

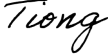


| | |
|--|--|
|  MOTOROLA SOLUTIONS |  MS ISO/IEC 17025 TESTING SAMM No.0826 |
| DECLARATION OF COMPLIANCE: MPE ASSESSMENT Report Part 3 of 3 | |
| Motorola Solutions EME Test Laboratory Motorola Solutions Malaysia Sdn Bhd (Innoplex) Plot 2A, Medan Bayan Lepas, Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia. | Date of Report: 2/5/2018 Report Revision: B |
| <p> Responsible Engineer: Saw Sun Hock (EME Engineer) Report author: Saw Sun Hock (EME Engineer) Date(s) Tested: 2/15/2017-3/27/2017 Manufacturer: Futurecom Systems Group Date submitted for test: 01/13/2017 DUT Description: DVR UHF (380-512 MHz), Digital Vehicular Repeater Companion Mobile: APX8500 mobile All Bands (VHF, UHF, 7/800) Test TX mode(s): CW (for FM), 802.11 b/g/n (for WLAN) Max. Power output: DVR: 10W (100% duty cycle) Companion Mobile: 50% duty cycle, PTT with below maximum output power 60W (136-174 MHz), 54W (380-484 MHz), 48W (485-512 MHz), 30W (512-520 MHz), 36W (764-805 MHz), 42W (806-870 MHz); 10mW (Bluetooth); 2.5mW (Bluetooth LE); 63.1 mW (WLAN 802.11b), 20 mW (WLAN 802.11g/n) TX Frequency Bands: DVR: 380-512 MHz Companion Mobile: 136-174 MHz; 380-520 MHz; 764-805 MHz; 806-870 MHz; WLAN 2400-2483.5 MHz; Bluetooth 2402-2480 MHz Signaling type: FM, TDMA, 802.11b/g/n (WLAN) Model(s) Tested: DVR: MOBEXCOM DVRS UHF (DQPM DVR4000P, DQPM D VR5000P, DQPM D VR6000P) Companion Mobile: M37TSS9PW1AN Model(s) Certified: MOBEXCOM DVRS UHF (DQPM D VR4000P, DQPM D VR5000P, DQPM D VR6000P) Serial Number(s): 16102684; 16030465; 16102751 (DVR) , KLDORDDUC (Companion Mobile) Classification: Occupational/Controlled Environment FCC ID: DVR: LO6-DVRSUHF 406.1-512 MHz Companion Mobile: AZ492FT7089 150.8-173.4 MHz, 406.1-512 MHz, 769-775 MHz, 799-824 MHz, 851-869 MHz, 2402-2480 MHz, 2412-2462 MHz This report contains results that are immaterial for FCC equipment approval, which are clearly identified. IC: DVR:2098B-DVRSUHF Companion Mobile:109U-92FT7089 This report contains results that are immaterial for ISED Canada equipment approval, which are clearly identified. The MPE results clearly demonstrate compliance with FCC Occupational/Controlled RF Exposure limits. FCC rules require compliance for Passengers and Bystanders to the FCC General Population/Uncontrolled limits. </p> | |
| <p> 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 Solutions Inc. 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. </p> | |
|  Tiong Nguk Ing Deputy Technical Manager Approval Date: 2/10/2018 | |

Appendix I – MPE Measurement Results for DVR UHF

Table I.1

DVR UHF - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |
|--------------|---------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 406.5000 | 10.00 | 9.68 | CW | E | 0.99 | BS1 | 0.001 | 0.001 | 0.002 | 0.003 | 0.007 | 0.007 | 0.007 | 0.008 | 0.007 | 0.008 | 1.0 | 0.005 | 0.005 | 0.005 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 417.5000 | 10.00 | 9.90 | CW | E | 0.99 | BS1 | 0.002 | 0.003 | 0.002 | 0.003 | 0.005 | 0.006 | 0.007 | 0.009 | 0.011 | 0.011 | 1.0 | 0.006 | 0.006 | 0.006 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 429.9875 | 10.00 | 9.60 | CW | E | 1.00 | BS1 | 0.002 | 0.004 | 0.003 | 0.003 | 0.005 | 0.008 | 0.010 | 0.011 | 0.011 | 0.013 | 1.0 | 0.007 | 0.007 | 0.007 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 406.5000 | 10.00 | 9.68 | CW | E | 0.99 | BS2 | 0.002 | 0.003 | 0.009 | 0.012 | 0.012 | 0.013 | 0.019 | 0.029 | 0.027 | 0.027 | 1.0 | 0.015 | 0.02 | 0.016 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 417.5000 | 10.00 | 9.90 | CW | E | 0.99 | BS2 | 0.001 | 0.002 | 0.006 | 0.008 | 0.015 | 0.022 | 0.024 | 0.026 | 0.022 | 0.023 | 1.0 | 0.015 | 0.01 | 0.015 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 429.9875 | 10.00 | 9.60 | CW | E | 1.00 | BS2 | 0.002 | 0.005 | 0.008 | 0.009 | 0.010 | 0.017 | 0.022 | 0.023 | 0.025 | 0.022 | 1.0 | 0.014 | 0.01 | 0.015 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 406.5000 | 10.00 | 9.68 | CW | E | 0.99 | BS3 | 0.007 | 0.007 | 0.009 | 0.014 | 0.015 | 0.022 | 0.030 | 0.033 | 0.035 | 0.037 | 1.0 | 0.021 | 0.02 | 0.021 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 417.5000 | 10.00 | 9.90 | CW | E | 0.99 | BS3 | 0.005 | 0.006 | 0.007 | 0.014 | 0.018 | 0.022 | 0.030 | 0.034 | 0.037 | 0.034 | 1.0 | 0.021 | 0.02 | 0.021 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 429.9875 | 10.00 | 9.60 | CW | E | 1.00 | BS3 | 0.008 | 0.009 | 0.010 | 0.015 | 0.021 | 0.033 | 0.036 | 0.035 | 0.036 | 0.045 | 1.0 | 0.025 | 0.02 | 0.026 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 406.5000 | 10.00 | 9.68 | CW | E | 0.99 | BS4 | 0.012 | 0.015 | 0.019 | 0.030 | 0.041 | 0.047 | 0.060 | 0.059 | 0.065 | 0.054 | 1.0 | 0.040 | 0.040 | 0.041 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 417.5000 | 10.00 | 9.90 | CW | E | 0.99 | BS4 | 0.011 | 0.014 | 0.020 | 0.031 | 0.041 | 0.058 | 0.063 | 0.059 | 0.046 | 0.048 | 1.0 | 0.039 | 0.04 | 0.039 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 429.9875 | 10.00 | 9.60 | CW | E | 1.00 | BS4 | 0.012 | 0.015 | 0.019 | 0.026 | 0.035 | 0.041 | 0.045 | 0.050 | 0.052 | 0.045 | 1.0 | 0.034 | 0.03 | 0.035 |

MPE calculations are defined in section 14.0.

Table I.1 (Continued)
DVR UHF - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm ²) | Calc. P.D. (mW/cm ²) | Max Calc. P.D. (mW/cm ²) |
|--------------|---------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|--------------------------------------|----------------------------------|--------------------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 406.5000 | 10.00 | 9.68 | CW | E | 0.99 | BS5 | 0.022 | 0.022 | 0.022 | 0.023 | 0.026 | 0.033 | 0.050 | 0.060 | 0.051 | 0.041 | 1.0 | 0.035 | 0.03 | 0.036 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 417.5000 | 10.00 | 9.90 | CW | E | 0.99 | BS5 | 0.014 | 0.016 | 0.017 | 0.017 | 0.021 | 0.023 | 0.033 | 0.033 | 0.039 | 0.046 | 1.0 | 0.026 | 0.03 | 0.026 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 429.9875 | 10.00 | 9.60 | CW | E | 1.00 | BS5 | 0.016 | 0.014 | 0.014 | 0.014 | 0.017 | 0.025 | 0.027 | 0.032 | 0.029 | 0.036 | 1.0 | 0.022 | 0.02 | 0.023 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 450.0000 | 10.00 | 9.96 | CW | E | 1.02 | BS1 | 0.002 | 0.004 | 0.004 | 0.006 | 0.008 | 0.011 | 0.012 | 0.016 | 0.014 | 0.016 | 1.0 | 0.009 | 0.01 | 0.010 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 460.0000 | 10.00 | 9.90 | CW | E | 1.03 | BS1 | 0.001 | 0.003 | 0.003 | 0.004 | 0.007 | 0.01 | 0.012 | 0.011 | 0.011 | 0.01 | 1.0 | 0.007 | 0.01 | 0.007 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 470.0000 | 10.00 | 10.00 | CW | E | 1.04 | BS1 | 0.002 | 0.002 | 0.002 | 0.002 | 0.004 | 0.007 | 0.008 | 0.01 | 0.006 | 0.009 | 1.0 | 0.005 | 0.01 | 0.005 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 450.0000 | 10.00 | 9.96 | CW | E | 1.02 | BS2 | 0.002 | 0.005 | 0.006 | 0.006 | 0.009 | 0.013 | 0.018 | 0.021 | 0.022 | 0.023 | 1.0 | 0.013 | 0.01 | 0.013 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 460.0000 | 10.00 | 9.90 | CW | E | 1.03 | BS2 | 0.002 | 0.003 | 0.005 | 0.005 | 0.01 | 0.015 | 0.021 | 0.022 | 0.024 | 0.027 | 1.0 | 0.013 | 0.01 | 0.014 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 470.0000 | 10.00 | 10.00 | CW | E | 1.04 | BS2 | 0.002 | 0.003 | 0.003 | 0.004 | 0.009 | 0.015 | 0.019 | 0.018 | 0.02 | 0.027 | 1.0 | 0.012 | 0.01 | 0.012 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 450.0000 | 10.00 | 9.96 | CW | E | 1.02 | BS3 | 0.009 | 0.01 | 0.014 | 0.022 | 0.027 | 0.035 | 0.037 | 0.039 | 0.04 | 0.038 | 1.0 | 0.027 | 0.03 | 0.028 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 460.0000 | 10.00 | 9.90 | CW | E | 1.03 | BS3 | 0.009 | 0.009 | 0.013 | 0.018 | 0.024 | 0.032 | 0.033 | 0.033 | 0.044 | 0.038 | 1.0 | 0.025 | 0.03 | 0.026 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 470.0000 | 10.00 | 10.00 | CW | E | 1.04 | BS3 | 0.007 | 0.007 | 0.012 | 0.017 | 0.022 | 0.035 | 0.045 | 0.047 | 0.04 | 0.028 | 1.0 | 0.026 | 0.03 | 0.027 |

MPE calculations are defined in section 14.0.

