



CERTIFICATE 2518.05

DECLARATION OF COMPLIANCE: MPE ASSESSMENT Part 2 of 2
**Motorola Solutions Inc.
EME Test Laboratory**

Motorola Solutions Malaysia Sdn Bhd
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Date of Report: 2/18/2020
Report Revision: A

Responsible Engineer: Goh Jue Yie (EME Engineer)
Report author: Goh Jue Yie (EME Engineer)
Date(s) Tested: 2/17/2017-3/17/2017; 12/25/2019- 12/27/2019; 2/09/2020 - 2/12/2020
Manufacturer: Futurecom Systems Group (DVR), Motorola Solutions. Inc (Mobile)
Date submitted for test: 01/13/2017; 12/23/2019
DUT Description: **APX6500 UHF R1:** Multiple HW Encryption WiFi Interoperability Data Modem Tethering via WiFi or Cable
Companion Device: DVR 700 (764-776 MHz; 794-806MHz), Digital Vehicular Repeater CW
Test TX mode(s):
Max. Power output: **APX6500 UHF R1:** 48W (380-470 MHz); 11.22 mW (Bluetooth); 6.3 mW (Bluetooth LE); 39.8 mW (WLAN 2.4GHz 802.11b), 15.8 mW (WLAN 2.4GHz 802.11g), 12.6mW (WLAN 2.4GHz 802.11n); 15.8mW (WLAN 5GHz 802.11a/n/ac)
Companion Device: 5W (DVR 700)
TX Frequency Bands: **APX6500 UHF R1:** 380-470 MHz; WLAN 2412-2462 MHz; WLAN 5180-5825 MHz; BT 2402-2480 MHz
Companion Device: 764-776 MHz; 794-806MHz
Signaling type: FM, TDMA, FHSS (Bluetooth), 802.11b/g/n (WLAN 2.4 GHz), 802.11 a/n/ac (WLAN 5 GHz)
Model(s) Tested: **APX6500 UHF R1:** M25QSS9PW1BN (PMUE5620A)
Companion Device: MOBEXCOM DVRS 700 (DQPM DV7000P)
Model(s) Certified: M22QSS9PW1BN (PMUE5620A), M24QSS9PW1BN (PMUE5620A), M25QSS9PW1BN (PMUE5620A), M36QSS9PW1BN (PMUE5620A), M25QSS9PW1BN (PMUE5620A), MOBEXCOM DVRS 700 (DQPM DV7000P)
Serial Number(s): 471TVZ0903 (APX6500 UHF R1) , 16092663 (DVR 700)
Classification: Occupational/Controlled Environment
FCC ID: **APX6500 UHF R1:** AZ492FT7129 (406.1-470 MHz, 2402-2480 MHz, 2412-2462 MHz; 5180-5825 MHz)
Companion Device: LO6-DVRS700 (769-775 MHz; 799-806MHz)
This report contains results that are immaterial for FCC equipment approval, which are clearly identified.
IC: **APX6500 UHF R1:** 109U-92FT7129
Companion Device: 2098B-DVRS700
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.

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: 4/2/2020

Appendix D – MPE Test Results Summary for APX6500 UHF R1

Table D.1

MPE assessment for APX6500 UHF R1 - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS1	E	1	HAE4003A, 450-470MHz	48	46.8	450.0125	0.03	0.30	10.9	0.17	19.1
						47.0	460.0000	0.03	0.31	9.4	0.17	16.7
						47.4	469.9875	0.03	0.31	9.3	0.18	16.7
Roof	BS2	E	1	HAE4003A, 450-470MHz	48	46.8	450.0125	0.02	0.3	7.7	0.23	10.3
						47.0	460.0000	0.02	0.31	7.9	0.23	10.6
						47.4	469.9875	0.02	0.31	6.5	0.23	8.7
Roof	BS3	E	1	HAE4003A, 450-470MHz	48	46.8	450.0125	0.02	0.30	6.0	0.17	10.6
						47.0	460.0000	0.02	0.31	5.7	0.17	10.1
						47.4	469.9875	0.01	0.31	4.7	0.18	8.5
Roof	BS4	E	1	HAE4003A, 450-470MHz	48	46.8	450.0125	0.01	0.30	4.2	0.17	7.4
						47.0	460.0000	0.01	0.31	2.8	0.17	5.0
						47.4	469.9875	0.01	0.31	3.9	0.17	7.0
Roof	BS5	E	1	HAE4003A, 450-470MHz	48	46.8	450.0125	0.01	0.30	1.9	0.17	3.4
						47	460.0000	0.01	0.31	2.0	0.17	3.6
						47.4	469.9875	0.01	0.31	1.9	0.18	3.3
Roof	BS1	E	2	HAE4011A, 450-470MHz	48	46.8	450.0125	0.02	0.30	7.4	0.17	13.1
						47.0	460.0000	0.02	0.31	7.9	0.17	14.1
						47.4	469.9875	0.02	0.31	5.7	0.18	10.1
Roof	BS2	E	2	HAE4011A, 450-470MHz	48	46.8	450.0125	0.02	0.30	6.0	0.17	10.5
						47.0	460.0000	0.02	0.31	7.5	0.17	13.4
						47.4	469.9875	0.02	0.31	4.9	0.18	8.7
Roof	BS3	E	2	HAE4011A, 450-470MHz	48	46.8	450.0125	0.01	0.30	4.6	0.17	8.2
						47.0	460.0000	0.01	0.31	4.5	0.17	7.9
						47.4	469.9875	0.01	0.31	3.4	0.18	6.1

Table D.1 (Continued)**MPE assessment for APX6500 UHF R1 - roof mounted antenna – Bystander**

Note:

Blue fonts: Frequencies not regulated by FCC.

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS4	E	2	HAE4011A, 450-470MHz	48	46.8	450.0125	0.01	0.30	3.2	0.17	5.7
						47.0	460.0000	0.01	0.31	3.2	0.17	5.7
						47.4	469.9875	0.01	0.31	1.4	0.18	7.3
Roof	BS5	E	2	HAE4011A, 450-470MHz	48	46.8	450.0125	0.01	0.30	4.0	0.17	7.1
						47.0	460.0000	0.01	0.31	2.9	0.17	5.1
						47.4	469.9875	0.01	0.31	2.3	0.18	4.1
Roof	BS1	E	3	HAE6010A, 380-433MHz	48	47.6	380.0125	0.01	0.25	5.1	0.15	8.5
						47.6	393.0125	0.01	0.26	5.4	0.16	9.1
						47.1	406.5000	0.01	0.27	4.9	0.16	8.3
						47.4	419.5000	0.01	0.28	5.1	0.16	8.8
						46.6	432.9875	0.02	0.29	5.4	0.17	9.3
Roof	BS2	E	3	HAE6010A, 380-433MHz	48	47.6	380.0125	0.01	0.25	3.9	0.15	6.4
						47.6	393.0125	0.01	0.26	4.6	0.16	7.7
						47.1	406.5000	0.01	0.27	4.7	0.16	8.1
						47.4	419.5000	0.01	0.28	4.6	0.16	7.9
						46.6	432.9875	0.01	0.29	4.3	0.17	7.6
Roof	BS3	E	3	HAE6010A, 380-433MHz	48	47.6	380.0125	0.01	0.25	2.4	0.15	3.9
						47.6	393.0125	0.01	0.26	3.1	0.16	5.3
						47.1	406.5000	0.01	0.27	3.1	0.16	5.2
						47.4	419.5000	0.01	0.28	3.5	0.16	6.1
						46.6	432.9875	0.01	0.29	3.8	0.17	6.7
Roof	BS4	E	3	HAE6010A, 380-433MHz	48	47.6	380.0125	0.00	0.25	1.3	0.15	2.1
						47.6	393.0125	0.01	0.26	1.9	0.16	3.3
						47.1	406.5000	0.01	0.27	3.1	0.16	5.3
						47.4	419.5000	0.01	0.28	2.7	0.16	4.6
						46.6	432.9875	0.01	0.29	1.9	0.17	3.3

Table D.1 (Continued)**MPE assessment for APX6500 UHF R1 - roof mounted antenna – Bystander**

Note:

Blue fonts: Frequencies not regulated by FCC.

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS5	E	3	HAE6010A, 380-433MHz	48	47.6	380.0125	0.00	0.25	0.3	0.15	0.4
						47.6	393.0125	0.00	0.26	0.5	0.16	0.8
						47.1	406.5000	0.00	0.27	0.7	0.16	1.2
						47.4	419.5000	0.00	0.28	1.5	0.16	2.7
						46.6	432.9875	0.00	0.29	1.2	0.17	2.1
Roof	BS1	E	4	HAE6011A, 380-433MHz	48	47.6	380.0125	0.01	0.25	4.3	0.15	7.2
						47.6	393.0125	0.01	0.26	4.0	0.16	6.8
						47.1	406.5000	0.01	0.27	4.2	0.16	7.1
						47.4	419.5000	0.01	0.28	3.6	0.16	6.3
						46.6	432.9875	0.01	0.29	2.0	0.17	3.5
Roof	BS2	E	4	HAE6011A, 380-433MHz	48	47.6	380.0125	0.02	0.25	8.4	0.15	14.0
						47.6	393.0125	0.02	0.26	8.1	0.16	13.7
						47.1	406.5000	0.02	0.27	6.1	0.16	10.4
						47.4	419.5000	0.02	0.28	6.4	0.16	10.9
						46.6	432.9875	0.01	0.29	4.1	0.17	7.2
Roof	BS3	E	4	HAE6011A, 380-433MHz	48	47.6	380.0125	0.02	0.25	5.9	0.15	9.9
						47.6	393.0125	0.02	0.26	7.3	0.16	12.3
						47.1	406.5000	0.03	0.27	9.4	0.16	16.0
						47.4	419.5000	0.01	0.28	4.7	0.16	8.2
						46.6	432.9875	0.01	0.29	3.1	0.17	5.4

Table D.1 (Continued)**MPE assessment for APX6500 UHF R1 - roof mounted antenna – Bystander**

Note:

Blue fonts: Frequencies not regulated by FCC.

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS4	E	4	HAE6011A, 380-433MHz	48	47.6	380.0125	0.01	0.25	4.3	0.15	7.1
						47.6	393.0125	0.02	0.26	6.3	0.16	10.7
						47.1	406.5000	0.01	0.27	3.6	0.16	6.1
						47.4	419.5000	0.01	0.28	3.2	0.16	5.4
						46.6	432.9875	0.01	0.29	1.9	0.17	3.4
Roof	BS5	E	4	HAE6011A, 380-433MHz	48	47.6	380.0125	0.01	0.25	4.3	0.15	7.2
						47.6	393.0125	0.01	0.26	4.0	0.16	6.8
						47.1	406.5000	0.01	0.27	4.2	0.16	7.1
						47.4	419.5000	0.01	0.28	3.6	0.16	6.3
						46.6	432.9875	0.01	0.29	2.0	0.17	3.5
Roof	BS1	E	5	HAE6012A, 380-433MHz	48	47.6	380.0125	0.04	0.25	14.0	0.15	23.3
						47.6	393.0125	0.03	0.26	12.1	0.16	20.4
						47.1	406.5000	0.03	0.27	11.0	0.16	18.8
						47.4	419.5000	0.03	0.28	9.1	0.16	15.7
						46.6	432.9875	0.02	0.29	8.3	0.17	14.5
Roof	BS2	E	5	HAE6012A, 380-433MHz	48	47.6	380.0125	0.03	0.25	10.1	0.15	16.9
						47.6	393.0125	0.02	0.26	9.1	0.16	15.4
						47.1	406.5000	0.02	0.27	7.2	0.16	12.2
						47.4	419.5000	0.02	0.28	7.8	0.16	13.5
						46.6	432.9875	0.02	0.29	5.7	0.17	9.9

Table D.1 (Continued)**MPE assessment for APX6500 UHF R1 - roof mounted antenna – Bystander**

Note:

Blue fonts: Frequencies not regulated by FCC.

Results in bold font are configurations with highest percentage of limits.

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS3	E	5	HAE6012A, 380-433MHz	48	47.6	380.0125	0.02	0.25	6.9	0.15	11.5
						47.6	393.0125	0.02	0.26	8.1	0.16	13.7
						47.1	406.5000	0.02	0.27	8.9	0.16	15.2
						47.4	419.5000	0.02	0.28	6.7	0.16	11.5
						46.6	432.9875	0.02	0.29	6.7	0.17	11.7
Roof	BS4	E	5	HAE6012A, 380-433MHz	48	47.6	380.0125	0.01	0.25	4.6	0.15	7.7
						47.6	393.0125	0.01	0.26	4.6	0.16	7.8
						47.1	406.5000	0.01	0.27	4.4	0.16	7.5
						47.4	419.5000	0.01	0.28	4.6	0.16	7.8
						46.6	432.9875	0.01	0.29	3.7	0.17	6.5
Roof	BS5	E	5	HAE6012A, 380-433MHz	48	47.6	380.0125	0.01	0.25	2.0	0.15	3.4
						47.6	393.0125	0.01	0.26	2.1	0.16	3.6
						47.1	406.5000	0.01	0.27	2.9	0.16	5.0
						47.4	419.5000	0.01	0.28	3.4	0.16	5.9
						46.6	432.9875	0.01	0.29	2.6	0.17	4.5
Roof	BS1	E	6	HAE6013A, 380-470MHz	48	47.6	380.0125	0.03	0.25	12.1	0.15	20.2
						47.6	393.0125	0.03	0.26	11.4	0.16	19.3
						47.1	406.5000	0.03	0.27	12.2	0.16	20.9
						47.3	422.0125	0.03	0.28	11.1	0.16	19.1
						46.7	438.0125	0.03	0.29	10.5	0.17	18.4
						46.8	450.0125	0.03	0.30	9.1	0.17	16.0
						47.4	469.9875	0.02	0.31	7.1	0.18	12.7

Table D.1 (Continued)**MPE assessment for APX6500 UHF R1 - roof mounted antenna – Bystander**

Note:

Blue fonts: Frequencies not regulated by FCC.

