


**MOTOROLA**


TESTING CERT # 2518.01

**FCC ID: ABZ99FT5010**  
**DECLARATION OF COMPLIANCE: MPE ASSESSMENT**

**Enterprise Mobility Solutions (EMS)**  
**EME Test Laboratory**  
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**Date of Report:** 7/21/2009  
**Report Revision:** O  
**Report ID:** SR7403\_MPE  
 rpt\_XPR4380/4580\_8/900\_  
 Mobile\_Rev O\_090721.

**Responsible Engineer:** Kim Uong (Principal Staff EME Test Engineer)  
**Report Author:** Kim Uong (Principal Staff EME Test Engineer)  
**Date/s Tested:** 7/2/09 – 7/9/09  
**Manufacturer/Location:** Penang, Malaysia  
**Date submitted for test:** 5/28/09  
**DUT Description:** Dual Band, 800 and 900 MHz radio with internal GPS using a mid-tier control head and a mini-U connector. Power for 800 band is 10W to 35W. Power for 900 band is 10W to 30W. Power for 901-902MHz and 940-941MHz is limited to 7W ERP.

**Test TX mode(s):** CW  
**Max. Power output:** 42W (800), 36W (900), 9W for 901-902MHz and 940-941MHz  
**TX Frequency Bands:** 806-824MHz; 851-869MHz; 896-901MHz; 935-940MHz; 901-902MHz; 940-941MHz

**Signaling type:** CW using FM, 2:1 TDMA using 4FSK, and C4FM  
**Model(s) Tested** PMUF1398A  
**Model(s) Certified:** PMUF1398A  
**Serial Number(s):** 038TKJ2179 (806-824MHz; 851-869MHz)  
 038TKJ2090 (896-901MHz; 935-940MHz)  
 038TKJ2043 (901-902MHz; 940-941MHz)

**Classification:** Occupational Controlled (Operator);  
 General Population/Uncontrolled (Passengers/Bystanders)  
**Rule Part(s):** 90


**Approved Accessories:**
**Antenna(s):**

HAF4019A: 806-941MHz, 1/4 wave, 1.5dBi gain.  
 HAF4022A: 806-941MHz, 1/4 wave stubby, 1.7dBi gain.  
 HAF4020A: 806-941MHz, base loaded 1/2 wave, 1.2dBi gain.  
 HAF4023A: 806-941MHz, base loaded 1/2 wave, 2dBi gain.  
 HAF4025A (includes antenna HAF4019A w/ mount base 0180350A76): 806-941MHz, 1/4 wave, 1.5dBi gain.  
 HAF4013A (includes antenna HAF4022A w/ mount base 0180350A76): 806-941MHz, 1/4 wave stubby, 1.7dBi gain.  
 HAF4026A (includes antenna HAF4020A w/ mount base 0180350A76): 806-941MHz, base loaded 1/2 wave, 1.2dBi gain.  
 HAF4027A (includes antenna HAF4023A w/ mount base 0180350A76): 806-941MHz, base loaded 1/2 wave, 2dBi gain.  
 HAF4029A (includes antenna HAF4019A w/ combination GPS mount base PMAN4004B): 806-941MHz 1/4 wave, 1.5dBi gain.  
 HAF4032A (includes antenna HAF4022A w/ combination GPS mount base PMAN4004B): 806-941MHz, 1/4 wave stubby, 1.7dBi gain.  
 HAF4030A (includes antenna HAF4020A w/ combination GPS mount base PMAN4004B): 806-941MHz, base loaded 1/2 wave, 1.2dBi gain.  
 HAF4033A (includes antenna HAF4023A w/ combination GPS mount base PMAN4004B): 806-941MHz, base loaded 1/2 wave, 2dBi gain.

**Final RF Exposure Results:**

**Internal - Max Calculated Power Density = 0.33 mW/cm<sup>2</sup>**  
**External – Max Calculated Power Density = 0.15 mW/cm<sup>2</sup>**

Based on the information and the testing results provided herein, the undersigned certifies that when used as stated in the operating instructions supplied, said product complies with the national and international reference standards and guidelines listed in section 3.0 of this report. This report shall not be reproduced without written approval from an officially designated representative of the Motorola EME Laboratory.

I attest to the accuracy of the data and assume full responsibility for the completeness of these measurements.

This reporting format is consistent with the suggested guidelines of the TIA TSB-159 April 2006

The results and statements contained in this report pertain only to the device(s) evaluated herein.

*Signature on file*  
 Deanna Zakharia  
 EMS EME Lab Senior Resource Manager,  
 Laboratory Director,

Approval Date: 7/21/09

Certification Date: 7/21/09

Certification No.: L1090728P

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## REVISION HISTORY

| Date     | Revision | Comments                |
|----------|----------|-------------------------|
| 07/21/09 | O        | Initial release results |
|          |          |                         |

## 1.0 Product and System Description

FCC ID ABZ99FT5010, model PMUF1398A is a mobile transceiver that utilizes both analog and digital two-way radio communications and also includes GPS capability. The modulation scheme used for analog is Frequency Modulation (FM). The modulation scheme used for digital is 4 Level Frequency Shift Keying (4FSK), 2:1 Time Division Multiple Access (TDMA) and C4FM (Continuous 4 level FM) digital modulation. TDMA is used to allocate portions of the RF signal by dividing time into two slots. Transmission from a unit or base station is accommodated in time-slot lengths of 30 milliseconds and frame lengths of 60 milliseconds. The C4FM modulation sends 4800 symbols/sec with each symbol conveying 2 bits of information for a data rate of 9600 bps.

The intended use of the radio is Push-To-Talk (PTT) while the device is properly installed in a vehicle with an external antenna mounted at the center of the roof or trunk.

This device will be marketed to and used by employees solely for work-related operations, such as public safety agencies, e.g. police, fire and emergency medical. User training is the responsibility of these agencies, who can be expected to employ the usage instructions, safety information and operational cautions set forth in the user's manual, instructional sessions or other means. Motorola also makes available to its customers training classes on the proper use of two-way radios and wireless data devices.

This device is classified as Occupational/Controlled Exposure. However, in accordance with FCC requirements, the Passengers inside the vehicle and the Bystanders external to the vehicle are evaluated to the General Population/Uncontrolled Exposure Limits. The transmit frequency bands, rated power and maximum conducted power are listed in the table below:

| Transmit Frequency | Rated power | Maximum conducted power |
|--------------------|-------------|-------------------------|
| 806-824MHz         | 10-35 Watts | 42 Watts                |
| 851-869MHz         | 10-35 Watts | 42 Watts                |
| 896-901MHz         | 10-30 Watts | 36 Watts                |
| 935-940MHz         | 10-30 Watts | 36 Watts                |
| 901-902MHz         | 7 Watts     | 9 Watts                 |
| 940-941MHz         | 7 Watts     | 9 Watts                 |

(Note that "Bystanders" as used herein mean people other than operator)

## 2.0 Additional Options and Accessories

All Antennas are listed on front cover page.

Other:

PMAN4004B: combination GPS mount base.

0180350A76: thru hole mount base.

0180355A80: magnetic mount base.

### 3.0 Measurement and Limit Standards

Measurements were performed according to the recommended guidelines in IEEE/ANSI C95.3-2002 and compared to FCC Limits Per 47 CFR 2.1091 (d), to the ICNIRP (1998), IEEE C95.1-1999 Edition, and IEEE C95.1-2005 Edition for General Population/Uncontrolled RF Exposure Limits for Bystander/Passenger, and Occupational/Controlled RF Exposure Limits for Operator.

For frequencies ranging from 806-941 MHz, the MPE (Maximum Permissible Exposure) limit to electromagnetic energy in equivalent plane wave free-space power density is 0.54–0.63mW/cm<sup>2</sup> for General Population/Uncontrolled using the formula  $f/1500$ , and 2.69–3.14mW/cm<sup>2</sup> for Occupational/ Controlled using the formula  $f/300$  for frequency range of 300-1500MHz per FCC RF exposure limits,

For frequencies ranging from 806-941 MHz, the MPE (Maximum Permissible Exposure) limit to electromagnetic energy in equivalent plane wave free-space power density is 0.40–0.47mW/cm<sup>2</sup> for General Population/Uncontrolled using the formula  $f/2000$ , and 2.02–2.35mW/cm<sup>2</sup> using the formula  $f/400$  for frequency range of 400-2000MHz per IEEE C95.1-2005 RF exposure limits.

### 4.0 Measurement System Uncertainty Levels

#### Uncertainty Budget for Near Field Probe Measurements

|                                                        | Tol.<br>(± %) | Prob.<br>Dist. | Divisor | $u_i$<br>(± %) | $v_i$ |
|--------------------------------------------------------|---------------|----------------|---------|----------------|-------|
| <b>Measurement System</b>                              |               |                |         |                |       |
| Probe Calibration                                      | 6.0           | N              | 1.00    | 6.0            | ∞     |
| Survey Meter Calibration                               | 3.0           | N              | 1.00    | 3.0            | ∞     |
| Hemispherical Isotropy                                 | 8.0           | R              | 1.73    | 4.6            | ∞     |
| Linearity                                              | 5.0           | R              | 1.73    | 2.9            | ∞     |
| Pulse Response                                         | 1.0           | R              | 1.73    | 0.6            | ∞     |
| RF Ambient Noise                                       | 3.0           | R              | 1.73    | 1.7            | ∞     |
| RF Reflections                                         | 8.0           | R              | 1.73    | 4.6            | ∞     |
| Probe Positioning                                      | 10.0          | R              | 1.73    | 5.8            | ∞     |
| <b>Test sample Related</b>                             |               |                |         |                |       |
| Antenna Positioning                                    | 3.0           | N              | 1.00    | 3.0            | ∞     |
| Power drift                                            | 5.0           | R              | 1.73    | 2.9            | ∞     |
| <b>Combined Standard</b>                               |               | RSS            |         | 12.2           | ∞     |
| <b>Expanded Uncertainty<br/>(95% CONFIDENCE LEVEL)</b> |               | $k=2$          |         | 24             |       |

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## 5.0 Method of Measurement

### 5.1 EME measurements made with trunk mounted antenna(s) (Refer to APPENDIX A for antenna location and test distances)

#### 5.1.1 External/Bystander vehicle EME measurement (Antenna mounted at trunk center)

MPE measurements for Bystander conditions are determined by taking the average of (10) measurements in a 2m vertical line for each of the (3) test locations indicated in appendix A with 20cm increments at the following test distances from the antennas under test for each of the rated power and band indicated in the table below:

| Rated Power (Tx Freq band)           | Test Distance from the antenna |
|--------------------------------------|--------------------------------|
| 35 Watts<br>(806-824MHz, 851-869MHz) | 60cm                           |
| 30 Watts<br>(896-901MHz, 935-940MHz) | 60cm                           |
| 7 Watts<br>(901-902MHz, 940-941MHz)  | 20cm                           |

The measurement probe is positioned orthogonal to antenna (typically parallel to ground with a vertically mounted antenna) and aimed directly at the antenna's axis. These measurements are representative of persons other than the operator standing next to the vehicle.

Each of the offered antennas mounted at the center of the trunk were assessed at the rear of the vehicle while maintaining a twenty (20) centimeter separation distance between the probe sensor and vehicle body. The antenna with highest MPE result was then tested at a 45° radial at the corner of the trunk, and 90° radial at the side of the trunk.

For the test vehicle identified in section 7.0, the antenna to probe sensor separation distance is 62cm for rated conducted power between 30-35W and 35.5cm for rated conducted power of 7W (directly behind vehicle), 104cm (45 degree radial) and 110.5cm (90 degree radial).

**Note:** The distance from the trunk-mounted antenna to the edge of the vehicle is 42cm at the rated conducted power between 30-35W and 15.5cm at the rated conducted power of 7W and the distance from the edge of the vehicle's trunk to the Survey Probe Sensor is 20cm.

#### 5.1.2 Internal/Passenger vehicle EME measurement (Antenna mounted at trunk center)

MPE measurements for Passenger conditions are determined by taking the average of the (3) measurements (Head, Chest, and Lower Trunk) inside the vehicle for both the front and back seats. The measurement probe is positioned orthogonal to antenna (typically parallel to ground with a vertically mounted antenna), and aimed directly at the antenna's axis while the antenna is at 85cm from the back of the backseat Passenger's head. These

measurements are representative of operator and Passengers sitting in the front and back seat of the vehicle.

## 5.2 EME measurements made with roof mounted antenna(s) (Refer to APPENDIX A for antenna location and test distances)

### 5.2.1 External/Bystander vehicle EME measurement (Antenna mounted at roof center)

MPE measurements for Bystander conditions are determined by taking the average of (10) measurements in a 2m vertical line for the test location indicated in APPENDIX A with 20cm increments at the following test distances from the antennas under test for each of the rated power and band indicated in the table below:

| Rated Power (Tx Freq band)          | Test Distance from the antenna |
|-------------------------------------|--------------------------------|
| 35Watts<br>(806-824MHz, 851-869MHz) | 60cm                           |
| 30Watts<br>(896-901MHz, 935-940MHz) | 60cm                           |
| 7 Watts<br>(901-902MHz, 940-941MHz) | 20cm                           |

The measurement probe is positioned orthogonal to antenna (typically parallel to ground with a vertically mounted antenna) and aimed directly at the antenna's axis. These measurements are representative of persons other than the operator standing next to the vehicle.

**Note:** Actual test distance was approximately 117cm from antenna to probe element (97cm from antenna to edge of car door; 20cm vertical test line to car door); this is the closest distance that can be achieved to an antenna mounted to the center of the vehicle used for MPE compliance assessment.

### 5.2.2 Internal/Passenger vehicle EME measurement (Antenna mounted at roof center)

MPE measurements for Passenger conditions are determined by taking the average of the (3) measurements (Head, Chest, and Lower Trunk) inside the vehicle for both the front and back seats. The measurement probe is positioned orthogonal to antenna (typically parallel to ground with a vertically mounted antenna) and aimed directly at the antenna's axis. These measurements are representative of operator and Passengers sitting in the front and back seat of the vehicle.

## 6.0 Test Site

The test site is the Motorola open area test site located at 8000 W. Sunrise Blvd., Plantation, FL. 33322.

## 7.0 Measurement System/Equipment

| Equipment Type                                    | Model #                               | SN               | Calibration Date |
|---------------------------------------------------|---------------------------------------|------------------|------------------|
| Automobile                                        | 2003 Ford Crown Victoria, 4-Door      |                  |                  |
| Survey Meter /<br>Probe: E-Field (Electric Field) | ETS Model HI-2200 /<br>ETS Model E100 | 86887 /<br>83370 | 12/4/08          |

ETS equipments measured for E-field is in mW/cm<sup>2</sup> for E-field.

## 8.0 DUT Output Power

Power density measurements were performed with the test frequencies and associated power levels presented in the table below.

| Radio SN   | Test Frequencies (MHz) | Measured Initial Power (W) |
|------------|------------------------|----------------------------|
| 038TKJ2179 | 806.0125               | 41.9                       |
|            | 815.0125               | 41.9                       |
|            | 823.9875               | 41.7                       |
|            | 851.0125               | 42.0                       |
|            | 860.0125               | 40.6                       |
|            | 868.9875               | 39.9                       |
| 038TKJ2090 | 896.0125               | 35.0                       |
|            | 898.0125               | 35.3                       |
|            | 900.9875               | 35.1                       |
|            | 935.0125               | 35.6                       |
|            | 937.0125               | 35.9                       |
|            | 939.9875               | 36.0                       |
| 038TKJ0243 | 901.525                | 9.0                        |
|            | 940.5125               | 8.8                        |

## 9.0 Test Set-Up Description

The antennas HAF4029A, HAF4032A, HAF4030A, HAF4033A are the combination kit # of the GPS mounting base PMAN4004B and antenna HAF4019A, HAF4022A, HAF4020A, and HAF4023A, respectively; and the antennas HAF4025A, HAF4013A, HAF4026A, HAF4027A are the combination kit # of the thru hole mounting base 0180350A76 and antenna HAF4019A, HAF4022A, HAF4020A, and HAF4023A, respectively. Therefore, only the antennas HAF4019A, HAF4020A, HAF4022A, and HAF4023A were assessed with this device while mounted, using the magnetic mount base 0180355A80, at the center of the roof and the trunk of the test vehicle.

The antennas HAF4019A, HAF4022A, HAF4020A, and HAF4023A were assessed at the 806-824MHz, 851-869MHz, 896-901MHz, 935-940MHz, 901-902MHz, and 940-941MHz frequency bands. However, per FCC requirement that the E.R.P. power for the frequency band 901-902MHz and 940-941MHz can not be exceed the 7Watts, therefore only the data for antenna HAF4019A is indicated in this report for the 901-902MHz and 940-941MHz bands.

Assessments were performed with DUT (Device Under Test) installed on a test vehicle, while engine was at idle, at the specified distances and test locations indicated in sections 5.0, 10.0, and the APPENDIX A.

## 10.0 Test Results Summary:

The tables below summarized the MPE measurement results for each test configuration: antenna (model and description), antenna gain, TX frequency, maximum output power, initial power, E/H field measurements, probe frequency cal factor, test positions (BS-Bystander, PB-Passenger Back, PF-Passenger Front), average over body results, calculated power density results, max calculated power density results, % of the applicable specification limit, and applicable IEEE/FCC specification limits.

MPE results for this mobile radio are based on 50% duty cycle which is in accordance with the User Manual instructions.

Below is an explanation of how the MPE results are calculated.

External to vehicle (Bystander) -10 measurements are averaged over the body (*body\_avg*).

Internal to vehicle (Passengers) - 3 measurements are averaged over the body (*body\_avg*).

The Average over Body test methodology is consistent with IEEE/ANSI C95.3-2002 guidelines.

Therefore;

$$Pwr\_density\_calc = body\_avg * (probe\_frequency\_cal\_factor)^2 * duty\_cycle$$

$$Pwr\_density\_max\_calc = pwr\_density\_calc * \frac{max\_output\_power}{initial\_output\_power}$$

*Note1: For initial output power > max\_output\_power; max\_output\_power / initial output power = 1*

*Note2: The probe frequency cal factors used for MPE evaluation of this product are based on the worse case.*

*Note 3: The calibration certificate's frequency cal factors were determined by measuring V/m for E-field probe. The results presented herein are power density (mW/cm<sup>2</sup>) and therefore the cal factors were squared as indicated in the formula above.*

Table 1: E-field - MPE assessment data with antenna HAF4019A mounted on the roof

| Ant Loc.                               | Ant. Model/<br>Desc.     | Ant.<br>Gain<br>(dBi) | Tx Freq<br>(MHz) | Max<br>Pwr<br>(W) | Initial<br>Pwr<br>(W) | E/H<br>Field | Probe<br>Cal.<br>Factor | Test Pos. | Avg. over<br>Body<br>(mW/<br>cm2) | Calc.<br>P.D.<br>(mW/<br>cm2) | Max Calc.<br>P.D. (mW/<br>cm2) | % To<br>FCC<br>Spec<br>Limit | FCC<br>Spec<br>Limit | ICNIRP<br>Spec<br>limit |
|----------------------------------------|--------------------------|-----------------------|------------------|-------------------|-----------------------|--------------|-------------------------|-----------|-----------------------------------|-------------------------------|--------------------------------|------------------------------|----------------------|-------------------------|
| <b>Tx Frequency Band – 806-824 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 806.0125         | 42.0              | 41.9                  | E            | 1.22                    | External  | 0.056                             | 0.034                         | 0.034                          | 6                            | 0.54                 | 0.40                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 806.0125         | 42.0              | 41.9                  | E            | 1.22                    | Internal  | 0.023                             | 0.014                         | 0.014                          | 3                            | 0.54                 | 0.40                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | External  | 0.057                             | 0.034                         | 0.035                          | 6                            | 0.54                 | 0.41                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | Internal  | 0.037                             | 0.022                         | 0.022                          | 4                            | 0.54                 | 0.41                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 823.9875         | 42.0              | 41.7                  | E            | 1.2                     | External  | 0.060                             | 0.036                         | 0.036                          | 7                            | 0.55                 | 0.41                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 823.9875         | 42.0              | 41.7                  | E            | 1.2                     | Internal  | 0.033                             | 0.020                         | 0.020                          | 4                            | 0.55                 | 0.41                    |
| <b>Tx Frequency Band – 851-869 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 851.0125         | 42.0              | 41.0                  | E            | 1.17                    | External  | 0.074                             | 0.043                         | 0.044                          | 8                            | 0.57                 | 0.43                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 851.0125         | 42.0              | 41.0                  | E            | 1.17                    | Internal  | 0.023                             | 0.014                         | 0.014                          | 2                            | 0.57                 | 0.43                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 860.0125         | 42.0              | 40.6                  | E            | 1.15                    | External  | 0.061                             | 0.035                         | 0.036                          | 6                            | 0.57                 | 0.43                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 860.0125         | 42.0              | 40.6                  | E            | 1.15                    | Internal  | 0.030                             | 0.017                         | 0.018                          | 3                            | 0.57                 | 0.43                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 868.9875         | 42.0              | 39.9                  | E            | 1.14                    | External  | 0.071                             | 0.040                         | 0.043                          | 7                            | 0.58                 | 0.43                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 868.9875         | 42.0              | 39.9                  | E            | 1.14                    | Internal  | 0.033                             | 0.019                         | 0.020                          | 3                            | 0.58                 | 0.43                    |
| <b>Tx Frequency Band – 896-901 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 896.0125         | 36.0              | 35.0                  | E            | 1.11                    | External  | 0.070                             | 0.039                         | 0.040                          | 7                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 896.0125         | 36.0              | 35.0                  | E            | 1.11                    | Internal  | 0.023                             | 0.013                         | 0.013                          | 2                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 898.0125         | 36.0              | 35.3                  | E            | 1.11                    | External  | 0.067                             | 0.037                         | 0.038                          | 6                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 898.0125         | 36.0              | 35.3                  | E            | 1.11                    | Internal  | 0.023                             | 0.013                         | 0.013                          | 2                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 900.9875         | 36.0              | 35.1                  | E            | 1.1                     | External  | 0.063                             | 0.035                         | 0.036                          | 6                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 900.9875         | 36.0              | 35.1                  | E            | 1.1                     | Internal  | 0.020                             | 0.011                         | 0.011                          | 2                            | 0.60                 | 0.45                    |
| <b>Tx Frequency Band – 935-940 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 935.0125         | 36.0              | 35.6                  | E            | 1.08                    | External  | 0.058                             | 0.031                         | 0.032                          | 5                            | 0.62                 | 0.47                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 935.0125         | 36.0              | 35.6                  | E            | 1.08                    | Internal  | 0.010                             | 0.005                         | 0.005                          | 1                            | 0.62                 | 0.47                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 937.0125         | 36.0              | 35.9                  | E            | 1.08                    | External  | 0.056                             | 0.030                         | 0.030                          | 5                            | 0.62                 | 0.47                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 937.0125         | 36.0              | 35.9                  | E            | 1.08                    | Internal  | 0.013                             | 0.007                         | 0.007                          | 1                            | 0.62                 | 0.47                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 939.9875         | 36.0              | 36.0                  | E            | 1.08                    | External  | 0.049                             | 0.026                         | 0.026                          | 4                            | 0.63                 | 0.47                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 939.9875         | 36.0              | 36.0                  | E            | 1.08                    | Internal  | 0.010                             | 0.005                         | 0.005                          | 1                            | 0.63                 | 0.47                    |
| <b>Tx Frequency Band – 901-902 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 901.5125         | 9.0               | 9.0                   | E            | 1.1                     | External  | 0.012                             | 0.007                         | 0.007                          | 1                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 901.5125         | 9.0               | 9.0                   | E            | 1.1                     | Internal  | 0.000                             | 0.000                         | 0.000                          | 0                            | 0.60                 | 0.45                    |
| <b>Tx Frequency Band – 940-941 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 940.5125         | 9.0               | 8.8                   | E            | 1.08                    | External  | 0.010                             | 0.005                         | 0.006                          | 1                            | 0.63                 | 0.47                    |
| Roof                                   | HAF4019A<br>(806-941MHz) | 1.5                   | 940.5125         | 9.0               | 8.8                   | E            | 1.08                    | Internal  | 0.000                             | 0.000                         | 0.000                          | 0                            | 0.63                 | 0.47                    |