Table I.1 (Continued)
DVR UHF - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm ²) | Calc. P.D. (mW/cm ²) | Max Calc. P.D. (mW/cm ²) |
|--------------|---------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|--------------------------------------|----------------------------------|--------------------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 450.0000 | 10.00 | 9.96 | CW | E | 1.02 | BS4 | 0.014 | 0.017 | 0.023 | 0.031 | 0.04 | 0.047 | 0.053 | 0.073 | 0.078 | 0.061 | 1.0 | 0.044 | 0.045 | 0.045 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 460.0000 | 10.00 | 9.90 | CW | E | 1.03 | BS4 | 0.01 | 0.013 | 0.015 | 0.021 | 0.025 | 0.035 | 0.05 | 0.062 | 0.062 | 0.057 | 1.0 | 0.035 | 0.04 | 0.036 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 470.0000 | 10.00 | 10.00 | CW | E | 1.04 | BS4 | 0.013 | 0.015 | 0.02 | 0.027 | 0.027 | 0.036 | 0.047 | 0.064 | 0.059 | 0.059 | 1.0 | 0.037 | 0.04 | 0.038 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 450.0000 | 10.00 | 9.96 | CW | E | 1.02 | BS5 | 0.015 | 0.012 | 0.012 | 0.018 | 0.028 | 0.038 | 0.033 | 0.039 | 0.041 | 0.032 | 1.0 | 0.027 | 0.03 | 0.027 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 460.0000 | 10.00 | 9.90 | CW | E | 1.03 | BS5 | 0.01 | 0.009 | 0.009 | 0.016 | 0.024 | 0.04 | 0.041 | 0.039 | 0.037 | 0.031 | 1.0 | 0.026 | 0.03 | 0.027 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 470.0000 | 10.00 | 10.00 | CW | E | 1.04 | BS5 | 0.009 | 0.009 | 0.012 | 0.02 | 0.036 | 0.041 | 0.044 | 0.045 | 0.03 | 0.029 | 1.0 | 0.028 | 0.03 | 0.029 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 470.0000 | 10.00 | 10.00 | CW | E | 1.04 | BS1 | 0.001 | 0.002 | 0.001 | 0.002 | 0.004 | 0.006 | 0.008 | 0.011 | 0.009 | 0.011 | 1.0 | 0.006 | 0.01 | 0.006 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 484.0000 | 10.00 | 9.61 | CW | E | 1.05 | BS1 | 0.002 | 0.002 | 0.001 | 0.003 | 0.005 | 0.006 | 0.008 | 0.009 | 0.009 | 0.011 | 1.0 | 0.006 | 0.01 | 0.006 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 498.0000 | 10.00 | 9.83 | CW | E | 1.06 | BS1 | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.006 | 0.007 | 0.01 | 0.011 | 1.0 | 0.005 | 0.01 | 0.005 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 512.0000 | 10.00 | 9.75 | CW | E | 1.06 | BS1 | 0.004 | 0.004 | 0.004 | 0.005 | 0.004 | 0.005 | 0.007 | 0.008 | 0.009 | 0.015 | 1.0 | 0.007 | 0.01 | 0.007 |

MPE calculations are defined in section 14.0.

Table I.1 (Continued)
DVR UHF - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm ²) | Calc. P.D. (mW/cm ²) | Max Calc. P.D. (mW/cm ²) |
|--------------|---------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|--------------------------------------|----------------------------------|--------------------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 470.0000 | 10.00 | 10.00 | CW | E | 1.04 | BS2 | 0.002 | 0.003 | 0.003 | 0.004 | 0.007 | 0.01 | 0.014 | 0.017 | 0.019 | 0.024 | 1.0 | 0.010 | 0.01 | 0.011 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 484.0000 | 10.00 | 9.61 | CW | E | 1.05 | BS2 | 0.004 | 0.005 | 0.005 | 0.007 | 0.009 | 0.015 | 0.017 | 0.018 | 0.022 | 0.033 | 1.0 | 0.014 | 0.01 | 0.015 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 498.0000 | 10.00 | 9.83 | CW | E | 1.06 | BS2 | 0.003 | 0.003 | 0.006 | 0.01 | 0.012 | 0.014 | 0.019 | 0.027 | 0.034 | 0.035 | 1.0 | 0.016 | 0.02 | 0.018 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 512.0000 | 10.00 | 9.75 | CW | E | 1.06 | BS2 | 0.004 | 0.006 | 0.009 | 0.014 | 0.019 | 0.024 | 0.034 | 0.039 | 0.04 | 0.036 | 1.0 | 0.023 | 0.02 | 0.024 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 470.0000 | 10.00 | 10.00 | CW | E | 1.04 | BS3 | 0.007 | 0.007 | 0.012 | 0.016 | 0.025 | 0.033 | 0.041 | 0.044 | 0.039 | 0.029 | 1.0 | 0.025 | 0.03 | 0.026 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 484.0000 | 10.00 | 9.61 | CW | E | 1.05 | BS3 | 0.007 | 0.008 | 0.012 | 0.019 | 0.029 | 0.029 | 0.033 | 0.042 | 0.042 | 0.036 | 1.0 | 0.026 | 0.03 | 0.028 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 498.0000 | 10.00 | 9.83 | CW | E | 1.06 | BS3 | 0.007 | 0.007 | 0.011 | 0.015 | 0.021 | 0.028 | 0.037 | 0.037 | 0.041 | 0.027 | 1.0 | 0.023 | 0.02 | 0.025 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 512.0000 | 10.00 | 9.75 | CW | E | 1.06 | BS3 | 0.01 | 0.01 | 0.011 | 0.015 | 0.023 | 0.028 | 0.031 | 0.031 | 0.035 | 0.034 | 1.0 | 0.023 | 0.02 | 0.025 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 470.0000 | 10.00 | 10.00 | CW | E | 1.04 | BS4 | 0.011 | 0.013 | 0.017 | 0.024 | 0.027 | 0.036 | 0.042 | 0.056 | 0.054 | 0.049 | 1.0 | 0.033 | 0.03 | 0.034 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 484.0000 | 10.00 | 9.61 | CW | E | 1.05 | BS4 | 0.014 | 0.014 | 0.015 | 0.02 | 0.028 | 0.04 | 0.054 | 0.056 | 0.055 | 0.05 | 1.0 | 0.035 | 0.04 | 0.038 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 498.0000 | 10.00 | 9.83 | CW | E | 1.06 | BS4 | 0.015 | 0.013 | 0.017 | 0.019 | 0.024 | 0.033 | 0.051 | 0.061 | 0.054 | 0.043 | 1.0 | 0.033 | 0.03 | 0.036 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 512.0000 | 10.00 | 9.75 | CW | E | 1.06 | BS4 | 0.013 | 0.01 | 0.015 | 0.02 | 0.028 | 0.044 | 0.05 | 0.056 | 0.053 | 0.045 | 1.0 | 0.033 | 0.04 | 0.036 |

MPE calculations are defined in section 14.0.

Table I.1 (Continued)
DVR UHF - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm ²) | Calc. P.D. (mW/cm ²) | Max Calc. P.D. (mW/cm ²) |
|--------------|---------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|--------------------------------------|----------------------------------|--------------------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 470.0000 | 10.00 | 10.00 | CW | E | 1.04 | BS5 | 0.009 | 0.009 | 0.013 | 0.022 | 0.031 | 0.047 | 0.049 | 0.054 | 0.036 | 0.033 | 1.0 | 0.030 | 0.03 | 0.032 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 484.0000 | 10.00 | 9.61 | CW | E | 1.05 | BS5 | 0.011 | 0.01 | 0.017 | 0.025 | 0.03 | 0.04 | 0.053 | 0.046 | 0.059 | 0.04 | 1.0 | 0.033 | 0.03 | 0.036 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 498.0000 | 10.00 | 9.83 | CW | E | 1.06 | BS5 | 0.011 | 0.009 | 0.013 | 0.013 | 0.027 | 0.037 | 0.043 | 0.056 | 0.052 | 0.037 | 1.0 | 0.030 | 0.03 | 0.032 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 512.0000 | 10.00 | 9.75 | CW | E | 1.06 | BS5 | 0.009 | 0.009 | 0.012 | 0.016 | 0.025 | 0.028 | 0.04 | 0.049 | 0.045 | 0.039 | 1.0 | 0.027 | 0.03 | 0.030 |

MPE calculations are defined in section 14.0.

