



**COMPUTATIONAL EME COMPLIANCE ASSESSMENT OF THE DIGITAL
VEHICULAR REPEATER (DVR VHF), MOBEXCOM DVRS VHF (DQPM DVRS3000P)
AND COMPANION APX SERIES MODEL M37TSS9PW1AN MOBILE RADIO.**

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Introduction

This report summarizes the computational [numerical modeling] analysis performed to document compliance of the DVR VHF, model # MOBEXCOM DVRS VHF (DQPM DVRS3000P) with FCC ID # LO6-DVRSVHF and IC# 2098B-DVRSVHF interfaced with, and transmitting simultaneously with companion mobile radio, model #M37TSS9PW1AN and vehicle-mounted antennas with the US Federal Communications Commission (FCC) and Innovation, Science and Economic Development (ISED) Canada guidelines for human exposure to radio frequency (RF) emissions. The devices operate in the following frequency bands:

Regions	Device	Bands	Frequency Band (MHz)
US FCC	DVR VHF	VHF Band	150.8-173.4
	Companion Mobile	LMR VHF	150.8-173.4
		LMR UHF1	406.1 – 470
		LMR UHF2	450 -512
		LMR 7/800	769-775; 799-824; 851-869
ISED Canada	DVR VHF	VHF Band	138 - 174
	Companion Mobile	LMR VHF	138 - 174
		LMR UHF1	406.1 – 430; 450 -470
		LMR UHF2	450 -470
		LMR 7/800	769-775; 799-824; 851-869

This computational analysis supplements the measurements conducted to evaluate the compliance of the exposure from this DVR and companion mobile radio with respect to

applicable *maximum permissible exposure* (MPE) limits. All test conditions (129 in total) that did not conform with applicable MPE limits were analyzed to determine whether those conditions complied with the *specific absorption rate* (SAR) limits for general public exposure (1.6 W/kg averaged over 1 gram of tissue and 0.08 W/kg averaged over the whole body) set forth in FCC guidelines, which are based on the IEEE C95.1-1999 standard [1]. The same test conditions were also analyzed to determine compliance with the SAR limits set forth in the ICNIRP [3] guidelines and IEEE Std. C95.1-2005 standard [4] (2.0 W/kg averaged over 10 gram of tissue and 0.08 W/kg averaged over the whole body). In total 258 independent simulations had been performed addressing exposure of back seat passenger to the DVR VHF repeater with trunk-mounted antennas and Companion mobile radio (VHF, UHF R1, UHF R2 and 7/800) with roof-mount antennas.

For all simulations a commercial code based on Finite-Difference-Time-Domain (FDTD) methodology was employed to carry out the computational analysis. It is well established and recognized within the scientific community that SAR is the primary dosimetric quantity used to evaluate the human body's absorption of RF energy and that MPE limits are in fact derived from SAR. Accordingly, the SAR computations provide a scientifically valid and more relevant estimate of human exposure to RF energy.

Method

The simulation code employed is XFDTD™ v7.6.0, by Remcom Inc., State College, PA. This computational suite provides means to simulate the heterogeneous full human body model defined according to the IEC/IEEE 62704-2-2017 standard and derived from the so-called Visible Human [2], discretized in 3 mm voxels. The IEC/IEEE 62704-2-2017 standard dielectric properties of 39 body tissues are automatically assigned by XFDTD™ at any specific frequency. The “seated” man model was obtained from the standing model by modifying the articulation angles at the hips and the knees. Details of the computational method and model are provided in the Appendix A to this report. The evaluation of the computational uncertainties and results of the benchmark validations are provided in the Appendix B attached to this report. The XFDTD code validation performed according to IEEE/IEC 62704-1 draft standard by Remcom Inc., is provided in conjunction with this report.

The car model has been imported into XFDTD™ from the CAD file of a sedan car having dimensions 4.98 m (L) x 1.85 m (W) x 1.18 m (H), and discretized with the minimum resolution of 3 mm and the maximum resolution of 8mm. The Figure 1 below show both the CAD model and the photo of the actual car This CAD model has been incorporated into the IEC/IEEE 62704-2-2017 standard.

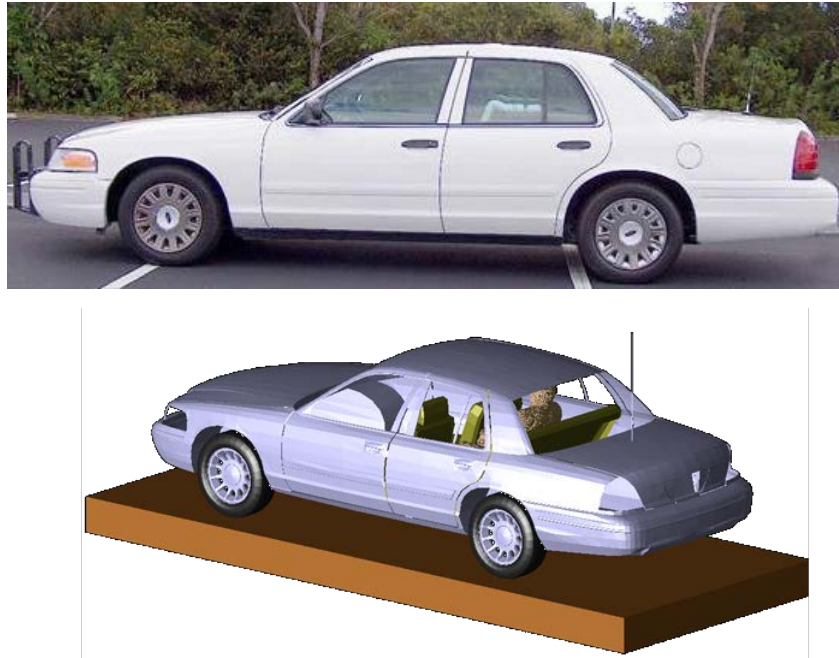


Figure 1: The photo picture of the car used in field measurements and the corresponding CAD model used in simulations

For passenger exposure, the antenna position is on the trunk and the distance of trunk mounted antenna from the passenger head when the passenger is located in the center of the back seat was set at 85 cm, to replicate the experimental conditions used in MPE measurements. Figure 2 shows some of the XFDTD™ computational models used for passenger exposure to trunk mounted antennas

According to the IEC/IEEE 62704-2-2017 standard for exposure simulations from vehicle mount antennas the lossy dielectric slab with 30 cm thickness, dielectric constant of 8 and conductivity of 0.01 S/m has been introduced in the computational model to properly account for the effect of the ground (pavement) on exposure.