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS2	E	6	HAE6013A, 380-470MHz	48	47.6	380.0125	0.02	0.25	8.7	0.15	14.5
						47.6	393.0125	0.02	0.26	8.5	0.16	14.3
						47.1	406.5000	0.02	0.27	7.4	0.16	12.6
						47.3	422.0125	0.02	0.28	8.7	0.16	15.1
						46.7	438.0125	0.03	0.29	9.0	0.17	15.8
						46.8	450.0125	0.02	0.30	7.6	0.17	13.4
						47.4	469.9875	0.02	0.31	6.2	0.18	11.0
Roof	BS3	E	6	HAE6013A, 380-470MHz	48	47.6	380.0125	0.02	0.25	6.0	0.15	10.0
						47.6	393.0125	0.02	0.26	8.1	0.16	13.6
						47.1	406.5000	0.03	0.27	10.5	0.16	18.0
						47.3	422.0125	0.02	0.28	7.4	0.16	12.7
						46.7	438.0125	0.02	0.29	6.5	0.17	11.3
						46.8	450.0125	0.02	0.30	7.0	0.17	12.3
						47.4	469.9875	0.02	0.31	5.0	0.18	8.9
Roof	BS4	E	6	HAE6013A, 380-470MHz	48	47.6	380.0125	0.01	0.25	4.0	0.15	6.7
						47.6	393.0125	0.01	0.26	4.7	0.16	8.0
						47.1	406.5000	0.01	0.27	4.8	0.16	8.2
						47.3	422.0125	0.02	0.28	5.6	0.16	9.7
						46.7	438.0125	0.01	0.29	3.9	0.17	6.8
						46.8	450.0125	0.01	0.30	4.4	0.17	7.7
						47.4	469.9875	0.01	0.31	4.1	0.18	7.3
Roof	BS5	E	6	HAE6013A, 380-470MHz	48	47.6	380.0125	0.00	0.25	1.3	0.15	2.2
						47.6	393.0125	0.01	0.26	2.2	0.16	3.7
						47.1	406.5000	0.01	0.27	3.5	0.16	5.9
						47.3	422.0125	0.01	0.28	4.2	0.16	7.3
						46.7	438.0125	0.01	0.29	4.2	0.17	7.2
						46.8	450.0125	0.01	0.30	3.0	0.17	5.4
						47.4	469.9875	0.01	0.31	2.1	0.18	3.7

Table D.1 (Continued)

MPE assessment for APX6500 UHF R1 - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS1	E	7	HAE6015A, 450-520MHz	48	46.8	450.0125	0.03	0.30	9.6	0.17	17.0
						47	460.0000	0.03	0.31	9.8	0.17	17.4
						47.4	469.9875	0.03	0.31	8.9	0.18	16.0
Roof	BS2	E	7	HAE6015A, 450-520MHz	48	46.8	450.0125	0.03	0.30	8.7	0.17	15.4
						47	460.0000	0.03	0.31	8.8	0.17	15.7
						47.4	469.9875	0.02	0.31	7.2	0.18	12.9
Roof	BS3	E	7	HAE6015A, 450-520MHz	48	46.8	450.0125	0.02	0.30	6.0	0.17	10.5
						47	460.0000	0.02	0.31	6.3	0.17	11.2
						47.4	469.9875	0.02	0.31	5.9	0.18	10.5
Roof	BS4	E	7	HAE6015A, 450-520MHz	48	46.8	450.0125	0.01	0.30	4.2	0.17	7.4
						47	460.0000	0.01	0.31	3.8	0.17	6.7
						47.4	469.9875	0.01	0.31	4.4	0.18	7.9
Roof	BS5	E	7	HAE6015A, 450-520MHz	48	46.8	450.0125	0.01	0.30	3.3	0.17	5.8
						47	460.0000	0.01	0.31	2.5	0.17	4.4
						47.4	469.9875	0.01	0.31	2.2	0.18	3.9

Table D.1 (Continued)**MPE assessment for APX6500 UHF R1 - roof mounted antenna – Bystander**

Note:

Blue fonts: Frequencies not regulated by FCC.

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS1	E	8	HAE6016A, 450 - 512MHz	48	35.2	450.0125	0.02	0.3	7.3	0.17	12.9
						35.2	460.0000	0.02	0.31	6.7	0.17	11.8
						35.0	469.9875	0.02	0.31	6.7	0.18	12.0
Roof	BS2	E	8	HAE6016A, 450 - 512MHz	48	46.8	450.0125	0.02	0.3	6.6	0.17	11.7
						47.0	460.0000	0.02	0.31	7.2	0.17	12.8
						47.4	469.9875	0.02	0.31	6.1	0.18	11
Roof	BS3	E	8	HAE6016A, 450 - 512MHz	48	46.8	450.0125	0.01	0.3	4.2	0.17	7.3
						47.0	460.0000	0.01	0.31	4.3	0.17	7.6
						47.4	469.9875	0.01	0.31	4.2	0.18	7.5
Roof	BS4	E	8	HAE6016A, 450 - 512MHz	48	46.8	450.0125	0.01	0.3	3.2	0.17	5.7
						47.0	460.0000	0.01	0.31	2.8	0.17	5
						47.4	469.9875	0.01	0.31	3	0.18	5.3
Roof	BS5	E	8	HAE6016A, 450 - 512MHz	48	46.8	450.0125	0.01	0.3	2.2	0.17	3.9
						47.0	460.0000	0.01	0.31	1.8	0.17	3.3
						47.4	469.9875	0.01	0.31	1.7	0.18	3
Roof	BS1	E	9	HAE6031A, 380-520MHz	48	47.6	380.0125	0.04	0.25	13.9	0.15	23.2
						47.6	393.0125	0.03	0.26	11.7	0.16	19.7
						47.1	406.5000	0.03	0.27	11.2	0.16	19.1
						47.3	422.0125	0.03	0.28	10.7	0.16	18.5
						46.7	438.0125	0.03	0.29	10.1	0.17	17.6
						46.8	450.0125	0.03	0.3	10.6	0.17	18.7
						47.4	469.9875	0.03	0.31	9.1	0.18	16.3
Roof	BS2	E	9	HAE6031A, 380-520MHz	48	47.6	380.0125	0.03	0.25	10.5	0.15	17.5
						47.6	393.0125	0.02	0.26	8.4	0.16	14.1
						47.1	406.5000	0.02	0.27	7.5	0.16	12.8
						47.3	422.0125	0.02	0.28	8.5	0.16	14.7
						46.7	438.0125	0.03	0.29	9.5	0.17	16.6
						46.8	450.0125	0.03	0.3	8.5	0.17	15.1
						47.4	469.9875	0.03	0.31	8.4	0.18	14.9

Table D.1 (Continued)**MPE assessment for APX6500 UHF R1 - roof mounted antenna – Bystander**

Note:

Blue fonts: Frequencies not regulated by FCC.

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS3	E	9	HAE6031A, 380-520MHz	48	47.6	380.0125	0.02	0.25	6.8	0.15	11.4
						47.6	393.0125	0.02	0.26	7.8	0.16	13.2
						47.1	406.5000	0.03	0.27	10.3	0.16	17.5
						47.3	422.0125	0.02	0.28	7.2	0.16	12.5
						46.7	438.0125	0.02	0.29	6.3	0.17	10.9
						46.8	450.0125	0.02	0.3	6.9	0.17	12.1
						47.4	469.9875	0.02	0.31	5.7	0.18	10.2
Roof	BS4	E	9	HAE6031A, 380-520MHz	48	47.6	380.0125	0.01	0.25	4.7	0.15	7.8
						47.6	393.0125	0.01	0.26	4.7	0.16	8
						47.1	406.5000	0.01	0.27	4.6	0.16	7.8
						47.3	422.0125	0.02	0.28	5.4	0.16	9.4
						46.7	438.0125	0.01	0.29	3.9	0.17	6.9
						46.8	450.0125	0.01	0.3	4.6	0.17	8.1
						47.4	469.9875	0.02	0.31	4.8	0.18	8.6
Roof	BS5	E	9	HAE6031A, 380-520MHz	48	47.6	380.0125	0.00	0.25	1.4	0.15	2.3
						47.6	393.0125	0.01	0.26	2.3	0.16	3.9
						47.1	406.5000	0.01	0.27	3.4	0.16	5.8
						47.3	422.0125	0.01	0.28	3.9	0.16	6.7
						46.7	438.0125	0.01	0.29	3.8	0.17	6.6
						46.8	450.0125	0.01	0.3	3.5	0.17	6.1
						47.4	469.9875	0.01	0.31	2.4	0.18	4.2
Roof	BS1	E	10	RAE4014ARB, 445 - 470MHz	48	46.8	450.0125	0.02	0.3	7.2	0.17	12.7
						47.0	460.0000	0.02	0.31	7.9	0.17	14
						47.4	469.9875	0.02	0.31	6.6	0.18	11.8
Roof	BS2	E	10	RAE4014ARB, 445 - 470MHz	48	46.8	450.0125	0.02	0.3	5.6	0.17	9.8
						47.0	460.0000	0.03	0.31	8.6	0.17	15.2
						47.4	469.9875	0.02	0.31	6.3	0.18	11.3

Table D.1 (Continued)**MPE assessment for APX6500 UHF R1 - roof mounted antenna – Bystander**

Note:

Blue fonts: Frequencies not regulated by FCC.

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS3	E	10	RAE4014ARB, 445 - 470MHz	48	46.8	450.0125	0.01	0.3	3.3	0.17	5.8
						47.0	460.0000	0.01	0.31	4.3	0.17	7.6
						47.4	469.9875	0.01	0.31	4.2	0.18	7.5
Roof	BS4	E	10	RAE4014ARB, 445 - 470MHz	48	46.8	450.0125	0.01	0.3	2.7	0.17	4.7
						47.0	460.0000	0.01	0.31	4.2	0.17	7.4
						47.4	469.9875	0.02	0.31	5.1	0.18	9.2
Roof	BS5	E	10	RAE4014ARB, 445 - 470MHz	48	46.8	450.0125	0.01	0.3	3.3	0.17	5.7
						47.0	460.0000	0.01	0.31	2.8	0.17	5
						47.4	469.9875	0.01	0.31	3.8	0.18	6.8

Table D.2**MPE assessment for APX6500 UHF R1 - roof mounted antenna – Passenger Back**

Note:

Blue fonts: Frequencies not regulated by FCC.

Trunk/ Roof	Test Position	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/ cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	PB	E	1	HAE4003A, 1/4 Wave, (450-470MHz)	48	46.8	450.0125	0.05	0.30	15.6	0.17	27.4
						47	460.0000	0.03	0.31	10.2	0.17	18.1
						47.4	469.9875	0.03	0.31	9.9	0.18	17.7
			2	HAE4011A, 5/8 Wave, (450-470MHz)	48	46.8	450.0125	0.01	0.30	3.4	0.17	5.9
						47	460.0000	0.01	0.31	2.4	0.17	4.2
						47.4	469.9875	0.01	0.31	2.4	0.18	4.2
			3	HAE6010A, 5/8 Wave, (380-433MH z)	48	47.6	380.0125	0.05	0.25	20.2	0.15	33.7
						47.6	393.0125	0.05	0.26	17.9	0.16	30.3
						47.1	406.5000	0.04	0.27	15.3	0.16	26.1
						47.4	419.5000	0.04	0.28	12.8	0.16	22.0
						46.6	432.9875	0.03	0.29	10.2	0.17	17.8
			4	HAE6011A, 5/8 Wave, (380-433MH z)	48	47.6	380.0125	0.01	0.25	3.3	0.15	5.4
						47.6	393.0125	0.00	0.26	1.7	0.16	2.9
						47.1	406.5000	0.01	0.27	3.6	0.16	6.2
						47.4	419.5000	0.01	0.28	2.6	0.16	4.6
						46.6	432.9875	0.00	0.29	1.1	0.17	1.8
			5	HAE6012A, 1/4 Wave, (380-433MH z)	48	47.6	380.0125	0.08	0.25	32.3	0.15	54.0
						47.6	393.0125	0.04	0.26	13.5	0.16	22.8
						47.1	406.5000	0.04	0.27	15.3	0.16	26.1
						47.4	419.5000	0.03	0.28	10.5	0.16	18.0
						46.6	432.9875	0.02	0.29	8.4	0.17	14.5
			6	HAE6013A, 1/2 Wave, (380-470MH z)	48	47.6	380.0125	0.08	0.25	30.7	0.15	51.2
						47.6	393.0125	0.03	0.26	10.8	0.16	18.1
						47.1	406.5000	0.05	0.27	16.9	0.16	28.8
						47.3	422.0125	0.02	0.28	8.8	0.16	15.3
						46.7	438.0125	0.04	0.29	12.2	0.17	21.4
						46.8	450.0125	0.05	0.30	17.1	0.17	30.2
						47.4	469.9875	0.04	0.31	11.4	0.18	20.3
			7	HAE6015A, 1/2 Wave, (450-520MH z)	48	46.8	450.0125	0.05	0.30	16.6	0.17	29.3
						47	460.0000	0.04	0.31	13.3	0.17	23.5
						47.4	469.9875	0.03	0.31	10.0	0.18	17.9
			8	HAE6016A, 1/4 Wave, (450-512MH z)	48	46.8	450.0125	0.03	0.30	11.5	0.17	20.2
						47	460.0000	0.032	0.31	10.6	0.17	18.8
						47.4	469.9875	0.03	0.31	8.0	0.18	14.3

Table D.2 (Continued)**MPE assessment for APX6500 UHF R1 - roof mounted antenna – Passenger Back**

Note:

Blue fonts: Frequencies not regulated by FCC.

Trunk/ Roof	Test Position	E/H Field	Antenna No.	Antenna Model	Ma x Pw r (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/ cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	PB	E	9	HAE6031A, 1/2 Wave, (380-520MHz)	48	47.6	380.0125	0.05	0.25	21.3	0.15	35.6
						47.6	393.0125	0.03	0.26	11.8	0.16	19.9
						47.1	406.5000	0.04	0.27	13.9	0.16	23.7
						47.3	422.0125	0.03	0.28	10.8	0.16	18.6
						46.7	438.0125	0.03	0.29	10.6	0.17	18.5
						46.8	450.0125	0.04	0.30	14.1	0.17	24.9
						47.4	469.9875	0.03	0.31	9.7	0.18	17.4
			10	RAE4014ARB, 5/8 Wave, (445-470MHz)	48	46.8	450.0125	0.01	0.30	2.1	0.17	3.7
						47	460.0000	0.01	0.31	1.8	0.17	3.3
						47.4	469.9875	0.01	0.31	2.2	0.18	3.9

Table D.2 (Continued)**MPE assessment for APX6500 UHF R1 - roof mounted antenna – Passenger Front**

Note:

Blue fonts: Frequencies not regulated by FCC.

Trunk/ Roof	Test Position	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/ cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	PF	E	1	HAE4003A, 1/4 Wave, (450-470MHz)	48	46.8	450.0125	0.02	0.30	6.2	0.17	10.9
						47	460.0000	0.02	0.31	6.1	0.17	10.8
						47.4	469.9875	0.03	0.31	8.3	0.18	14.9
			2	HAE4011A, 5/8 Wave, (450-470MHz)	48	46.8	450.0125	0.01	0.30	2.1	0.17	3.6
						47	460.0000	0.01	0.31	1.7	0.17	3.1
						47.4	469.9875	0.01	0.31	1.7	0.18	3.1
			3	HAE6010A, 5/8 Wave, (380-433MH z)	48	47.6	380.0125	0.03	0.25	11.5	0.15	19.2
						47.6	393.0125	0.03	0.26	13.0	0.16	21.9
						47.1	406.5000	0.06	0.27	21.2	0.16	36.2
						47.4	419.5000	0.04	0.28	13.4	0.16	23.0
						46.6	432.9875	0.02	0.29	6.6	0.17	11.4
			4	HAE6011A, 5/8 Wave, (380-433MH z)	48	47.6	380.0125	0.00	0.25	1.2	0.15	1.9
						47.6	393.0125	0.01	0.26	2.3	0.16	3.8
						47.1	406.5000	0.01	0.27	3.5	0.16	6.1
						47.4	419.5000	0.00	0.28	1.2	0.16	2.1
						46.6	432.9875	0.00	0.29	0.6	0.17	1.1
			5	HAE6012A, 1/4 Wave, (380-433MH z)	48	47.6	380.0125	0.03	0.25	10.0	0.15	16.7
						47.6	393.0125	0.03	0.26	12.6	0.16	21.3
						47.1	406.5000	0.05	0.27	16.8	0.16	28.7
						47.4	419.5000	0.03	0.28	10.0	0.16	17.2
						46.6	432.9875	0.02	0.29	5.6	0.17	9.7
			6	HAE6013A, 1/2 Wave, (380-470MH z)	48	47.6	380.0125	0.02	0.25	9.5	0.15	15.8
						47.6	393.0125	0.03	0.26	9.9	0.16	16.7
						47.1	406.5000	0.05	0.27	17.3	0.16	29.5
						47.3	422.0125	0.03	0.28	9.5	0.16	16.4
						46.7	438.0125	0.02	0.29	5.6	0.17	9.7
						46.8	450.0125	0.02	0.30	7.3	0.17	12.8
						47.4	469.9875	0.03	0.31	8.0	0.18	14.3
			7	HAE6015A, 1/2 Wave, (450-520MH z)	48	46.8	450.0125	0.02	0.30	6.2	0.17	10.8
						47	460.0000	0.02	0.31	7.5	0.17	13.3
						47.4	469.9875	0.03	0.31	8.1	0.18	14.5
			8	HAE6016A, 1/4 Wave, (450-512MH z)	48	46.8	450.0125	0.30	5.5	0.23	9.7	0.02
						47	460.0000	0.31	6.1	0.23	10.9	0.02
						47.4	469.9875	0.31	6.3	0.23	11.2	0.02

Table D.2 (Continued)**MPE assessment for APX6500 UHF R1 - roof mounted antenna – Passenger Front**

Note:

Blue fonts: Frequencies not regulated by FCC.

