



CERTIFICATE 2518.05

DECLARATION OF COMPLIANCE: MPE ASSESSMENT Report Part 2 of 2

Motorola Solutions Inc. EME Test Laboratory

Motorola Solutions Malaysia Sdn Bhd
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Date of Report: 03/02/2020
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; 04/12/2019
DUT Description: **APX6500 UHF R1:** Multiple HW Encryption WiFi Interoperability Data Modem Tethering via WiFi or Cable
Companion Device: DVR UHF (380-512 MHz), Digital Vehicular Repeater
Test TX mode(s): CW
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: 10W (DVR UHF)
TX Frequency Bands: **APX6500 UHF R1:** 380-470 MHz; WLAN 2412-2462 MHz; WLAN 5180-5825 MHz; BT 2402-2480 MHz
Companion Device: 380-512 MHz
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 UHF (DQPM DVR4000P, DQPM DVR5000P, DQPM DVR6000P)
Model(s) Certified: M22QSS9PW1BN (PMUE5620A), M24QSS9PW1BN (PMUE5620A), M25QSS9PW1BN (PMUE5620A), M36QSS9PW1BN (PMUE5620A), M25QSS9PW1BNI (PMUE5620A), DQPM DVR4000P, DQPM DVR5000P, DQPM DVR6000P
Serial Number(s): 471TVZ0903 (APX6500 UHF R1) ; 16102684, 16030465, 16102751 (DVR UHF)
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-DVRSUHF (406.1-512 MHz)
IC: **APX6500 UHF R1:** 109U-92FT7129
Companion Device: 2098B-DVRSUHF
This report contains results that are immaterial for FCC equipment approval, which are clearly identified.
This report contains results that are immaterial for ISSED 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.

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- 433MHz)	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- 433MHz)	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- 433MHz)	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- 470MHz)	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- 520MHz)	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- 512MHz)	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	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	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- 433MHz)	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- 433MHz)	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- 433MHz)	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- 470MHz)	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- 520MHz)	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- 512MHz)	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/cm^2)

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.

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	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 UHF)

Table E.1**MPE assessment for DVR UHF - 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	HAE6012A, 1/4 Wave (380-433MHz)	10.0	9.68	406.5000	0.005	0.27	1.9	0.16	3.3
						9.90	417.5000	0.006	0.28	2.1	0.16	3.6
						9.60	429.9875	0.007	0.29	2.5	0.17	4.4
Trunk	BS2	E	15	HAE6012A, 1/4 Wave (380-433MHz)	10.0	9.68	406.5000	0.016	0.27	5.8	0.16	9.8
						9.90	417.5000	0.015	0.28	5.4	0.16	9.2
						9.60	429.9875	0.015	0.29	5.2	0.17	9.0
Trunk	BS3	E	15	HAE6012A, 1/4 Wave (380-433MHz)	10.0	9.68	406.5000	0.021	0.27	7.9	0.16	13.5
						9.90	417.5000	0.021	0.28	7.4	0.16	12.8
						9.60	429.9875	0.026	0.29	9.0	0.17	15.6
Trunk	BS4	E	15	HAE6012A, 1/4 Wave (380-433MHz)	10.0	9.68	406.5000	0.041	0.27	15.2	0.16	25.9
						9.90	417.5000	0.039	0.28	14.0	0.16	24.2
						9.60	429.9875	0.035	0.29	12.4	0.17	21.4
Trunk	BS5	E	15	HAE6012A, 1/4 Wave (380-433MHz)	10.0	9.68	406.5000	0.036	0.27	13.2	0.16	22.5
						9.90	417.5000	0.026	0.28	9.3	0.16	16.0
						9.60	429.9875	0.023	0.29	8.1	0.17	14.1
Trunk	BS1	E	16	HAE4003A, 1/4 Wave (450-470MHz)	10.0	9.96	450.0000	0.005	0.30	1.6	0.17	2.8
						9.90	460.0000	0.004	0.31	1.2	0.17	2.2
						10.00	470.0000	0.003	0.31	0.9	0.18	1.5
Trunk	BS2	E	16	HAE4003A, 1/4 Wave (450-470MHz)	10.0	9.96	450.0000	0.006	0.30	2.1	0.17	3.8
						9.90	460.0000	0.007	0.31	2.3	0.17	4.0
						10.00	470.0000	0.006	0.31	2.0	0.18	3.6
Trunk	BS3	E	16	HAE4003A, 1/4 Wave (450-470MHz)	10.0	9.96	450.0000	0.014	0.30	4.6	0.17	8.1
						9.90	460.0000	0.013	0.31	4.3	0.17	7.6
						10.00	470.0000	0.014	0.31	4.3	0.18	7.7
Trunk	BS4	E	16	HAE4003A, 1/4 Wave (450-470MHz)	10.0	9.96	450.0000	0.022	0.30	7.5	0.17	13.1
						9.90	460.0000	0.018	0.31	5.9	0.17	10.5
						10.00	470.0000	0.019	0.31	6.1	0.18	10.9