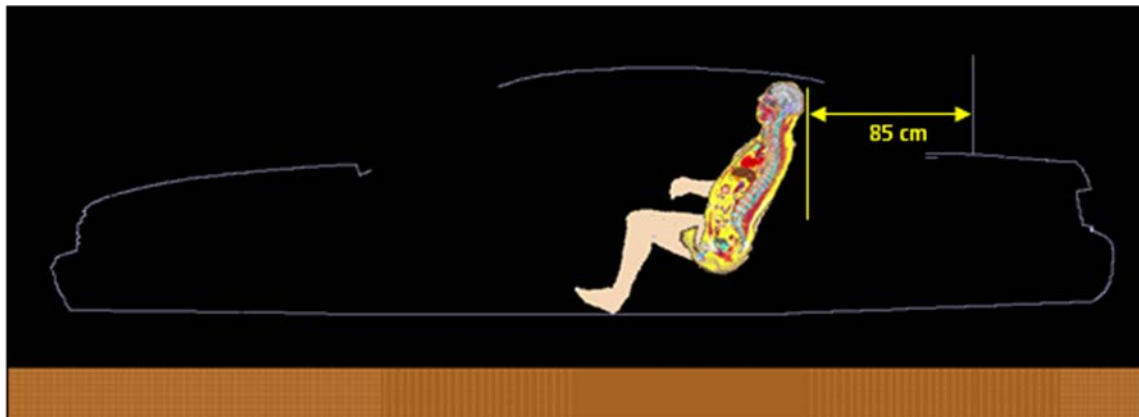
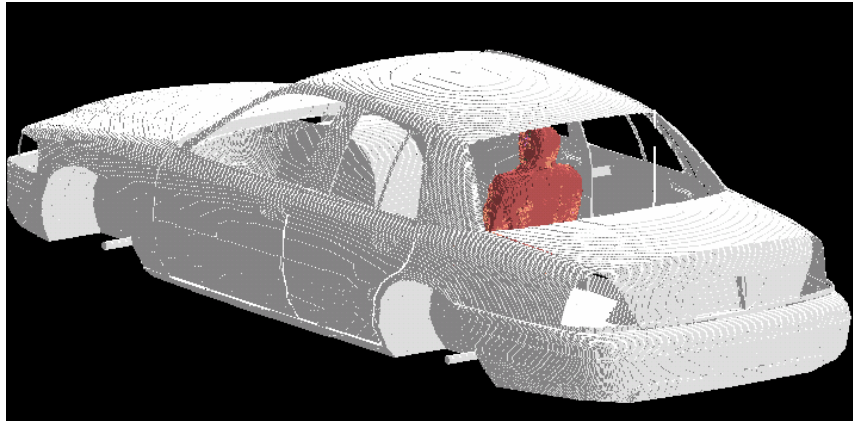




Figure 2: Passenger model exposed to a trunk-mount antenna: XFDTD geometry.

The antenna is mounted at 85 cm from the passenger located in the center of the back seat.

The computational code employs a time-harmonic excitation to produce a steady state electromagnetic field in the exposed body. Subsequently, the corresponding SAR distribution is automatically processed in order to determine the whole-body, 1-g, and 10-g average SAR. The maximum average output power from DVR VHF repeater is 6W (136-174 MHz) and companion mobile radio antenna is 60W (136-174MHz), 54W (380-484MHz), 48W (485-512MHz), 30W (512-520MHz), 36W (764-805MHz) and 42W (806-870MHz). Since the ohmic losses in the car materials, as well as the mismatch losses at the antenna feed-point are neglected, and source-based time averaging (100% talk time) for DVR VHF repeater and (50% talk time) for companion mobile radio were employed, all computational results are normalized full to DVR VHF repeater 6W (136-174 MHz) and companion mobile radio is half of it, i.e., 30W (136-174MHz), 27W (380-484MHz), 24W (485-512MHz), 15W (512-520MHz), 18W (764-805MHz) and 21W (806-870MHz) average net output power; less the corresponding minimum insertion loss in excess of 0.5 dB of the feed cables supplied with the antennas. This power normalization is in accordance with the IEC/IEEE 62704-2-2017 standard.

Results of SAR computations for car passengers

The test conditions requiring SAR computations are summarized in Table 1 (DVR VHF, 100% talk time) and Table 2 (Companion mobile, 50% talk time), together with the antenna data, the SAR results, and power density (P.D.) as obtained from the measurements in the corresponding test conditions. The conditions are for antennas mounted on the trunk (DVR VHF) and side roof, offset 20cm from center of the roof (Companion mobile). The antenna length in Table 1&2 includes the 1.8 cm magnetic mount base used in measurements to position the antenna on the vehicle. The same length was used in simulation model.

The passenger is located in the center or on the side of the rear seat corresponding to the respective configurations defined in the IEC/IEEE 62704-2-2017 standard.

All the transmit frequency, antenna length, and passenger location combinations reported in Table 1 & 2 have been simulated individually. These tables also include the interpolated adjustment factor and corresponding SAR scaled values following requirement of the IEC/IEEE 62704-2-2017 standard.