Table I.2
DVR UHF - MPE measurement data for Passenger

| D.U.T. Info. | | | | | | | Probe Info. | | | MPE Measurements | | | DUT Max. TX Factor | Avg. over Body (mW/cm ²) | Calc. P.D. (mW/cm ²) | Max Calc. P.D. (mW/cm ²) |
|--------------|---------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|-----------------------------------|-------------------|-------------------------|--------------------|--------------------------------------|----------------------------------|--------------------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions | | | | | | |
| | | | | | | | | | | Head/ Top 1/3 | Chest/ Middle 1/3 | Lower Trunk/ Bottom 1/3 | | | | |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 406.5000 | 10.00 | 9.68 | CW | E | 0.99 | PB | 0.059 | 0.154 | 0.092 | 1.0 | 0.102 | 0.10 | 0.104 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 417.5000 | 10.00 | 9.90 | CW | E | 0.99 | PB | 0.081 | 0.096 | 0.098 | 1.0 | 0.092 | 0.09 | 0.092 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 429.9875 | 10.00 | 9.60 | CW | E | 1.00 | PB | 0.081 | 0.036 | 0.069 | 1.0 | 0.062 | 0.06 | 0.065 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 406.5000 | 10.00 | 9.68 | CW | E | 0.99 | PF | 0.051 | 0.062 | 0.015 | 1.0 | 0.043 | 0.04 | 0.044 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 417.5000 | 10.00 | 9.90 | CW | E | 0.99 | PF | 0.031 | 0.047 | 0.007 | 1.0 | 0.028 | 0.03 | 0.028 |
| Trunk | HAE6012A, 1/4 Wave (380-433MHz) | 2.15 | 429.9875 | 10.00 | 9.60 | CW | E | 1.00 | PF | 0.033 | 0.045 | 0.023 | 1.0 | 0.034 | 0.03 | 0.035 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 450.0000 | 10.00 | 9.96 | CW | E | 1.02 | PB | 0.177 | 0.094 | 0.178 | 1.0 | 0.150 | 0.15 | 0.153 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 460.0000 | 10.00 | 9.90 | CW | E | 1.03 | PB | 0.187 | 0.138 | 0.144 | 1.0 | 0.156 | 0.161 | 0.163 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 470.0000 | 10.00 | 10.00 | CW | E | 1.04 | PB | 0.157 | 0.097 | 0.094 | 1.0 | 0.116 | 0.12 | 0.121 |

MPE calculations are defined in section 14.0.

Table I.2 (Continued)
DVR UHF - MPE measurement data for Passenger

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | DUT Max. TX Factor | Avg. over Body (mW/cm ²) | Calc. P.D. (mW/cm ²) | Max Calc. P.D. (mW/cm ²) |
|--------------|---------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|-----------------------------------|-------------------|-------------------------|--------------------|--------------------------------------|----------------------------------|--------------------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Passenger/Operator (MC) Positions | | | | | | |
| | | | | | | | | | | Head/ Top 1/3 | Chest/ Middle 1/3 | Lower Trunk/ Bottom 1/3 | | | | |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 450.0000 | 10.00 | 9.96 | CW | E | 1.02 | PF | 0.036 | 0.037 | 0.037 | 1.0 | 0.037 | 0.04 | 0.038 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 460.0000 | 10.00 | 9.90 | CW | E | 1.03 | PF | 0.042 | 0.043 | 0.039 | 1.0 | 0.041 | 0.04 | 0.043 |
| Trunk | HAE4003A, 1/4 Wave (450-470MHz) | 2.15 | 470.0000 | 10.00 | 10.00 | CW | E | 1.04 | PF | 0.03 | 0.046 | 0.037 | 1.0 | 0.038 | 0.04 | 0.039 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 470.0000 | 10.00 | 10.00 | CW | E | 1.04 | PB | 0.175 | 0.098 | 0.118 | 1.0 | 0.130 | 0.14 | 0.136 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 484.0000 | 10.00 | 9.61 | CW | E | 1.05 | PB | 0.219 | 0.075 | 0.14 | 1.0 | 0.145 | 0.15 | 0.158 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 498.0000 | 10.00 | 9.83 | CW | E | 1.06 | PB | 0.126 | 0.076 | 0.062 | 1.0 | 0.088 | 0.09 | 0.095 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 512.0000 | 10.00 | 9.75 | CW | E | 1.06 | PB | 0.127 | 0.16 | 0.11 | 1.0 | 0.132 | 0.14 | 0.144 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 470.0000 | 10.00 | 10.00 | CW | E | 1.04 | PF | 0.021 | 0.029 | 0.038 | 1.0 | 0.029 | 0.03 | 0.031 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 484.0000 | 10.00 | 9.61 | CW | E | 1.05 | PF | 0.023 | 0.034 | 0.020 | 1.0 | 0.026 | 0.03 | 0.028 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 498.0000 | 10.00 | 9.83 | CW | E | 1.06 | PF | 0.031 | 0.033 | 0.028 | 1.0 | 0.031 | 0.03 | 0.033 |
| Trunk | HAE4004A, 1/4 Wave (470-512MHz) | 2.15 | 512.0000 | 10.00 | 9.75 | CW | E | 1.06 | PF | 0.022 | 0.025 | 0.055 | 1.0 | 0.034 | 0.04 | 0.037 |

MPE calculations are defined in section 14.0.

Appendix J – MPE Measurement Results for LMR VHF

Table J.1

LMR VHF - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 150.8000 | 60.0 | 58.6 | CW | E | 1.02 | BS1 | 0.118 | 0.122 | 0.13 | 0.153 | 0.164 | 0.171 | 0.145 | 0.138 | 0.122 | 0.108 | 0.5 | 0.137 | 0.070 | 0.072 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 158.0125 | 60.0 | 58.6 | CW | E | 1.02 | BS1 | 0.102 | 0.115 | 0.119 | 0.122 | 0.128 | 0.13 | 0.101 | 0.098 | 0.085 | 0.062 | 0.5 | 0.106 | 0.054 | 0.055 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 165.0125 | 60.0 | 59.0 | CW | E | 1.01 | BS1 | 0.074 | 0.087 | 0.096 | 0.107 | 0.114 | 0.124 | 0.089 | 0.071 | 0.078 | 0.063 | 0.5 | 0.090 | 0.046 | 0.046 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 173.0125 | 60.0 | 59.3 | CW | E | 1.01 | BS1 | 0.059 | 0.064 | 0.066 | 0.07 | 0.083 | 0.089 | 0.079 | 0.077 | 0.073 | 0.071 | 0.5 | 0.073 | 0.037 | 0.037 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 150.8000 | 60.0 | 58.6 | CW | E | 1.02 | BS2 | 0.077 | 0.137 | 0.174 | 0.156 | 0.145 | 0.124 | 0.127 | 0.122 | 0.113 | 0.106 | 0.5 | 0.128 | 0.065 | 0.067 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 158.0125 | 60.0 | 58.6 | CW | E | 1.02 | BS2 | 0.079 | 0.126 | 0.155 | 0.149 | 0.14 | 0.11 | 0.1 | 0.105 | 0.099 | 0.085 | 0.5 | 0.115 | 0.059 | 0.060 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 165.0125 | 60.0 | 59.0 | CW | E | 1.01 | BS2 | 0.073 | 0.111 | 0.119 | 0.112 | 0.097 | 0.095 | 0.102 | 0.104 | 0.101 | 0.095 | 0.5 | 0.101 | 0.051 | 0.052 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 173.0125 | 60.0 | 59.3 | CW | E | 1.01 | BS2 | 0.053 | 0.071 | 0.075 | 0.064 | 0.064 | 0.073 | 0.081 | 0.079 | 0.076 | 0.067 | 0.5 | 0.070 | 0.036 | 0.036 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 150.8000 | 60.0 | 58.6 | CW | E | 1.02 | BS3 | 0.043 | 0.069 | 0.084 | 0.092 | 0.099 | 0.1 | 0.096 | 0.101 | 0.089 | 0.086 | 0.5 | 0.086 | 0.044 | 0.045 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 158.0125 | 60.0 | 58.6 | CW | E | 1.02 | BS3 | 0.057 | 0.083 | 0.096 | 0.093 | 0.098 | 0.106 | 0.118 | 0.113 | 0.106 | 0.102 | 0.5 | 0.097 | 0.050 | 0.051 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 165.0125 | 60.0 | 59.0 | CW | E | 1.01 | BS3 | 0.064 | 0.073 | 0.103 | 0.105 | 0.11 | 0.115 | 0.12 | 0.113 | 0.11 | 0.1 | 0.5 | 0.101 | 0.051 | 0.052 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 173.0125 | 60.0 | 59.3 | CW | E | 1.01 | BS3 | 0.049 | 0.07 | 0.084 | 0.102 | 0.108 | 0.109 | 0.11 | 0.106 | 0.096 | 0.088 | 0.5 | 0.092 | 0.047 | 0.047 |

MPE calculations are defined in section 14.0.