Note:

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

Table E.1 (Continued)**MPE assessment for DVR UHF - 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	BS5	E	16	HAE4003A, 1/4 Wave (450-470MHz)	10.0	9.96	450.0000	0.014	0.30	4.6	0.17	8.1
						9.90	460.0000	0.013	0.31	4.3	0.17	7.7
						10.00	470.0000	0.014	0.31	4.6	0.18	8.1
Trunk	BS1	E	17	HAE4004A, 1/4 Wave (470-512MHz)	10.0	10.00	470.0000	0.003	0.31	0.9	0.18	1.6
						9.61	484.0000	0.003	0.32	0.9	NA	NA
						9.83	498.0000	0.003	0.33	0.8	NA	NA
						9.75	512.0000	0.004	0.34	1.0	NA	NA
Trunk	BS2	E	17	HAE4004A, 1/4 Wave (470-512MHz)	10.0	10.00	470.0000	0.005	0.31	1.7	0.18	3.1
						9.61	484.0000	0.007	0.32	2.3	NA	NA
						9.83	498.0000	0.009	0.33	2.6	NA	NA
						9.75	512.0000	0.012	0.34	3.6	NA	NA
Trunk	BS3	E	17	HAE4004A, 1/4 Wave (470-512MHz)	10.0	10.00	470.0000	0.013	0.31	4.2	0.18	7.5
						9.61	484.0000	0.014	0.32	4.4	NA	NA
						9.83	498.0000	0.012	0.33	3.8	NA	NA
						9.75	512.0000	0.012	0.34	3.6	NA	NA
Trunk	BS4	E	17	HAE4004A, 1/4 Wave (470-512MHz)	10.0	10.00	470.0000	0.017	0.31	5.5	0.18	9.7
						9.61	484.0000	0.019	0.32	5.9	NA	NA
						9.83	498.0000	0.018	0.33	5.4	NA	NA
						9.75	512.0000	0.018	0.34	5.3	NA	NA
Trunk	BS5	E	17	HAE4004A, 1/4 Wave (470-512MHz)	10.0	10.00	470.0000	0.016	0.31	5.0	0.18	9.0
						9.61	484.0000	0.018	0.32	5.6	NA	NA
						9.83	498.0000	0.016	0.33	4.8	NA	NA
						9.75	512.0000	0.015	0.34	4.3	NA	NA

Note:

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

Table E.2**MPE assessment for DVR UHF– 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	HAE6012A, 1/4 Wave (380-433MHz)	10.0	9.68	406.5000	0.104	0.27	38.4	0.16	65.4
						9.90	417.5000	0.092	0.28	32.9	0.16	56.6
						9.60	429.9875	0.065	0.29	22.5	0.17	39.1
Trunk	PF	E	15	HAE6012A, 1/4 Wave (380-433MHz)	10.0	9.68	406.5000	0.044	0.27	16.1	0.16	27.5
						9.90	417.5000	0.028	0.28	10.2	0.16	17.5
						9.60	429.9875	0.035	0.29	12.2	0.17	21.2
Trunk	PB	E	16	HAE4003A, 1/4 Wave (450-470MHz)	10.0	9.96	450.0000	0.153	0.30	51.1	0.17	90.0
						9.90	460.0000	0.163	0.31	53.0	0.17	94.1
						10.00	470.0000	0.121	0.31	38.5	0.18	68.7
Trunk	PF	E	16	HAE4003A, 1/4 Wave (450-470MHz)	10.0	9.96	450.0000	0.038	0.30	12.5	0.17	22.0
						9.90	460.0000	0.043	0.31	14.0	0.17	24.9
						10.00	470.0000	0.039	0.31	12.5	0.18	22.3
Trunk	PB	E	17	HAE4004A, 1/4 Wave (470-512MHz)	10.0	10.00	470.0000	0.136	0.31	43.3	0.18	77.2
						9.61	484.0000	0.158	0.32	49.0	NA	NA
						9.83	498.0000	0.095	0.33	28.6	NA	NA
						9.75	512.0000	0.144	0.34	42.1	NA	NA
Trunk	PF	E	17	HAE4004A, 1/4 Wave (470-512MHz)	10.0	10.00	470.0000	0.031	0.31	9.7	0.18	17.4
						9.61	484.0000	0.028	0.32	8.7	NA	NA
						9.83	498.0000	0.033	0.33	10.0	NA	NA
						9.75	512.0000	0.037	0.34	10.8	NA	NA

Note:

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

Table E.3
DVR UHF MPE Results for FCC

Pmax (W)	10	Pinitial (W)	9.68	9.90	9.60	9.96	9.90	10.00	9.61	9.83	9.75
		FCCLimit (mW/cm^2)	0.27	0.28	0.29	0.30	0.31	0.31	0.32	0.33	0.34

Table	Test Post.	Angle	Trunk / Roof	E/H Field	Antenna No.	f3	f4	f5	f6	f7	f8	f9	f10	f11
						406.5000	417.5000	429.9875	450.0000	460.0000	470.0000	484.0000	498.0000	512.0000
E.1	BS1		Trunk	E	15	0.005	0.006	0.007						
E.1	BS2		Trunk	E	15	0.016	0.015	0.015						
E.1	BS3		Trunk	E	15	0.021	0.021	0.026						
E.1	BS4		Trunk	E	15	0.041	0.039	0.035						
E.1	BS5		Trunk	E	15	0.036	0.026	0.023						
E.1	BS1		Trunk	E	16				0.005	0.004	0.003			
E.1	BS2		Trunk	E	16				0.006	0.007	0.006			
E.1	BS3		Trunk	E	16				0.014	0.013	0.014			
E.1	BS4		Trunk	E	16				0.022	0.018	0.019			
E.1	BS5		Trunk	E	16				0.014	0.013	0.014			
E.1	BS1		Trunk	E	17						0.003	0.003	0.003	0.004
E.1	BS2		Trunk	E	17						0.005	0.007	0.009	0.012
E.1	BS3		Trunk	E	17						0.013	0.014	0.012	0.012
E.1	BS4		Trunk	E	17						0.017	0.019	0.018	0.018
E.1	BS5		Trunk	E	17						0.016	0.018	0.016	0.015
E.2	PB		Trunk	E	15	0.104	0.092	0.065						
E.2	PF		Trunk	E	15	0.044	0.055	0.035						
E.2	PB		Trunk	E	16				0.153	0.163	0.121			
E.2	PF		Trunk	E	16				0.038	0.043	0.039			
E.2	PB		Trunk	E	17						0.136	0.158	0.095	0.144
E.2	PF		Trunk	E	17						0.031	0.028	0.033	0.037