Table 1a (configurations exceed FCC MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
DVR VHF repeater (100% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	50.8	150.8000	0.10	Back Center	0.18	0.11	0.008	1.90	2.00	2.40	0.34	0.22	0.019
					Back Side	0.06	0.05	0.005	4.19	4.39	3.00	0.27	0.21	0.015
	HAD4008A, 1/4 Wave (150.8-162MHz)	47.3	150.8000	0.10	Back Center	0.18	0.11	0.008	1.90	2.00	2.40	0.34	0.22	0.019
					Back Side	0.06	0.05	0.005	4.19	4.39	3.00	0.27	0.21	0.015
		47.3	156.4000	0.14	Back Center	0.12	0.08	0.007	1.91	2.01	2.41	0.23	0.15	0.017
					Back Side	0.15	0.08	0.006	4.15	4.36	2.99	0.63	0.36	0.018
		47.3	162.0000	0.23	Back Center	0.16	0.10	0.007	1.92	2.02	2.42	0.31	0.20	0.018
					Back Side	0.16	0.14	0.006	4.11	4.32	2.98	0.67	0.61	0.019
	HAD4009A, 1/4 Wave (162-174MHz)	44.8	162.0000	0.17	Back Center	0.16	0.10	0.008	1.92	2.02	2.42	0.31	0.20	0.018
					Back Side	0.17	0.14	0.007	4.11	4.32	2.98	0.68	0.62	0.020
		44.8	167.7000	0.16	Back Center	0.13	0.08	0.006	1.93	2.02	2.42	0.25	0.16	0.015
					Back Side Fig. 3 & 4	0.17	0.15	0.005	4.07	4.28	2.98	0.70	0.66	0.016
		44.8	173.4000	0.19	Back Center	0.10	0.06	0.005	1.94	2.03	2.43	0.19	0.12	0.013
					Back Side	0.13	0.09	0.005	4.03	4.24	2.97	0.52	0.39	0.015

Table 1b (configurations exceed ISED MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
DVR VHF repeater (100% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	53.8	140.0000	0.20	Back Center	0.07	0.04	0.003	1.77	1.86	2.26	0.12	0.08	0.007
					Back Side	0.05	0.03	0.003	3.74	3.91	2.71	0.20	0.12	0.008
			144.0000	0.17	Back Center	0.18	0.12	0.008	1.82	1.91	2.31	0.34	0.22	0.018
					Back Side	0.07	0.04	0.005	3.93	4.11	2.83	0.27	0.17	0.014
	HAD4007A, 1/4 Wave (144-150.8MHz)	50.8	144.0000	0.15	Back Center	0.18	0.12	0.008	1.82	1.91	2.31	0.34	0.22	0.018
					Back Side	0.07	0.04	0.005	3.93	4.11	2.83	0.27	0.17	0.014
			#150.8000	0.10	Back Center	0.18	0.11	0.008	1.90	2.00	2.40	0.34	0.22	0.019
					Back Side	0.06	0.05	0.005	4.19	4.39	3.00	0.27	0.21	0.015
	HAD4008A, 1/4 Wave (150.8-162MHz)	47.3	#150.8000	0.10	Back Center	0.18	0.11	0.008	1.90	2.00	2.40	0.34	0.22	0.019
					Back Side	0.06	0.05	0.005	4.19	4.39	3.00	0.27	0.21	0.015
			#156.4000	0.14	Back Center	0.12	0.08	0.007	1.91	2.01	2.41	0.23	0.15	0.017
					Back Side	0.15	0.08	0.006	4.15	4.36	2.99	0.63	0.36	0.018
			#162.0000	0.23	Back Center	0.16	0.10	0.007	1.92	2.02	2.42	0.31	0.20	0.018
					Back Side	0.16	0.14	0.006	4.11	4.32	2.98	0.67	0.61	0.019
	HAD4009A, 1/4 Wave (162-174MHz)	44.8	#162.0000	0.17	Back Center	0.16	0.10	0.008	1.92	2.02	2.42	0.31	0.20	0.018
					Back Side	0.17	0.14	0.007	4.11	4.32	2.98	0.68	0.62	0.020
			#167.7000	0.16	Back Center	0.13	0.08	0.006	1.93	2.02	2.42	0.25	0.16	0.015
					Back Side	0.17	0.15	0.005	4.07	4.28	2.98	0.70	0.66	0.016
			#173.4000	0.19	Back Center	0.10	0.06	0.005	1.94	2.03	2.43	0.19	0.12	0.013
					Back Side	0.13	0.09	0.005	4.03	4.24	2.97	0.52	0.39	0.015

Note: # Same SAR simulation configuration as FCC US.

Table 2a (configurations exceed FCC MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	128.6	150.8000	0.02	Back Center	0.06	0.05	0.002	1.21	1.01	2.01	0.07	0.05	0.003
					Back Side	0.10	0.09	0.002	1.00	1.00	1.50	0.10	0.09	0.003
		118.3	158.0125	0.03	Back Center	0.05	0.04	0.001	1.27	1.07	2.07	0.06	0.04	0.003
					Back Side	0.06	0.04	0.001	1.02	1.03	1.53	0.06	0.05	0.001
		114.3	165.0125	0.01	Back Center	0.02	0.01	0.001	1.34	1.14	2.14	0.03	0.01	0.002
					Back Side	0.04	0.03	0.001	1.04	1.07	1.56	0.04	0.04	0.002
		105.5	173.0125	0.02	Back Center	0.07	0.04	0.001	1.41	1.21	2.21	0.11	0.05	0.003
					Back Side	0.11	0.06	0.003	1.06	1.10	1.59	0.12	0.06	0.005
	HAD4022A, 5/8 Wave (132-174MHz)	115.8	150.8000	0.04	Back Center	0.08	0.07	0.002	1.21	1.01	2.01	0.10	0.07	0.004
					Back Side	0.14	0.12	0.002	1.00	1.00	1.50	0.14	0.12	0.003
		104.5	158.0125	0.06	Back Center	0.06	0.05	0.002	1.27	1.07	2.07	0.08	0.06	0.004
					Back Side	0.09	0.07	0.001	1.02	1.03	1.53	0.09	0.07	0.002
		98.3	165.0125	0.04	Back Center	0.03	0.02	0.001	1.34	1.14	2.14	0.03	0.02	0.003
					Back Side	0.07	0.04	0.002	1.04	1.07	1.56	0.08	0.05	0.003
		91.7	173.0125	0.05	Back Center	0.12	0.07	0.002	1.41	1.21	2.21	0.17	0.09	0.005
					Back Side	0.18	0.10	0.005	1.06	1.10	1.59	0.19	0.11	0.008
	HAD4016A, 1/4 Wave (136-162MHz)	53.1	150.8000	0.12	Back Center	0.12	0.11	0.003	1.21	1.01	2.01	0.15	0.11	0.006
					Back Side	0.27	0.23	0.004	1.00	1.00	1.50	0.27	0.23	0.006
		53.1	156.4000	0.13	Back Center	0.12	0.10	0.003	1.26	1.06	2.06	0.15	0.11	0.005
					Back Side	0.17	0.14	0.002	1.02	1.03	1.53	0.17	0.14	0.004
		53.1	162.0000	0.10	Back Center	0.03	0.02	0.001	1.31	1.11	2.11	0.04	0.02	0.003
					Back Side	0.11	0.09	0.002	1.03	1.05	1.55	0.11	0.10	0.003

