

 MOTOROLA SOLUTIONS	 MS ISO/IEC 17025 TESTING SAMM No.0826	 CERTIFICATE 2518.05																												
DECLARATION OF COMPLIANCE: MPE ASSESSMENT																														
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<table border="0"> <tr> <td style="vertical-align: top;">Responsible Engineer:</td> <td>Saw Sun Hock (EME Engineer)</td> </tr> <tr> <td style="vertical-align: top;">Report author:</td> <td>Saw Sun Hock (EME Engineer)</td> </tr> <tr> <td style="vertical-align: top;">Assessment Date(s):</td> <td>5/29/2019</td> </tr> <tr> <td style="vertical-align: top;">Date submitted:</td> <td>5/07/2019</td> </tr> <tr> <td style="vertical-align: top;">Manufacturer:</td> <td>Motorola Solutions, Penang Malaysia</td> </tr> <tr> <td style="vertical-align: top;">DUT Description:</td> <td>806-870 MHz TETRA Mobile Radio</td> </tr> <tr> <td style="vertical-align: top;">TX mode(s):</td> <td>Time Division Multiple Access (TDMA)</td> </tr> <tr> <td style="vertical-align: top;">Max. Power output:</td> <td>SSPD 11.2W; MSPD 6.3W; TEDS 3.6W</td> </tr> <tr> <td style="vertical-align: top;">TX Frequency Bands:</td> <td>806-824 MHz, 851-869 MHz</td> </tr> <tr> <td style="vertical-align: top;">Signaling type:</td> <td>SSPD, MSPD, TEDS</td> </tr> <tr> <td style="vertical-align: top;">Model(s) Certified:</td> <td>Refer to Table 4</td> </tr> <tr> <td style="vertical-align: top;">Classification:</td> <td>Occupational/Controlled Environment</td> </tr> <tr> <td style="vertical-align: top;">FCC ID:</td> <td>AZ492FT5878 This report contains results that are immaterial for FCC equipment approval, which are clearly identified.</td> </tr> <tr> <td style="vertical-align: top;">IC:</td> <td>109U-92FT5878 This report contains results that are immaterial for ISED Canada equipment approval, which are clearly identified.</td> </tr> </table>			Responsible Engineer:	Saw Sun Hock (EME Engineer)	Report author:	Saw Sun Hock (EME Engineer)	Assessment Date(s):	5/29/2019	Date submitted:	5/07/2019	Manufacturer:	Motorola Solutions, Penang Malaysia	DUT Description:	806-870 MHz TETRA Mobile Radio	TX mode(s):	Time Division Multiple Access (TDMA)	Max. Power output:	SSPD 11.2W; MSPD 6.3W; TEDS 3.6W	TX Frequency Bands:	806-824 MHz, 851-869 MHz	Signaling type:	SSPD, MSPD, TEDS	Model(s) Certified:	Refer to Table 4	Classification:	Occupational/Controlled Environment	FCC ID:	AZ492FT5878 This report contains results that are immaterial for FCC equipment approval, which are clearly identified.	IC:	109U-92FT5878 This report contains results that are immaterial for ISED Canada equipment approval, which are clearly identified.
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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 4.0 of this report (no deviation from standard methods). 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.																														
 Tiong Nguk Ing Deputy Technical Manager (Approved Signatory) Approval Date: 8/8/2019																														

Document Revision History

Date	Revision	Comments
8/6/2019	A	Initial release

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1.0 Introduction

This report contains calculated Maximum Permissible Exposure (MPE) result.

2.0 FCC MPE Summary

Table 1

Equipment Class	Frequency band (MHz)	Operator		Bystander	
		Power Density (mW/cm ²)	Percentage of Limit (%)	Power Density (mW/cm ²)	Percentage of Limit (%)
TNB	809-824; 854-869	1.688	62.80	0.188	34.90

3.0 Abbreviations / Definitions

DMO: Direct Mode Operation
DUT: Device Under Test
EME: Electromagnetic Energy
MPE: Maximum Permissible Exposure
MSPD: Multi-Slot Packet Data
SSPD: Single-Slot Packet Data
TDMA: Time Division Multiple Access
TEDS: Tetra Enhanced Data Service
TETRA: Terrestrial Trunked Radio
TMO: Trunked Mode Operation

4.0 Referenced Standards and Guidelines

This product is designed to comply with the following applicable national and international standards and guidelines.

- United States Federal Communications Commission, Code of Federal Regulations; Rule Part 47CFR § 1.1310, § 2.1091 (d) and § 2.1093 for RF Exposure, where applicable.
- Federal Communications Commission, “Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields”, OET Bulletin 65 (Edition 97-01), FCC, Washington, D.C.: August 1997.
- American National Standards Institute (ANSI) / Institute of Electrical and Electronics Engineers (IEEE) C95. 1-1999
- American National Standards Institute (ANSI) / Institute of Electrical and Electronics Engineers (IEEE) C95. 1-1992. Specific to FCC rules and regulations.
- Institute of Electrical and Electronics Engineers (IEEE) C95.3-2002
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998
- Ministry of Health (Canada) Safety Code 6 (2015), Limits of Human Exposure to Radio frequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz
- RSS-102 (Issue 5) – Radio Frequency (RF) Exposure Compliance of Radio communication Apparatus (All Frequency Bands)
- FCC KDB – 447498 D01 General RF Exposure Guidance v06
- FCC KDB – 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB – 865664 D02 RF Exposure Reporting v01r02

5.0 Power Density Limits

Table 2 – Occupational / Controlled Exposure Limits

Frequency Range (MHz)	FCC OET Bulletin 65	ICNIRP	IEEE C95.1 1992/1999	IEEE C95.1 2005	RSS 102 Issue 5 – 2015
	mW/cm ²	W/m ²	mW/cm ²	W/m ²	W/m ²
10 - 20					10.0
20 – 48					$44.72 / f^{0.5}$
30 – 300	1.0				
48 – 100					6.455
10 – 400		10.0			
100 – 300			1.0	10.0	
100 – 6,000					$0.6455 f^{0.5}$
300 – 1,500	$f/300$				
300 - 3,000			$f/300$	$f/30$	
400 – 2,000		$f/40$			
1,500 – 15,000					
1,500 – 100,000	5.0				
2,000 – 300,000		50.0			
3,000 – 300,000			10.0	100.0	
6,000 – 15,000					50.0
15000 – 150,000					50.0
150000 – 300,000					$3.33 \times 10^{-4} f$