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/cm ²)	Calc. P.D. (mW/cm ²)	Max Calc. P.D. (mW/cm ²)
										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					200 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.		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	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			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	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

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	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.		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	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

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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	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.		Test Pos.	MPE Measurements Passenger/Operator (MC) Positions			DUT Max. TX Factor	Avg. over Body (mW/ cm ²)	Calc. P.D. (mW/ cm ²)	Max Calc. P.D. (mW/ cm ²)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor								
										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 UHF)

Table G.1

DVR UHF - MPE measurement data for Bystander

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

MPE calculations are defined in section 15.0.

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

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements									DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)	
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm					200 cm
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	10.00	9.68	CW	E	0.99	BS5	0.022	0.022	0.022	0.023	0.026	0.033	0.050	0.060	0.051	0.041	1.0	0.035	0.03	0.036
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	417.5000	10.00	9.90	CW	E	0.99	BS5	0.014	0.016	0.017	0.017	0.021	0.023	0.033	0.033	0.039	0.046	1.0	0.026	0.03	0.026
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	429.9875	10.00	9.60	CW	E	1.00	BS5	0.016	0.014	0.014	0.014	0.017	0.025	0.027	0.032	0.029	0.036	1.0	0.022	0.02	0.023
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0000	10.00	9.96	CW	E	1.02	BS1	0.002	0.004	0.004	0.006	0.008	0.011	0.012	0.016	0.014	0.016	1.0	0.009	0.01	0.010
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	10.00	9.90	CW	E	1.03	BS1	0.001	0.003	0.003	0.004	0.007	0.01	0.012	0.011	0.011	0.01	1.0	0.007	0.01	0.007
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS1	0.002	0.002	0.002	0.002	0.004	0.007	0.008	0.01	0.006	0.009	1.0	0.005	0.01	0.005
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0000	10.00	9.96	CW	E	1.02	BS2	0.002	0.005	0.006	0.006	0.009	0.013	0.018	0.021	0.022	0.023	1.0	0.013	0.01	0.013
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	10.00	9.90	CW	E	1.03	BS2	0.002	0.003	0.005	0.005	0.01	0.015	0.021	0.022	0.024	0.027	1.0	0.013	0.01	0.014
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS2	0.002	0.003	0.003	0.004	0.009	0.015	0.019	0.018	0.02	0.027	1.0	0.012	0.01	0.012
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0000	10.00	9.96	CW	E	1.02	BS3	0.009	0.01	0.014	0.022	0.027	0.035	0.037	0.039	0.04	0.038	1.0	0.027	0.03	0.028
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	10.00	9.90	CW	E	1.03	BS3	0.009	0.009	0.013	0.018	0.024	0.032	0.033	0.033	0.044	0.038	1.0	0.025	0.03	0.026
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS3	0.007	0.007	0.012	0.017	0.022	0.035	0.045	0.047	0.04	0.028	1.0	0.026	0.03	0.027

MPE calculations are defined in section 15.0.