Table 2a continued (configurations exceed FCC MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	HAD4017A, 1/4 Wave (146-174MHz)	48.0	150.8000	0.10	Back Center	0.12	0.11	0.003	1.21	1.01	201	0.15	0.11	0.006
					Back Side	0.27	0.23	0.004	1.00	1.00	1.50	0.27	0.23	0.006
			158.0125	0.12	Back Center	0.08	0.07	0.002	1.27	1.07	2.07	0.11	0.08	0.005
					Back Side	0.14	0.12	0.002	1.02	1.03	1.53	0.15	0.12	0.003
			165.0125	0.09	Back Center	0.03	0.02	0.001	1.34	1.14	2.14	0.03	0.02	0.003
					Back Side	0.09	0.06	0.002	1.04	1.07	1.56	0.09	0.07	0.003
			173.0125	0.05	Back Center	0.15	0.09	0.003	1.41	1.21	2.21	0.21	0.11	0.006
					Back Side	0.25	0.14	0.007	1.06	1.10	1.59	0.26	0.15	0.010
	HAD4021A, 1/4 Wave (136-174MHz)	53.5	150.8000	0.09	Back Center	0.12	0.10	0.003	1.21	1.01	2.01	0.15	0.11	0.006
					Back Side	0.27	0.23	0.004	1.00	1.00	1.50	0.27	0.23	0.006
			158.0125	0.14	Back Center	0.08	0.07	0.002	1.27	1.07	2.07	0.11	0.08	0.005
					Back Side	0.14	0.12	0.002	1.02	1.03	1.53	0.14	0.12	0.003
			165.0125	0.08	Back Center	0.03	0.02	0.001	1.34	1.14	2.14	0.03	0.02	0.003
					Back Side	0.09	0.06	0.002	1.04	1.07	1.56	0.09	0.07	0.003
			173.0125	0.04	Back Center	0.15	0.09	0.003	1.41	1.21	2.21	0.21	0.11	0.006
					Back Side	0.24	0.13	0.007	1.06	1.10	1.59	0.26	0.15	0.010
	HAD4007A, 1/4 Wave (144-150.8MHz)	50.8	150.8000	0.18	Back Center	0.12	0.11	0.003	1.21	1.01	2.01	0.15	0.11	0.006
					Back Side	0.27	0.23	0.004	1.00	1.00	1.50	0.27	0.23	0.006

Table 2a continued (configurations exceed FCC MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	47.3	150.8000	0.17	Back Center	0.12	0.11	0.003	1.21	1.01	2.01	0.15	0.11	0.006
					Back Side	0.27	0.23	0.004	1.00	1.00	1.50	0.27	0.23	0.006
			156.4000	0.17	Back Center	0.12	0.10	0.003	1.26	1.06	2.06	0.15	0.11	0.005
					Back Side	0.17	0.14	0.002	1.02	1.03	1.53	0.18	0.14	0.004
			162.0000	0.18	Back Center	0.03	0.02	0.001	1.31	1.11	2.11	0.04	0.02	0.003
					Back Side	0.11	0.09	0.002	1.03	1.05	1.55	0.11	0.10	0.003
	HAD4009A, 1/4 Wave (162-174MHz)	44.8	162.0000	0.16	Back Center	0.03	0.02	0.001	1.31	1.11	2.11	0.04	0.02	0.003
					Back Side	0.11	0.09	0.002	1.03	1.05	1.55	0.11	0.10	0.003
			165.0125	0.14	Back Center	0.02	0.01	0.001	1.34	1.14	2.14	0.03	0.02	0.003
					Back Side	0.09	0.06	0.002	1.04	1.07	1.56	0.09	0.07	0.003
			173.0125	0.09	Back Center	0.15	0.09	0.003	1.41	1.21	2.21	0.21	0.11	0.006
					Back Side	0.25	0.14	0.007	1.06	1.10	1.59	0.26	0.15	0.010
	HAE6010A, 1/2 Wave (380-433MHz)	65.3	406.5000	0.06	Back Center	0.15	0.09	0.004	3.51	3.39	4.31	0.52	0.30	0.018
					Back Side	0.23	0.18	0.004	1.68	2.11	2.53	0.38	0.38	0.011
			419.5000	0.03	Back Center Fig. 5 & 6	0.30	0.17	0.004	3.63	3.52	4.43	1.09	0.59	0.019
					Back Side	0.14	0.11	0.005	1.72	2.17	2.58	0.25	0.23	0.013
			432.9875	0.03	Back Center	0.16	0.10	0.005	3.67	3.56	4.47	0.60	0.35	0.021
					Back Side	0.10	0.06	0.004	1.73	2.19	2.60	0.17	0.14	0.011
	HAE6011A, 5/8 Wave (380-433MHz)	92.8	406.5000	0.01	Back Center	0.09	0.05	0.002	3.51	3.39	4.31	0.32	0.19	0.009
					Back Side	0.12	0.10	0.003	1.68	2.11	2.53	0.21	0.20	0.007
			419.5000	0.01	Back Center	0.13	0.07	0.002	3.63	3.52	4.43	0.46	0.24	0.011
					Back Side	0.06	0.04	0.003	1.72	2.17	2.58	0.11	0.09	0.008
			432.9875	0.01	Back Center	0.07	0.04	0.003	3.67	3.56	4.47	0.27	0.15	0.011
					Back Side	0.06	0.04	0.002	1.73	2.19	2.60	0.11	0.08	0.006