Trunk/ Roof	Test Position	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/ cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	PF	E	9	HAE6031A, 1/2 Wave, (380-520MHz)	48	47.6	380.0125	0.03	0.25	11.4	0.15	19.0
						47.6	393.0125	0.03	0.26	13.2	0.16	22.2
						47.1	406.5000	0.05	0.27	17.3	0.16	29.4
						47.3	422.0125	0.03	0.28	10.8	0.16	18.6
						46.7	438.0125	0.02	0.29	5.4	0.17	9.4
						46.8	450.0125	0.03	0.30	8.8	0.17	15.5
						47.4	469.9875	0.03	0.31	9.3	0.18	16.6
			10	RAE4014ARB 5/8 Wave, (445-470MHz)	48	46.8	450.0125	0.00	0.30	0.6	0.17	1.0
						47	460.0000	0.00	0.31	1.0	0.17	1.7
						47.4	469.9875	0.01	0.31	2.0	0.18	3.7

Table D.3
APX6500 UHF R1 MPE Results for FCC

Note:

Blue fonts: Frequencies not regulated by FCC.

Pmax (W) 48

Pinitial (W)

FCCLimit (mW/cm²)

47.6	47.6	47.1	47.4	47.3	46.6	46.7	46.8	47	47.4
0.25	0.26	0.27	0.28	0.28	0.29	0.29	0.30	0.31	0.31

Table	Test Post.	Trunk / Roof	E/H Field	Antenna No.	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10
					380.0125	393.0125	406.5000	419.5000	422.0125	432.9875	438.0125	450.0125	460.0000	469.9875
D.1	BS1	Roof	E	1								0.03	0.03	0.03
D.1	BS2	Roof	E	1								0.02	0.02	0.02
D.1	BS3	Roof	E	1								0.02	0.02	0.01
D.1	BS4	Roof	E	1								0.01	0.01	0.01
D.1	BS5	Roof	E	1								0.01	0.01	0.01
D.1	BS1	Roof	E	2								0.02	0.02	0.02
D.1	BS2	Roof	E	2								0.02	0.02	0.02
D.1	BS3	Roof	E	2								0.01	0.01	0.01
D.1	BS4	Roof	E	2								0.01	0.01	0.01
D.1	BS5	Roof	E	2								0.01	0.01	0.01
D.1	BS1	Roof	E	3	0.01	0.01	0.01	0.01		0.02				
D.1	BS2	Roof	E	3	0.01	0.01	0.01	0.01		0.01				
D.1	BS3	Roof	E	3	0.01	0.01	0.01	0.01		0.01				
D.1	BS4	Roof	E	3	0.00	0.01	0.01	0.01		0.01				
D.1	BS5	Roof	E	3	0.00	0.00	0.00	0.00		0.00				
D.1	BS1	Roof	E	4	0.03	0.03	0.03	0.02		0.01				
D.1	BS2	Roof	E	4	0.02	0.02	0.02	0.02		0.01				
D.1	BS3	Roof	E	4	0.02	0.02	0.03	0.01		0.01				
D.1	BS4	Roof	E	4	0.01	0.02	0.01	0.01		0.01				
D.1	BS5	Roof	E	4	0.01	0.01	0.01	0.01		0.01				
D.1	BS1	Roof	E	5	0.04	0.03	0.03	0.03		0.02				
D.1	BS2	Roof	E	5	0.03	0.02	0.02	0.02		0.02				
D.1	BS3	Roof	E	5	0.02	0.02	0.02	0.02		0.02				
D.1	BS4	Roof	E	5	0.01	0.01	0.01	0.01		0.01				
D.1	BS5	Roof	E	5	0.01	0.01	0.01	0.01		0.01				
D.1	BS1	Roof	E	6	0.03	0.03	0.03		0.03		0.03	0.03		0.02
D.1	BS2	Roof	E	6	0.02	0.02	0.02		0.02		0.03	0.02		0.02
D.1	BS3	Roof	E	6	0.02	0.02	0.03		0.02		0.02	0.02		0.02
D.1	BS4	Roof	E	6	0.01	0.01	0.01		0.02		0.01	0.01		0.01
D.1	BS5	Roof	E	6	0.00	0.01	0.01		0.01		0.01	0.01		0.01
D.1	BS1	Roof	E	7								0.03	0.03	0.03
D.1	BS2	Roof	E	7								0.03	0.03	0.02
D.1	BS3	Roof	E	7								0.02	0.02	0.02
D.1	BS4	Roof	E	7								0.01	0.01	0.01
D.1	BS5	Roof	E	7								0.01	0.01	0.01

Table D.3 (Continued)
APX6500 UHF R1 MPE Results for FCC

Note:

Blue fonts: Frequencies not regulated by FCC.

P_{max} (W) 48P_{initial} (W)FCC Limit (mW/cm²)

47.6	47.6	47.1	47.4	47.3	46.6	46.7	46.8	47	47.4
0.25	0.26	0.27	0.28	0.28	0.29	0.29	0.30	0.31	0.31

Table	Test Post.	Trunk / Roof	E/H Field	Antenna No.	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10
					380.0125	393.0125	406.5000	419.5000	422.0125	432.9875	438.0125	450.0125	460.0000	469.9875
D.1	BS1	Roof	E	8								0.02	0.02	0.02
D.1	BS2	Roof	E	8								0.02	0.02	0.02
D.1	BS3	Roof	E	8								0.01	0.01	0.01
D.1	BS4	Roof	E	8								0.01	0.01	0.01
D.1	BS5	Roof	E	8								0.01	0.01	0.01
D.1	BS1	Roof	E	9	0.04	0.03	0.03		0.03		0.03	0.03		0.03
D.1	BS2	Roof	E	9	0.03	0.02	0.02		0.02		0.03	0.03		0.03
D.1	BS3	Roof	E	9	0.02	0.02	0.03		0.02		0.02	0.02		0.02
D.1	BS4	Roof	E	9	0.01	0.01	0.01		0.02		0.01	0.01		0.02
D.1	BS5	Roof	E	9	0	0.01	0.01		0.01		0.01	0.01		0.01
D.1	BS1	Roof	E	10								0.02	0.02	0.02
D.1	BS2	Roof	E	10								0.02	0.03	0.02
D.1	BS3	Roof	E	10								0.01	0.01	0.01
D.1	BS4	Roof	E	10								0.01	0.01	0.02
D.1	BS5	Roof	E	10								0.01	0.01	0.01
D.2	PB	Roof	E	1								0.05	0.03	0.03
D.2	PB	Roof	E	2								0.01	0.01	0.01
D.2	PB	Roof	E	3	0.05	0.05	0.04	0.04		0.03				
D.2	PB	Roof	E	4	0.01	0.00	0.01	0.01		0.00				
D.2	PB	Roof	E	5	0.08	0.04	0.04	0.03		0.02				
D.2	PB	Roof	E	6	0.08	0.03	0.05		0.02		0.04	0.05		0.04
D.2	PB	Roof	E	7								0.05	0.04	0.03
D.2	PB	Roof	E	8								0.03	0.03	0.03
D.2	PB	Roof	E	9	0.05	0.03	0.04		0.03		0.03	0.04		0.03
D.2	PB	Roof	E	10								0.01	0.01	0.01
D.2	PF	Roof	E	1								0.02	0.02	0.03
D.2	PF	Roof	E	2								0.01	0.01	0.01
D.2	PF	Roof	E	3	0.03	0.03	0.06	0.04		0.02				
D.2	PF	Roof	E	4	0.00	0.01	0.01	0.00		0.00				
D.2	PF	Roof	E	5	0.03	0.03	0.05	0.03		0.02				
D.2	PF	Roof	E	6	0.02	0.03	0.05		0.03		0.02	0.02		0.03
D.2	PF	Roof	E	7								0.02	0.02	0.03
D.2	PF	Roof	E	8								0.02	0.02	0.02
D.2	PF	Roof	E	9	0.03	0.03	0.05		0.03		0.02	0.03		0.03
D.2	PF	Roof	E	10								0.00	0.00	0.01

Appendix E – MPE Test Results Summary for Companion Device (DVR 700)

Table E.1**MPE assessment for Companion Device (DVR 700) - trunk mounted antenna - Bystander**

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Trunk	BS1	E	15	HAF4016A, 1/4 Wave (764-870MHz)	5.0	4.82	770.0000	0.004	0.51	0.8	0.25	1.6
						4.79	775.0000	0.003	0.52	0.6	0.25	1.3
						4.86	800.0000	0.002	0.53	0.4	0.25	0.8
						4.88	806.0000	0.002	0.54	0.4	0.25	0.7
Trunk	BS2	E	15	HAF4016A, 1/4 Wave (764-870MHz)	5.0	4.82	770.0000	0.011	0.51	2.1	0.25	4.5
						4.79	775.0000	0.011	0.52	2.0	0.25	4.3
						4.86	800.0000	0.008	0.53	1.5	0.25	3.1
						4.88	806.0000	0.008	0.54	1.4	0.25	3.0
Trunk	BS3	E	15	HAF4016A, 1/4 Wave (764-870MHz)	5.0	4.82	770.0000	0.015	0.51	2.9	0.25	6.0
						4.79	775.0000	0.018	0.52	3.6	0.25	7.5
						4.86	800.0000	0.008	0.53	1.4	0.25	3.0
						4.88	806.0000	0.007	0.54	1.3	0.25	2.7
Trunk	BS4	E	15	HAF4016A, 1/4 Wave (764-870MHz)	5.0	4.82	770.0000	0.017	0.51	3.3	0.25	6.9
						4.79	775.0000	0.017	0.52	3.2	0.25	6.8
						4.86	800.0000	0.011	0.53	2.1	0.25	4.4
						4.88	806.0000	0.009	0.54	1.7	0.25	3.7
Trunk	BS5	E	15	HAF4016A, 1/4 Wave (764-870MHz)	5.0	4.82	770.0000	0.020	0.51	3.9	0.25	8.1
						4.79	775.0000	0.020	0.52	3.9	0.25	8.1
						4.86	800.0000	0.008	0.53	1.5	0.25	3.1
						4.88	806.0000	0.007	0.54	1.3	0.25	2.9

Note:

Results in bold font are configurations with highest percentage of limits.

Table E.2

MPE assessment for Companion Device (DVR 700) – trunk mounted antenna - Passenger

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm ²)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Trunk	PB	E	15	HAF4016A, 1/4 Wave (764-870MHz)	5.0	4.82	770.0000	0.035	0.51	6.8	0.25	14.2
						4.79	775.0000	0.038	0.52	7.3	0.25	15.4
						4.86	800.0000	0.022	0.53	4.1	0.25	8.7
						4.88	806.0000	0.021	0.54	3.8	0.25	8.1
Trunk	PF	E	15	HAF4016A, 1/4 Wave (764-870MHz)	5.0	4.82	770.0000	0.022	0.51	4.3	0.25	9.0
						4.79	775.0000	0.031	0.52	6.1	0.25	12.7
						4.86	800.0000	0.013	0.53	2.4	0.25	5.1
						4.88	806.0000	0.011	0.54	2.1	0.25	4.4

Note:

Results in bold font are configurations with highest percentage of limits.

Table E.3
Companion Device (DVR 700) MPE Results for FCC

Pmax (W)	5	Pinitial (W)	4.82	4.79	4.86	4.88
FCCLimit (mW/cm ²)			0.51	0.52	0.53	0.54

Table	Test Post.	Angle	Trunk / Roof	E/H Field	Antenna No.	f1	f2	f3	f4
						770.0000	775.0000	800.0000	806.0000
E.1	BS1		Trunk	E	15	0.004	0.003	0.002	0.002
E.1	BS2		Trunk	E	15	0.011	0.011	0.008	0.008
E.1	BS3		Trunk	E	15	0.015	0.018	0.008	0.007
E.1	BS4		Trunk	E	15	0.017	0.017	0.011	0.009
E.1	BS5		Trunk	E	15	0.020	0.020	0.008	0.007
E.2	PB		Trunk	E	15	0.035	0.038	0.022	0.021
E.2	PF		Trunk	E	15	0.022	0.031	0.013	0.011

Appendix F – MPE Test Results Summary for APX6500 UHF R1

Table F.1

APX6500 UHF R1 - MPE measurement data for Bystander

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									DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)	
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm					200 cm
Roof	HAE4003A, 450-470MHz	2.15	450.0125	48.0	46.8	CW	E	1.00	BS1	0.007	0.005	0.013	0.014	0.032	0.054	0.094	0.115	0.138	0.164	0.5	0.064	0.032	0.03
Roof	HAE4003A, 450-470MHz	2.15	460.0000	48.0	47.0	CW	E	0.98	BS1	0.006	0.005	0.018	0.022	0.035	0.057	0.07	0.093	0.108	0.164	0.5	0.057	0.028	0.03
Roof	HAE4003A, 450-470MHz	2.15	469.9875	48.0	47.4	CW	E	0.95	BS1	0.01	0.014	0.016	0.019	0.028	0.055	0.078	0.115	0.136	0.138	0.5	0.058	0.029	0.03
Roof	HAE4003A, 450-470MHz	2.15	450.0125	48.0	46.8	CW	E	1.00	BS2	0.012	0.014	0.015	0.016	0.023	0.038	0.05	0.074	0.106	0.105	0.5	0.045	0.023	0.02
Roof	HAE4003A, 450-470MHz	2.15	460.0000	48.0	47.0	CW	E	0.98	BS2	0.011	0.014	0.015	0.016	0.022	0.033	0.061	0.086	0.118	0.11	0.5	0.048	0.024	0.02
Roof	HAE4003A, 450-470MHz	2.15	469.9875	48.0	47.4	CW	E	0.95	BS2	0.007	0.007	0.008	0.011	0.018	0.04	0.053	0.08	0.1	0.101	0.5	0.040	0.020	0.02
Roof	HAE4003A, 450-470MHz	2.15	450.0125	48.0	46.8	CW	E	1.00	BS3	0.008	0.013	0.018	0.022	0.024	0.03	0.045	0.06	0.063	0.068	0.5	0.035	0.018	0.02
Roof	HAE4003A, 450-470MHz	2.15	460.0000	48.0	47.0	CW	E	0.98	BS3	0.007	0.017	0.018	0.024	0.028	0.038	0.04	0.047	0.056	0.073	0.5	0.034	0.017	0.02
Roof	HAE4003A, 450-470MHz	2.15	469.9875	48.0	47.4	CW	E	0.95	BS3	0.008	0.013	0.016	0.018	0.028	0.034	0.038	0.042	0.044	0.068	0.5	0.029	0.015	0.01
Roof	HAE4003A, 450-470MHz	2.15	450.0125	48.0	46.8	CW	E	1.00	BS4	0.011	0.013	0.01	0.02	0.024	0.03	0.031	0.032	0.035	0.04	0.5	0.025	0.012	0.01
Roof	HAE4003A, 450-470MHz	2.15	460.0000	48.0	47.0	CW	E	0.98	BS4	0.004	0.008	0.01	0.011	0.013	0.02	0.024	0.026	0.028	0.03	0.5	0.017	0.009	0.01
Roof	HAE4003A, 450-470MHz	2.15	469.9875	48.0	47.4	CW	E	0.95	BS4	0.006	0.011	0.015	0.017	0.028	0.032	0.036	0.035	0.033	0.043	0.5	0.024	0.012	0.01
Roof	HAE4003A, 450-470MHz	2.15	450.0125	48.0	46.8	CW	E	1.00	BS5	0.001	0.001	0.001	0.005	0.006	0.008	0.021	0.022	0.024	0.025	0.5	0.011	0.006	0.01
Roof	HAE4003A, 450-470MHz	2.15	460.0000	48.0	47.0	CW	E	0.98	BS5	0.001	0.002	0.003	0.005	0.006	0.016	0.024	0.023	0.02	0.024	0.5	0.012	0.006	0.01
Roof	HAE4003A, 450-470MHz	2.15	469.9875	48.0	47.4	CW	E	0.95	BS5	0.001	0.001	0.002	0.005	0.006	0.007	0.02	0.022	0.03	0.027	0.5	0.011	0.006	0.01

