MOTOROLA SOLUTIONS

MS ISO/IEC 17025 TESTING SAMM No. 0826

ACCREDITED CERTIFICATE 2518.05

DECLARATION OF COMPLIANCE: MPE ASSESSMENT Part 2 of 2

Motorola Solutions Inc.
EME Test Laboratory
Motorola Solutions Malaysia Sdn Bhd
Plot 2A, Medan Bayan Lepas,
Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.

Date of Report: 01/13/2020
Report Revision: B

Responsible Engineer:	Saw Sun Hock (EME Engineer)
Report author:	Saw Sun Hock (EME Engineer)
Date(s) Tested:	2/17/2017-3/17/2017; 11/26/2019-11/29/2019, 12/2/2019-12/3/2019, 12/9/2019,12/10/2019-12/13/2019,12/16/2019-12/17/2019
Manufacturer:	Futurecom Systems Group
Date submitted for test:	01/13/2017; 11/26/2019
DUT Description:	DVR VHF (136-174 MHz), Digital Vehicular Repeater Companion Mobile: APX4500 VHF
Test TX mode(s):	CW
Max. Power output:	**DVR:** 6W (100% duty cycle) **Companion Mobile:** 60W (50% duty cycle)
TX Frequency Bands:	**DVR:** 136-174 MHz **Companion Mobile:** 136-174 MHz
Signaling type:	FM, TDMA
Model(s) Tested:	**DVR:** MOBEXCOM DVRS VHF (DQPMDVR3000P) **Companion Mobile**: M22KSS9PW1AN (MUD3222C)
Model(s) Certified:	MOBEXCOM DVRS VHF (DQPMDVR3000P)
Serial Number(s):	16082232 (DVR) , WKE0NK03JZ (Companion Mobile)
Classification:	Occupational/Controlled Environment
FCC ID:	**DVR**: LO6-DVRSVHF (150.8-173.4 MHz) **Companion Mobile**: FCC ID: AZ492FT3826 (150.8-173.4 MHz) This report contains results that are immaterial for FCC equipment approval, which are clearly identified.
IC:	**DVR**: 2098B-DVRSVHF (138-144, 148-174) **Companion Mobile**: 109U-92FT3826 (138-144, 148-174) This report contains results that are immaterial for ISED Canada equipment approval, which are clearly identified.

The MPE results clearly demonstrate compliance with FCC Occupational/Controlled RF Exposure limits. FCC rules require compliance for Passengers and Bystanders to the FCC General Population/Uncontrolled limits. The test results clearly demonstrate compliance with ICNIRP Guidelines for limiting exposure in time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz).

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
Digitally signed by Tiong Nguk Ing
Date: 2020.01.13 22:43:56 +08'00'

Tiong Nguk Ing
Deputy Technical Manager (Approved Signatory)
Approval Date: 1/13/2020

Appendix D – MPE Test Results Summary for DVR VHF

Table D.1

MPE assessment for DVR VHF - trunk 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
Trunk	BS1	E	1	HAD4006A, 1/4 Wave (136-144MHz)	6.0	5.82	140.0000	0.013	0.20	6.5	0.13	10.1
						5.83	144.0000	0.012	0.20	6.1	0.13	9.5
Trunk	BS1	H	1	HAD4006A, 1/4 Wave (136-144MHz)	6.0	5.82	140.0000	0.012	0.20	5.8	0.13	9.0
						5.83	144.0000	0.010	0.20	5.1	0.13	7.9
Trunk	BS2	E	1	HAD4006A, 1/4 Wave (136-144MHz)	6.0	5.82	140.0000	0.020	0.20	10.0	0.13	15.5
						5.83	144.0000	0.015	0.20	7.3	0.13	11.4
Trunk	BS2	H	1	HAD4006A, 1/4 Wave (136-144MHz)	6.0	5.82	140.0000	0.019	0.20	9.6	0.13	14.8
						5.83	144.0000	0.019	0.20	9.5	0.13	14.8
Trunk	BS3	E	1	HAD4006A, 1/4 Wave (136-144MHz)	6.0	5.82	140.0000	0.029	0.20	14.7	0.13	22.8
						5.83	144.0000	0.026	0.20	13.2	0.13	20.4
Trunk	BS3	H	1	HAD4006A, 1/4 Wave (136-144MHz)	6.0	5.82	140.0000	0.023	0.20	11.6	0.13	18.0
						5.83	144.0000	0.015	0.20	7.6	0.13	11.8
Trunk	BS4	E	1	HAD4006A, 1/4 Wave (136-144MHz)	6.0	5.82	140.0000	0.027	0.20	13.7	0.13	21.3
						5.83	144.0000	0.025	0.20	12.5	0.13	19.4
Trunk	BS4	H	1	HAD4006A, 1/4 Wave (136-144MHz)	6.0	5.82	140.0000	0.022	0.20	11.1	0.13	17.1
						5.83	144.0000	0.017	0.20	8.6	0.13	13.3
Trunk	BS5	E	1	HAD4006A, 1/4 Wave (136-144MHz)	6.0	5.82	140.0000	0.019	0.20	9.7	0.13	15.1
						5.83	144.0000	0.021	0.20	10.4	0.13	16.2
Trunk	BS5	H	1	HAD4006A, 1/4 Wave (136-144MHz)	6.0	5.82	140.0000	0.018	0.20	9.1	0.13	14.1
						5.83	144.0000	0.019	0.20	9.3	0.13	14.3
Trunk	BS1	E	2	HAD4007A, 1/4 Wave (144-150.8MHz)	6.0	5.83	144.0000	0.015	0.20	7.5	0.13	11.6
						5.81	150.8000	0.006	0.20	3.1	0.13	4.7
Trunk	BS1	H	2	HAD4007A, 1/4 Wave (144-150.8MHz)	6.0	5.83	144.0000	0.010	0.20	5.1	0.13	7.9
						5.81	150.8000	0.012	0.20	5.9	0.13	9.1
Trunk	BS2	E	2	HAD4007A, 1/4 Wave (144-150.8MHz)	6.0	5.83	144.0000	0.017	0.20	8.5	0.13	13.1
						5.81	150.8000	0.012	0.20	5.8	0.13	9.0

Table D.1 (Continued)

MPE assessment for DVR VHF - trunk 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
Trunk	BS2	H	2	HAD4007A, 1/4 Wave (144-150.8MHz)	6.0	5.83	144.0000	0.018	0.20	8.8	0.13	13.7
						5.81	150.8000	0.015	0.20	7.3	0.13	11.4
Trunk	BS3	E	2	HAD4007A, 1/4 Wave (144-150.8MHz)	6.0	5.83	144.0000	0.028	0.20	13.9	0.13	21.5
						5.81	150.8000	0.029	0.20	14.7	0.13	22.8
Trunk	BS3	H	2	HAD4007A, 1/4 Wave (144-150.8MHz)	6.0	5.83	144.0000	0.016	0.20	8.0	0.13	12.3
						5.81	150.8000	0.024	0.20	11.8	0.13	18.3
Trunk	BS4	E	2	HAD4007A, 1/4 Wave (144-150.8MHz)	6.0	5.83	144.0000	0.027	0.20	13.5	0.13	20.9
						5.81	150.8000	0.034	0.20	17.1	0.13	26.5
Trunk	BS4	H	2	HAD4007A, 1/4 Wave (144-150.8MHz)	6.0	5.83	144.0000	0.017	0.20	8.5	0.13	13.2
						5.81	150.8000	0.027	0.20	13.4	0.13	20.8
Trunk	BS5	E	2	HAD4007A, 1/4 Wave (144-150.8MHz)	6.0	5.83	144.0000	0.022	0.20	11.0	0.13	17.0
						5.81	150.8000	0.015	0.20	7.6	0.13	11.7
Trunk	BS5	H	2	HAD4007A, 1/4 Wave (144-150.8MHz)	6.0	5.83	144.0000	0.019	0.20	9.4	0.13	14.6
						5.81	150.8000	0.019	0.20	9.7	0.13	15.1
Trunk	BS1	E	3	HAD4008A, 1/4 Wave (150.8-162MHz)	6.0	5.81	150.8000	0.007	0.20	3.4	0.13	5.2
						5.92	156.4000	0.005	0.20	2.6	0.13	4.0
						5.88	162.0000	0.005	0.20	2.3	0.13	3.5
Trunk	BS1	H	3	HAD4008A, 1/4 Wave (150.8-162MHz)	6.0	5.81	150.8000	0.012	0.20	6.0	0.13	9.3
						5.92	156.4000	0.011	0.20	5.3	0.13	8.2
						5.88	162.0000	0.013	0.20	6.4	0.13	9.9
Trunk	BS2	E	3	HAD4008A, 1/4 Wave (150.8-162MHz)	6.0	5.81	150.8000	0.011	0.20	5.6	0.13	8.6
						5.92	156.4000	0.016	0.20	8.2	0.13	12.7
						5.88	162.0000	0.022	0.20	10.9	0.13	16.8
Trunk	BS2	H	3	HAD4008A, 1/4 Wave (150.8-162MHz)	6.0	5.81	150.8000	0.013	0.20	6.7	0.13	10.5
						5.92	156.4000	0.015	0.20	7.5	0.13	11.6
						5.88	162.0000	0.017	0.20	8.7	0.13	13.6

Table D.1 (Continued)

MPE assessment for DVR VHF - trunk mounted antenna – Bystander

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

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Trunk	BS3	E	3	HAD4008A, 1/4 Wave (150.8-162MHz)	6.0	5.81	150.8000	0.027	0.20	13.4	0.13	20.8
						5.92	156.4000	0.035	0.20	17.3	0.13	26.8
						5.88	162.0000	0.042	0.20	**21.0**	0.13	**32.5**
Trunk	BS3	H	3	HAD4008A, 1/4 Wave (150.8-162MHz)	6.0	5.81	150.8000	0.021	0.20	10.6	0.13	16.4
						5.92	156.4000	0.016	0.20	8.2	0.13	12.7
						5.88	162.0000	0.027	0.20	13.7	0.13	21.2
Trunk	BS4	E	3	HAD4008A, 1/4 Wave (150.8-162MHz)	6.0	5.81	150.8000	0.030	0.20	15.1	0.13	23.3
						5.92	156.4000	0.028	0.20	13.8	0.13	21.4
						5.88	162.0000	0.041	0.20	20.5	0.13	31.7
Trunk	BS4	H	3	HAD4008A, 1/4 Wave (150.8-162MHz)	6.0	5.81	150.8000	0.027	0.20	13.4	0.13	20.8
						5.92	156.4000	0.023	0.20	11.5	0.13	17.8
						5.88	162.0000	0.029	0.20	14.7	0.13	22.7
Trunk	BS5	E	3	HAD4008A, 1/4 Wave (150.8-162MHz)	6.0	5.81	150.8000	0.014	0.20	6.9	0.13	10.7
						5.92	156.4000	0.020	0.20	9.8	0.13	15.2
						5.88	162.0000	0.020	0.20	10.0	0.13	15.6
Trunk	BS5	H	3	HAD4008A, 1/4 Wave (150.8-162MHz)	6.0	5.81	150.8000	0.019	0.20	9.5	0.13	14.7
						5.92	156.4000	0.021	0.20	10.7	0.13	16.6
						5.88	162.0000	0.022	0.20	10.9	0.13	16.9
Trunk	BS1	E	4	HAD4009A, 1/4 Wave (162-174MHz)	6.0	5.88	162.0000	0.005	0.20	2.5	0.13	3.9
						5.95	167.7000	0.004	0.20	1.8	0.13	2.8
						5.91	173.4000	0.007	0.20	3.4	0.13	5.2
Trunk	BS1	H	4	HAD4009A, 1/4 Wave (162-174MHz)	6.0	5.88	162.0000	0.010	0.20	5.1	0.13	7.9
						5.95	167.7000	0.010	0.20	5.2	0.13	8.0
						5.91	173.4000	0.011	0.20	5.5	0.13	8.5
Trunk	BS2	E	4	HAD4009A, 1/4 Wave (162-174MHz)	6.0	5.88	162.0000	0.015	0.20	7.4	0.13	11.4
						5.95	167.7000	0.019	0.20	9.4	0.13	14.6
						5.91	173.4000	0.014	0.20	6.8	0.13	10.5

Table D.1 (Continued)

MPE assessment for DVR VHF - 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	BS2	H	4	HAD4009A, 1/4 Wave (162-174MHz)	6.0	5.88	162.0000	0.015	0.20	7.5	0.13	11.6
						5.95	167.7000	0.013	0.20	6.4	0.13	9.9
						5.91	173.4000	0.013	0.20	6.5	0.13	10.1
Trunk	BS3	E	4	HAD4009A, 1/4 Wave (162-174MHz)	6.0	5.88	162.0000	0.029	0.20	14.7	0.13	22.8
						5.95	167.7000	0.040	0.20	19.9	0.13	30.8
						5.91	173.4000	0.033	0.20	16.3	0.13	25.2
Trunk	BS3	H	4	HAD4009A, 1/4 Wave (162-174MHz)	6.0	5.88	162.0000	0.020	0.20	9.9	0.13	15.4
						5.95	167.7000	0.027	0.20	13.5	0.13	21.0
						5.91	173.4000	0.026	0.20	13.0	0.13	20.1
Trunk	BS4	E	4	HAD4009A, 1/4 Wave (162-174MHz)	6.0	5.88	162.0000	0.029	0.20	14.3	0.13	22.2
						5.95	167.7000	0.041	0.20	20.3	0.13	31.4
						5.91	173.4000	0.034	0.20	17.0	0.13	26.3
Trunk	BS4	H	4	HAD4009A, 1/4 Wave (162-174MHz)	6.0	5.88	162.0000	0.020	0.20	10.2	0.13	15.8
						5.95	167.7000	0.031	0.20	15.4	0.13	23.9
						5.91	173.4000	0.031	0.20	15.5	0.13	24.0
Trunk	BS5	E	4	HAD4009A, 1/4 Wave (162-174MHz)	6.0	5.88	162.0000	0.014	0.20	7.0	0.13	10.9
						5.95	167.7000	0.020	0.20	10.2	0.13	15.8
						5.91	173.4000	0.012	0.20	6.2	0.13	9.6
Trunk	BS5	H	4	HAD4009A, 1/4 Wave (162-174MHz)	6.0	5.88	162.0000	0.017	0.20	8.3	0.13	12.8
						5.95	167.7000	0.019	0.20	9.4	0.13	14.5
						5.91	173.4000	0.016	0.20	8.2	0.13	12.8

Table D.2

MPE assessment for DVR VHF– trunk mounted antenna – Passenger

Notes:
Blue fonts: Frequencies not regulated by FCC.
Results in bold font are configurations with highest percentage of limits.

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Trunk	PB	E	1	HAD4006A, 1/4 Wave (136-144MHz)	6.0	5.82	140.0000	0.196	0.20	97.8	0.13	151.5
						5.83	144.0000	0.168	0.20	83.8	0.13	129.8
Trunk	PB	H	1	HAD4006A, 1/4 Wave (136-144MHz)	6.0	5.82	140.0000	0.111	0.20	55.4	0.13	85.8
						5.83	144.0000	0.093	0.20	46.6	0.13	72.2
Trunk	PB	E	2	HAD4007A, 1/4 Wave (144-150.8MHz)	6.0	5.83	144.0000	0.146	0.20	73.0	0.13	113.0
						5.81	150.8000	0.103	0.20	51.4	0.13	79.7
Trunk	PB	H	2	HAD4007A, 1/4 Wave (144-150.8MHz)	6.0	5.83	144.0000	0.074	0.20	37.2	0.13	57.6
						5.81	150.8000	0.096	0.20	47.9	0.13	74.2
Trunk	PB	E	3	HAD4008A, 1/4 Wave (150.8-162MHz)	6.0	5.81	150.8000	0.098	0.20	49.0	0.13	75.9
						5.92	156.4000	0.137	0.20	68.4	0.13	106.0
						5.88	162.0000	0.230	0.20	**114.8**	0.13	**177.9**
Trunk	PB	H	3	HAD4008A, 1/4 Wave (150.8-162MHz)	6.0	5.81	150.8000	0.076	0.20	37.8	0.13	58.6
						5.92	156.4000	0.142	0.20	71.2	0.13	110.3
						5.88	162.0000	0.175	0.20	87.3	0.13	135.2
Trunk	PB	E	4	HAD4009A, 1/4 Wave (162-174MHz)	6.0	5.88	162.0000	0.172	0.20	86.2	0.13	133.6
						5.95	167.7000	0.161	0.20	80.3	0.13	124.4
						5.91	173.4000	0.185	0.20	92.3	0.13	143.0
Trunk	PB	H	4	HAD4009A, 1/4 Wave (162-174MHz)	6.0	5.88	162.0000	0.119	0.20	59.5	0.13	92.2
						5.95	167.7000	0.159	0.20	79.3	0.13	122.9
						5.91	173.4000	0.093	0.20	46.5	0.13	72.0

Table D.2 (Continued)

MPE assessment for DVR VHF– trunk mounted antenna – Passenger

Notes:
Blue fonts: Frequencies not regulated by FCC.
Results in bold font are configurations with highest percentage of limits.

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Trunk	PF	E	1	HAD4006A, 1/4 Wave (136-144MHz)	6.0	5.82	140.0000	0.014	0.20	7.2	0.13	11.1
						5.83	144.0000	0.018	0.20	9.1	0.13	14.1
Trunk	PF	H	1	HAD4006A, 1/4 Wave (136-144MHz)	6.0	5.82	140.0000	0.021	0.20	10.7	0.13	16.6
						5.83	144.0000	0.024	0.20	12.1	0.13	18.7
Trunk	PF	E	2	HAD4007A, 1/4 Wave (144-150.8MHz)	6.0	5.83	144.0000	0.021	0.20	10.3	0.13	16.0
						5.81	150.8000	0.023	0.20	11.4	0.13	17.7
Trunk	PF	H	2	HAD4007A, 1/4 Wave (144-150.8MHz)	6.0	5.83	144.0000	0.025	0.20	12.3	0.13	19.1
						5.81	150.8000	0.029	0.20	14.5	0.13	22.4
Trunk	PF	E	3	HAD4008A, 1/4 Wave (150.8-162MHz)	6.0	5.81	150.8000	0.025	0.20	12.3	0.13	19.0
						5.92	156.4000	0.033	0.20	16.5	0.13	25.6
						5.88	162.0000	0.033	0.20	16.5	0.13	25.5
Trunk	PF	H	3	HAD4008A, 1/4 Wave (150.8-162MHz)	6.0	5.81	150.8000	0.028	0.20	13.9	0.13	21.5
						5.92	156.4000	0.036	0.20	**18.0**	0.13	**27.8**
						5.88	162.0000	0.035	0.20	17.4	0.13	27.0
Trunk	PF	E	4	HAD4009A, 1/4 Wave (162-174MHz)	6.0	5.88	162.0000	0.023	0.20	11.6	0.13	18.0
						5.95	167.7000	0.024	0.20	12.2	0.13	18.9
						5.91	173.4000	0.027	0.20	13.5	0.13	20.9
Trunk	PF	H	4	HAD4009A, 1/4 Wave (162-174MHz)	6.0	5.88	162.0000	0.028	0.20	14.0	0.13	21.6
						5.95	167.7000	0.033	0.20	16.5	0.13	25.6
						5.91	173.4000	0.021	0.20	10.6	0.13	16.4

Table D.3

DVR VHF MPE Results for FCC

Note:
Blue fonts: Frequencies not regulated by FCC.

Pmax (W)	6	Pinitial (W)	5.82	5.83	5.81	5.92	5.88	5.95	5.91
		FCCLimit (mW/cm^2)	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table	Test Post.	Angle	Trunk / Roof	E/H Field	Antenna No.	f1	f2	f3	f4	f5	f6	f7
						140.0000	144.0000	150.8000	156.4000	162.0000	167.7000	173.4000
D.1	BS1		Trunk	E	1	0.013	0.012					
D.1	BS1		Trunk	H	1	0.012	0.010					
D.1	BS2		Trunk	E	1	0.020	0.015					
D.1	BS2		Trunk	H	1	0.019	0.019					
D.1	BS3		Trunk	E	1	0.029	0.026					
D.1	BS3		Trunk	H	1	0.023	0.015					
D.1	BS4		Trunk	E	1	0.027	0.025					
D.1	BS4		Trunk	H	1	0.022	0.017					
D.1	BS5		Trunk	E	1	0.019	0.021					
D.1	BS5		Trunk	H	1	0.018	0.019					
D.1	BS1		Trunk	E	2		0.015	0.006				
D.1	BS1		Trunk	H	2		0.010	0.012				
D.1	BS2		Trunk	E	2		0.017	0.012				
D.1	BS2		Trunk	H	2		0.018	0.015				
D.1	BS3		Trunk	E	2		0.028	0.029				
D.1	BS3		Trunk	H	2		0.016	0.024				
D.1	BS4		Trunk	E	2		0.027	0.034				
D.1	BS4		Trunk	H	2		0.017	0.027				
D.1	BS5		Trunk	E	2		0.022	0.015				
D.1	BS5		Trunk	H	2		0.019	0.019				
D.1	BS1		Trunk	E	3			0.007	0.005	0.005		
D.1	BS1		Trunk	H	3			0.012	0.011	0.013		
D.1	BS2		Trunk	E	3			0.011	0.016	0.022		
D.1	BS2		Trunk	H	3			0.013	0.015	0.017		
D.1	BS3		Trunk	E	3			0.027	0.035	0.042		
D.1	BS3		Trunk	H	3			0.021	0.016	0.027		
D.1	BS4		Trunk	E	3			0.030	0.028	0.041		
D.1	BS4		Trunk	H	3			0.027	0.023	0.029		
D.1	BS5		Trunk	E	3			0.014	0.020	0.020		
D.1	BS5		Trunk	H	3			0.019	0.021	0.022		
D.1	BS1		Trunk	E	4					0.005	0.004	0.007
D.1	BS1		Trunk	H	4					0.010	0.010	0.011
D.1	BS2		Trunk	E	4					0.015	0.019	0.014
D.1	BS2		Trunk	H	4					0.015	0.013	0.013
D.1	BS3		Trunk	E	4					0.029	0.040	0.033
D.1	BS3		Trunk	H	4					0.020	0.027	0.026
D.1	BS4		Trunk	E	4					0.029	0.041	0.034
D.1	BS4		Trunk	H	4					0.020	0.031	0.031
D.1	BS5		Trunk	E	4					0.014	0.020	0.012
D.1	BS5		Trunk	H	4					0.017	0.019	0.016

Table D.3 (Continued)

DVR VHF MPE Results for FCC

Note:
Blue fonts: Frequencies not regulated by FCC.