Table 2a continued (configurations exceed FCC MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	HAE6012A, 1/4 Wave (380-433MHz)	20.0	406.5000	0.05	Back Center	0.13	0.09	0.004	3.51	3.39	4.31	0.46	0.29	0.017
					Back Side	0.26	0.19	0.005	1.68	2.11	2.53	0.43	0.41	0.012
			419.5000	0.02	Back Center	0.25	0.13	0.004	3.63	3.52	4.43	0.89	0.47	0.016
					Back Side	0.11	0.08	0.005	1.72	2.17	2.58	0.19	0.18	0.012
			432.9875	0.03	Back Center	0.12	0.07	0.004	3.75	3.64	4.55	0.46	0.26	0.017
					Back Side	0.10	0.06	0.003	1.75	2.23	2.63	0.18	0.13	0.007
	HAE6013A, 1/2 Wave (380-470MHz)	30.8	406.5000	0.05	Back Center	0.13	0.10	0.004	3.51	3.39	4.31	0.46	0.32	0.019
					Back Side	0.29	0.21	0.005	1.68	2.11	2.53	0.49	0.44	0.012
			422.0125	0.02	Back Center	0.23	0.13	0.004	3.65	3.54	4.45	0.83	0.45	0.019
					Back Side	0.11	0.06	0.004	1.73	2.18	2.59	0.19	0.14	0.011
			438.0125	0.05	Back Center	0.15	0.08	0.004	3.79	3.69	4.59	0.58	0.29	0.016
					Back Side	0.11	0.06	0.003	1.77	2.25	2.65	0.19	0.14	0.007
			450.0125	0.04	Back Center	0.14	0.08	0.003	3.90	3.80	4.70	0.55	0.29	0.016
					Back Side	0.11	0.06	0.003	1.80	2.30	2.70	0.19	0.15	0.007
			460.0000	0.02	Back Center	0.19	0.10	0.003	3.86	3.75	4.64	0.72	0.37	0.012
					Back Side	0.07	0.04	0.002	1.80	2.28	2.69	0.13	0.10	0.007
			469.9875	0.05	Back Center	0.12	0.08	0.002	3.83	3.71	4.59	0.46	0.28	0.011
					Back Side	0.07	0.06	0.003	1.81	2.25	2.68	0.13	0.12	0.008

Table 2a continued (configurations exceed FCC MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	HAE6031A, 1/2 Wave (380-520MHz)	29.8	406.5000	0.06	Back Center	0.13	0.09	0.004	3.51	3.39	4.31	0.45	0.32	0.019
					Back Side	0.29	0.21	0.005	1.68	2.11	2.53	0.48	0.44	0.012
			422.0125	0.03	Back Center	0.22	0.12	0.004	3.65	3.54	4.45	0.81	0.44	0.018
					Back Side	0.11	0.06	0.004	1.73	2.18	2.59	0.19	0.14	0.011
			438.0125	0.05	Back Center	0.15	0.08	0.004	3.79	3.69	4.59	0.57	0.29	0.016
					Back Side	0.10	0.06	0.003	1.77	2.25	2.65	0.19	0.14	0.007
			450.0125	0.05	Back Center	0.14	0.08	0.003	3.90	3.80	4.70	0.54	0.29	0.015
					Back Side	0.11	0.06	0.003	1.80	2.30	2.70	0.19	0.14	0.007
			469.9875	0.05	Back Center	0.12	0.07	0.002	3.83	3.71	4.59	0.45	0.28	0.011
					Back Side	0.07	0.05	0.003	1.81	2.25	2.68	0.13	0.12	0.008
			482.5000	0.04	Back Center	0.17	0.10	0.003	3.78	3.65	4.51	0.66	0.37	0.012
					Back Side	0.19	0.15	0.003	1.81	2.23	2.66	0.35	0.32	0.009
			496.5000	0.02	Back Center	0.05	0.04	0.002	3.73	3.59	4.43	0.20	0.13	0.010
					Back Side	0.11	0.08	0.003	1.81	2.19	2.65	0.20	0.19	0.007
			511.9875	0.01	Back Center	0.05	0.04	0.002	3.67	3.52	4.35	0.19	0.13	0.008
					Back Side	0.05	0.04	0.002	1.82	2.16	2.63	0.09	0.08	0.005
	RAE4014ARB, 5/8 Wave (445-470MHz)	94.5	450.0125	0.01	Back Center	0.03	0.02	0.001	3.90	3.80	4.70	0.11	0.07	0.004
					Back Side	0.03	0.02	0.001	1.80	2.30	2.70	0.05	0.04	0.002
		92.3	460.0000	0.004	Back Center	0.02	0.01	0.001	3.86	3.75	4.64	0.07	0.05	0.003
					Back Side	0.03	0.02	0.001	1.80	2.28	2.69	0.06	0.05	0.003
		90.8	469.9875	0.01	Back Center	0.05	0.03	0.001	3.83	3.71	4.59	0.19	0.11	0.004
					Back Side	0.04	0.02	0.001	1.81	2.25	2.68	0.07	0.05	0.004