Table 2: E-field - MPE assessment data with antenna HAF4020A mounted on the roof

| Ant Loc.                               | Ant. Model/<br>Desc.     | Ant.<br>Gain<br>(dBi) | Tx Freq<br>(MHz) | Max<br>Pwr<br>(W) | Initial<br>Pwr<br>(W) | E/H<br>Field | Probe<br>Cal.<br>Factor | Test Pos. | Avg. over<br>Body<br>(mW/<br>cm <sup>2</sup> ) | Calc.<br>P.D.<br>(mW/<br>cm <sup>2</sup> ) | Max Calc.<br>P.D.<br>(mW/<br>cm <sup>2</sup> ) | % To<br>FCC<br>Spec<br>Limit | FCC<br>Spec<br>Limit | ICNIRP<br>Spec<br>limit |
|----------------------------------------|--------------------------|-----------------------|------------------|-------------------|-----------------------|--------------|-------------------------|-----------|------------------------------------------------|--------------------------------------------|------------------------------------------------|------------------------------|----------------------|-------------------------|
| <b>Tx Frequency Band – 806-824 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                                |                                            |                                                |                              |                      |                         |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 806.0125         | 42.0              | 41.9                  | E            | 1.22                    | External  | 0.087                                          | 0.053                                      | 0.053                                          | 10                           | 0.54                 | 0.40                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 806.0125         | 42.0              | 41.9                  | E            | 1.22                    | Internal  | 0.057                                          | 0.035                                      | 0.035                                          | 6                            | 0.54                 | 0.40                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | External  | 0.102                                          | 0.062                                      | 0.062                                          | 11                           | 0.54                 | 0.41                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | Internal  | 0.053                                          | 0.032                                      | 0.032                                          | 6                            | 0.54                 | 0.41                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 823.9875         | 42.0              | 41.7                  | E            | 1.2                     | External  | 0.082                                          | 0.049                                      | 0.050                                          | 9                            | 0.55                 | 0.41                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 823.9875         | 42.0              | 41.7                  | E            | 1.2                     | Internal  | 0.053                                          | 0.032                                      | 0.032                                          | 6                            | 0.55                 | 0.41                    |
| <b>Tx Frequency Band – 851-869 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                                |                                            |                                                |                              |                      |                         |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 851.0125         | 42.0              | 41.0                  | E            | 1.17                    | External  | 0.089                                          | 0.052                                      | 0.053                                          | 9                            | 0.57                 | 0.43                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 851.0125         | 42.0              | 41.0                  | E            | 1.17                    | Internal  | 0.040                                          | 0.023                                      | 0.024                                          | 4                            | 0.57                 | 0.43                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 860.0125         | 42.0              | 40.6                  | E            | 1.15                    | External  | 0.086                                          | 0.049                                      | 0.051                                          | 9                            | 0.57                 | 0.43                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 860.0125         | 42.0              | 40.6                  | E            | 1.15                    | Internal  | 0.043                                          | 0.025                                      | 0.026                                          | 4                            | 0.57                 | 0.43                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 868.9875         | 42.0              | 39.9                  | E            | 1.14                    | External  | 0.086                                          | 0.049                                      | 0.052                                          | 9                            | 0.58                 | 0.43                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 868.9875         | 42.0              | 39.9                  | E            | 1.14                    | Internal  | 0.043                                          | 0.025                                      | 0.026                                          | 4                            | 0.58                 | 0.43                    |
| <b>Tx Frequency Band – 896-901 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                                |                                            |                                                |                              |                      |                         |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 896.0125         | 36.0              | 35.0                  | E            | 1.11                    | External  | 0.095                                          | 0.053                                      | 0.054                                          | 9                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 896.0125         | 36.0              | 35.0                  | E            | 1.11                    | Internal  | 0.043                                          | 0.024                                      | 0.025                                          | 4                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 898.0125         | 36.0              | 35.3                  | E            | 1.11                    | External  | 0.089                                          | 0.049                                      | 0.050                                          | 8                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 898.0125         | 36.0              | 35.3                  | E            | 1.11                    | Internal  | 0.040                                          | 0.022                                      | 0.023                                          | 4                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 900.9875         | 36.0              | 35.1                  | E            | 1.1                     | External  | 0.085                                          | 0.047                                      | 0.048                                          | 8                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 900.9875         | 36.0              | 35.1                  | E            | 1.1                     | Internal  | 0.043                                          | 0.024                                      | 0.024                                          | 4                            | 0.60                 | 0.45                    |
| <b>Tx Frequency Band – 935-940 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                                |                                            |                                                |                              |                      |                         |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 935.0125         | 36.0              | 35.6                  | E            | 1.08                    | External  | 0.081                                          | 0.044                                      | 0.044                                          | 7                            | 0.62                 | 0.47                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 935.0125         | 36.0              | 35.6                  | E            | 1.08                    | Internal  | 0.033                                          | 0.018                                      | 0.018                                          | 3                            | 0.62                 | 0.47                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 937.0125         | 36.0              | 35.9                  | E            | 1.08                    | External  | 0.082                                          | 0.044                                      | 0.044                                          | 7                            | 0.62                 | 0.47                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 937.0125         | 36.0              | 35.9                  | E            | 1.08                    | Internal  | 0.027                                          | 0.014                                      | 0.014                                          | 2                            | 0.62                 | 0.47                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 939.9875         | 36.0              | 36.0                  | E            | 1.08                    | External  | 0.078                                          | 0.042                                      | 0.042                                          | 7                            | 0.63                 | 0.47                    |
| Roof                                   | HAF4020A<br>(806-941MHz) | 1.2                   | 939.9875         | 36.0              | 36.0                  | E            | 1.08                    | Internal  | 0.023                                          | 0.013                                      | 0.013                                          | 2                            | 0.63                 | 0.47                    |

Table 3: E-field - MPE assessment data with antenna HAF4022A mounted on the roof

| Ant Loc.                               | Ant. Model/<br>Desc.     | Ant.<br>Gain<br>(dBi) | Tx Freq<br>(MHz) | Max<br>Pwr<br>(W) | Initial<br>Pwr<br>(W) | E/H<br>Field | Probe<br>Cal.<br>Factor | Test Pos. | Avg. over<br>Body<br>(mW/<br>cm2) | Calc.<br>P.D.<br>(mW/<br>cm2) | Max Calc.<br>P.D. (mW/<br>cm2) | % To<br>FCC<br>Spec<br>Limit | FCC<br>Spec<br>Limit | ICNIRP<br>Spec<br>limit |
|----------------------------------------|--------------------------|-----------------------|------------------|-------------------|-----------------------|--------------|-------------------------|-----------|-----------------------------------|-------------------------------|--------------------------------|------------------------------|----------------------|-------------------------|
| <b>Tx Frequency Band – 806-824 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 806.0125         | 42.0              | 41.9                  | E            | 1.22                    | External  | 0.067                             | 0.041                         | 0.041                          | 8                            | 0.54                 | 0.40                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 806.0125         | 42.0              | 41.9                  | E            | 1.22                    | Internal  | 0.033                             | 0.020                         | 0.020                          | 4                            | 0.54                 | 0.40                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | External  | 0.073                             | 0.044                         | 0.044                          | 8                            | 0.54                 | 0.41                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | Internal  | 0.040                             | 0.024                         | 0.024                          | 4                            | 0.54                 | 0.41                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 823.9875         | 42.0              | 41.7                  | E            | 1.2                     | External  | 0.070                             | 0.042                         | 0.042                          | 8                            | 0.55                 | 0.41                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 823.9875         | 42.0              | 41.7                  | E            | 1.2                     | Internal  | 0.020                             | 0.012                         | 0.012                          | 2                            | 0.55                 | 0.41                    |
| <b>Tx Frequency Band – 851-869 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 851.0125         | 42.0              | 41.0                  | E            | 1.17                    | External  | 0.070                             | 0.041                         | 0.042                          | 7                            | 0.57                 | 0.43                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 851.0125         | 42.0              | 41.0                  | E            | 1.17                    | Internal  | 0.030                             | 0.018                         | 0.018                          | 3                            | 0.57                 | 0.43                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 860.0125         | 42.0              | 40.6                  | E            | 1.15                    | External  | 0.062                             | 0.036                         | 0.037                          | 6                            | 0.57                 | 0.43                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 860.0125         | 42.0              | 40.6                  | E            | 1.15                    | Internal  | 0.027                             | 0.015                         | 0.016                          | 3                            | 0.57                 | 0.43                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 868.9875         | 42.0              | 39.9                  | E            | 1.14                    | External  | 0.059                             | 0.034                         | 0.035                          | 6                            | 0.58                 | 0.43                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 868.9875         | 42.0              | 39.9                  | E            | 1.14                    | Internal  | 0.023                             | 0.013                         | 0.014                          | 2                            | 0.58                 | 0.43                    |
| <b>Tx Frequency Band – 896-901 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 896.0125         | 36.0              | 35.0                  | E            | 1.11                    | External  | 0.059                             | 0.033                         | 0.034                          | 6                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 896.0125         | 36.0              | 35.0                  | E            | 1.11                    | Internal  | 0.017                             | 0.009                         | 0.010                          | 2                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 898.0125         | 36.0              | 35.3                  | E            | 1.11                    | External  | 0.058                             | 0.032                         | 0.033                          | 5                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 898.0125         | 36.0              | 35.3                  | E            | 1.11                    | Internal  | 0.020                             | 0.011                         | 0.011                          | 2                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 900.9875         | 36.0              | 35.1                  | E            | 1.1                     | External  | 0.049                             | 0.027                         | 0.028                          | 5                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 900.9875         | 36.0              | 35.1                  | E            | 1.1                     | Internal  | 0.013                             | 0.007                         | 0.008                          | 1                            | 0.60                 | 0.45                    |
| <b>Tx Frequency Band – 935-940 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 935.0125         | 36.0              | 35.6                  | E            | 1.08                    | External  | 0.048                             | 0.026                         | 0.026                          | 4                            | 0.62                 | 0.47                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 935.0125         | 36.0              | 35.6                  | E            | 1.08                    | Internal  | 0.013                             | 0.007                         | 0.007                          | 1                            | 0.62                 | 0.47                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 937.0125         | 36.0              | 35.9                  | E            | 1.08                    | External  | 0.040                             | 0.022                         | 0.022                          | 3                            | 0.62                 | 0.47                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 937.0125         | 36.0              | 35.9                  | E            | 1.08                    | Internal  | 0.010                             | 0.005                         | 0.005                          | 1                            | 0.62                 | 0.47                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 939.9875         | 36.0              | 36.0                  | E            | 1.08                    | External  | 0.040                             | 0.022                         | 0.022                          | 3                            | 0.63                 | 0.47                    |
| Roof                                   | HAF4022A<br>(806-941MHz) | 1.7                   | 939.9875         | 36.0              | 36.0                  | E            | 1.08                    | Internal  | 0.010                             | 0.005                         | 0.005                          | 1                            | 0.63                 | 0.47                    |

Table 4: E-field - MPE assessment data with antenna HAF4023A mounted on the roof

| Ant Loc.                               | Ant. Model/<br>Desc.     | Ant.<br>Gain<br>(dBi) | Tx Freq<br>(MHz) | Max<br>Pwr<br>(W) | Initial<br>Pwr<br>(W) | E/H<br>Field | Probe<br>Cal.<br>Factor | Test Pos. | Avg. over<br>Body<br>(mW/<br>cm2) | Calc.<br>P.D.<br>(mW/<br>cm2) | Max Calc.<br>P.D. (mW/<br>cm2) | % To<br>FCC<br>Spec<br>Limit | FCC<br>Spec<br>Limit | ICNIRP<br>Spec<br>limit |
|----------------------------------------|--------------------------|-----------------------|------------------|-------------------|-----------------------|--------------|-------------------------|-----------|-----------------------------------|-------------------------------|--------------------------------|------------------------------|----------------------|-------------------------|
| <b>Tx Frequency Band – 806-824 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 806.0125         | 42.0              | 41.9                  | E            | 1.22                    | External  | 0.095                             | 0.058                         | 0.058                          | 11                           | 0.54                 | 0.40                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 806.0125         | 42.0              | 41.9                  | E            | 1.22                    | Internal  | 0.043                             | 0.026                         | 0.026                          | 5                            | 0.54                 | 0.40                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | External  | 0.104                             | 0.063                         | 0.063                          | 12                           | 0.54                 | 0.41                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | Internal  | 0.033                             | 0.020                         | 0.020                          | 4                            | 0.54                 | 0.41                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 823.9875         | 42.0              | 41.7                  | E            | 1.2                     | External  | 0.093                             | 0.056                         | 0.056                          | 10                           | 0.55                 | 0.41                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 823.9875         | 42.0              | 41.7                  | E            | 1.2                     | Internal  | 0.033                             | 0.020                         | 0.020                          | 4                            | 0.55                 | 0.41                    |
| <b>Tx Frequency Band – 851-869 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 851.0125         | 42.0              | 41.0                  | E            | 1.17                    | External  | 0.094                             | 0.055                         | 0.056                          | 10                           | 0.57                 | 0.43                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 851.0125         | 42.0              | 41.0                  | E            | 1.17                    | Internal  | 0.040                             | 0.023                         | 0.024                          | 4                            | 0.57                 | 0.43                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 860.0125         | 42.0              | 40.6                  | E            | 1.15                    | External  | 0.090                             | 0.052                         | 0.054                          | 9                            | 0.57                 | 0.43                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 860.0125         | 42.0              | 40.6                  | E            | 1.15                    | Internal  | 0.040                             | 0.023                         | 0.024                          | 4                            | 0.57                 | 0.43                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 868.9875         | 42.0              | 39.9                  | E            | 1.14                    | External  | 0.088                             | 0.050                         | 0.053                          | 9                            | 0.58                 | 0.43                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 868.9875         | 42.0              | 39.9                  | E            | 1.14                    | Internal  | 0.033                             | 0.019                         | 0.020                          | 3                            | 0.58                 | 0.43                    |
| <b>Tx Frequency Band – 896-901 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 896.0125         | 36.0              | 35.0                  | E            | 1.11                    | External  | 0.095                             | 0.053                         | 0.054                          | 9                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 896.0125         | 36.0              | 35.0                  | E            | 1.11                    | Internal  | 0.030                             | 0.017                         | 0.017                          | 3                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 898.0125         | 36.0              | 35.3                  | E            | 1.11                    | External  | 0.089                             | 0.049                         | 0.050                          | 8                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 898.0125         | 36.0              | 35.3                  | E            | 1.11                    | Internal  | 0.033                             | 0.019                         | 0.019                          | 3                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 900.9875         | 36.0              | 35.1                  | E            | 1.1                     | External  | 0.080                             | 0.044                         | 0.045                          | 8                            | 0.60                 | 0.45                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 900.9875         | 36.0              | 35.1                  | E            | 1.1                     | Internal  | 0.027                             | 0.015                         | 0.015                          | 3                            | 0.60                 | 0.45                    |
| <b>Tx Frequency Band – 935-940 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 935.0125         | 36.0              | 35.6                  | E            | 1.08                    | External  | 0.078                             | 0.042                         | 0.043                          | 7                            | 0.62                 | 0.47                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 935.0125         | 36.0              | 35.6                  | E            | 1.08                    | Internal  | 0.020                             | 0.011                         | 0.011                          | 2                            | 0.62                 | 0.47                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 937.0125         | 36.0              | 35.9                  | E            | 1.08                    | External  | 0.075                             | 0.041                         | 0.041                          | 7                            | 0.62                 | 0.47                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 937.0125         | 36.0              | 35.9                  | E            | 1.08                    | Internal  | 0.013                             | 0.007                         | 0.007                          | 1                            | 0.62                 | 0.47                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 939.9875         | 36.0              | 36.0                  | E            | 1.08                    | External  | 0.076                             | 0.041                         | 0.041                          | 7                            | 0.63                 | 0.47                    |
| Roof                                   | HAF4023A<br>(806-941MHz) | 2                     | 939.9875         | 36.0              | 36.0                  | E            | 1.08                    | Internal  | 0.017                             | 0.009                         | 0.009                          | 1                            | 0.63                 | 0.47                    |

Table 5: E-field - MPE assessment data with antenna HAF4019A mounted on the trunk

| Ant Loc.                               | Ant. Model/<br>Desc.     | Ant.<br>Gain<br>(dBi) | Tx Freq<br>(MHz) | Max<br>Pwr<br>(W) | Initial<br>Pwr<br>(W) | E/H<br>Field | Probe<br>Cal.<br>Factor | Test Pos. | Avg. over<br>Body<br>(mW/<br>cm2) | Calc.<br>P.D.<br>(mW/<br>cm2) | Max Calc.<br>P.D. (mW/<br>cm2) | % To<br>FCC<br>Spec<br>Limit | FCC<br>Spec<br>Limit | ICNIRP<br>Spec<br>limit |
|----------------------------------------|--------------------------|-----------------------|------------------|-------------------|-----------------------|--------------|-------------------------|-----------|-----------------------------------|-------------------------------|--------------------------------|------------------------------|----------------------|-------------------------|
| <b>Tx Frequency Band – 806-824 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 806.0125         | 42.0              | 41.9                  | E            | 1.22                    | External  | 0.191                             | 0.117                         | 0.117                          | 22                           | 0.54                 | 0.40                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 806.0125         | 42.0              | 41.9                  | E            | 1.22                    | Internal  | 0.163                             | 0.100                         | 0.100                          | 19                           | 0.54                 | 0.40                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | External  | 0.171                             | 0.103                         | 0.104                          | 19                           | 0.54                 | 0.41                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | Internal  | 0.137                             | 0.083                         | 0.083                          | 15                           | 0.54                 | 0.41                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 823.9875         | 42.0              | 41.7                  | E            | 1.2                     | External  | 0.183                             | 0.110                         | 0.111                          | 20                           | 0.55                 | 0.41                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 823.9875         | 42.0              | 41.7                  | E            | 1.2                     | Internal  | 0.177                             | 0.106                         | 0.107                          | 19                           | 0.55                 | 0.41                    |
| <b>Tx Frequency Band – 851-869 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 851.0125         | 42.0              | 41.0                  | E            | 1.17                    | External  | 0.200                             | 0.117                         | 0.120                          | 21                           | 0.57                 | 0.43                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 851.0125         | 42.0              | 41.0                  | E            | 1.17                    | Internal  | 0.187                             | 0.109                         | 0.112                          | 20                           | 0.57                 | 0.43                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 860.0125         | 42.0              | 40.6                  | E            | 1.15                    | External  | 0.172                             | 0.099                         | 0.102                          | 18                           | 0.57                 | 0.43                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 860.0125         | 42.0              | 40.6                  | E            | 1.15                    | Internal  | 0.137                             | 0.079                         | 0.081                          | 14                           | 0.57                 | 0.43                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 868.9875         | 42.0              | 39.9                  | E            | 1.14                    | External  | 0.220                             | 0.125                         | 0.132                          | 23                           | 0.58                 | 0.43                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 868.9875         | 42.0              | 39.9                  | E            | 1.14                    | Internal  | 0.200                             | 0.114                         | 0.120                          | 21                           | 0.58                 | 0.43                    |
| <b>Tx Frequency Band – 896-901 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 896.0125         | 36.0              | 35.0                  | E            | 1.11                    | External  | 0.244                             | 0.135                         | 0.139                          | 23                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 896.0125         | 36.0              | 35.0                  | E            | 1.11                    | Internal  | 0.223                             | 0.124                         | 0.127                          | 21                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 898.0125         | 36.0              | 35.3                  | E            | 1.11                    | External  | 0.228                             | 0.127                         | 0.129                          | 22                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 898.0125         | 36.0              | 35.3                  | E            | 1.11                    | Internal  | 0.197                             | 0.109                         | 0.111                          | 19                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 900.9875         | 36.0              | 35.1                  | E            | 1.1                     | External  | 0.204                             | 0.112                         | 0.115                          | 19                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 900.9875         | 36.0              | 35.1                  | E            | 1.1                     | Internal  | 0.200                             | 0.110                         | 0.113                          | 19                           | 0.60                 | 0.45                    |
| <b>Tx Frequency Band – 935-940 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 935.0125         | 36.0              | 35.6                  | E            | 1.08                    | External  | 0.197                             | 0.106                         | 0.108                          | 17                           | 0.62                 | 0.47                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 935.0125         | 36.0              | 35.6                  | E            | 1.08                    | Internal  | 0.143                             | 0.077                         | 0.078                          | 13                           | 0.62                 | 0.47                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 937.0125         | 36.0              | 35.9                  | E            | 1.08                    | External  | 0.197                             | 0.106                         | 0.107                          | 17                           | 0.62                 | 0.47                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 937.0125         | 36.0              | 35.9                  | E            | 1.08                    | Internal  | 0.127                             | 0.068                         | 0.069                          | 11                           | 0.62                 | 0.47                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 939.9875         | 36.0              | 36.0                  | E            | 1.08                    | External  | 0.181                             | 0.098                         | 0.098                          | 16                           | 0.63                 | 0.47                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 939.9875         | 36.0              | 36.0                  | E            | 1.08                    | Internal  | 0.133                             | 0.072                         | 0.072                          | 11                           | 0.63                 | 0.47                    |
| <b>Tx Frequency Band – 901-902 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 901.5125         | 9.0               | 9.0                   | E            | 1.1                     | External  | 0.074                             | 0.041                         | 0.041                          | 7                            | 0.60                 | 0.45                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 901.5125         | 9.0               | 9.0                   | E            | 1.1                     | Internal  | 0.053                             | 0.029                         | 0.029                          | 5                            | 0.60                 | 0.45                    |
| <b>Tx Frequency Band – 940-941 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 940.5125         | 9.0               | 8.8                   | E            | 1.08                    | External  | 0.077                             | 0.042                         | 0.043                          | 7                            | 0.63                 | 0.47                    |
| Trunk                                  | HAF4019A<br>(806-941MHz) | 1.5                   | 940.5125         | 9.0               | 8.8                   | E            | 1.08                    | Internal  | 0.027                             | 0.014                         | 0.015                          | 2                            | 0.63                 | 0.47                    |