Table 3 – General Population / Uncontrolled Exposure Limits

Frequency Range (MHz)	FCC OET Bulletin 65	ICNIRP	IEEE C95.1 1992/1999	IEEE C95.1 2005	RSS 102 Issue 5 – 2015
	mW/cm ²	W/m ²	mW/cm ²	W/m ²	W/m ²
10 - 20					2.0
20 – 48					$8.944 / f^{0.5}$
30 – 300	0.2				
48 – 300					1.291
10 – 400		2.0			
100 – 300			0.2		
100 – 400				2.0	
300 – 1,500	$f/1,500$				
300 – 6000					$0.02619 f^{0.6834}$
400 – 2,000		$f/200$		$f/200$	
300 – 15,000			$f/1,500$		
1,500 – 15,000					
1,500 – 100,000	1.0				
2,000 – 100,000				10.0	
2,000 – 300,000		10.0			
6,000 – 15,000					10.0
15,000 – 150,000					10.0
150,000 - 300,000					$6.67 \times 10^{-5} f$

6.0 Product and System Description

These devices are TETRA professional mobile radios for vehicular and motorcycle installation. The devices can operate with SSPD, MSPD or TEDS mode. For conservative assessment, MSPD with maximum average output power was selected for the MPE assessment ($6.3\text{W} \times 95.8\% = 6.03\text{W}$). Simultaneous transmission is not capable on these devices.

SSPD

In PTT voice and dispatch services, the radio uses Pi/4DQPSK modulation and Time Division Multiple Access (TDMA) with four user channels on a single radio carrier (25% duty cycle). The mobile radio can communicate with other radios in direct-mode operation (DMO) or trunked-mode operation (TMO). The worst case duty cycle that will be evaluated for compliance at the 11.2W output power is 25% duty cycle for TMO, DMO and gateway/repeater communication.

MSPD

TETRA also supports a Multi-Slot Packet Data (MSPD) mode that combines four timeslots to make a single data channel for data transfer only. The worst case duty cycle for MSPD is 95.8% and will be evaluated for compliance at the 6.3W output power.

TEDS

The radio also supports Tetra Enhanced Data Service (TEDS) which uses 4, 16 or 64 QAM modulation and ranges of channel spacing to achieve wideband data rates. This mode is data only with no repeater or gateway functionality. The maximum duty cycle for TEDS is the same as MSPD, 95.8% with 3.6W maximum power.

Table below listed all the models with different configuration certified in this report.

Table 4

Model Number	Description
AZM83UFS6TZ2AN (ISED#FS6TZ2AN1662C)	MTM5400 806-870 MCYCLE MT753C
AZM83UFS6TZ6AN (ISED#FS6TZ6AN1662C)	MTM5400 806-870 REMOTE MT753C
AZM83UCA6TZ5AN (ISED#CA6TZ5AN1662C)	MTM5200 806-870 DATA MT753C
AZM83UFA6TZ5AN (ISED#FA6TZ5AN1662C)	MTM5400 806-870 DATA MT753C
AZM83UFS6TZ4AN (ISED#FS6TZ4AN1662C)	MTM5400 806-870 DESK MT753C
AZM83UFT6TZ6AN (ISED#FT6TZ6AN1662C)	MTM5500 806-870 REMOTE MT753C
AZM83UCS6TZ4AN (ISED#CS6TZ4AN1662C)	MTM5200 806-870 DESK MT753C

Table 4 Continued

Model Number	Description
AZM83UFS6TZ5AN (ISED#FS6TZ5AN1662C)	MTM5400 806-870 DASH MT753C
AZM83UCS6TZ2AN (ISED#CS6TZ2AN1662C)	MTM5200 806-870 MCYCLE MT753C
AZM83UCS6TZ5AN (ISED#CS6TZ5AN1662C)	MTM5200 806-870 DASH MT753C
AZM83UCS6TZ6AN (ISED#CS6TZ6AN1662C)	MTM5200 806-870 REMOTE MT753C

7.0 Antenna Summary

Table below summarizes the evaluated antennas and their descriptions. GMAG4253A and GMAG4254A are GPS antennas (for receive only) not included in the MPE assessment.

Table 5

Antenna Model Number	Frequency Range (MHz)	Type	Gain (dBi)	Remarks
Vehicular Installation				
GMAF4408A	806-870	Monopole	2	
GMAF4409A	806-870	Glass Mount	5	
GMAF4410A	806-870	Glass Mount	2	
GMAF4411A	806-870	Monopole	2	
GMAF4412A	806-870	Monopole	2	
GMAF4413A	806-870	Monopole	5	
GMAF4414A	806-870	Dipole	2	
GMAF4415A	806-870	Monopole	2	
GMAF4416A	806-870	Monopole	2	
PMAF4408A	806-870	Monopole	2	Similar to GMAF4408A, only antenna connector type different.

Table 5 Continued

Antenna Model Number	Frequency Range (MHz)	Type	Gain (dBi)	Remarks
Motorcycle Installation				
GMAF4408A	806-870	Monopole	2	
GMAF4409A	806-870	Glass Mount	5	
GMAF4410A	806-870	Glass Mount	2	
GMAF4411A	806-870	Monopole	2	
GMAF4412A	806-870	Monopole	2	
GMAF4413A	806-870	Monopole	5	
GMAF4414A	806-870	Dipole	2	
GMAF4415A	806-870	Monopole	2	
GMAF4416A	806-870	Monopole	2	
PMAF4408A	806-870	Monopole	2	Similar to GMAF4408A, only antenna connector type different.
GMAF4417A	806-870	Monopole	2	

8.0 Assessment Method

MPE calculations were used to determine the RF exposure for these devices. According to FCC's OET Bulletin 65 Edition 97-01 Section 2, calculations can be made to predict RF field strength and power density levels around typical RF sources.

$$S = \frac{P_t G}{4\pi d^2 L} F$$

Equation above include the maximum duty cycle of the signal, and the factor, F, to provide a worst-case prediction of power density per FCC OET Bulletin 65, Edition 97-01 1997.

Where:

- S = power density (mW/cm²)
- P_t = maximum output power scaled by the maximum duty cycle of the signal
- G = power gain of the antenna in the direction of interest relative to an isotropic radiator (dBi)
- d = distance from antenna (cm)
- L = cable loss (dB)
- F = Enhancement factor

9.0 MPE Assessment

Tables below summarized the MPE calculation for vehicle and Motorcycle installation. For bystander, MPE calculation evaluated with 90 cm separation distance from antenna. For motorcycle operator, 30 cm separation distance from antenna is used for the evaluation.