Table 2a continued (configurations exceed FCC MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	HAE4011A, 1/2 Wave (450-470MHz)	75	450.0125	0.01	Back Center	0.05	0.03	0.001	3.90	3.80	4.70	0.18	0.10	0.005
					Back Side	0.05	0.03	0.001	1.80	2.30	2.70	0.08	0.06	0.003
			460.0000	0.01	Back Center	0.05	0.03	0.001	3.86	3.75	4.64	0.21	0.12	0.004
					Back Side	0.04	0.03	0.001	1.80	2.28	2.69	0.07	0.06	0.002
			469.9875	0.01	Back Center	0.06	0.03	0.001	3.83	3.71	4.59	0.22	0.12	0.004
					Back Side	0.02	0.02	0.001	1.81	2.25	2.68	0.04	0.04	0.003
	HAE4003A, 1/4 Wave (450-470MHz)	17.8	450.0125	0.04	Back Center	0.12	0.06	0.003	3.90	3.80	4.70	0.46	0.24	0.014
					Back Side	0.10	0.06	0.002	1.80	2.30	2.70	0.17	0.13	0.007
			460.0000	0.03	Back Center	0.15	0.08	0.002	3.86	3.75	4.64	0.57	0.30	0.010
					Back Side	0.07	0.04	0.002	1.80	2.28	2.69	0.13	0.09	0.006
			469.9875	0.03	Back Center	0.10	0.06	0.002	3.83	3.71	4.59	0.37	0.23	0.009
					Back Side	0.06	0.04	0.003	1.81	2.25	2.68	0.11	0.10	0.007
	HAE6016A, 1/4 Wave (450-512MHz)	10.1	450.0125	0.04	Back Center	0.11	0.06	0.003	3.90	3.80	4.70	0.45	0.24	0.013
					Back Side	0.09	0.06	0.002	1.80	2.30	2.70	0.17	0.13	0.006
			460.0000	0.04	Back Center	0.14	0.07	0.002	3.86	3.75	4.64	0.53	0.28	0.009
					Back Side	0.07	0.04	0.002	1.80	2.28	2.69	0.13	0.09	0.005
			469.9875	0.04	Back Center	0.09	0.06	0.002	3.83	3.71	4.59	0.36	0.22	0.009
					Back Side	0.06	0.04	0.002	1.81	2.25	2.68	0.11	0.10	0.007
			482.5000	0.04	Back Center	0.15	0.09	0.002	3.78	3.65	4.51	0.56	0.31	0.010
					Back Side	0.16	0.12	0.003	1.81	2.23	2.66	0.29	0.27	0.007
			496.5000	0.02	Back Center	0.04	0.03	0.002	3.73	3.59	4.43	0.16	0.11	0.008
					Back Side	0.08	0.06	0.002	1.81	2.19	2.65	0.15	0.14	0.005
			511.9875	0.02	Back Center	0.04	0.03	0.001	3.67	3.52	4.35	0.13	0.10	0.006
					Back Side	0.05	0.03	0.002	1.82	2.16	2.63	0.09	0.07	0.004

Table 2a continued (configurations exceed FCC MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	HAE6015A, 1/2 Wave (450-520MHz)	28.0	450.0125	0.05	Back Center	0.14	0.07	0.003	3.90	3.80	4.70	0.53	0.28	0.015
					Back Side	0.10	0.06	0.003	1.80	2.30	2.70	0.19	0.14	0.007
			460.0000	0.04	Back Center	0.18	0.09	0.002	3.86	3.75	4.64	0.68	0.35	0.011
					Back Side	0.07	0.04	0.002	1.80	2.28	2.69	0.13	0.10	0.006
			469.9875	0.04	Back Center	0.11	0.07	0.002	3.83	3.71	4.59	0.44	0.27	0.010
					Back Side	0.07	0.05	0.003	1.81	2.25	2.68	0.12	0.12	0.008
			482.5000	0.04	Back Center	0.17	0.10	0.003	3.78	3.65	4.51	0.65	0.36	0.012
					Back Side	0.19	0.14	0.003	1.81	2.23	2.66	0.34	0.32	0.009
			496.5000	0.02	Back Center	0.05	0.04	0.002	3.73	3.59	4.43	0.20	0.13	0.010
					Back Side	0.10	0.08	0.002	1.81	2.19	2.65	0.19	0.18	0.006
			511.9875	0.02	Back Center	0.05	0.04	0.002	3.67	3.52	4.35	0.18	0.13	0.008
					Back Side	0.05	0.04	0.002	1.82	2.16	2.63	0.09	0.08	0.005
	HAE4004A, 1/4 Wave (470-512MHz)	16.8	470.0125	0.01	Back Center	0.10	0.06	0.002	3.83	3.71	4.59	0.37	0.23	0.009
					Back Side	0.06	0.04	0.003	1.81	2.25	2.68	0.11	0.10	0.007
			482.5000	0.01	Back Center	0.15	0.09	0.002	3.78	3.65	4.51	0.58	0.32	0.011
					Back Side	0.16	0.13	0.003	1.81	2.23	2.66	0.30	0.28	0.008
			496.5000	0.02	Back Center	0.04	0.03	0.002	3.73	3.59	4.43	0.17	0.11	0.009
					Back Side	0.09	0.07	0.002	1.81	2.19	2.65	0.15	0.15	0.006
			511.9875	0.02	Back Center	0.04	0.03	0.001	3.67	3.52	4.35	0.14	0.10	0.006
					Back Side	0.05	0.03	0.002	1.82	2.16	2.63	0.09	0.07	0.004