Pmax (W)	6	**P**initia**l** (W)	5.82	5.83	5.81	5.92	5.88	5.95	5.91
		FCCLimit (mW/cm^2)	0.20	0.20	0.20	0.20	0.20	0.20	0.54

Table	Test Post.	Angle	Trunk / Roof	E/H Field	Antenna No.	f1	f2	f3	f4	f5	f6	f7
						140.0000	144.0000	150.8000	156.4000	162.0000	167.7000	173.4000
D.2	PB		Trunk	E	1	0.196	0.168					
D.2	PB		Trunk	H	1	0.011	0.093					
D.2	PB		Trunk	E	2		0.146	0.103				
D.2	PB		Trunk	H	2		0.074	0.096				
D.2	PB		Trunk	E	3			0.098	0.137	0.230		
D.2	PB		Trunk	H	3			0.076	0.142	0.175		
D.2	PB		Trunk	E	4					0.172	0.161	0.185
D.2	PB		Trunk	H	4					0.119	0.159	0.093
D.2	PF		Trunk	E	1	0.014	0.018					
D.2	PF		Trunk	H	1	0.021	0.024					
D.2	PF		Trunk	E	2		0.021	0.023				
D.2	PF		Trunk	H	2		0.025	0.029				
D.2	PF		Trunk	E	3			0.025	0.033	0.033		
D.2	PF		Trunk	H	3			0.028	0.036	0.035		
D.2	PF		Trunk	E	4					0.023	0.024	0.027
D.2	PF		Trunk	H	4					0.028	0.033	0.021

Appendix E – MPE Test Results Summary for Companion Mobile APX4500 VHF

Table E.1

MPE assessment for APX4500 VHF - 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	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.04	0.20	19.5	0.13	30.1
						59.3	144.0000	0.04	0.20	22.1	0.13	34.3
						58.8	150.8000	0.03	0.20	12.6	0.13	19.5
						58.8	156.2000	0.03	0.20	14.2	0.13	22.0
						58.8	162.0000	0.02	0.20	9.8	0.13	15.2
Roof	BS1	H	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.03	0.20	16.6	0.13	25.6
						59.3	144.0000	0.05	0.20	24.6	0.13	38.2
						58.8	150.8000	0.04	0.20	22.2	0.13	34.4
						58.8	156.2000	0.04	0.20	19.7	0.13	30.4
						58.8	162.0000	0.04	0.20	18.7	0.13	29.0
Roof	BS2	E	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.04	0.20	17.9	0.13	27.7
						59.3	144.0000	0.05	0.20	24.5	0.13	38.0
						58.8	150.8000	0.02	0.20	10.5	0.13	16.3
						58.8	156.2000	0.04	0.20	21.2	0.13	32.9
						58.8	162.0000	0.03	0.20	16.3	0.13	25.3
Roof	BS2	H	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.03	0.20	14.0	0.13	21.7
						59.3	144.0000	0.05	0.20	26.7	0.13	41.3
						58.8	150.8000	0.05	0.20	22.7	0.13	35.1
						58.8	156.2000	0.05	0.20	25.1	0.13	38.9
						58.8	162.0000	0.04	0.20	18.1	0.13	28.0
Roof	BS3	E	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.02	0.20	11.9	0.13	18.4
						59.3	144.0000	0.02	0.20	9.8	0.13	15.1
						58.8	150.8000	0.04	0.20	17.5	0.13	27.2
						58.8	156.2000	0.03	0.20	17.0	0.13	26.4
						58.8	162.0000	0.02	0.20	9.5	0.13	14.7

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - 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	BS3	H	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.04	0.20	21.1	0.13	32.7
						59.3	144.0000	0.03	0.20	17.3	0.13	26.8
						58.8	150.8000	0.05	0.20	22.9	0.13	35.5
						58.8	156.2000	0.05	0.20	24.4	0.13	37.8
						58.8	162.0000	0.03	0.20	17.5	0.13	27.1
Roof	BS4	E	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.03	0.20	12.8	0.13	19.8
						59.3	144.0000	0.01	0.20	5.6	0.13	8.6
						58.8	150.8000	0.03	0.20	13.3	0.13	20.6
						58.8	156.2000	0.03	0.20	13.7	0.13	21.2
						58.8	162.0000	0.02	0.20	10.4	0.13	16.2
Roof	BS4	H	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.05	0.20	24.0	0.13	37.2
						59.3	144.0000	0.03	0.20	16.0	0.13	24.8
						58.8	150.8000	0.05	0.20	27.2	0.13	42.1
						58.8	156.2000	0.05	0.20	27.0	0.13	41.8
						58.8	162.0000	0.04	0.20	18.2	0.13	28.2
Roof	BS5	E	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.02	0.20	8.3	0.13	12.8
						59.3	144.0000	0.01	0.20	4.7	0.13	7.4
						58.8	150.8000	0.03	0.20	13.5	0.13	20.9
						58.8	156.2000	0.02	0.20	7.9	0.13	12.3
						58.8	162.0000	0.02	0.20	9.3	0.13	14.4
Roof	BS5	H	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.03	0.20	16.5	0.13	25.5
						59.3	144.0000	0.02	0.20	12.5	0.13	19.3
						58.8	150.8000	0.03	0.20	14.8	0.13	23.0
						58.8	156.2000	0.03	0.20	15.5	0.13	24.0
						58.8	162.0000	0.04	0.20	19.6	0.13	30.4

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - 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	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.04	0.20	18.3	0.13	28.3
						58.8	150.8000	0.02	0.20	11.8	0.13	18.3
						59.0	158.3000	0.03	0.20	13.4	0.13	20.8
						58.7	165.9000	0.02	0.20	12.0	0.13	18.6
						59.0	173.4000	0.03	0.20	12.9	0.13	20.0
Roof	BS1	H	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.03	0.20	15.8	0.13	24.5
						58.8	150.8000	0.04	0.20	20.5	0.13	31.8
						59.0	158.3000	0.04	0.20	20.6	0.13	32.0
						58.7	165.9000	0.04	0.20	18.3	0.13	28.4
						59.0	173.4000	0.04	0.20	21.0	0.13	32.6
Roof	BS2	E	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.03	0.20	16.6	0.13	25.7
						58.8	150.8000	0.02	0.20	10.6	0.13	16.4
						59.0	158.3000	0.04	0.20	18.6	0.13	28.9
						58.7	165.9000	0.04	0.20	19.6	0.13	30.3
						59.0	173.4000	0.04	0.20	20.6	0.13	31.9
Roof	BS2	H	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.03	0.20	15.1	0.13	23.4
						58.8	150.8000	0.04	0.20	18.8	0.13	29.2
						59.0	158.3000	0.05	0.20	23.4	0.13	36.2
						58.7	165.9000	0.05	0.20	22.6	0.13	34.9
						59.0	173.4000	0.05	0.20	24.0	0.13	37.2
Roof	BS3	E	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.01	0.20	6.2	0.13	9.7
						58.8	150.8000	0.03	0.20	13.2	0.13	20.5
						59.0	158.3000	0.03	0.20	13.9	0.13	21.6
						58.7	165.9000	0.03	0.20	14.6	0.13	22.6
						59.0	173.4000	0.03	0.20	12.9	0.13	20.0

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - 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	BS3	H	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.02	0.20	10.9	0.13	16.9
						58.8	150.8000	0.04	0.20	17.6	0.13	27.3
						59.0	158.3000	0.04	0.20	19.5	0.13	30.2
						58.7	165.9000	0.04	0.20	22.1	0.13	34.3
						59.0	173.4000	0.04	0.20	21.5	0.13	33.3
Roof	BS4	E	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.01	0.20	3.7	0.13	5.8
						58.8	150.8000	0.02	0.20	10.3	0.13	15.9
						59.0	158.3000	0.02	0.20	10.8	0.13	16.8
						58.7	165.9000	0.03	0.20	17.1	0.13	26.4
						59.0	173.4000	0.02	0.20	9.8	0.13	15.1
Roof	BS4	H	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.03	0.20	14.7	0.13	22.8
						58.8	150.8000	0.04	0.20	21.9	0.13	33.9
						59.0	158.3000	0.04	0.20	19.6	0.13	30.3
						58.7	165.9000	0.05	0.20	25.8	0.13	40.0
						59.0	173.4000	0.03	0.20	17.3	0.13	26.8
Roof	BS5	E	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.01	0.20	4.0	0.13	6.2
						58.8	150.8000	0.02	0.20	10.3	0.13	15.9
						59.0	158.3000	0.01	0.20	7.3	0.13	11.4
						58.7	165.9000	0.02	0.20	12.1	0.13	18.8
						59.0	173.4000	0.01	0.20	7.3	0.13	11.2
Roof	BS5	H	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.02	0.20	9.8	0.13	15.2
						58.8	150.8000	0.03	0.20	14.9	0.13	23.1
						59.0	158.3000	0.03	0.20	14.7	0.13	22.8
						58.7	165.9000	0.04	0.20	20.5	0.13	31.8
						59.0	173.4000	0.03	0.20	13.4	0.13	20.8

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - 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	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.04	0.20	18.1	0.13	28.0
						59.0	140.0000	0.03	0.20	14.2	0.13	22.1
						59.3	144.0000	0.04	0.20	19.5	0.13	30.2
						58.8	150.8000	0.02	0.20	11.7	0.13	18.2
						59.0	158.3000	0.03	0.20	12.9	0.13	20.0
						58.7	165.9000	0.02	0.20	10.1	0.13	15.6
						59.0	173.4000	0.02	0.20	11.5	0.13	17.8
Roof	BS1	H	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.03	0.20	16.6	0.13	25.7
						59.0	140.0000	0.03	0.20	15.8	0.13	24.5
						59.3	144.0000	0.03	0.20	14.3	0.13	22.1
						58.8	150.8000	0.03	0.20	16.2	0.13	25.1
						59.0	158.3000	0.04	0.20	17.7	0.13	27.4
						58.7	165.9000	0.03	0.20	13.1	0.13	20.3
						59.0	173.4000	0.03	0.20	15.0	0.13	23.2
Roof	BS2	E	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.02	0.20	9.4	0.13	14.5
						59.0	140.0000	0.03	0.20	16.9	0.13	26.2
						59.3	144.0000	0.04	0.20	22.1	0.13	34.3
						58.8	150.8000	0.03	0.20	16.4	0.13	25.4
						59.0	158.3000	0.04	0.20	22.2	0.13	34.5
						58.7	165.9000	0.03	0.20	16.6	0.13	25.7
						59.0	173.4000	0.04	0.20	17.8	0.13	27.6
Roof	BS2	H	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.05	0.20	24.2	0.13	37.4
						59.0	140.0000	0.04	0.20	21.0	0.13	32.5
						59.3	144.0000	0.04	0.20	18.0	0.13	27.9
						58.8	150.8000	0.04	0.20	18.5	0.13	28.6
						59.0	158.3000	0.04	0.20	20.7	0.13	32.1
						58.7	165.9000	0.04	0.20	19.4	0.13	30.1
						59.0	173.4000	0.04	0.20	20.7	0.13	32.1

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - 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	BS3	E	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.02	0.20	11.3	0.13	17.4
						59.0	140.0000	0.02	0.20	10.4	0.13	16.1
						59.3	144.0000	0.02	0.20	8.0	0.13	12.4
						58.8	150.8000	0.03	0.20	15.0	0.13	23.2
						59.0	158.3000	0.03	0.20	13.5	0.13	21.0
						58.7	165.9000	0.03	0.20	12.8	0.13	19.8
						59.0	173.4000	0.02	0.20	10.5	0.13	16.2
Roof	BS3	H	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.03	0.20	14.1	0.13	21.9
						59.0	140.0000	0.02	0.20	11.7	0.13	18.1
						59.3	144.0000	0.02	0.20	12.1	0.13	18.8
						58.8	150.8000	0.04	0.20	19.7	0.13	30.6
						59.0	158.3000	0.04	0.20	20.1	0.13	31.2
						58.7	165.9000	0.04	0.20	20.3	0.13	31.5
						59.0	173.4000	0.03	0.20	16.8	0.13	26.0
Roof	BS4	E	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.03	0.20	12.8	0.13	19.8
						59.0	140.0000	0.02	0.20	10.8	0.13	16.7
						59.3	144.0000	0.01	0.20	4.6	0.13	7.1
						58.8	150.8000	0.02	0.20	11.9	0.13	18.5
						59.0	158.3000	0.02	0.20	10.5	0.13	16.3
						58.7	165.9000	0.03	0.20	12.9	0.13	19.9
						59.0	173.4000	0.02	0.20	8.1	0.13	12.5
Roof	BS4	H	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.04	0.20	22.1	0.13	34.2
						59.0	140.0000	0.04	0.20	21.0	0.13	32.5
						59.3	144.0000	0.03	0.20	15.4	0.13	23.9
						58.8	150.8000	0.03	0.20	15.3	0.13	23.7
						59.0	158.3000	0.04	0.20	19.5	0.13	30.2
						58.7	165.9000	0.05	0.20	24.2	0.13	37.5
						59.0	173.4000	0.03	0.20	16.5	0.13	25.6

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - 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	BS5	E	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.01	0.20	6.9	0.13	10.8
						59.0	140.0000	0.01	0.20	6.1	0.13	9.4
						59.3	144.0000	0.01	0.20	4.9	0.13	7.6
						58.8	150.8000	0.03	0.20	12.9	0.13	20.0
						59.0	158.3000	0.01	0.20	7.2	0.13	11.2
						58.7	165.9000	0.02	0.20	9.9	0.13	15.4
						59.0	173.4000	0.01	0.20	6.6	0.13	10.3
Roof	BS5	H	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.02	0.20	9.0	0.13	13.9
						59.0	140.0000	0.02	0.20	11.7	0.13	18.2
						59.3	144.0000	0.02	0.20	11.3	0.13	17.6
						58.8	150.8000	0.03	0.20	15.6	0.13	24.2
						59.0	158.3000	0.03	0.20	13.2	0.13	20.4
						58.7	165.9000	0.03	0.20	14.6	0.13	22.7
						59.0	173.4000	0.02	0.20	11.4	0.13	17.7
Roof	BS1	E	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.04	0.20	21.0	0.13	32.5
						59.0	140.0000	0.03	0.20	16.0	0.13	24.8
						59.3	144.0000	0.04	0.20	21.8	0.13	33.8
Roof	BS1	H	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.03	0.20	14.9	0.13	23.0
						59.0	140.0000	0.04	0.20	21.1	0.13	32.7
						59.3	144.0000	0.05	0.20	27.3	0.13	42.3
Roof	BS2	E	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.04	0.20	20.3	0.13	31.4
						59.0	140.0000	0.04	0.20	22.3	0.13	34.5
						59.3	144.0000	0.05	0.20	26.3	0.13	40.7
Roof	BS2	H	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.04	0.20	18.6	0.13	28.8
						59.0	140.0000	0.05	0.20	27.0	0.13	41.9
						59.3	144.0000	0.07	0.20	36.5	0.13	**56.5**
Roof	BS3	E	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.03	0.20	13.1	0.13	20.4
						59.0	140.0000	0.03	0.20	13.5	0.13	21.0
						59.3	144.0000	0.02	0.20	11.1	0.13	17.2

Note:
Blue fonts: Frequencies not regulated by FCC.
Results in bold font are configurations with highest percentage of limits.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - 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	BS3	H	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.04	0.20	20.9	0.13	32.4
						59.0	140.0000	0.04	0.20	18.9	0.13	29.3
						59.3	144.0000	0.03	0.20	16.9	0.13	26.2
Roof	BS4	E	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.03	0.20	13.9	0.13	21.5
						59.0	140.0000	0.02	0.20	8.9	0.13	13.8
						59.3	144.0000	0.01	0.20	6.6	0.13	10.2
Roof	BS4	H	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.05	0.20	22.6	0.13	34.9
						59.0	140.0000	0.04	0.20	20.4	0.13	31.6
						59.3	144.0000	0.03	0.20	16.4	0.13	25.5
Roof	BS5	E	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.02	0.20	9.0	0.13	14.0
						59.0	140.0000	0.01	0.20	5.6	0.13	8.7
						59.3	144.0000	0.01	0.20	5.5	0.13	8.5
Roof	BS5	H	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.03	0.20	16.3	0.13	25.2
						59.0	140.0000	0.03	0.20	13.4	0.13	20.7
						59.3	144.0000	0.03	0.20	13.0	0.13	20.1
Roof	BS1	E	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.04	0.20	21.9	0.13	33.9
						59.1	148.0000	0.04	0.20	19.8	0.13	30.7
						58.8	150.8000	0.03	0.20	12.6	0.13	19.6
Roof	BS1	H	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.05	0.20	25.3	0.13	39.3
						59.1	148.0000	0.06	0.20	27.9	0.13	43.2
						58.8	150.8000	0.05	0.20	23.7	0.13	36.8
Roof	BS2	E	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.05	0.20	25.5	0.13	39.5
						59.1	148.0000	0.03	0.20	15.4	0.13	23.9
						58.8	150.8000	0.02	0.20	11.3	0.13	17.5
Roof	BS2	H	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.05	0.20	27.2	0.13	42.1
						59.1	148.0000	0.06	0.20	29.9	0.13	46.3
						58.8	150.8000	0.06	0.20	27.9	0.13	43.2

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - 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	BS3	E	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.02	0.20	10.2	0.13	15.7
						59.1	148.0000	0.03	0.20	14.7	0.13	22.7
						58.8	150.8000	0.04	0.20	18.6	0.13	28.9
Roof	BS3	H	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.03	0.20	13.8	0.13	21.3
						59.1	148.0000	0.05	0.20	22.9	0.13	35.5
						58.8	150.8000	0.05	0.20	26.5	0.13	41.0
Roof	BS4	E	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.01	0.20	5.8	0.13	8.9
						59.1	148.0000	0.02	0.20	12.1	0.13	18.8
						58.8	150.8000	0.03	0.20	13.9	0.13	21.5
Roof	BS4	H	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.03	0.20	15.6	0.13	24.2
						59.1	148.0000	0.05	0.20	23.7	0.13	36.6
						58.8	150.8000	0.06	0.20	28.1	0.13	43.5
Roof	BS5	E	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.01	0.20	5.0	0.13	7.8
						59.1	148.0000	0.02	0.20	9.5	0.13	14.7
						58.8	150.8000	0.03	0.20	13.9	0.13	21.5
Roof	BS5	H	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.03	0.20	12.6	0.13	19.5
						59.1	148.0000	0.03	0.20	14.4	0.13	22.3
						58.8	150.8000	0.04	0.20	18.5	0.13	28.7
Roof	BS1	E	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.03	0.20	13.4	0.13	20.8
						58.8	156.2000	0.04	0.20	17.8	0.13	27.6
						58.8	162.0000	0.02	0.20	12.2	0.13	18.8
Roof	BS1	H	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.05	0.20	22.5	0.13	34.9
						58.8	156.2000	0.05	0.20	23.9	0.13	37.1
						58.8	162.0000	0.05	0.20	26.9	0.13	41.7
Roof	BS2	E	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.02	0.20	9.8	0.13	15.2
						58.8	156.2000	0.05	0.20	22.6	0.13	35.1
						58.8	162.0000	0.04	0.20	21.3	0.13	33.0

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Table E.1 (Continued)

MPE assessment for APX4500 VHF - 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	BS2	H	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.05	0.20	23.6	0.13	36.5
						58.8	156.2000	0.06	0.20	28.7	0.13	44.4
						58.8	162.0000	0.05	0.20	26.5	0.13	41.0
Roof	BS3	E	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.03	0.20	15.0	0.13	23.2
						58.8	156.2000	0.04	0.20	17.6	0.13	27.3
						58.8	162.0000	0.03	0.20	12.7	0.13	19.7
Roof	BS3	H	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.04	0.20	21.9	0.13	34.0
						58.8	156.2000	0.06	0.20	**29.0**	0.13	44.9
						58.8	162.0000	0.05	0.20	24.7	0.13	38.3
Roof	BS4	E	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.02	0.20	11.6	0.13	18.0
						58.8	156.2000	0.03	0.20	13.4	0.13	20.8
						58.8	162.0000	0.03	0.20	13.7	0.13	21.2
Roof	BS4	H	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.04	0.20	22.2	0.13	34.4
						58.8	156.2000	0.04	0.20	18.6	0.13	28.8
						58.8	162.0000	0.05	0.20	22.6	0.13	35.0
Roof	BS5	E	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.02	0.20	11.0	0.13	17.1
						58.8	156.2000	0.02	0.20	8.6	0.13	13.4
						58.8	162.0000	0.03	0.20	14.5	0.13	22.5
Roof	BS5	H	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.03	0.20	17.5	0.13	27.0
						58.8	156.2000	0.03	0.20	16.0	0.13	24.8
						58.8	162.0000	0.04	0.20	21.3	0.13	33.1
Roof	BS1	E	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.02	0.20	10.5	0.13	16.2
						58.7	167.7000	0.02	0.20	10.3	0.13	16.0
						59.0	173.4000	0.03	0.20	13.7	0.13	21.2
Roof	BS1	H	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.05	0.20	24.5	0.13	37.9
						58.7	167.7000	0.04	0.20	20.9	0.13	32.4
						59.0	173.4000	0.05	0.20	23.5	0.13	36.4

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

Table E.1 (Continued)

MPE assessment for APX4500 VHF - 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	BS2	E	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.04	0.20	18.7	0.13	28.9
						58.7	167.7000	0.04	0.20	18.3	0.13	28.3
						59.0	173.4000	0.04	0.20	21.0	0.13	32.5
Roof	BS2	H	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.05	0.20	27.0	0.13	41.8
						58.7	167.7000	0.05	0.20	24.2	0.13	37.5
						59.0	173.4000	0.05	0.20	26.3	0.13	40.7
Roof	BS3	E	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.02	0.20	11.7	0.13	18.1
						58.7	167.7000	0.03	0.20	14.9	0.13	23.1
						59.0	173.4000	0.03	0.20	14.3	0.13	22.1
Roof	BS3	H	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.04	0.20	22.1	0.13	34.3
						58.7	167.7000	0.05	0.20	24.1	0.13	37.3
						59.0	173.4000	0.04	0.20	21.0	0.13	32.5
Roof	BS4	E	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.03	0.20	12.8	0.13	19.8
						58.7	167.7000	0.03	0.20	15.3	0.13	23.7
						59.0	173.4000	0.02	0.20	10.3	0.13	15.9
Roof	BS4	H	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.04	0.20	22.1	0.13	34.2
						58.7	167.7000	0.04	0.20	19.4	0.13	30.1
						59.0	173.4000	0.03	0.20	14.9	0.13	23.0
Roof	BS5	E	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.03	0.20	12.8	0.13	19.8
						58.7	167.7000	0.02	0.20	8.9	0.13	13.7
						59.0	173.4000	0.02	0.20	7.8	0.13	12.0
Roof	BS5	H	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.04	0.20	20.6	0.13	31.9
						58.7	167.7000	0.03	0.20	14.4	0.13	22.3
						59.0	173.4000	0.03	0.20	15.1	0.13	23.4

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Table E.1 (Continued)