Notes:

MPE calculations are defined in section 15.0

Table F.1 (Continued)

APX6500 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
Roof	HAE4011A, 450-470MHz	5.65	450.0125	48.0	46.8	CW	E	1.00	BS1	0.00	0.00	0.00	0.00	0.02	0.04	0.062	0.096	0.11	0.104	0.5	0.043	0.022	0.02
Roof	HAE4011A, 450-470MHz	5.65	460.0000	48.0	47.0	CW	E	0.98	BS1	0.00	0.00	0.00	0.01	0.018	0.035	0.064	0.106	0.126	0.128	0.5	0.048	0.024	0.02
Roof	HAE4011A, 450-470MHz	5.65	469.9875	48.0	47.4	CW	E	0.95	BS1	0.00	0.00	0.00	0.003	0.004	0.016	0.043	0.077	0.109	0.115	0.5	0.035	0.018	0.02
Roof	HAE4011A, 450-470MHz	5.65	450.0125	48.0	46.8	CW	E	1.00	BS2	0.00	0.00	0.01	0.01	0.02	0.022	0.046	0.07	0.08	0.09	0.5	0.035	0.018	0.02
Roof	HAE4011A, 450-470MHz	5.65	460.0000	48.0	47.0	CW	E	0.98	BS2	0.00	0.00	0.01	0.01	0.01	0.032	0.068	0.1	0.117	0.118	0.5	0.045	0.023	0.02
Roof	HAE4011A, 450-470MHz	5.65	469.9875	48.0	47.4	CW	E	0.95	BS2	0.00	0.00	0.00	0.004	0.008	0.02	0.04	0.064	0.087	0.09	0.5	0.030	0.015	0.02
Roof	HAE4011A, 450-470MHz	5.65	450.0125	48.0	46.8	CW	E	1.00	BS3	0.00	0.00	0.00	0.01	0.02	0.027	0.05	0.053	0.05	0.048	0.5	0.027	0.014	0.01
Roof	HAE4011A, 450-470MHz	5.65	460.0000	48.0	47.0	CW	E	0.98	BS3	0.00	0.00	0.01	0.01	0.017	0.028	0.043	0.05	0.055	0.057	0.5	0.027	0.013	0.01
Roof	HAE4011A, 450-470MHz	5.65	469.9875	48.0	47.4	CW	E	0.95	BS3	0.00	0.00	0.00	0.008	0.016	0.027	0.028	0.037	0.046	0.052	0.5	0.021	0.011	0.01
Roof	HAE4011A, 450-470MHz	5.65	450.0125	48.0	46.8	CW	E	1.00	BS4	0.00	0.01	0.01	0.01	0.02	0.02	0.023	0.032	0.04	0.04	0.5	0.019	0.009	0.01
Roof	HAE4011A, 450-470MHz	5.65	460.0000	48.0	47.0	CW	E	0.98	BS4	0.01	0.01	0.01	0.01	0.01	0.02	0.024	0.03	0.041	0.045	0.5	0.019	0.010	0.01
Roof	HAE4011A, 450-470MHz	5.65	469.9875	48.0	47.4	CW	E	0.95	BS4	0.00	0.00	0.01	0.01	0.023	0.038	0.04	0.042	0.045	0.056	0.5	0.025	0.013	0.01
Roof	HAE4011A, 450-470MHz	5.65	450.0125	48.0	46.8	CW	E	1.00	BS5	0.00	0.00	0.01	0.01	0.02	0.033	0.03	0.032	0.04	0.056	0.5	0.024	0.012	0.01
Roof	HAE4011A, 450-470MHz	5.65	460.0000	48.0	47.0	CW	E	0.98	BS5	0.00	0.00	0.00	0.01	0.01	0.021	0.026	0.028	0.035	0.043	0.5	0.017	0.009	0.01
Roof	HAE4011A, 450-470MHz	5.65	469.9875	48.0	47.4	CW	E	0.95	BS5	0.00	0.00	0.00	0.002	0.003	0.01	0.025	0.03	0.035	0.043	0.5	0.014	0.007	0.01

Notes:

MPE calculations are defined in section 15.0

Table F.1 (Continued)

APX6500 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/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	HAE6010A,380-433MHz	5.65	380.0125	48.0	47.6	CW	E	1.09	BS1	0.0210	0.0230	0.0220	0.0240	0.0250	0.0270	0.0280	0.0250	0.0200	0.0210	0.5	0.026	0.01	0.01
Roof	HAE6010A,380-433MHz	5.65	393.0125	48.0	47.6	CW	E	1.11	BS1	0.0180	0.0170	0.0210	0.0270	0.0300	0.0350	0.0310	0.0350	0.0210	0.0180	0.5	0.028	0.01	0.01
Roof	HAE6010A,380-433MHz	5.65	406.5000	48.0	47.1	CW	E	1.11	BS1	0.0190	0.0130	0.0160	0.0210	0.0250	0.0300	0.0330	0.0380	0.0240	0.0150	0.5	0.026	0.01	0.01
Roof	HAE6010A,380-433MHz	5.65	419.5000	48.0	47.4	CW	E	1.07	BS1	0.0170	0.0140	0.0260	0.0280	0.0340	0.0380	0.0420	0.0340	0.0220	0.0100	0.5	0.028	0.01	0.01
Roof	HAE6010A,380-433MHz	5.65	432.9875	48.0	46.6	CW	E	1.04	BS1	0.0200	0.0260	0.0310	0.0300	0.0320	0.0380	0.0430	0.0350	0.0210	0.0130	0.5	0.030	0.02	0.02
Roof	HAE6010A,380-433MHz	5.65	380.0125	48.0	47.6	CW	E	1.09	BS2	0.0130	0.0180	0.0180	0.0170	0.0180	0.0230	0.0200	0.0150	0.0160	0.0200	0.5	0.019	0.01	0.01
Roof	HAE6010A,380-433MHz	5.65	393.0125	48.0	47.6	CW	E	1.11	BS2	0.0200	0.0280	0.0270	0.0260	0.0250	0.0250	0.0210	0.0160	0.0140	0.0120	0.5	0.024	0.01	0.01
Roof	HAE6010A,380-433MHz	5.65	406.5000	48.0	47.1	CW	E	1.11	BS2	0.0220	0.0240	0.0250	0.0250	0.0270	0.0300	0.0250	0.0240	0.0150	0.0100	0.5	0.025	0.01	0.01
Roof	HAE6010A,380-433MHz	5.65	419.5000	48.0	47.4	CW	E	1.07	BS2	0.0160	0.0170	0.0170	0.0180	0.0220	0.0310	0.0400	0.0420	0.0210	0.0130	0.5	0.025	0.01	0.01
Roof	HAE6010A,380-433MHz	5.65	432.9875	48.0	46.6	CW	E	1.04	BS2	0.0160	0.0170	0.0210	0.0180	0.0200	0.0240	0.0370	0.0420	0.0230	0.0160	0.5	0.024	0.01	0.01
Roof	HAE6010A,380-433MHz	5.65	380.0125	48.0	47.6	CW	E	1.09	BS3	0.0170	0.0180	0.0150	0.0200	0.0160	0.0060	0.0050	0.0040	0.0030	0.0050	0.5	0.012	0.01	0.01
Roof	HAE6010A,380-433MHz	5.65	393.0125	48.0	47.6	CW	E	1.11	BS3	0.0150	0.0160	0.0200	0.0280	0.0230	0.0220	0.0100	0.0060	0.0040	0.0030	0.5	0.016	0.01	0.01
Roof	HAE6010A,380-433MHz	5.65	406.5000	48.0	47.1	CW	E	1.11	BS3	0.0160	0.0200	0.0200	0.0220	0.0160	0.0180	0.0140	0.0080	0.0070	0.0060	0.5	0.016	0.01	0.01
Roof	HAE6010A,380-433MHz	5.65	419.5000	48.0	47.4	CW	E	1.07	BS3	0.0200	0.0220	0.0230	0.0260	0.0170	0.0130	0.0150	0.0170	0.0180	0.0110	0.5	0.019	0.01	0.01
Roof	HAE6010A,380-433MHz	5.65	432.9875	48.0	46.6	CW	E	1.04	BS3	0.0220	0.0260	0.0280	0.0300	0.0220	0.0200	0.0200	0.0180	0.0140	0.0070	0.5	0.022	0.01	0.01

Notes:

MPE calculations are defined in section 15.0

Blue fonts: Frequencies not regulated by FCC.

Table F.1 (Continued)

APX6500 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	HAE6010A,380-433MHz	5.65	380.0125	48.0	47.6	CW	E	1.09	BS4	0.003	0.004	0.003	0.003	0.008	0.012	0.008	0.011	0.004	0.002	0.5	0.006	0.003	0.00	
Roof	HAE6010A,380-433MHz	5.65	393.0125	48.0	47.6	CW	E	1.11	BS4	0.005	0.006	0.004	0.01	0.01	0.016	0.016	0.013	0.007	0.004	0.5	0.010	0.005	0.01	
Roof	HAE6010A,380-433MHz	5.65	406.5000	48.0	47.1	CW	E	1.11	BS4	0.018	0.02	0.016	0.022	0.025	0.022	0.011	0.006	0.005	0.004	0.5	0.017	0.008	0.01	
Roof	HAE6010A,380-433MHz	5.65	419.5000	48.0	47.4	CW	E	1.07	BS4	0.015	0.018	0.016	0.02	0.024	0.026	0.01	0.003	0.003	0.00	0.5	0.015	0.007	0.01	
Roof	HAE6010A,380-433MHz	5.65	432.9875	48.0	46.6	CW	E	1.04	BS4	0.01	0.008	0.007	0.015	0.023	0.022	0.01	0.004	0.004	0.00	0.5	0.011	0.005	0.01	
Roof	HAE6010A,380-433MHz	5.65	380.0125	48.0	47.6	CW	E	1.09	BS5	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.5	0.001	0.001	0.00	
Roof	HAE6010A,380-433MHz	5.65	393.0125	48.0	47.6	CW	E	1.11	BS5	0.001	0.001	0.001	0.002	0.003	0.005	0.002	0.002	0.002	0.003	0.5	0.002	0.001	0.00	
Roof	HAE6010A,380-433MHz	5.65	406.5000	48.0	47.1	CW	E	1.11	BS5	0.001	0.001	0.003	0.004	0.005	0.008	0.005	0.003	0.002	0.002	0.5	0.004	0.002	0.00	
Roof	HAE6010A,380-433MHz	5.65	419.5000	48.0	47.4	CW	E	1.07	BS5	0.001	0.002	0.003	0.005	0.013	0.017	0.02	0.015	0.005	0.00	0.5	0.009	0.004	0.00	
Roof	HAE6010A,380-433MHz	5.65	432.9875	48.0	46.6	CW	E	1.04	BS5	0.001	0.002	0.004	0.008	0.012	0.014	0.01	0.005	0.004	0.00	0.5	0.007	0.003	0.00	
Roof	HAE6011A,380-433MHz	7.15	380.0125	48.0	47.6	CW	E	1.09	BS1	0.001	0.001	0.001	0.002	0.006	0.03	0.067	0.113	0.15	0.154	0.5	0.057	0.029	0.03	
Roof	HAE6011A,380-433MHz	7.15	393.0125	48.0	47.6	CW	E	1.11	BS1	0.001	0.001	0.001	0.001	0.005	0.018	0.057	0.105	0.147	0.167	0.5	0.056	0.028	0.03	
Roof	HAE6011A,380-433MHz	7.15	406.5000	48.0	47.1	CW	E	1.11	BS1	0.001	0.001	0.001	0.003	0.005	0.019	0.045	0.076	0.141	0.16	0.5	0.050	0.025	0.03	
Roof	HAE6011A,380-433MHz	7.15	419.5000	48.0	47.4	CW	E	1.07	BS1	0.001	0.001	0.002	0.003	0.004	0.005	0.03	0.063	0.094	0.104	0.5	0.033	0.016	0.02	
Roof	HAE6011A,380-433MHz	7.15	432.9875	48.0	46.6	CW	E	1.04	BS1	0.001	0.001	0.001	0.001	0.002	0.005	0.02	0.046	0.086	0.10	0.5	0.027	0.014	0.01	

Notes:

MPE calculations are defined in section 15.0

Blue fonts: Frequencies not regulated by FCC.