Table 6
MPE Calculation Results for bystander (Vehicle Installation)

Antenna #	Max Power (W)	Duty Cycle (%)	Tx Frequency (MHz)	Antenna Gain (dBi)	Cable Loss, L (dB)	Dist., d (cm)	Enhance Factor, F	Max Calc. MPE (mW/cm ²)	MPE Spec Limit (mW/cm ²)					
									FCC	% To FCC Spec Limit	ICNIRP	% To ICNIRP Spec Limit	ISED limit	% To ISED Spec Limit
GMAF4408A	6.300	95.8%	806.0	2.00	0.00	90	1.00	0.094	0.54	17.5	0.40	23.3	0.25	37.0
GMAF4408A	6.300	95.8%	809.0	2.00	0.00	90	1.00	0.094	0.54	17.4	0.40	23.2	0.25	36.9
GMAF4408A	6.300	95.8%	816.5	2.00	0.00	90	1.00	0.094	0.54	17.3	0.41	23.0	0.26	36.7
GMAF4408A	6.300	95.8%	824.0	2.00	0.00	90	1.00	0.094	0.55	17.1	0.41	22.8	0.26	36.5
GMAF4408A	6.300	95.8%	851.0	2.00	0.00	90	1.00	0.094	0.57	16.6	0.43	22.1	0.26	35.7
GMAF4408A	6.300	95.8%	854.0	2.00	0.00	90	1.00	0.094	0.57	16.5	0.43	22.0	0.26	35.6
GMAF4408A	6.300	95.8%	860.0	2.00	0.00	90	1.00	0.094	0.57	16.4	0.43	21.9	0.27	35.4
GMAF4408A	6.300	95.8%	869.0	2.00	0.00	90	1.00	0.094	0.58	16.2	0.43	21.6	0.27	35.2
GMAF4409A	6.300	95.8%	806.0	5.00	0.00	90	1.00	0.188	0.54	34.9	0.40	46.5	0.25	73.9
GMAF4409A	6.300	95.8%	809.0	5.00	0.00	90	1.00	0.188	0.54	34.8	0.40	46.4	0.25	73.7
GMAF4409A	6.300	95.8%	816.5	5.00	0.00	90	1.00	0.188	0.54	34.4	0.41	45.9	0.26	73.3
GMAF4409A	6.300	95.8%	824.0	5.00	0.00	90	1.00	0.188	0.55	34.1	0.41	45.5	0.26	72.8
GMAF4409A	6.300	95.8%	851.0	5.00	0.00	90	1.00	0.188	0.57	33.1	0.43	44.1	0.26	71.2
GMAF4409A	6.300	95.8%	854.0	5.00	0.00	90	1.00	0.188	0.57	32.9	0.43	43.9	0.26	71.0
GMAF4409A	6.300	95.8%	860.0	5.00	0.00	90	1.00	0.188	0.57	32.7	0.43	43.6	0.27	70.7
GMAF4409A	6.300	95.8%	869.0	5.00	0.00	90	1.00	0.188	0.58	32.4	0.43	43.2	0.27	70.2
GMAF4410A	6.300	95.8%	806.0	2.00	0.00	90	1.00	0.094	0.54	17.5	0.40	23.3	0.25	37.0
GMAF4410A	6.300	95.8%	809.0	2.00	0.00	90	1.00	0.094	0.54	17.4	0.40	23.2	0.25	36.9
GMAF4410A	6.300	95.8%	816.5	2.00	0.00	90	1.00	0.094	0.54	17.3	0.41	23.0	0.26	36.7
GMAF4410A	6.300	95.8%	824.0	2.00	0.00	90	1.00	0.094	0.55	17.1	0.41	22.8	0.26	36.5
GMAF4410A	6.300	95.8%	851.0	2.00	0.00	90	1.00	0.094	0.57	16.6	0.43	22.1	0.26	35.7
GMAF4410A	6.300	95.8%	854.0	2.00	0.00	90	1.00	0.094	0.57	16.5	0.43	22.0	0.26	35.6
GMAF4410A	6.300	95.8%	860.0	2.00	0.00	90	1.00	0.094	0.57	16.4	0.43	21.9	0.27	35.4
GMAF4410A	6.300	95.8%	869.0	2.00	0.00	90	1.00	0.094	0.58	16.2	0.43	21.6	0.27	35.2
GMAF4411A	6.300	95.8%	806.0	2.00	0.00	90	1.00	0.094	0.54	17.5	0.40	23.3	0.25	37.0
GMAF4411A	6.300	95.8%	809.0	2.00	0.00	90	1.00	0.094	0.54	17.4	0.40	23.2	0.25	36.9
GMAF4411A	6.300	95.8%	816.5	2.00	0.00	90	1.00	0.094	0.54	17.3	0.41	23.0	0.26	36.7
GMAF4411A	6.300	95.8%	824.0	2.00	0.00	90	1.00	0.094	0.55	17.1	0.41	22.8	0.26	36.5
GMAF4411A	6.300	95.8%	851.0	2.00	0.00	90	1.00	0.094	0.57	16.6	0.43	22.1	0.26	35.7
GMAF4411A	6.300	95.8%	854.0	2.00	0.00	90	1.00	0.094	0.57	16.5	0.43	22.0	0.26	35.6
GMAF4411A	6.300	95.8%	860.0	2.00	0.00	90	1.00	0.094	0.57	16.4	0.43	21.9	0.27	35.4
GMAF4411A	6.300	95.8%	869.0	2.00	0.00	90	1.00	0.094	0.58	16.2	0.43	21.6	0.27	35.2
GMAF4412A	6.300	95.8%	806.0	2.00	0.00	90	1.00	0.094	0.54	17.5	0.40	23.3	0.25	37.0
GMAF4412A	6.300	95.8%	809.0	2.00	0.00	90	1.00	0.094	0.54	17.4	0.40	23.2	0.25	36.9
GMAF4412A	6.300	95.8%	816.5	2.00	0.00	90	1.00	0.094	0.54	17.3	0.41	23.0	0.26	36.7
GMAF4412A	6.300	95.8%	824.0	2.00	0.00	90	1.00	0.094	0.55	17.1	0.41	22.8	0.26	36.5
GMAF4412A	6.300	95.8%	851.0	2.00	0.00	90	1.00	0.094	0.57	16.6	0.43	22.1	0.26	35.7
GMAF4412A	6.300	95.8%	854.0	2.00	0.00	90	1.00	0.094	0.57	16.5	0.43	22.0	0.26	35.6
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GMAF4412A	6.300	95.8%	869.0	2.00	0.00	90	1.00	0.094	0.58	16.2	0.43	21.6	0.27	35.2
GMAF4413A	6.300	95.8%	806.0	5.00	0.00	90	1.00	0.188	0.54	34.9	0.40	46.5	0.25	73.9
GMAF4413A	6.300	95.8%	809.0	5.00	0.00	90	1.00	0.188	0.54	34.8	0.40	46.4	0.25	73.7
GMAF4413A	6.300	95.8%	816.5	5.00	0.00	90	1.00	0.188	0.54	34.4	0.41	45.9	0.26	73.3
GMAF4413A	6.300	95.8%	824.0	5.00	0.00	90	1.00	0.188	0.55	34.1	0.41	45.5	0.26	72.8
GMAF4413A	6.300	95.8%	851.0	5.00	0.00	90	1.00	0.188	0.57	33.1	0.43	44.1	0.26	71.2
GMAF4413A	6.300	95.8%	854.0	5.00	0.00	90	1.00	0.188	0.57	32.9	0.43	43.9	0.26	71.0
GMAF4413A	6.300	95.8%	860.0	5.00	0.00	90	1.00	0.188	0.57	32.7	0.43	43.6	0.27	70.7
GMAF4413A	6.300	95.8%	869.0	5.00	0.00	90	1.00	0.188	0.58	32.4	0.43	43.2	0.27	70.2