MPE assessment for APX4500 VHF - 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	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.03	0.20	16.0	0.13	24.8
						59.0	140.0000	0.02	0.20	11.1	0.13	17.2
						59.3	144.0000	0.03	0.20	13.8	0.13	21.3
						58.8	150.8000	0.02	0.20	11.7	0.13	18.1
						59.0	158.3000	0.03	0.20	14.4	0.13	22.3
						58.7	165.9000	0.03	0.20	16.7	0.13	25.9
						59.0	173.4000	0.03	0.20	15.2	0.13	23.6
Roof	BS1	H	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.03	0.20	17.1	0.13	26.5
						59.0	140.0000	0.04	0.20	17.9	0.13	27.8
						59.3	144.0000	0.04	0.20	17.8	0.13	27.6
						58.8	150.8000	0.03	0.20	14.2	0.13	21.9
						59.0	158.3000	0.04	0.20	18.0	0.13	27.9
						58.7	165.9000	0.03	0.20	17.3	0.13	26.8
						59.0	173.4000	0.04	0.20	19.9	0.13	30.8
Roof	BS2	E	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.02	0.20	11.0	0.13	17.0
						59.0	140.0000	0.02	0.20	11.2	0.13	17.3
						59.3	144.0000	0.03	0.20	17.1	0.13	26.5
						58.8	150.8000	0.02	0.20	9.4	0.13	14.5
						59.0	158.3000	0.04	0.20	20.7	0.13	32.1
						58.7	165.9000	0.04	0.20	18.6	0.13	28.8
						59.0	173.4000	0.04	0.20	19.7	0.13	30.5
Roof	BS2	H	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.03	0.20	13.3	0.13	20.5
						59.0	140.0000	0.03	0.20	13.1	0.13	20.2
						59.3	144.0000	0.04	0.20	19.8	0.13	30.7
						58.8	150.8000	0.03	0.20	16.8	0.13	26.0
						59.0	158.3000	0.05	0.20	23.4	0.13	36.3
						58.7	165.9000	0.04	0.20	21.7	0.13	33.7
						59.0	173.4000	0.05	0.20	23.8	0.13	36.9

Note:
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Table E.1 (Continued)

MPE assessment for APX4500 VHF - 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	BS3	E	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.01	0.20	6.5	0.13	10.0
						59.0	140.0000	0.02	0.20	9.1	0.13	14.0
						59.3	144.0000	0.02	0.20	8.9	0.13	13.8
						58.8	150.8000	0.02	0.20	9.9	0.13	15.4
						59.0	158.3000	0.03	0.20	15.6	0.13	24.1
						58.7	165.9000	0.03	0.20	15.3	0.13	23.7
						59.0	173.4000	0.03	0.20	13.5	0.13	20.9
Roof	BS3	H	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.02	0.20	12.0	0.13	18.5
						59.0	140.0000	0.03	0.20	14.3	0.13	22.1
						59.3	144.0000	0.02	0.20	12.3	0.13	19.0
						58.8	150.8000	0.03	0.20	14.2	0.13	22.0
						59.0	158.3000	0.04	0.20	21.4	0.13	33.2
						58.7	165.9000	0.04	0.20	20.0	0.13	30.9
						59.0	173.4000	0.04	0.20	18.8	0.13	29.2
Roof	BS4	E	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.02	0.20	9.6	0.13	14.8
						59.0	140.0000	0.01	0.20	7.1	0.13	10.9
						59.3	144.0000	0.01	0.20	6.7	0.13	10.3
						58.8	150.8000	0.02	0.20	9.6	0.13	14.8
						59.0	158.3000	0.02	0.20	10.9	0.13	16.8
						58.7	165.9000	0.03	0.20	14.6	0.13	22.6
						59.0	173.4000	0.02	0.20	9.7	0.13	15.0
Roof	BS4	H	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.04	0.20	21.1	0.13	32.8
						59.0	140.0000	0.03	0.20	16.8	0.13	26.0
						59.3	144.0000	0.03	0.20	15.5	0.13	24.0
						58.8	150.8000	0.04	0.20	18.5	0.13	28.6
						59.0	158.3000	0.04	0.20	19.5	0.13	30.2
						58.7	165.9000	0.05	0.20	25.7	0.13	39.8
						59.0	173.4000	0.03	0.20	17.3	0.13	26.8

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - 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	BS5	E	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.01	0.20	5.9	0.13	9.1
						59.0	140.0000	0.01	0.20	6.0	0.13	9.2
						59.3	144.0000	0.01	0.20	4.6	0.13	7.1
						58.8	150.8000	0.02	0.20	10.3	0.13	16.0
						59.0	158.3000	0.01	0.20	5.7	0.13	8.9
						58.7	165.9000	0.02	0.20	10.4	0.13	16.1
						59.0	173.4000	0.01	0.20	6.5	0.13	10.0
Roof	BS5	H	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.03	0.20	12.7	0.13	19.6
						59.0	140.0000	0.02	0.20	11.3	0.13	17.5
						59.3	144.0000	0.02	0.20	11.6	0.13	18.0
						58.8	150.8000	0.03	0.20	14.8	0.13	22.9
						59.0	158.3000	0.03	0.20	12.7	0.13	19.7
						58.7	165.9000	0.03	0.20	16.3	0.13	25.3
						59.0	173.4000	0.02	0.20	11.5	0.13	17.8
Roof	BS1	E	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.02	0.20	11.1	0.13	17.2
						59.0	140.0000	0.02	0.20	10.1	0.13	15.7
						59.3	144.0000	0.02	0.20	11.1	0.13	17.3
						58.8	150.8000	0.02	0.20	9.9	0.13	15.4
						59.0	158.3000	0.02	0.20	10.4	0.13	16.1
						58.7	165.9000	0.03	0.20	13.0	0.13	20.1
						59.0	173.4000	0.03	0.20	17.4	0.13	27.0
Roof	BS1	H	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.02	0.20	10.6	0.13	16.5
						59.0	140.0000	0.02	0.20	10.5	0.13	16.3
						59.3	144.0000	0.03	0.20	13.9	0.13	21.6
						58.8	150.8000	0.02	0.20	10.1	0.13	15.6
						59.0	158.3000	0.03	0.20	14.7	0.13	22.8
						58.7	165.9000	0.03	0.20	17.0	0.13	26.4
						59.0	173.4000	0.04	0.20	22.0	0.13	34.1

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - 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	BS2	E	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.02	0.20	9.1	0.13	14.1
						59.0	140.0000	0.02	0.20	8.4	0.13	13.0
						59.3	144.0000	0.02	0.20	10.9	0.13	16.9
						58.8	150.8000	0.02	0.20	9.2	0.13	14.3
						59.0	158.3000	0.03	0.20	16.9	0.13	26.1
						58.7	165.9000	0.03	0.20	12.5	0.13	19.4
						59.0	173.4000	0.04	0.20	19.8	0.13	30.7
Roof	BS2	H	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.02	0.20	11.2	0.13	17.4
						59.0	140.0000	0.02	0.20	10.8	0.13	16.7
						59.3	144.0000	0.02	0.20	10.9	0.13	16.8
						58.8	150.8000	0.03	0.20	12.7	0.13	19.6
						59.0	158.3000	0.03	0.20	16.8	0.13	26.0
						58.7	165.9000	0.03	0.20	14.1	0.13	21.8
						59.0	173.4000	0.04	0.20	20.7	0.13	32.1
Roof	BS3	E	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.01	0.20	4.5	0.13	7.0
						59.0	140.0000	0.01	0.20	5.3	0.13	8.2
						59.3	144.0000	0.01	0.20	5.8	0.13	8.9
						58.8	150.8000	0.01	0.20	6.0	0.13	9.3
						59.0	158.3000	0.03	0.20	12.9	0.13	20.0
						58.7	165.9000	0.02	0.20	8.4	0.13	13.0
						59.0	173.4000	0.03	0.20	13.3	0.13	20.6
Roof	BS3	H	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.02	0.20	9.4	0.13	14.6
						59.0	140.0000	0.02	0.20	10.3	0.13	15.9
						59.3	144.0000	0.02	0.20	10.1	0.13	15.7
						58.8	150.8000	0.02	0.20	9.6	0.13	14.9
						59.0	158.3000	0.03	0.20	16.0	0.13	24.7
						58.7	165.9000	0.03	0.20	12.5	0.13	19.4
						59.0	173.4000	0.04	0.20	17.7	0.13	27.4

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - 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	BS4	E	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.01	0.20	5.5	0.13	8.5
						59.0	140.0000	0.01	0.20	4.5	0.13	7.0
						59.3	144.0000	0.01	0.20	4.6	0.13	7.2
						58.8	150.8000	0.01	0.20	5.4	0.13	8.3
						59.0	158.3000	0.02	0.20	9.4	0.13	14.5
						58.7	165.9000	0.02	0.20	7.6	0.13	11.8
						59.0	173.4000	0.02	0.20	9.4	0.13	14.6
Roof	BS4	H	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.03	0.20	16.1	0.13	24.9
						59.0	140.0000	0.03	0.20	16.5	0.13	25.5
						59.3	144.0000	0.04	0.20	18.0	0.13	27.9
						58.8	150.8000	0.03	0.20	16.7	0.13	25.8
						59.0	158.3000	0.04	0.20	18.2	0.13	28.2
						58.7	165.9000	0.03	0.20	15.6	0.13	24.2
						59.0	173.4000	0.04	0.20	18.4	0.13	28.5
Roof	BS5	E	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.01	0.20	3.3	0.13	5.1
						59.0	140.0000	0.01	0.20	3.8	0.13	5.9
						59.3	144.0000	0.01	0.20	3.4	0.13	5.2
						58.8	150.8000	0.01	0.20	4.5	0.13	7.0
						59.0	158.3000	0.01	0.20	3.7	0.13	5.7
						58.7	165.9000	0.01	0.20	6.0	0.13	9.3
						59.0	173.4000	0.01	0.20	5.9	0.13	9.2
Roof	BS5	H	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.02	0.20	9.6	0.13	14.8
						59.0	140.0000	0.02	0.20	10.3	0.13	16.0
						59.3	144.0000	0.02	0.20	10.2	0.13	15.8
						58.8	150.8000	0.02	0.20	12.1	0.13	18.8
						59.0	158.3000	0.02	0.20	10.9	0.13	16.9
						58.7	165.9000	0.02	0.20	10.7	0.13	16.6
						59.0	173.4000	0.02	0.20	10.6	0.13	16.5

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.2

MPE assessment for APX4500 VHF - roof 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
Roof	PB	E	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.14	0.20	70.4	0.13	109.1
						59.3	144.0000	0.12	0.20	60.7	0.13	94.1
						58.8	150.8000	0.15	0.20	76.3	0.13	118.2
						58.8	156.2000	0.15	0.20	77.4	0.13	119.9
						58.8	162.0000	0.14	0.20	72.2	0.13	111.8
Roof	PB	H	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.05	0.20	22.7	0.13	35.1
						59.3	144.0000	0.06	0.20	28.9	0.13	44.8
						58.8	150.8000	0.08	0.20	37.5	0.13	58.2
						58.8	156.2000	0.07	0.20	32.9	0.13	51.0
						58.8	162.0000	0.05	0.20	26.1	0.13	40.4
Roof	PB	E	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.07	0.20	36.4	0.13	56.3
						58.8	150.8000	0.12	0.20	59.3	0.13	91.9
						59.0	158.3000	0.15	0.20	75.9	0.13	117.6
						58.7	165.9000	0.15	0.20	76.2	0.13	118.0
						59.0	173.4000	0.06	0.20	31.6	0.13	49.0
Roof	PB	H	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.03	0.20	17.2	0.13	26.6
						58.8	150.8000	0.06	0.20	28.3	0.13	43.8
						59.0	158.3000	0.07	0.20	32.8	0.13	50.8
						58.7	165.9000	0.07	0.20	34.1	0.13	52.9
						59.0	173.4000	0.05	0.20	24.7	0.13	38.3
Roof	PB	E	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.10	0.20	49.0	0.13	75.9
						59.0	140.0000	0.16	0.20	77.7	0.13	120.4
						59.3	144.0000	0.15	0.20	72.6	0.13	112.5
						58.8	150.8000	0.16	0.20	80.5	0.13	124.7
						59.0	158.3000	0.16	0.20	78.2	0.13	121.2
						58.7	165.9000	0.12	0.20	57.9	0.13	89.6
						59.0	173.4000	0.06	0.20	28.9	0.13	44.7

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.2 (Continued)

MPE assessment for APX4500 VHF - roof 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
Roof	PB	H	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.06	0.20	28.8	0.13	44.7
						59.0	140.0000	0.05	0.20	26.8	0.13	41.5
						59.3	144.0000	0.04	0.20	22.0	0.13	34.2
						58.8	150.8000	0.06	0.20	31.2	0.13	48.4
						59.0	158.3000	0.04	0.20	22.2	0.13	34.4
						58.7	165.9000	0.06	0.20	28.2	0.13	43.7
						59.0	173.4000	0.04	0.20	20.7	0.13	32.0
Roof	PB	E	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.18	0.20	90.9	0.13	140.8
						59.0	140.0000	0.14	0.20	69.9	0.13	108.3
						59.3	144.0000	0.12	0.20	59.3	0.13	91.8
Roof	PB	H	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.07	0.20	33.6	0.13	52.0
						59.0	140.0000	0.07	0.20	33.7	0.13	52.2
						59.3	144.0000	0.07	0.20	33.5	0.13	51.9
Roof	PB	E	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.11	0.20	54.7	0.13	84.7
						59.1	148.0000	0.16	0.20	81.0	0.13	125.5
						58.8	150.8000	0.17	0.20	85.4	0.13	132.4
Roof	PB	H	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.05	0.20	26.6	0.13	41.3
						59.1	148.0000	0.07	0.20	37.4	0.13	57.9
						58.8	150.8000	0.08	0.20	41.8	0.13	64.8
Roof	PB	E	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.13	0.20	65.6	0.13	101.6
						58.8	156.2000	0.18	0.20	90.3	0.13	139.9
						58.8	162.0000	0.20	0.20	98.9	0.13	153.2
Roof	PB	H	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.08	0.20	37.5	0.13	58.2
						58.8	156.2000	0.08	0.20	39.5	0.13	61.2
						58.8	162.0000	0.08	0.20	38.2	0.13	59.1
Roof	PB	E	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.20	0.20	**99.9**	0.13	**154.8**
						58.7	167.7000	0.13	0.20	65.2	0.13	100.9
						59.0	173.4000	0.09	0.20	44.9	0.13	69.5

Note:
Blue fonts: Frequencies not regulated by FCC.
Results in bold font are configurations with highest percentage of limits.

Table E.2 (Continued)

MPE assessment for APX4500 VHF - roof 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
Roof	PB	H	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.07	0.20	34.9	0.13	54.1
						58.7	167.7000	0.06	0.20	31.4	0.13	48.6
						59.0	173.4000	0.06	0.20	30.5	0.13	47.2
Roof	PB	E	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.04	0.20	18.4	0.13	28.5
						59.0	140.0000	0.04	0.20	19.1	0.13	29.6
						59.3	144.0000	0.04	0.20	20.6	0.13	31.8
						58.8	150.8000	0.06	0.20	27.7	0.13	42.9
						59.0	158.3000	0.07	0.20	35.6	0.13	55.2
						58.7	165.9000	0.08	0.20	38.4	0.13	59.5
						59.0	173.4000	0.04	0.20	19.4	0.13	30.0
Roof	PB	H	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.02	0.20	10.6	0.13	16.4
						59.0	140.0000	0.03	0.20	16.2	0.13	25.0
						59.3	144.0000	0.03	0.20	14.0	0.13	21.7
						58.8	150.8000	0.02	0.20	10.2	0.13	15.8
						59.0	158.3000	0.03	0.20	12.5	0.13	19.4
						58.7	165.9000	0.04	0.20	21.3	0.13	33.0
						59.0	173.4000	0.03	0.20	13.9	0.13	21.5
Roof	PB	E	13	RAD4010AR 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.01	0.20	6.5	0.13	10.0
						59.0	140.0000	0.02	0.20	12.2	0.13	18.9
						59.3	144.0000	0.03	0.20	13.6	0.13	21.1
						58.8	150.8000	0.02	0.20	8.7	0.13	13.4
						59.0	158.3000	0.03	0.20	15.4	0.13	23.8
						58.7	165.9000	0.03	0.20	13.6	0.13	21.0
						59.0	173.4000	0.02	0.20	11.6	0.13	17.9
Roof	PB	E	13	RAD4010AR 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.03	0.20	13.5	0.13	20.9
						59.0	140.0000	0.02	0.20	9.9	0.13	15.4
						59.3	144.0000	0.02	0.20	12.4	0.13	19.2
						58.8	150.8000	0.02	0.20	9.7	0.13	15.1
						59.0	158.3000	0.03	0.20	13.4	0.13	20.8
						58.7	165.9000	0.03	0.20	13.9	0.13	21.5
						59.0	173.4000	0.02	0.20	9.8	0.13	15.2

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.2 (Continued)

MPE assessment for APX4500 VHF - roof 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
Roof	PF	E	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.04	0.20	18.1	0.13	28.0
						59.3	144.0000	0.06	0.20	29.8	0.13	46.2
						58.8	150.8000	0.03	0.20	15.4	0.13	23.8
						58.8	156.2000	0.04	0.20	19.2	0.13	29.7
						58.8	162.0000	0.04	0.20	21.1	0.13	32.7
Roof	PF	H	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.05	0.20	24.4	0.13	37.8
						59.3	144.0000	0.04	0.20	18.1	0.13	28.0
						58.8	150.8000	0.04	0.20	18.4	0.13	28.4
						58.8	156.2000	0.04	0.20	21.3	0.13	33.0
						58.8	162.0000	0.04	0.20	21.5	0.13	33.4
Roof	PF	E	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.05	0.20	26.5	0.13	41.1
						58.8	150.8000	0.04	0.20	17.6	0.13	27.3
						59.0	158.3000	0.04	0.20	22.5	0.13	34.8
						58.7	165.9000	0.06	0.20	28.3	0.13	43.9
						59.0	173.4000	0.07	0.20	34.8	0.13	54.0
Roof	PF	H	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.02	0.20	11.7	0.13	18.1
						58.8	150.8000	0.03	0.20	13.8	0.13	21.4
						59.0	158.3000	0.05	0.20	24.8	0.13	38.4
						58.7	165.9000	0.06	0.20	30.0	0.13	46.4
						59.0	173.4000	0.03	0.20	13.6	0.13	21.0
Roof	PF	E	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.03	0.20	16.3	0.13	25.3
						59.0	140.0000	0.05	0.20	26.5	0.13	41.0
						59.3	144.0000	0.03	0.20	14.7	0.13	22.8
						58.8	150.8000	0.02	0.20	12.5	0.13	19.3
						59.0	158.3000	0.05	0.20	24.1	0.13	37.4
						58.7	165.9000	0.03	0.20	14.2	0.13	22.1
						59.0	173.4000	0.03	0.20	15.0	0.13	23.2

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.2 (Continued)

MPE assessment for APX4500 VHF - roof 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
Roof	PF	H	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.07	0.20	33.7	0.13	52.2
						59.0	140.0000	0.07	0.20	35.2	0.13	54.5
						59.3	144.0000	0.04	0.20	21.2	0.13	32.9
						58.8	150.8000	0.03	0.20	17.4	0.13	27.0
						59.0	158.3000	0.03	0.20	16.2	0.13	25.0
						58.7	165.9000	0.02	0.20	9.2	0.13	14.3
						59.0	173.4000	0.02	0.20	10.6	0.13	16.4
Roof	PF	E	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.07	0.20	35.1	0.13	54.4
						59.0	140.0000	0.05	0.20	24.7	0.13	38.3
						59.3	144.0000	0.07	0.20	35.3	0.13	54.8
Roof	PF	H	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.07	0.20	35.9	0.13	55.7
						59.0	140.0000	0.05	0.20	26.2	0.13	40.6
						59.3	144.0000	0.04	0.20	20.1	0.13	31.1
Roof	PF	E	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.07	0.20	34.7	0.13	53.8
						59.1	148.0000	0.06	0.20	29.1	0.13	45.1
						58.8	150.8000	0.05	0.20	25.8	0.13	40.0
Roof	PF	H	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.04	0.20	19.4	0.13	30.1
						59.1	148.0000	0.04	0.20	17.5	0.13	27.2
						58.8	150.8000	0.04	0.20	20.2	0.13	31.3
Roof	PF	E	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.04	0.20	21.8	0.13	33.7
						58.8	156.2000	0.06	0.20	27.7	0.13	42.9
						58.8	162.0000	0.05	0.20	24.5	0.13	38.0
Roof	PF	H	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.03	0.20	15.9	0.13	24.6
						58.8	156.2000	0.03	0.20	17.3	0.13	26.7
						58.8	162.0000	0.03	0.20	15.5	0.13	24.0
Roof	PF	E	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.08	0.20	**39.7**	0.13	**61.5**
						58.7	167.7000	0.08	0.20	38.1	0.13	59.0
						59.0	173.4000	0.07	0.20	34.1	0.13	52.8

Note:
Blue fonts: Frequencies not regulated by FCC.
Results in bold font are configurations with highest percentage of limits.

Table E.2 (Continued)

MPE assessment for APX4500 VHF - roof 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
Roof	PF	H	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.04	0.20	17.5	0.13	27.2
						58.7	167.7000	0.03	0.20	14.4	0.13	22.2
						59.0	173.4000	0.04	0.20	19.1	0.13	29.7
Roof	PF	E	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.02	0.20	11.3	0.13	17.6
						59.0	140.0000	0.05	0.20	26.4	0.13	40.8
						59.3	144.0000	0.04	0.20	17.7	0.13	27.4
						58.8	150.8000	0.06	0.20	32.1	0.13	49.7
						59.0	158.3000	0.04	0.20	19.1	0.13	29.6
						58.7	165.9000	0.04	0.20	17.8	0.13	27.6
						59.0	173.4000	0.04	0.20	17.7	0.13	27.5
Roof	PF	H	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.06	0.20	28.5	0.13	44.2
						59.0	140.0000	0.05	0.20	27.2	0.13	42.1
						59.3	144.0000	0.02	0.20	11.9	0.13	18.4
						58.8	150.8000	0.02	0.20	8.9	0.13	13.8
						59.0	158.3000	0.02	0.20	11.4	0.13	17.7
						58.7	165.9000	0.03	0.20	17.1	0.13	26.6
						59.0	173.4000	0.02	0.20	12.5	0.13	19.3
Roof	PF	E	13	RAD4010AR 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.04	0.20	19.4	0.13	30.0
						59.0	140.0000	0.01	0.20	6.7	0.13	10.3
						59.3	144.0000	0.03	0.20	12.6	0.13	19.5
						58.8	150.8000	0.01	0.20	6.2	0.13	9.7
						59.0	158.3000	0.05	0.20	25.6	0.13	39.6
						58.7	165.9000	0.05	0.20	26.5	0.13	41.1
						59.0	173.4000	0.03	0.20	13.8	0.13	21.4
Roof	PF	E	13	RAD4010AR 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.06	0.20	29.2	0.13	45.3
						59.0	140.0000	0.02	0.20	10.4	0.13	16.2
						59.3	144.0000	0.03	0.20	13.4	0.13	20.8
						58.8	150.8000	0.01	0.20	5.9	0.13	9.1
						59.0	158.3000	0.02	0.20	8.9	0.13	13.8
						58.7	165.9000	0.03	0.20	14.1	0.13	21.9
						59.0	173.4000	0.02	0.20	10.6	0.13	16.4

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.3

Companion Mobile LMR VHF MPE Results for FCC

Note:
Blue fonts: Frequencies not regulated by FCC.