Table F.1 (Continued)
APX6500 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/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	HAE6011A,380-433MHz	7.15	380.0125	48.0	47.6	CW	E	1.09	BS2	0.001	0.002	0.003	0.005	0.008	0.024	0.046	0.082	0.103	0.113	0.5	0.042	0.021	0.02
Roof	HAE6011A,380-433MHz	7.15	393.0125	48.0	47.6	CW	E	1.11	BS2	0.001	0.003	0.004	0.006	0.008	0.018	0.042	0.07	0.106	0.121	0.5	0.042	0.021	0.02
Roof	HAE6011A,380-433MHz	7.15	406.5000	48.0	47.1	CW	E	1.11	BS2	0.002	0.005	0.004	0.003	0.004	0.015	0.026	0.05	0.082	0.101	0.5	0.032	0.016	0.02
Roof	HAE6011A,380-433MHz	7.15	419.5000	48.0	47.4	CW	E	1.07	BS2	0.001	0.001	0.001	0.002	0.003	0.018	0.04	0.067	0.09	0.105	0.5	0.035	0.018	0.02
Roof	HAE6011A,380-433MHz	7.15	432.9875	48.0	46.6	CW	E	1.04	BS2	0.001	0.001	0.002	0.001	0.002	0.008	0.02	0.038	0.065	0.08	0.5	0.023	0.012	0.01
Roof	HAE6011A,380-433MHz	7.15	380.0125	48.0	47.6	CW	E	1.09	BS3	0.002	0.003	0.008	0.015	0.026	0.03	0.038	0.048	0.05	0.053	0.5	0.030	0.015	0.02
Roof	HAE6011A,380-433MHz	7.15	393.0125	48.0	47.6	CW	E	1.11	BS3	0.002	0.003	0.006	0.01	0.02	0.032	0.042	0.057	0.08	0.09	0.5	0.038	0.019	0.02
Roof	HAE6011A,380-433MHz	7.15	406.5000	48.0	47.1	CW	E	1.11	BS3	0.001	0.002	0.003	0.004	0.023	0.045	0.06	0.092	0.107	0.112	0.5	0.050	0.025	0.03
Roof	HAE6011A,380-433MHz	7.15	419.5000	48.0	47.4	CW	E	1.07	BS3	0.001	0.002	0.003	0.005	0.007	0.021	0.027	0.05	0.061	0.068	0.5	0.026	0.013	0.01
Roof	HAE6011A,380-433MHz	7.15	432.9875	48.0	46.6	CW	E	1.04	BS3	0.001	0.001	0.001	0.002	0.003	0.006	0.02	0.034	0.047	0.05	0.5	0.017	0.009	0.01
Roof	HAE6011A,380-433MHz	7.15	380.0125	48.0	47.6	CW	E	1.09	BS4	0.002	0.003	0.005	0.006	0.01	0.022	0.024	0.03	0.04	0.054	0.5	0.021	0.011	0.01
Roof	HAE6011A,380-433MHz	7.15	393.0125	48.0	47.6	CW	E	1.11	BS4	0.003	0.004	0.004	0.008	0.023	0.032	0.043	0.048	0.06	0.072	0.5	0.033	0.016	0.02
Roof	HAE6011A,380-433MHz	7.15	406.5000	48.0	47.1	CW	E	1.11	BS4	0.003	0.004	0.004	0.005	0.006	0.008	0.02	0.027	0.042	0.053	0.5	0.019	0.010	0.01
Roof	HAE6011A,380-433MHz	7.15	419.5000	48.0	47.4	CW	E	1.07	BS4	0.002	0.003	0.003	0.005	0.011	0.018	0.022	0.026	0.033	0.04	0.5	0.017	0.009	0.01
Roof	HAE6011A,380-433MHz	7.15	432.9875	48.0	46.6	CW	E	1.04	BS4	0.002	0.002	0.003	0.005	0.007	0.01	0.01	0.014	0.023	0.03	0.5	0.011	0.005	0.01
Roof	HAE6011A,380-433MHz	7.15	380.0125	48.0	47.6	CW	E	1.09	BS5	0.002	0.002	0.002	0.008	0.015	0.02	0.025	0.03	0.041	0.054	0.5	0.022	0.011	0.01
Roof	HAE6011A,380-433MHz	7.15	393.0125	48.0	47.6	CW	E	1.11	BS5	0.002	0.003	0.004	0.005	0.006	0.007	0.02	0.03	0.051	0.061	0.5	0.021	0.010	0.01
Roof	HAE6011A,380-433MHz	7.15	406.5000	48.0	47.1	CW	E	1.11	BS5	0.001	0.001	0.002	0.002	0.007	0.018	0.03	0.036	0.045	0.058	0.5	0.022	0.011	0.01
Roof	HAE6011A,380-433MHz	7.15	419.5000	48.0	47.4	CW	E	1.07	BS5	0.001	0.001	0.002	0.006	0.011	0.02	0.023	0.031	0.041	0.052	0.5	0.020	0.010	0.01
Roof	HAE6011A,380-433MHz	7.15	432.9875	48.0	46.6	CW	E	1.04	BS5	0.001	0.001	0.001	0.004	0.006	0.01	0.02	0.018	0.022	0.03	0.5	0.011	0.006	0.01

Notes:

MPE calculations are defined in section 15.0
 Blue fonts: Frequencies not regulated by FCC.

Table F.1 (Continued)
APX6500 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/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	HAE6011A,380-433MHz	7.15	380.0125	48.0	47.6	CW	E	1.09	BS5	0.002	0.002	0.002	0.008	0.015	0.02	0.025	0.03	0.041	0.054	0.5	0.022	0.011	0.01
Roof	HAE6011A,380-433MHz	7.15	393.0125	48.0	47.6	CW	E	1.11	BS5	0.002	0.003	0.004	0.005	0.006	0.007	0.02	0.03	0.051	0.061	0.5	0.021	0.010	0.01
Roof	HAE6011A,380-433MHz	7.15	406.5000	48.0	47.1	CW	E	1.11	BS5	0.001	0.001	0.002	0.002	0.007	0.018	0.03	0.036	0.045	0.058	0.5	0.022	0.011	0.01
Roof	HAE6011A,380-433MHz	7.15	419.5000	48.0	47.4	CW	E	1.07	BS5	0.001	0.001	0.002	0.006	0.011	0.02	0.023	0.031	0.041	0.052	0.5	0.020	0.010	0.01
Roof	HAE6011A,380-433MHz	7.15	432.9875	48.0	46.6	CW	E	1.04	BS5	0.001	0.001	0.001	0.004	0.006	0.01	0.02	0.018	0.022	0.03	0.5	0.011	0.006	0.01
Roof	HAE6012A, 380-433MHz	2.15	380.0125	48.0	47.6	CW	E	1.09	BS1	0.018	0.021	0.02	0.026	0.04	0.06	0.082	0.105	0.124	0.148	0.5	0.070	0.035	0.04
Roof	HAE6012A, 380-433MHz	2.15	393.0125	48.0	47.6	CW	E	1.11	BS1	0.016	0.013	0.014	0.021	0.031	0.051	0.078	0.098	0.121	0.123	0.5	0.063	0.031	0.03
Roof	HAE6012A, 380-433MHz	2.15	406.5000	48.0	47.1	CW	E	1.11	BS1	0.004	0.005	0.014	0.018	0.027	0.04	0.07	0.095	0.124	0.13	0.5	0.058	0.029	0.03
Roof	HAE6012A, 380-433MHz	2.15	419.5000	48.0	47.4	CW	E	1.07	BS1	0.008	0.006	0.018	0.023	0.026	0.036	0.065	0.082	0.108	0.098	0.5	0.050	0.025	0.03
Roof	HAE6012A, 380-433MHz	2.15	432.9875	48.0	46.6	CW	E	1.04	BS1	0.005	0.019	0.018	0.017	0.022	0.027	0.04	0.068	0.102	0.13	0.5	0.047	0.023	0.02
Roof	HAE6012A, 380-433MHz	2.15	380.0125	48.0	47.6	CW	E	1.09	BS2	0.013	0.017	0.018	0.02	0.028	0.05	0.067	0.08	0.085	0.088	0.5	0.051	0.025	0.03
Roof	HAE6012A, 380-433MHz	2.15	393.0125	48.0	47.6	CW	E	1.11	BS2	0.016	0.024	0.026	0.03	0.028	0.038	0.05	0.052	0.08	0.082	0.5	0.047	0.024	0.02
Roof	HAE6012A, 380-433MHz	2.15	406.5000	48.0	47.1	CW	E	1.11	BS2	0.016	0.025	0.018	0.02	0.022	0.026	0.036	0.044	0.063	0.073	0.5	0.038	0.019	0.02
Roof	HAE6012A, 380-433MHz	2.15	419.5000	48.0	47.4	CW	E	1.07	BS2	0.012	0.013	0.015	0.017	0.026	0.04	0.051	0.068	0.075	0.088	0.5	0.043	0.022	0.02
Roof	HAE6012A, 380-433MHz	2.15	432.9875	48.0	46.6	CW	E	1.04	BS2	0.005	0.008	0.015	0.013	0.016	0.02	0.03	0.048	0.063	0.09	0.5	0.032	0.016	0.02

Notes:

MPE calculations are defined in section 15.0
 Blue fonts: Frequencies not regulated by FCC.

Table F.1 (Continued)
APX6500 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/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	HAE6012A, 380-433MHz	2.15	380.0125	48.0	47.6	CW	E	1.09	BS3	0.018	0.024	0.026	0.038	0.033	0.026	0.028	0.033	0.037	0.055	0.5	0.035	0.017	0.02
Roof	HAE6012A, 380-433MHz	2.15	393.0125	48.0	47.6	CW	E	1.11	BS3	0.016	0.021	0.028	0.04	0.042	0.05	0.038	0.04	0.046	0.058	0.5	0.042	0.021	0.02
Roof	HAE6012A, 380-433MHz	2.15	406.5000	48.0	47.1	CW	E	1.11	BS3	0.016	0.018	0.02	0.037	0.04	0.045	0.046	0.06	0.066	0.08	0.5	0.048	0.024	0.02
Roof	HAE6012A, 380-433MHz	2.15	419.5000	48.0	47.4	CW	E	1.07	BS3	0.017	0.018	0.02	0.026	0.024	0.026	0.03	0.052	0.064	0.068	0.5	0.037	0.018	0.02
Roof	HAE6012A, 380-433MHz	2.15	432.9875	48.0	46.6	CW	E	1.04	BS3	0.018	0.02	0.024	0.028	0.025	0.03	0.04	0.05	0.064	0.07	0.5	0.038	0.019	0.02
Roof	HAE6012A, 380-433MHz	2.15	380.0125	48.0	47.6	CW	E	1.09	BS4	0.005	0.007	0.01	0.016	0.024	0.034	0.03	0.025	0.026	0.036	0.5	0.023	0.012	0.01
Roof	HAE6012A, 380-433MHz	2.15	393.0125	48.0	47.6	CW	E	1.11	BS4	0.005	0.006	0.005	0.008	0.022	0.03	0.034	0.032	0.033	0.042	0.5	0.024	0.012	0.01
Roof	HAE6012A, 380-433MHz	2.15	406.5000	48.0	47.1	CW	E	1.11	BS4	0.011	0.012	0.005	0.012	0.022	0.024	0.026	0.027	0.032	0.04	0.5	0.023	0.012	0.01
Roof	HAE6012A, 380-433MHz	2.15	419.5000	48.0	47.4	CW	E	1.07	BS4	0.013	0.014	0.012	0.017	0.025	0.034	0.03	0.026	0.028	0.036	0.5	0.025	0.013	0.01
Roof	HAE6012A, 380-433MHz	2.15	432.9875	48.0	46.6	CW	E	1.04	BS4	0.006	0.01	0.014	0.016	0.021	0.027	0.03	0.024	0.027	0.03	0.5	0.021	0.011	0.01
Roof	HAE6012A, 380-433MHz	2.15	380.0125	48.0	47.6	CW	E	1.09	BS5	0.001	0.001	0.001	0.002	0.006	0.012	0.014	0.017	0.018	0.021	0.5	0.010	0.005	0.01
Roof	HAE6012A, 380-433MHz	2.15	393.0125	48.0	47.6	CW	E	1.11	BS5	0.001	0.002	0.002	0.002	0.002	0.004	0.006	0.017	0.027	0.037	0.5	0.011	0.006	0.01
Roof	HAE6012A, 380-433MHz	2.15	406.5000	48.0	47.1	CW	E	1.11	BS5	0.001	0.002	0.003	0.004	0.015	0.017	0.02	0.022	0.025	0.032	0.5	0.016	0.008	0.01
Roof	HAE6012A, 380-433MHz	2.15	419.5000	48.0	47.4	CW	E	1.07	BS5	0.001	0.005	0.006	0.007	0.01	0.023	0.027	0.03	0.032	0.035	0.5	0.019	0.009	0.01
Roof	HAE6012A, 380-433MHz	2.15	432.9875	48.0	46.6	CW	E	1.04	BS5	0.002	0.002	0.002	0.002	0.007	0.021	0.03	0.025	0.024	0.03	0.5	0.015	0.007	0.01

Notes:

MPE calculations are defined in section 15.0

Blue fonts: Frequencies not regulated by FCC.

Table F.1 (Continued)

APX6500 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/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	HAE6013A, 380-470MHz	4.15	380.0125	48.0	47.6	CW	E	1.09	BS1	0.014	0.018	0.02	0.025	0.032	0.054	0.072	0.092	0.11	0.121	0.5	0.061	0.030	0.03
Roof	HAE6013A, 380-470MHz	4.15	393.0125	48.0	47.6	CW	E	1.11	BS1	0.013	0.016	0.018	0.022	0.028	0.057	0.073	0.095	0.104	0.109	0.5	0.059	0.030	0.03
Roof	HAE6013A, 380-470MHz	4.15	406.5000	48.0	47.1	CW	E	1.11	BS1	0.005	0.007	0.015	0.025	0.026	0.047	0.1	0.11	0.124	0.127	0.5	0.065	0.033	0.03
Roof	HAE6013A, 380-470MHz	4.15	422.0125	48.0	47.3	CW	E	1.07	BS1	0.01	0.012	0.023	0.032	0.04	0.052	0.067	0.09	0.12	0.127	0.5	0.061	0.031	0.03
Roof	HAE6013A, 380-470MHz	4.15	438.0125	48.0	46.7	CW	E	1.03	BS1	0.011	0.013	0.014	0.016	0.03	0.042	0.077	0.11	0.123	0.145	0.5	0.060	0.030	0.03
Roof	HAE6013A, 380-470MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	BS1	0.006	0.007	0.008	0.013	0.025	0.052	0.078	0.11	0.12	0.112	0.5	0.053	0.027	0.03
Roof	HAE6013A, 380-470MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	BS1	0.006	0.007	0.01	0.013	0.024	0.031	0.07	0.095	0.105	0.10	0.5	0.044	0.022	0.02
Roof	HAE6013A, 380-470MHz	4.15	380.0125	48.0	47.6	CW	E	1.09	BS2	0.011	0.016	0.018	0.02	0.022	0.035	0.056	0.064	0.08	0.078	0.5	0.044	0.022	0.02
Roof	HAE6013A, 380-470MHz	4.15	393.0125	48.0	47.6	CW	E	1.11	BS2	0.014	0.023	0.025	0.03	0.026	0.036	0.05	0.052	0.07	0.072	0.5	0.044	0.022	0.02
Roof	HAE6013A, 380-470MHz	4.15	406.5000	48.0	47.1	CW	E	1.11	BS2	0.015	0.02	0.022	0.024	0.033	0.03	0.038	0.047	0.05	0.076	0.5	0.039	0.020	0.02
Roof	HAE6013A, 380-470MHz	4.15	422.0125	48.0	47.3	CW	E	1.07	BS2	0.01	0.013	0.015	0.02	0.023	0.047	0.065	0.076	0.09	0.094	0.5	0.048	0.024	0.02
Roof	HAE6013A, 380-470MHz	4.15	438.0125	48.0	46.7	CW	E	1.03	BS2	0.015	0.017	0.017	0.018	0.025	0.046	0.067	0.076	0.111	0.107	0.5	0.051	0.026	0.03
Roof	HAE6013A, 380-470MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	BS2	0.012	0.013	0.015	0.018	0.022	0.034	0.05	0.068	0.107	0.105	0.5	0.044	0.022	0.02
Roof	HAE6013A, 380-470MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	BS2	0.006	0.007	0.01	0.018	0.02	0.037	0.06	0.08	0.082	0.09	0.5	0.038	0.019	0.02
Roof	HAE6013A, 380-470MHz	4.15	380.0125	48.0	47.6	CW	E	1.09	BS3	0.016	0.02	0.02	0.027	0.028	0.03	0.025	0.027	0.035	0.048	0.5	0.030	0.015	0.02
Roof	HAE6013A, 380-470MHz	4.15	393.0125	48.0	47.6	CW	E	1.11	BS3	0.018	0.02	0.025	0.04	0.041	0.043	0.04	0.043	0.048	0.06	0.5	0.042	0.021	0.02
Roof	HAE6013A, 380-470MHz	4.15	406.5000	48.0	47.1	CW	E	1.11	BS3	0.02	0.021	0.027	0.038	0.046	0.054	0.052	0.07	0.085	0.092	0.5	0.056	0.028	0.03
Roof	HAE6013A, 380-470MHz	4.15	422.0125	48.0	47.3	CW	E	1.07	BS3	0.02	0.021	0.023	0.03	0.022	0.024	0.034	0.052	0.077	0.078	0.5	0.041	0.020	0.02

Notes:

MPE calculations are defined in section 15.0

Blue fonts: Frequencies not regulated by FCC.