Table 6: E-field - MPE assessment data with antenna HAF4020A mounted on the trunk

| Ant Loc.                               | Ant. Model/<br>Desc.     | Ant.<br>Gain<br>(dBi) | Tx Freq<br>(MHz) | Max<br>Pwr<br>(W) | Initial<br>Pwr<br>(W) | E/H<br>Field | Probe<br>Cal.<br>Factor | Test Pos. | Avg. over<br>Body<br>(mW/<br>cm2) | Calc.<br>P.D.<br>(mW/<br>cm2) | Max Calc.<br>P.D. (mW/<br>cm2) | % To<br>FCC<br>Spec<br>Limit | FCC<br>Spec<br>Limit | ICNIRP<br>Spec<br>limit |
|----------------------------------------|--------------------------|-----------------------|------------------|-------------------|-----------------------|--------------|-------------------------|-----------|-----------------------------------|-------------------------------|--------------------------------|------------------------------|----------------------|-------------------------|
| <b>Tx Frequency Band – 806-824 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 806.0125         | 42.0              | 41.9                  | E            | 1.22                    | External  | 0.167                             | 0.102                         | 0.102                          | 19                           | 0.54                 | 0.40                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 806.0125         | 42.0              | 41.9                  | E            | 1.22                    | Internal  | 0.380                             | 0.232                         | 0.232                          | 43                           | 0.54                 | 0.40                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | External  | 0.196                             | 0.119                         | 0.119                          | 22                           | 0.54                 | 0.41                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | Internal  | 0.380                             | 0.230                         | 0.230                          | 42                           | 0.54                 | 0.41                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 823.9875         | 42.0              | 41.7                  | E            | 1.2                     | External  | 0.161                             | 0.097                         | 0.097                          | 18                           | 0.55                 | 0.41                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 823.9875         | 42.0              | 41.7                  | E            | 1.2                     | Internal  | 0.367                             | 0.220                         | 0.222                          | 40                           | 0.55                 | 0.41                    |
| <b>Tx Frequency Band – 851-869 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 851.0125         | 42.0              | 41.0                  | E            | 1.17                    | External  | 0.177                             | 0.104                         | 0.106                          | 19                           | 0.57                 | 0.43                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 851.0125         | 42.0              | 41.0                  | E            | 1.17                    | Internal  | 0.277                             | 0.162                         | 0.166                          | 29                           | 0.57                 | 0.43                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 860.0125         | 42.0              | 40.6                  | E            | 1.15                    | External  | 0.209                             | 0.120                         | 0.124                          | 22                           | 0.57                 | 0.43                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 860.0125         | 42.0              | 40.6                  | E            | 1.15                    | Internal  | 0.320                             | 0.184                         | 0.190                          | 33                           | 0.57                 | 0.43                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 868.9875         | 42.0              | 39.9                  | E            | 1.14                    | External  | 0.209                             | 0.119                         | 0.125                          | 22                           | 0.58                 | 0.43                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 868.9875         | 42.0              | 39.9                  | E            | 1.14                    | Internal  | 0.343                             | 0.196                         | 0.206                          | 36                           | 0.58                 | 0.43                    |
| <b>Tx Frequency Band – 896-901 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 896.0125         | 36.0              | 35.0                  | E            | 1.11                    | External  | 0.254                             | 0.141                         | 0.145                          | 24                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 896.0125         | 36.0              | 35.0                  | E            | 1.11                    | Internal  | 0.427                             | 0.237                         | 0.244                          | 41                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 898.0125         | 36.0              | 35.3                  | E            | 1.11                    | External  | 0.245                             | 0.136                         | 0.139                          | 23                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 898.0125         | 36.0              | 35.3                  | E            | 1.11                    | Internal  | 0.417                             | 0.231                         | 0.236                          | 39                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 900.9875         | 36.0              | 35.1                  | E            | 1.1                     | External  | 0.229                             | 0.126                         | 0.129                          | 22                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 900.9875         | 36.0              | 35.1                  | E            | 1.1                     | Internal  | 0.477                             | 0.262                         | 0.269                          | 45                           | 0.60                 | 0.45                    |
| <b>Tx Frequency Band – 935-940 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 935.0125         | 36.0              | 35.6                  | E            | 1.08                    | External  | 0.164                             | 0.089                         | 0.090                          | 14                           | 0.62                 | 0.47                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 935.0125         | 36.0              | 35.6                  | E            | 1.08                    | Internal  | 0.297                             | 0.160                         | 0.162                          | 26                           | 0.62                 | 0.47                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 937.0125         | 36.0              | 35.9                  | E            | 1.08                    | External  | 0.167                             | 0.090                         | 0.090                          | 14                           | 0.62                 | 0.47                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 937.0125         | 36.0              | 35.9                  | E            | 1.08                    | Internal  | 0.320                             | 0.173                         | 0.173                          | 28                           | 0.62                 | 0.47                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 939.9875         | 36.0              | 36.0                  | E            | 1.08                    | External  | 0.160                             | 0.086                         | 0.086                          | 14                           | 0.63                 | 0.47                    |
| Trunk                                  | HAF4020A<br>(806-941MHz) | 1.2                   | 939.9875         | 36.0              | 36.0                  | E            | 1.08                    | Internal  | 0.327                             | 0.176                         | 0.176                          | 28                           | 0.63                 | 0.47                    |

Table 7: E-field - MPE assessment data with antenna HAF4022A mounted on the trunk

| Ant Loc.                               | Ant. Model/<br>Desc.     | Ant.<br>Gain<br>(dBi) | Tx Freq<br>(MHz) | Max<br>Pwr<br>(W) | Initial<br>Pwr<br>(W) | E/H<br>Field | Probe<br>Cal.<br>Factor | Test Pos. | Avg. over<br>Body<br>(mW/<br>cm2) | Calc.<br>P.D.<br>(mW/<br>cm2) | Max Calc.<br>P.D. (mW/<br>cm2) | % To<br>FCC<br>Spec<br>Limit | FCC<br>Spec<br>Limit | ICNIRP<br>Spec<br>limit |
|----------------------------------------|--------------------------|-----------------------|------------------|-------------------|-----------------------|--------------|-------------------------|-----------|-----------------------------------|-------------------------------|--------------------------------|------------------------------|----------------------|-------------------------|
| <b>Tx Frequency Band – 806-824 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 806.0125         | 42.0              | 41.9                  | E            | 1.22                    | External  | 0.233                             | 0.142                         | 0.142                          | 27                           | 0.54                 | 0.40                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 806.0125         | 42.0              | 41.9                  | E            | 1.22                    | Internal  | 0.220                             | 0.134                         | 0.135                          | 25                           | 0.54                 | 0.40                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | External  | 0.249                             | 0.151                         | 0.151                          | 28                           | 0.54                 | 0.41                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | Internal  | 0.243                             | 0.147                         | 0.148                          | 27                           | 0.54                 | 0.41                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 823.9875         | 42.0              | 41.7                  | E            | 1.2                     | External  | 0.211                             | 0.127                         | 0.128                          | 23                           | 0.55                 | 0.41                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 823.9875         | 42.0              | 41.7                  | E            | 1.2                     | Internal  | 0.250                             | 0.150                         | 0.151                          | 28                           | 0.55                 | 0.41                    |
| <b>Tx Frequency Band – 851-869 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 851.0125         | 42.0              | 41.0                  | E            | 1.17                    | External  | 0.194                             | 0.113                         | 0.116                          | 20                           | 0.57                 | 0.43                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 851.0125         | 42.0              | 41.0                  | E            | 1.17                    | Internal  | 0.187                             | 0.109                         | 0.112                          | 20                           | 0.57                 | 0.43                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 860.0125         | 42.0              | 40.6                  | E            | 1.15                    | External  | 0.189                             | 0.109                         | 0.112                          | 20                           | 0.57                 | 0.43                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 860.0125         | 42.0              | 40.6                  | E            | 1.15                    | Internal  | 0.193                             | 0.111                         | 0.115                          | 20                           | 0.57                 | 0.43                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 868.9875         | 42.0              | 39.9                  | E            | 1.14                    | External  | 0.205                             | 0.117                         | 0.123                          | 21                           | 0.58                 | 0.43                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 868.9875         | 42.0              | 39.9                  | E            | 1.14                    | Internal  | 0.190                             | 0.108                         | 0.114                          | 20                           | 0.58                 | 0.43                    |
| <b>Tx Frequency Band – 896-901 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 896.0125         | 36.0              | 35.0                  | E            | 1.11                    | External  | 0.237                             | 0.132                         | 0.135                          | 23                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 896.0125         | 36.0              | 35.0                  | E            | 1.11                    | Internal  | 0.240                             | 0.133                         | 0.137                          | 23                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 898.0125         | 36.0              | 35.3                  | E            | 1.11                    | External  | 0.218                             | 0.121                         | 0.123                          | 21                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 898.0125         | 36.0              | 35.3                  | E            | 1.11                    | Internal  | 0.203                             | 0.113                         | 0.115                          | 19                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 900.9875         | 36.0              | 35.1                  | E            | 1.1                     | External  | 0.196                             | 0.108                         | 0.111                          | 18                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 900.9875         | 36.0              | 35.1                  | E            | 1.1                     | Internal  | 0.203                             | 0.112                         | 0.115                          | 19                           | 0.60                 | 0.45                    |
| <b>Tx Frequency Band – 935-940 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 935.0125         | 36.0              | 35.6                  | E            | 1.08                    | External  | 0.177                             | 0.096                         | 0.097                          | 16                           | 0.62                 | 0.47                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 935.0125         | 36.0              | 35.6                  | E            | 1.08                    | Internal  | 0.127                             | 0.068                         | 0.069                          | 11                           | 0.62                 | 0.47                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 937.0125         | 36.0              | 35.9                  | E            | 1.08                    | External  | 0.154                             | 0.083                         | 0.083                          | 13                           | 0.62                 | 0.47                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 937.0125         | 36.0              | 35.9                  | E            | 1.08                    | Internal  | 0.113                             | 0.061                         | 0.061                          | 10                           | 0.62                 | 0.47                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 939.9875         | 36.0              | 36.0                  | E            | 1.08                    | External  | 0.151                             | 0.082                         | 0.082                          | 13                           | 0.63                 | 0.47                    |
| Trunk                                  | HAF4022A<br>(806-941MHz) | 1.7                   | 939.9875         | 36.0              | 36.0                  | E            | 1.08                    | Internal  | 0.110                             | 0.059                         | 0.059                          | 9                            | 0.63                 | 0.47                    |

Table 8: E-field - MPE assessment data with antenna HAF4023A mounted on the trunk

| Ant Loc.                               | Ant. Model/<br>Desc.     | Ant.<br>Gain<br>(dBi) | Tx Freq<br>(MHz) | Max<br>Pwr<br>(W) | Initial<br>Pwr<br>(W) | E/H<br>Field | Probe<br>Cal.<br>Factor | Test Pos. | Avg. over<br>Body<br>(mW/<br>cm2) | Calc.<br>P.D.<br>(mW/<br>cm2) | Max Calc.<br>P.D. (mW/<br>cm2) | % To<br>FCC<br>Spec<br>Limit | FCC<br>Spec<br>Limit | ICNIRP<br>Spec<br>limit |
|----------------------------------------|--------------------------|-----------------------|------------------|-------------------|-----------------------|--------------|-------------------------|-----------|-----------------------------------|-------------------------------|--------------------------------|------------------------------|----------------------|-------------------------|
| <b>Tx Frequency Band – 806-824 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 806.0125         | 42.0              | 41.9                  | E            | 1.22                    | External  | 0.222                             | 0.135                         | 0.136                          | 25                           | 0.54                 | 0.40                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 806.0125         | 42.0              | 41.9                  | E            | 1.22                    | Internal  | 0.537                             | 0.327                         | 0.328                          | 61                           | 0.54                 | 0.40                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | External  | 0.236                             | 0.143                         | 0.143                          | 26                           | 0.54                 | 0.41                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | Internal  | 0.523                             | 0.317                         | 0.317                          | 58                           | 0.54                 | 0.41                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 823.9875         | 42.0              | 41.7                  | E            | 1.2                     | External  | 0.199                             | 0.119                         | 0.120                          | 22                           | 0.55                 | 0.41                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 823.9875         | 42.0              | 41.7                  | E            | 1.2                     | Internal  | 0.480                             | 0.288                         | 0.290                          | 53                           | 0.55                 | 0.41                    |
| <b>Tx Frequency Band – 851-869 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 851.0125         | 42.0              | 41.0                  | E            | 1.17                    | External  | 0.191                             | 0.112                         | 0.114                          | 20                           | 0.57                 | 0.43                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 851.0125         | 42.0              | 41.0                  | E            | 1.17                    | Internal  | 0.357                             | 0.209                         | 0.214                          | 38                           | 0.57                 | 0.43                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 860.0125         | 42.0              | 40.6                  | E            | 1.15                    | External  | 0.221                             | 0.127                         | 0.131                          | 23                           | 0.57                 | 0.43                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 860.0125         | 42.0              | 40.6                  | E            | 1.15                    | Internal  | 0.340                             | 0.196                         | 0.202                          | 35                           | 0.57                 | 0.43                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 868.9875         | 42.0              | 39.9                  | E            | 1.14                    | External  | 0.229                             | 0.131                         | 0.137                          | 24                           | 0.58                 | 0.43                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 868.9875         | 42.0              | 39.9                  | E            | 1.14                    | Internal  | 0.343                             | 0.196                         | 0.206                          | 36                           | 0.58                 | 0.43                    |
| <b>Tx Frequency Band – 896-901 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 896.0125         | 36.0              | 35.0                  | E            | 1.11                    | External  | 0.239                             | 0.133                         | 0.136                          | 23                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 896.0125         | 36.0              | 35.0                  | E            | 1.11                    | Internal  | 0.473                             | 0.263                         | 0.270                          | 45                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 898.0125         | 36.0              | 35.3                  | E            | 1.11                    | External  | 0.231                             | 0.128                         | 0.131                          | 22                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 898.0125         | 36.0              | 35.3                  | E            | 1.11                    | Internal  | 0.427                             | 0.237                         | 0.241                          | 40                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 900.9875         | 36.0              | 35.1                  | E            | 1.1                     | External  | 0.212                             | 0.117                         | 0.120                          | 20                           | 0.60                 | 0.45                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 900.9875         | 36.0              | 35.1                  | E            | 1.1                     | Internal  | 0.457                             | 0.251                         | 0.258                          | 43                           | 0.60                 | 0.45                    |
| <b>Tx Frequency Band – 935-940 MHz</b> |                          |                       |                  |                   |                       |              |                         |           |                                   |                               |                                |                              |                      |                         |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 935.0125         | 36.0              | 35.6                  | E            | 1.08                    | External  | 0.170                             | 0.092                         | 0.093                          | 15                           | 0.62                 | 0.47                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 935.0125         | 36.0              | 35.6                  | E            | 1.08                    | Internal  | 0.283                             | 0.153                         | 0.155                          | 25                           | 0.62                 | 0.47                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 937.0125         | 36.0              | 35.9                  | E            | 1.08                    | External  | 0.154                             | 0.083                         | 0.083                          | 13                           | 0.62                 | 0.47                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 937.0125         | 36.0              | 35.9                  | E            | 1.08                    | Internal  | 0.257                             | 0.139                         | 0.139                          | 22                           | 0.62                 | 0.47                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 939.9875         | 36.0              | 36.0                  | E            | 1.08                    | External  | 0.150                             | 0.081                         | 0.081                          | 13                           | 0.63                 | 0.47                    |
| Trunk                                  | HAF4023A<br>(806-941MHz) | 2                     | 939.9875         | 36.0              | 36.0                  | E            | 1.08                    | Internal  | 0.287                             | 0.155                         | 0.155                          | 25                           | 0.63                 | 0.47                    |

Table 9: E-field - MPE assessment data at 45 and 90 degrees

| Ant Loc.                                                                              | Ant. Model/<br>Desc.     | Ant.<br>Gain<br>(dBi) | Tx Freq<br>(MHz) | Max<br>Pwr<br>(W) | Initial<br>Pwr<br>(W) | E/H<br>Field | Probe<br>Cal.<br>Factor | Test Pos. | Avg. over<br>Body<br>(mW/<br>cm <sup>2</sup> ) | Calc.<br>P.D.<br>(mW/<br>cm <sup>2</sup> ) | Max Calc.<br>P.D. (mW/<br>cm <sup>2</sup> ) | % To<br>FCC<br>Spec<br>Limit | FCC<br>Spec<br>Limit | ICNIRP<br>Spec<br>limit |
|---------------------------------------------------------------------------------------|--------------------------|-----------------------|------------------|-------------------|-----------------------|--------------|-------------------------|-----------|------------------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------|----------------------|-------------------------|
| <b>45 Degree - using the highest Calc MPE test result configuration at the trunk.</b> |                          |                       |                  |                   |                       |              |                         |           |                                                |                                            |                                             |                              |                      |                         |
| Trunk                                                                                 | HAF4022A<br>(806-941MHz) | 1.7                   | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | External  | 0.128                                          | 0.077                                      | 0.078                                       | 14                           | 0.54                 | 0.41                    |
| <b>90 Degree - using the highest Calc MPE test result configuration at the trunk.</b> |                          |                       |                  |                   |                       |              |                         |           |                                                |                                            |                                             |                              |                      |                         |
| Trunk                                                                                 | HAF4022A<br>(806-941MHz) | 1.7                   | 815.0125         | 42.0              | 41.9                  | E            | 1.21                    | External  | 0.117                                          | 0.071                                      | 0.071                                       | 13                           | 0.54                 | 0.41                    |

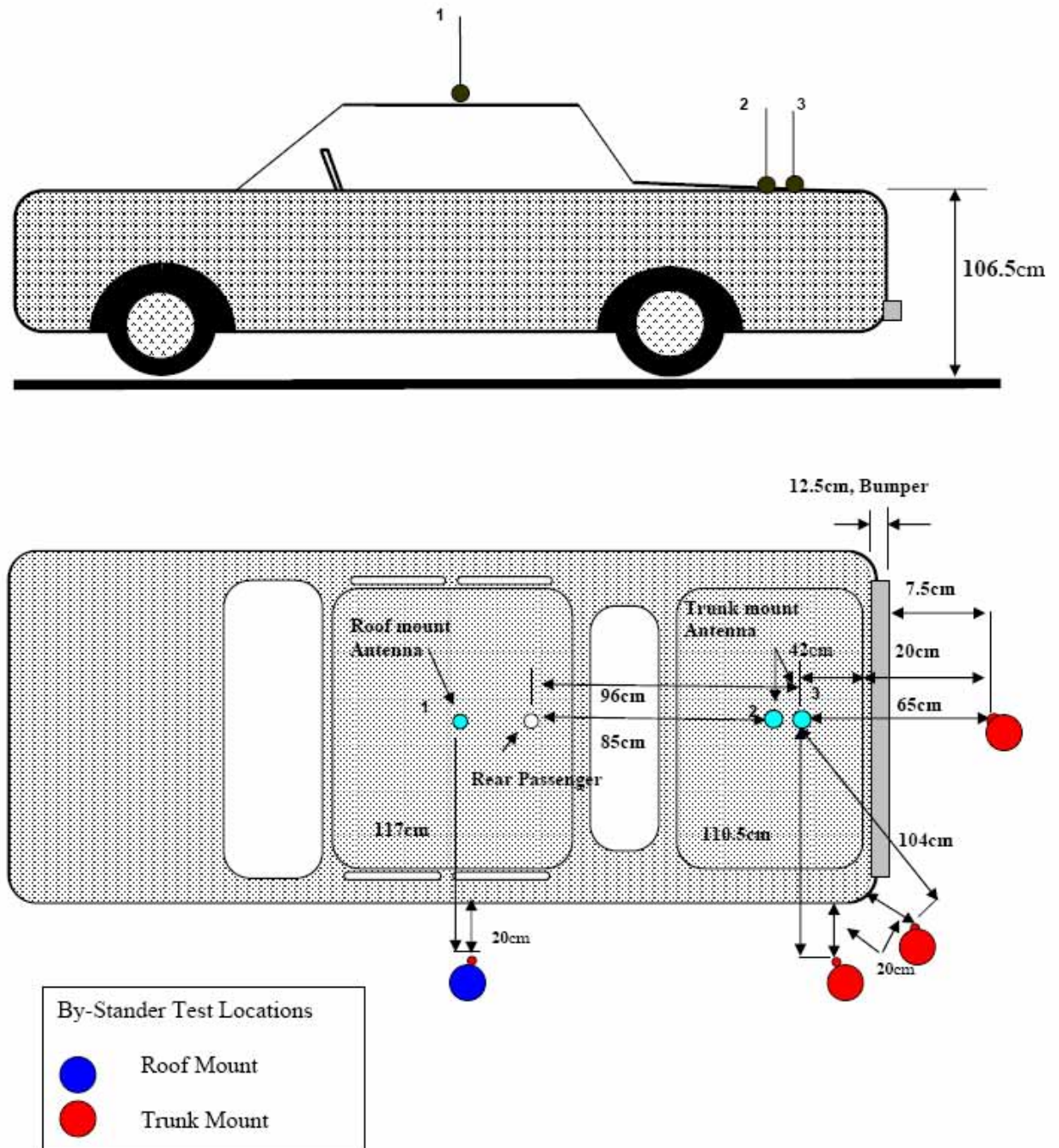
## 11.0 Conclusion

The assessments for this device were performed with an output power range as indicated in section 8.0 and the maximum allowable output power is equal to the upper limit of the final test factory transmit power specification for each of the frequency range as indicated in section 1.0. The highest power density results for this device were scaled to the maximum allowable power output is 0.33mW/cm<sup>2</sup> for Internal/Passenger to the vehicle and 0.15mW/cm<sup>2</sup> for External/Bystander to the vehicle.