Pmax (W) 60	**P**initial (W)	59.0	59.0	59.3	59.6	59.1	58.8	58.8	59.0	58.8	58.7	58.7	59.0
	FCCLimit (mW/cm^2)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table	Test Post.	Trunk / Roof	E/H Field	Antenna No.	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
					136.0000	140.0000	144.0000	146.0000	148.0000	150.8000	156.2000	158.3000	162.0000	165.9000	167.7000	173.4000
E.1	BS1	Roof	E	5	0.04		0.04			0.03	0.03		0.02			
E.1	BS2	Roof	E	5	0.04		0.05			0.02	0.04		0.03			
E.1	BS3	Roof	E	5	0.02		0.02			0.04	0.03		0.02			
E.1	BS4	Roof	E	5	0.03		0.01			0.03	0.03		0.02			
E.1	BS5	Roof	E	5	0.02		0.01			0.03	0.02		0.02			
E.1	BS1	Roof	H	5	0.03		0.05			0.04	0.04		0.04			
E.1	BS2	Roof	H	5	0.03		0.05			0.05	0.05		0.04			
E.1	BS3	Roof	H	5	0.04		0.03			0.05	0.05		0.03			
E.1	BS4	Roof	H	5	0.05		0.03			0.05	0.05		0.04			
E.1	BS5	Roof	H	5	0.03		0.02			0.03	0.03		0.04			
E.1	BS1	Roof	E	6				0.04		0.02		0.03		0.02		0.03
E.1	BS2	Roof	E	6				0.03		0.02		0.04		0.04		0.04
E.1	BS3	Roof	E	6				0.01		0.03		0.03		0.03		0.03
E.1	BS4	Roof	E	6				0.01		0.02		0.02		0.03		0.02
E.1	BS5	Roof	E	6				0.01		0.02		0.01		0.02		0.01
E.1	BS1	Roof	H	6				0.03		0.04		0.04		0.04		0.04
E.1	BS2	Roof	H	6				0.03		0.04		0.05		0.05		0.05
E.1	BS3	Roof	H	6				0.02		0.04		0.04		0.04		0.04
E.1	BS4	Roof	H	6				0.03		0.04		0.04		0.05		0.05
E.1	BS5	Roof	H	6				0.02		0.03		0.03		0.04		0.03
E.1	BS1	Roof	E	7	0.04	0.03	0.04			0.02		0.03		0.02		0.02
E.1	BS2	Roof	E	7	0.02	0.03	0.04			0.03		0.04		0.03		0.04
E.1	BS3	Roof	E	7	0.02	0.02	0.02			0.03		0.03		0.03		0.02
E.1	BS4	Roof	E	7	0.03	0.02	0.01			0.02		0.02		0.03		0.02
E.1	BS5	Roof	E	7	0.01	0.01	0.01			0.03		0.01		0.02		0.01
E.1	BS1	Roof	H	7	0.03	0.03	0.03			0.03		0.04		0.03		0.03
E.1	BS2	Roof	H	7	0.05	0.04	0.04			0.04		0.04		0.04		0.04
E.1	BS3	Roof	H	7	0.03	0.02	0.02			0.04		0.04		0.04		0.03
E.1	BS4	Roof	H	7	0.04	0.04	0.03			0.03		0.04		0.05		0.03
E.1	BS5	Roof	H	7	0.02	0.02	0.02			0.03		0.03		0.03		0.02
E.1	BS1	Roof	E	8	0.04	0.03	0.04									
E.1	BS2	Roof	E	8	0.04	0.04	0.05									
E.1	BS3	Roof	E	8	0.03	0.03	0.02									
E.1	BS4	Roof	E	8	0.03	0.02	0.01									
E.1	BS5	Roof	E	8	0.02	0.01	0.01									

Table E.3

Companion Mobile LMR VHF MPE Results for FCC

Note:
Blue fonts: Frequencies not regulated by FCC.

Pmax (W) 60												
	Pinitial (W)	59.0	59.0	59.3	59.6	59.1	58.8	58.8	59.0	58.8	58.7	58.7	59.0
	FCCLimit (mW/cm^2)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table	Test Post.	Trunk / Roof	E/H Field	Antenna No.	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
					136.0000	140.0000	144.0000	146.0000	148.0000	150.8000	156.2000	158.3000	162.0000	165.9000	167.7000	173.4000
E.1	BS1	Roof	H	8	0.03	0.04	0.05									
E.1	BS2	Roof	H	8	0.04	0.05	0.07									
E.1	BS3	Roof	H	8	0.04	0.04	0.03									
E.1	BS4	Roof	H	8	0.05	0.04	0.03									
E.1	BS5	Roof	H	8	0.03	0.03	0.03									
E.1	BS1	Roof	E	9			0.04		0.04	0.03						
E.1	BS2	Roof	E	9			0.05		0.03	0.02						
E.1	BS3	Roof	E	9			0.02		0.03	0.04						
E.1	BS4	Roof	E	9			0.01		0.02	0.03						
E.1	BS5	Roof	E	9			0.01		0.02	0.03						
E.1	BS1	Roof	H	9			0.05		0.06	0.05						
E.1	BS2	Roof	H	9			0.05		0.06	0.06						
E.1	BS3	Roof	H	9			0.03		0.05	0.05						
E.1	BS4	Roof	H	9			0.03		0.05	0.06						
E.1	BS5	Roof	H	9			0.03		0.03	0.04						
E.1	BS1	Roof	E	10						0.05	0.05		0.05			
E.1	BS2	Roof	E	10						0.05	0.06		0.05			
E.1	BS3	Roof	E	10						0.04	0.06		0.05			
E.1	BS4	Roof	E	10						0.02	0.03		0.03			
E.1	BS5	Roof	E	10						0.02	0.02		0.03			
E.1	BS1	Roof	H	10						0.05	0.05		0.05			
E.1	BS2	Roof	H	10						0.05	0.06		0.05			
E.1	BS3	Roof	H	10						0.04	0.06		0.05			
E.1	BS4	Roof	H	10						0.04	0.04		0.05			
E.1	BS5	Roof	H	10						0.03	0.03		0.04			
E.1	BS1	Roof	E	11									0.02		0.02	0.03
E.1	BS2	Roof	E	11									0.04		0.04	0.04
E.1	BS3	Roof	E	11									0.02		0.03	0.03
E.1	BS4	Roof	E	11									0.03		0.03	0.02
E.1	BS5	Roof	E	11									0.03		0.02	0.02
E.1	BS1	Roof	H	11									0.05		0.04	0.05
E.1	BS2	Roof	H	11									0.05		0.05	0.05
E.1	BS3	Roof	H	11									0.04		0.05	0.04
E.1	BS4	Roof	H	11									0.04		0.04	0.03
E.1	BS5	Roof	H	11									0.04		0.03	0.03

Table E.3

Companion Mobile LMR VHF MPE Results for FCC

Note:
Blue fonts: Frequencies not regulated by FCC.

Pmax (W) 60	**P**initial (W)	59.0	59.0	59.3	59.6	59.1	58.8	58.8	59.0	58.8	58.7	58.7	59.0
	FCCLimit (mW/cm^2)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table	Test Post.	Trunk / Roof	E/H Field	Antenna No.	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
					136.0000	140.0000	144.0000	146.0000	148.0000	150.8000	156.2000	158.3000	162.0000	165.9000	167.7000	173.4000
E.1	BS1	Roof	E	12	0.03	0.02	0.03			0.02		0.03		0.03		0.03
E.1	BS2	Roof	E	12	0.02	0.02	0.03			0.02		0.04		0.04		0.04
E.1	BS3	Roof	E	12	0.01	0.02	0.02			0.02		0.03		0.03		0.03
E.1	BS4	Roof	E	12	0.02	0.01	0.01			0.02		0.02		0.03		0.02
E.1	BS5	Roof	E	12	0.01	0.01	0.01			0.02		0.01		0.02		0.01
E.1	BS1	Roof	H	12	0.03	0.04	0.04			0.03		0.04		0.03		0.04
E.1	BS2	Roof	H	12	0.03	0.03	0.04			0.03		0.05		0.04		0.05
E.1	BS3	Roof	H	12	0.02	0.03	0.02			0.03		0.04		0.04		0.04
E.1	BS4	Roof	H	12	0.04	0.03	0.03			0.04		0.04		0.05		0.03
E.1	BS5	Roof	H	12	0.03	0.02	0.02			0.03		0.03		0.03		0.02
E.1	BS1	Roof	E	13	0.02	0.02	0.02			0.02		0.02		0.03		0.03
E.1	BS2	Roof	E	13	0.02	0.02	0.02			0.02		0.03		0.03		0.04
E.1	BS3	Roof	E	13	0.01	0.01	0.01			0.01		0.03		0.02		0.03
E.1	BS4	Roof	E	13	0.01	0.01	0.01			0.01		0.02		0.02		0.02
E.1	BS5	Roof	E	13	0.01	0.01	0.01			0.01		0.01		0.01		0.01
E.1	BS1	Roof	H	13	0.02	0.02	0.03			0.02		0.03		0.03		0.04
E.1	BS2	Roof	H	13	0.02	0.02	0.02			0.03		0.03		0.03		0.04
E.1	BS3	Roof	H	13	0.02	0.02	0.02			0.02		0.03		0.03		0.04
E.1	BS4	Roof	H	13	0.03	0.03	0.04			0.03		0.04		0.03		0.04
E.1	BS5	Roof	H	13	0.02	0.02	0.02			0.02		0.02		0.02		0.02
E.2	PB	Roof	E	5	0.14		0.12			0.15	0.15		0.14			
E.2	PB	Roof	H	5	0.05		0.06			0.08	0.07		0.05			
E.2	PB	Roof	E	6				0.07		0.12		0.15		0.15		0.06
E.2	PB	Roof	H	6				0.03		0.06		0.07		0.07		0.05
E.2	PB	Roof	E	7	0.10	0.16	0.15			0.16		0.16		0.12		0.06
E.2	PB	Roof	H	7	0.06	0.05	0.04			0.06		0.04		0.06		0.04
E.2	PB	Roof	E	8	0.18	0.14	0.12									
E.2	PB	Roof	H	8	0.07	0.07	0.07									
E.2	PB	Roof	E	9			0.11		0.16	0.17						
E.2	PB	Roof	H	9			0.05		0.07	0.08						
E.2	PB	Roof	E	10						0.13	0.18		0.20			
E.2	PB	Roof	H	10						0.08	0.08		0.08			
E.2	PB	Roof	E	11									0.20		0.13	0.09
E.2	PB	Roof	H	11									0.07		0.06	0.06
E.2	PB	Roof	E	12	0.04	0.04	0.04			0.06		0.07		0.08		0.04
E.2	PB	Roof	H	12	0.02	0.03	0.03			0.02		0.03		0.04		0.03
E.2	PB	Roof	E	13	0.01	0.02	0.03			0.02		0.03		0.03		0.02
E.2	PB	Roof	H	13	0.03	0.02	0.02			0.02		0.03		0.03		0.02

Table E.3

Companion Mobile LMR VHF MPE Results for FCC

Note:
Blue fonts: Frequencies not regulated by FCC.

Pmax (W) 60	Pinitial (W)	59.0	59.0	59.3	59.6	59.1	58.8	58.8	59.0	58.8	58.7	58.7	59.0
	FCCLimit (mW/cm^2)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table	Test Post.	Trunk / Roof	E/H Field	Antenna No.	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
					136.0000	140.0000	144.0000	146.0000	148.0000	150.8000	156.2000	158.3000	162.0000	165.9000	167.7000	173.4000
E.2	PF	Roof	E	5	0.04		0.06			0.03	0.04		0.04			
E.2	PF	Roof	H	5	0.05		0.04			0.04	0.04		0.04			
E.2	PF	Roof	E	6				0.05		0.04		0.04		0.06		0.07
E.2	PF	Roof	H	6				0.02		0.03		0.05		0.06		0.03
E.2	PF	Roof	E	7	0.03	0.05	0.03			0.02		0.05		0.03		0.03
E.2	PF	Roof	H	7	0.07	0.07	0.04			0.03		0.03		0.02		0.02
E.2	PF	Roof	E	8	0.07	0.05	0.07									
E.2	PF	Roof	H	8	0.07	0.05	0.04									
E.2	PF	Roof	E	9			0.07		0.06	0.05						
E.2	PF	Roof	H	9			0.04		0.04	0.04						
E.2	PF	Roof	E	10						0.04	0.06		0.05			
E.2	PF	Roof	H	10						0.03	0.03		0.03			
E.2	PF	Roof	E	11									0.08		0.08	0.07
E.2	PF	Roof	H	11									0.04		0.03	0.04
E.2	PF	Roof	E	12	0.02	0.05	0.04			0.06		0.04		0.04		0.04
E.2	PF	Roof	H	12	0.06	0.05	0.02			0.02		0.02		0.03		0.02
E.2	PF	Roof	E	13	0.04	0.01	0.03			0.01		0.05		0.05		0.03
E.2	PF	Roof	H	13	0.06	0.02	0.03			0.01		0.02		0.03		0.02

Appendix F – MPE Measurement Results for DVR VHF

Table F.1

DVR VHF - MPE measurement data for Bystander

D.U.T. Info.							Probe Info.			MPE Measurements													
										Bystander (BS) Positions													
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.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	E	1.02	BS1	0.006	0.009	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	1.0	0.012	0.01	0.013
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS1	0.008	0.008	0.009	0.01	0.012	0.014	0.014	0.014	0.014	0.014	1.0	0.012	0.01	0.012
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	E	1.02	BS2	0.007	0.011	0.014	0.016	0.022	0.024	0.024	0.024	0.024	0.024	1.0	0.019	0.02	0.020
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS2	0.005	0.008	0.011	0.014	0.017	0.017	0.017	0.017	0.017	0.017	1.0	0.014	0.01	0.015
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	E	1.02	BS3	0.009	0.012	0.02	0.025	0.03	0.032	0.038	0.038	0.038	0.038	1.0	0.028	0.03	0.029
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS3	0.007	0.011	0.014	0.018	0.026	0.031	0.036	0.036	0.036	0.036	1.0	0.025	0.03	0.026
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	E	1.02	BS4	0.012	0.019	0.022	0.024	0.025	0.027	0.033	0.0333	0.033	0.033	1.0	0.026	0.03	0.027
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS4	0.01	0.017	0.02	0.02	0.021	0.027	0.031	0.031	0.031	0.031	1.0	0.024	0.02	0.025
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	E	1.02	BS5	0.01	0.01	0.01	0.014	0.016	0.021	0.026	0.026	0.026	0.026	1.0	0.019	0.02	0.019
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS5	0.015	0.015	0.015	0.015	0.019	0.024	0.024	0.024	0.024	0.024	1.0	0.020	0.02	0.021

Notes:

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

Table F.1 (Continued)

DVR VHF - MPE measurement data for Bystander

D.U.T. Info.							Probe Info.			MPE Measurements														
										Bystander (BS) Positions														
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.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS1	0.006	0.007	0.009	0.013	0.018	0.018	0.018	0.018	0.018	0.018	1.0	0.014	0.01	0.015
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS1	0.002	0.004	0.005	0.006	0.006	0.007	0.007	0.007	0.007	0.007	1.0	0.006	0.01	0.006
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS2	0.006	0.009	0.012	0.017	0.018	0.019	0.02	0.02	0.02	0.02	1.0	0.016	0.02	0.017
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS2	0.002	0.005	0.006	0.009	0.013	0.015	0.015	0.015	0.015	0.015	1.0	0.011	0.01	0.012
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS3	0.007	0.013	0.018	0.019	0.031	0.033	0.036	0.036	0.036	0.036	1.0	0.027	0.03	0.028
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS3	0.007	0.012	0.017	0.019	0.03	0.035	0.04	0.04	0.04	0.04	1.0	0.028	0.03	0.029
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS4	0.013	0.019	0.022	0.024	0.026	0.029	0.031	0.031	0.031	0.031	1.0	0.026	0.03	0.027
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS4	0.013	0.013	0.024	0.025	0.03	0.044	0.044	0.044	0.044	0.044	1.0	0.033	0.03	0.034
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS5	0.014	0.016	0.016	0.016	0.018	0.025	0.026	0.026	0.026	0.026	1.0	0.021	0.02	0.022
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS5	0.008	0.008	0.009	0.009	0.015	0.019	0.019	0.019	0.019	0.019	1.0	0.014	0.01	0.015

Notes:

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

Table F.1 (Continued)

DVR VHF - MPE measurement data for Bystander

D.U.T. Info.							Probe Info.			MPE Measurements														
										Bystander (BS) Positions														
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.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS1	0.003	0.003	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.009	1.0	0.006	0.01	0.007
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	E	1.02	BS1	0.003	0.004	0.005	0.005	0.005	0.005	0.005	0.006	0.006	0.006	1.0	0.005	0.01	0.005
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS1	0.003	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	1.0	0.004	0.00	0.005
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS2	0.002	0.006	0.007	0.01	0.012	0.013	0.014	0.014	0.014	0.014	1.0	0.011	0.01	0.011
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	E	1.02	BS2	0.005	0.009	0.01	0.017	0.017	0.02	0.02	0.02	0.02	0.02	1.0	0.016	0.02	0.016
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS2	0.006	0.009	0.011	0.021	0.027	0.027	0.027	0.027	0.027	0.027	1.0	0.021	0.02	0.022
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS3	0.006	0.011	0.017	0.018	0.027	0.032	0.036	0.036	0.036	0.036	1.0	0.026	0.03	0.027
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	E	1.02	BS3	0.009	0.016	0.021	0.021	0.028	0.044	0.049	0.049	0.049	0.049	1.0	0.034	0.03	0.035
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS3	0.014	0.021	0.027	0.031	0.051	0.051	0.052	0.052	0.052	0.052	1.0	0.040	0.041	0.042
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS4	0.012	0.018	0.021	0.022	0.025	0.032	0.039	0.039	0.039	0.039	1.0	0.029	0.03	0.030
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	E	1.02	BS4	0.011	0.017	0.021	0.023	0.029	0.03	0.034	0.034	0.034	0.034	1.0	0.027	0.03	0.028
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS4	0.016	0.025	0.03	0.031	0.038	0.049	0.051	0.051	0.051	0.051	1.0	0.039	0.04	0.041

MPE calculations are defined in section 15.0.

Table F.1 (Continued)

DVR VHF - MPE measurement data for Bystander

D.U.T. Info.							Probe Info.			MPE Measurements														
										Bystander (BS) Positions														
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.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS5	0.007	0.007	0.007	0.007	0.013	0.018	0.018	0.018	0.018	0.018	1.0	0.013	0.01	0.014
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	E	1.02	BS5	0.01	0.01	0.011	0.011	0.018	0.026	0.026	0.026	0.026	0.026	1.0	0.019	0.02	0.020
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS5	0.01	0.01	0.01	0.012	0.021	0.026	0.026	0.026	0.026	0.026	1.0	0.019	0.02	0.020
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS1	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	1.0	0.005	0.00	0.005
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	E	1.01	BS1	0.002	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	1.0	0.004	0.00	0.004
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	E	1.01	BS1	0.005	0.005	0.005	0.005	0.006	0.008	0.008	0.008	0.008	0.008	1.0	0.007	0.01	0.007
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS2	0.005	0.011	0.011	0.011	0.016	0.016	0.018	0.018	0.018	0.018	1.0	0.014	0.01	0.015
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	E	1.01	BS2	0.005	0.008	0.01	0.014	0.02	0.024	0.026	0.026	0.026	0.026	1.0	0.019	0.02	0.019
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	E	1.01	BS2	0.005	0.006	0.008	0.01	0.015	0.016	0.018	0.018	0.018	0.018	1.0	0.013	0.01	0.014
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS3	0.012	0.015	0.018	0.02	0.028	0.038	0.038	0.038	0.038	0.038	1.0	0.028	0.03	0.029
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	E	1.01	BS3	0.01	0.02	0.025	0.036	0.036	0.048	0.053	0.054	0.054	0.054	1.0	0.039	0.04	0.040
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	E	1.01	BS3	0.012	0.017	0.02	0.021	0.037	0.038	0.043	0.043	0.043	0.043	1.0	0.032	0.03	0.033

MPE calculations are defined in section 15.0.

Table F.1 (Continued)

DVR VHF - MPE measurement data for Bystander

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
										Bystander (BS) Positions													
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		20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS4	0.011	0.017	0.021	0.021	0.024	0.033	0.037	0.037	0.037	0.037	1.0	0.028	0.03	0.029
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	E	1.01	BS4	0.017	0.026	0.032	0.032	0.041	0.05	0.05	0.05	0.05	0.05	1.0	0.040	0.04	0.041
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	E	1.01	BS4	0.021	0.021	0.023	0.024	0.033	0.041	0.042	0.042	0.042	0.042	1.0	0.033	0.03	0.034
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS5	0.006	0.006	0.007	0.007	0.012	0.013	0.021	0.021	0.021	0.021	1.0	0.014	0.01	0.014
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	E	1.01	BS5	0.01	0.01	0.01	0.014	0.021	0.027	0.027	0.027	0.027	0.027	1.0	0.020	0.02	0.020
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	E	1.01	BS5	0.005	0.006	0.006	0.008	0.016	0.016	0.016	0.016	0.016	0.016	1.0	0.012	0.01	0.012

MPE calculations are defined in section 15.0.