Table F.1 (Continued)
APX6500 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/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	HAE6013A, 380-470MHz	4.15	438.0125	48.0	46.7	CW	E	1.03	BS3	0.017	0.018	0.022	0.024	0.02	0.024	0.031	0.044	0.066	0.09	0.5	0.037	0.018	0.02
Roof	HAE6013A, 380-470MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	BS3	0.011	0.014	0.02	0.024	0.034	0.038	0.056	0.07	0.071	0.07	0.5	0.041	0.020	0.02
Roof	HAE6013A, 380-470MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	BS3	0.008	0.016	0.021	0.025	0.03	0.036	0.03	0.044	0.048	0.06	0.5	0.031	0.015	0.02
Roof	HAE6013A, 380-470MHz	4.15	380.0125	48.0	47.6	CW	E	1.09	BS4	0.003	0.005	0.007	0.013	0.023	0.028	0.027	0.025	0.023	0.03	0.5	0.020	0.010	0.01
Roof	HAE6013A, 380-470MHz	4.15	393.0125	48.0	47.6	CW	E	1.11	BS4	0.006	0.008	0.007	0.01	0.023	0.03	0.033	0.03	0.032	0.043	0.5	0.025	0.012	0.01
Roof	HAE6013A, 380-470MHz	4.15	406.5000	48.0	47.1	CW	E	1.11	BS4	0.011	0.012	0.01	0.013	0.021	0.028	0.028	0.03	0.035	0.043	0.5	0.026	0.013	0.01
Roof	HAE6013A, 380-470MHz	4.15	422.0125	48.0	47.3	CW	E	1.07	BS4	0.014	0.018	0.017	0.03	0.04	0.044	0.035	0.024	0.026	0.044	0.5	0.031	0.016	0.02
Roof	HAE6013A, 380-470MHz	4.15	438.0125	48.0	46.7	CW	E	1.03	BS4	0.005	0.006	0.008	0.02	0.028	0.03	0.026	0.025	0.03	0.036	0.5	0.022	0.011	0.01
Roof	HAE6013A, 380-470MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	BS4	0.01	0.012	0.01	0.017	0.026	0.036	0.033	0.034	0.036	0.042	0.5	0.026	0.013	0.01
Roof	HAE6013A, 380-470MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	BS4	0.007	0.008	0.01	0.02	0.035	0.046	0.03	0.033	0.034	0.04	0.5	0.025	0.013	0.01
Roof	HAE6013A, 380-470MHz	4.15	380.0125	48.0	47.6	CW	E	1.09	BS5	0.001	0.002	0.002	0.002	0.003	0.005	0.007	0.008	0.01	0.02	0.5	0.007	0.003	0.00
Roof	HAE6013A, 380-470MHz	4.15	393.0125	48.0	47.6	CW	E	1.11	BS5	0.001	0.001	0.001	0.002	0.003	0.005	0.007	0.018	0.028	0.037	0.5	0.011	0.006	0.01
Roof	HAE6013A, 380-470MHz	4.15	406.5000	48.0	47.1	CW	E	1.11	BS5	0.001	0.001	0.003	0.01	0.017	0.02	0.022	0.025	0.028	0.04	0.5	0.019	0.009	0.01
Roof	HAE6013A, 380-470MHz	4.15	422.0125	48.0	47.3	CW	E	1.07	BS5	0.001	0.002	0.003	0.007	0.01	0.024	0.035	0.043	0.044	0.05	0.5	0.023	0.012	0.01
Roof	HAE6013A, 380-470MHz	4.15	438.0125	48.0	46.7	CW	E	1.03	BS5	0.002	0.003	0.003	0.004	0.013	0.026	0.033	0.041	0.048	0.056	0.5	0.024	0.012	0.01
Roof	HAE6013A, 380-470MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	BS5	0.001	0.001	0.003	0.006	0.016	0.024	0.023	0.022	0.035	0.047	0.5	0.018	0.009	0.01
Roof	HAE6013A, 380-470MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	BS5	0.001	0.001	0.003	0.005	0.007	0.013	0.03	0.03	0.022	0.03	0.5	0.013	0.006	0.01

Notes:

MPE calculations are defined in section 15.0
 Blue fonts: Frequencies not regulated by FCC.

Table F.1 (Continued)
APX6500 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/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	HAE6015A, 450-520MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	BS1	0.005	0.007	0.01	0.017	0.028	0.051	0.085	0.115	0.135	0.111	0.5	0.056	0.028	0.03
Roof	HAE6015A, 450-520MHz	4.15	460.0000	48.0	47.0	CW	E	0.98	BS1	0.005	0.005	0.02	0.027	0.034	0.051	0.072	0.105	0.126	0.157	0.5	0.059	0.029	0.03
Roof	HAE6015A, 450-520MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	BS1	0.011	0.017	0.016	0.018	0.03	0.05	0.078	0.117	0.132	0.113	0.5	0.055	0.028	0.03
Roof	HAE6015A, 450-520MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	BS2	0.011	0.018	0.016	0.017	0.025	0.042	0.06	0.085	0.108	0.128	0.5	0.051	0.026	0.03
Roof	HAE6015A, 450-520MHz	4.15	460.0000	48.0	47.0	CW	E	0.98	BS2	0.014	0.02	0.018	0.019	0.027	0.045	0.064	0.1	0.122	0.113	0.5	0.053	0.027	0.03
Roof	HAE6015A, 450-520MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	BS2	0.007	0.009	0.014	0.018	0.02	0.046	0.061	0.092	0.103	0.1	0.5	0.045	0.022	0.02
Roof	HAE6015A, 450-520MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	BS3	0.01	0.014	0.018	0.022	0.024	0.025	0.05	0.057	0.067	0.063	0.5	0.035	0.018	0.02
Roof	HAE6015A, 450-520MHz	4.15	460.0000	48.0	47.0	CW	E	0.98	BS3	0.011	0.013	0.02	0.03	0.031	0.033	0.046	0.061	0.065	0.078	0.5	0.038	0.019	0.02
Roof	HAE6015A, 450-520MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	BS3	0.01	0.014	0.023	0.025	0.04	0.042	0.04	0.057	0.057	0.074	0.5	0.036	0.018	0.02
Roof	HAE6015A, 450-520MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	BS4	0.006	0.012	0.01	0.017	0.03	0.034	0.032	0.03	0.035	0.041	0.5	0.025	0.012	0.01
Roof	HAE6015A, 450-520MHz	4.15	460.0000	48.0	47.0	CW	E	0.98	BS4	0.011	0.014	0.01	0.014	0.017	0.023	0.032	0.036	0.033	0.04	0.5	0.023	0.011	0.01
Roof	HAE6015A, 450-520MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	BS4	0.008	0.012	0.01	0.023	0.033	0.04	0.042	0.033	0.037	0.05	0.5	0.027	0.014	0.01
Roof	HAE6015A, 450-520MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	BS5	0.002	0.002	0.004	0.008	0.015	0.023	0.028	0.03	0.034	0.046	0.5	0.019	0.010	0.01
Roof	HAE6015A, 450-520MHz	4.15	460.0000	48.0	47.0	CW	E	0.98	BS5	0.001	0.002	0.002	0.003	0.011	0.026	0.031	0.025	0.022	0.03	0.5	0.015	0.007	0.01
Roof	HAE6015A, 450-520MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	BS5	0.001	0.001	0.001	0.005	0.007	0.016	0.026	0.028	0.026	0.03	0.5	0.013	0.007	0.01

Notes:

MPE calculations are defined in section 15.0

Table F.1 (Continued)

APX6500 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/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	HAE6016A, 450 - 512MHz	2.15	450.0125	48.0	46.8	CW	E	1.00	BS1	0.003	0.004	0.007	0.008	0.02	0.04	0.047	0.085	0.096	0.117	0.5	0.043	0.021	0.02
Roof	HAE6016A, 450 - 512MHz	2.15	460.0000	48.0	47.0	CW	E	0.98	BS1	0.004	0.005	0.012	0.016	0.023	0.033	0.048	0.067	0.095	0.105	0.5	0.040	0.020	0.02
Roof	HAE6016A, 450 - 512MHz	2.15	469.9875	48.0	47.4	CW	E	0.95	BS1	0.01	0.011	0.012	0.013	0.022	0.036	0.056	0.082	0.1	0.096	0.5	0.042	0.021	0.02
Roof	HAE6016A, 450 - 512MHz	2.15	450.0125	48.0	46.8	CW	E	1.00	BS2	0.011	0.012	0.016	0.017	0.018	0.03	0.042	0.06	0.083	0.1	0.5	0.039	0.019	0.02
Roof	HAE6016A, 450 - 512MHz	2.15	460.0000	48.0	47.0	CW	E	0.98	BS2	0.01	0.016	0.015	0.016	0.02	0.031	0.048	0.072	0.1	0.116	0.5	0.044	0.022	0.02
Roof	HAE6016A, 450 - 512MHz	2.15	469.9875	48.0	47.4	CW	E	0.95	BS2	0.002	0.006	0.011	0.012	0.02	0.032	0.054	0.072	0.097	0.094	0.5	0.038	0.019	0.02
Roof	HAE6016A, 450 - 512MHz	2.15	450.0125	48.0	46.8	CW	E	1.00	BS3	0.005	0.007	0.012	0.015	0.016	0.022	0.032	0.042	0.044	0.048	0.5	0.024	0.012	0.01
Roof	HAE6016A, 450 - 512MHz	2.15	460.0000	48.0	47.0	CW	E	0.98	BS3	0.005	0.007	0.014	0.016	0.021	0.025	0.034	0.038	0.045	0.056	0.5	0.026	0.013	0.01
Roof	HAE6016A, 450 - 512MHz	2.15	469.9875	48.0	47.4	CW	E	0.95	BS3	0.008	0.009	0.02	0.022	0.025	0.027	0.033	0.036	0.04	0.053	0.5	0.026	0.013	0.01
Roof	HAE6016A, 450 - 512MHz	2.15	450.0125	48.0	46.8	CW	E	1.00	BS4	0.004	0.006	0.01	0.014	0.02	0.024	0.025	0.026	0.028	0.033	0.5	0.019	0.010	0.01
Roof	HAE6016A, 450 - 512MHz	2.15	460.0000	48.0	47.0	CW	E	0.98	BS4	0.003	0.01	0.01	0.012	0.014	0.016	0.026	0.027	0.025	0.03	0.5	0.017	0.008	0.01
Roof	HAE6016A, 450 - 512MHz	2.15	469.9875	48.0	47.4	CW	E	0.95	BS4	0.006	0.008	0.012	0.014	0.02	0.027	0.028	0.025	0.022	0.032	0.5	0.018	0.009	0.01
Roof	HAE6016A, 450 - 512MHz	2.15	450.0125	48.0	46.8	CW	E	1.00	BS5	0.001	0.002	0.002	0.005	0.007	0.018	0.02	0.018	0.024	0.032	0.5	0.013	0.006	0.01
Roof	HAE6016A, 450 - 512MHz	2.15	460.0000	48.0	47.0	CW	E	0.98	BS5	0.001	0.001	0.003	0.004	0.006	0.018	0.021	0.02	0.018	0.021	0.5	0.011	0.006	0.01
Roof	HAE6016A, 450 - 512MHz	2.15	469.9875	48.0	47.4	CW	E	0.95	BS5	0.001	0.001	0.001	0.003	0.004	0.006	0.023	0.024	0.023	0.022	0.5	0.010	0.005	0.01

Notes:

MPE calculations are defined in section 15.0

Table F.1 (Continued)
APX6500 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/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	HAE6031A, 380-520MHz	4.15	380.0125	48.0	47.6	CW	E	1.09	BS1	0.017	0.026	0.023	0.026	0.042	0.055	0.082	0.106	0.12	0.145	0.5	0.070	0.035	0.04
Roof	HAE6031A, 380-520MHz	4.15	393.0125	48.0	47.6	CW	E	1.11	BS1	0.012	0.016	0.018	0.022	0.03	0.054	0.074	0.098	0.11	0.114	0.5	0.061	0.030	0.03
Roof	HAE6031A, 380-520MHz	4.15	406.5000	48.0	47.1	CW	E	1.11	BS1	0.005	0.01	0.014	0.02	0.024	0.04	0.071	0.11	0.121	0.123	0.5	0.060	0.030	0.03
Roof	HAE6031A, 380-520MHz	4.15	422.0125	48.0	47.3	CW	E	1.07	BS1	0.005	0.007	0.022	0.036	0.038	0.046	0.073	0.09	0.114	0.125	0.5	0.059	0.030	0.03
Roof	HAE6031A, 380-520MHz	4.15	438.0125	48.0	46.7	CW	E	1.03	BS1	0.01	0.018	0.019	0.022	0.027	0.045	0.076	0.098	0.13	0.11	0.5	0.057	0.029	0.03
Roof	HAE6031A, 380-520MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	BS1	0.005	0.006	0.012	0.014	0.03	0.062	0.081	0.127	0.132	0.152	0.5	0.062	0.031	0.03
Roof	HAE6031A, 380-520MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	BS1	0.011	0.014	0.015	0.016	0.04	0.05	0.077	0.112	0.133	0.128	0.5	0.057	0.028	0.03
Roof	HAE6031A, 380-520MHz	4.15	380.0125	48.0	47.6	CW	E	1.09	BS2	0.015	0.02	0.018	0.023	0.025	0.051	0.062	0.083	0.092	0.095	0.5	0.053	0.026	0.03
Roof	HAE6031A, 380-520MHz	4.15	393.0125	48.0	47.6	CW	E	1.11	BS2	0.017	0.02	0.021	0.022	0.024	0.035	0.048	0.062	0.07	0.073	0.5	0.044	0.022	0.02
Roof	HAE6031A, 380-520MHz	4.15	406.5000	48.0	47.1	CW	E	1.11	BS2	0.014	0.017	0.02	0.026	0.027	0.028	0.037	0.046	0.065	0.08	0.5	0.040	0.020	0.02
Roof	HAE6031A, 380-520MHz	4.15	422.0125	48.0	47.3	CW	E	1.07	BS2	0.012	0.015	0.016	0.018	0.025	0.034	0.054	0.075	0.092	0.1	0.5	0.047	0.024	0.02
Roof	HAE6031A, 380-520MHz	4.15	438.0125	48.0	46.7	CW	E	1.03	BS2	0.015	0.02	0.017	0.02	0.023	0.045	0.061	0.097	0.116	0.112	0.5	0.054	0.027	0.03
Roof	HAE6031A, 380-520MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	BS2	0.012	0.016	0.015	0.017	0.02	0.046	0.061	0.09	0.11	0.113	0.5	0.050	0.025	0.03
Roof	HAE6031A, 380-520MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	BS2	0.006	0.011	0.014	0.023	0.03	0.042	0.072	0.103	0.121	0.122	0.5	0.052	0.026	0.03
Roof	HAE6031A, 380-520MHz	4.15	380.0125	48.0	47.6	CW	E	1.09	BS3	0.02	0.025	0.022	0.031	0.03	0.028	0.028	0.032	0.042	0.056	0.5	0.034	0.017	0.02
Roof	HAE6031A, 380-520MHz	4.15	393.0125	48.0	47.6	CW	E	1.11	BS3	0.015	0.017	0.021	0.036	0.041	0.038	0.04	0.045	0.05	0.063	0.5	0.041	0.020	0.02
Roof	HAE6031A, 380-520MHz	4.15	406.5000	48.0	47.1	CW	E	1.11	BS3	0.019	0.02	0.025	0.038	0.046	0.055	0.053	0.063	0.08	0.093	0.5	0.055	0.027	0.03

Notes:

MPE calculations are defined in section 15.0
 Blue fonts: Frequencies not regulated by FCC.