Table J.1 (Continued)
LMR VHF - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 150.8000 | 60.0 | 58.6 | CW | E | 1.02 | BS4 | 0.036 | 0.057 | 0.078 | 0.085 | 0.086 | 0.082 | 0.077 | 0.075 | 0.07 | 0.067 | 0.5 | 0.071 | 0.036 | 0.037 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 158.0125 | 60.0 | 58.6 | CW | E | 1.02 | BS4 | 0.039 | 0.072 | 0.093 | 0.114 | 0.111 | 0.11 | 0.109 | 0.106 | 0.098 | 0.094 | 0.5 | 0.095 | 0.048 | 0.049 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 165.0125 | 60.0 | 59.0 | CW | E | 1.01 | BS4 | 0.03 | 0.055 | 0.072 | 0.078 | 0.075 | 0.061 | 0.056 | 0.054 | 0.046 | 0.044 | 0.5 | 0.057 | 0.029 | 0.029 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 173.0125 | 60.0 | 59.3 | CW | E | 1.01 | BS4 | 0.044 | 0.078 | 0.104 | 0.107 | 0.098 | 0.083 | 0.069 | 0.068 | 0.061 | 0.057 | 0.5 | 0.077 | 0.039 | 0.039 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 150.8000 | 60.0 | 58.6 | CW | E | 1.02 | BS5 | 0.021 | 0.034 | 0.037 | 0.04 | 0.033 | 0.033 | 0.038 | 0.043 | 0.038 | 0.043 | 0.5 | 0.036 | 0.018 | 0.019 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 158.0125 | 60.0 | 58.6 | CW | E | 1.02 | BS5 | 0.04 | 0.054 | 0.064 | 0.07 | 0.065 | 0.068 | 0.07 | 0.072 | 0.073 | 0.068 | 0.5 | 0.064 | 0.033 | 0.034 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 165.0125 | 60.0 | 59.0 | CW | E | 1.01 | BS5 | 0.028 | 0.043 | 0.046 | 0.044 | 0.04 | 0.023 | 0.027 | 0.032 | 0.029 | 0.022 | 0.5 | 0.033 | 0.017 | 0.017 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 173.0125 | 60.0 | 59.3 | CW | E | 1.01 | BS5 | 0.029 | 0.039 | 0.04 | 0.041 | 0.034 | 0.035 | 0.041 | 0.047 | 0.033 | 0.031 | 0.5 | 0.037 | 0.019 | 0.019 |

MPE calculations are defined in section 14.0.

Table J.1 (Continued)
LMR VHF - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 150.8000 | 60.0 | 58.6 | CW | H | 0.87 | BS1 | 0.073 | 0.072 | 0.068 | 0.067 | 0.073 | 0.081 | 0.084 | 0.079 | 0.077 | 0.070 | 0.5 | 0.074 | 0.079 | 0.081 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 158.0125 | 60.0 | 58.6 | CW | H | 0.86 | BS1 | 0.074 | 0.063 | 0.061 | 0.063 | 0.068 | 0.072 | 0.071 | 0.067 | 0.062 | 0.062 | 0.5 | 0.066 | 0.061 | 0.063 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 165.0125 | 60.0 | 59.0 | CW | H | 0.85 | BS1 | 0.069 | 0.058 | 0.055 | 0.056 | 0.053 | 0.069 | 0.066 | 0.067 | 0.070 | 0.071 | 0.5 | 0.063 | 0.055 | 0.056 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 173.0125 | 60.0 | 59.3 | CW | H | 0.84 | BS1 | 0.056 | 0.044 | 0.045 | 0.053 | 0.057 | 0.060 | 0.061 | 0.062 | 0.070 | 0.072 | 0.5 | 0.058 | 0.045 | 0.045 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 150.8000 | 60.0 | 58.6 | CW | H | 0.87 | BS2 | 0.056 | 0.066 | 0.053 | 0.056 | 0.063 | 0.068 | 0.076 | 0.078 | 0.064 | 0.065 | 0.5 | 0.065 | 0.059 | 0.061 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 158.0125 | 60.0 | 58.6 | CW | H | 0.86 | BS2 | 0.057 | 0.068 | 0.065 | 0.065 | 0.073 | 0.079 | 0.084 | 0.079 | 0.080 | 0.073 | 0.5 | 0.072 | 0.073 | 0.075 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 165.0125 | 60.0 | 59.0 | CW | H | 0.85 | BS2 | 0.066 | 0.060 | 0.053 | 0.065 | 0.073 | 0.081 | 0.083 | 0.079 | 0.073 | 0.067 | 0.5 | 0.070 | 0.067 | 0.068 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 173.0125 | 60.0 | 59.3 | CW | H | 0.84 | BS2 | 0.067 | 0.066 | 0.058 | 0.070 | 0.077 | 0.083 | 0.084 | 0.078 | 0.071 | 0.068 | 0.5 | 0.072 | 0.069 | 0.070 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 150.8000 | 60.0 | 58.6 | CW | H | 0.87 | BS3 | 0.048 | 0.048 | 0.049 | 0.051 | 0.051 | 0.057 | 0.055 | 0.055 | 0.053 | 0.055 | 0.5 | 0.052 | 0.039 | 0.040 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 158.0125 | 60.0 | 58.6 | CW | H | 0.86 | BS3 | 0.046 | 0.054 | 0.051 | 0.042 | 0.047 | 0.054 | 0.065 | 0.061 | 0.058 | 0.060 | 0.5 | 0.054 | 0.040 | 0.041 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 165.0125 | 60.0 | 59.0 | CW | H | 0.85 | BS3 | 0.040 | 0.049 | 0.048 | 0.048 | 0.043 | 0.053 | 0.051 | 0.055 | 0.044 | 0.050 | 0.5 | 0.048 | 0.032 | 0.032 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 173.0125 | 60.0 | 59.3 | CW | H | 0.84 | BS3 | 0.040 | 0.045 | 0.046 | 0.050 | 0.042 | 0.054 | 0.048 | 0.051 | 0.052 | 0.052 | 0.5 | 0.048 | 0.031 | 0.031 |

MPE calculations are defined in section 14.0.

Table J.1 (Continued)
LMR VHF - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 150.8000 | 60.0 | 58.6 | CW | H | 0.87 | BS4 | 0.048 | 0.043 | 0.047 | 0.041 | 0.044 | 0.046 | 0.048 | 0.049 | 0.049 | 0.048 | 0.5 | 0.046 | 0.031 | 0.031 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 158.0125 | 60.0 | 58.6 | CW | H | 0.86 | BS4 | 0.038 | 0.034 | 0.040 | 0.035 | 0.036 | 0.038 | 0.042 | 0.043 | 0.047 | 0.049 | 0.5 | 0.040 | 0.023 | 0.023 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 165.0125 | 60.0 | 59.0 | CW | H | 0.85 | BS4 | 0.043 | 0.041 | 0.043 | 0.036 | 0.037 | 0.038 | 0.039 | 0.041 | 0.043 | 0.042 | 0.5 | 0.040 | 0.022 | 0.022 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 173.0125 | 60.0 | 59.3 | CW | H | 0.84 | BS4 | 0.044 | 0.047 | 0.048 | 0.048 | 0.044 | 0.038 | 0.039 | 0.041 | 0.046 | 0.048 | 0.5 | 0.044 | 0.026 | 0.026 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 150.8000 | 60.0 | 58.6 | CW | H | 0.87 | BS5 | 0.030 | 0.024 | 0.028 | 0.027 | 0.032 | 0.037 | 0.039 | 0.044 | 0.041 | 0.040 | 0.5 | 0.034 | 0.017 | 0.017 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 158.0125 | 60.0 | 58.6 | CW | H | 0.86 | BS5 | 0.027 | 0.026 | 0.028 | 0.026 | 0.029 | 0.030 | 0.036 | 0.038 | 0.041 | 0.045 | 0.5 | 0.033 | 0.015 | 0.015 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 165.0125 | 60.0 | 59.0 | CW | H | 0.85 | BS5 | 0.039 | 0.031 | 0.032 | 0.037 | 0.042 | 0.046 | 0.047 | 0.044 | 0.041 | 0.037 | 0.5 | 0.040 | 0.021 | 0.022 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 173.0125 | 60.0 | 59.3 | CW | H | 0.84 | BS5 | 0.030 | 0.028 | 0.027 | 0.030 | 0.033 | 0.037 | 0.039 | 0.038 | 0.037 | 0.036 | 0.5 | 0.034 | 0.015 | 0.015 |

MPE calculations are defined in section 14.0.