Table F.1 (Continued)

DVR VHF - MPE measurement data for Bystander

D.U.T. Info.							Probe Info.			MPE Measurements														
										Bystander (BS) Positions														
[(2)]Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	H	0.88	BS1	0.016	0.016	0.016	0.017	0.018	0.019	0.019	0.023	0.026	0.026	1.0	0.020	0.01	0.012
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS1	0.016	0.016	0.016	0.016	0.017	0.017	0.018	0.021	0.024	0.025	1.0	0.019	0.01	0.010
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	H	0.88	BS2	0.02	0.02	0.021	0.021	0.023	0.026	0.028	0.028	0.031	0.034	1.0	0.025	0.02	0.019
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS2	0.019	0.02	0.021	0.021	0.024	0.026	0.029	0.03	0.032	0.033	1.0	0.026	0.02	0.019
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	H	0.88	BS3	0.022	0.022	0.023	0.025	0.026	0.029	0.031	0.034	0.033	0.033	1.0	0.028	0.02	0.023
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS3	0.016	0.018	0.018	0.021	0.021	0.023	0.025	0.027	0.029	0.03	1.0	0.023	0.01	0.015
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	H	0.88	BS4	0.021	0.021	0.021	0.022	0.024	0.028	0.032	0.033	0.034	0.035	1.0	0.027	0.02	0.022
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS4	0.019	0.019	0.019	0.02	0.022	0.025	0.028	0.028	0.029	0.033	1.0	0.024	0.02	0.017
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	H	0.88	BS5	0.019	0.019	0.019	0.02	0.024	0.026	0.03	0.03	0.03	0.029	1.0	0.025	0.02	0.018
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS5	0.02	0.02	0.02	0.022	0.025	0.028	0.029	0.03	0.029	0.028	1.0	0.025	0.02	0.019

Notes:

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

Table F.1 (Continued)

DVR VHF - MPE measurement data for Bystander

D.U.T. Info.							Probe Info.			MPE Measurements														
										Bystander (BS) Positions														
[(2)]Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS1	0.016	0.017	0.017	0.017	0.017	0.017	0.018	0.02	0.023	0.024	1.0	0.019	0.01	0.010
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS1	0.016	0.017	0.017	0.017	0.018	0.019	0.021	0.023	0.026	0.026	1.0	0.020	0.01	0.012
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS2	0.018	0.019	0.02	0.021	0.024	0.025	0.027	0.029	0.03	0.032	1.0	0.025	0.02	0.018
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS2	0.018	0.018	0.019	0.02	0.021	0.022	0.024	0.025	0.027	0.029	1.0	0.022	0.01	0.015
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS3	0.017	0.018	0.02	0.022	0.022	0.024	0.025	0.028	0.029	0.028	1.0	0.023	0.02	0.016
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS3	0.024	0.024	0.025	0.026	0.026	0.028	0.03	0.034	0.034	0.032	1.0	0.028	0.02	0.024
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS4	0.018	0.018	0.018	0.02	0.022	0.026	0.028	0.029	0.029	0.033	1.0	0.024	0.02	0.017
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS4	0.026	0.026	0.026	0.026	0.026	0.031	0.034	0.035	0.035	0.037	1.0	0.030	0.03	0.027
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS5	0.02	0.02	0.02	0.023	0.026	0.028	0.03	0.031	0.028	0.027	1.0	0.025	0.02	0.019
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS5	0.022	0.022	0.022	0.023	0.027	0.028	0.029	0.029	0.028	0.027	1.0	0.026	0.02	0.019

Notes:

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

Table F.1 (Continued)

DVR VHF - MPE measurement data for Bystander

D.U.T. Info.							Probe Info.			MPE Measurements														
										Bystander (BS) Positions														
[(2)]Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS1	0.016	0.016	0.016	0.018	0.018	0.02	0.02	0.025	0.027	0.026	1.0	0.020	0.01	0.012
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	H	0.86	BS1	0.017	0.017	0.017	0.017	0.018	0.019	0.02	0.022	0.023	0.023	1.0	0.019	0.01	0.011
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS1	0.017	0.019	0.019	0.02	0.02	0.021	0.021	0.023	0.026	0.026	1.0	0.021	0.01	0.013
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS2	0.017	0.018	0.018	0.019	0.02	0.02	0.022	0.025	0.027	0.028	1.0	0.021	0.01	0.013
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	H	0.86	BS2	0.018	0.02	0.02	0.021	0.023	0.023	0.024	0.026	0.027	0.028	1.0	0.023	0.01	0.015
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS2	0.02	0.02	0.02	0.021	0.025	0.025	0.027	0.03	0.03	0.03	1.0	0.025	0.02	0.017
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS3	0.022	0.023	0.024	0.025	0.025	0.027	0.029	0.031	0.031	0.031	1.0	0.027	0.02	0.021
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	H	0.86	BS3	0.022	0.022	0.023	0.024	0.024	0.024	0.024	0.026	0.026	0.026	1.0	0.024	0.02	0.016
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS3	0.026	0.027	0.027	0.03	0.03	0.033	0.034	0.035	0.035	0.033	1.0	0.031	0.03	0.027
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS4	0.025	0.025	0.025	0.026	0.027	0.031	0.033	0.035	0.036	0.039	1.0	0.030	0.03	0.027
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	H	0.86	BS4	0.025	0.026	0.026	0.026	0.026	0.03	0.031	0.032	0.032	0.031	1.0	0.029	0.02	0.023
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS4	0.028	0.028	0.028	0.028	0.03	0.034	0.036	0.036	0.036	0.037	1.0	0.032	0.03	0.029

MPE calculations are defined in section 15.0.

Table F.1 (Continued)

DVR VHF - MPE measurement data for Bystander

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
										Bystander (BS) Positions													
[(2)]Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS5	0.021	0.021	0.021	0.023	0.026	0.027	0.029	0.029	0.029	0.028	1.0	0.025	0.02	0.019
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	H	0.86	BS5	0.023	0.023	0.023	0.025	0.028	0.03	0.031	0.031	0.031	0.03	1.0	0.028	0.02	0.021
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS5	0.022	0.022	0.022	0.025	0.029	0.03	0.032	0.032	0.032	0.031	1.0	0.028	0.02	0.022
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS1	0.017	0.017	0.017	0.017	0.017	0.018	0.019	0.021	0.023	0.023	1.0	0.019	0.01	0.010
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	H	0.85	BS1	0.016	0.016	0.016	0.018	0.018	0.02	0.021	0.023	0.026	0.02	1.0	0.019	0.01	0.010
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	H	0.84	BS1	0.016	0.016	0.016	0.017	0.019	0.021	0.022	0.024	0.025	0.026	1.0	0.020	0.01	0.011
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS2	0.016	0.016	0.018	0.019	0.022	0.023	0.025	0.026	0.034	0.03	1.0	0.023	0.01	0.015
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	H	0.85	BS2	0.016	0.017	0.018	0.017	0.02	0.022	0.024	0.026	0.029	0.027	1.0	0.022	0.01	0.013
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	H	0.84	BS2	0.017	0.018	0.018	0.019	0.021	0.023	0.024	0.026	0.028	0.026	1.0	0.022	0.01	0.013
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS3	0.022	0.022	0.024	0.025	0.026	0.028	0.029	0.031	0.029	0.028	1.0	0.026	0.02	0.020
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	H	0.85	BS3	0.026	0.028	0.029	0.03	0.03	0.032	0.033	0.036	0.036	0.034	1.0	0.031	0.03	0.027
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	H	0.84	BS3	0.025	0.028	0.028	0.029	0.03	0.032	0.034	0.034	0.035	0.035	1.0	0.031	0.03	0.026

MPE calculations are defined in section 15.0.

Table F.1 (Continued)

DVR VHF - MPE measurement data for Bystander

D.U.T. Info.							Probe Info.			MPE Measurements														
										Bystander (BS) Positions														
[(2)]Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS4	0.023	0.023	0.023	0.024	0.025	0.028	0.03	0.03	0.03	0.032	1.0	0.027	0.02	0.020
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	H	0.85	BS4	0.028	0.028	0.028	0.03	0.032	0.037	0.038	0.038	0.038	0.038	1.0	0.034	0.03	0.031
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	H	0.84	BS4	0.028	0.029	0.029	0.03	0.033	0.036	0.038	0.038	0.039	0.039	1.0	0.034	0.03	0.031
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS5	0.02	0.02	0.02	0.021	0.024	0.026	0.027	0.027	0.028	0.028	1.0	0.024	0.02	0.017
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	H	0.85	BS5	0.021	0.021	0.021	0.024	0.029	0.029	0.03	0.03	0.028	0.028	1.0	0.026	0.02	0.019
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	H	0.84	BS5	0.02	0.02	0.02	0.023	0.027	0.027	0.028	0.028	0.028	0.026	1.0	0.025	0.02	0.016

MPE calculations are defined in section 15.0.

Table F.2

DVR VHF - MPE measurement data for Passenger

D.U.T. Info.							Probe Info.			MPE Measurements						
										Passenger/Operator (MC) Positions						
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.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	E	1.02	PB	0.28	0.164	0.114	1.0	0.186	0.19	0.196
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	PB	0.181	0.166	0.132	1.0	0.160	0.16	0.168
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	PB	0.141	0.153	0.123	1.0	0.139	0.14	0.146
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	PB	0.131	0.098	0.064	1.0	0.098	0.10	0.103
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	PB	0.106	0.09	0.083	1.0	0.093	0.09	0.098
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	E	1.02	PB	0.153	0.137	0.107	1.0	0.132	0.13	0.137
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	PB	0.202	0.254	0.206	1.0	0.221	0.225	0.230
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	PB	0.147	0.185	0.165	1.0	0.166	0.17	0.172
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	E	1.01	PB	0.11	0.194	0.169	1.0	0.158	0.16	0.161
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	E	1.01	PB	0.158	0.197	0.185	1.0	0.180	0.18	0.185

Notes:

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

Table F.2 (Continued)

DVR VHF - MPE measurement data for Passenger

D.U.T. Info.							Probe Info.			MPE Measurements						
										Passenger/Operator (MC) Positions						
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.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	H	0.88	PB	0.068	0.057	0.057	1.0	0.061	0.11	0.111
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	PB	0.055	0.067	0.047	1.0	0.056	0.09	0.093
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	PB	0.05	0.055	0.046	1.0	0.050	0.07	0.074
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	PB	0.056	0.067	0.048	1.0	0.057	0.09	0.096
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	PB	0.054	0.052	0.046	1.0	0.051	0.07	0.076
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	H	0.86	PB	0.065	0.088	0.06	1.0	0.071	0.14	0.142
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	PB	0.068	0.081	0.086	1.0	0.078	0.17	0.175
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	PB	0.059	0.067	0.068	1.0	0.065	0.12	0.119
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	H	0.85	PB	0.064	0.078	0.086	1.0	0.076	0.16	0.159
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	H	0.84	PB	0.05	0.064	0.062	1.0	0.059	0.09	0.093

Notes:

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

Table F.2 (Continued)

DVR VHF - MPE measurement data for Passenger

D.U.T. Info.							Probe Info.			MPE Measurements						
										Passenger/Operator (MC) Positions						
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.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	E	1.02	PF	0.011	0.015	0.015	1.0	0.014	0.01	0.014
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	PF	0.015	0.015	0.022	1.0	0.017	0.02	0.018
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	PF	0.017	0.016	0.026	1.0	0.020	0.02	0.021
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	PF	0.023	0.023	0.019	1.0	0.022	0.02	0.023
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	PF	0.023	0.023	0.024	1.0	0.023	0.02	0.025
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	E	1.02	PF	0.031	0.031	0.034	1.0	0.032	0.03	0.033
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	PF	0.027	0.03	0.038	1.0	0.032	0.03	0.033
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	PF	0.018	0.022	0.027	1.0	0.022	0.02	0.023
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	E	1.01	PF	0.014	0.023	0.035	1.0	0.024	0.02	0.024
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	E	1.01	PF	0.012	0.022	0.045	1.0	0.026	0.03	0.027

Notes:

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

Table F.2 (Continued)

DVR VHF - MPE measurement data for Passenger

D.U.T. Info.							Probe Info.			MPE Measurements						
										Passenger/Operator (MC) Positions						
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.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	H	0.88	PF	0.03	0.028	0.022	1.0	0.027	0.02	0.021
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	PF	0.031	0.03	0.025	1.0	0.029	0.02	0.024
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	PF	0.031	0.031	0.025	1.0	0.029	0.02	0.025
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	PF	0.032	0.033	0.029	1.0	0.031	0.03	0.029
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	PF	0.033	0.033	0.026	1.0	0.031	0.03	0.028
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	H	0.86	PF	0.039	0.037	0.031	1.0	0.036	0.04	0.036
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	PF	0.038	0.036	0.031	1.0	0.035	0.03	0.035
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	PF	0.032	0.033	0.029	1.0	0.031	0.03	0.028
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	H	0.85	PF	0.032	0.034	0.038	1.0	0.035	0.03	0.033
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	H	0.84	PF	0.023	0.03	0.031	1.0	0.028	0.02	0.021

Notes:

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

Appendix G – MPE Measurement Results for APX4500 VHF

Table G.1

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS1	0.042	0.062	0.072	0.068	0.064	0.071	0.072	0.082	0.081	0.077	0.5	0.071	0.036	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS1	0.038	0.06	0.068	0.062	0.057	0.049	0.05	0.056	0.056	0.053	0.5	0.056	0.028	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS1	0.055	0.082	0.087	0.08	0.074	0.071	0.076	0.08	0.079	0.071	0.5	0.077	0.039	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS1	0.04	0.055	0.055	0.045	0.04	0.037	0.042	0.046	0.047	0.044	0.5	0.046	0.023	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS1	0.041	0.058	0.056	0.045	0.04	0.08	0.044	0.046	0.044	0.043	0.5	0.051	0.025	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS1	0.045	0.057	0.03	0.034	0.03	0.03	0.035	0.037	0.04	0.048	0.5	0.039	0.020	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS1	0.04	0.051	0.046	0.035	0.027	0.031	0.04	0.048	0.056	0.068	0.5	0.045	0.023	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS2	0.014	0.028	0.039	0.041	0.041	0.04	0.04	0.041	0.04	0.034	0.5	0.037	0.018	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS2	0.031	0.053	0.069	0.071	0.072	0.07	0.07	0.075	0.071	0.071	0.5	0.067	0.033	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS2	0.043	0.067	0.081	0.085	0.087	0.09	0.097	0.104	0.104	0.1	0.5	0.088	0.044	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS2	0.037	0.058	0.07	0.075	0.07	0.066	0.07	0.064	0.063	0.058	0.5	0.064	0.032	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS2	0.054	0.081	0.099	0.088	0.084	0.084	0.091	0.094	0.092	0.091	0.5	0.088	0.044	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS2	0.046	0.06	0.059	0.063	0.062	0.065	0.072	0.073	0.07	0.067	0.5	0.065	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS2	0.045	0.06	0.067	0.061	0.066	0.071	0.078	0.081	0.08	0.078	0.5	0.070	0.04	0.04

Notes:

MPE calculations are defined in section 15.0
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Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS3	0.016	0.037	0.05	0.055	0.053	0.05	0.05	0.04	0.043	0.036	0.5	0.044	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS3	0.02	0.034	0.037	0.047	0.048	0.048	0.043	0.042	0.043	0.04	0.5	0.041	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS3	0.016	0.026	0.032	0.03	0.032	0.031	0.032	0.034	0.038	0.038	0.5	0.032	0.016	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS3	0.026	0.044	0.055	0.06	0.06	0.062	0.064	0.068	0.07	0.066	0.5	0.059	0.029	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS3	0.025	0.041	0.047	0.048	0.05	0.055	0.06	0.063	0.067	0.066	0.5	0.053	0.027	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS3	0.027	0.038	0.042	0.044	0.049	0.055	0.058	0.06	0.061	0.057	0.5	0.050	0.025	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS3	0.02	0.022	0.042	0.046	0.044	0.046	0.047	0.048	0.046	0.042	0.5	0.041	0.021	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS4	0.022	0.022	0.037	0.049	0.055	0.059	0.062	0.062	0.059	0.06	0.5	0.050	0.025	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS4	0.02	0.031	0.039	0.043	0.046	0.044	0.05	0.05	0.046	0.047	0.5	0.042	0.021	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS4	0.008	0.012	0.017	0.018	0.018	0.02	0.02	0.021	0.021	0.023	0.5	0.018	0.009	0.01
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS4	0.026	0.041	0.052	0.057	0.055	0.045	0.051	0.043	0.045	0.043	0.5	0.047	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS4	0.023	0.036	0.043	0.050	0.047	0.044	0.044	0.041	0.042	0.036	0.5	0.041	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS4	0.028	0.043	0.055	0.044	0.065	0.060	0.058	0.053	0.048	0.04	0.5	0.050	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS4	0.023	0.035	0.043	0.04	0.037	0.034	0.029	0.029	0.022	0.02	0.5	0.032	0.016	0.02

Notes:

MPE calculations are defined in section 15.0
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Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS5	0.02	0.033	0.037	0.035	0.027	0.02	0.02	0.021	0.025	0.027	0.5	0.027	0.014	0.01
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS5	0.016	0.026	0.03	0.028	0.022	0.020	0.019	0.021	0.025	0.027	0.5	0.024	0.01	0.01
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS5	0.009	0.015	0.019	0.019	0.017	0.019	0.02	0.023	0.025	0.025	0.5	0.019	0.010	0.01
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS5	0.026	0.045	0.051	0.05	0.051	0.051	0.056	0.057	0.056	0.053	0.5	0.051	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS5	0.022	0.031	0.032	0.029	0.026	0.028	0.03	0.03	0.027	0.024	0.5	0.028	0.01	0.01
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS5	0.035	0.051	0.051	0.041	0.038	0.03	0.031	0.035	0.035	0.034	0.5	0.039	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS5	0.027	0.036	0.035	0.027	0.024	0.023	0.023	0.025	0.021	0.015	0.5	0.026	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS1	0.015	0.03	0.036	0.032	0.03	0.028	0.037	0.055	0.074	0.088	0.5	0.044	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS1	0.022	0.035	0.04	0.032	0.023	0.021	0.031	0.045	0.065	0.076	0.5	0.040	0.020	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS1	0.016	0.028	0.03	0.025	0.02	0.024	0.042	0.063	0.087	0.097	0.5	0.044	0.022	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS1	0.024	0.035	0.036	0.027	0.025	0.022	0.03	0.045	0.061	0.076	0.5	0.039	0.019	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS1	0.026	0.035	0.038	0.03	0.028	0.025	0.036	0.05	0.061	0.072	0.5	0.041	0.020	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS1	0.026	0.034	0.03	0.028	0.026	0.032	0.05	0.067	0.092	0.114	0.5	0.051	0.025	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS1	0.042	0.05	0.041	0.03	0.03	0.044	0.07	0.099	0.122	0.144	0.5	0.069	0.034	0.03

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS2	0.014	0.025	0.031	0.03	0.025	0.028	0.041	0.04	0.052	0.061	0.5	0.036	0.018	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS2	0.01	0.021	0.026	0.024	0.019	0.021	0.032	0.045	0.058	0.068	0.5	0.033	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS2	0.008	0.022	0.031	0.031	0.033	0.038	0.048	0.06	0.072	0.079	0.5	0.043	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS2	0.02	0.03	0.037	0.031	0.028	0.032	0.037	0.044	0.048	0.048	0.5	0.036	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS2	0.034	0.054	0.061	0.054	0.05	0.054	0.065	0.084	0.088	0.106	0.5	0.066	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS2	0.029	0.042	0.042	0.036	0.031	0.038	0.048	0.062	0.071	0.082	0.5	0.049	0.02	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS2	0.036	0.053	0.056	0.057	0.061	0.073	0.089	0.106	0.112	0.121	0.5	0.078	0.04	0.04
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS3	0.01	0.017	0.021	0.019	0.016	0.012	0.014	0.016	0.022	0.025	0.5	0.018	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS3	0.008	0.011	0.015	0.017	0.016	0.018	0.022	0.028	0.033	0.036	0.5	0.021	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS3	0.009	0.015	0.019	0.022	0.02	0.022	0.024	0.028	0.031	0.033	0.5	0.023	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS3	0.011	0.018	0.02	0.022	0.02	0.021	0.022	0.029	0.032	0.035	0.5	0.023	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS3	0.024	0.032	0.038	0.04	0.045	0.047	0.06	0.068	0.072	0.073	0.5	0.051	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS3	0.017	0.023	0.025	0.027	0.028	0.031	0.037	0.041	0.047	0.046	0.5	0.033	0.02	0.02

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS4	0.008	0.014	0.019	0.019	0.019	0.023	0.024	0.025	0.028	0.031	0.5	0.022	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS4	0.007	0.013	0.019	0.02	0.019	0.019	0.017	0.02	0.021	0.02	0.5	0.018	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS4	0.009	0.013	0.019	0.017	0.018	0.019	0.021	0.021	0.02	0.022	0.5	0.018	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS4	0.010	0.02	0.022	0.023	0.021	0.023	0.022	0.023	0.023	0.02	0.5	0.021	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS4	0.021	0.033	0.039	0.042	0.04	0.038	0.038	0.038	0.036	0.036	0.5	0.037	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS4	0.02	0.027	0.033	0.033	0.035	0.031	0.029	0.028	0.029	0.026	0.5	0.030	0.015	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS4	0.03	0.04	0.046	0.045	0.048	0.042	0.032	0.028	0.025	0.027	0.5	0.037	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS5	0.007	0.009	0.009	0.008	0.007	0.008	0.011	0.018	0.023	0.025	0.5	0.013	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS5	0.008	0.015	0.016	0.015	0.011	0.012	0.013	0.017	0.018	0.023	0.5	0.015	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS5	0.01	0.016	0.017	0.013	0.011	0.01	0.011	0.01	0.014	0.019	0.5	0.013	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS5	0.007	0.015	0.012	0.012	0.015	0.017	0.021	0.024	0.026	0.025	0.5	0.018	0.009	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS5	0.011	0.014	0.01	0.014	0.014	0.014	0.014	0.016	0.018	0.016	0.5	0.014	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS5	0.022	0.025	0.024	0.022	0.019	0.02	0.024	0.025	0.025	0.024	0.5	0.023	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS5	0.027	0.029	0.025	0.019	0.017	0.018	0.024	0.024	0.023	0.022	0.5	0.023	0.01	0.01

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS1	0.032	0.041	0.052	0.06	0.056	0.046	0.055	0.073	0.096	0.1	0.5	0.063	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS1	0.025	0.038	0.042	0.036	0.03	0.03	0.036	0.051	0.065	0.075	0.5	0.044	0.022	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS1	0.024	0.04	0.046	0.044	0.04	0.04	0.054	0.067	0.082	0.097	0.5	0.054	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS1	0.023	0.036	0.041	0.034	0.03	0.034	0.046	0.054	0.071	0.080	0.5	0.046	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS1	0.045	0.06	0.056	0.042	0.034	0.04	0.054	0.065	0.074	0.086	0.5	0.057	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS1	0.052	0.064	0.057	0.04	0.033	0.038	0.054	0.080	0.101	0.123	0.5	0.065	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS1	0.041	0.048	0.041	0.03	0.03	0.041	0.058	0.081	0.101	0.117	0.5	0.060	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS2	0.015	0.025	0.032	0.027	0.036	0.039	0.044	0.055	0.069	0.077	0.5	0.043	0.022	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS2	0.009	0.023	0.031	0.031	0.033	0.038	0.047	0.062	0.072	0.084	0.5	0.044	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS2	0.024	0.039	0.05	0.058	0.062	0.067	0.077	0.087	0.095	0.105	0.5	0.068	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS2	0.015	0.028	0.036	0.033	0.032	0.034	0.04	0.043	0.049	0.05	0.5	0.037	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS2	0.042	0.063	0.074	0.073	0.075	0.078	0.088	0.097	0.101	0.109	0.5	0.082	0.041	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS2	0.043	0.064	0.068	0.062	0.063	0.07	0.08	0.087	0.084	0.093	0.5	0.073	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS2	0.04	0.058	0.063	0.068	0.067	0.072	0.085	0.093	0.106	0.106	0.5	0.077	0.04	0.04