Table F.1 (Continued)
APX6500 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/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	HAE6031A, 380-520MHz	4.15	422.0125	48.0	47.3	CW	E	1.07	BS3	0.017	0.02	0.023	0.032	0.031	0.027	0.032	0.05	0.068	0.075	0.5	0.040	0.020	0.02
Roof	HAE6031A, 380-520MHz	4.15	438.0125	48.0	46.7	CW	E	1.03	BS3	0.017	0.018	0.02	0.024	0.02	0.025	0.031	0.042	0.063	0.085	0.5	0.036	0.018	0.02
Roof	HAE6031A, 380-520MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	BS3	0.01	0.015	0.02	0.022	0.032	0.038	0.055	0.066	0.07	0.074	0.5	0.040	0.020	0.02
Roof	HAE6031A, 380-520MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	BS3	0.01	0.018	0.025	0.027	0.03	0.042	0.04	0.048	0.056	0.075	0.5	0.035	0.018	0.02
Roof	HAE6031A, 380-520MHz	4.15	380.0125	48.0	47.6	CW	E	1.09	BS4	0.007	0.008	0.011	0.015	0.024	0.031	0.03	0.026	0.027	0.036	0.5	0.023	0.012	0.01
Roof	HAE6031A, 380-520MHz	4.15	393.0125	48.0	47.6	CW	E	1.11	BS4	0.006	0.007	0.008	0.01	0.021	0.03	0.031	0.032	0.034	0.042	0.5	0.025	0.012	0.01
Roof	HAE6031A, 380-520MHz	4.15	406.5000	48.0	47.1	CW	E	1.11	BS4	0.011	0.012	0.01	0.012	0.023	0.024	0.026	0.028	0.033	0.04	0.5	0.024	0.012	0.01
Roof	HAE6031A, 380-520MHz	4.15	422.0125	48.0	47.3	CW	E	1.07	BS4	0.013	0.017	0.02	0.027	0.035	0.037	0.035	0.028	0.03	0.04	0.5	0.030	0.015	0.02
Roof	HAE6031A, 380-520MHz	4.15	438.0125	48.0	46.7	CW	E	1.03	BS4	0.005	0.007	0.01	0.02	0.028	0.031	0.027	0.025	0.03	0.034	0.5	0.022	0.011	0.01
Roof	HAE6031A, 380-520MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	BS4	0.011	0.012	0.015	0.02	0.026	0.036	0.034	0.035	0.037	0.044	0.5	0.027	0.014	0.01
Roof	HAE6031A, 380-520MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	BS4	0.01	0.01	0.017	0.024	0.04	0.042	0.04	0.04	0.042	0.05	0.5	0.030	0.015	0.02
Roof	HAE6031A, 380-520MHz	4.15	380.0125	48.0	47.6	CW	E	1.09	BS5	0.001	0.002	0.001	0.001	0.003	0.005	0.007	0.01	0.013	0.021	0.5	0.007	0.003	0.00
Roof	HAE6031A, 380-520MHz	4.15	393.0125	48.0	47.6	CW	E	1.11	BS5	0.001	0.001	0.001	0.001	0.001	0.006	0.008	0.018	0.03	0.041	0.5	0.012	0.006	0.01
Roof	HAE6031A, 380-520MHz	4.15	406.5000	48.0	47.1	CW	E	1.11	BS5	0.001	0.001	0.002	0.004	0.015	0.02	0.022	0.024	0.033	0.04	0.5	0.018	0.009	0.01
Roof	HAE6031A, 380-520MHz	4.15	422.0125	48.0	47.3	CW	E	1.07	BS5	0.001	0.003	0.005	0.006	0.007	0.021	0.026	0.041	0.042	0.048	0.5	0.021	0.011	0.01
Roof	HAE6031A, 380-520MHz	4.15	438.0125	48.0	46.7	CW	E	1.03	BS5	0.001	0.001	0.001	0.005	0.015	0.027	0.03	0.033	0.044	0.05	0.5	0.021	0.011	0.01
Roof	HAE6031A, 380-520MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	BS5	0.001	0.002	0.005	0.006	0.017	0.027	0.03	0.034	0.035	0.046	0.5	0.020	0.010	0.01
Roof	HAE6031A, 380-520MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	BS5	0.001	0.001	0.001	0.005	0.007	0.015	0.027	0.031	0.03	0.037	0.5	0.015	0.007	0.01

Notes:

MPE calculations are defined in section 15.0
 Blue fonts: Frequencies not regulated by FCC.

Table F.1 (Continued)
APX6500 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/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	RAE4014ARB, 445 - 470MHz	7.15	450.0125	48.0	46.8	CW	E	1.00	BS1	0.001	0.001	0.001	0.001	0.002	0.004	0.025	0.068	0.127	0.151	0.5	0.042	0.021	0.02
Roof	RAE4014ARB, 445 - 470MHz	7.15	460.0000	48.0	47.0	CW	E	0.98	BS1	0.001	0.001	0.001	0.001	0.004	0.02	0.047	0.096	0.14	0.17	0.5	0.047	0.024	0.02
Roof	RAE4014ARB, 445 - 470MHz	7.15	469.9875	48.0	47.4	CW	E	0.95	BS1	0.001	0.001	0.001	0.001	0.001	0.008	0.037	0.09	0.14	0.16	0.5	0.041	0.021	0.02
Roof	RAE4014ARB, 445 - 470MHz	7.15	450.0125	48.0	46.8	CW	E	1.00	BS2	0.001	0.001	0.001	0.001	0.002	0.006	0.021	0.051	0.106	0.137	0.5	0.033	0.016	0.02
Roof	RAE4014ARB, 445 - 470MHz	7.15	460.0000	48.0	47.0	CW	E	0.98	BS2	0.001	0.001	0.001	0.003	0.007	0.03	0.062	0.11	0.15	0.16	0.5	0.051	0.026	0.03
Roof	RAE4014ARB, 445 - 470MHz	7.15	469.9875	48.0	47.4	CW	E	0.95	BS2	0.001	0.001	0.001	0.001	0.003	0.02	0.05	0.09	0.12	0.13	0.5	0.039	0.020	0.02
Roof	RAE4014ARB, 445 - 470MHz	7.15	450.0125	48.0	46.8	CW	E	1.00	BS3	0.001	0.001	0.001	0.002	0.003	0.005	0.021	0.035	0.054	0.071	0.5	0.019	0.010	0.01
Roof	RAE4014ARB, 445 - 470MHz	7.15	460.0000	48.0	47.0	CW	E	0.98	BS3	0.001	0.001	0.001	0.002	0.004	0.015	0.03	0.057	0.07	0.08	0.5	0.026	0.013	0.01
Roof	RAE4014ARB, 445 - 470MHz	7.15	469.9875	48.0	47.4	CW	E	0.95	BS3	0.001	0.001	0.003	0.006	0.014	0.018	0.031	0.052	0.07	0.08	0.5	0.026	0.013	0.01
Roof	RAE4014ARB, 445 - 470MHz	7.15	450.0125	48.0	46.8	CW	E	1.00	BS4	0.001	0.001	0.001	0.003	0.003	0.01	0.02	0.027	0.04	0.051	0.5	0.016	0.008	0.01
Roof	RAE4014ARB, 445 - 470MHz	7.15	460.0000	48.0	47.0	CW	E	0.98	BS4	0.002	0.003	0.004	0.005	0.007	0.022	0.031	0.048	0.07	0.07	0.5	0.025	0.013	0.01
Roof	RAE4014ARB, 445 - 470MHz	7.15	469.9875	48.0	47.4	CW	E	0.95	BS4	0.003	0.004	0.007	0.013	0.022	0.035	0.047	0.052	0.07	0.08	0.5	0.032	0.016	0.02
Roof	RAE4014ARB, 445 - 470MHz	7.15	450.0125	48.0	46.8	CW	E	1.00	BS5	0.001	0.001	0.001	0.002	0.004	0.006	0.024	0.033	0.052	0.067	0.5	0.019	0.010	0.01
Roof	RAE4014ARB, 445 - 470MHz	7.15	460.0000	48.0	47.0	CW	E	0.98	BS5	0.001	0.001	0.002	0.003	0.004	0.007	0.025	0.032	0.04	0.055	0.5	0.017	0.009	0.01
Roof	RAE4014ARB, 445 - 470MHz	7.15	469.9875	48.0	47.4	CW	E	0.95	BS5	0.002	0.002	0.002	0.002	0.005	0.03	0.04	0.043	0.06	0.07	0.5	0.023	0.012	0.01

Notes:

MPE calculations are defined in section 15.0

Table F.2

APX6500 UHF R1 - MPE measurement data for Passenger

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements Passenger/Operator (MC) Positions			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								
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAE4003A, 450-470MHz	2.15	450.0125	48.0	46.8	CW	E	1.00	PB	0.073	0.047	0.153	0.5	0.091	0.046	0.05
Roof	HAE4003A, 450-470MHz	2.15	460	48.0	47	CW	E	0.98	PB	0.045	0.053	0.09	0.5	0.061	0.031	0.03
Roof	HAE4003A, 450-470MHz	2.15	469.9875	48.0	47.4	CW	E	0.95	PB	0.066	0.047	0.081	0.5	0.061	0.031	0.03
Roof	HAE4011A, 450-470MHz	5.65	450.0125	48.0	46.8	CW	E	1.00	PB	0.023	0.014	0.022	0.5	0.020	0.010	0.01
Roof	HAE4011A, 450-470MHz	5.65	460	48.0	47	CW	E	0.98	PB	0.013	0.019	0.012	0.5	0.014	0.007	0.01
Roof	HAE4011A, 450-470MHz	5.65	469.9875	48.0	47.4	CW	E	0.95	PB	0.016	0.016	0.014	0.5	0.015	0.007	0.01
Roof	HAE6010A,380-433MHz	5.65	380.0125	48.0	47.6	CW	E	1.09	PB	0.064	0.07	0.145	0.5	0.101	0.051	0.05
Roof	HAE6010A,380-433MHz	5.65	393.0125	48.0	47.6	CW	E	1.11	PB	0.078	0.08	0.094	0.5	0.093	0.047	0.05
Roof	HAE6010A,380-433MHz	5.65	406.5000	48.0	47.1	CW	E	1.11	PB	0.06	0.065	0.095	0.5	0.081	0.041	0.04
Roof	HAE6010A,380-433MHz	5.65	419.5000	48.0	47.4	CW	E	1.07	PB	0.05	0.068	0.08	0.5	0.071	0.035	0.04
Roof	HAE6010A,380-433MHz	5.65	432.9875	48.0	46.6	CW	E	1.04	PB	0.047	0.058	0.06	0.5	0.057	0.029	0.03
Roof	HAE6011A,380-433MHz	7.15	380.0125	48.0	47.6	CW	E	1.09	PB	0.01	0.006	0.029	0.5	0.016	0.008	0.01
Roof	HAE6011A,380-433MHz	7.15	393.0125	48.0	47.6	CW	E	1.11	PB	0.004	0.006	0.014	0.5	0.009	0.004	0.00
Roof	HAE6011A,380-433MHz	7.15	406.5000	48.0	47.1	CW	E	1.11	PB	0.01	0.021	0.021	0.5	0.019	0.010	0.01
Roof	HAE6011A,380-433MHz	7.15	419.5000	48.0	47.4	CW	E	1.07	PB	0.016	0.015	0.01	0.5	0.015	0.007	0.01

Notes:

MPE calculations are defined in section 15.0

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Table F.2 (Continued)

APX6500 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/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	HAE6011A,380-433MHz	7.15	432.9875	48.0	46.6	CW	E	1.04	PB	0.004	0.007	0.006	0.5	0.006	0.003	0.00
Roof	HAE6012A, 380-433MHz	2.15	380.0125	48.0	47.6	CW	E	1.09	PB	0.16	0.083	0.204	0.5	0.162	0.081	0.08
Roof	HAE6012A, 380-433MHz	2.15	393.0125	48.0	47.6	CW	E	1.11	PB	0.053	0.06	0.077	0.5	0.070	0.035	0.04
Roof	HAE6012A, 380-433MHz	2.15	406.5000	48.0	47.1	CW	E	1.11	PB	0.05	0.093	0.077	0.5	0.081	0.041	0.04
Roof	HAE6012A, 380-433MHz	2.15	419.5000	48.0	47.4	CW	E	1.07	PB	0.048	0.05	0.064	0.5	0.058	0.029	0.03
Roof	HAE6012A, 380-433MHz	2.15	432.9875	48.0	46.6	CW	E	1.04	PB	0.04	0.055	0.04	0.5	0.047	0.023	0.02
Roof	HAE6013A, 380-470MHz	4.15	380.0125	48.0	47.6	CW	E	1.09	PB	0.13	0.09	0.204	0.5	0.154	0.077	0.08
Roof	HAE6013A, 380-470MHz	4.15	393.0125	48.0	47.6	CW	E	1.11	PB	0.05	0.036	0.065	0.5	0.056	0.028	0.03
Roof	HAE6013A, 380-470MHz	4.15	406.5000	48.0	47.1	CW	E	1.14	PB	0.057	0.088	0.091	0.5	0.090	0.045	0.05
Roof	HAE6013A, 380-470MHz	4.15	422.0125	48.0	47.3	CW	E	1.14	PB	0.032	0.045	0.052	0.5	0.049	0.025	0.02
Roof	HAE6013A, 380-470MHz	4.15	438.0125	48.0	46.7	CW	E	1.14	PB	0.05	0.053	0.08	0.5	0.070	0.035	0.04
Roof	HAE6013A, 380-470MHz	4.15	450.0125	48.0	46.8	CW	E	1.14	PB	0.066	0.075	0.123	0.5	0.100	0.050	0.05
Roof	HAE6013A, 380-470MHz	4.15	469.9875	48.0	47.4	CW	E	1.14	PB	0.054	0.05	0.081	0.5	0.070	0.035	0.04
Roof	HAE6015A, 450-520MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	PB	0.07	0.077	0.145	0.5	0.097	0.049	0.05
Roof	HAE6015A, 450-520MHz	4.15	460.0000	48.0	47	CW	E	0.98	PB	0.05	0.083	0.111	0.5	0.080	0.040	0.04

Notes:

MPE calculations are defined in section 15.0

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Table F.2 (Continued)**APX6500 UHF R1 - MPE measurement data for Passenger**

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.	Passenger/Operator (MC) Positions						
											Head/ Top 1/3	Chest/ Middle 1/3					Lower Trunk/ Bottom 1/3
Roof	HAE6015A, 450-520MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	PB	0.066	0.05	0.08	0.5	0.062	0.031	0.03	
Roof	HAE6016A, 450-512MHz	2.15	450.0125	48.0	46.8	CW	E	1.00	PB	0.053	0.043	0.105	0.5	0.067	0.034	0.03	
Roof	HAE6016A, 450-512MHz	2.15	460.0000	48.0	47	CW	E	0.98	PB	0.042	0.055	0.098	0.5	0.064	0.032	0.03	
Roof	HAE6016A, 450-512MHz	2.15	469.9875	48.0	47.4	CW	E	0.95	PB	0.057	0.04	0.06	0.5	0.050	0.025	0.03	
Roof	HAE6031A, 380-520MHz	4.15	380.0125	48.0	47.6	CW	E	1.09	PB	0.068	0.065	0.162	0.5	0.107	0.054	0.05	
Roof	HAE6031A, 380-520MHz	4.15	393.0125	48.0	47.6	CW	E	1.11	PB	0.056	0.042	0.068	0.5	0.061	0.031	0.03	
Roof	HAE6031A, 380-520MHz	4.15	406.5000	48.0	47.1	CW	E	1.11	PB	0.030	0.078	0.092	0.5	0.074	0.037	0.04	
Roof	HAE6031A, 380-520MHz	4.15	422.0125	48.0	47.3	CW	E	1.07	PB	0.040	0.056	0.072	0.5	0.060	0.030	0.03	
Roof	HAE6031A, 380-520MHz	4.15	438.0125	48.0	46.7	CW	E	1.03	PB	0.050	0.055	0.070	0.5	0.060	0.030	0.03	
Roof	HAE6031A, 380-520MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	PB	0.065	0.040	0.143	0.5	0.083	0.041	0.04	
Roof	HAE6031A, 380-520MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	PB	0.074	0.050	0.066	0.5	0.060	0.030	0.03	
Roof	RAE4014ARB, 445 - 470MHz	7.15	450.0125	48.0	46.8	CW	E	1.00	PB	0.004	0.014	0.019	0.5	0.012	0.006	0.01	
Roof	RAE4014ARB, 445 - 470MHz	7.15	460	48.0	47	CW	E	0.98	PB	0.006	0.012	0.016	0.5	0.011	0.006	0.01	
Roof	RAE4014ARB, 445 - 470MHz	7.15	469.9875	48.0	47.4	CW	E	0.95	PB	0.013	0.014	0.016	0.5	0.014	0.007	0.01	

Notes:

MPE calculations are defined in section 15.0

Blue fonts: Frequencies not regulated by FCC.