Table J.2

LMR VHF - MPE measurement data for Passenger

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | DUT Max. TX Factor | Avg. over Body (mW/cm ²) | Calc. P.D. (mW/cm ²) | Max Calc. P.D. (mW/cm ²) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|-----------------------------------|-------------------|-------------------------|--------------------|--------------------------------------|----------------------------------|--------------------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Passenger/Operator (MC) Positions | | | | | | |
| | | | | | | | | | | Head/ Top 1/3 | Chest/ Middle 1/3 | Lower Trunk/ Bottom 1/3 | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 150.8000 | 60.0 | 58.6 | CW | E | 1.02 | PB | 0.266 | 0.183 | 0.172 | 0.5 | 0.207 | 0.106 | 0.108 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 158.0125 | 60.0 | 58.6 | CW | E | 1.02 | PB | 0.19 | 0.28 | 0.26 | 0.5 | 0.243 | 0.124 | 0.127 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 165.0125 | 60.0 | 59.0 | CW | E | 1.01 | PB | 0.127 | 0.142 | 0.158 | 0.5 | 0.142 | 0.072 | 0.073 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 173.0125 | 60.0 | 59.3 | CW | E | 1.01 | PB | 0.137 | 0.045 | 0.092 | 0.5 | 0.091 | 0.046 | 0.047 |
| | | | | | | | | | | | | | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 150.8000 | 60.0 | 58.6 | CW | E | 1.02 | PF | 0.046 | 0.077 | 0.069 | 0.5 | 0.064 | 0.033 | 0.033 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 158.0125 | 60.0 | 58.6 | CW | E | 1.02 | PF | 0.059 | 0.074 | 0.129 | 0.5 | 0.087 | 0.045 | 0.046 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 165.0125 | 60.0 | 59.0 | CW | E | 1.01 | PF | 0.093 | 0.114 | 0.088 | 0.5 | 0.098 | 0.050 | 0.051 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 173.0125 | 60.0 | 59.3 | CW | E | 1.01 | PF | 0.043 | 0.068 | 0.056 | 0.5 | 0.056 | 0.028 | 0.028 |

MPE calculations are defined in section 14.0.

Table J.2 (Continued)

LMR VHF - MPE measurement data for Passenger

| D.U.T. Info. | | | | | | | Probe Info. | | | MPE Measurements | | | DUT Max. TX Factor | Avg. over Body (mW/cm ²) | Calc. P.D. (mW/cm ²) | Max Calc. P.D. (mW/cm ²) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|-----------------------------------|-------------------|-------------------------|--------------------|--------------------------------------|----------------------------------|--------------------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Passenger/Operator (MC) Positions | | | | | | |
| | | | | | | | | | | Head/ Top 1/3 | Chest/ Middle 1/3 | Lower Trunk/ Bottom 1/3 | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 150.8000 | 60.0 | 58.6 | CW | H | 0.87 | PB | 0.105 | 0.085 | 0.077 | 0.5 | 0.089 | 0.113 | 0.116 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 158.0125 | 60.0 | 58.6 | CW | H | 0.86 | PB | 0.084 | 0.101 | 0.094 | 0.5 | 0.093 | 0.121 | 0.123 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 165.0125 | 60.0 | 59.0 | CW | H | 0.85 | PB | 0.051 | 0.063 | 0.079 | 0.5 | 0.064 | 0.056 | 0.057 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 173.0125 | 60.0 | 59.3 | CW | H | 0.84 | PB | 0.062 | 0.032 | 0.024 | 0.5 | 0.039 | 0.021 | 0.021 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 150.8000 | 60.0 | 58.6 | CW | H | 0.87 | PF | 0.066 | 0.052 | 0.045 | 0.5 | 0.054 | 0.042 | 0.043 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 158.0125 | 60.0 | 58.6 | CW | H | 0.86 | PF | 0.069 | 0.068 | 0.059 | 0.5 | 0.065 | 0.060 | 0.061 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 165.0125 | 60.0 | 59.0 | CW | H | 0.85 | PF | 0.071 | 0.07 | 0.061 | 0.5 | 0.067 | 0.062 | 0.063 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 173.0125 | 60.0 | 59.3 | CW | H | 0.84 | PF | 0.052 | 0.049 | 0.036 | 0.5 | 0.046 | 0.028 | 0.028 |

MPE calculations are defined in section 14.0.

Appendix K – MPE Measurement Results for LMR UHF R1

Table K.1

LMR UHF R1 - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm ²) | Calc. P.D. (mW/cm ²) | Max Calc. P.D. (mW/cm ²) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|--------------------------------------|----------------------------------|--------------------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 406.5000 | 54.0 | 53.4 | CW | E | 0.99 | BS1 | 0.016 | 0.013 | 0.017 | 0.026 | 0.04 | 0.056 | 0.055 | 0.049 | 0.048 | 0.053 | 0.5 | 0.037 | 0.02 | 0.019 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 422.0125 | 54.0 | 53.5 | CW | E | 1.00 | BS1 | 0.017 | 0.024 | 0.048 | 0.056 | 0.071 | 0.079 | 0.079 | 0.072 | 0.059 | 0.074 | 0.5 | 0.058 | 0.03 | 0.029 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 438.0125 | 54.0 | 53.0 | CW | E | 1.01 | BS1 | 0.049 | 0.055 | 0.076 | 0.082 | 0.096 | 0.087 | 0.073 | 0.067 | 0.095 | 0.128 | 0.5 | 0.081 | 0.04 | 0.042 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 450.0125 | 54.0 | 53.2 | CW | E | 1.02 | BS1 | 0.031 | 0.033 | 0.051 | 0.056 | 0.064 | 0.065 | 0.065 | 0.054 | 0.046 | 0.07 | 0.5 | 0.054 | 0.03 | 0.028 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 469.9875 | 54 | 53.3 | CW | E | 1.04 | BS1 | 0.032 | 0.041 | 0.058 | 0.068 | 0.075 | 0.067 | 0.064 | 0.047 | 0.043 | 0.083 | 0.5 | 0.058 | 0.03 | 0.030 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 406.5000 | 54.0 | 53.4 | CW | E | 0.99 | BS2 | 0.02 | 0.021 | 0.023 | 0.026 | 0.029 | 0.037 | 0.038 | 0.036 | 0.031 | 0.042 | 0.5 | 0.030 | 0.01 | 0.015 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 422.0125 | 54.0 | 53.5 | CW | E | 1 | BS2 | 0.03 | 0.028 | 0.029 | 0.031 | 0.032 | 0.033 | 0.035 | 0.032 | 0.031 | 0.038 | 0.5 | 0.032 | 0.02 | 0.016 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 438.0125 | 54.0 | 53.0 | CW | E | 1.01 | BS2 | 0.029 | 0.028 | 0.031 | 0.033 | 0.041 | 0.056 | 0.058 | 0.052 | 0.054 | 0.074 | 0.5 | 0.046 | 0.02 | 0.023 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 450.0125 | 54.0 | 53.2 | CW | E | 1.02 | BS2 | 0.014 | 0.016 | 0.019 | 0.02 | 0.028 | 0.039 | 0.042 | 0.04 | 0.047 | 0.075 | 0.5 | 0.034 | 0.02 | 0.018 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 469.9875 | 54.0 | 53.3 | CW | E | 1.04 | BS2 | 0.025 | 0.027 | 0.028 | 0.03 | 0.046 | 0.052 | 0.054 | 0.038 | 0.045 | 0.052 | 0.5 | 0.040 | 0.02 | 0.021 |

MPE calculations are defined in section 14.0.

Table K.1 (Continued)

LMR UHF R1 - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 406.5000 | 54 | 53.4 | CW | E | 0.99 | BS3 | 0.024 | 0.025 | 0.027 | 0.035 | 0.024 | 0.015 | 0.021 | 0.033 | 0.035 | 0.031 | 0.5 | 0.027 | 0.01 | 0.014 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 422.0125 | 54.0 | 53.5 | CW | E | 1.00 | BS3 | 0.019 | 0.02 | 0.034 | 0.038 | 0.029 | 0.021 | 0.023 | 0.024 | 0.032 | 0.049 | 0.5 | 0.029 | 0.01 | 0.015 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 438.0125 | 54.0 | 53.0 | CW | E | 1.01 | BS3 | 0.02 | 0.022 | 0.029 | 0.037 | 0.029 | 0.033 | 0.037 | 0.045 | 0.052 | 0.058 | 0.5 | 0.036 | 0.02 | 0.019 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 450.0125 | 54.0 | 53.2 | CW | E | 1.02 | BS3 | 0.017 | 0.018 | 0.025 | 0.029 | 0.03 | 0.029 | 0.037 | 0.036 | 0.033 | 0.043 | 0.5 | 0.030 | 0.02 | 0.015 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 469.9875 | 54.0 | 53.3 | CW | E | 1.04 | BS3 | 0.026 | 0.033 | 0.034 | 0.035 | 0.027 | 0.026 | 0.025 | 0.031 | 0.045 | 0.067 | 0.5 | 0.035 | 0.02 | 0.018 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 406.5000 | 54.0 | 53.4 | CW | E | 0.99 | BS4 | 0.014 | 0.017 | 0.013 | 0.016 | 0.016 | 0.015 | 0.013 | 0.012 | 0.012 | 0.016 | 0.5 | 0.014 | 0.01 | 0.007 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 422.0125 | 54.0 | 53.5 | CW | E | 1.00 | BS4 | 0.011 | 0.012 | 0.012 | 0.016 | 0.017 | 0.02 | 0.015 | 0.009 | 0.011 | 0.018 | 0.5 | 0.014 | 0.01 | 0.007 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 438.0125 | 54.0 | 53.0 | CW | E | 1.01 | BS4 | 0.007 | 0.008 | 0.008 | 0.018 | 0.025 | 0.019 | 0.02 | 0.013 | 0.012 | 0.02 | 0.5 | 0.015 | 0.01 | 0.008 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 450.0125 | 54.0 | 53.2 | CW | E | 1.02 | BS4 | 0.011 | 0.011 | 0.005 | 0.009 | 0.009 | 0.014 | 0.017 | 0.016 | 0.014 | 0.013 | 0.5 | 0.012 | 0.01 | 0.006 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 469.9875 | 54 | 53.3 | CW | E | 1.04 | BS4 | 0.013 | 0.009 | 0.009 | 0.017 | 0.021 | 0.021 | 0.013 | 0.009 | 0.006 | 0.012 | 0.5 | 0.013 | 0.01 | 0.007 |

MPE calculations are defined in section 14.0.