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS3	0.01	0.015	0.019	0.022	0.022	0.024	0.026	0.029	0.037	0.043	0.5	0.025	0.013	0.01
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS3	0.01	0.018	0.027	0.031	0.033	0.035	0.04	0.046	0.053	0.056	0.5	0.036	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS3	0.016	0.025	0.028	0.032	0.033	0.035	0.037	0.043	0.046	0.05	0.5	0.035	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS3	0.016	0.026	0.03	0.035	0.037	0.041	0.043	0.048	0.052	0.054	0.5	0.039	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS3	0.029	0.04	0.048	0.05	0.052	0.061	0.074	0.082	0.087	0.078	0.5	0.061	0.031	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS3	0.027	0.035	0.042	0.045	0.058	0.069	0.071	0.08	0.083	0.078	0.5	0.060	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS3	0.032	0.042	0.045	0.049	0.053	0.057	0.061	0.06	0.062	0.059	0.5	0.053	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS4	0.016	0.022	0.029	0.032	0.038	0.039	0.042	0.046	0.049	0.053	0.5	0.038	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS4	0.013	0.021	0.025	0.027	0.03	0.032	0.027	0.03	0.033	0.034	0.5	0.028	0.01	0.01
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS4	0.009	0.024	0.021	0.023	0.026	0.025	0.031	0.032	0.033	0.034	0.5	0.026	0.01	0.01
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS4	0.02	0.029	0.037	0.039	0.04	0.041	0.042	0.041	0.04	0.039	0.5	0.038	0.019	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS4	0.026	0.035	0.044	0.046	0.049	0.049	0.04	0.047	0.04	0.043	0.5	0.043	0.021	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS4	0.033	0.05	0.063	0.065	0.064	0.068	0.057	0.059	0.055	0.046	0.5	0.057	0.029	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS4	0.027	0.04	0.05	0.041	0.047	0.042	0.033	0.034	0.032	0.028	0.5	0.038	0.019	0.02

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS5	0.014	0.02	0.024	0.021	0.019	0.017	0.021	0.024	0.03	0.034	0.5	0.023	0.012	0.01
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS5	0.013	0.023	0.028	0.026	0.021	0.019	0.02	0.022	0.027	0.031	0.5	0.023	0.012	0.01
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS5	0.015	0.018	0.022	0.018	0.014	0.013	0.015	0.019	0.021	0.022	0.5	0.018	0.009	0.01
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS5	0.021	0.027	0.033	0.037	0.037	0.044	0.05	0.051	0.048	0.048	0.5	0.040	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS5	0.017	0.022	0.022	0.022	0.022	0.024	0.025	0.025	0.022	0.02	0.5	0.023	0.01	0.01
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS5	0.037	0.049	0.049	0.04	0.035	0.034	0.038	0.038	0.041	0.037	0.5	0.041	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS5	0.027	0.034	0.032	0.023	0.022	0.021	0.023	0.026	0.024	0.018	0.5	0.026	0.01	0.01
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS1	0.045	0.065	0.078	0.081	0.075	0.072	0.077	0.082	0.086	0.082	0.5	0.077	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS1	0.058	0.089	0.106	0.104	0.085	0.076	0.083	0.088	0.086	0.082	0.5	0.087	0.044	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS1	0.04	0.055	0.06	0.052	0.042	0.042	0.045	0.05	0.05	0.047	0.5	0.049	0.02	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS1	0.049	0.07	0.074	0.06	0.048	0.048	0.049	0.049	0.05	0.048	0.5	0.056	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS1	0.036	0.051	0.053	0.041	0.035	0.033	0.03	0.033	0.032	0.034	0.5	0.039	0.02	0.02

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS2	0.028	0.054	0.074	0.08	0.08	0.072	0.072	0.076	0.076	0.07	0.5	0.070	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS2	0.045	0.075	0.091	0.101	0.1	0.103	0.11	0.106	0.107	0.113	0.5	0.097	0.049	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS2	0.022	0.036	0.044	0.046	0.044	0.042	0.044	0.045	0.043	0.039	0.5	0.041	0.02	0.02
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS2	0.051	0.074	0.085	0.086	0.084	0.087	0.092	0.087	0.089	0.08	0.5	0.083	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS2	0.049	0.068	0.071	0.065	0.06	0.063	0.065	0.067	0.06	0.06	0.5	0.064	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS3	0.018	0.033	0.048	0.054	0.056	0.055	0.056	0.045	0.043	0.046	0.5	0.047	0.02	0.02
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS3	0.022	0.033	0.037	0.042	0.038	0.039	0.04	0.041	0.043	0.043	0.5	0.039	0.019	0.02
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS3	0.03	0.049	0.064	0.07	0.074	0.077	0.079	0.08	0.079	0.072	0.5	0.069	0.03	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS3	0.03	0.048	0.06	0.058	0.061	0.067	0.077	0.082	0.086	0.086	0.5	0.067	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS3	0.022	0.032	0.036	0.038	0.035	0.038	0.042	0.039	0.04	0.042	0.5	0.037	0.02	0.02
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS4	0.021	0.038	0.046	0.054	0.057	0.055	0.053	0.057	0.054	0.053	0.5	0.050	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS4	0.011	0.016	0.018	0.022	0.022	0.022	0.021	0.024	0.03	0.03	0.5	0.022	0.01	0.01
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS4	0.031	0.046	0.06	0.054	0.054	0.062	0.051	0.051	0.049	0.054	0.5	0.052	0.026	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS4	0.031	0.046	0.058	0.062	0.058	0.05	0.053	0.05	0.06	0.059	0.5	0.054	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS4	0.025	0.038	0.044	0.05	0.049	0.044	0.045	0.041	0.036	0.029	0.5	0.041	0.02	0.02

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS5	0.022	0.035	0.043	0.041	0.033	0.028	0.025	0.028	0.03	0.031	0.5	0.033	0.016	0.02
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS5	0.006	0.015	0.018	0.018	0.018	0.018	0.02	0.023	0.023	0.025	0.5	0.019	0.01	0.01
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS5	0.025	0.041	0.051	0.055	0.056	0.056	0.059	0.063	0.058	0.055	0.5	0.053	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS5	0.02	0.029	0.033	0.031	0.031	0.036	0.034	0.032	0.031	0.028	0.5	0.031	0.016	0.02
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS5	0.026	0.033	0.035	0.033	0.032	0.036	0.041	0.042	0.042	0.038	0.5	0.037	0.018	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	E	1.02	BS1	0.048	0.079	0.086	0.08	0.074	0.07	0.067	0.072	0.07	0.065	0.5	0.073	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS1	0.03	0.055	0.055	0.054	0.037	0.041	0.04	0.044	0.049	0.048	0.5	0.046	0.023	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS1	0.052	0.064	0.064	0.054	0.046	0.046	0.05	0.05	0.047	0.044	0.5	0.053	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS1	0.056	0.062	0.054	0.04	0.033	0.036	0.04	0.041	0.046	0.052	0.5	0.047	0.02	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS1	0.05	0.06	0.054	0.04	0.032	0.033	0.044	0.052	0.06	0.072	0.5	0.051	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	E	1.02	BS2	0.035	0.054	0.062	0.065	0.065	0.066	0.07	0.074	0.078	0.076	0.5	0.066	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS2	0.024	0.04	0.045	0.05	0.046	0.044	0.041	0.041	0.04	0.036	0.5	0.042	0.021	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS2	0.048	0.07	0.081	0.076	0.073	0.072	0.076	0.075	0.074	0.074	0.5	0.073	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS2	0.055	0.075	0.087	0.07	0.071	0.072	0.08	0.084	0.08	0.077	0.5	0.077	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS2	0.051	0.072	0.075	0.076	0.075	0.083	0.09	0.09	0.092	0.09	0.5	0.081	0.04	0.04

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	E	1.02	BS3	0.006	0.021	0.026	0.026	0.024	0.023	0.023	0.024	0.026	0.026	0.5	0.023	0.01	0.01
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	E	1.02	BS3	0.012	0.02	0.025	0.026	0.023	0.025	0.027	0.027	0.03	0.028	0.5	0.025	0.01	0.01
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS3	0.024	0.037	0.048	0.054	0.056	0.055	0.06	0.061	0.059	0.055	0.5	0.052	0.026	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS3	0.031	0.04	0.049	0.051	0.051	0.057	0.062	0.068	0.064	0.064	0.5	0.055	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS3	0.032	0.042	0.049	0.054	0.057	0.063	0.068	0.07	0.065	0.06	0.5	0.057	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS3	0.031	0.041	0.052	0.051	0.057	0.055	0.056	0.06	0.05	0.046	0.5	0.051	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	E	1.02	BS4	0.008	0.014	0.016	0.018	0.016	0.014	0.015	0.014	0.016	0.014	0.5	0.015	0.01	0.01
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS4	0.024	0.035	0.042	0.044	0.043	0.047	0.047	0.043	0.035	0.034	0.5	0.040	0.02	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS4	0.028	0.037	0.046	0.053	0.048	0.046	0.039	0.043	0.044	0.034	0.5	0.043	0.021	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS4	0.039	0.059	0.071	0.082	0.083	0.068	0.067	0.071	0.062	0.053	0.5	0.067	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS4	0.026	0.044	0.049	0.051	0.048	0.041	0.035	0.031	0.028	0.024	0.5	0.038	0.02	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	E	1.02	BS5	0.006	0.015	0.016	0.018	0.017	0.018	0.016	0.018	0.017	0.016	0.5	0.016	0.008	0.01
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS5	0.019	0.032	0.041	0.042	0.043	0.042	0.045	0.044	0.044	0.042	0.5	0.040	0.02	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS5	0.023	0.029	0.031	0.029	0.029	0.031	0.031	0.031	0.027	0.022	0.5	0.029	0.01	0.01
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS5	0.042	0.058	0.06	0.052	0.046	0.039	0.041	0.044	0.041	0.042	0.5	0.047	0.024	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS5	0.029	0.04	0.039	0.033	0.027	0.025	0.024	0.023	0.022	0.018	0.5	0.029	0.014	0.01

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS1	0.053	0.073	0.087	0.087	0.077	0.071	0.08	0.09	0.094	0.09	0.5	0.083	0.04	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS1	0.042	0.071	0.087	0.071	0.056	0.051	0.053	0.06	0.064	0.062	0.5	0.063	0.03	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS1	0.06	0.086	0.097	0.102	0.084	0.076	0.082	0.087	0.088	0.084	0.5	0.086	0.043	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS2	0.034	0.063	0.083	0.088	0.088	0.082	0.085	0.086	0.085	0.08	0.5	0.080	0.040	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS2	0.042	0.052	0.092	0.1	0.097	0.096	0.098	0.096	0.096	0.091	0.5	0.088	0.044	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS2	0.052	0.08	0.101	0.105	0.105	0.106	0.115	0.12	0.12	0.115	0.5	0.104	0.052	0.05
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS3	0.019	0.037	0.056	0.057	0.066	0.061	0.05	0.052	0.054	0.05	0.5	0.052	0.026	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS3	0.026	0.04	0.055	0.058	0.06	0.06	0.056	0.056	0.056	0.055	0.5	0.053	0.027	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS3	0.021	0.037	0.042	0.041	0.037	0.043	0.047	0.051	0.056	0.056	0.5	0.044	0.022	0.02
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS4	0.022	0.036	0.053	0.061	0.064	0.059	0.059	0.059	0.059	0.057	0.5	0.054	0.027	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS4	0.015	0.026	0.036	0.036	0.04	0.037	0.043	0.04	0.035	0.035	0.5	0.035	0.017	0.02
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS4	0.013	0.019	0.023	0.024	0.025	0.025	0.025	0.03	0.034	0.037	0.5	0.026	0.013	0.01

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS5	0.023	0.04	0.046	0.045	0.035	0.029	0.027	0.03	0.034	0.036	0.5	0.036	0.018	0.02
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS5	0.019	0.025	0.028	0.025	0.019	0.016	0.017	0.019	0.023	0.026	0.5	0.022	0.011	0.01
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS5	0.006	0.017	0.021	0.021	0.02	0.022	0.023	0.025	0.028	0.029	0.5	0.022	0.011	0.01
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS1	0.061	0.087	0.1	0.097	0.077	0.075	0.084	0.09	0.092	0.084	0.5	0.086	0.043	0.04
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	E	1.02	BS1	0.058	0.083	0.092	0.08	0.065	0.06	0.076	0.081	0.083	0.088	0.5	0.078	0.039	0.04
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS1	0.04	0.055	0.055	0.047	0.038	0.044	0.05	0.052	0.053	0.051	0.5	0.049	0.025	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS2	0.05	0.08	0.1	0.102	0.102	0.103	0.109	0.116	0.115	0.111	0.5	0.101	0.050	0.05
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	E	1.02	BS2	0.031	0.052	0.064	0.064	0.06	0.06	0.061	0.067	0.067	0.07	0.5	0.061	0.030	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS2	0.023	0.041	0.052	0.05	0.048	0.045	0.047	0.046	0.042	0.04	0.5	0.044	0.022	0.02
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS3	0.022	0.034	0.041	0.042	0.04	0.04	0.041	0.041	0.046	0.047	0.5	0.040	0.020	0.02
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	E	1.02	BS3	0.028	0.049	0.06	0.062	0.064	0.057	0.062	0.063	0.062	0.059	0.5	0.058	0.029	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS3	0.037	0.057	0.07	0.073	0.078	0.08	0.078	0.087	0.08	0.076	0.5	0.073	0.04	0.04

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS4	0.011	0.018	0.023	0.025	0.02	0.022	0.022	0.025	0.026	0.031	0.5	0.023	0.01	0.01
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	E	1.02	BS4	0.029	0.032	0.055	0.056	0.057	0.052	0.052	0.045	0.043	0.048	0.5	0.048	0.02	0.02
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS4	0.031	0.046	0.057	0.063	0.059	0.052	0.065	0.056	0.05	0.054	0.5	0.054	0.03	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS5	0.008	0.015	0.016	0.02	0.017	0.019	0.021	0.024	0.026	0.028	0.5	0.020	0.010	0.01
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	E	1.02	BS5	0.021	0.037	0.045	0.047	0.044	0.041	0.039	0.035	0.031	0.027	0.5	0.037	0.019	0.02
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS5	0.026	0.043	0.054	0.055	0.057	0.06	0.062	0.061	0.061	0.055	0.5	0.054	0.027	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS1	0.044	0.062	0.062	0.053	0.043	0.047	0.044	0.054	0.055	0.051	0.5	0.053	0.026	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS1	0.068	0.088	0.09	0.069	0.061	0.061	0.066	0.064	0.062	0.056	0.5	0.070	0.035	0.04
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS1	0.048	0.063	0.061	0.052	0.043	0.04	0.04	0.04	0.04	0.04	0.5	0.048	0.024	0.02
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS2	0.020	0.034	0.046	0.041	0.043	0.041	0.040	0.04	0.036	0.035	0.5	0.038	0.02	0.02
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS2	0.054	0.081	0.092	0.092	0.095	0.092	0.092	0.097	0.09	0.085	0.5	0.089	0.04	0.05
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS2	0.061	0.09	0.097	0.083	0.077	0.078	0.087	0.085	0.08	0.08	0.5	0.083	0.04	0.04

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS3	0.028	0.045	0.054	0.061	0.061	0.063	0.067	0.068	0.066	0.063	0.5	0.059	0.03	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS3	0.035	0.05	0.063	0.063	0.061	0.074	0.074	0.085	0.087	0.085	0.5	0.069	0.035	0.04
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS3	0.037	0.041	0.041	0.048	0.049	0.053	0.051	0.06	0.057	0.052	0.5	0.050	0.02	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS4	0.025	0.041	0.048	0.05	0.05	0.05	0.045	0.044	0.049	0.044	0.5	0.045	0.02	0.02
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS4	0.033	0.042	0.053	0.059	0.06	0.061	0.053	0.053	0.053	0.049	0.5	0.053	0.03	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS4	0.035	0.05	0.061	0.066	0.061	0.061	0.056	0.048	0.045	0.044	0.5	0.054	0.03	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS5	0.022	0.034	0.041	0.048	0.048	0.047	0.048	0.047	0.046	0.042	0.5	0.043	0.02	0.02
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS5	0.023	0.033	0.038	0.038	0.035	0.036	0.034	0.034	0.031	0.03	0.5	0.034	0.02	0.02
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS5	0.038	0.051	0.054	0.056	0.056	0.057	0.061	0.062	0.064	0.06	0.5	0.057	0.029	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS1	0.041	0.051	0.052	0.043	0.034	0.038	0.038	0.037	0.035	0.034	0.5	0.041	0.021	0.02
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	E	1.02	BS1	0.044	0.045	0.04	0.03	0.025	0.033	0.036	0.042	0.046	0.056	0.5	0.040	0.020	0.02
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS1	0.054	0.062	0.051	0.04	0.034	0.04	0.048	0.057	0.065	0.076	0.5	0.054	0.027	0.03

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS2	0.054	0.078	0.084	0.077	0.07	0.072	0.072	0.072	0.073	0.066	0.5	0.073	0.037	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	E	1.02	BS2	0.051	0.067	0.072	0.063	0.069	0.07	0.077	0.08	0.077	0.075	0.5	0.072	0.036	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS2	0.056	0.074	0.061	0.081	0.076	0.085	0.091	0.096	0.094	0.094	0.5	0.082	0.04	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS3	0.029	0.037	0.045	0.043	0.045	0.047	0.051	0.054	0.051	0.048	0.5	0.046	0.02	0.02
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	E	1.02	BS3	0.032	0.043	0.052	0.056	0.059	0.063	0.066	0.069	0.069	0.063	0.5	0.058	0.03	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS3	0.038	0.049	0.051	0.054	0.061	0.061	0.062	0.068	0.055	0.052	0.5	0.056	0.03	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS4	0.031	0.05	0.057	0.059	0.066	0.058	0.05	0.044	0.039	0.037	0.5	0.050	0.025	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	E	1.02	BS4	0.034	0.056	0.066	0.069	0.067	0.061	0.069	0.055	0.059	0.051	0.5	0.060	0.03	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS4	0.028	0.047	0.05	0.054	0.047	0.044	0.035	0.034	0.03	0.028	0.5	0.040	0.02	0.02
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS5	0.034	0.044	0.052	0.047	0.047	0.048	0.055	0.056	0.055	0.052	0.5	0.050	0.02	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	E	1.02	BS5	0.028	0.041	0.044	0.039	0.031	0.031	0.032	0.033	0.03	0.031	0.5	0.035	0.02	0.02
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS5	0.033	0.042	0.04	0.032	0.029	0.027	0.028	0.027	0.024	0.017	0.5	0.030	0.02	0.02

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS1	0.035	0.037	0.042	0.04	0.051	0.058	0.055	0.059	0.058	0.04	0.5	0.065	0.033	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS1	0.032	0.037	0.043	0.047	0.057	0.05	0.056	0.057	0.044	0.048	0.5	0.062	0.031	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS1	0.037	0.03	0.036	0.044	0.048	0.045	0.041	0.051	0.059	0.056	0.5	0.056	0.028	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS1	0.04	0.04	0.042	0.05	0.055	0.052	0.06	0.055	0.044	0.046	0.5	0.063	0.032	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS1	0.035	0.037	0.047	0.047	0.059	0.055	0.064	0.055	0.054	0.057	0.5	0.070	0.035	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS1	0.032	0.039	0.042	0.047	0.05	0.04	0.045	0.049	0.051	0.056	0.5	0.051	0.026	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS1	0.039	0.041	0.045	0.046	0.047	0.042	0.047	0.053	0.06	0.067	0.5	0.059	0.029	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS2	0.04	0.042	0.045	0.051	0.057	0.067	0.068	0.07	0.067	0.066	0.5	0.095	0.048	0.05
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS2	0.04	0.04	0.041	0.041	0.05	0.065	0.065	0.065	0.067	0.064	0.5	0.083	0.041	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS2	0.04	0.04	0.046	0.043	0.051	0.056	0.055	0.057	0.06	0.058	0.5	0.071	0.036	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS2	0.04	0.04	0.044	0.045	0.053	0.061	0.058	0.05	0.062	0.062	0.5	0.072	0.036	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS2	0.04	0.046	0.046	0.05	0.058	0.053	0.063	0.065	0.067	0.065	0.5	0.082	0.041	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS2	0.04	0.04	0.045	0.05	0.057	0.063	0.065	0.06	0.065	0.061	0.5	0.076	0.04	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS2	0.044	0.047	0.047	0.052	0.058	0.067	0.066	0.066	0.064	0.064	0.5	0.082	0.04	0.04

Notes:

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Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS3	0.034	0.035	0.034	0.041	0.047	0.041	0.043	0.052	0.056	0.056	0.5	0.056	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS3	0.037	0.032	0.035	0.04	0.047	0.041	0.04	0.052	0.043	0.04	0.5	0.046	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS3	0.036	0.038	0.038	0.04	0.043	0.05	0.047	0.045	0.048	0.031	0.5	0.048	0.024	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS3	0.034	0.039	0.047	0.048	0.058	0.063	0.063	0.058	0.062	0.058	0.5	0.077	0.039	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS3	0.043	0.044	0.04	0.05	0.06	0.064	0.063	0.06	0.06	0.061	0.5	0.079	0.040	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS3	0.045	0.047	0.057	0.056	0.063	0.061	0.061	0.06	0.058	0.056	0.5	0.079	0.040	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS3	0.032	0.044	0.05	0.051	0.057	0.064	0.06	0.056	0.047	0.055	0.5	0.066	0.033	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS4	0.052	0.048	0.051	0.054	0.059	0.058	0.059	0.06	0.057	0.059	0.5	0.087	0.043	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS4	0.052	0.047	0.05	0.054	0.056	0.06	0.058	0.061	0.052	0.059	0.5	0.083	0.041	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS4	0.051	0.04	0.041	0.042	0.047	0.059	0.05	0.048	0.048	0.044	0.5	0.061	0.030	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS4	0.047	0.046	0.047	0.042	0.046	0.054	0.048	0.044	0.049	0.051	0.5	0.060	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS4	0.049	0.046	0.055	0.050	0.062	0.058	0.051	0.056	0.059	0.055	0.5	0.077	0.04	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS4	0.049	0.055	0.057	0.066	0.07	0.071	0.066	0.065	0.06	0.056	0.5	0.095	0.05	0.05
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS4	0.052	0.045	0.059	0.057	0.056	0.059	0.051	0.046	0.049	0.042	0.5	0.065	0.033	0.03

Notes:

MPE calculations are defined in section 15.0
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Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS5	0.033	0.032	0.032	0.035	0.037	0.037	0.038	0.031	0.041	0.038	0.5	0.035	0.018	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS5	0.036	0.034	0.035	0.041	0.04	0.046	0.047	0.041	0.046	0.043	0.5	0.046	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS5	0.033	0.034	0.039	0.036	0.039	0.043	0.044	0.044	0.047	0.044	0.5	0.045	0.022	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS5	0.036	0.039	0.04	0.047	0.047	0.057	0.059	0.057	0.047	0.045	0.5	0.061	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS5	0.035	0.039	0.039	0.047	0.044	0.051	0.054	0.048	0.043	0.043	0.5	0.052	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS5	0.038	0.044	0.044	0.049	0.049	0.055	0.052	0.052	0.051	0.045	0.5	0.057	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS5	0.035	0.037	0.037	0.05	0.051	0.049	0.048	0.04	0.042	0.039	0.5	0.045	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS1	0.038	0.03	0.031	0.03	0.035	0.036	0.039	0.047	0.05	0.045	0.5	0.042	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS1	0.031	0.03	0.031	0.031	0.031	0.036	0.042	0.042	0.049	0.057	0.5	0.041	0.021	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS1	0.023	0.028	0.028	0.036	0.039	0.046	0.055	0.053	0.055	0.066	0.5	0.055	0.028	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS1	0.028	0.03	0.034	0.033	0.035	0.04	0.042	0.04	0.047	0.05	0.5	0.039	0.020	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS1	0.032	0.033	0.04	0.045	0.04	0.043	0.051	0.05	0.057	0.069	0.5	0.058	0.029	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS1	0.03	0.034	0.039	0.043	0.044	0.05	0.054	0.059	0.07	0.076	0.5	0.067	0.033	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS1	0.039	0.041	0.041	0.043	0.051	0.054	0.059	0.069	0.083	0.092	0.5	0.086	0.043	0.04