These MPE results herein demonstrate compliance to the FCC/IEEE General Population/ Uncontrolled Exposure limits for Bystander/Passenger, and compliance to the FCC/IEEE Occupational/Controlled Exposure limits for the Operator.

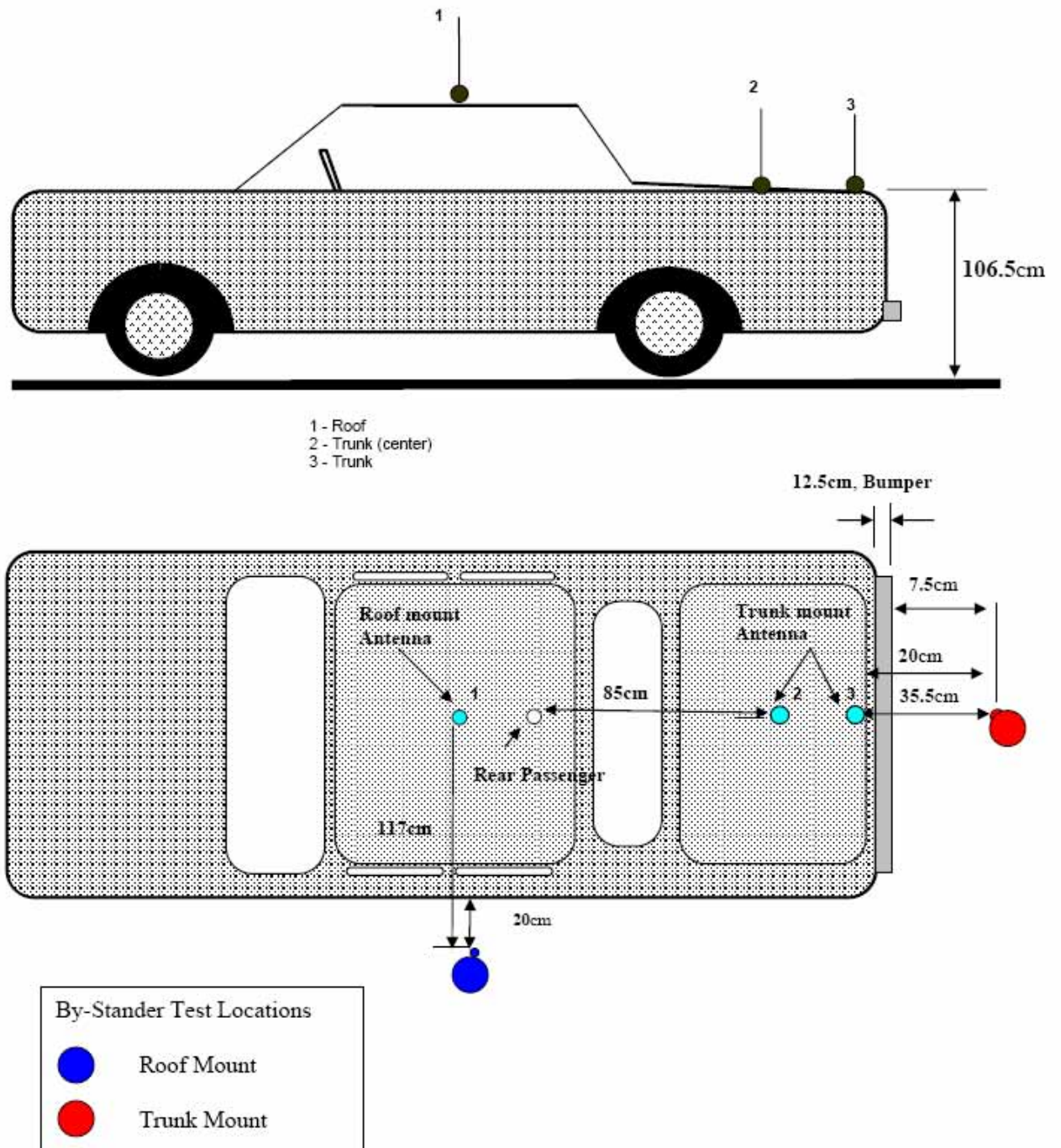
**APPENDIX A**  
**Antenna Location Drawing with Test Locations Identified**

**Figure 1: 60cm**



**Figure 1**

Figure 2: 20cm



**APPENDIX B**  
**Meter/Probe Calibration Certificates**



Cert I.D.: 70578  
Lab Code 115844/1207.01



1301 Arrow Point Drive  
Cedar Park, Texas 78613  
(512) 531-6498



Track# 5000015131 Ltd Cal ☐  
By AS Date 04-Dec-08  
Next Cal Due  
www.ets-lindgren.com

## Certificate of Calibration Conformance

Page 1 of 4

The instrument identified below has been individually calibrated in compliance with the following standard(s):

IEEE 1309 - 2005, Institute of Electrical and Electronics Engineers, Standard for Calibration of Electromagnetic Field Sensors and Probes, Excluding Antennas from 9 kHz to 40 GHz

Environment: Laboratory MTE is maintained in a temperature controlled environment with ambient conditions from 18 to 28 C, relative humidity less than 90%. The instrument under test has been calibrated in a suitable environment using an EMCO TEM Cell 5101C, GTEM 5305 and an RF Shielded EMC Chamber which is conducive to maintaining accurate and reliable measurement quality.

|                             |                                                                             |                  |                         |
|-----------------------------|-----------------------------------------------------------------------------|------------------|-------------------------|
| Manufacturer:               | ETS-Lindgren                                                                | Operating Range: | 100kHz - 5GHz           |
| Model Number:               | E100                                                                        | Instrument Type: | Isotropic Probe > 1 GHz |
| Serial Number/ ID:          | 00083370                                                                    | Date Code:       |                         |
| Tracking Number:            | S000015131                                                                  | Alternate ID:    |                         |
| Date Completed:             | 04-Dec-08                                                                   | Customer:        | MOTOROLA INC. (FL)      |
| Test Type:                  | Standard Field, Field Strength                                              |                  |                         |
| Calibration Uncertainty:    | Std Field Method 10kHz - 18000 MHz, +/-0.7 dB, 26.5GHz - 40GHz, +/- 0.95 dB |                  |                         |
| k=2, (95% Confidence Level) |                                                                             |                  |                         |

Test Remarks: Provided special data points per customer request.

Calibration Traceability: All Measuring and Test Equipment (M/TE) identified below are traceable to the National Institute for Standards and Technology (NIST). Calibration Laboratory and Quality System controls are compliant with ISO/IEC 17025-2005.

### Standards and Equipment Used:

| Make / Model / Name / S/N / Recall Date                          | Condition of Instrument Upon Receipt:      |
|------------------------------------------------------------------|--------------------------------------------|
| Boonton 9200B RF Voltmeter 280601AE 29-Sep-09                    | In Tolerance to Internal Quality Standards |
| Hewlett Packard 437B HP Power Meter 3125U12370 21-May-09         |                                            |
| Fluke 6060B RF Signal Generator 5690204 20-May-09                | On Release:                                |
| Marconi 2022 Signal Generator 119019/077 02-Oct-09               | In Tolerance to Internal Quality Standards |
| Rohde & Schwarz 857.8008.0 Power Meter NRVD 828110/019 27-Dec-08 |                                            |
| Hewlett Packard 83620B Signal Generator 3722A00541 19-Sep-09     |                                            |

Calibration Completed By  
Alan Schifferdecker, Calibration Technician

Attested and Issued on 04-Dec-08  
Justin Tarr, Calibration Supervisor

This document provides traceability of measurements to recognized national standards using controlled processes at the ETS-Lindgren Calibration Laboratory. Uncertainties listed are derived from the methods described by NIST Tech Note 1297. This certificate and report may not be reproduced, except in full, without the written approval of ETS-Lindgren Calibration Laboratory in accordance with ISO/IEC 17025-2005. QAF 1127 (06/07)



**Frequency Response Calibration Factors**  
**Model E100 Serial Number 00083370**  
**Date of Calibration 4 Dec 2008**

| Frequency<br>(MHz) | Applied<br>V/m | Probe Reading |        |        | Correction Factor |      |      |      |
|--------------------|----------------|---------------|--------|--------|-------------------|------|------|------|
|                    |                | X             | Y      | Z      | X                 | Y    | Z    | Avg  |
| 1.00               | 7.97           | 6.74          | 6.71   | 6.60   | 1.18              | 1.19 | 1.21 | 1.19 |
| 1.00               | 20.01          | 17.05         | 16.99  | 16.75  | 1.17              | 1.18 | 1.19 | 1.18 |
| 1.00               | 69.93          | 59.37         | 59.09  | 58.36  | 1.18              | 1.18 | 1.20 | 1.19 |
| 1.00               | 124.30         | 105.11        | 104.67 | 103.34 | 1.18              | 1.19 | 1.20 | 1.19 |
| 15.00              | 8.02           | 7.86          | 7.79   | 7.76   | 1.02              | 1.03 | 1.03 | 1.03 |
| 15.00              | 19.96          | 19.62         | 19.45  | 19.42  | 1.02              | 1.03 | 1.03 | 1.02 |
| 15.00              | 70.28          | 68.97         | 68.30  | 68.14  | 1.02              | 1.03 | 1.03 | 1.03 |
| 15.00              | 125.20         | 122.31        | 121.06 | 120.78 | 1.02              | 1.03 | 1.04 | 1.03 |
| 30.00              | 8.02           | 8.00          | 7.92   | 7.89   | 1.00              | 1.01 | 1.02 | 1.01 |
| 30.00              | 20.11          | 20.09         | 19.88  | 19.85  | 1.00              | 1.01 | 1.01 | 1.01 |
| 30.00              | 69.83          | 69.30         | 68.56  | 68.31  | 1.01              | 1.02 | 1.02 | 1.02 |
| 30.00              | 124.31         | 122.47        | 121.21 | 120.74 | 1.01              | 1.03 | 1.03 | 1.02 |
| 75.00              | 8.03           | 8.24          | 8.23   | 8.12   | 0.97              | 0.98 | 0.99 | 0.98 |
| 75.00              | 20.11          | 20.71         | 20.64  | 20.46  | 0.97              | 0.97 | 0.98 | 0.98 |
| 75.00              | 70.04          | 72.11         | 71.83  | 71.03  | 0.97              | 0.98 | 0.99 | 0.98 |
| 75.00              | 124.66         | 128.20        | 127.66 | 126.29 | 0.97              | 0.98 | 0.99 | 0.98 |
| 100.00             | 8.02           | 8.17          | 8.13   | 8.04   | 0.98              | 0.99 | 1.00 | 0.99 |
| 100.00             | 20.04          | 20.45         | 20.33  | 20.21  | 0.98              | 0.99 | 0.99 | 0.99 |
| 100.00             | 70.33          | 71.31         | 70.79  | 70.25  | 0.99              | 0.99 | 1.00 | 0.99 |
| 100.00             | 124.43         | 125.68        | 124.79 | 123.57 | 0.99              | 1.00 | 1.01 | 1.00 |
| 150.00             | 8.03           | 8.14          | 8.14   | 8.02   | 0.99              | 0.99 | 1.00 | 0.99 |
| 150.00             | 19.96          | 20.33         | 20.31  | 20.09  | 0.98              | 0.98 | 0.99 | 0.99 |
| 150.00             | 70.14          | 71.64         | 71.55  | 70.58  | 0.98              | 0.98 | 0.99 | 0.98 |
| 150.00             | 125.58         | 128.56        | 128.42 | 126.52 | 0.98              | 0.98 | 0.99 | 0.98 |
| 200.00             | 8.00           | 8.43          | 8.53   | 8.28   | 0.95              | 0.94 | 0.97 | 0.95 |
| 200.00             | 19.97          | 21.08         | 21.37  | 20.85  | 0.95              | 0.93 | 0.96 | 0.95 |
| 200.00             | 69.86          | 74.08         | 74.82  | 72.92  | 0.94              | 0.93 | 0.96 | 0.94 |
| 200.00             | 124.95         | 132.17        | 134.06 | 130.32 | 0.95              | 0.93 | 0.96 | 0.95 |
| 250.00             | 7.97           | 8.11          | 7.88   | 7.96   | 0.98              | 1.01 | 1.00 | 1.00 |
| 250.00             | 19.99          | 20.55         | 19.75  | 20.20  | 0.97              | 1.01 | 0.99 | 0.99 |
| 250.00             | 70.06          | 72.32         | 70.37  | 70.59  | 0.97              | 1.00 | 0.99 | 0.99 |
| 250.00             | 125.12         | 128.64        | 124.26 | 125.28 | 0.97              | 1.01 | 1.00 | 0.99 |
| 300.00             | 8.00           | 8.08          | 7.94   | 7.97   | 0.99              | 1.01 | 1.00 | 1.00 |
| 300.00             | 20.03          | 20.57         | 20.25  | 20.34  | 0.97              | 0.99 | 0.98 | 0.98 |
| 300.00             | 69.79          | 72.57         | 71.30  | 71.56  | 0.96              | 0.98 | 0.98 | 0.97 |
| 300.00             | 125.28         | 130.82        | 128.42 | 128.85 | 0.96              | 0.98 | 0.97 | 0.97 |
| 400.00             | 8.00           | 8.10          | 7.97   | 7.97   | 0.99              | 1.00 | 1.00 | 1.00 |
| 400.00             | 19.89          | 20.15         | 19.87  | 19.89  | 0.99              | 1.00 | 1.00 | 1.00 |
| 400.00             | 69.67          | 70.49         | 69.32  | 69.33  | 0.99              | 1.01 | 1.00 | 1.00 |
| 400.00             | 125.09         | 126.27        | 124.24 | 124.10 | 0.99              | 1.01 | 1.01 | 1.00 |
| 500.00             | 8.01           | 7.89          | 7.95   | 7.68   | 1.02              | 1.01 | 1.03 | 1.02 |
| 500.00             | 19.94          | 19.59         | 19.74  | 19.37  | 1.02              | 1.01 | 1.03 | 1.02 |
| 500.00             | 70.28          | 69.65         | 70.06  | 68.64  | 1.01              | 1.00 | 1.02 | 1.01 |
| 500.00             | 124.58         | 123.19        | 123.63 | 121.24 | 1.01              | 1.01 | 1.03 | 1.02 |
| 600.00             | 8.01           | 7.65          | 7.63   | 7.61   | 1.04              | 1.05 | 1.06 | 1.05 |
| 600.00             | 20.01          | 19.34         | 19.09  | 19.06  | 1.04              | 1.05 | 1.05 | 1.04 |
| 600.00             | 69.90          | 67.55         | 67.54  | 66.46  | 1.03              | 1.04 | 1.05 | 1.04 |
| 600.00             | 125.28         | 120.21        | 120.01 | 119.47 | 1.03              | 1.05 | 1.05 | 1.04 |



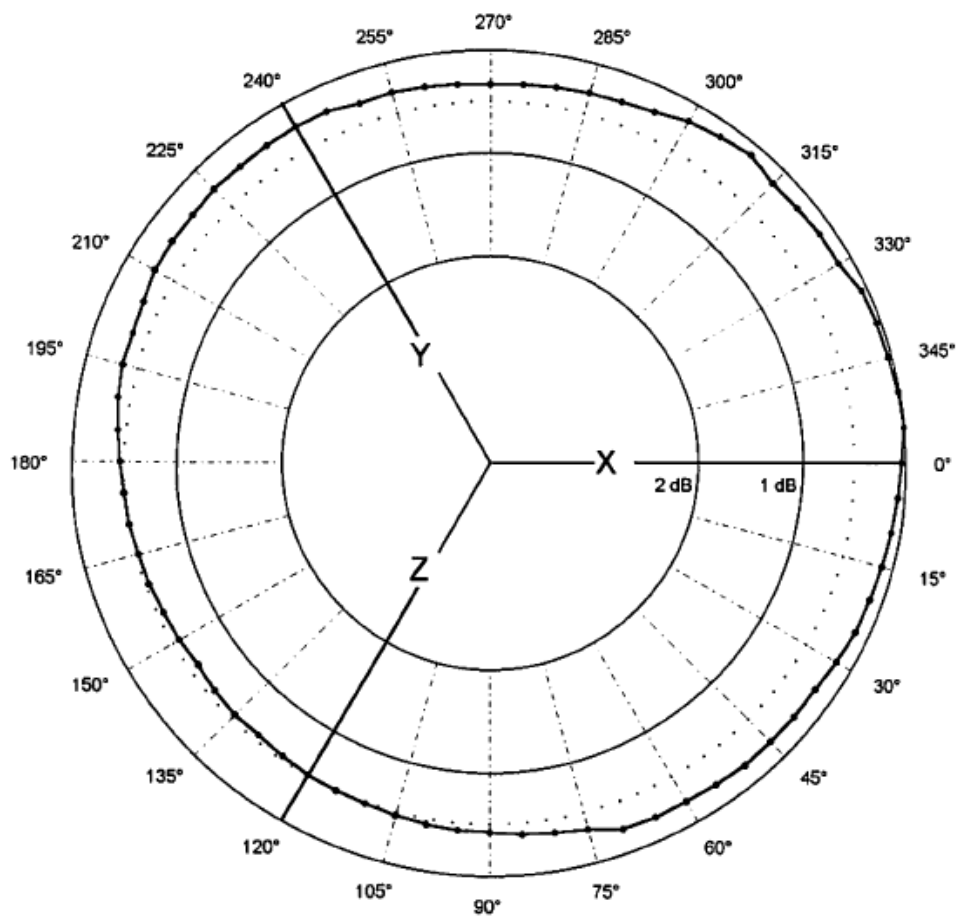
**Frequency Response Calibration Factors**  
**Model E100 Serial Number 00083370**  
**Date of Calibration 4 Dec 2008**

| Frequency<br>(MHz) | Applied<br>V/m | Probe Reading |        |        | Correction Factor |      |      |      |
|--------------------|----------------|---------------|--------|--------|-------------------|------|------|------|
|                    |                | X             | Y      | Z      | X                 | Y    | Z    | Avg  |
| 700.00             | 7.96           | 7.56          | 7.35   | 7.42   | 1.05              | 1.08 | 1.07 | 1.07 |
| 700.00             | 20.10          | 19.21         | 18.63  | 18.87  | 1.05              | 1.08 | 1.06 | 1.06 |
| 700.00             | 70.26          | 67.25         | 65.16  | 65.96  | 1.05              | 1.08 | 1.07 | 1.06 |
| 700.00             | 125.09         | 119.09        | 115.24 | 116.69 | 1.05              | 1.09 | 1.07 | 1.07 |
| 800.00             | 8.04           | 7.34          | 7.28   | 7.22   | 1.10              | 1.10 | 1.11 | 1.10 |
| 800.00             | 20.02          | 18.38         | 18.27  | 18.07  | 1.09              | 1.09 | 1.11 | 1.10 |
| 800.00             | 69.85          | 64.15         | 63.68  | 63.03  | 1.09              | 1.10 | 1.11 | 1.10 |
| 800.00             | 124.82         | 113.69        | 112.90 | 111.64 | 1.10              | 1.10 | 1.12 | 1.11 |
| 900.00             | 7.97           | 7.70          | 7.78   | 7.56   | 1.03              | 1.02 | 1.05 | 1.04 |
| 900.00             | 20.03          | 19.42         | 19.58  | 19.07  | 1.03              | 1.02 | 1.05 | 1.03 |
| 900.00             | 70.21          | 67.77         | 68.79  | 66.47  | 1.04              | 1.02 | 1.06 | 1.04 |
| 900.00             | 124.81         | 119.63        | 120.40 | 117.19 | 1.04              | 1.04 | 1.06 | 1.05 |
| 1000.00            | 7.99           | 8.09          | 7.90   | 7.89   | 0.99              | 1.01 | 1.01 | 1.00 |
| 1000.00            | 19.92          | 20.17         | 19.63  | 19.74  | 0.99              | 1.01 | 1.01 | 1.00 |
| 1000.00            | 69.78          | 70.08         | 68.11  | 68.35  | 1.00              | 1.02 | 1.02 | 1.01 |
| 1000.00            | 124.80         | 124.87        | 120.11 | 120.41 | 1.01              | 1.04 | 1.03 | 1.02 |
| 2000.00            | 19.92          | 19.09         | 18.99  | 20.04  | 1.04              | 1.05 | 0.99 | 1.03 |
| 2450.00            | 20.38          | 19.27         | 18.50  | 17.75  | 1.06              | 1.10 | 1.15 | 1.10 |
| 3000.00            | 20.36          | 19.27         | 18.66  | 19.77  | 1.06              | 1.09 | 1.03 | 1.06 |
| 3500.00            | 20.02          | 21.99         | 21.67  | 19.57  | 0.91              | 0.92 | 1.02 | 0.95 |
| 4000.00            | 19.99          | 19.75         | 18.25  | 19.57  | 1.01              | 1.10 | 1.02 | 1.04 |
| 5000.00            | 19.97          | 14.40         | 13.92  | 15.38  | 1.39              | 1.43 | 1.30 | 1.37 |