Table 6 Continued
MPE Calculation Results for bystander (Vehicle Installation)

Antenna #	Max Power (W)	Duty Cycle (%)	Tx Frequency (MHz)	Antenna Gain (dBi)	Cable Loss, L (dB)	Dist., d (cm)	Enhance Factor, F	Max Calc. MPE (mW/cm ²)	MPE Spec Limit (mW/cm ²)					
									FCC	% To FCC Spec Limit	ICNIRP	% To ICNIRP Spec Limit	ISED limit	% To ISED Spec Limit
GMAF4414A	6.300	95.8%	806.0	2.00	0.00	90	1.00	0.094	0.54	17.5	0.40	23.3	0.25	37.0
GMAF4414A	6.300	95.8%	809.0	2.00	0.00	90	1.00	0.094	0.54	17.4	0.40	23.2	0.25	36.9
GMAF4414A	6.300	95.8%	816.5	2.00	0.00	90	1.00	0.094	0.54	17.3	0.41	23.0	0.26	36.7
GMAF4414A	6.300	95.8%	824.0	2.00	0.00	90	1.00	0.094	0.55	17.1	0.41	22.8	0.26	36.5
GMAF4414A	6.300	95.8%	851.0	2.00	0.00	90	1.00	0.094	0.57	16.6	0.43	22.1	0.26	35.7
GMAF4414A	6.300	95.8%	854.0	2.00	0.00	90	1.00	0.094	0.57	16.5	0.43	22.0	0.26	35.6
GMAF4414A	6.300	95.8%	860.0	2.00	0.00	90	1.00	0.094	0.57	16.4	0.43	21.9	0.27	35.4
GMAF4414A	6.300	95.8%	869.0	2.00	0.00	90	1.00	0.094	0.58	16.2	0.43	21.6	0.27	35.2
GMAF4415A	6.300	95.8%	806.0	2.00	0.00	90	1.00	0.094	0.54	17.5	0.40	23.3	0.25	37.0
GMAF4415A	6.300	95.8%	809.0	2.00	0.00	90	1.00	0.094	0.54	17.4	0.40	23.2	0.25	36.9
GMAF4415A	6.300	95.8%	816.5	2.00	0.00	90	1.00	0.094	0.54	17.3	0.41	23.0	0.26	36.7
GMAF4415A	6.300	95.8%	824.0	2.00	0.00	90	1.00	0.094	0.55	17.1	0.41	22.8	0.26	36.5
GMAF4415A	6.300	95.8%	851.0	2.00	0.00	90	1.00	0.094	0.57	16.6	0.43	22.1	0.26	35.7
GMAF4415A	6.300	95.8%	854.0	2.00	0.00	90	1.00	0.094	0.57	16.5	0.43	22.0	0.26	35.6
GMAF4415A	6.300	95.8%	860.0	2.00	0.00	90	1.00	0.094	0.57	16.4	0.43	21.9	0.27	35.4
GMAF4415A	6.300	95.8%	869.0	2.00	0.00	90	1.00	0.094	0.58	16.2	0.43	21.6	0.27	35.2
GMAF4416A	6.300	95.8%	806.0	2.00	0.00	90	1.00	0.094	0.54	17.5	0.40	23.3	0.25	37.0
GMAF4416A	6.300	95.8%	809.0	2.00	0.00	90	1.00	0.094	0.54	17.4	0.40	23.2	0.25	36.9
GMAF4416A	6.300	95.8%	816.5	2.00	0.00	90	1.00	0.094	0.54	17.3	0.41	23.0	0.26	36.7
GMAF4416A	6.300	95.8%	824.0	2.00	0.00	90	1.00	0.094	0.55	17.1	0.41	22.8	0.26	36.5
GMAF4416A	6.300	95.8%	851.0	2.00	0.00	90	1.00	0.094	0.57	16.6	0.43	22.1	0.26	35.7
GMAF4416A	6.300	95.8%	854.0	2.00	0.00	90	1.00	0.094	0.57	16.5	0.43	22.0	0.26	35.6
GMAF4416A	6.300	95.8%	860.0	2.00	0.00	90	1.00	0.094	0.57	16.4	0.43	21.9	0.27	35.4
GMAF4416A	6.300	95.8%	869.0	2.00	0.00	90	1.00	0.094	0.58	16.2	0.43	21.6	0.27	35.2

Table 7
MPE Calculation Results for bystander (Motorcycle Installation)