Table F.2 (Continued)

APX6500 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/ 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	HAE4003A, 450-470MHz	2.15	450.0125	48.0	46.8	CW	E	1.00	PF	0.032	0.041	0.036	0.5	0.036	0.018	0.02
Roof	HAE4003A, 450-470MHz	2.15	460	48.0	47	CW	E	0.98	PF	0.026	0.038	0.048	0.5	0.037	0.018	0.02
Roof	HAE4003A, 450-470MHz	2.15	469.9875	48.0	47.4	CW	E	0.95	PF	0.042	0.044	0.077	0.5	0.052	0.026	0.03
Roof	HAE4011A, 450-470MHz	5.65	450.0125	48.0	46.8	CW	E	1.00	PF	0.006	0.016	0.014	0.5	0.012	0.006	0.01
Roof	HAE4011A, 450-470MHz	5.65	460	48.0	47	CW	E	0.98	PF	0.004	0.011	0.017	0.5	0.010	0.005	0.01
Roof	HAE4011A, 450-470MHz	5.65	469.9875	48.0	47.4	CW	E	0.95	PF	0.005	0.008	0.021	0.5	0.011	0.005	0.01
Roof	HAE6010A,380-433MHz	5.65	380.0125	48.0	47.6	CW	E	1.09	PF	0.036	0.058	0.065	0.5	0.058	0.029	0.03
Roof	HAE6010A,380-433MHz	5.65	393.0125	48.0	47.6	CW	E	1.11	PF	0.05	0.072	0.06	0.5	0.067	0.034	0.03
Roof	HAE6010A,380-433MHz	5.65	406.5000	48.0	47.1	CW	E	1.11	PF	0.116	0.114	0.075	0.5	0.113	0.056	0.06
Roof	HAE6010A,380-433MHz	5.65	419.5000	48.0	47.4	CW	E	1.07	PF	0.103	0.074	0.03	0.5	0.074	0.037	0.04
Roof	HAE6010A,380-433MHz	5.65	432.9875	48.0	46.6	CW	E	1.04	PF	0.035	0.03	0.041	0.5	0.037	0.018	0.02
Roof	HAE6011A,380-433MHz	7.15	380.0125	48.0	47.6	CW	E	1.09	PF	0.007	0.005	0.004	0.5	0.006	0.003	0.00
Roof	HAE6011A,380-433MHz	7.15	393.0125	48.0	47.6	CW	E	1.11	PF	0.013	0.011	0.008	0.5	0.012	0.006	0.01
Roof	HAE6011A,380-433MHz	7.15	406.5000	48.0	47.1	CW	E	1.11	PF	0.023	0.018	0.01	0.5	0.019	0.009	0.01
Roof	HAE6011A,380-433MHz	7.15	419.5000	48.0	47.4	CW	E	1.07	PF	0.01	0.006	0.003	0.5	0.007	0.003	0.00

Notes:

MPE calculations are defined in section 15.0

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Table F.2 (Continued)

APX6500 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/ 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	HAE6011A,380-433MHz	7.15	432.9875	48.0	46.6	CW	E	1.04	PF	0.004	0.004	0.002	0.5	0.003	0.002	0.00
Roof	HAE6012A, 380-433MHz	2.15	380.0125	48.0	47.6	CW	E	1.09	PF	0.04	0.038	0.06	0.5	0.050	0.025	0.03
Roof	HAE6012A, 380-433MHz	2.15	393.0125	48.0	47.6	CW	E	1.11	PF	0.065	0.062	0.05	0.5	0.065	0.033	0.03
Roof	HAE6012A, 380-433MHz	2.15	406.5000	48.0	47.1	CW	E	1.11	PF	0.108	0.08	0.054	0.5	0.090	0.045	0.05
Roof	HAE6012A, 380-433MHz	2.15	419.5000	48.0	47.4	CW	E	1.07	PF	0.078	0.052	0.025	0.5	0.055	0.028	0.03
Roof	HAE6012A, 380-433MHz	2.15	432.9875	48.0	46.6	CW	E	1.04	PF	0.025	0.028	0.037	0.5	0.031	0.016	0.02
Roof	HAE6013A, 380-470MHz	4.15	380.0125	48.0	47.6	CW	E	1.09	PF	0.036	0.042	0.053	0.5	0.048	0.024	0.02
Roof	HAE6013A, 380-470MHz	4.15	393.0125	48.0	47.6	CW	E	1.11	PF	0.053	0.044	0.042	0.5	0.051	0.026	0.03
Roof	HAE6013A, 380-470MHz	4.15	406.5000	48.0	47.1	CW	E	1.11	PF	0.119	0.075	0.055	0.5	0.092	0.046	0.05
Roof	HAE6013A, 380-470MHz	4.15	422.0125	48.0	47.3	CW	E	1.07	PF	0.074	0.054	0.02	0.5	0.053	0.026	0.03
Roof	HAE6013A, 380-470MHz	4.15	438.0125	48.0	46.7	CW	E	1.03	PF	0.036	0.02	0.036	0.5	0.032	0.016	0.02
Roof	HAE6013A, 380-470MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	PF	0.028	0.07	0.03	0.5	0.043	0.021	0.02
Roof	HAE6013A, 380-470MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	PF	0.037	0.044	0.076	0.5	0.050	0.025	0.03
Roof	HAE6015A, 450-520MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	PF	0.026	0.05	0.032	0.5	0.036	0.018	0.02
Roof	HAE6015A, 450-520MHz	4.15	460.0000	48.0	47	CW	E	0.98	PF	0.04	0.046	0.052	0.5	0.045	0.023	0.02

Notes:

MPE calculations are defined in section 15.0

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Table F.2 (Continued)**APX6500 UHF R1 - MPE measurement data for Passenger**

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.	Passenger/Operator (MC) Positions						
											Head/ Top 1/3	Chest/ Middle 1/3					Lower Trunk/ Bottom 1/3
Roof	HAE6015A, 450-520MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	PF	0.054	0.042	0.063	0.5	0.050	0.025	0.03	
Roof	HAE6016A, 450-512MHz	2.15	450.0125	48.0	46.8	CW	E	1.00	PF	0.025	0.041	0.031	0.5	0.032	0.016	0.02	
Roof	HAE6016A, 450-512MHz	2.15	460.0000	48.0	47	CW	E	0.98	PF	0.035	0.042	0.036	0.5	0.037	0.018	0.02	
Roof	HAE6016A, 450-512MHz	2.15	469.9875	48.0	47.4	CW	E	0.95	PF	0.034	0.037	0.052	0.5	0.039	0.019	0.02	
Roof	HAE6031A, 380-520MHz	4.15	380.0125	48.0	47.6	CW	E	1.09	PF	0.044	0.047	0.066	0.5	0.057	0.029	0.03	
Roof	HAE6031A, 380-520MHz	4.15	393.0125	48.0	47.6	CW	E	1.11	PF	0.056	0.071	0.058	0.5	0.068	0.034	0.03	
Roof	HAE6031A, 380-520MHz	4.15	406.5000	48.0	47.1	CW	E	1.11	PF	0.100	0.090	0.058	0.5	0.092	0.046	0.05	
Roof	HAE6031A, 380-520MHz	4.15	422.0125	48.0	47.3	CW	E	1.07	PF	0.080	0.058	0.030	0.5	0.060	0.030	0.03	
Roof	HAE6031A, 380-520MHz	4.15	438.0125	48.0	46.7	CW	E	1.03	PF	0.032	0.023	0.034	0.5	0.031	0.015	0.02	
Roof	HAE6031A, 380-520MHz	4.15	450.0125	48.0	46.8	CW	E	1.00	PF	0.044	0.072	0.038	0.5	0.051	0.026	0.03	
Roof	HAE6031A, 380-520MHz	4.15	469.9875	48.0	47.4	CW	E	0.95	PF	0.048	0.057	0.077	0.5	0.058	0.029	0.03	
Roof	RAE4014ARB, 445 - 470MHz	7.15	450.0125	48.0	46.8	CW	E	1.00	PF	0.002	0.005	0.003	0.5	0.003	0.002	0.00	
Roof	RAE4014ARB, 445 - 470MHz	7.15	460	48.0	47	CW	E	0.98	PF	0.006	0.007	0.005	0.5	0.006	0.003	0.00	
Roof	RAE4014ARB, 445 - 470MHz	7.15	469.9875	48.0	47.4	CW	E	0.95	PF	0.01	0.011	0.019	0.5	0.013	0.006	0.01	

Notes:

MPE calculations are defined in section 15.0

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Appendix G – MPE Test Results Summary for Companion Device (DVR 700)

Table G.1

Companion Device (DVR 700) - 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	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0000	5.00	4.82	CW	E	1.16	BS1	0.001	0.001	0.002	0.003	0.003	0.004	0.006	0.003	0.006	0.004	1.0	0.003	0.004	0.004
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.0000	5.00	4.79	CW	E	1.16	BS1	0.001	0.001	0.001	0.001	0.003	0.004	0.004	0.003	0.003	0.005	1.0	0.003	0.003	0.003
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	800.0000	5.00	4.86	CW	E	1.17	BS1	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.004	1.0	0.002	0.002	0.002
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0000	5.00	4.88	CW	E	1.16	BS1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.004	0.004	1.0	0.002	0.002	0.002
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0000	5.00	4.82	CW	E	1.16	BS2	0.003	0.002	0.004	0.003	0.006	0.010	0.015	0.015	0.016	0.017	1.0	0.009	0.011	0.011
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.0000	5.00	4.79	CW	E	1.16	BS2	0.002	0.002	0.003	0.004	0.007	0.006	0.014	0.015	0.017	0.017	1.0	0.009	0.010	0.011
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	800.0000	5.00	4.86	CW	E	1.17	BS2	0.001	0.001	0.001	0.002	0.005	0.009	0.008	0.014	0.012	0.012	1.0	0.007	0.008	0.008
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0000	5.00	4.88	CW	E	1.16	BS2	0.001	0.001	0.001	0.003	0.005	0.009	0.010	0.013	0.013	0.009	1.0	0.007	0.008	0.008
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0000	5.00	4.82	CW	E	1.16	BS3	0.002	0.003	0.005	0.006	0.011	0.020	0.020	0.020	0.018	0.017	1.0	0.012	0.014	0.015
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.0000	5.00	4.79	CW	E	1.16	BS3	0.003	0.004	0.007	0.009	0.015	0.016	0.028	0.025	0.025	0.020	1.0	0.015	0.018	0.018
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	800.0000	5.00	4.86	CW	E	1.17	BS3	0.001	0.002	0.003	0.003	0.003	0.006	0.010	0.011	0.013	0.011	1.0	0.006	0.007	0.008
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0000	5.00	4.88	CW	E	1.16	BS3	0.001	0.001	0.002	0.002	0.004	0.006	0.009	0.012	0.011	0.009	1.0	0.006	0.007	0.007

MPE calculations are defined in section 15.0.

Table G.1 (Continued)
Companion Device (DVR 700) - 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	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0000	5.00	4.82	CW	E	1.16	BS4	0.003	0.003	0.007	0.014	0.018	0.027	0.026	0.017	0.015	0.010	1.0	0.014	0.016	0.017
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.0000	5.00	4.79	CW	E	1.16	BS4	0.004	0.004	0.004	0.015	0.023	0.022	0.021	0.022	0.012	0.011	1.0	0.014	0.016	0.017
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	800.0000	5.00	4.86	CW	E	1.17	BS4	0.001	0.002	0.003	0.009	0.012	0.018	0.014	0.011	0.011	0.012	1.0	0.009	0.011	0.011
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0000	5.00	4.88	CW	E	1.16	BS4	0.001	0.002	0.004	0.007	0.008	0.013	0.009	0.011	0.013	0.011	1.0	0.008	0.009	0.009
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0000	5.00	4.82	CW	E	1.16	BS5	0.004	0.004	0.006	0.015	0.021	0.025	0.028	0.023	0.021	0.018	1.0	0.017	0.019	0.020
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.0000	5.00	4.79	CW	E	1.16	BS5	0.005	0.005	0.006	0.012	0.015	0.027	0.026	0.023	0.024	0.022	1.0	0.017	0.019	0.020
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	800.0000	5.00	4.86	CW	E	1.17	BS5	0.002	0.002	0.002	0.006	0.007	0.009	0.006	0.008	0.009	0.015	1.0	0.007	0.008	0.008
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0000	5.00	4.88	CW	E	1.16	BS5	0.001	0.002	0.002	0.006	0.008	0.009	0.007	0.008	0.009	0.009	1.0	0.006	0.007	0.007

MPE calculations are defined in section 15.0.

Table G.2
Companion Device (DVR 700) - 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				
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0000	5.00	4.82	CW	E	1.16	PB	0.049	0.018	0.020	1.0	0.029	0.034	0.035
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.0000	5.00	4.79	CW	E	1.16	PB	0.044	0.024	0.026	1.0	0.031	0.036	0.038
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	800.0000	5.00	4.86	CW	E	1.17	PB	0.015	0.016	0.024	1.0	0.018	0.021	0.022
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0000	5.00	4.88	CW	E	1.16	PB	0.023	0.018	0.011	1.0	0.017	0.020	0.021
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0000	5.00	4.82	CW	E	1.16	PF	0.017	0.027	0.011	1.0	0.018	0.021	0.022
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.0000	5.00	4.79	CW	E	1.16	PF	0.024	0.037	0.017	1.0	0.026	0.030	0.031
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	800.0000	5.00	4.86	CW	E	1.17	PF	0.013	0.012	0.007	1.0	0.011	0.012	0.013
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0000	5.00	4.88	CW	E	1.16	PF	0.011	0.011	0.006	1.0	0.009	0.011	0.011

MPE calculations are defined in section 15.0.