## PROBE ROTATIONAL RESPONSE

Model E100  
S/N 00083370  
Date 04-Dec-2008  
Time 20:40:05  
Variation 0.59 dB



\* Isotropic response measured in a 20 V/m field at 400 MHz

**APPENDIX C**  
**Photo of Assessed Antennas**



**Figure1:** HAF4022A, HAF4019A, HAF4020A, and HAF4023A.



**Figure 2:** PMAN4004B GPS base

**APPENDIX D**  
**Detailed MPE Measurement Data**

| Ant Loc    | Ant. Model/ Desc.      | Ant. Gain (dBi) | Ant. Meas. Dist. (cm) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                   |                         | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |
|------------|------------------------|-----------------|-----------------------|---------------|-------------|-----------------|-----------|-----------|-------------------|-----------|-----------------------------------|-------------------|-------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|
|            |                        |                 |                       |               |             |                 |           |           |                   |           | Head/ Top 1/3                     | Chest/ Middle 1/3 | Lower Trunk/ Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |
| Roof mount |                        |                 |                       |               |             |                 |           |           |                   |           |                                   |                   |                         |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
| Roof       | HAF-4019A (806-941MHz) | 1.5             | 60 (actual 117cm)     | 806.0125      | 42.0        | 41.9            | CW        | E         | 1.22              | BS        |                                   |                   |                         | 0.000                     | 0.000 | 0.000 | 0.000 | 0.010  | 0.030  | 0.060  | 0.140  | 0.160              | 0.160                   | 0.5                 | 0.056                   | 0.034  | 0.034  |
| Roof       | HAF-4019A (806-941MHz) | 1.5             | NA                    | 806.0125      | 42.0        | 41.9            | CW        | E         | 1.22              | PB        | 0.020                             | 0.020             | 0.030                   |                           |       |       |       |        |        |        |        |                    | 0.5                     | 0.023               | 0.014                   | 0.014  |        |
| Roof       | HAF-4019A (806-941MHz) | 1.5             | NA                    | 806.0125      | 42.0        | 41.9            | CW        | E         | 1.22              | PF        | 0.010                             | 0.010             | 0.000                   |                           |       |       |       |        |        |        |        |                    | 0.5                     | 0.007               | 0.004                   | 0.004  |        |
| Roof       | HAF-4019A (806-941MHz) | 1.5             | 60 (actual 117cm)     | 815.0125      | 42.0        | 41.9            | CW        | E         | 1.21              | BS        |                                   |                   |                         | 0.000                     | 0.000 | 0.000 | 0.000 | 0.010  | 0.020  | 0.070  | 0.130  | 0.170              | 0.170                   | 0.5                 | 0.057                   | 0.034  | 0.035  |
| Roof       | HAF-4019A (806-941MHz) | 1.5             | NA                    | 815.0125      | 42.0        | 41.9            | CW        | E         | 1.21              | PB        | 0.040                             | 0.020             | 0.050                   |                           |       |       |       |        |        |        |        |                    | 0.5                     | 0.037               | 0.022                   | 0.022  |        |
| Roof       | HAF-4019A (806-941MHz) | 1.5             | NA                    | 815.0125      | 42.0        | 41.9            | CW        | E         | 1.21              | PF        | 0.000                             | 0.020             | 0.000                   |                           |       |       |       |        |        |        |        |                    | 0.5                     | 0.007               | 0.004                   | 0.004  |        |
| Roof       | HAF-4019A (806-941MHz) | 1.5             | 60 (actual 117cm)     | 823.9875      | 42.0        | 41.7            | CW        | E         | 1.2               | BS        |                                   |                   |                         | 0.000                     | 0.000 | 0.000 | 0.010 | 0.030  | 0.070  | 0.140  | 0.170  | 0.170              | 0.5                     | 0.060               | 0.036                   | 0.036  |        |
| Roof       | HAF-4019A (806-941MHz) | 1.5             | NA                    | 823.9875      | 42.0        | 41.7            | CW        | E         | 1.2               | PB        | 0.030                             | 0.030             | 0.040                   |                           |       |       |       |        |        |        |        |                    | 0.5                     | 0.033               | 0.020                   | 0.020  |        |
| Roof       | HAF-4019A (806-941MHz) | 1.5             | NA                    | 823.9875      | 42.0        | 41.7            | CW        | E         | 1.2               | PF        | 0.010                             | 0.020             | 0.000                   |                           |       |       |       |        |        |        |        |                    | 0.5                     | 0.010               | 0.006                   | 0.006  |        |

| Ant Loc. | Ant. Model/<br>Desc.  | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |
|----------|-----------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|
|          |                       |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |
| Roof     | HAF4019A (806-941MHz) | 1.5                | 60 (actual 117cm)        | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.000 | 0.000 | 0.000  | 0.020  | 0.030  | 0.080  | 0.130              | 0.240                   | 0.240               | 0.074                   | 0.043  | 0.044  |
|          |                       |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
| Roof     | HAF4019A (806-941MHz) | 1.5                | NA                       | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | PB        | 0.020                             | 0.030            | 0.020                  |                           |       |       |       |        |        |        |        |                    |                         |                     | 0.023                   | 0.014  | 0.014  |
| Roof     | HAF4019A (806-941MHz) | 1.5                | NA                       | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | PF        | 0.010                             | 0.020            | 0.010                  |                           |       |       |       |        |        |        |        |                    |                         |                     | 0.013                   | 0.008  | 0.008  |
| Roof     | HAF4019A (806-941MHz) | 1.5                | 60 (actual 117cm)        | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.000 | 0.000 | 0.000  | 0.010  | 0.030  | 0.070  | 0.110              | 0.200                   | 0.190               | 0.061                   | 0.035  | 0.036  |
| Roof     | HAF4019A (806-941MHz) | 1.5                | NA                       | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | PB        | 0.020                             | 0.050            | 0.020                  |                           |       |       |       |        |        |        |        |                    |                         |                     | 0.030                   | 0.017  | 0.018  |
| Roof     | HAF4019A (806-941MHz) | 1.5                | NA                       | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | PF        | 0.000                             | 0.010            | 0.000                  |                           |       |       |       |        |        |        |        |                    |                         |                     | 0.003                   | 0.002  | 0.002  |
| Roof     | HAF4019A (806-941MHz) | 1.5                | 60 (actual 117cm)        | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.000 | 0.000 | 0.000  | 0.020  | 0.040  | 0.060  | 0.140              | 0.240                   | 0.210               | 0.071                   | 0.040  | 0.043  |
| Roof     | HAF4019A (806-941MHz) | 1.5                | NA                       | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | PB        | 0.030                             | 0.050            | 0.020                  |                           |       |       |       |        |        |        |        |                    |                         |                     | 0.033                   | 0.019  | 0.020  |
| Roof     | HAF4019A (806-941MHz) | 1.5                | NA                       | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | PF        | 0.010                             | 0.000            | 0.010                  |                           |       |       |       |        |        |        |        |                    |                         |                     | 0.007                   | 0.004  | 0.004  |

| Ant Loc. | Ant. Model/<br>Desc.  | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |       |  |       |
|----------|-----------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|-------|--|-------|
|          |                       |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |       |  |       |
| Roof     | HAF4019A (806-941MHz) | 1.5                | 60 (actual 117cm)        | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.000 | 0.010 | 0.020  | 0.030  | 0.070  | 0.140  | 0.220              | 0.210                   |                     |                         |        |        |       |  |       |
|          |                       |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |       |  |       |
| Roof     | HAF4019A (806-941MHz) | 1.5                | NA                       | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | PB        | 0.010                             | 0.020            | 0.010                  | 0.010                     |       |       |       |        |        |        |        |                    |                         |                     |                         | 0.5    | 0.023  | 0.013 |  | 0.013 |
| Roof     | HAF4019A (806-941MHz) | 1.5                | NA                       | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | PF        | 0.020                             | 0.010            | 0.010                  | 0.010                     |       |       |       |        |        |        |        |                    |                         |                     |                         | 0.5    | 0.013  | 0.007 |  | 0.008 |
| Roof     | HAF4019A (806-941MHz) | 1.5                | 60 (actual 117cm)        | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.000 | 0.010 | 0.020  | 0.030  | 0.070  | 0.130  | 0.210              | 0.200                   |                     |                         |        | 0.067  | 0.037 |  | 0.038 |
| Roof     | HAF4019A (806-941MHz) | 1.5                | NA                       | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | PB        | 0.010                             | 0.020            | 0.020                  | 0.040                     |       |       |       |        |        |        |        |                    |                         |                     |                         | 0.5    | 0.023  | 0.013 |  | 0.013 |
| Roof     | HAF4019A (806-941MHz) | 1.5                | NA                       | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | PF        | 0.010                             | 0.010            | 0.010                  | 0.000                     |       |       |       |        |        |        |        |                    |                         |                     |                         | 0.5    | 0.007  | 0.004 |  | 0.004 |
| Roof     | HAF4019A (806-941MHz) | 1.5                | 60 (actual 117cm)        | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.000 | 0.010 | 0.020  | 0.060  | 0.060  | 0.120  | 0.190              | 0.170                   |                     |                         |        | 0.063  | 0.035 |  | 0.036 |
| Roof     | HAF4019A (806-941MHz) | 1.5                | NA                       | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | PB        | 0.010                             | 0.010            | 0.010                  | 0.040                     |       |       |       |        |        |        |        |                    |                         |                     |                         | 0.5    | 0.020  | 0.011 |  | 0.011 |
| Roof     | HAF4019A (806-941MHz) | 1.5                | NA                       | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | PF        | 0.010                             | 0.010            | 0.010                  | 0.000                     |       |       |       |        |        |        |        |                    |                         |                     |                         | 0.5    | 0.007  | 0.004 |  | 0.004 |

| Ant Loc. | Ant. Model/<br>Ant. Desc. | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (m) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                      |                            | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |  |  |  |  |  |  |  |  |
|----------|---------------------------|--------------------|-------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|----------------------|----------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|--|--|--|--|--|--|--|--|
|          |                           |                    |                         |                  |                |                    |           |           |                   |           | Head/<br>Top 1/3                  | Chest/<br>Middle 1/3 | Lower Trunk/<br>Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |  |  |  |  |  |  |  |  |
| Roof     | HAF-4019A (806-941MHz)    | 1.5                | 60 (actual 117cm)       | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | BS        |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
| Roof     | HAF-4019A (806-941MHz)    | 1.5                | NA                      | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | PB        | 0.010                             | 0.010                | 0.010                      |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
| Roof     | HAF-4019A (806-941MHz)    | 1.5                | NA                      | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | PF        | 0.010                             | 0.010                | 0.000                      |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
| Roof     | HAF-4019A (806-941MHz)    | 1.5                | 60 (actual 117cm)       | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | BS        |                                   |                      |                            | 0.000                     | 0.000 |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
| Roof     | HAF-4019A (806-941MHz)    | 1.5                | NA                      | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | PB        | 0.020                             | 0.010                | 0.010                      |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
| Roof     | HAF-4019A (806-941MHz)    | 1.5                | NA                      | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | PF        | 0.000                             | 0.010                | 0.000                      |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
| Roof     | HAF-4019A (806-941MHz)    | 1.5                | 60 (actual 117cm)       | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | BS        |                                   |                      |                            | 0.000                     | 0.000 | 0.000 |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
| Roof     | HAF-4019A (806-941MHz)    | 1.5                | NA                      | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | PB        | 0.010                             | 0.010                | 0.010                      |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
| Roof     | HAF-4019A (806-941MHz)    | 1.5                | NA                      | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | PF        | 0.000                             | 0.010                | 0.000                      |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |
|          |                           |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |

| Ant Loc. | Ant. Model/<br>Desc.      | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max<br>Pwr<br>(W) | Initial<br>Pwr<br>(W) | Test<br>Mode | E/H<br>Field | Probe<br>Cal.<br>Factor | Test<br>Pos. | Passenger/Operator (MC)<br>Positions |                         |                                  | By Stander (BS) Positions |       |       |       |        |        |        |        |        |        | DUT<br>Max.<br>TX<br>Factor | Avg.<br>over<br>Body<br>(mW/<br>cm2) | Calc.<br>P.D.<br>(mW/<br>cm2) | Max<br>Calc.<br>P.D.<br>(mW/<br>cm2) |  |  |  |  |  |  |  |  |  |  |
|----------|---------------------------|--------------------|--------------------------|------------------|-------------------|-----------------------|--------------|--------------|-------------------------|--------------|--------------------------------------|-------------------------|----------------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-----------------------------|--------------------------------------|-------------------------------|--------------------------------------|--|--|--|--|--|--|--|--|--|--|
|          |                           |                    |                          |                  |                   |                       |              |              |                         |              | Head/<br>Top 1/3                     | Chest/<br>Middle<br>1/3 | Lower<br>Trunk/<br>Bottom<br>1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm |                             |                                      |                               |                                      |  |  |  |  |  |  |  |  |  |  |
| Roof     | HAF-4019A<br>(806-941MHz) | 1.5                | 20 (actual<br>117cm)     | 901.5125         | 9.0               | 9.0                   | CW           | E            | 1.1                     | BS           |                                      |                         |                                  |                           |       |       |       |        |        |        |        |        |        |                             |                                      |                               |                                      |  |  |  |  |  |  |  |  |  |  |
|          |                           |                    |                          |                  |                   |                       |              |              |                         |              |                                      |                         |                                  |                           |       |       |       |        |        |        |        |        |        |                             |                                      |                               |                                      |  |  |  |  |  |  |  |  |  |  |
|          |                           |                    |                          |                  |                   |                       |              |              |                         |              |                                      |                         |                                  |                           |       |       |       |        |        |        |        |        |        |                             |                                      |                               |                                      |  |  |  |  |  |  |  |  |  |  |
| Roof     | HAF-4019A<br>(806-941MHz) | 1.5                | NA                       | 901.5125         | 9.0               | 9.0                   | CW           | E            | 1.1                     | PB           | 0.000                                | 0.000                   | 0.000                            | 0.000                     | 0.000 | 0.000 | 0.000 | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000                       | 0.000                                | 0.000                         | 0.000                                |  |  |  |  |  |  |  |  |  |  |
|          |                           |                    |                          |                  |                   |                       |              |              |                         |              |                                      |                         |                                  |                           |       |       |       |        |        |        |        |        |        |                             |                                      |                               |                                      |  |  |  |  |  |  |  |  |  |  |
|          |                           |                    |                          |                  |                   |                       |              |              |                         |              |                                      |                         |                                  |                           |       |       |       |        |        |        |        |        |        |                             |                                      |                               |                                      |  |  |  |  |  |  |  |  |  |  |
| Roof     | HAF-4019A<br>(806-941MHz) | 1.5                | NA                       | 901.5125         | 9.0               | 9.0                   | CW           | E            | 1.1                     | PF           | 0.000                                | 0.000                   | 0.000                            | 0.000                     | 0.000 | 0.000 | 0.000 | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000                       | 0.000                                | 0.000                         | 0.000                                |  |  |  |  |  |  |  |  |  |  |
|          |                           |                    |                          |                  |                   |                       |              |              |                         |              |                                      |                         |                                  |                           |       |       |       |        |        |        |        |        |        |                             |                                      |                               |                                      |  |  |  |  |  |  |  |  |  |  |
|          |                           |                    |                          |                  |                   |                       |              |              |                         |              |                                      |                         |                                  |                           |       |       |       |        |        |        |        |        |        |                             |                                      |                               |                                      |  |  |  |  |  |  |  |  |  |  |
| Roof     | HAF-4019A<br>(806-941MHz) | 1.5                | 20 (actual<br>117cm)     | 940.5125         | 9.0               | 8.8                   | CW           | E            | 1.08                    | BS           |                                      |                         |                                  |                           |       |       |       |        |        |        |        |        |        |                             |                                      |                               |                                      |  |  |  |  |  |  |  |  |  |  |
|          |                           |                    |                          |                  |                   |                       |              |              |                         |              |                                      |                         |                                  |                           |       |       |       |        |        |        |        |        |        |                             |                                      |                               |                                      |  |  |  |  |  |  |  |  |  |  |
|          |                           |                    |                          |                  |                   |                       |              |              |                         |              |                                      |                         |                                  |                           |       |       |       |        |        |        |        |        |        |                             |                                      |                               |                                      |  |  |  |  |  |  |  |  |  |  |
| Roof     | HAF-4019A<br>(806-941MHz) | 1.5                | NA                       | 940.5125         | 9.0               | 8.8                   | CW           | E            | 1.08                    | PB           | 0.000                                | 0.000                   | 0.000                            | 0.000                     | 0.000 | 0.000 | 0.000 | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000                       | 0.000                                | 0.000                         | 0.000                                |  |  |  |  |  |  |  |  |  |  |
|          |                           |                    |                          |                  |                   |                       |              |              |                         |              |                                      |                         |                                  |                           |       |       |       |        |        |        |        |        |        |                             |                                      |                               |                                      |  |  |  |  |  |  |  |  |  |  |
|          |                           |                    |                          |                  |                   |                       |              |              |                         |              |                                      |                         |                                  |                           |       |       |       |        |        |        |        |        |        |                             |                                      |                               |                                      |  |  |  |  |  |  |  |  |  |  |
| Roof     | HAF-4019A<br>(806-941MHz) | 1.5                | NA                       | 940.5125         | 9.0               | 8.8                   | CW           | E            | 1.08                    | PF           | 0.000                                | 0.000                   | 0.000                            | 0.000                     | 0.000 | 0.000 | 0.000 | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000                       | 0.000                                | 0.000                         | 0.000                                |  |  |  |  |  |  |  |  |  |  |
|          |                           |                    |                          |                  |                   |                       |              |              |                         |              |                                      |                         |                                  |                           |       |       |       |        |        |        |        |        |        |                             |                                      |                               |                                      |  |  |  |  |  |  |  |  |  |  |
|          |                           |                    |                          |                  |                   |                       |              |              |                         |              |                                      |                         |                                  |                           |       |       |       |        |        |        |        |        |        |                             |                                      |                               |                                      |  |  |  |  |  |  |  |  |  |  |

| Ant Loc. | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (m) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |
|----------|------------------------|--------------------|-------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|
|          |                        |                    |                         |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 117cm)       | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | BS        |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           | 0.000                             | 0.000            | 0.000                  | 0.000                     | 0.000 | 0.000 | 0.040 | 0.100  | 0.160  | 0.260  | 0.220  | 0.090              | 0.5                     | 0.087               | 0.053                   | 0.053  |        |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                      | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | PB        | 0.050                             | 0.030            | 0.050                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.043                   | 0.026  | 0.026  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                      | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | PF        | 0.100                             | 0.060            | 0.010                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.057                   | 0.035  | 0.035  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 117cm)       | 815.0125         | 42.0           | 41.9               | CW        | E         | 1.21              | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.010 | 0.010 | 0.040  | 0.090  | 0.180  | 0.310  | 0.260              | 0.120                   | 0.5                 | 0.102                   | 0.062  | 0.062  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                      | 815.0125         | 42.0           | 41.9               | CW        | E         | 1.21              | PB        | 0.050                             | 0.030            | 0.060                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.047                   | 0.028  | 0.028  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                      | 815.0125         | 42.0           | 41.9               | CW        | E         | 1.21              | PF        | 0.080                             | 0.050            | 0.030                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.053                   | 0.032  | 0.032  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 117cm)       | 823.9875         | 42.0           | 41.7               | CW        | E         | 1.2               | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.000 | 0.000 | 0.030  | 0.070  | 0.170  | 0.240  | 0.210              | 0.100                   | 0.5                 | 0.082                   | 0.049  | 0.050  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                      | 823.9875         | 42.0           | 41.7               | CW        | E         | 1.2               | PB        | 0.040                             | 0.040            | 0.080                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.053                   | 0.032  | 0.032  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                      | 823.9875         | 42.0           | 41.7               | CW        | E         | 1.2               | PF        | 0.020                             | 0.010            | 0.020                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.017                   | 0.010  | 0.010  |

| Ant Loc. | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                   |                         | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |
|----------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|-------------------|-------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|
|          |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/ Top 1/3                     | Chest/ Middle 1/3 | Lower Trunk/ Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 117cm)        | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | BS        |                                   |                   |                         | 0.000                     | 0.000 | 0.000 | 0.010 | 0.040  | 0.050  | 0.160  | 0.250  | 0.260              | 0.120                   | 0.089               | 0.052                   | 0.053  |        |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                   |                         |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                       | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | PB        | 0.040                             | 0.040             | 0.040                   |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.040                   | 0.023  | 0.024  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                       | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | PF        | 0.010                             | 0.020             | 0.010                   |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.013                   | 0.008  | 0.008  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 117cm)        | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | BS        |                                   |                   |                         | 0.000                     | 0.000 | 0.000 | 0.010 | 0.030  | 0.050  | 0.160  | 0.250  | 0.250              | 0.110                   | 0.086               | 0.049                   | 0.051  |        |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                       | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | PB        | 0.050                             | 0.040             | 0.040                   |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.043                   | 0.025  | 0.026  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                       | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | PF        | 0.000                             | 0.020             | 0.010                   |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.010                   | 0.006  | 0.006  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 117cm)        | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | BS        |                                   |                   |                         | 0.000                     | 0.000 | 0.000 | 0.010 | 0.030  | 0.070  | 0.140  | 0.240  | 0.260              | 0.110                   | 0.086               | 0.049                   | 0.052  |        |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                       | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | PB        | 0.060                             | 0.040             | 0.030                   |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.043                   | 0.025  | 0.026  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                       | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | PF        | 0.010                             | 0.000             | 0.020                   |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.010                   | 0.006  | 0.006  |