Antenna #	Max Power (W)	Duty Cycle (%)	Tx Frequency (MHz)	Antenna Gain (dBi)	Cable Loss, L (dB)	Dist., d (cm)	Enhance Factor, F	Max Calc. MPE (mW/cm ²)	MPE Spec Limit (mW/cm ²)					
									FCC	% To FCC Spec Limit	ICNIRP	% To ICNIRP Spec Limit	ISED limit	% To ISED Spec Limit
GMAF4417A	6.300	95.8%	806.0	2.00	0.00	90	1.00	0.094	0.54	17.5	0.40	23.3	0.25	37.0
GMAF4417A	6.300	95.8%	809.0	2.00	0.00	90	1.00	0.094	0.54	17.4	0.40	23.2	0.25	36.9
GMAF4417A	6.300	95.8%	816.5	2.00	0.00	90	1.00	0.094	0.54	17.3	0.41	23.0	0.26	36.7
GMAF4417A	6.300	95.8%	824.0	2.00	0.00	90	1.00	0.094	0.55	17.1	0.41	22.8	0.26	36.5
GMAF4417A	6.300	95.8%	851.0	2.00	0.00	90	1.00	0.094	0.57	16.6	0.43	22.1	0.26	35.7
GMAF4417A	6.300	95.8%	854.0	2.00	0.00	90	1.00	0.094	0.57	16.5	0.43	22.0	0.26	35.6
GMAF4417A	6.300	95.8%	860.0	2.00	0.00	90	1.00	0.094	0.57	16.4	0.43	21.9	0.27	35.4
GMAF4417A	6.300	95.8%	869.0	2.00	0.00	90	1.00	0.094	0.58	16.2	0.43	21.6	0.27	35.2
GMAF4408A	6.300	95.8%	806.0	2.00	0.00	90	1.00	0.094	0.54	17.5	0.40	23.3	0.25	37.0
GMAF4408A	6.300	95.8%	809.0	2.00	0.00	90	1.00	0.094	0.54	17.4	0.40	23.2	0.25	36.9
GMAF4408A	6.300	95.8%	816.5	2.00	0.00	90	1.00	0.094	0.54	17.3	0.41	23.0	0.26	36.7
GMAF4408A	6.300	95.8%	824.0	2.00	0.00	90	1.00	0.094	0.55	17.1	0.41	22.8	0.26	36.5
GMAF4408A	6.300	95.8%	851.0	2.00	0.00	90	1.00	0.094	0.57	16.6	0.43	22.1	0.26	35.7
GMAF4408A	6.300	95.8%	854.0	2.00	0.00	90	1.00	0.094	0.57	16.5	0.43	22.0	0.26	35.6
GMAF4408A	6.300	95.8%	860.0	2.00	0.00	90	1.00	0.094	0.57	16.4	0.43	21.9	0.27	35.4
GMAF4408A	6.300	95.8%	869.0	2.00	0.00	90	1.00	0.094	0.58	16.2	0.43	21.6	0.27	35.2
GMAF4409A	6.300	95.8%	806.0	5.00	0.00	90	1.00	0.188	0.54	34.9	0.40	46.5	0.25	73.9
GMAF4409A	6.300	95.8%	809.0	5.00	0.00	90	1.00	0.188	0.54	34.8	0.40	46.4	0.25	73.7
GMAF4409A	6.300	95.8%	816.5	5.00	0.00	90	1.00	0.188	0.54	34.4	0.41	45.9	0.26	73.3
GMAF4409A	6.300	95.8%	824.0	5.00	0.00	90	1.00	0.188	0.55	34.1	0.41	45.5	0.26	72.8
GMAF4409A	6.300	95.8%	851.0	5.00	0.00	90	1.00	0.188	0.57	33.1	0.43	44.1	0.26	71.2
GMAF4409A	6.300	95.8%	854.0	5.00	0.00	90	1.00	0.188	0.57	32.9	0.43	43.9	0.26	71.0
GMAF4409A	6.300	95.8%	860.0	5.00	0.00	90	1.00	0.188	0.57	32.7	0.43	43.6	0.27	70.7
GMAF4409A	6.300	95.8%	869.0	5.00	0.00	90	1.00	0.188	0.58	32.4	0.43	43.2	0.27	70.2

Table 7 Continued**MPE Calculation Results for bystander (Motorcycle Installation)**