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS2	0.031	0.032	0.034	0.036	0.038	0.038	0.042	0.043	0.051	0.048	0.5	0.044	0.022	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS2	0.033	0.03	0.03	0.034	0.04	0.04	0.041	0.04	0.047	0.053	0.5	0.042	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS2	0.03	0.03	0.034	0.032	0.034	0.038	0.042	0.045	0.05	0.054	0.5	0.043	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS2	0.034	0.035	0.038	0.04	0.042	0.043	0.042	0.047	0.05	0.056	0.5	0.050	0.02	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS2	0.037	0.04	0.043	0.046	0.048	0.055	0.053	0.056	0.058	0.062	0.5	0.066	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS2	0.034	0.04	0.044	0.045	0.047	0.045	0.044	0.046	0.054	0.066	0.5	0.055	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS2	0.04	0.042	0.047	0.051	0.053	0.064	0.066	0.067	0.072	0.068	0.5	0.081	0.04	0.04
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS3	0.034	0.04	0.036	0.034	0.038	0.038	0.038	0.030	0.033	0.042	0.5	0.037	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS3	0.034	0.037	0.035	0.03	0.033	0.04	0.04	0.040	0.05	0.042	0.5	0.040	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS3	0.035	0.036	0.04	0.033	0.038	0.046	0.041	0.036	0.040	0.037	0.5	0.040	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS3	0.036	0.033	0.04	0.036	0.036	0.038	0.041	0.035	0.04	0.041	0.5	0.038	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS3	0.038	0.033	0.05	0.05	0.05	0.06	0.055	0.048	0.05	0.052	0.5	0.063	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS3	0.035	0.039	0.037	0.043	0.052	0.05	0.046	0.046	0.043	0.051	0.5	0.049	0.02	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS3	0.042	0.048	0.048	0.048	0.057	0.061	0.061	0.044	0.062	0.061	0.5	0.070	0.035	0.04

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS4	0.048	0.043	0.046	0.046	0.051	0.054	0.047	0.05	0.047	0.043	0.5	0.063	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS4	0.048	0.043	0.049	0.046	0.057	0.056	0.051	0.044	0.049	0.042	0.5	0.065	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS4	0.046	0.048	0.057	0.057	0.053	0.06	0.054	0.046	0.044	0.043	0.5	0.071	0.04	0.04
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS4	0.053	0.044	0.052	0.044	0.057	0.061	0.05	0.046	0.043	0.042	0.5	0.065	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS4	0.047	0.045	0.053	0.05	0.058	0.06	0.058	0.05	0.05	0.052	0.5	0.072	0.04	0.04
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS4	0.045	0.041	0.05	0.047	0.063	0.058	0.053	0.042	0.049	0.045	0.5	0.061	0.031	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS4	0.056	0.059	0.054	0.057	0.061	0.06	0.054	0.05	0.046	0.048	0.5	0.072	0.04	0.04
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS5	0.036	0.034	0.035	0.037	0.037	0.038	0.038	0.04	0.038	0.034	0.5	0.038	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS5	0.036	0.035	0.036	0.039	0.04	0.04	0.041	0.039	0.041	0.039	0.5	0.041	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS5	0.038	0.034	0.034	0.037	0.038	0.041	0.041	0.041	0.043	0.037	0.5	0.040	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS5	0.039	0.038	0.038	0.042	0.043	0.043	0.046	0.047	0.044	0.042	0.5	0.048	0.024	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS5	0.035	0.041	0.037	0.042	0.046	0.042	0.041	0.041	0.043	0.037	0.5	0.043	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS5	0.037	0.039	0.042	0.042	0.043	0.042	0.042	0.042	0.044	0.038	0.5	0.042	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS5	0.038	0.037	0.043	0.047	0.041	0.044	0.044	0.042	0.044	0.035	0.5	0.042	0.02	0.02

Notes:

MPE calculations are defined in section 15.0

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Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS1	0.032	0.033	0.032	0.036	0.048	0.047	0.046	0.054	0.065	0.077	0.5	0.067	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS1	0.036	0.033	0.04	0.043	0.043	0.058	0.057	0.057	0.062	0.067	0.5	0.070	0.035	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS1	0.034	0.03	0.031	0.033	0.032	0.048	0.07	0.061	0.07	0.070	0.5	0.070	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS1	0.03	0.033	0.038	0.042	0.04	0.042	0.051	0.053	0.053	0.064	0.5	0.056	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS1	0.035	0.034	0.037	0.048	0.054	0.052	0.06	0.057	0.062	0.070	0.5	0.071	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS1	0.031	0.036	0.038	0.045	0.046	0.048	0.046	0.062	0.072	0.078	0.5	0.068	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS1	0.04	0.04	0.041	0.052	0.042	0.055	0.054	0.068	0.076	0.082	0.5	0.078	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS2	0.03	0.031	0.034	0.038	0.042	0.043	0.05	0.05	0.052	0.054	0.5	0.052	0.026	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS2	0.031	0.033	0.032	0.04	0.048	0.053	0.051	0.05	0.041	0.048	0.5	0.051	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS2	0.036	0.04	0.04	0.05	0.056	0.062	0.05	0.06	0.066	0.066	0.5	0.078	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS2	0.035	0.038	0.042	0.047	0.048	0.054	0.057	0.056	0.056	0.058	0.5	0.066	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS2	0.04	0.045	0.043	0.055	0.056	0.068	0.066	0.069	0.068	0.074	0.5	0.092	0.046	0.05
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS2	0.044	0.048	0.05	0.052	0.058	0.062	0.063	0.065	0.068	0.07	0.5	0.085	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS2	0.04	0.042	0.05	0.051	0.063	0.07	0.07	0.072	0.075	0.076	0.5	0.094	0.05	0.05

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS3	0.031	0.036	0.034	0.034	0.039	0.044	0.046	0.045	0.049	0.048	0.5	0.047	0.024	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS3	0.038	0.037	0.038	0.038	0.046	0.051	0.052	0.049	0.05	0.051	0.5	0.056	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS3	0.034	0.036	0.043	0.037	0.043	0.044	0.039	0.048	0.045	0.05	0.5	0.048	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS3	0.04	0.045	0.04	0.036	0.044	0.049	0.053	0.048	0.049	0.051	0.5	0.056	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS3	0.04	0.044	0.051	0.051	0.059	0.066	0.066	0.064	0.061	0.061	0.5	0.084	0.042	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS3	0.04	0.045	0.054	0.055	0.06	0.064	0.063	0.061	0.062	0.053	0.5	0.078	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS3	0.04	0.047	0.05	0.056	0.062	0.06	0.059	0.06	0.058	0.058	0.5	0.074	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS4	0.056	0.048	0.05	0.054	0.057	0.064	0.058	0.058	0.05	0.049	0.5	0.083	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS4	0.048	0.042	0.046	0.048	0.054	0.06	0.052	0.044	0.049	0.047	0.5	0.066	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS4	0.045	0.04	0.046	0.045	0.049	0.057	0.046	0.049	0.048	0.047	0.5	0.061	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS4	0.045	0.042	0.046	0.052	0.053	0.062	0.06	0.06	0.055	0.042	0.5	0.072	0.036	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS4	0.042	0.042	0.046	0.053	0.059	0.071	0.06	0.055	0.057	0.052	0.5	0.077	0.038	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS4	0.052	0.057	0.069	0.064	0.072	0.079	0.069	0.063	0.05	0.056	0.5	0.100	0.050	0.05
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS4	0.047	0.049	0.051	0.056	0.064	0.054	0.057	0.051	0.049	0.051	0.5	0.068	0.034	0.03

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS5	0.033	0.04	0.04	0.042	0.043	0.044	0.046	0.045	0.048	0.04	0.5	0.050	0.025	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS5	0.04	0.041	0.04	0.04	0.042	0.037	0.038	0.041	0.041	0.044	0.5	0.045	0.022	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS5	0.036	0.035	0.036	0.039	0.04	0.042	0.048	0.046	0.044	0.043	0.5	0.046	0.023	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS5	0.04	0.036	0.042	0.048	0.053	0.05	0.052	0.053	0.048	0.041	0.5	0.058	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS5	0.039	0.039	0.04	0.044	0.048	0.049	0.044	0.045	0.046	0.044	0.5	0.050	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS5	0.048	0.044	0.052	0.053	0.055	0.068	0.054	0.051	0.041	0.035	0.5	0.064	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS5	0.035	0.042	0.044	0.046	0.049	0.048	0.046	0.042	0.041	0.038	0.5	0.045	0.02	0.02
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS1	0.04	0.04	0.04	0.044	0.05	0.057	0.057	0.05	0.048	0.053	0.5	0.065	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS1	0.051	0.042	0.043	0.054	0.062	0.07	0.072	0.066	0.067	0.062	0.5	0.097	0.049	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS1	0.043	0.04	0.055	0.05	0.062	0.067	0.071	0.061	0.053	0.062	0.5	0.087	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS1	0.04	0.04	0.046	0.053	0.062	0.061	0.068	0.06	0.05	0.057	0.5	0.077	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS1	0.041	0.048	0.052	0.06	0.051	0.055	0.064	0.06	0.053	0.05	0.5	0.073	0.04	0.04

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS2	0.03	0.035	0.038	0.042	0.046	0.044	0.04	0.056	0.05	0.056	0.5	0.055	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS2	0.034	0.048	0.05	0.06	0.066	0.068	0.07	0.071	0.071	0.072	0.5	0.105	0.053	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS2	0.042	0.045	0.047	0.054	0.06	0.064	0.067	0.066	0.064	0.062	0.5	0.089	0.04	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS2	0.036	0.047	0.048	0.055	0.065	0.073	0.07	0.071	0.07	0.068	0.5	0.098	0.05	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS2	0.043	0.045	0.047	0.045	0.058	0.054	0.05	0.06	0.061	0.061	0.5	0.071	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS3	0.04	0.045	0.047	0.047	0.06	0.06	0.059	0.062	0.061	0.059	0.5	0.083	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS3	0.037	0.046	0.044	0.045	0.047	0.053	0.053	0.054	0.06	0.058	0.5	0.069	0.034	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS3	0.044	0.041	0.053	0.059	0.06	0.065	0.065	0.064	0.063	0.061	0.5	0.090	0.04	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS3	0.044	0.052	0.057	0.05	0.062	0.071	0.066	0.065	0.066	0.068	0.5	0.096	0.05	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS3	0.036	0.041	0.045	0.051	0.055	0.063	0.057	0.056	0.056	0.054	0.5	0.069	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS4	0.044	0.045	0.058	0.053	0.069	0.072	0.064	0.061	0.056	0.053	0.5	0.094	0.05	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS4	0.045	0.05	0.054	0.049	0.051	0.048	0.047	0.047	0.044	0.046	0.5	0.063	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS4	0.054	0.048	0.052	0.059	0.072	0.07	0.072	0.069	0.067	0.064	0.5	0.106	0.053	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS4	0.052	0.05	0.066	0.061	0.07	0.072	0.066	0.068	0.067	0.062	0.5	0.106	0.05	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS4	0.049	0.043	0.053	0.05	0.054	0.059	0.063	0.057	0.052	0.048	0.5	0.071	0.04	0.04

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS5	0.042	0.037	0.038	0.041	0.049	0.057	0.052	0.056	0.054	0.051	0.5	0.065	0.032	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS5	0.043	0.039	0.04	0.042	0.046	0.044	0.043	0.045	0.042	0.041	0.5	0.049	0.02	0.02
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS5	0.04	0.038	0.04	0.043	0.046	0.056	0.052	0.05	0.053	0.046	0.5	0.058	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS5	0.038	0.035	0.043	0.047	0.055	0.054	0.056	0.054	0.052	0.044	0.5	0.061	0.030	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS5	0.04	0.05	0.052	0.055	0.054	0.064	0.067	0.06	0.055	0.049	0.5	0.077	0.038	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	H	0.84	BS1	0.04	0.04	0.041	0.043	0.048	0.05	0.05	0.054	0.055	0.06	0.5	0.063	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS1	0.04	0.04	0.047	0.05	0.057	0.06	0.07	0.063	0.06	0.055	0.5	0.080	0.040	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS1	0.047	0.046	0.041	0.057	0.068	0.062	0.065	0.055	0.055	0.057	0.5	0.081	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS1	0.043	0.04	0.047	0.056	0.061	0.05	0.06	0.06	0.055	0.061	0.5	0.072	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS1	0.042	0.045	0.05	0.052	0.058	0.066	0.065	0.062	0.068	0.07	0.5	0.083	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	H	0.84	BS2	0.035	0.037	0.043	0.045	0.042	0.053	0.053	0.052	0.054	0.056	0.5	0.060	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS2	0.041	0.04	0.046	0.045	0.052	0.051	0.06	0.064	0.061	0.06	0.5	0.074	0.037	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS2	0.036	0.048	0.047	0.057	0.06	0.067	0.067	0.065	0.07	0.068	0.5	0.092	0.05	0.05
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS2	0.048	0.045	0.044	0.053	0.06	0.065	0.066	0.07	0.068	0.07	0.5	0.088	0.04	0.05
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS2	0.044	0.047	0.046	0.056	0.062	0.071	0.073	0.074	0.07	0.072	0.5	0.095	0.05	0.05

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	H	0.84	BS3	0.036	0.038	0.043	0.041	0.04	0.043	0.041	0.041	0.039	0.041	0.5	0.043	0.02	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS3	0.036	0.04	0.046	0.054	0.057	0.06	0.056	0.057	0.052	0.046	0.5	0.069	0.035	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS3	0.032	0.04	0.04	0.056	0.06	0.068	0.061	0.061	0.054	0.06	0.5	0.077	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS3	0.035	0.057	0.059	0.06	0.064	0.065	0.063	0.063	0.06	0.06	0.5	0.087	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS3	0.043	0.054	0.055	0.057	0.065	0.066	0.064	0.062	0.061	0.061	0.5	0.084	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	H	0.84	BS4	0.044	0.046	0.051	0.044	0.046	0.056	0.05	0.044	0.044	0.042	0.5	0.058	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS4	0.05	0.043	0.052	0.055	0.06	0.064	0.064	0.055	0.059	0.062	0.5	0.086	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS4	0.047	0.041	0.05	0.049	0.054	0.07	0.061	0.057	0.055	0.055	0.5	0.077	0.038	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS4	0.05	0.052	0.07	0.064	0.07	0.071	0.069	0.068	0.061	0.06	0.5	0.101	0.05	0.05
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS4	0.047	0.046	0.048	0.061	0.064	0.065	0.052	0.051	0.048	0.044	0.5	0.068	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	H	0.84	BS5	0.042	0.043	0.04	0.04	0.038	0.037	0.035	0.035	0.036	0.036	0.5	0.039	0.020	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS5	0.034	0.042	0.04	0.04	0.051	0.051	0.05	0.05	0.055	0.051	0.5	0.058	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS5	0.041	0.045	0.044	0.046	0.055	0.052	0.055	0.046	0.039	0.046	0.5	0.058	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS5	0.047	0.048	0.047	0.057	0.067	0.065	0.065	0.06	0.058	0.051	0.5	0.080	0.040	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS5	0.047	0.049	0.045	0.054	0.057	0.05	0.044	0.041	0.043	0.034	0.5	0.053	0.026	0.03

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS1	0.041	0.05	0.04	0.044	0.048	0.052	0.05	0.046	0.045	0.04	0.5	0.058	0.03	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS1	0.042	0.04	0.04	0.05	0.061	0.063	0.068	0.064	0.06	0.055	0.5	0.083	0.04	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS1	0.045	0.043	0.044	0.047	0.068	0.073	0.077	0.073	0.074	0.07	0.5	0.108	0.054	0.05
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS2	0.034	0.035	0.04	0.04	0.045	0.061	0.06	0.06	0.064	0.06	0.5	0.073	0.037	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS2	0.048	0.048	0.051	0.055	0.06	0.068	0.072	0.073	0.072	0.07	0.5	0.106	0.053	0.05
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS2	0.06	0.057	0.06	0.065	0.074	0.082	0.08	0.08	0.082	0.081	0.5	0.144	0.072	0.07
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS3	0.036	0.043	0.046	0.04	0.04	0.065	0.064	0.066	0.064	0.065	0.5	0.082	0.041	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS3	0.038	0.04	0.04	0.044	0.053	0.06	0.061	0.061	0.06	0.057	0.5	0.074	0.037	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS3	0.034	0.037	0.042	0.04	0.048	0.055	0.058	0.055	0.06	0.058	0.5	0.067	0.033	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS4	0.049	0.044	0.044	0.057	0.059	0.066	0.064	0.063	0.054	0.059	0.5	0.089	0.044	0.05
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS4	0.046	0.044	0.048	0.053	0.067	0.059	0.063	0.058	0.05	0.05	0.5	0.080	0.040	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS4	0.045	0.042	0.045	0.046	0.052	0.055	0.05	0.05	0.052	0.05	0.5	0.065	0.032	0.03

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS5	0.044	0.042	0.042	0.044	0.047	0.047	0.055	0.05	0.055	0.051	0.5	0.064	0.032	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS5	0.039	0.038	0.041	0.04	0.047	0.048	0.053	0.041	0.049	0.041	0.5	0.053	0.026	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS5	0.037	0.041	0.042	0.038	0.044	0.046	0.049	0.043	0.048	0.044	0.5	0.051	0.026	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS1	0.044	0.04	0.048	0.054	0.063	0.071	0.075	0.071	0.068	0.061	0.5	0.100	0.050	0.05
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	H	0.84	BS1	0.05	0.043	0.051	0.064	0.067	0.071	0.072	0.072	0.073	0.071	0.5	0.110	0.055	0.06
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS1	0.043	0.045	0.047	0.056	0.065	0.068	0.067	0.066	0.065	0.062	0.5	0.093	0.047	0.05
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS2	0.048	0.044	0.045	0.051	0.067	0.071	0.072	0.073	0.073	0.072	0.5	0.107	0.054	0.05
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	H	0.84	BS2	0.051	0.05	0.054	0.057	0.066	0.077	0.073	0.078	0.077	0.073	0.5	0.118	0.059	0.06
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS2	0.047	0.046	0.053	0.066	0.063	0.072	0.074	0.072	0.07	0.07	0.5	0.109	0.055	0.06
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS3	0.037	0.038	0.041	0.044	0.05	0.046	0.04	0.046	0.052	0.05	0.5	0.054	0.027	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	H	0.84	BS3	0.042	0.043	0.046	0.056	0.066	0.072	0.067	0.063	0.062	0.057	0.5	0.090	0.045	0.05
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS3	0.046	0.048	0.057	0.06	0.068	0.07	0.07	0.07	0.065	0.065	0.5	0.104	0.05	0.05

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS4	0.045	0.04	0.043	0.044	0.05	0.054	0.049	0.05	0.049	0.05	0.5	0.062	0.03	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	H	0.84	BS4	0.049	0.048	0.059	0.06	0.062	0.068	0.062	0.062	0.062	0.057	0.5	0.093	0.05	0.05
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS4	0.053	0.05	0.054	0.061	0.073	0.072	0.073	0.067	0.069	0.066	0.5	0.110	0.06	0.06
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS5	0.038	0.04	0.04	0.041	0.043	0.049	0.047	0.046	0.04	0.042	0.5	0.050	0.025	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	H	0.84	BS5	0.04	0.043	0.045	0.044	0.048	0.044	0.049	0.05	0.05	0.048	0.5	0.057	0.028	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS5	0.037	0.047	0.052	0.05	0.054	0.058	0.063	0.055	0.057	0.045	0.5	0.073	0.036	0.04
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS1	0.048	0.043	0.047	0.054	0.063	0.068	0.068	0.061	0.055	0.063	0.5	0.088	0.044	0.05
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS1	0.04	0.043	0.047	0.062	0.067	0.068	0.078	0.064	0.061	0.06	0.5	0.094	0.047	0.05
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS1	0.046	0.05	0.052	0.07	0.074	0.075	0.075	0.065	0.067	0.063	0.5	0.106	0.053	0.05
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS2	0.040	0.04	0.048	0.05	0.060	0.07	0.070	0.07	0.065	0.065	0.5	0.092	0.05	0.05
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS2	0.054	0.05	0.057	0.060	0.066	0.074	0.073	0.074	0.072	0.072	0.5	0.112	0.06	0.06
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS2	0.041	0.048	0.056	0.058	0.071	0.075	0.071	0.075	0.07	0.065	0.5	0.104	0.05	0.05

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS3	0.042	0.042	0.052	0.056	0.061	0.063	0.065	0.063	0.061	0.058	0.5	0.086	0.04	0.04
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS3	0.05	0.057	0.057	0.064	0.071	0.07	0.072	0.072	0.073	0.071	0.5	0.114	0.057	0.06
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS3	0.043	0.053	0.057	0.061	0.065	0.072	0.07	0.065	0.064	0.063	0.5	0.097	0.05	0.05
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS4	0.049	0.049	0.05	0.056	0.064	0.065	0.065	0.054	0.058	0.059	0.5	0.087	0.04	0.04
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS4	0.046	0.042	0.041	0.053	0.057	0.058	0.066	0.05	0.051	0.06	0.5	0.073	0.04	0.04
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS4	0.048	0.048	0.047	0.06	0.066	0.074	0.07	0.063	0.051	0.057	0.5	0.089	0.04	0.05
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS5	0.042	0.046	0.047	0.046	0.05	0.055	0.056	0.054	0.056	0.053	0.5	0.068	0.03	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS5	0.043	0.049	0.043	0.04	0.053	0.05	0.052	0.05	0.056	0.053	0.5	0.063	0.03	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS5	0.042	0.051	0.044	0.058	0.066	0.066	0.068	0.059	0.06	0.054	0.5	0.084	0.042	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS1	0.046	0.048	0.053	0.064	0.072	0.072	0.068	0.063	0.063	0.06	0.5	0.096	0.048	0.05
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	H	0.81	BS1	0.044	0.054	0.051	0.054	0.06	0.064	0.064	0.06	0.06	0.061	0.5	0.082	0.041	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS1	0.042	0.047	0.05	0.058	0.06	0.07	0.066	0.067	0.074	0.075	0.5	0.092	0.046	0.05

Notes:

MPE calculations are defined in section 15.0
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Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS2	0.056	0.05	0.053	0.068	0.065	0.082	0.07	0.068	0.065	0.063	0.5	0.106	0.053	0.05
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	H	0.81	BS2	0.043	0.048	0.052	0.05	0.06	0.07	0.07	0.072	0.072	0.072	0.5	0.095	0.047	0.05
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS2	0.053	0.05	0.051	0.053	0.065	0.077	0.072	0.072	0.076	0.076	0.5	0.103	0.05	0.05
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS3	0.043	0.048	0.056	0.058	0.063	0.064	0.064	0.062	0.063	0.06	0.5	0.087	0.04	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	H	0.81	BS3	0.056	0.056	0.058	0.063	0.068	0.063	0.064	0.064	0.062	0.062	0.5	0.094	0.05	0.05
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS3	0.044	0.052	0.055	0.058	0.063	0.064	0.064	0.06	0.062	0.06	0.5	0.083	0.04	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS4	0.051	0.054	0.056	0.061	0.064	0.067	0.063	0.055	0.056	0.055	0.5	0.086	0.043	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	H	0.81	BS4	0.045	0.056	0.049	0.05	0.058	0.05	0.068	0.057	0.059	0.059	0.5	0.076	0.04	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS4	0.046	0.051	0.04	0.04	0.042	0.052	0.061	0.055	0.053	0.048	0.5	0.058	0.03	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS5	0.045	0.052	0.048	0.055	0.067	0.065	0.063	0.057	0.057	0.051	0.5	0.081	0.04	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	H	0.81	BS5	0.043	0.043	0.046	0.051	0.052	0.045	0.045	0.052	0.051	0.048	0.5	0.056	0.03	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS5	0.04	0.051	0.047	0.054	0.06	0.055	0.056	0.046	0.044	0.039	0.5	0.059	0.03	0.03

Notes:

MPE calculations are defined in section 15.0

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Table G.2

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	136.0000	60.0	59.0	CW	E	1.03	PB	0.287	0.175	0.099	0.5	0.193	0.10	0.10
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	140.0000	60.0	59.0	CW	E	1.02	PB	0.42	0.308	0.171	0.5	0.306	0.15	0.16
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	144.0000	60.0	59.3	CW	E	1.02	PB	0.388	0.272	0.184	0.5	0.287	0.14	0.15
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PB	0.351	0.341	0.236	0.5	0.316	0.16	0.16
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	158.3000	60.0	59.0	CW	E	1.02	PB	0.322	0.317	0.266	0.5	0.308	0.154	0.16
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	165.9000	60.0	58.7	CW	E	1.02	PB	0.174	0.268	0.224	0.5	0.226	0.11	0.12
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	173.4000	60.0	59.0	CW	E	1.02	PB	0.071	0.12	0.143	0.5	0.114	0.06	0.06
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	136.0000	60.0	59.0	CW	E	1.03	PB	0.036	0.021	0.017	0.5	0.025	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	140.0000	60.0	59.0	CW	E	1.02	PB	0.059	0.048	0.034	0.5	0.048	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	144.0000	60.0	59.3	CW	E	1.02	PB	0.055	0.056	0.047	0.5	0.054	0.027	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	150.8000	60.0	58.8	CW	E	1.02	PB	0.051	0.03	0.019	0.5	0.034	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	158.3000	60.0	59.0	CW	E	1.02	PB	0.05	0.059	0.069	0.5	0.061	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	165.9000	60.0	58.7	CW	E	1.02	PB	0.035	0.066	0.055	0.5	0.053	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	173.4000	60.0	59.0	CW	E	1.02	PB	0.029	0.041	0.064	0.5	0.046	0.02	0.02

Notes:

MPE calculations are defined in section 15.0
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Table G.2 (Continued)

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	136.0000	60.0	59.0	CW	E	1.03	PB	0.122	0.066	0.023	0.5	0.072	0.036	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	140.0000	60.0	59.0	CW	E	1.02	PB	0.101	0.079	0.041	0.5	0.075	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	144.0000	60.0	59.3	CW	E	1.02	PB	0.114	0.085	0.04	0.5	0.081	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	150.8000	60.0	58.8	CW	E	1.02	PB	0.12	0.121	0.078	0.5	0.108	0.05	0.06
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	158.3000	60.0	59.0	CW	E	1.02	PB	0.134	0.145	0.133	0.5	0.140	0.07	0.07
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	165.9000	60.0	58.7	CW	E	1.02	PB	0.108	0.157	0.177	0.5	0.150	0.08	0.08
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	173.4000	60.0	59.0	CW	E	1.02	PB	0.049	0.084	0.091	0.5	0.076	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	136.0000	60.0	59.0	CW	E	1.03	PB	0.342	0.312	0.153	0.5	0.277	0.14	0.14
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	144.0000	60.0	59.3	CW	E	1.02	PB	0.285	0.252	0.169	0.5	0.240	0.12	0.12
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PB	0.347	0.328	0.205	0.5	0.299	0.15	0.15
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	156.2000	60.0	58.8	CW	E	1.02	PB	0.332	0.314	0.246	0.5	0.303	0.152	0.15
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	162.0000	60.0	58.8	CW	E	1.02	PB	0.234	0.335	0.263	0.5	0.283	0.14	0.14

Notes:

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Table G.2 (Continued)

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	146.0000	60.0	59.6	CW	E	1.02	PB	0.164	0.149	0.112	0.5	0.145	0.072	0.07
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PB	0.26	0.248	0.176	0.5	0.233	0.116	0.12
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	158.3000	60.0	59.0	CW	E	1.02	PB	0.269	0.335	0.274	0.5	0.299	0.15	0.15
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	165.9000	60.0	58.7	CW	E	1.02	PB	0.252	0.394	0.231	0.5	0.298	0.15	0.15
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	173.4000	60.0	59.0	CW	E	1.02	PB	0.091	0.142	0.133	0.5	0.124	0.06	0.06
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	136.0000	60.0	59.0	CW	E	1.03	PB	0.504	0.332	0.205	0.5	0.357	0.18	0.18
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	140.0000	60.0	59.0	CW	E	1.02	PB	0.329	0.272	0.208	0.5	0.275	0.14	0.14
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	144.0000	60.0	59.3	CW	E	1.02	PB	0.262	0.254	0.173	0.5	0.234	0.12	0.12
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	144.0000	60.0	59.3	CW	E	1.02	PB	0.267	0.205	0.164	0.5	0.216	0.11	0.11
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	148.0000	60.0	59.1	CW	E	1.02	PB	0.396	0.303	0.24	0.5	0.319	0.16	0.16
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PB	0.383	0.34	0.262	0.5	0.335	0.167	0.17

Notes:

MPE calculations are defined in section 15.0
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Table G.2 (Continued)

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PB	0.285	0.281	0.190	0.5	0.257	0.129	0.13
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	156.2000	60.0	58.8	CW	E	1.02	PB	0.373	0.383	0.285	0.5	0.354	0.177	0.18
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	162.0000	60.0	58.8	CW	E	1.02	PB	0.345	0.392	0.403	0.5	0.388	0.194	0.20
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	162.0000	60.0	58.8	CW	E	1.02	PB	0.392	0.421	0.339	0.5	0.392	0.196	0.20
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	167.7000	60.0	58.7	CW	E	1.02	PB	0.199	0.324	0.227	0.5	0.255	0.128	0.13
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	173.4000	60.0	59.0	CW	E	1.02	PB	0.113	0.211	0.195	0.5	0.176	0.09	0.09
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	136.0000	60.0	59.0	CW	H	0.86	PB	0.09	0.04	0.05	0.5	0.113	0.06	0.06
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	140.0000	60.0	59.0	CW	H	0.85	PB	0.08	0.06	0.04	0.5	0.105	0.05	0.05
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	144.0000	60.0	59.3	CW	H	0.85	PB	0.08	0.04	0.04	0.5	0.087	0.04	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PB	0.08	0.07	0.05	0.5	0.122	0.06	0.06
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	158.3000	60.0	59.0	CW	H	0.83	PB	0.070	0.060	0.040	0.5	0.087	0.044	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	165.9000	60.0	58.7	CW	H	0.81	PB	0.07	0.07	0.06	0.5	0.110	0.06	0.06
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	173.4000	60.0	59.0	CW	H	0.80	PB	0.07	0.06	0.04	0.5	0.081	0.04	0.04

Notes:

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Table G.2 (Continued)

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	136.0000	60.0	59.0	CW	H	0.86	PB	0.05	0.04	0.04	0.5	0.053	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	140.0000	60.0	59.0	CW	H	0.85	PB	0.050	0.03	0.03	0.5	0.039	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	144.0000	60.0	59.3	CW	H	0.85	PB	0.06	0.03	0.03	0.5	0.049	0.025	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	150.8000	60.0	58.8	CW	H	0.84	PB	0.05	0.03	0.03	0.5	0.038	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	158.3000	60.0	59.0	CW	H	0.83	PB	0.06	0.040	0.03	0.5	0.053	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	165.9000	60.0	58.7	CW	H	0.81	PB	0.05	0.050	0.04	0.5	0.054	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	173.4000	60.0	59.0	CW	H	0.80	PB	0.04	0.04	0.04	0.5	0.039	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	136.0000	60.0	59.0	CW	H	0.86	PB	0.048	0.033	0.033	0.5	0.042	0.021	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	140.0000	60.0	59.0	CW	H	0.85	PB	0.06	0.05	0.03	0.5	0.064	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	144.0000	60.0	59.3	CW	H	0.85	PB	0.06	0.04	0.03	0.5	0.055	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	150.8000	60.0	58.8	CW	H	0.84	PB	0.05	0.04	0.02	0.5	0.040	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	158.3000	60.0	59.0	CW	H	0.83	PB	0.05	0.04	0.04	0.5	0.049	0.02	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	165.9000	60.0	58.7	CW	H	0.81	PB	0.07	0.06	0.04	0.5	0.083	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	173.4000	60.0	59.0	CW	H	0.80	PB	0.060	0.040	0.040	0.5	0.055	0.03	0.03

Notes:

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Table G.2 (Continued)

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	136.0000	60.0	59.0	CW	H	0.86	PB	0.08	0.04	0.04	0.5	0.089	0.04	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	144.0000	60.0	59.3	CW	H	0.85	PB	0.090	0.060	0.030	0.5	0.114	0.06	0.06
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PB	0.090	0.070	0.060	0.5	0.147	0.07	0.08
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	156.2000	60.0	58.8	CW	H	0.83	PB	0.08	0.07	0.06	0.5	0.129	0.064	0.07
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	162.0000	60.0	58.8	CW	H	0.82	PB	0.07	0.06	0.06	0.5	0.102	0.05	0.05
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	146.0000	60.0	59.6	CW	H	0.84	PB	0.06	0.05	0.04	0.5	0.068	0.034	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PB	0.08	0.06	0.05	0.5	0.111	0.055	0.06
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	158.3000	60.0	59.0	CW	H	0.83	PB	0.08	0.07	0.06	0.5	0.129	0.06	0.07
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	165.9000	60.0	58.7	CW	H	0.81	PB	0.080	0.07	0.07	0.5	0.134	0.07	0.07
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	173.4000	60.0	59.0	CW	H	0.80	PB	0.07	0.06	0.06	0.5	0.097	0.05	0.05
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	136.0000	60.0	59.0	CW	H	0.86	PB	0.09	0.060	0.05	0.5	0.132	0.07	0.07
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	140.0000	60.0	59.0	CW	H	0.85	PB	0.090	0.070	0.040	0.5	0.133	0.07	0.07
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	144.0000	60.0	59.3	CW	H	0.85	PB	0.090	0.07	0.04	0.5	0.133	0.07	0.07

Notes:

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Table G.2 (Continued)

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	144.0000	60.0	59.3	CW	H	0.85	PB	0.08	0.06	0.04	0.5	0.105	0.05	0.05
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	148.0000	60.0	59.1	CW	H	0.84	PB	0.09	0.07	0.06	0.5	0.147	0.07	0.07
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PB	0.100	0.07	0.06	0.5	0.164	0.082	0.08
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PB	0.09	0.07	0.06	0.5	0.147	0.074	0.08
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	156.2000	60.0	58.8	CW	H	0.83	PB	0.090	0.070	0.070	0.5	0.155	0.077	0.08
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	162.0000	60.0	58.8	CW	H	0.82	PB	0.08	0.08	0.07	0.5	0.150	0.075	0.08
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	162.0000	60.0	58.8	CW	H	0.82	PB	0.080	0.070	0.070	0.5	0.137	0.068	0.07
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	167.7000	60.0	58.7	CW	H	0.81	PB	0.08	0.07	0.06	0.5	0.123	0.061	0.06
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	173.4000	60.0	59.0	CW	H	0.80	PB	0.08	0.07	0.06	0.5	0.120	0.06	0.06

Notes:

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Table G.2 (Continued)

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	136.0000	60.0	59.0	CW	E	1.03	PF	0.062	0.077	0.048	0.5	0.064	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	140.0000	60.0	59.0	CW	E	1.02	PF	0.160	0.054	0.092	0.5	0.104	0.05	0.05
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	144.0000	60.0	59.3	CW	E	1.02	PF	0.056	0.066	0.049	0.5	0.058	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PF	0.053	0.051	0.040	0.5	0.049	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	158.3000	60.0	59.0	CW	E	1.02	PF	0.088	0.130	0.061	0.5	0.095	0.047	0.05
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	165.9000	60.0	58.7	CW	E	1.02	PF	0.054	0.059	0.051	0.5	0.056	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	173.4000	60.0	59.0	CW	E	1.02	PF	0.057	0.066	0.050	0.5	0.059	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	136.0000	60.0	59.0	CW	E	1.03	PF	0.044	0.055	0.123	0.5	0.076	0.04	0.04
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	140.0000	60.0	59.0	CW	E	1.02	PF	0.026	0.038	0.013	0.5	0.026	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	144.0000	60.0	59.3	CW	E	1.02	PF	0.035	0.074	0.037	0.5	0.050	0.025	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	150.8000	60.0	58.8	CW	E	1.02	PF	0.022	0.027	0.023	0.5	0.024	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	158.3000	60.0	59.0	CW	E	1.02	PF	0.034	0.093	0.169	0.5	0.101	0.05	0.05
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	165.9000	60.0	58.7	CW	E	1.02	PF	0.041	0.123	0.141	0.5	0.104	0.05	0.05
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	173.4000	60.0	59.0	CW	E	1.02	PF	0.048	0.053	0.059	0.5	0.054	0.03	0.03

Notes:

MPE calculations are defined in section 15.0
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Table G.2 (Continued)

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	136.0000	60.0	59.0	CW	E	1.03	PF	0.037	0.026	0.067	0.5	0.045	0.022	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	140.0000	60.0	59.0	CW	E	1.02	PF	0.096	0.149	0.060	0.5	0.104	0.05	0.05
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	144.0000	60.0	59.3	CW	E	1.02	PF	0.046	0.100	0.060	0.5	0.070	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	150.8000	60.0	58.8	CW	E	1.02	PF	0.051	0.157	0.162	0.5	0.126	0.06	0.06
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	158.3000	60.0	59.0	CW	E	1.02	PF	0.033	0.087	0.101	0.5	0.075	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	165.9000	60.0	58.7	CW	E	1.02	PF	0.039	0.074	0.092	0.5	0.070	0.03	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	173.4000	60.0	59.0	CW	E	1.02	PF	0.060	0.086	0.059	0.5	0.070	0.03	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	136.0000	60.0	59.0	CW	E	1.03	PF	0.069	0.099	0.039	0.5	0.071	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	144.0000	60.0	59.3	CW	E	1.02	PF	0.104	0.142	0.101	0.5	0.118	0.06	0.06
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PF	0.055	0.067	0.055	0.5	0.060	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	156.2000	60.0	58.8	CW	E	1.02	PF	0.060	0.103	0.058	0.5	0.075	0.038	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	162.0000	60.0	58.8	CW	E	1.02	PF	0.044	0.094	0.105	0.5	0.083	0.04	0.04

Notes:

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Table G.2 (Continued)

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	146.0000	60.0	59.6	CW	E	1.02	PF	0.085	0.113	0.112	0.5	0.105	0.053	0.05
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PF	0.048	0.062	0.093	0.5	0.069	0.035	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	158.3000	60.0	59.0	CW	E	1.02	PF	0.063	0.108	0.089	0.5	0.088	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	165.9000	60.0	58.7	CW	E	1.02	PF	0.073	0.137	0.116	0.5	0.111	0.06	0.06
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	173.4000	60.0	59.0	CW	E	1.02	PF	0.130	0.121	0.152	0.5	0.137	0.07	0.07
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	136.0000	60.0	59.0	CW	E	1.03	PF	0.116	0.171	0.115	0.5	0.138	0.07	0.07
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	140.0000	60.0	59.0	CW	E	1.02	PF	0.060	0.099	0.127	0.5	0.097	0.05	0.05
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	144.0000	60.0	59.3	CW	E	1.02	PF	0.114	0.155	0.142	0.5	0.140	0.07	0.07
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	144.0000	60.0	59.3	CW	E	1.02	PF	0.100	0.174	0.130	0.5	0.137	0.07	0.07
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	148.0000	60.0	59.1	CW	E	1.02	PF	0.090	0.118	0.129	0.5	0.115	0.06	0.06
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PF	0.069	0.110	0.119	0.5	0.101	0.051	0.05

Notes:

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Table G.2 (Continued)

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PF	0.062	0.093	0.096	0.5	0.085	0.043	0.04
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	156.2000	60.0	58.8	CW	E	1.02	PF	0.067	0.136	0.116	0.5	0.108	0.054	0.06
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	162.0000	60.0	58.8	CW	E	1.02	PF	0.062	0.086	0.135	0.5	0.096	0.048	0.05
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	162.0000	60.0	58.8	CW	E	1.02	PF	0.069	0.177	0.212	0.5	0.156	0.078	0.08
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	167.7000	60.0	58.7	CW	E	1.02	PF	0.102	0.164	0.172	0.5	0.149	0.074	0.08
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	173.4000	60.0	59.0	CW	E	1.02	PF	0.131	0.128	0.135	0.5	0.134	0.07	0.07
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	136.0000	60.0	59.0	CW	H	0.86	PF	0.066	0.083	0.055	0.5	0.133	0.07	0.07
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	140.0000	60.0	59.0	CW	H	0.85	PF	0.076	0.084	0.049	0.5	0.138	0.07	0.07
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	144.0000	60.0	59.3	CW	H	0.85	PF	0.064	0.055	0.046	0.5	0.084	0.04	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PF	0.050	0.053	0.049	0.5	0.068	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	158.3000	60.0	59.0	CW	H	0.83	PF	0.045	0.054	0.049	0.5	0.064	0.032	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	165.9000	60.0	58.7	CW	H	0.81	PF	0.035	0.036	0.043	0.5	0.036	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	173.4000	60.0	59.0	CW	H	0.80	PF	0.039	0.047	0.038	0.5	0.042	0.02	0.02

Notes:

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Table G.2 (Continued)

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	136.0000	60.0	59.0	CW	H	0.86	PF	0.063	0.071	0.058	0.5	0.115	0.06	0.06
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	140.0000	60.0	59.0	CW	H	0.85	PF	0.041	0.044	0.030	0.5	0.041	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	144.0000	60.0	59.3	CW	H	0.85	PF	0.044	0.048	0.040	0.5	0.053	0.027	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	150.8000	60.0	58.8	CW	H	0.84	PF	0.029	0.026	0.033	0.5	0.023	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	158.3000	60.0	59.0	CW	H	0.83	PF	0.038	0.039	0.033	0.5	0.035	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	165.9000	60.0	58.7	CW	H	0.81	PF	0.047	0.056	0.037	0.5	0.055	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	173.4000	60.0	59.0	CW	H	0.80	PF	0.045	0.048	0.029	0.5	0.042	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	136.0000	60.0	59.0	CW	H	0.86	PF	0.064	0.067	0.059	0.5	0.112	0.056	0.06
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	140.0000	60.0	59.0	CW	H	0.85	PF	0.063	0.070	0.054	0.5	0.107	0.05	0.05
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	144.0000	60.0	59.3	CW	H	0.85	PF	0.044	0.049	0.029	0.5	0.047	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	150.8000	60.0	58.8	CW	H	0.84	PF	0.036	0.041	0.031	0.5	0.035	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	158.3000	60.0	59.0	CW	H	0.83	PF	0.041	0.047	0.036	0.5	0.045	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	165.9000	60.0	58.7	CW	H	0.81	PF	0.051	0.060	0.044	0.5	0.067	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	173.4000	60.0	59.0	CW	H	0.80	PF	0.048	0.050	0.036	0.5	0.049	0.02	0.02

Notes:

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Table G.2 (Continued)

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	136.0000	60.0	59.0	CW	H	0.86	PF	0.069	0.067	0.033	0.5	0.096	0.05	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	144.0000	60.0	59.3	CW	H	0.85	PF	0.056	0.058	0.037	0.5	0.071	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PF	0.047	0.063	0.044	0.5	0.072	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	156.2000	60.0	58.8	CW	H	0.83	PF	0.055	0.069	0.043	0.5	0.083	0.042	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	162.0000	60.0	58.8	CW	H	0.82	PF	0.048	0.072	0.050	0.5	0.084	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	146.0000	60.0	59.6	CW	H	0.84	PF	0.046	0.047	0.030	0.5	0.046	0.023	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PF	0.047	0.051	0.036	0.5	0.054	0.027	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	158.3000	60.0	59.0	CW	H	0.83	PF	0.055	0.073	0.054	0.5	0.098	0.05	0.05
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	165.9000	60.0	58.7	CW	H	0.81	PF	0.051	0.082	0.070	0.5	0.117	0.06	0.06
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	173.4000	60.0	59.0	CW	H	0.80	PF	0.040	0.046	0.054	0.5	0.053	0.03	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	136.0000	60.0	59.0	CW	H	0.86	PF	0.083	0.082	0.040	0.5	0.141	0.07	0.07
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	140.0000	60.0	59.0	CW	H	0.85	PF	0.066	0.073	0.041	0.5	0.103	0.05	0.05
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	144.0000	60.0	59.3	CW	H	0.85	PF	0.064	0.059	0.034	0.5	0.079	0.04	0.04

Notes:

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Table G.2 (Continued)

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	144.0000	60.0	59.3	CW	H	0.85	PF	0.057	0.062	0.037	0.5	0.077	0.04	0.04
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	148.0000	60.0	59.1	CW	H	0.84	PF	0.050	0.062	0.038	0.5	0.069	0.03	0.04
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PF	0.053	0.064	0.045	0.5	0.079	0.040	0.04
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PF	0.052	0.052	0.040	0.5	0.062	0.031	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	156.2000	60.0	58.8	CW	H	0.83	PF	0.049	0.053	0.051	0.5	0.068	0.034	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	162.0000	60.0	58.8	CW	H	0.82	PF	0.042	0.049	0.055	0.5	0.061	0.030	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	162.0000	60.0	58.8	CW	H	0.82	PF	0.056	0.049	0.051	0.5	0.069	0.034	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	167.7000	60.0	58.7	CW	H	0.81	PF	0.055	0.045	0.042	0.5	0.056	0.028	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	173.4000	60.0	59.0	CW	H	0.80	PF	0.054	0.062	0.051	0.5	0.075	0.04	0.04

Notes:

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