| Ant Loc.   | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                   |                         | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |
|------------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|-------------------|-------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|------------------------|---------------------|-------------------------|--------|--------|
|            |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/ Top 1/3                     | Chest/ Middle 1/3 | Lower Trunk/ Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                        |                     |                         | 180 cm | 200 cm |
| Roof mount |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                   |                         |                           |       |       |       |        |        |        |        |                    |                        |                     |                         |        |        |
| Roof       | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 117cm)        | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | BS        |                                   |                   |                         | 0.000                     | 0.000 | 0.000 | 0.020 | 0.050  | 0.060  | 0.150  | 0.270  | 0.280              | 0.120                  | 0.5                 | 0.095                   | 0.053  | 0.054  |
| Roof       | HAF-4020A (806-941MHz) | 1.2                | NA                       | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | PB        | 0.030                             | 0.020             | 0.080                   |                           |       |       |       |        |        |        |        |                    |                        | 0.5                 | 0.043                   | 0.024  | 0.025  |
| Roof       | HAF-4020A (806-941MHz) | 1.2                | NA                       | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | PF        | 0.020                             | 0.010             | 0.010                   |                           |       |       |       |        |        |        |        |                    |                        | 0.5                 | 0.013                   | 0.007  | 0.008  |
| Roof       | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 117cm)        | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | BS        |                                   |                   |                         | 0.000                     | 0.000 | 0.000 | 0.020 | 0.040  | 0.060  | 0.140  | 0.250  | 0.260              | 0.120                  | 0.5                 | 0.089                   | 0.049  | 0.050  |
| Roof       | HAF-4020A (806-941MHz) | 1.2                | NA                       | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | PB        | 0.030                             | 0.020             | 0.070                   |                           |       |       |       |        |        |        |        |                    |                        | 0.5                 | 0.040                   | 0.022  | 0.023  |
| Roof       | HAF-4020A (806-941MHz) | 1.2                | NA                       | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | PF        | 0.020                             | 0.010             | 0.020                   |                           |       |       |       |        |        |        |        |                    |                        | 0.5                 | 0.017                   | 0.009  | 0.009  |
| Roof       | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 117cm)        | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | BS        |                                   |                   |                         | 0.000                     | 0.000 | 0.000 | 0.020 | 0.040  | 0.060  | 0.120  | 0.250  | 0.260              | 0.100                  | 0.5                 | 0.085                   | 0.047  | 0.048  |
| Roof       | HAF-4020A (806-941MHz) | 1.2                | NA                       | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | PB        | 0.030                             | 0.040             | 0.060                   |                           |       |       |       |        |        |        |        |                    |                        | 0.5                 | 0.043                   | 0.024  | 0.024  |
| Roof       | HAF-4020A (806-941MHz) | 1.2                | NA                       | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | PF        | 0.030                             | 0.020             | 0.010                   |                           |       |       |       |        |        |        |        |                    |                        | 0.5                 | 0.020                   | 0.011  | 0.011  |

| Ant Loc. | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (m) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |
|----------|------------------------|--------------------|-------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|
|          |                        |                    |                         |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 117cm)       | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.000 | 0.010 | 0.020  | 0.070  | 0.170  | 0.240  | 0.220              | 0.080                   | 0.5                 | 0.081                   | 0.044  | 0.044  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                      | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | PB        | 0.030                             | 0.040            | 0.030                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.033                   | 0.018  | 0.018  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                      | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | PF        | 0.020                             | 0.020            | 0.020                  | 0.020                     |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.020                   | 0.011  | 0.011  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 117cm)       | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.000 | 0.020 | 0.020  | 0.060  | 0.150  | 0.270  | 0.220              | 0.080                   | 0.5                 | 0.082                   | 0.044  | 0.044  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                      | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | PB        | 0.020                             | 0.040            | 0.020                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.027                   | 0.014  | 0.014  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                      | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | PF        | 0.000                             | 0.020            | 0.010                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.010                   | 0.005  | 0.005  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 117cm)       | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.000 | 0.020 | 0.020  | 0.060  | 0.150  | 0.230  | 0.230              | 0.070                   | 0.5                 | 0.078                   | 0.042  | 0.042  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                      | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | PB        | 0.020                             | 0.030            | 0.020                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.023                   | 0.013  | 0.013  |
| Roof     | HAF-4020A (806-941MHz) | 1.2                | NA                      | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | PF        | 0.020                             | 0.010            | 0.020                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.017                   | 0.009  | 0.009  |

| Ant Loc. | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (m) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |  |
|----------|------------------------|--------------------|-------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|--|
|          |                        |                    |                         |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 117cm)       | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.000 | 0.000 | 0.020  | 0.040  | 0.080  | 0.130  | 0.190              | 0.210                   |                     |                         |        |        |  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | PB        | 0.040                             | 0.020            | 0.040                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.033                   | 0.020  | 0.020  |  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | PF        | 0.050                             | 0.020            | 0.020                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.030                   | 0.018  | 0.018  |  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 117cm)       | 815.0125         | 42.0           | 41.9               | CW        | E         | 1.21              | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.000 | 0.000 | 0.020  | 0.040  | 0.080  | 0.150  | 0.220              | 0.220                   | 0.5                 | 0.073                   | 0.044  | 0.044  |  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 815.0125         | 42.0           | 41.9               | CW        | E         | 1.21              | PB        | 0.040                             | 0.030            | 0.050                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.040                   | 0.024  | 0.024  |  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 815.0125         | 42.0           | 41.9               | CW        | E         | 1.21              | PF        | 0.060                             | 0.020            | 0.020                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.033                   | 0.020  | 0.020  |  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 117cm)       | 823.9875         | 42.0           | 41.7               | CW        | E         | 1.2               | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.000 | 0.000 | 0.020  | 0.040  | 0.070  | 0.160  | 0.200              | 0.210                   | 0.5                 | 0.070                   | 0.042  | 0.042  |  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 823.9875         | 42.0           | 41.7               | CW        | E         | 1.2               | PB        | 0.010                             | 0.020            | 0.030                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.020                   | 0.012  | 0.012  |  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 823.9875         | 42.0           | 41.7               | CW        | E         | 1.2               | PF        | 0.010                             | 0.000            | 0.000                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.003                   | 0.002  | 0.002  |  |

| Ant Loc. | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (m) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                   |                         | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |
|----------|------------------------|--------------------|-------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|-------------------|-------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|
|          |                        |                    |                         |                  |                |                    |           |           |                   |           | Head/ Top 1/3                     | Chest/ Middle 1/3 | Lower Trunk/ Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 117cm)       | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | BS        |                                   |                   |                         |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           | 0.000                             | 0.000             | 0.000                   | 0.010                     | 0.020 | 0.080 | 0.140 | 0.220  | 0.210  |        |        |                    |                         |                     |                         |        |        |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | PB        | 0.010                             | 0.040             | 0.040                   |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.030                   | 0.018  | 0.018  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | PF        | 0.000                             | 0.010             | 0.010                   |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.007                   | 0.004  | 0.004  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 117cm)       | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | BS        |                                   |                   |                         |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           | 0.000                             | 0.000             | 0.000                   | 0.030                     | 0.030 | 0.080 | 0.120 | 0.200  | 0.190  |        |        |                    |                         |                     |                         |        |        |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | PB        | 0.010                             | 0.030             | 0.040                   |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.027                   | 0.015  | 0.016  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | PF        | 0.000                             | 0.000             | 0.010                   |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.003                   | 0.002  | 0.002  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 117cm)       | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | BS        |                                   |                   |                         |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           | 0.000                             | 0.000             | 0.000                   | 0.030                     | 0.030 | 0.060 | 0.120 | 0.190  | 0.180  |        |        |                    |                         |                     |                         |        |        |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | PB        | 0.020                             | 0.030             | 0.020                   |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.023                   | 0.013  | 0.014  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | PF        | 0.000                             | 0.000             | 0.000                   |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.000                   | 0.000  | 0.000  |

| Ant Loc. | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (m) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                   |                         | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |       |
|----------|------------------------|--------------------|-------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|-------------------|-------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|-------|
|          |                        |                    |                         |                  |                |                    |           |           |                   |           | Head/ Top 1/3                     | Chest/ Middle 1/3 | Lower Trunk/ Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |       |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 117cm)       | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | BS        |                                   |                   |                         |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |       |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           | 0.000                             | 0.000             | 0.000                   | 0.010                     | 0.020 | 0.020 | 0.060 | 0.120  | 0.180  | 0.180  | 0.059  | 0.033              | 0.034                   |                     |                         |        |        |       |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | PB        | 0.010                             | 0.010             | 0.030                   |                           |       |       |       |        |        |        |        |                    |                         | 0.017               | 0.009                   | 0.010  |        |       |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | PF        | 0.010                             | 0.000             | 0.010                   |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.007                   | 0.004  | 0.004  |       |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 117cm)       | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | BS        |                                   |                   |                         | 0.000                     | 0.000 | 0.000 | 0.010 | 0.020  | 0.020  | 0.070  | 0.120  | 0.170              | 0.170                   | 0.058               | 0.032                   | 0.033  |        |       |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | PB        | 0.020                             | 0.010             | 0.030                   |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.020                   | 0.011  | 0.011  |       |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | PF        | 0.010                             | 0.000             | 0.000                   |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.003                   | 0.002  | 0.002  |       |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 117cm)       | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | BS        |                                   |                   |                         | 0.000                     | 0.000 | 0.000 | 0.010 | 0.020  | 0.020  | 0.050  | 0.090  | 0.150              | 0.150                   | 0.049               | 0.027                   | 0.028  |        |       |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | PB        | 0.010                             | 0.010             | 0.020                   |                           |       |       |       |        |        |        |        |                    |                         |                     | 0.5                     | 0.013  | 0.007  | 0.008 |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | PF        | 0.000                             | 0.000             | 0.000                   |                           |       |       |       |        |        |        |        |                    |                         |                     | 0.5                     | 0.000  | 0.000  | 0.000 |

| Ant Loc. | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (m) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                      |                            | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |  |  |  |  |  |  |  |  |  |  |
|----------|------------------------|--------------------|-------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|----------------------|----------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|--|--|--|--|--|--|--|--|--|--|
|          |                        |                    |                         |                  |                |                    |           |           |                   |           | Head/<br>Top 1/3                  | Chest/<br>Middle 1/3 | Lower Trunk/<br>Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |  |  |  |  |  |  |  |  |  |  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 117cm)       | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | BS        |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | PB        | 0.010                             | 0.020                | 0.010                      |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 117cm)       | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | BS        |                                   |                      |                            | 0.000                     | 0.000 | 0.000 |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | PB        | 0.010                             | 0.010                | 0.010                      |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | PF        | 0.000                             | 0.000                | 0.000                      |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 117cm)       | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | BS        |                                   |                      |                            | 0.000                     | 0.000 | 0.000 |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | PB        | 0.010                             | 0.010                | 0.010                      |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
| Roof     | HAF-4022A (806-941MHz) | 1.7                | NA                      | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | PF        | 0.000                             | 0.000                | 0.000                      |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |
|          |                        |                    |                         |                  |                |                    |           |           |                   |           |                                   |                      |                            |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |  |  |  |  |  |  |  |  |  |

| Ant Loc. | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |
|----------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|
|          |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         |
| Roof     | HAF-4023A (806-941MHz) | 2                  | 60 (actual 117cm)        | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | BS        |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           | 0.000                             | 0.000            | 0.000                  | 0.000                     | 0.000 | 0.000 | 0.000 | 0.030  | 0.130  | 0.230  | 0.370  | 0.170              | 0.020                   | 0.095               | 0.058                   |
| Roof     | HAF-4023A (806-941MHz) | 2                  | NA                       | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | PB        | 0.070                             | 0.020            | 0.040                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
| Roof     | HAF-4023A (806-941MHz) | 2                  | NA                       | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | PF        | 0.070                             | 0.030            | 0.020                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
| Roof     | HAF-4023A (806-941MHz) | 2                  | 60 (actual 117cm)        | 815.0125         | 42.0           | 41.9               | CW        | E         | 1.21              | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.000 | 0.000 | 0.040  | 0.120  | 0.210  | 0.400  | 0.240              | 0.030                   | 0.104               | 0.063                   |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
| Roof     | HAF-4023A (806-941MHz) | 2                  | NA                       | 815.0125         | 42.0           | 41.9               | CW        | E         | 1.21              | PB        | 0.030                             | 0.020            | 0.050                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
| Roof     | HAF-4023A (806-941MHz) | 2                  | NA                       | 815.0125         | 42.0           | 41.9               | CW        | E         | 1.21              | PF        | 0.030                             | 0.020            | 0.020                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
| Roof     | HAF-4023A (806-941MHz) | 2                  | 60 (actual 117cm)        | 823.9875         | 42.0           | 41.7               | CW        | E         | 1.2               | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.000 | 0.000 | 0.030  | 0.080  | 0.200  | 0.350  | 0.220              | 0.050                   | 0.093               | 0.056                   |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
| Roof     | HAF-4023A (806-941MHz) | 2                  | NA                       | 823.9875         | 42.0           | 41.7               | CW        | E         | 1.2               | PB        | 0.020                             | 0.050            | 0.030                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
| Roof     | HAF-4023A (806-941MHz) | 2                  | NA                       | 823.9875         | 42.0           | 41.7               | CW        | E         | 1.2               | PF        | 0.010                             | 0.020            | 0.010                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |

| Ant Loc.   | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC)<br>Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |
|------------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|--------------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|
|            |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                         | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         |
| Roof mount |                        |                    |                          |                  |                |                    |           |           |                   |           |                                      |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
| Roof       | HAF-4023A (806-941MHz) | 2                  | 60 (actual 117cm)        | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | BS        |                                      |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
| Roof       | HAF-4023A (806-941MHz) | 2                  | NA                       | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | PB        | 0.030                                | 0.040            | 0.050                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
| Roof       | HAF-4023A (806-941MHz) | 2                  | NA                       | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | PF        | 0.010                                | 0.030            | 0.020                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
| Roof       | HAF-4023A (806-941MHz) | 2                  | 60 (actual 117cm)        | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | BS        |                                      |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
| Roof       | HAF-4023A (806-941MHz) | 2                  | NA                       | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | PB        | 0.020                                | 0.040            | 0.060                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
| Roof       | HAF-4023A (806-941MHz) | 2                  | NA                       | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | PF        | 0.000                                | 0.010            | 0.010                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
| Roof       | HAF-4023A (806-941MHz) | 2                  | 60 (actual 117cm)        | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | BS        |                                      |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
| Roof       | HAF-4023A (806-941MHz) | 2                  | NA                       | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | PB        | 0.030                                | 0.030            | 0.040                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |
| Roof       | HAF-4023A (806-941MHz) | 2                  | NA                       | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | PF        | 0.010                                | 0.000            | 0.010                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |

| Ant Loc.   | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                   |                         | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |
|------------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|-------------------|-------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|
|            |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/ Top 1/3                     | Chest/ Middle 1/3 | Lower Trunk/ Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm |
| Roof mount |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                   |                         |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |
| Roof       | HAF-4023A (806-941MHz) | 2                  | 60 (actual 117cm)        | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | BS        |                                   |                   |                         | 0.000                     | 0.000 | 0.000 | 0.010 | 0.030  | 0.040  | 0.150  | 0.310  | 0.100              | 0.5                     | 0.095               | 0.053                   | 0.054  |
| Roof       | HAF-4023A (806-941MHz) | 2                  | NA                       | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | PB        | 0.030                             | 0.010             | 0.050                   |                           |       |       |       |        |        |        |        |                    | 0.5                     | 0.030               | 0.017                   | 0.017  |
| Roof       | HAF-4023A (806-941MHz) | 2                  | NA                       | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | PF        | 0.010                             | 0.010             | 0.010                   |                           |       |       |       |        |        |        |        |                    | 0.5                     | 0.010               | 0.006                   | 0.006  |
| Roof       | HAF-4023A (806-941MHz) | 2                  | 60 (actual 117cm)        | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | BS        |                                   |                   |                         | 0.000                     | 0.000 | 0.010 | 0.030 | 0.050  | 0.130  | 0.290  | 0.290  | 0.090              | 0.5                     | 0.089               | 0.049                   | 0.050  |
| Roof       | HAF-4023A (806-941MHz) | 2                  | NA                       | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | PB        | 0.030                             | 0.020             | 0.050                   |                           |       |       |       |        |        |        |        |                    | 0.5                     | 0.033               | 0.019                   | 0.019  |
| Roof       | HAF-4023A (806-941MHz) | 2                  | NA                       | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | PF        | 0.010                             | 0.010             | 0.000                   |                           |       |       |       |        |        |        |        |                    | 0.5                     | 0.007               | 0.004                   | 0.004  |
| Roof       | HAF-4023A (806-941MHz) | 2                  | 60 (actual 117cm)        | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | BS        |                                   |                   |                         | 0.000                     | 0.000 | 0.010 | 0.030 | 0.040  | 0.110  | 0.260  | 0.270  | 0.080              | 0.5                     | 0.080               | 0.044                   | 0.045  |
| Roof       | HAF-4023A (806-941MHz) | 2                  | NA                       | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | PB        | 0.020                             | 0.020             | 0.040                   |                           |       |       |       |        |        |        |        |                    | 0.5                     | 0.027               | 0.015                   | 0.015  |
| Roof       | HAF-4023A (806-941MHz) | 2                  | NA                       | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | PF        | 0.020                             | 0.010             | 0.010                   |                           |       |       |       |        |        |        |        |                    | 0.5                     | 0.013               | 0.007                   | 0.008  |

| Ant Loc. | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |  |
|----------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|--|
|          |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |  |
| Roof     | HAF-4023A (806-941MHz) | 2                  | 60 (actual 117cm)        | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | BS        |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |
| Roof     | HAF-4023A (806-941MHz) | 2                  | NA                       | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | PB        | 0.020                             | 0.020            | 0.020                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |
| Roof     | HAF-4023A (806-941MHz) | 2                  | NA                       | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | PF        | 0.010                             | 0.010            | 0.010                  | 0.000                     |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |
| Roof     | HAF-4023A (806-941MHz) | 2                  | 60 (actual 117cm)        | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | BS        |                                   |                  |                        |                           | 0.000 | 0.000 | 0.000 | 0.010  | 0.040  | 0.120  | 0.260  | 0.240              | 0.070                   | 0.5                 | 0.075                   | 0.041  | 0.041  |  |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |
| Roof     | HAF-4023A (806-941MHz) | 2                  | NA                       | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | PB        | 0.010                             | 0.010            | 0.010                  | 0.020                     |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |
| Roof     | HAF-4023A (806-941MHz) | 2                  | 60 (actual 117cm)        | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | BS        |                                   |                  |                        |                           | 0.000 | 0.000 | 0.000 | 0.010  | 0.040  | 0.110  | 0.260  | 0.260              | 0.070                   | 0.5                 | 0.076                   | 0.041  | 0.041  |  |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |
| Roof     | HAF-4023A (806-941MHz) | 2                  | NA                       | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | PB        | 0.010                             | 0.020            | 0.020                  | 0.020                     |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |
| Roof     | HAF-4023A (806-941MHz) | 2                  | NA                       | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | PF        | 0.000                             | 0.010            | 0.000                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |

| Ant<br>Loc. | Ant. Model/<br>Desc.      | Ant.<br>Gain<br>(dBi) | Ant.<br>Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max<br>Pwr<br>(W) | Initial<br>Pwr<br>(W) | Test<br>Mode | E/H<br>Field | Probe<br>Cal.<br>Factor | Test<br>Pos. | Passenger/Operator (MC)<br>Positions |                         |                                  | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT<br>Max.<br>TX<br>Factor | Avg.<br>over<br>Body<br>(mW/<br>cm2) | Cal.c.<br>P.D.<br>(mW/<br>cm2) | Max<br>Calc.<br>P.D.<br>(mW/<br>cm2) |        |        |       |
|-------------|---------------------------|-----------------------|-----------------------------|------------------|-------------------|-----------------------|--------------|--------------|-------------------------|--------------|--------------------------------------|-------------------------|----------------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|-----------------------------|--------------------------------------|--------------------------------|--------------------------------------|--------|--------|-------|
|             |                           |                       |                             |                  |                   |                       |              |              |                         |              | Head/<br>Top 1/3                     | Chest/<br>Middle<br>1/3 | Lower<br>Trunk/<br>Bottom<br>1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                             |                                      |                                |                                      | 180 cm | 200 cm |       |
| Trunk       | HAF-4019A<br>(806-941MHz) | 1.5                   | 60 (actual<br>62 cm)        | 806.0125         | 42.0              | 41.9                  | CW           | E            | 1.22                    | BS           |                                      |                         |                                  |                           |       |       |       |        |        |        |        |                             |                                      |                                |                                      |        |        |       |
|             | HAF-4019A<br>(806-941MHz) | 1.5                   | NA                          | 806.0125         | 42.0              | 41.9                  | CW           | E            | 1.22                    | PB           | 0.170                                | 0.160                   | 0.160                            |                           |       |       |       |        |        |        |        |                             |                                      | 0.5                            | 0.163                                | 0.100  | 0.100  |       |
|             | HAF-4019A<br>(806-941MHz) | 1.5                   | NA                          | 806.0125         | 42.0              | 41.9                  | CW           | E            | 1.22                    | PF           | 0.140                                | 0.070                   | 0.030                            |                           |       |       |       |        |        |        |        |                             |                                      | 0.5                            | 0.080                                | 0.049  | 0.049  |       |
| Trunk       | HAF-4019A<br>(806-941MHz) | 1.5                   | 60 (actual<br>62 cm)        | 815.0125         | 42.0              | 41.9                  | CW           | E            | 1.21                    | BS           |                                      |                         |                                  |                           |       |       |       |        |        |        |        |                             |                                      |                                | 0.5                                  | 0.171  | 0.103  | 0.104 |
|             | HAF-4019A<br>(806-941MHz) | 1.5                   | NA                          | 815.0125         | 42.0              | 41.9                  | CW           | E            | 1.21                    | PB           | 0.130                                | 0.170                   | 0.110                            |                           |       |       |       |        |        |        |        |                             |                                      | 0.5                            | 0.137                                | 0.083  | 0.083  |       |
|             | HAF-4019A<br>(806-941MHz) | 1.5                   | NA                          | 815.0125         | 42.0              | 41.9                  | CW           | E            | 1.21                    | PF           | 0.080                                | 0.030                   | 0.020                            |                           |       |       |       |        |        |        |        |                             |                                      | 0.5                            | 0.043                                | 0.026  | 0.026  |       |
| Trunk       | HAF-4019A<br>(806-941MHz) | 1.5                   | 60 (actual<br>62 cm)        | 823.9875         | 42.0              | 41.7                  | CW           | E            | 1.2                     | BS           |                                      |                         |                                  |                           |       |       |       |        |        |        |        |                             |                                      |                                | 0.5                                  | 0.183  | 0.110  | 0.111 |
|             | HAF-4019A<br>(806-941MHz) | 1.5                   | NA                          | 823.9875         | 42.0              | 41.7                  | CW           | E            | 1.2                     | PB           | 0.240                                | 0.180                   | 0.110                            |                           |       |       |       |        |        |        |        |                             |                                      | 0.5                            | 0.177                                | 0.106  | 0.107  |       |
|             | HAF-4019A<br>(806-941MHz) | 1.5                   | NA                          | 823.9875         | 42.0              | 41.7                  | CW           | E            | 1.2                     | PF           | 0.060                                | 0.070                   | 0.050                            |                           |       |       |       |        |        |        |        |                             |                                      | 0.5                            | 0.060                                | 0.036  | 0.036  |       |