Antenna #	Max Power (W)	Duty Cycle (%)	Tx Frequency (MHz)	Antenna Gain (dBi)	Cable Loss, L (dB)	Dist., d (cm)	Enhance Factor, F	Max Calc. MPE (mW/cm ²)	MPE Spec Limit (mW/cm ²)					
									FCC	% To FCC Spec Limit	ICNIRP	% To ICNIRP Spec Limit	ISED limit	% To ISED Spec Limit
GMAF4410A	6.300	95.8%	806.0	2.00	0.00	90	1.00	0.094	0.54	17.5	0.40	23.3	0.25	37.0
GMAF4410A	6.300	95.8%	809.0	2.00	0.00	90	1.00	0.094	0.54	17.4	0.40	23.2	0.25	36.9
GMAF4410A	6.300	95.8%	816.5	2.00	0.00	90	1.00	0.094	0.54	17.3	0.41	23.0	0.26	36.7
GMAF4410A	6.300	95.8%	824.0	2.00	0.00	90	1.00	0.094	0.55	17.1	0.41	22.8	0.26	36.5
GMAF4410A	6.300	95.8%	851.0	2.00	0.00	90	1.00	0.094	0.57	16.6	0.43	22.1	0.26	35.7
GMAF4410A	6.300	95.8%	854.0	2.00	0.00	90	1.00	0.094	0.57	16.5	0.43	22.0	0.26	35.6
GMAF4410A	6.300	95.8%	860.0	2.00	0.00	90	1.00	0.094	0.57	16.4	0.43	21.9	0.27	35.4
GMAF4410A	6.300	95.8%	869.0	2.00	0.00	90	1.00	0.094	0.58	16.2	0.43	21.6	0.27	35.2
GMAF4411A	6.300	95.8%	806.0	2.00	0.00	90	1.00	0.094	0.54	17.5	0.40	23.3	0.25	37.0
GMAF4411A	6.300	95.8%	809.0	2.00	0.00	90	1.00	0.094	0.54	17.4	0.40	23.2	0.25	36.9
GMAF4411A	6.300	95.8%	816.5	2.00	0.00	90	1.00	0.094	0.54	17.3	0.41	23.0	0.26	36.7
GMAF4411A	6.300	95.8%	824.0	2.00	0.00	90	1.00	0.094	0.55	17.1	0.41	22.8	0.26	36.5
GMAF4411A	6.300	95.8%	851.0	2.00	0.00	90	1.00	0.094	0.57	16.6	0.43	22.1	0.26	35.7
GMAF4411A	6.300	95.8%	854.0	2.00	0.00	90	1.00	0.094	0.57	16.5	0.43	22.0	0.26	35.6
GMAF4411A	6.300	95.8%	860.0	2.00	0.00	90	1.00	0.094	0.57	16.4	0.43	21.9	0.27	35.4
GMAF4411A	6.300	95.8%	869.0	2.00	0.00	90	1.00	0.094	0.58	16.2	0.43	21.6	0.27	35.2
GMAF4412A	6.300	95.8%	806.0	2.00	0.00	90	1.00	0.094	0.54	17.5	0.40	23.3	0.25	37.0
GMAF4412A	6.300	95.8%	809.0	2.00	0.00	90	1.00	0.094	0.54	17.4	0.40	23.2	0.25	36.9
GMAF4412A	6.300	95.8%	816.5	2.00	0.00	90	1.00	0.094	0.54	17.3	0.41	23.0	0.26	36.7
GMAF4412A	6.300	95.8%	824.0	2.00	0.00	90	1.00	0.094	0.55	17.1	0.41	22.8	0.26	36.5
GMAF4412A	6.300	95.8%	851.0	2.00	0.00	90	1.00	0.094	0.57	16.6	0.43	22.1	0.26	35.7
GMAF4412A	6.300	95.8%	854.0	2.00	0.00	90	1.00	0.094	0.57	16.5	0.43	22.0	0.26	35.6
GMAF4412A	6.300	95.8%	860.0	2.00	0.00	90	1.00	0.094	0.57	16.4	0.43	21.9	0.27	35.4
GMAF4412A	6.300	95.8%	869.0	2.00	0.00	90	1.00	0.094	0.58	16.2	0.43	21.6	0.27	35.2
GMAF4413A	6.300	95.8%	806.0	5.00	0.00	90	1.00	0.188	0.54	34.9	0.40	46.5	0.25	73.9
GMAF4413A	6.300	95.8%	809.0	5.00	0.00	90	1.00	0.188	0.54	34.8	0.40	46.4	0.25	73.7
GMAF4413A	6.300	95.8%	816.5	5.00	0.00	90	1.00	0.188	0.54	34.4	0.41	45.9	0.26	73.3
GMAF4413A	6.300	95.8%	824.0	5.00	0.00	90	1.00	0.188	0.55	34.1	0.41	45.5	0.26	72.8
GMAF4413A	6.300	95.8%	851.0	5.00	0.00	90	1.00	0.188	0.57	33.1	0.43	44.1	0.26	71.2
GMAF4413A	6.300	95.8%	854.0	5.00	0.00	90	1.00	0.188	0.57	32.9	0.43	43.9	0.26	71.0
GMAF4413A	6.300	95.8%	860.0	5.00	0.00	90	1.00	0.188	0.57	32.7	0.43	43.6	0.27	70.7
GMAF4413A	6.300	95.8%	869.0	5.00	0.00	90	1.00	0.188	0.58	32.4	0.43	43.2	0.27	70.2
GMAF4414A	6.300	95.8%	806.0	2.00	0.00	90	1.00	0.094	0.54	17.5	0.40	23.3	0.25	37.0
GMAF4414A	6.300	95.8%	809.0	2.00	0.00	90	1.00	0.094	0.54	17.4	0.40	23.2	0.25	36.9
GMAF4414A	6.300	95.8%	816.5	2.00	0.00	90	1.00	0.094	0.54	17.3	0.41	23.0	0.26	36.7
GMAF4414A	6.300	95.8%	824.0	2.00	0.00	90	1.00	0.094	0.55	17.1	0.41	22.8	0.26	36.5
GMAF4414A	6.300	95.8%	851.0	2.00	0.00	90	1.00	0.094	0.57	16.6	0.43	22.1	0.26	35.7
GMAF4414A	6.300	95.8%	854.0	2.00	0.00	90	1.00	0.094	0.57	16.5	0.43	22.0	0.26	35.6
GMAF4414A	6.300	95.8%	860.0	2.00	0.00	90	1.00	0.094	0.57	16.4	0.43	21.9	0.27	35.4
GMAF4414A	6.300	95.8%	869.0	2.00	0.00	90	1.00	0.094	0.58	16.2	0.43	21.6	0.27	35.2
GMAF4415A	6.300	95.8%	806.0	2.00	0.00	90	1.00	0.094	0.54	17.5	0.40	23.3	0.25	37.0
GMAF4415A	6.300	95.8%	809.0	2.00	0.00	90	1.00	0.094	0.54	17.4	0.40	23.2	0.25	36.9
GMAF4415A	6.300	95.8%	816.5	2.00	0.00	90	1.00	0.094	0.54	17.3	0.41	23.0	0.26	36.7
GMAF4415A	6.300	95.8%	824.0	2.00	0.00	90	1.00	0.094	0.55	17.1	0.41	22.8	0.26	36.5
GMAF4415A	6.300	95.8%	851.0	2.00	0.00	90	1.00	0.094	0.57	16.6	0.43	22.1	0.26	35.7
GMAF4415A	6.300	95.8%	854.0	2.00	0.00	90	1.00	0.094	0.57	16.5	0.43	22.0	0.26	35.6
GMAF4415A	6.300	95.8%	860.0	2.00	0.00	90	1.00	0.094	0.57	16.4	0.43	21.9	0.27	35.4
GMAF4415A	6.300	95.8%	869.0	2.00	0.00	90	1.00	0.094	0.58	16.2	0.43	21.6	0.27	35.2
GMAF4416A	6.300	95.8%	806.0	2.00	0.00	90	1.00	0.094	0.54	17.5	0.40	23.3	0.25	37.0
GMAF4416A	6.300	95.8%	809.0	2.00	0.00	90	1.00	0.094	0.54	17.4	0.40	23.2	0.25	36.9
GMAF4416A	6.300	95.8%	816.5	2.00	0.00	90	1.00	0.094	0.54	17.3	0.41	23.0	0.26	36.7
GMAF4416A	6.300	95.8%	824.0	2.00	0.00	90	1.00	0.094	0.55	17.1	0.41	22.8	0.26	36.5
GMAF4416A	6.300	95.8%	851.0	2.00	0.00	90	1.00	0.094	0.57	16.6	0.43	22.1	0.26	35.7
GMAF4416A	6.300	95.8%	854.0	2.00	0.00	90	1.00	0.094	0.57	16.5	0.43	22.0	0.26	35.6
GMAF4416A	6.300	95.8%	860.0	2.00	0.00	90	1.00	0.094	0.57	16.4	0.43	21.9	0.27	35.4
GMAF4416A	6.300	95.8%	869.0	2.00	0.00	90	1.00	0.094	0.58	16.2	0.43	21.6	0.27	35.2

Table 8
MPE Calculation Results for Operator (Motorcycle Installation)