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

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/ 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
Trunk	HAE4003A, 1/4 Wave (450- 470MHz)	2.15	450.0000	10.00	9.96	CW	E	1.02	BS4	0.014	0.017	0.023	0.031	0.04	0.047	0.053	0.073	0.078	0.061	1.0	0.044	0.045	0.045	
Trunk	HAE4003A, 1/4 Wave (450- 470MHz)	2.15	460.0000	10.00	9.90	CW	E	1.03	BS4	0.01	0.013	0.015	0.021	0.025	0.035	0.05	0.062	0.062	0.057	1.0	0.035	0.04	0.036	
Trunk	HAE4003A, 1/4 Wave (450- 470MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS4	0.013	0.015	0.02	0.027	0.027	0.036	0.047	0.064	0.059	0.059	1.0	0.037	0.04	0.038	
Trunk	HAE4003A, 1/4 Wave (450- 470MHz)	2.15	450.0000	10.00	9.96	CW	E	1.02	BS5	0.015	0.012	0.012	0.018	0.028	0.038	0.033	0.039	0.041	0.032	1.0	0.027	0.03	0.027	
Trunk	HAE4003A, 1/4 Wave (450- 470MHz)	2.15	460.0000	10.00	9.90	CW	E	1.03	BS5	0.01	0.009	0.009	0.016	0.024	0.04	0.041	0.039	0.037	0.031	1.0	0.026	0.03	0.027	
Trunk	HAE4003A, 1/4 Wave (450- 470MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS5	0.009	0.009	0.012	0.02	0.036	0.041	0.044	0.045	0.03	0.029	1.0	0.028	0.03	0.029	
Trunk	HAE4004A, 1/4 Wave (470- 512MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS1	0.001	0.002	0.001	0.002	0.004	0.006	0.008	0.011	0.009	0.011	1.0	0.006	0.01	0.006	
Trunk	HAE4004A, 1/4 Wave (470- 512MHz)	2.15	484.0000	10.00	9.61	CW	E	1.05	BS1	0.002	0.002	0.001	0.003	0.005	0.006	0.008	0.009	0.009	0.011	1.0	0.006	0.01	0.006	
Trunk	HAE4004A, 1/4 Wave (470- 512MHz)	2.15	498.0000	10.00	9.83	CW	E	1.06	BS1	0.002	0.002	0.002	0.002	0.003	0.003	0.006	0.007	0.01	0.011	1.0	0.005	0.01	0.005	
Trunk	HAE4004A, 1/4 Wave (470- 512MHz)	2.15	512.0000	10.00	9.75	CW	E	1.06	BS1	0.004	0.004	0.004	0.005	0.004	0.005	0.007	0.008	0.009	0.015	1.0	0.007	0.01	0.007	

MPE calculations are defined in section 15.0.

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

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/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	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS2	0.002	0.003	0.003	0.004	0.007	0.01	0.014	0.017	0.019	0.024	1.0	0.010	0.01	0.011
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	484.0000	10.00	9.61	CW	E	1.05	BS2	0.004	0.005	0.005	0.007	0.009	0.015	0.017	0.018	0.022	0.033	1.0	0.014	0.01	0.015
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	498.0000	10.00	9.83	CW	E	1.06	BS2	0.003	0.003	0.006	0.01	0.012	0.014	0.019	0.027	0.034	0.035	1.0	0.016	0.02	0.018
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	512.0000	10.00	9.75	CW	E	1.06	BS2	0.004	0.006	0.009	0.014	0.019	0.024	0.034	0.039	0.04	0.036	1.0	0.023	0.02	0.024
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS3	0.007	0.007	0.012	0.016	0.025	0.033	0.041	0.044	0.039	0.029	1.0	0.025	0.03	0.026
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	484.0000	10.00	9.61	CW	E	1.05	BS3	0.007	0.008	0.012	0.019	0.029	0.029	0.033	0.042	0.042	0.036	1.0	0.026	0.03	0.028
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	498.0000	10.00	9.83	CW	E	1.06	BS3	0.007	0.007	0.011	0.015	0.021	0.028	0.037	0.037	0.041	0.027	1.0	0.023	0.02	0.025
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	512.0000	10.00	9.75	CW	E	1.06	BS3	0.01	0.01	0.011	0.015	0.023	0.028	0.031	0.031	0.035	0.034	1.0	0.023	0.02	0.025
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS4	0.011	0.013	0.017	0.024	0.027	0.036	0.042	0.056	0.054	0.049	1.0	0.033	0.03	0.034
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	484.0000	10.00	9.61	CW	E	1.05	BS4	0.014	0.014	0.015	0.02	0.028	0.04	0.054	0.056	0.055	0.05	1.0	0.035	0.04	0.038
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	498.0000	10.00	9.83	CW	E	1.06	BS4	0.015	0.013	0.017	0.019	0.024	0.033	0.051	0.061	0.054	0.043	1.0	0.033	0.03	0.036
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	512.0000	10.00	9.75	CW	E	1.06	BS4	0.013	0.01	0.015	0.02	0.028	0.044	0.05	0.056	0.053	0.045	1.0	0.033	0.04	0.036

MPE calculations are defined in section 15.0.