Table 2a continued (configurations exceed FCC MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	HAE4012A, 1/2 Wave (470-495MHz)	70.3	470.0125	0.01	Back Center	0.06	0.04	0.001	3.83	3.71	4.59	0.21	0.13	0.005
					Back Side	0.03	0.02	0.001	1.81	2.25	2.68	0.06	0.05	0.003
			482.5000	0.01	Back Center	0.05	0.03	0.001	3.78	3.65	4.51	0.17	0.11	0.004
					Back Side	0.05	0.03	0.001	1.81	2.23	2.66	0.08	0.06	0.002
			494.9875	0.01	Back Center	0.03	0.02	0.001	3.73	3.59	4.44	0.11	0.06	0.004
					Back Side	0.02	0.01	0.001	1.81	2.20	2.65	0.04	0.03	0.002
	HAE4013A, 1/2 Wave (494-512MHz)	66.1	494.9875	0.01	Back Center	0.03	0.02	0.001	3.73	3.59	4.44	0.12	0.07	0.005
					Back Side	0.02	0.02	0.001	1.81	2.20	2.65	0.05	0.04	0.002
			503.0000	0.002	Back Center	0.03	0.02	0.001	3.70	3.56	4.40	0.12	0.07	0.005
					Back Side	0.04	0.02	0.001	1.82	2.18	2.64	0.07	0.05	0.003
			511.9875	0.01	Back Center	0.02	0.01	0.001	3.67	3.52	4.35	0.08	0.05	0.004
					Back Side	0.04	0.03	0.001	1.82	2.16	2.63	0.08	0.06	0.002
	RAE4016ARB, 5/8 Wave (494-512MHz)	87.5	494.9875	0.004	Back Center	0.02	0.01	0.0004	3.73	3.59	4.44	0.07	0.04	0.002
					Back Side	0.03	0.02	0.001	1.81	2.20	2.65	0.06	0.05	0.002
		85.4	503.0000	0.01	Back Center	0.02	0.01	0.001	3.70	3.56	4.40	0.06	0.05	0.002
					Back Side	0.02	0.02	0.001	1.82	2.18	2.64	0.04	0.04	0.002
		85.1	511.9875	0.01	Back Center	0.02	0.01	0.0005	3.67	3.52	4.35	0.08	0.05	0.002
					Back Side	0.03	0.02	0.001	1.82	2.16	2.63	0.05	0.04	0.002

Table 2a continued (configurations exceed FCC MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	HAF4013A, 1/4 Wave (764-870MHz)	7.9	770.0125	0.02	Back Center	0.03	0.02	0.001	2.71	2.34	2.87	0.08	0.05	0.002
					Back Side	0.03	0.02	0.001	1.89	1.57	2.33	0.07	0.03	0.002
			775.9125	0.02	Back Center	0.04	0.02	0.001	2.69	2.31	2.84	0.10	0.06	0.002
					Back Side	0.03	0.02	0.001	1.89	1.56	2.33	0.05	0.02	0.002
			806.0125	0.02	Back Center	0.03	0.02	0.001	2.69	2.28	2.79	0.07	0.04	0.002
					Back Side	0.04	0.02	0.001	1.92	1.55	2.32	0.08	0.03	0.003
			823.9875	0.03	Back Center	0.02	0.01	0.001	2.96	2.51	3.06	0.05	0.03	0.003
					Back Side	0.02	0.02	0.001	1.97	1.69	2.40	0.04	0.03	0.002
			851.0125	0.02	Back Center	0.02	0.01	0.001	3.37	2.86	3.47	0.06	0.04	0.003
					Back Side	0.04	0.02	0.001	2.05	1.91	2.50	0.07	0.04	0.002
			862.0125	0.01	Back Center	0.02	0.02	0.001	3.53	3.01	3.63	0.07	0.05	0.003
					Back Side	0.03	0.02	0.001	2.09	2.00	2.55	0.05	0.04	0.002
			868.8875	0.01	Back Center	0.03	0.02	0.001	3.63	3.10	3.73	0.12	0.07	0.003
					Back Side	0.03	0.02	0.001	2.11	2.05	2.58	0.06	0.04	0.002
	HAF4014A, 1/4 Wave (764-870MHz)	59.5	770.0125	0.02	Back Center	0.01	0.005	0.0002	2.71	2.34	2.87	0.02	0.01	0.001
					Back Side	0.01	0.004	0.0002	1.89	1.57	2.33	0.01	0.01	0.000
			775.9125	0.02	Back Center	0.01	0.01	0.0003	2.69	2.31	2.84	0.03	0.02	0.001
					Back Side	0.01	0.01	0.0003	1.89	1.56	2.33	0.01	0.01	0.001
			806.0125	0.02	Back Center	0.02	0.01	0.001	2.69	2.28	2.79	0.05	0.03	0.002
					Back Side	0.03	0.02	0.001	1.92	1.55	2.32	0.05	0.03	0.002
			823.9875	0.02	Back Center	0.02	0.01	0.001	2.96	2.51	3.06	0.05	0.03	0.002
					Back Side	0.01	0.01	0.001	1.97	1.69	2.40	0.03	0.02	0.001
			851.0125	0.02	Back Center	0.02	0.01	0.001	3.37	2.86	3.47	0.06	0.04	0.002
					Back Side	0.03	0.02	0.001	2.05	1.91	2.50	0.06	0.03	0.002
			862.0125	0.02	Back Center	0.02	0.01	0.001	3.53	3.01	3.63	0.07	0.04	0.003
					Back Side	0.03	0.02	0.001	2.09	2.00	2.55	0.07	0.04	0.002
			868.8875	0.01	Back Center	0.03	0.02	0.001	3.63	3.10	3.73	0.11	0.06	0.003
					Back Side	0.03	0.02	0.001	2.11	2.05	2.58	0.05	0.03	0.002