Antenna #	Max Power (W)	Duty Cycle (%)	Tx Frequency (MHz)	Antenna Gain (dBi)	Cable Loss, L (dB)	Dist., d (cm)	Enhance Factor, F	Max Calc. MPE (mW/cm ²)	MPE Spec Limit (mW/cm ²)					
									FCC	% To FCC Spec Limit	ICNRP	% To ICNRP Spec Limit	ISED limit	% To ISED Spec Limit
GMAF4417A	6.300	95.8%	806.0	2.00	0.00	30	1.00	0.846	2.69	31.5	2.02	42.0	1.83	46.2
GMAF4417A	6.300	95.8%	809.0	2.00	0.00	30	1.00	0.846	2.70	31.4	2.02	41.8	1.84	46.1
GMAF4417A	6.300	95.8%	816.5	2.00	0.00	30	1.00	0.846	2.72	31.1	2.04	41.4	1.84	45.9
GMAF4417A	6.300	95.8%	824.0	2.00	0.00	30	1.00	0.846	2.75	30.8	2.06	41.1	1.85	45.6
GMAF4417A	6.300	95.8%	851.0	2.00	0.00	30	1.00	0.846	2.84	29.8	2.13	39.8	1.88	44.9
GMAF4417A	6.300	95.8%	854.0	2.00	0.00	30	1.00	0.846	2.85	29.7	2.14	39.6	1.89	44.8
GMAF4417A	6.300	95.8%	860.0	2.00	0.00	30	1.00	0.846	2.87	29.5	2.15	39.3	1.89	44.7
GMAF4417A	6.300	95.8%	869.0	2.00	0.00	30	1.00	0.846	2.90	29.2	2.17	38.9	1.90	44.4
GMAF4408A	6.300	95.8%	806.0	2.00	0.00	30	1.00	0.846	2.69	31.5	2.02	42.0	1.83	46.2
GMAF4408A	6.300	95.8%	809.0	2.00	0.00	30	1.00	0.846	2.70	31.4	2.02	41.8	1.84	46.1
GMAF4408A	6.300	95.8%	816.5	2.00	0.00	30	1.00	0.846	2.72	31.1	2.04	41.4	1.84	45.9
GMAF4408A	6.300	95.8%	824.0	2.00	0.00	30	1.00	0.846	2.75	30.8	2.06	41.1	1.85	45.6
GMAF4408A	6.300	95.8%	851.0	2.00	0.00	30	1.00	0.846	2.84	29.8	2.13	39.8	1.88	44.9
GMAF4408A	6.300	95.8%	854.0	2.00	0.00	30	1.00	0.846	2.85	29.7	2.14	39.6	1.89	44.8
GMAF4408A	6.300	95.8%	860.0	2.00	0.00	30	1.00	0.846	2.87	29.5	2.15	39.3	1.89	44.7
GMAF4408A	6.300	95.8%	869.0	2.00	0.00	30	1.00	0.846	2.90	29.2	2.17	38.9	1.90	44.4
GMAF4409A	6.300	95.8%	806.0	5.00	0.00	30	1.00	1.688	2.69	62.8	2.02	83.7	1.83	92.1
GMAF4409A	6.300	95.8%	809.0	5.00	0.00	30	1.00	1.688	2.70	62.6	2.02	83.4	1.84	91.9
GMAF4409A	6.300	95.8%	816.5	5.00	0.00	30	1.00	1.688	2.72	62.0	2.04	82.7	1.84	91.5
GMAF4409A	6.300	95.8%	824.0	5.00	0.00	30	1.00	1.688	2.75	61.4	2.06	81.9	1.85	91.1
GMAF4409A	6.300	95.8%	851.0	5.00	0.00	30	1.00	1.688	2.84	59.5	2.13	79.3	1.88	89.6
GMAF4409A	6.300	95.8%	854.0	5.00	0.00	30	1.00	1.688	2.85	59.3	2.14	79.0	1.89	89.5
GMAF4409A	6.300	95.8%	860.0	5.00	0.00	30	1.00	1.688	2.87	58.9	2.15	78.5	1.89	89.1
GMAF4409A	6.300	95.8%	869.0	5.00	0.00	30	1.00	1.688	2.90	58.3	2.17	77.7	1.90	88.7
GMAF4410A	6.300	95.8%	806.0	2.00	0.00	30	1.00	0.846	2.69	31.5	2.02	42.0	1.83	46.2
GMAF4410A	6.300	95.8%	809.0	2.00	0.00	30	1.00	0.846	2.70	31.4	2.02	41.8	1.84	46.1
GMAF4410A	6.300	95.8%	816.5	2.00	0.00	30	1.00	0.846	2.72	31.1	2.04	41.4	1.84	45.9
GMAF4410A	6.300	95.8%	824.0	2.00	0.00	30	1.00	0.846	2.75	30.8	2.06	41.1	1.85	45.6
GMAF4410A	6.300	95.8%	851.0	2.00	0.00	30	1.00	0.846	2.84	29.8	2.13	39.8	1.88	44.9
GMAF4410A	6.300	95.8%	854.0	2.00	0.00	30	1.00	0.846	2.85	29.7	2.14	39.6	1.89	44.8
GMAF4410A	6.300	95.8%	860.0	2.00	0.00	30	1.00	0.846	2.87	29.5	2.15	39.3	1.89	44.7
GMAF4410A	6.300	95.8%	869.0	2.00	0.00	30	1.00	0.846	2.90	29.2	2.17	38.9	1.90	44.4
GMAF4411A	6.300	95.8%	806.0	2.00	0.00	30	1.00	0.846	2.69	31.5	2.02	42.0	1.83	46.2
GMAF4411A	6.300	95.8%	809.0	2.00	0.00	30	1.00	0.846	2.70	31.4	2.02	41.8	1.84	46.1
GMAF4411A	6.300	95.8%	816.5	2.00	0.00	30	1.00	0.846	2.72	31.1	2.04	41.4	1.84	45.9
GMAF4411A	6.300	95.8%	824.0	2.00	0.00	30	1.00	0.846	2.75	30.8	2.06	41.1	1.85	45.6
GMAF4411A	6.300	95.8%	851.0	2.00	0.00	30	1.00	0.846	2.84	29.8	2.13	39.8	1.88	44.9
GMAF4411A	6.300	95.8%	854.0	2.00	0.00	30	1.00	0.846	2.85	29.7	2.14	39.6	1.89	44.8
GMAF4411A	6.300	95.8%	860.0	2.00	0.00	30	1.00	0.846	2.87	29.5	2.15	39.3	1.89	44.7
GMAF4411A	6.300	95.8%	869.0	2.00	0.00	30	1.00	0.846	2.90	29.2	2.17	38.9	1.90	44.4
GMAF4412A	6.300	95.8%	806.0	2.00	0.00	30	1.00	0.846	2.69	31.5	2.02	42.0	1.83	46.2