Table K.1 (Continued)
LMR UHF R1 - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm ²) | Calc. P.D. (mW/cm ²) | Max Calc. P.D. (mW/cm ²) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|--------------------------------------|----------------------------------|--------------------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 406.5000 | 54.0 | 53.4 | CW | E | 0.99 | BS5 | 0.001 | 0.001 | 0.003 | 0.003 | 0.005 | 0.007 | 0.011 | 0.012 | 0.01 | 0.007 | 0.5 | 0.006 | 0.00 | 0.003 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 422.0125 | 54.0 | 53.5 | CW | E | 1 | BS5 | 0.001 | 0.003 | 0.007 | 0.006 | 0.011 | 0.012 | 0.008 | 0.006 | 0.003 | 0.004 | 0.5 | 0.006 | 0.00 | 0.003 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 438.0125 | 54.0 | 53.0 | CW | E | 1.01 | BS5 | 0.001 | 0.002 | 0.003 | 0.005 | 0.007 | 0.018 | 0.019 | 0.016 | 0.016 | 0.012 | 0.5 | 0.010 | 0.00 | 0.005 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 450.0125 | 54.0 | 53.2 | CW | E | 1.02 | BS5 | 0.002 | 0.003 | 0.003 | 0.003 | 0.005 | 0.009 | 0.013 | 0.012 | 0.005 | 0.006 | 0.5 | 0.006 | 0.00 | 0.003 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 469.9875 | 54.0 | 53.3 | CW | E | 1.04 | BS5 | 0.001 | 0.002 | 0.002 | 0.005 | 0.01 | 0.014 | 0.015 | 0.007 | 0.005 | 0.007 | 0.5 | 0.007 | 0.00 | 0.004 |

MPE calculations are defined in section 14.0.

Table K.2
LMR UHF R1 - MPE measurement data for Passenger

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | DUT Max. TX Factor | Avg. over Body (mW/cm ²) | Calc. P.D. (mW/cm ²) | Max Calc. P.D. (mW/cm ²) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|-----------------------------------|-------------------|-------------------------|--------------------|--------------------------------------|----------------------------------|--------------------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Passenger/Operator (MC) Positions | | | | | | |
| | | | | | | | | | | Head/ Top 1/3 | Chest/ Middle 1/3 | Lower Trunk/ Bottom 1/3 | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 406.5000 | 54.0 | 53.4 | CW | E | 0.99 | PB | 0.114 | 0.067 | 0.083 | 0.5 | 0.088 | 0.04 | 0.044 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 422.0125 | 54 | 53.5 | CW | E | 1 | PB | 0.06 | 0.045 | 0.053 | 0.5 | 0.053 | 0.03 | 0.027 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 438.0125 | 54.0 | 53.0 | CW | E | 1.01 | PB | 0.139 | 0.097 | 0.09 | 0.5 | 0.109 | 0.05 | 0.056 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 450.0125 | 54 | 53.2 | CW | E | 1.02 | PB | 0.06 | 0.06 | 0.094 | 0.5 | 0.071 | 0.04 | 0.037 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 469.9875 | 54 | 53.3 | CW | E | 1.04 | PB | 0.073 | 0.056 | 0.051 | 0.5 | 0.060 | 0.03 | 0.032 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 406.5000 | 54.0 | 53.4 | CW | E | 0.99 | PF | 0.003 | 0.007 | 0.003 | 0.5 | 0.004 | 0.00 | 0.002 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 422.0125 | 54 | 53.5 | CW | E | 1 | PF | 0.004 | 0.014 | 0.013 | 0.5 | 0.010 | 0.01 | 0.005 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 438.0125 | 54 | 53.0 | CW | E | 1.01 | PF | 0.004 | 0.005 | 0.017 | 0.5 | 0.009 | 0.00 | 0.004 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 450.0125 | 54.0 | 53.2 | CW | E | 1.02 | PF | 0.004 | 0.015 | 0.025 | 0.5 | 0.015 | 0.01 | 0.008 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 469.9875 | 54 | 53.3 | CW | E | 1.04 | PF | 0.005 | 0.008 | 0.015 | 0.5 | 0.009 | 0.00 | 0.005 |

MPE calculations are defined in section 14.0.

Appendix L – MPE Measurement Results for LMR UHF R2

Table L.1

LMR UHF R2 - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm ²) | Calc. P.D. (mW/cm ²) | Max Calc. P.D. (mW/cm ²) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|--------------------------------------|----------------------------------|--------------------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 450.0125 | 54.0 | 53.2 | CW | E | 1.02 | BS1 | 0.031 | 0.033 | 0.051 | 0.056 | 0.064 | 0.065 | 0.065 | 0.054 | 0.046 | 0.07 | 0.5 | 0.054 | 0.03 | 0.028 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 469.9875 | 54.0 | 53.3 | CW | E | 1.04 | BS1 | 0.032 | 0.041 | 0.058 | 0.068 | 0.075 | 0.067 | 0.064 | 0.047 | 0.043 | 0.083 | 0.5 | 0.058 | 0.03 | 0.030 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 482.5000 | 54.0 | 53.5 | CW | E | 1.05 | BS1 | 0.036 | 0.038 | 0.05 | 0.055 | 0.063 | 0.062 | 0.068 | 0.059 | 0.063 | 0.106 | 0.5 | 0.060 | 0.03 | 0.032 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 496.5000 | 48.0 | 46.7 | CW | E | 1.06 | BS1 | 0.027 | 0.03 | 0.049 | 0.051 | 0.059 | 0.054 | 0.058 | 0.046 | 0.046 | 0.066 | 0.5 | 0.049 | 0.03 | 0.026 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 511.9875 | 48.0 | 47.5 | CW | E | 1.06 | BS1 | 0.043 | 0.056 | 0.075 | 0.075 | 0.083 | 0.07 | 0.071 | 0.071 | 0.08 | 0.085 | 0.5 | 0.071 | 0.04 | 0.038 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 450.0125 | 54.0 | 53.2 | CW | E | 1.02 | BS2 | 0.014 | 0.016 | 0.019 | 0.02 | 0.028 | 0.039 | 0.042 | 0.04 | 0.047 | 0.075 | 0.5 | 0.034 | 0.02 | 0.018 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 469.9875 | 54.0 | 53.3 | CW | E | 1.04 | BS2 | 0.025 | 0.027 | 0.028 | 0.03 | 0.046 | 0.052 | 0.054 | 0.038 | 0.045 | 0.052 | 0.5 | 0.040 | 0.02 | 0.021 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 482.5000 | 54.0 | 53.5 | CW | E | 1.05 | BS2 | 0.02 | 0.021 | 0.023 | 0.034 | 0.055 | 0.057 | 0.06 | 0.043 | 0.051 | 0.077 | 0.5 | 0.044 | 0.02 | 0.023 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 496.5000 | 48.0 | 46.7 | CW | E | 1.06 | BS2 | 0.013 | 0.016 | 0.024 | 0.027 | 0.038 | 0.055 | 0.062 | 0.051 | 0.05 | 0.071 | 0.5 | 0.041 | 0.02 | 0.022 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 511.9875 | 48 | 47.5 | CW | E | 1.06 | BS2 | 0.016 | 0.017 | 0.031 | 0.031 | 0.054 | 0.081 | 0.094 | 0.077 | 0.076 | 0.099 | 0.5 | 0.058 | 0.03 | 0.031 |

MPE calculations are defined in section 14.0.

Table L.1 (Continued)
LMR UHF R2 - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm ²) | Calc. P.D. (mW/cm ²) | Max Calc. P.D. (mW/cm ²) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|--------------------------------------|----------------------------------|--------------------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 450.0125 | 54.0 | 53.2 | CW | E | 1.02 | BS3 | 0.017 | 0.018 | 0.025 | 0.029 | 0.03 | 0.029 | 0.037 | 0.036 | 0.033 | 0.043 | 0.5 | 0.030 | 0.02 | 0.015 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 469.9875 | 54.0 | 53.3 | CW | E | 1.04 | BS3 | 0.026 | 0.033 | 0.034 | 0.035 | 0.027 | 0.026 | 0.025 | 0.031 | 0.045 | 0.067 | 0.5 | 0.035 | 0.02 | 0.018 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 482.5000 | 54.0 | 53.5 | CW | E | 1.05 | BS3 | 0.038 | 0.039 | 0.04 | 0.038 | 0.034 | 0.033 | 0.033 | 0.048 | 0.046 | 0.054 | 0.5 | 0.040 | 0.02 | 0.021 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 496.5000 | 48.0 | 46.7 | CW | E | 1.06 | BS3 | 0.022 | 0.027 | 0.03 | 0.032 | 0.033 | 0.034 | 0.037 | 0.034 | 0.033 | 0.038 | 0.5 | 0.032 | 0.02 | 0.017 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 511.9875 | 48.0 | 47.5 | CW | E | 1.06 | BS3 | 0.027 | 0.032 | 0.044 | 0.046 | 0.049 | 0.039 | 0.037 | 0.036 | 0.033 | 0.043 | 0.5 | 0.039 | 0.02 | 0.021 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 450.0125 | 54.0 | 53.2 | CW | E | 1.02 | BS4 | 0.011 | 0.011 | 0.005 | 0.009 | 0.009 | 0.014 | 0.017 | 0.016 | 0.014 | 0.013 | 0.5 | 0.012 | 0.01 | 0.006 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 469.9875 | 54.0 | 53.3 | CW | E | 1.04 | BS4 | 0.013 | 0.009 | 0.009 | 0.017 | 0.021 | 0.021 | 0.013 | 0.009 | 0.006 | 0.012 | 0.5 | 0.013 | 0.01 | 0.007 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 482.5000 | 54.0 | 53.5 | CW | E | 1.05 | BS4 | 0.015 | 0.01 | 0.012 | 0.019 | 0.021 | 0.023 | 0.017 | 0.009 | 0.007 | 0.006 | 0.5 | 0.014 | 0.01 | 0.007 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 496.5000 | 48.0 | 46.7 | CW | E | 1.06 | BS4 | 0.014 | 0.009 | 0.013 | 0.02 | 0.018 | 0.017 | 0.012 | 0.011 | 0.01 | 0.017 | 0.5 | 0.014 | 0.01 | 0.008 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 511.9875 | 48.0 | 47.5 | CW | E | 1.06 | BS4 | 0.018 | 0.016 | 0.022 | 0.03 | 0.031 | 0.023 | 0.016 | 0.011 | 0.016 | 0.018 | 0.5 | 0.020 | 0.01 | 0.011 |