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

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/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	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS5	0.009	0.009	0.013	0.022	0.031	0.047	0.049	0.054	0.036	0.033	1.0	0.030	0.03	0.032
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	484.0000	10.00	9.61	CW	E	1.05	BS5	0.011	0.01	0.017	0.025	0.03	0.04	0.053	0.046	0.059	0.04	1.0	0.033	0.03	0.036
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	498.0000	10.00	9.83	CW	E	1.06	BS5	0.011	0.009	0.013	0.013	0.027	0.037	0.043	0.056	0.052	0.037	1.0	0.030	0.03	0.032
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	512.0000	10.00	9.75	CW	E	1.06	BS5	0.009	0.009	0.012	0.016	0.025	0.028	0.04	0.049	0.045	0.039	1.0	0.027	0.03	0.030

MPE calculations are defined in section 15.0.

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

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/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	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	10.00	9.68	CW	E	0.99	PB	0.059	0.154	0.092	1.0	0.102	0.10	0.104
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	417.5000	10.00	9.90	CW	E	0.99	PB	0.081	0.096	0.098	1.0	0.092	0.09	0.092
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	429.9875	10.00	9.60	CW	E	1.00	PB	0.081	0.036	0.069	1.0	0.062	0.06	0.065
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	10.00	9.68	CW	E	0.99	PF	0.051	0.062	0.015	1.0	0.043	0.04	0.044
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	417.5000	10.00	9.90	CW	E	0.99	PF	0.031	0.047	0.007	1.0	0.028	0.03	0.028
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	429.9875	10.00	9.60	CW	E	1.00	PF	0.033	0.045	0.023	1.0	0.034	0.03	0.035
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0000	10.00	9.96	CW	E	1.02	PB	0.177	0.094	0.178	1.0	0.150	0.15	0.153
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	10.00	9.90	CW	E	1.03	PB	0.187	0.138	0.144	1.0	0.156	0.161	0.163
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	PB	0.157	0.097	0.094	1.0	0.116	0.12	0.121

MPE calculations are defined in section 15.0.

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

D.U.T. Info.							Probe Info.			MPE Measurements				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
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0000	10.00	9.96	CW	E	1.02	PF	0.036	0.037	0.037	1.0	0.037	0.04	0.038	
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	10.00	9.90	CW	E	1.03	PF	0.042	0.043	0.039	1.0	0.041	0.04	0.043	
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	PF	0.03	0.046	0.037	1.0	0.038	0.04	0.039	
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	PB	0.175	0.098	0.118	1.0	0.130	0.14	0.136	
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	484.0000	10.00	9.61	CW	E	1.05	PB	0.219	0.075	0.14	1.0	0.145	0.15	0.158	
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	498.0000	10.00	9.83	CW	E	1.06	PB	0.126	0.076	0.062	1.0	0.088	0.09	0.095	
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	512.0000	10.00	9.75	CW	E	1.06	PB	0.127	0.16	0.11	1.0	0.132	0.14	0.144	
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	PF	0.021	0.029	0.038	1.0	0.029	0.03	0.031	
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	484.0000	10.00	9.61	CW	E	1.05	PF	0.023	0.034	0.020	1.0	0.026	0.03	0.028	
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	498.0000	10.00	9.83	CW	E	1.06	PF	0.031	0.033	0.028	1.0	0.031	0.03	0.033	
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	512.0000	10.00	9.75	CW	E	1.06	PF	0.022	0.025	0.055	1.0	0.034	0.04	0.037	

MPE calculations are defined in section 15.0.