GMAF4412A	6.300	95.8%	809.0	2.00	0.00	30	1.00	0.846	2.70	31.4	2.02	41.8	1.84	46.1
GMAF4412A	6.300	95.8%	816.5	2.00	0.00	30	1.00	0.846	2.72	31.1	2.04	41.4	1.84	45.9
GMAF4412A	6.300	95.8%	824.0	2.00	0.00	30	1.00	0.846	2.75	30.8	2.06	41.1	1.85	45.6
GMAF4412A	6.300	95.8%	851.0	2.00	0.00	30	1.00	0.846	2.84	29.8	2.13	39.8	1.88	44.9
GMAF4412A	6.300	95.8%	854.0	2.00	0.00	30	1.00	0.846	2.85	29.7	2.14	39.6	1.89	44.8
GMAF4412A	6.300	95.8%	860.0	2.00	0.00	30	1.00	0.846	2.87	29.5	2.15	39.3	1.89	44.7
GMAF4412A	6.300	95.8%	869.0	2.00	0.00	30	1.00	0.846	2.90	29.2	2.17	38.9	1.90	44.4
GMAF4413A	6.300	95.8%	806.0	5.00	0.00	30	1.00	1.688	2.69	62.8	2.02	83.7	1.83	92.1
GMAF4413A	6.300	95.8%	809.0	5.00	0.00	30	1.00	1.688	2.70	62.6	2.02	83.4	1.84	91.9
GMAF4413A	6.300	95.8%	816.5	5.00	0.00	30	1.00	1.688	2.72	62.0	2.04	82.7	1.84	91.5
GMAF4413A	6.300	95.8%	824.0	5.00	0.00	30	1.00	1.688	2.75	61.4	2.06	81.9	1.85	91.1
GMAF4413A	6.300	95.8%	851.0	5.00	0.00	30	1.00	1.688	2.84	59.5	2.13	79.3	1.88	89.6
GMAF4413A	6.300	95.8%	854.0	5.00	0.00	30	1.00	1.688	2.85	59.3	2.14	79.0	1.89	89.5
GMAF4413A	6.300	95.8%	860.0	5.00	0.00	30	1.00	1.688	2.87	58.9	2.15	78.5	1.89	89.1
GMAF4413A	6.300	95.8%	869.0	5.00	0.00	30	1.00	1.688	2.90	58.3	2.17	77.7	1.90	88.7
GMAF4414A	6.300	95.8%	806.0	2.00	0.00	30	1.00	0.846	2.69	31.5	2.02	42.0	1.83	46.2
GMAF4414A	6.300	95.8%	809.0	2.00	0.00	30	1.00	0.846	2.70	31.4	2.02	41.8	1.84	46.1
GMAF4414A	6.300	95.8%	816.5	2.00	0.00	30	1.00	0.846	2.72	31.1	2.04	41.4	1.84	45.9
GMAF4414A	6.300	95.8%	824.0	2.00	0.00	30	1.00	0.846	2.75	30.8	2.06	41.1	1.85	45.6
GMAF4414A	6.300	95.8%	851.0	2.00	0.00	30	1.00	0.846	2.84	29.8	2.13	39.8	1.88	44.9
GMAF4414A	6.300	95.8%	854.0	2.00	0.00	30	1.00	0.846	2.85	29.7	2.14	39.6	1.89	44.8
GMAF4414A	6.300	95.8%	860.0	2.00	0.00	30	1.00	0.846	2.87	29.5	2.15	39.3	1.89	44.7
GMAF4414A	6.300	95.8%	869.0	2.00	0.00	30	1.00	0.846	2.90	29.2	2.17	38.9	1.90	44.4
GMAF4415A	6.300	95.8%	806.0	2.00	0.00	30	1.00	0.846	2.69	31.5	2.02	42.0	1.83	46.2
GMAF4415A	6.300	95.8%	809.0	2.00	0.00	30	1.00	0.846	2.70	31.4	2.02	41.8	1.84	46.1
GMAF4415A	6.300	95.8%	816.5	2.00	0.00	30	1.00	0.846	2.72	31.1	2.04	41.4	1.84	45.9
GMAF4415A	6.300	95.8%	824.0	2.00	0.00	30	1.00	0.846	2.75	30.8	2.06	41.1	1.85	45.6
GMAF4415A	6.300	95.8%	851.0	2.00	0.00	30	1.00	0.846	2.84	29.8	2.13	39.8	1.88	44.9
GMAF4415A	6.300	95.8%	854.0	2.00	0.00	30	1.00	0.846	2.85	29.7	2.14	39.6	1.89	44.8
GMAF4415A	6.300	95.8%	860.0	2.00	0.00	30	1.00	0.846	2.87	29.5	2.15	39.3	1.89	44.7
GMAF4415A	6.300	95.8%	869.0	2.00	0.00	30	1.00	0.846	2.90	29.2	2.17	38.9	1.90	44.4
GMAF4416A	6.300	95.8%	806.0	2.00	0.00	30	1.00	0.846	2.69	31.5	2.02	42.0	1.83	46.2
GMAF4416A	6.300	95.8%	809.0	2.00	0.00	30	1.00	0.846	2.70	31.4	2.02	41.8	1.84	46.1
GMAF4416A	6.300	95.8%	816.5	2.00	0.00	30	1.00	0.846	2.72	31.1	2.04	41.4	1.84	45.9
GMAF4416A	6.300	95.8%	824.0	2.00	0.00	30	1.00	0.846	2.75	30.8	2.06	41.1	1.85	45.6
GMAF4416A	6.300	95.8%	851.0	2.00	0.00	30	1.00	0.846	2.84	29.8	2.13	39.8	1.88	44.9
GMAF4416A	6.300	95.8%	854.0	2.00	0.00	30	1.00	0.846	2.85	29.7	2.14	39.6	1.89	44.8
GMAF4416A	6.300	95.8%	860.0	2.00	0.00	30	1.00	0.846	2.87	29.5	2.15	39.3	1.89	44.7
GMAF4416A	6.300	95.8%	869.0	2.00	0.00	30	1.00	0.846	2.90	29.2	2.17	38.9	1.90	44.4

10.0 Conclusion

The MPE calculation presented in this report concludes that, bystanders are compliant to General Population/Uncontrolled RF exposure limits. Whereas, Operators are compliant to Occupational/Controlled RF exposure limit.

Table 9: Maximum MPE RF Exposure Summary

Designator	Operator		Bystander	
	Power Density (mW/cm ²)	Percentage of Limit (%)	Power Density (mW/cm ²)	Percentage of Limit (%)
FCC	1.688	62.80	0.188	34.90
ISED	1.688	92.10	0.188	73.90
ICNIRP	1.688	83.70	0.188	46.50