MPE calculations are defined in section 14.0.

Table L.1 (Continued)

LMR UHF R2 - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm ²) | Calc. P.D. (mW/cm ²) | Max Calc. P.D. (mW/cm ²) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|--------------------------------------|----------------------------------|--------------------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 450.0125 | 54.0 | 53.2 | CW | E | 1.02 | BS5 | 0.002 | 0.003 | 0.003 | 0.003 | 0.005 | 0.009 | 0.013 | 0.012 | 0.005 | 0.006 | 0.5 | 0.006 | 0.00 | 0.003 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 469.9875 | 54.0 | 53.3 | CW | E | 1.04 | BS5 | 0.001 | 0.002 | 0.002 | 0.005 | 0.01 | 0.014 | 0.015 | 0.007 | 0.005 | 0.007 | 0.5 | 0.007 | 0.00 | 0.004 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 482.5000 | 54.0 | 53.5 | CW | E | 1.05 | BS5 | 0.003 | 0.004 | 0.005 | 0.007 | 0.013 | 0.02 | 0.021 | 0.011 | 0.007 | 0.011 | 0.5 | 0.010 | 0.01 | 0.005 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 496.5000 | 48.0 | 46.7 | CW | E | 1.06 | BS5 | 0.001 | 0.004 | 0.004 | 0.007 | 0.006 | 0.012 | 0.009 | 0.014 | 0.013 | 0.017 | 0.5 | 0.009 | 0.00 | 0.005 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 511.9875 | 48 | 47.5 | CW | E | 1.06 | BS5 | 0.004 | 0.006 | 0.008 | 0.011 | 0.019 | 0.018 | 0.017 | 0.016 | 0.016 | 0.019 | 0.5 | 0.013 | 0.01 | 0.007 |

MPE calculations are defined in section 14.0.

Table L.2
LMR UHF R2 - MPE measurement data for Passenger

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|-----------------------------------|-------------------|-------------------------|--------------------|-------------------------|---------------------|-------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Passenger/Operator (MC) Positions | | | | | | |
| | | | | | | | | | | Head/ Top 1/3 | Chest/ Middle 1/3 | Lower Trunk/ Bottom 1/3 | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 450.0125 | 54 | 53.2 | CW | E | 1.02 | PB | 0.06 | 0.06 | 0.094 | 0.5 | 0.071 | 0.04 | 0.037 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 469.9875 | 54.0 | 53.3 | CW | E | 1.04 | PB | 0.073 | 0.056 | 0.051 | 0.5 | 0.060 | 0.03 | 0.032 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 482.5000 | 54 | 53.5 | CW | E | 1.05 | PB | 0.058 | 0.034 | 0.053 | 0.5 | 0.048 | 0.03 | 0.026 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 496.5000 | 48.0 | 46.7 | CW | E | 1.06 | PB | 0.047 | 0.034 | 0.038 | 0.5 | 0.040 | 0.02 | 0.022 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 511.9875 | 48 | 47.5 | CW | E | 1.06 | PB | 0.019 | 0.037 | 0.07 | 0.5 | 0.042 | 0.02 | 0.022 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 450.0125 | 54.0 | 53.2 | CW | E | 1.02 | PF | 0.004 | 0.015 | 0.025 | 0.5 | 0.015 | 0.01 | 0.008 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 469.9875 | 54 | 53.3 | CW | E | 1.04 | PF | 0.005 | 0.008 | 0.015 | 0.5 | 0.009 | 0.00 | 0.005 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 482.5000 | 54 | 53.5 | CW | E | 1.05 | PF | 0.013 | 0.025 | 0.076 | 0.5 | 0.038 | 0.02 | 0.020 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 496.5000 | 48.0 | 46.7 | CW | E | 1.06 | PF | 0.056 | 0.075 | 0.116 | 0.5 | 0.082 | 0.04 | 0.045 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 511.9875 | 48 | 47.5 | CW | E | 1.06 | PF | 0.051 | 0.048 | 0.091 | 0.5 | 0.063 | 0.03 | 0.034 |

MPE calculations are defined in section 14.0.

Appendix M – MPE Measurement Results for LMR 7/800

Table M.1

LMR 7/800 - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 770.0125 | 36.0 | 36.0 | CW | E | 1.16 | BS1 | 0.011 | 0.011 | 0.011 | 0.019 | 0.025 | 0.042 | 0.061 | 0.104 | 0.140 | 0.140 | 0.5 | 0.056 | 0.033 | 0.033 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 775.9125 | 36.0 | 36.0 | CW | E | 1.16 | BS1 | 0.007 | 0.017 | 0.020 | 0.020 | 0.022 | 0.022 | 0.055 | 0.077 | 0.106 | 0.106 | 0.5 | 0.045 | 0.026 | 0.026 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 806.0125 | 42.0 | 41.6 | CW | E | 1.15992 | BS1 | 0.006 | 0.006 | 0.010 | 0.010 | 0.010 | 0.013 | 0.027 | 0.041 | 0.055 | 0.055 | 0.5 | 0.023 | 0.014 | 0.014 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 823.9875 | 42.0 | 41.0 | CW | E | 1.14064 | BS1 | 0.006 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.012 | 0.031 | 0.047 | 0.047 | 0.5 | 0.018 | 0.010 | 0.011 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 851.0125 | 42.0 | 40.3 | CW | E | 1.11196 | BS1 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.013 | 0.025 | 0.028 | 0.5 | 0.009 | 0.005 | 0.005 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 862.0125 | 42.0 | 40.0 | CW | E | 1.10039 | BS1 | 0.002 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.015 | 0.033 | 0.033 | 0.5 | 0.012 | 0.006 | 0.007 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 868.8875 | 42.0 | 40.1 | CW | E | 1.09319 | BS1 | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.007 | 0.015 | 0.015 | 0.5 | 0.006 | 0.003 | 0.003 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 770.0125 | 36.0 | 36.0 | CW | E | 1.16 | BS2 | 0.003 | 0.009 | 0.011 | 0.011 | 0.016 | 0.040 | 0.046 | 0.103 | 0.111 | 0.111 | 0.5 | 0.046 | 0.027 | 0.027 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 775.9125 | 36.0 | 36.0 | CW | E | 1.16 | BS2 | 0.003 | 0.009 | 0.009 | 0.009 | 0.015 | 0.026 | 0.057 | 0.118 | 0.160 | 0.160 | 0.5 | 0.057 | 0.033 | 0.033 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 806.0125 | 42.0 | 41.6 | CW | E | 1.15992 | BS2 | 0.002 | 0.004 | 0.003 | 0.002 | 0.006 | 0.005 | 0.028 | 0.034 | 0.044 | 0.052 | 0.5 | 0.018 | 0.010 | 0.011 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 823.9875 | 42.0 | 41.0 | CW | E | 1.14064 | BS2 | 0.005 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.011 | 0.032 | 0.042 | 0.049 | 0.5 | 0.018 | 0.010 | 0.010 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 851.0125 | 42.0 | 40.3 | CW | E | 1.11196 | BS2 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.005 | 0.013 | 0.025 | 0.025 | 0.5 | 0.009 | 0.005 | 0.005 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 862.0125 | 42.0 | 40.0 | CW | E | 1.10039 | BS2 | 0.002 | 0.003 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.010 | 0.018 | 0.018 | 0.5 | 0.007 | 0.004 | 0.004 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 868.8875 | 42.0 | 40.1 | CW | E | 1.09319 | BS2 | 0.001 | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 | 0.010 | 0.012 | 0.5 | 0.004 | 0.002 | 0.002 |

MPE calculations are defined in section 14.0.