| Ant Loc | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |
|---------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|
|         |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |
| Trunk   | HAF-4019A (806-941MHz) | 1.5                | 60 (actual 62 cm)        | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.020 | 0.060 | 0.360  | 0.490  | 0.440  | 0.320  | 0.200              | 0.100                   | 0.5                 | 0.200                   | 0.117  | 0.120  |
|         | HAF-4019A (806-941MHz) | 1.5                | NA                       | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | PB        | 0.200                             | 0.190            | 0.170                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.187                   | 0.109  | 0.112  |
| Trunk   | HAF-4019A (806-941MHz) | 1.5                | NA                       | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | PF        | 0.210                             | 0.120            | 0.140                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.157                   | 0.092  | 0.094  |
|         | HAF-4019A (806-941MHz) | 1.5                | 60 (actual 62 cm)        | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.020 | 0.050 | 0.340  | 0.440  | 0.370  | 0.260  | 0.160              | 0.080                   | 0.5                 | 0.172                   | 0.099  | 0.102  |
| Trunk   | HAF-4019A (806-941MHz) | 1.5                | NA                       | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | PB        | 0.170                             | 0.090            | 0.150                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.137                   | 0.079  | 0.081  |
|         | HAF-4019A (806-941MHz) | 1.5                | NA                       | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | PF        | 0.140                             | 0.050            | 0.050                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.080                   | 0.046  | 0.048  |
| Trunk   | HAF-4019A (806-941MHz) | 1.5                | 60 (actual 62 cm)        | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.020 | 0.080 | 0.410  | 0.560  | 0.520  | 0.320  | 0.180              | 0.110                   | 0.5                 | 0.220                   | 0.125  | 0.132  |
|         | HAF-4019A (806-941MHz) | 1.5                | NA                       | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | PB        | 0.290                             | 0.150            | 0.160                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.200                   | 0.114  | 0.120  |
| Trunk   | HAF-4019A (806-941MHz) | 1.5                | NA                       | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | PF        | 0.130                             | 0.060            | 0.030                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.073                   | 0.042  | 0.044  |

| Ant Loc. | Ant. Model/<br>Desc.  | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |
|----------|-----------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|
|          |                       |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |
| Trunk    | HAF4019A (806-941MHz) | 1.5                | 60 (actual 62 cm)        | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.030 | 0.100 | 0.450  | 0.660  | 0.650  | 0.330  | 0.140              | 0.070                   | 0.5                 | 0.244                   | 0.135  | 0.139  |
|          |                       |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
| Trunk    | HAF4019A (806-941MHz) | 1.5                | NA                       | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | PB        | 0.430                             | 0.150            | 0.090                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.223                   | 0.124  | 0.127  |
|          |                       |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
| Trunk    | HAF4019A (806-941MHz) | 1.5                | NA                       | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | PF        | 0.050                             | 0.120            | 0.160                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.110                   | 0.061  | 0.063  |
|          |                       |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
| Trunk    | HAF4019A (806-941MHz) | 1.5                | 60 (actual 62 cm)        | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.030 | 0.100 | 0.410  | 0.620  | 0.620  | 0.320  | 0.110              | 0.060                   | 0.5                 | 0.228                   | 0.127  | 0.129  |
|          |                       |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
| Trunk    | HAF4019A (806-941MHz) | 1.5                | NA                       | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | PB        | 0.340                             | 0.130            | 0.120                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.197                   | 0.109  | 0.111  |
|          |                       |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
| Trunk    | HAF4019A (806-941MHz) | 1.5                | NA                       | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | PF        | 0.040                             | 0.090            | 0.080                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.070                   | 0.039  | 0.040  |
|          |                       |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
| Trunk    | HAF4019A (806-941MHz) | 1.5                | 60 (actual 62 cm)        | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.030 | 0.080 | 0.320  | 0.570  | 0.590  | 0.300  | 0.090              | 0.050                   | 0.5                 | 0.204                   | 0.112  | 0.115  |
|          |                       |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
| Trunk    | HAF4019A (806-941MHz) | 1.5                | NA                       | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | PB        | 0.330                             | 0.160            | 0.110                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.200                   | 0.110  | 0.113  |
|          |                       |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
| Trunk    | HAF4019A (806-941MHz) | 1.5                | NA                       | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | PF        | 0.040                             | 0.040            | 0.080                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.053                   | 0.029  | 0.030  |
|          |                       |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |

| Ant Loc | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |
|---------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|
|         |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |
| Trunk   | HAF-4019A (806-941MHz) | 1.5                | 60 (actual 62 cm)        | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.040 | 0.060 | 0.350  | 0.550  | 0.500  | 0.320  | 0.110              | 0.030                   | 0.5                 | 0.197                   | 0.106  | 0.108  |
|         | HAF-4019A (806-941MHz) | 1.5                | NA                       | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | PB        | 0.180                             | 0.140            | 0.110                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.143                   | 0.077  | 0.078  |
| Trunk   | HAF-4019A (806-941MHz) | 1.5                | NA                       | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | PF        | 0.060                             | 0.030            | 0.050                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.047                   | 0.025  | 0.025  |
|         | HAF-4019A (806-941MHz) | 1.5                | 60 (actual 62 cm)        | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | BS        |                                   |                  |                        | 0.000                     | 0.020 | 0.040 | 0.060 | 0.350  | 0.540  | 0.540  | 0.290  | 0.100              | 0.030                   | 0.5                 | 0.197                   | 0.106  | 0.107  |
| Trunk   | HAF-4019A (806-941MHz) | 1.5                | NA                       | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | PB        | 0.150                             | 0.110            | 0.120                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.127                   | 0.068  | 0.069  |
|         | HAF-4019A (806-941MHz) | 1.5                | NA                       | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | PF        | 0.060                             | 0.040            | 0.040                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.047                   | 0.025  | 0.025  |
| Trunk   | HAF-4019A (806-941MHz) | 1.5                | 60 (actual 62 cm)        | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.040 | 0.060 | 0.310  | 0.520  | 0.460  | 0.280  | 0.110              | 0.020                   | 0.5                 | 0.181                   | 0.098  | 0.098  |
|         | HAF-4019A (806-941MHz) | 1.5                | NA                       | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | PB        | 0.140                             | 0.120            | 0.140                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.133                   | 0.072  | 0.072  |
| Trunk   | HAF-4019A (806-941MHz) | 1.5                | NA                       | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | PF        | 0.050                             | 0.040            | 0.040                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.043                   | 0.023  | 0.023  |
|         | HAF-4019A (806-941MHz) | 1.5                | NA                       | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | PF        |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |

| Ant Loc | Ant. Model/<br>Desc    | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |       |       |       |
|---------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|-------|-------|-------|
|         |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |       |       |       |
| Trunk   | HAF-4019A (806-941MHz) | 1.5                | 20 (actual 35.5 cm)      | 901.5125         | 9.0            | 9.0                | CW        | E         | 1.1               | BS        |                                   |                  |                        | 0.000                     | 0.020 | 0.030 | 0.070 | 0.230  | 0.170  | 0.120  | 0.070  | 0.020              | 0.010                   |                     |                         |        |        |       |       |       |
|         | HAF-4019A (806-941MHz) | 1.5                | NA                       | 901.5125         | 9.0            | 9.0                | CW        | E         | 1.1               | PB        | 0.090                             | 0.030            | 0.040                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        | 0.074  | 0.041 | 0.041 |       |
|         | HAF-4019A (806-941MHz) | 1.5                | NA                       | 901.5125         | 9.0            | 9.0                | CW        | E         | 1.1               | PF        | 0.020                             | 0.020            | 0.020                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         | 0.5    | 0.053  | 0.029 | 0.029 |       |
| Trunk   | HAF-4019A (806-941MHz) | 1.5                | 20 (actual 35.5 cm)      | 940.5125         | 9.0            | 8.8                | CW        | E         | 1.08              | BS        |                                   |                  |                        | 0.000                     | 0.020 | 0.020 | 0.070 | 0.250  | 0.220  | 0.100  | 0.050  | 0.030              | 0.010                   |                     |                         |        |        | 0.077 | 0.042 | 0.043 |
|         | HAF-4019A (806-941MHz) | 1.5                | NA                       | 940.5125         | 9.0            | 8.8                | CW        | E         | 1.08              | PB        | 0.040                             | 0.020            | 0.020                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         | 0.5    | 0.027  | 0.014 | 0.015 |       |
|         | HAF-4019A (806-941MHz) | 1.5                | NA                       | 940.5125         | 9.0            | 8.8                | CW        | E         | 1.08              | PF        | 0.010                             | 0.010            | 0.010                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         | 0.5    | 0.010  | 0.005 | 0.006 |       |
| Trunk   | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 62 cm)        | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | BS        |                                   |                  |                        | 0.010                     | 0.020 | 0.050 | 0.130 | 0.650  | 0.650  | 0.110  | 0.020  | 0.020              | 0.010                   |                     |                         |        |        | 0.167 | 0.102 | 0.102 |
|         | HAF-4020A (806-941MHz) | 1.2                | NA                       | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | PB        | 0.500                             | 0.410            | 0.230                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         | 0.5    | 0.380  | 0.232 | 0.232 |       |
|         | HAF-4020A (806-941MHz) | 1.2                | NA                       | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | PF        | 0.270                             | 0.160            | 0.080                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         | 0.5    | 0.170  | 0.104 | 0.104 |       |

| Ant Loc. | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |
|----------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|
|          |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm |                    |                         |                     |                         | 160 cm | 180 cm |
| Trunk    | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 62 cm)        | 815.0125         | 42.0           | 41.9               | CW        | E         | 1.21              | BS        |                                   |                  |                        | 0.010                     | 0.020 | 0.050 | 0.130 | 0.720  | 0.800  | 0.140  | 0.020              | 0.040                   | 0.030               | 0.196                   | 0.119  |        |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |                    |                         |                     |                         |        |        |
| Trunk    | HAF-4020A (806-941MHz) | 1.2                | NA                       | 815.0125         | 42.0           | 41.9               | CW        | E         | 1.21              | PB        | 0.440                             | 0.450            | 0.250                  |                           |       |       |       |        |        |        |                    |                         | 0.5                 | 0.380                   | 0.230  | 0.230  |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |                    |                         |                     |                         |        |        |
| Trunk    | HAF-4020A (806-941MHz) | 1.2                | NA                       | 815.0125         | 42.0           | 41.9               | CW        | E         | 1.21              | PF        | 0.240                             | 0.140            | 0.080                  |                           |       |       |       |        |        |        |                    |                         | 0.5                 | 0.153                   | 0.093  | 0.093  |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |                    |                         |                     |                         |        |        |
| Trunk    | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 62 cm)        | 823.9875         | 42.0           | 41.7               | CW        | E         | 1.2               | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.040 | 0.110 | 0.590  | 0.600  | 0.120  | 0.030              | 0.070                   | 0.040               | 0.161                   | 0.097  | 0.097  |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |                    |                         |                     |                         |        |        |
| Trunk    | HAF-4020A (806-941MHz) | 1.2                | NA                       | 823.9875         | 42.0           | 41.7               | CW        | E         | 1.2               | PB        | 0.450                             | 0.350            | 0.300                  |                           |       |       |       |        |        |        |                    |                         | 0.5                 | 0.367                   | 0.220  | 0.222  |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |                    |                         |                     |                         |        |        |
| Trunk    | HAF-4020A (806-941MHz) | 1.2                | NA                       | 823.9875         | 42.0           | 41.7               | CW        | E         | 1.2               | PF        | 0.160                             | 0.160            | 0.110                  |                           |       |       |       |        |        |        |                    |                         | 0.5                 | 0.143                   | 0.086  | 0.087  |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |                    |                         |                     |                         |        |        |
| Trunk    | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 62 cm)        | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.030 | 0.090 | 0.550  | 0.650  | 0.220  | 0.040              | 0.090                   | 0.090               | 0.177                   | 0.104  | 0.106  |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |                    |                         |                     |                         |        |        |
| Trunk    | HAF-4020A (806-941MHz) | 1.2                | NA                       | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | PB        | 0.320                             | 0.250            | 0.260                  |                           |       |       |       |        |        |        |                    |                         | 0.5                 | 0.277                   | 0.162  | 0.166  |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |                    |                         |                     |                         |        |        |
| Trunk    | HAF-4020A (806-941MHz) | 1.2                | NA                       | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | PF        | 0.370                             | 0.230            | 0.190                  |                           |       |       |       |        |        |        |                    |                         | 0.5                 | 0.263                   | 0.154  | 0.158  |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |                    |                         |                     |                         |        |        |

| Ant Loc | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |
|---------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|
|         |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |
| Trunk   | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 62 cm)        | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.030 | 0.090 | 0.560  | 0.880  | 0.290  | 0.040  | 0.100              | 0.090                   |                     |                         |        |        |
|         | HAF-4020A (806-941MHz) | 1.2                | NA                       | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | PB        |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     | 0.209                   | 0.120  | 0.124  |
| Trunk   | HAF-4020A (806-941MHz) | 1.2                | NA                       | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | PF        | 0.230                             | 0.190            | 0.110                  |                           |       |       |       |        |        |        |        |                    |                         |                     | 0.320                   | 0.184  | 0.190  |
|         | HAF-4020A (806-941MHz) | 1.2                |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
| Trunk   | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 62 cm)        | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.030 | 0.100 | 0.630  | 0.780  | 0.350  | 0.040  | 0.080              | 0.080                   | 0.5                 | 0.209                   | 0.119  | 0.125  |
|         | HAF-4020A (806-941MHz) | 1.2                | NA                       | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | PB        | 0.570                             | 0.220            | 0.240                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.343                   | 0.196  | 0.206  |
| Trunk   | HAF-4020A (806-941MHz) | 1.2                | NA                       | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | PF        | 0.150                             | 0.180            | 0.050                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.127                   | 0.072  | 0.076  |
|         | HAF-4020A (806-941MHz) | 1.2                |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
| Trunk   | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 62 cm)        | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.050 | 0.150 | 0.720  | 1.040  | 0.460  | 0.030  | 0.040              | 0.040                   | 0.5                 | 0.254                   | 0.141  | 0.145  |
|         | HAF-4020A (806-941MHz) | 1.2                | NA                       | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | PB        | 0.710                             | 0.290            | 0.280                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.427                   | 0.237  | 0.244  |
| Trunk   | HAF-4020A (806-941MHz) | 1.2                | NA                       | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | PF        |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |
|         | HAF-4020A (806-941MHz) | 1.2                |                          |                  |                |                    |           |           |                   |           | 0.060                             | 0.190            | 0.260                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.170                   | 0.094  | 0.097  |

| Ant Loc | Ant. Model/<br>Desc    | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |       |       |
|---------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|-------|-------|
|         |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |       |       |
| Trunk   | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 62 cm)        | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.050 | 0.140 | 0.660  | 1.030  | 0.440  | 0.030  | 0.050              | 0.040                   |                     |                         |        |        |       |       |
|         | HAF-4020A (806-941MHz) | 1.2                | NA                       | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | PB        | 0.730                             | 0.320            | 0.200                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        | 0.245  | 0.136 | 0.139 |
|         | HAF-4020A (806-941MHz) | 1.2                | NA                       | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | PF        | 0.080                             | 0.200            | 0.280                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        | 0.417  | 0.231 | 0.236 |
| Trunk   | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 62 cm)        | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.050 | 0.140 | 0.630  | 0.920  | 0.440  | 0.040  | 0.020              | 0.040                   | 0.5                 | 0.229                   | 0.126  | 0.129  |       |       |
|         | HAF-4020A (806-941MHz) | 1.2                | NA                       | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | PB        | 0.820                             | 0.330            | 0.280                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        | 0.477  | 0.262 | 0.269 |
|         | HAF-4020A (806-941MHz) | 1.2                | NA                       | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | PF        | 0.110                             | 0.150            | 0.270                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        | 0.177  | 0.097 | 0.100 |
| Trunk   | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 62 cm)        | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | BS        |                                   |                  |                        | 0.000                     | 0.020 | 0.060 | 0.090 | 0.550  | 0.700  | 0.210  | 0.000  | 0.010              | 0.000                   | 0.5                 | 0.164                   | 0.089  | 0.090  |       |       |
|         | HAF-4020A (806-941MHz) | 1.2                | NA                       | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | PB        | 0.380                             | 0.300            | 0.210                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        | 0.297  | 0.160 | 0.162 |
|         | HAF-4020A (806-941MHz) | 1.2                | NA                       | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | PF        | 0.170                             | 0.110            | 0.120                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        | 0.133  | 0.072 | 0.073 |

| Ant Loc | Ant. Model/<br>Desc    | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |
|---------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|
|         |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |
| Trunk   | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 62 cm)        | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | BS        |                                   |                  |                        | 0.000                     | 0.020 | 0.070 | 0.080 | 0.550  | 0.740  | 0.190  | 0.010  | 0.010              | 0.000                   |                     |                         |        |        |
|         | HAF-4020A (806-941MHz) | 1.2                | NA                       | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | PB        |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     | 0.5                     | 0.320  | 0.173  |
| Trunk   | HAF-4020A (806-941MHz) | 1.2                | NA                       | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | PF        | 0.150                             | 0.090            | 0.120                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.120                   | 0.065  | 0.065  |
| Trunk   | HAF-4020A (806-941MHz) | 1.2                | 60 (actual 62 cm)        | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | BS        |                                   |                  |                        | 0.000                     | 0.020 | 0.060 | 0.080 | 0.530  | 0.730  | 0.170  | 0.010  | 0.000              | 0.000                   |                     |                         |        |        |
|         | HAF-4020A (806-941MHz) | 1.2                | NA                       | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | PB        | 0.400                             | 0.330            | 0.250                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.327                   | 0.176  | 0.176  |
| Trunk   | HAF-4020A (806-941MHz) | 1.2                | NA                       | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | PF        | 0.140                             | 0.050            | 0.120                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.103                   | 0.056  | 0.056  |
| Trunk   | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 62 cm)        | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.030 | 0.070 | 0.420  | 0.650  | 0.550  | 0.380  | 0.170              | 0.050                   |                     |                         |        |        |
|         | HAF-4022A (806-941MHz) | 1.7                | NA                       | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | PB        | 0.260                             | 0.210            | 0.190                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.220                   | 0.134  | 0.135  |
| Trunk   | HAF-4022A (806-941MHz) | 1.7                | NA                       | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | PF        | 0.190                             | 0.060            | 0.030                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.093                   | 0.057  | 0.057  |

| Ant Loc. | Ant. Model/ Desc.     | Ant. Gain (dBi) | Ant. Meas. Dist. (cm) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                   |                         | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/ cm2) | Calc. P.D. (mW/ cm2) | Max Calc. P.D. (mW/ cm2) |        |        |
|----------|-----------------------|-----------------|-----------------------|---------------|-------------|-----------------|-----------|-----------|-------------------|-----------|-----------------------------------|-------------------|-------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|--------------------------|----------------------|--------------------------|--------|--------|
|          |                       |                 |                       |               |             |                 |           |           |                   |           | Head/ Top 1/3                     | Chest/ Middle 1/3 | Lower Trunk/ Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                          |                      |                          | 180 cm | 200 cm |
| Trunk    | HAF4022A (806-941MHz) | 1.7             | 60 (actual 62 cm)     | 815.0125      | 42.0        | 41.9            | CW        | E         | 1.21              | BS        |                                   |                   |                         | 0.000                     | 0.010 | 0.030 | 0.060 | 0.490  | 0.660  | 0.550  | 0.400  | 0.210              | 0.080                    | 0.5                  | 0.249                    | 0.151  | 0.151  |
|          | HAF4022A (806-941MHz) | 1.7             | NA                    | 815.0125      | 42.0        | 41.9            | CW        | E         | 1.21              | PB        | 0.280                             | 0.260             | 0.190                   |                           |       |       |       |        |        |        |        |                    |                          | 0.5                  | 0.243                    | 0.147  | 0.148  |
|          | HAF4022A (806-941MHz) | 1.7             | NA                    | 815.0125      | 42.0        | 41.9            | CW        | E         | 1.21              | PF        | 0.160                             | 0.080             | 0.060                   |                           |       |       |       |        |        |        |        |                    |                          | 0.5                  | 0.100                    | 0.061  | 0.061  |
| Trunk    | HAF4022A (806-941MHz) | 1.7             | 60 (actual 62 cm)     | 823.9875      | 42.0        | 41.7            | CW        | E         | 1.2               | BS        |                                   |                   |                         | 0.000                     | 0.010 | 0.020 | 0.060 | 0.370  | 0.550  | 0.450  | 0.360  | 0.210              | 0.080                    | 0.5                  | 0.211                    | 0.127  | 0.128  |
| Trunk    | HAF4022A (806-941MHz) | 1.7             | NA                    | 823.9875      | 42.0        | 41.7            | CW        | E         | 1.2               | PB        | 0.340                             | 0.230             | 0.180                   |                           |       |       |       |        |        |        |        |                    |                          | 0.5                  | 0.250                    | 0.150  | 0.151  |
| Trunk    | HAF4022A (806-941MHz) | 1.7             | NA                    | 823.9875      | 42.0        | 41.7            | CW        | E         | 1.2               | PF        | 0.080                             | 0.080             | 0.070                   |                           |       |       |       |        |        |        |        |                    |                          | 0.5                  | 0.077                    | 0.046  | 0.046  |
| Trunk    | HAF4022A (806-941MHz) | 1.7             | 60 (actual 62 cm)     | 851.0125      | 42.0        | 41.0            | CW        | E         | 1.17              | BS        |                                   |                   |                         | 0.000                     | 0.000 | 0.020 | 0.060 | 0.330  | 0.460  | 0.440  | 0.320  | 0.210              | 0.100                    | 0.5                  | 0.194                    | 0.113  | 0.116  |
| Trunk    | HAF4022A (806-941MHz) | 1.7             | NA                    | 851.0125      | 42.0        | 41.0            | CW        | E         | 1.17              | PB        | 0.210                             | 0.190             | 0.160                   |                           |       |       |       |        |        |        |        |                    |                          | 0.5                  | 0.187                    | 0.109  | 0.112  |
| Trunk    | HAF4022A (806-941MHz) | 1.7             | NA                    | 851.0125      | 42.0        | 41.0            | CW        | E         | 1.17              | PF        | 0.210                             | 0.110             | 0.130                   |                           |       |       |       |        |        |        |        |                    |                          | 0.5                  | 0.150                    | 0.088  | 0.090  |