Table M.1 (Continued)

LMR 7/800 - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 770.0125 | 36.0 | 36.0 | CW | E | 1.16 | BS3 | 0.008 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.018 | 0.035 | 0.056 | 0.056 | 0.5 | 0.026 | 0.015 | 0.015 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 775.9125 | 36.0 | 36.0 | CW | E | 1.16 | BS3 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.015 | 0.027 | 0.071 | 0.088 | 0.088 | 0.5 | 0.035 | 0.021 | 0.021 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 806.0125 | 42.0 | 41.6 | CW | E | 1.15992 | BS3 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.014 | 0.024 | 0.034 | 0.034 | 0.5 | 0.014 | 0.008 | 0.008 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 823.9875 | 42.0 | 41.0 | CW | E | 1.14064 | BS3 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.009 | 0.015 | 0.022 | 0.022 | 0.028 | 0.5 | 0.011 | 0.006 | 0.006 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 851.0125 | 42.0 | 40.3 | CW | E | 1.11196 | BS3 | 0.001 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | 0.006 | 0.014 | 0.015 | 0.5 | 0.005 | 0.003 | 0.003 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 862.0125 | 42.0 | 40.0 | CW | E | 1.10039 | BS3 | 0.001 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.004 | 0.007 | 0.011 | 0.011 | 0.5 | 0.004 | 0.002 | 0.003 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 868.8875 | 42.0 | 40.1 | CW | E | 1.09319 | BS3 | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.005 | 0.007 | 0.5 | 0.003 | 0.001 | 0.001 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 770.0125 | 36.0 | 36.0 | CW | E | 1.16 | BS4 | 0.003 | 0.003 | 0.003 | 0.005 | 0.005 | 0.005 | 0.006 | 0.018 | 0.031 | 0.034 | 0.5 | 0.011 | 0.007 | 0.007 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 775.9125 | 36.0 | 36.0 | CW | E | 1.16 | BS4 | 0.004 | 0.004 | 0.004 | 0.004 | 0.006 | 0.011 | 0.017 | 0.030 | 0.049 | 0.045 | 0.5 | 0.017 | 0.010 | 0.010 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 806.0125 | 42.0 | 41.6 | CW | E | 1.15992 | BS4 | 0.004 | 0.004 | 0.003 | 0.005 | 0.004 | 0.009 | 0.011 | 0.035 | 0.054 | 0.056 | 0.5 | 0.019 | 0.011 | 0.011 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 823.9875 | 42.0 | 41.0 | CW | E | 1.14064 | BS4 | 0.004 | 0.004 | 0.005 | 0.011 | 0.011 | 0.011 | 0.015 | 0.032 | 0.064 | 0.089 | 0.5 | 0.025 | 0.014 | 0.014 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 851.0125 | 42.0 | 40.3 | CW | E | 1.11196 | BS4 | 0.004 | 0.004 | 0.004 | 0.005 | 0.005 | 0.008 | 0.008 | 0.029 | 0.058 | 0.076 | 0.5 | 0.020 | 0.011 | 0.012 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 862.0125 | 42.0 | 40.0 | CW | E | 1.10039 | BS4 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.007 | 0.013 | 0.034 | 0.056 | 0.063 | 0.5 | 0.020 | 0.011 | 0.011 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 868.8875 | 42.0 | 40.1 | CW | E | 1.09319 | BS4 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.014 | 0.035 | 0.048 | 0.5 | 0.013 | 0.007 | 0.007 |

MPE calculations are defined in section 14.0.

Table M.1 (Continued)
LMR 7/800 - MPE measurement data for Bystander

| D.U.T. Info. | | | | | | | Probe Info. | | | MPE Measurements | | | | | | | | | | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------------------|-------------------------|---------------------|-------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | Test Pos. | Bystander (BS) Positions | | | | | | | | | | | | | |
| | | | | | | | | | | 20 cm | 40 cm | 60 cm | 80 cm | 100 cm | 120 cm | 140 cm | 160 cm | 180 cm | 200 cm | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 770.0125 | 36.0 | 36.0 | CW | E | 1.16 | BS5 | 0.001 | 0.001 | 0.001 | 0.001 | 0.007 | 0.009 | 0.011 | 0.014 | 0.034 | 0.050 | 0.5 | 0.013 | 0.007 | 0.007 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 775.9125 | 36.0 | 36.0 | CW | E | 1.16 | BS5 | 0.000 | 0.001 | 0.002 | 0.002 | 0.003 | 0.005 | 0.007 | 0.012 | 0.024 | 0.029 | 0.5 | 0.009 | 0.005 | 0.005 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 806.0125 | 42.0 | 41.6 | CW | E | 1.16 | BS5 | 0.001 | 0.001 | 0.004 | 0.006 | 0.009 | 0.009 | 0.011 | 0.013 | 0.023 | 0.039 | 0.5 | 0.012 | 0.007 | 0.007 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 823.9875 | 42.0 | 41.0 | CW | E | 1.14 | BS5 | 0.001 | 0.001 | 0.001 | 0.001 | 0.008 | 0.015 | 0.018 | 0.023 | 0.038 | 0.046 | 0.5 | 0.014 | 0.008 | 0.008 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 851.0125 | 42.0 | 40.3 | CW | E | 1.11 | BS5 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.003 | 0.003 | 0.012 | 0.018 | 0.029 | 0.5 | 0.007 | 0.004 | 0.004 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 862.0125 | 42.0 | 40.0 | CW | E | 1.10 | BS5 | 0.001 | 0.001 | 0.004 | 0.004 | 0.004 | 0.004 | 0.005 | 0.008 | 0.020 | 0.041 | 0.5 | 0.009 | 0.005 | 0.005 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 868.8875 | 42.0 | 40.1 | CW | E | 1.09 | BS5 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.004 | 0.006 | 0.012 | 0.021 | 0.5 | 0.005 | 0.003 | 0.003 |

MPE calculations are defined in section 14.0.

Table M.2
LMR 7/800 - MPE measurement data for Passenger

| D.U.T. Info. | | | | | | | Probe Info. | | Test Pos. | MPE Measurements | | | DUT Max. TX Factor | Avg. over Body (mW/cm2) | Calc. P.D. (mW/cm2) | Max Calc. P.D. (mW/cm2) |
|--------------|------------------------------------|-----------------|---------------|-------------|-----------------|-----------|-------------|-------------------|-----------|-----------------------------------|-------------------|-------------------------|--------------------|-------------------------|---------------------|-------------------------|
| Ant Loc. | Ant. Model/ Desc. | Ant. Gain (dBi) | Tx Freq (MHz) | Max Pwr (W) | Initial Pwr (W) | Test Mode | E/H Field | Probe Cal. Factor | | Passenger/Operator (MC) Positions | | | | | | |
| | | | | | | | | | | Head/ Top 1/3 | Chest/ Middle 1/3 | Lower Trunk/ Bottom 1/3 | | | | |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 770.0125 | 36.0 | 36.0 | CW | E | 1.16 | PB | 0.037 | 0.033 | 0.031 | 0.5 | 0.034 | 0.020 | 0.020 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 775.9125 | 36.0 | 36.0 | CW | E | 1.16 | PB | 0.046 | 0.015 | 0.016 | 0.5 | 0.026 | 0.015 | 0.015 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 806.0125 | 42.0 | 41.6 | CW | E | 1.16 | PB | 0.027 | 0.029 | 0.082 | 0.5 | 0.046 | 0.027 | 0.027 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 823.9875 | 42.0 | 41.0 | CW | E | 1.14 | PB | 0.028 | 0.036 | 0.051 | 0.5 | 0.038 | 0.022 | 0.022 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 851.0125 | 42.0 | 40.3 | CW | E | 1.11 | PB | 0.041 | 0.006 | 0.033 | 0.5 | 0.027 | 0.015 | 0.015 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 862.0125 | 42.0 | 40.0 | CW | E | 1.10 | PB | 0.015 | 0.015 | 0.022 | 0.5 | 0.017 | 0.010 | 0.010 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 868.8875 | 42.0 | 40.1 | CW | E | 1.09 | PB | 0.003 | 0.012 | 0.014 | 0.5 | 0.010 | 0.005 | 0.006 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 770.0125 | 36.0 | 36.0 | CW | E | 1.16 | PF | 0.003 | 0.002 | 0.003 | 0.5 | 0.003 | 0.002 | 0.002 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 775.9125 | 36.0 | 36.0 | CW | E | 1.16 | PF | 0.002 | 0.004 | 0.003 | 0.5 | 0.003 | 0.002 | 0.002 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 806.0125 | 42.0 | 41.6 | CW | E | 1.16 | PF | 0.005 | 0.007 | 0.013 | 0.5 | 0.008 | 0.005 | 0.005 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 823.9875 | 42.0 | 41.0 | CW | E | 1.14 | PF | 0.013 | 0.018 | 0.012 | 0.5 | 0.014 | 0.008 | 0.008 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 851.0125 | 42.0 | 40.3 | CW | E | 1.11 | PF | 0.018 | 0.007 | 0.005 | 0.5 | 0.010 | 0.006 | 0.006 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 862.0125 | 42.0 | 40.0 | CW | E | 1.10 | PF | 0.012 | 0.005 | 0.004 | 0.5 | 0.007 | 0.004 | 0.004 |
| Roof | AN000131A01, 1/4 wave (136-870MHz) | 2.15 | 868.8875 | 42.0 | 40.1 | CW | E | 1.09 | PF | 0.012 | 0.005 | 0.009 | 0.5 | 0.009 | 0.005 | 0.005 |

MPE calculations are defined in section 14.0.