| Ant Loc. | Ant. Model/<br>Desc.   | Ant. Gain<br>(dB) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) |                  |                        | By Sander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |       |       |  |  |  |  |  |  |  |  |
|----------|------------------------|-------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-------------------------|------------------|------------------------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|-------|-------|--|--|--|--|--|--|--|--|
|          |                        |                   |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3            | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                    | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |       |       |  |  |  |  |  |  |  |  |
| Trunk    | HAF-4022A (806-941MHz) | 1.7               | 60 (actual 62 cm)        | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | BS        |                         |                  |                        |                          | 0.000 | 0.000 | 0.020 | 0.060  | 0.370  | 0.480  | 0.390  | 0.270              | 0.190                   | 0.110               | 0.5                     | 0.189  | 0.109  | 0.112 |       |  |  |  |  |  |  |  |  |
|          |                        |                   |                          |                  |                |                    |           |           |                   |           |                         |                  |                        |                          |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |       |       |  |  |  |  |  |  |  |  |
|          |                        |                   |                          |                  |                |                    |           |           |                   |           |                         |                  |                        |                          |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |       |       |  |  |  |  |  |  |  |  |
|          |                        |                   |                          |                  |                |                    |           |           |                   |           |                         |                  |                        |                          |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |       |       |  |  |  |  |  |  |  |  |
| Trunk    | HAF-4022A (806-941MHz) | 1.7               | NA                       | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | PF        | 0.140                   | 0.070            | 0.080                  |                          |       |       |       |        |        |        |        |                    |                         |                     | 0.5                     | 0.097  | 0.056  | 0.058 |       |  |  |  |  |  |  |  |  |
| Trunk    | HAF-4022A (806-941MHz) | 1.7               | 60 (actual 62 cm)        | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | BS        |                         |                  |                        |                          | 0.000 | 0.000 | 0.020 | 0.070  | 0.350  | 0.520  | 0.510  | 0.300              | 0.180                   | 0.100               | 0.5                     | 0.205  | 0.117  | 0.123 |       |  |  |  |  |  |  |  |  |
| Trunk    | HAF-4022A (806-941MHz) | 1.7               | NA                       | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | PB        | 0.260                   | 0.140            | 0.170                  |                          |       |       |       |        |        |        |        |                    |                         |                     |                         | 0.5    | 0.190  | 0.108 | 0.114 |  |  |  |  |  |  |  |  |
| Trunk    | HAF-4022A (806-941MHz) | 1.7               | NA                       | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | PF        | 0.130                   | 0.070            | 0.040                  |                          |       |       |       |        |        |        |        |                    |                         |                     |                         | 0.5    | 0.080  | 0.046 | 0.048 |  |  |  |  |  |  |  |  |
| Trunk    | HAF-4022A (806-941MHz) | 1.7               | 60 (actual 62 cm)        | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | BS        |                         |                  |                        |                          | 0.000 | 0.010 | 0.030 | 0.090  | 0.420  | 0.630  | 0.640  | 0.340              | 0.140                   | 0.070               | 0.5                     | 0.237  | 0.132  | 0.135 |       |  |  |  |  |  |  |  |  |
| Trunk    | HAF-4022A (806-941MHz) | 1.7               | NA                       | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | PB        | 0.440                   | 0.150            | 0.130                  |                          |       |       |       |        |        |        |        |                    |                         |                     |                         | 0.5    | 0.240  | 0.133 | 0.137 |  |  |  |  |  |  |  |  |
| Trunk    | HAF-4022A (806-941MHz) | 1.7               | NA                       | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | PF        | 0.060                   | 0.060            | 0.130                  |                          |       |       |       |        |        |        |        |                    |                         |                     |                         | 0.5    | 0.083  | 0.046 | 0.048 |  |  |  |  |  |  |  |  |

| Ant Loc. | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                   |                         | By Stander (BS) Positions |       |       |       |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |        |       |       |       |
|----------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|-------------------|-------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|--------|-------|-------|-------|
|          |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/ Top 1/3                     | Chest/ Middle 1/3 | Lower Trunk/ Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm |                    |                         |                     |                         | 160 cm | 180 cm | 200 cm |       |       |       |
| Trunk    | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 62 cm)        | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | BS        |                                   |                   |                         | 0.000                     | 0.000 | 0.030 | 0.090 | 0.390  | 0.560  | 0.600  | 0.320              | 0.130                   | 0.060               |                         |        |        |        |       |       |       |
|          |                        | 1.7                | NA                       | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | PB        | 0.350                             | 0.130             | 0.130                   |                           |       |       |       |        |        |        |                    |                         |                     |                         |        |        | 0.5    | 0.203 | 0.113 | 0.115 |
| Trunk    | HAF-4022A (806-941MHz) | 1.7                | NA                       | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | PF        | 0.040                             | 0.100             | 0.140                   |                           |       |       |       |        |        |        |                    |                         |                     |                         |        |        | 0.5    | 0.093 | 0.052 | 0.053 |
| Trunk    | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 62 cm)        | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | BS        |                                   |                   |                         | 0.000                     | 0.000 | 0.020 | 0.080 | 0.310  | 0.510  | 0.590  | 0.300              | 0.100                   | 0.050               |                         |        |        |        | 0.196 | 0.108 | 0.111 |
| Trunk    | HAF-4022A (806-941MHz) | 1.7                | NA                       | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | PB        | 0.340                             | 0.130             | 0.140                   |                           |       |       |       |        |        |        |                    |                         |                     |                         |        |        | 0.5    | 0.203 | 0.112 | 0.115 |
| Trunk    | HAF-4022A (806-941MHz) | 1.7                | NA                       | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | PF        | 0.050                             | 0.030             | 0.140                   |                           |       |       |       |        |        |        |                    |                         |                     |                         |        |        | 0.5    | 0.073 | 0.040 | 0.041 |
| Trunk    | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 62 cm)        | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | BS        |                                   |                   |                         | 0.000                     | 0.010 | 0.030 | 0.050 | 0.370  | 0.440  | 0.460  | 0.270              | 0.110                   | 0.030               |                         |        |        |        | 0.177 | 0.096 | 0.097 |
| Trunk    | HAF-4022A (806-941MHz) | 1.7                | NA                       | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | PB        | 0.160                             | 0.090             | 0.130                   |                           |       |       |       |        |        |        |                    |                         |                     |                         |        |        | 0.5    | 0.127 | 0.068 | 0.069 |
| Trunk    | HAF-4022A (806-941MHz) | 1.7                | NA                       | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | PF        | 0.060                             | 0.050             | 0.060                   |                           |       |       |       |        |        |        |                    |                         |                     |                         |        |        | 0.5    | 0.057 | 0.031 | 0.031 |

| Ant Loc. | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |
|----------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|
|          |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm |
| Trunk    | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 62 cm)        | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.030 | 0.050 | 0.250  | 0.430  | 0.390  | 0.240  | 0.100              | 0.040                   | 0.5                 | 0.154                   | 0.083  |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |
| Trunk    | HAF-4022A (806-941MHz) | 1.7                | NA                       | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | PB        | 0.150                             | 0.080            | 0.110                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.113                   | 0.061  |
| Trunk    | HAF-4022A (806-941MHz) | 1.7                | NA                       | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | PF        | 0.050                             | 0.020            | 0.030                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.033                   | 0.018  |
| Trunk    | HAF-4022A (806-941MHz) | 1.7                | 60 (actual 62 cm)        | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.030 | 0.040 | 0.230  | 0.430  | 0.400  | 0.240  | 0.100              | 0.030                   | 0.5                 | 0.151                   | 0.082  |
| Trunk    | HAF-4022A (806-941MHz) | 1.7                | NA                       | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | PB        | 0.150                             | 0.070            | 0.110                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.110                   | 0.059  |
| Trunk    | HAF-4022A (806-941MHz) | 1.7                | NA                       | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | PF        | 0.050                             | 0.020            | 0.060                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.043                   | 0.023  |
| Trunk    | HAF-4023A (806-941MHz) | 2                  | 60 (actual 62 cm)        | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | BS        |                                   |                  |                        | 0.010                     | 0.010 | 0.040 | 0.080 | 0.570  | 0.720  | 0.140  | 0.440  | 0.190              | 0.020                   | 0.5                 | 0.222                   | 0.135  |
| Trunk    | HAF-4023A (806-941MHz) | 2                  | NA                       | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | PB        | 0.640                             | 0.640            | 0.330                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.537                   | 0.327  |
| Trunk    | HAF-4023A (806-941MHz) | 2                  | NA                       | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | PF        | 0.350                             | 0.230            | 0.110                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.230                   | 0.140  |
| Trunk    | HAF-4023A (806-941MHz) | 2                  | NA                       | 806.0125         | 42.0           | 41.9               | CW        | E         | 1.22              | PF        | 0.350                             | 0.230            | 0.110                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.230                   | 0.141  |

| Ant Loc. | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |       |       |
|----------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|-------|-------|
|          |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |       |       |
| Trunk    | HAF-4023A (806-941MHz) | 2                  | 60 (actual 62 cm)        | 815.0125         | 42.0           | 41.9               | CW        | E         | 1.21              | BS        |                                   |                  |                        |                           | 0.000 | 0.010 | 0.030 | 0.080  | 0.550  | 0.870  | 0.180  | 0.390              | 0.210                   | 0.040               | 0.5                     | 0.236  | 0.143  |       |       |
|          |                        |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |       |       |
| Trunk    | HAF-4023A (806-941MHz) | 2                  | NA                       | 815.0125         | 42.0           | 41.9               | CW        | E         | 1.21              | PB        | 0.670                             | 0.530            | 0.370                  |                           |       |       |       |        |        |        |        |                    |                         |                     | 0.5                     | 0.523  | 0.317  |       |       |
| Trunk    | HAF-4023A (806-941MHz) | 2                  | NA                       | 815.0125         | 42.0           | 41.9               | CW        | E         | 1.21              | PF        | 0.340                             | 0.200            | 0.130                  |                           |       |       |       |        |        |        |        |                    |                         |                     | 0.5                     | 0.223  | 0.135  |       |       |
| Trunk    | HAF-4023A (806-941MHz) | 2                  | 60 (actual 62 cm)        | 823.9875         | 42.0           | 41.7               | CW        | E         | 1.2               | BS        |                                   |                  |                        |                           | 0.000 | 0.000 | 0.020 | 0.070  | 0.500  | 0.720  | 0.160  | 0.270              | 0.210                   | 0.040               | 0.5                     | 0.199  | 0.119  | 0.120 |       |
| Trunk    | HAF-4023A (806-941MHz) | 2                  | NA                       | 823.9875         | 42.0           | 41.7               | CW        | E         | 1.2               | PB        | 0.540                             | 0.480            | 0.420                  |                           |       |       |       |        |        |        |        |                    |                         |                     | 0.5                     | 0.480  | 0.288  | 0.290 |       |
| Trunk    | HAF-4023A (806-941MHz) | 2                  | NA                       | 823.9875         | 42.0           | 41.7               | CW        | E         | 1.2               | PF        | 0.240                             | 0.210            | 0.170                  |                           |       |       |       |        |        |        |        |                    |                         |                     | 0.5                     | 0.207  | 0.124  | 0.125 |       |
| Trunk    | HAF-4023A (806-941MHz) | 2                  | 60 (actual 62 cm)        | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | BS        |                                   |                  |                        |                           | 0.000 | 0.010 | 0.020 | 0.050  | 0.450  | 0.780  | 0.270  | 0.150              | 0.140                   | 0.040               | 0.5                     | 0.191  | 0.112  | 0.114 |       |
| Trunk    | HAF-4023A (806-941MHz) | 2                  | NA                       | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | PB        | 0.380                             | 0.360            | 0.330                  |                           |       |       |       |        |        |        |        |                    |                         |                     |                         | 0.5    | 0.357  | 0.209 | 0.214 |
| Trunk    | HAF-4023A (806-941MHz) | 2                  | NA                       | 851.0125         | 42.0           | 41.0               | CW        | E         | 1.17              | PF        | 0.500                             | 0.240            | 0.200                  |                           |       |       |       |        |        |        |        |                    |                         |                     | 0.5                     | 0.313  | 0.183  | 0.188 |       |

| Ant Loc | Ant. Model/<br>Desc.   | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |
|---------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|
|         |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |
| Trunk   | HAF-4023A (806-941MHz) | 2                  | 60 (actual 62 cm)        | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.020 | 0.050 | 0.520  | 0.990  | 0.350  | 0.100  | 0.150              | 0.030                   | 0.221               | 0.127                   | 0.131  |        |
|         | HAF-4023A (806-941MHz) | 2                  | NA                       | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | PB        | 0.420                             | 0.240            | 0.360                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.340                   | 0.196  | 0.202  |
| Trunk   | HAF-4023A (806-941MHz) | 2                  | NA                       | 860.0125         | 42.0           | 40.6               | CW        | E         | 1.15              | PF        | 0.290                             | 0.110            | 0.130                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.177                   | 0.102  | 0.105  |
|         | HAF-4023A (806-941MHz) | 2                  | 60 (actual 62 cm)        | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.020 | 0.080 | 0.550  | 1.060  | 0.350  | 0.090  | 0.100              | 0.030                   | 0.229               | 0.131                   | 0.137  |        |
| Trunk   | HAF-4023A (806-941MHz) | 2                  | NA                       | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | PB        | 0.520                             | 0.270            | 0.240                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.343                   | 0.196  | 0.206  |
|         | HAF-4023A (806-941MHz) | 2                  | NA                       | 868.9875         | 42.0           | 39.9               | CW        | E         | 1.14              | PF        | 0.220                             | 0.210            | 0.070                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.167                   | 0.095  | 0.100  |
| Trunk   | HAF-4023A (806-941MHz) | 2                  | 60 (actual 62 cm)        | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.030 | 0.120 | 0.600  | 1.110  | 0.400  | 0.060  | 0.050              | 0.010                   | 0.239               | 0.133                   | 0.136  |        |
|         | HAF-4023A (806-941MHz) | 2                  | NA                       | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | PB        | 0.760                             | 0.300            | 0.360                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.473                   | 0.263  | 0.270  |
| Trunk   | HAF-4023A (806-941MHz) | 2                  | NA                       | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | PF        | 0.080                             | 0.150            | 0.230                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.153                   | 0.085  | 0.088  |
|         | HAF-4023A (806-941MHz) | 2                  | NA                       | 896.0125         | 36.0           | 35.0               | CW        | E         | 1.11              | PF        |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |

| Ant Loc | Ant. Model/<br>Desc    | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |
|---------|------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|
|         |                        |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |
| Trunk   | HAF-4023A (806-941MHz) | 2                  | 60 (actual 62 cm)        | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.040 | 0.120 | 0.580  | 1.040  | 0.390  | 0.070  | 0.050              | 0.010                   | 0.231               | 0.128                   | 0.131  |        |
|         | HAF-4023A (806-941MHz) | 2                  | NA                       | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | PB        | 0.760                             | 0.280            | 0.240                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.427                   | 0.237  | 0.241  |
| Trunk   | HAF-4023A (806-941MHz) | 2                  | NA                       | 898.0125         | 36.0           | 35.3               | CW        | E         | 1.11              | PF        | 0.080                             | 0.220            | 0.230                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.177                   | 0.098  | 0.100  |
|         | HAF-4023A (806-941MHz) | 2                  | 60 (actual 62 cm)        | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.030 | 0.100 | 0.540  | 0.980  | 0.350  | 0.070  | 0.040              | 0.010                   | 0.212               | 0.117                   | 0.120  |        |
| Trunk   | HAF-4023A (806-941MHz) | 2                  | NA                       | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | PB        | 0.740                             | 0.320            | 0.310                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.457                   | 0.251  | 0.258  |
|         | HAF-4023A (806-941MHz) | 2                  | NA                       | 900.9875         | 36.0           | 35.1               | CW        | E         | 1.1               | PF        | 0.130                             | 0.130            | 0.290                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.183                   | 0.101  | 0.103  |
| Trunk   | HAF-4023A (806-941MHz) | 2                  | 60 (actual 62 cm)        | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | BS        |                                   |                  |                        | 0.000                     | 0.020 | 0.040 | 0.070 | 0.440  | 0.820  | 0.220  | 0.060  | 0.020              | 0.010                   | 0.170               | 0.092                   | 0.093  |        |
|         | HAF-4023A (806-941MHz) | 2                  | NA                       | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | PB        | 0.370                             | 0.280            | 0.200                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.283                   | 0.153  | 0.155  |
| Trunk   | HAF-4023A (806-941MHz) | 2                  | NA                       | 935.0125         | 36.0           | 35.6               | CW        | E         | 1.08              | PF        | 0.140                             | 0.040            | 0.090                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.090                   | 0.049  | 0.049  |
|         | HAF-4023A (806-941MHz) | 2                  |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |

| Ant Loc.                                                                       | Ant. Model/<br>Desc.                                                           | Ant. Gain<br>(dBi) | Ant. Meas.<br>Dist. (cm) | Tx Freq<br>(MHz) | Max Pwr<br>(W) | Initial Pwr<br>(W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions |                  |                        | By Stander (BS) Positions |       |       |       |        |        |        |        | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |        |        |  |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------|--------------------------|------------------|----------------|--------------------|-----------|-----------|-------------------|-----------|-----------------------------------|------------------|------------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|--------|--------|--|
|                                                                                |                                                                                |                    |                          |                  |                |                    |           |           |                   |           | Head/Top 1/3                      | Chest/Middle 1/3 | Lower Trunk/Bottom 1/3 | 20 cm                     | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm |                    |                         |                     |                         | 180 cm | 200 cm |  |
| Trunk                                                                          | HAF-4023A (806-941MHz)                                                         | 2                  | 60 (actual 62 cm)        | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.030 | 0.050 | 0.430  | 0.760  | 0.190  | 0.060  | 0.010              | 0.000                   |                     |                         |        |        |  |
|                                                                                | HAF-4023A (806-941MHz)                                                         | 2                  | NA                       | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | PB        | 0.340                             | 0.220            | 0.210                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.257                   | 0.139  | 0.139  |  |
|                                                                                | HAF-4023A (806-941MHz)                                                         | 2                  | NA                       | 937.0125         | 36.0           | 35.9               | CW        | E         | 1.08              | PF        | 0.130                             | 0.100            | 0.090                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.107                   | 0.058  | 0.058  |  |
| Trunk                                                                          | HAF-4023A (806-941MHz)                                                         | 2                  | 60 (actual 62 cm)        | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | BS        |                                   |                  |                        | 0.000                     | 0.010 | 0.040 | 0.050 | 0.390  | 0.740  | 0.190  | 0.050  | 0.030              | 0.000                   |                     |                         |        |        |  |
|                                                                                | HAF-4023A (806-941MHz)                                                         | 2                  | NA                       | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | PB        | 0.360                             | 0.280            | 0.220                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.287                   | 0.155  | 0.155  |  |
|                                                                                | HAF-4023A (806-941MHz)                                                         | 2                  | NA                       | 939.9875         | 36.0           | 36.0               | CW        | E         | 1.08              | PF        | 0.130                             | 0.110            | 0.110                  |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.117                   | 0.063  | 0.063  |  |
| 45 Degree - using the highest Calc MPE test result configuration at the trunk. |                                                                                |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |
| Trunk                                                                          | HAF-4022A (806-941MHz)                                                         | 1.7                | 60 (actual 104 cm)       | 815.0125         | 42.0           | 41.9               | CW        | E         | 1.21              | BS        |                                   |                  |                        | 0.000                     | 0.000 | 0.020 | 0.060 | 0.150  | 0.240  | 0.320  | 0.240  | 0.150              | 0.100                   |                     |                         |        |        |  |
|                                                                                | 90 Degree - using the highest Calc MPE test result configuration at the trunk. |                    |                          |                  |                |                    |           |           |                   |           |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         |                     |                         |        |        |  |
|                                                                                | HAF-4022A (806-941MHz)                                                         | 1.7                | 60 (actual 110.5 cm)     | 815.0125         | 42.0           | 41.9               | CW        | E         | 1.21              | BS        |                                   |                  |                        |                           |       |       |       |        |        |        |        |                    |                         | 0.5                 | 0.117                   | 0.071  | 0.071  |  |