Table 2a continued (configurations exceed FCC MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	HAF4016A, 1/4 Wave (764-870MHz)	10.8	770.0125	0.02	Back Center	0.03	0.02	0.001	2.71	2.34	2.87	0.09	0.05	0.002
					Back Side	0.03	0.02	0.001	1.89	1.57	2.33	0.06	0.03	0.002
			775.9125	0.02	Back Center	0.04	0.03	0.001	2.69	2.31	2.84	0.10	0.06	0.002
					Back Side	0.03	0.02	0.001	1.89	1.56	2.33	0.05	0.03	0.002
			806.0125	0.02	Back Center	0.03	0.02	0.001	2.69	2.28	2.79	0.08	0.04	0.003
					Back Side	0.03	0.03	0.001	1.92	1.55	2.32	0.07	0.04	0.003
			823.9875	0.02	Back Center	0.02	0.01	0.001	2.96	2.51	3.06	0.06	0.03	0.003
					Back Side	0.02	0.02	0.001	1.97	1.69	2.40	0.05	0.03	0.002
			851.0125	0.01	Back Center	0.02	0.02	0.001	3.37	2.86	3.47	0.07	0.04	0.003
					Back Side	0.04	0.02	0.001	2.05	1.91	2.50	0.08	0.04	0.002
			862.0125	0.02	Back Center	0.02	0.02	0.001	3.53	3.01	3.63	0.07	0.05	0.003
					Back Side	0.03	0.02	0.001	2.09	2.00	2.55	0.05	0.04	0.003
			868.8875	0.01	Back Center	0.04	0.02	0.001	3.63	3.10	3.73	0.13	0.08	0.003
					Back Side	0.03	0.02	0.001	2.11	2.05	2.58	0.07	0.04	0.002
	HAF4017A, 1/4 Wave (764-870MHz)	36.3	770.0125	0.04	Back Center	0.06	0.04	0.002	2.71	2.34	2.87	0.16	0.10	0.005
					Back Side	0.06	0.03	0.002	1.89	1.57	2.33	0.11	0.05	0.004
			775.9125	0.05	Back Center	0.07	0.05	0.002	2.69	2.31	2.84	0.20	0.12	0.005
					Back Side	0.06	0.03	0.002	1.89	1.56	2.33	0.10	0.05	0.004
			806.0125	0.06	Back Center	0.05	0.03	0.002	2.69	2.28	2.79	0.14	0.08	0.004
					Back Side	0.07	0.05	0.002	1.92	1.55	2.32	0.14	0.07	0.005
			823.9875	0.03	Back Center	0.04	0.03	0.002	2.96	2.51	3.06	0.12	0.07	0.005
					Back Side	0.04	0.02	0.002	1.97	1.69	2.40	0.08	0.04	0.004
			851.0125	0.02	Back Center	0.03	0.02	0.001	3.37	2.86	3.47	0.11	0.07	0.004
					Back Side	0.05	0.03	0.001	2.05	1.91	2.50	0.10	0.06	0.003
			862.0125	0.01	Back Center	0.03	0.03	0.001	3.53	3.01	3.63	0.11	0.08	0.005
					Back Side	0.04	0.03	0.001	2.09	2.00	2.55	0.09	0.06	0.003
			868.8875	0.01	Back Center	0.06	0.04	0.001	3.63	3.10	3.73	0.21	0.11	0.005
					Back Side	0.04	0.03	0.001	2.11	2.05	2.58	0.09	0.06	0.003

Table 2b (configurations exceed ISED MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	132.3	146.0000	0.03	Back Center	0.06	0.05	0.002	1.19	1.00	1.94	0.07	0.05	0.003
					Back Side	0.11	0.09	0.002	1.00	1.00	1.49	0.11	0.09	0.003
		128.6	#150.8000	0.02	Back Center	0.06	0.05	0.002	1.21	1.01	2.01	0.07	0.05	0.003
					Back Side	0.10	0.09	0.002	1.00	1.00	1.50	0.10	0.09	0.003
		118.3	#158.0125	0.03	Back Center	0.05	0.04	0.001	1.27	1.07	2.07	0.06	0.04	0.003
					Back Side	0.06	0.04	0.001	1.02	1.03	1.53	0.06	0.05	0.001
		114.3	#165.0125	0.01	Back Center	0.02	0.01	0.001	1.34	1.14	2.14	0.03	0.01	0.002
					Back Side	0.04	0.03	0.001	1.04	1.07	1.56	0.04	0.04	0.002
		105.5	#173.0125	0.02	Back Center	0.07	0.04	0.001	1.41	1.21	2.21	0.11	0.05	0.003
					Back Side	0.11	0.06	0.003	1.06	1.10	1.59	0.12	0.06	0.005
	HAD4022A, 5/8 Wave (132-174MHz)	120.3	144.0000	0.04	Back Center	0.09	0.08	0.003	1.18	1.00	1.91	0.11	0.08	0.006
					Back Side	0.14	0.12	0.003	1.00	1.00	1.49	0.14	0.12	0.004
		115.8	#150.8000	0.04	Back Center	0.08	0.07	0.002	1.21	1.01	2.01	0.10	0.07	0.004
					Back Side	0.14	0.12	0.002	1.00	1.00	1.50	0.14	0.12	0.003
		104.5	#158.0125	0.06	Back Center	0.06	0.05	0.002	1.27	1.07	2.07	0.08	0.06	0.004
					Back Side	0.09	0.07	0.001	1.02	1.03	1.53	0.09	0.07	0.002
		98.3	#165.0125	0.04	Back Center	0.03	0.02	0.001	1.34	1.14	2.14	0.03	0.02	0.003
					Back Side	0.07	0.04	0.002	1.04	1.07	1.56	0.08	0.05	0.003
		91.7	#173.0125	0.05	Back Center	0.12	0.07	0.002	1.41	1.21	2.21	0.17	0.09	0.005
					Back Side	0.18	0.10	0.005	1.06	1.10	1.59	0.19	0.11	0.008
	HAD4016A, 1/4 Wave (136-162MHz)	53.1	144.0000	0.11	Back Center	0.16	0.14	0.006	1.18	1.00	1.91	0.19	0.14	0.011
					Back Side	0.27	0.23	0.006	1.00	1.00	1.49	0.27	0.23	0.008
		53.1	#150.8000	0.12	Back Center	0.12	0.11	0.003	1.21	1.01	2.01	0.15	0.11	0.006
					Back Side	0.27	0.23	0.004	1.00	1.00	1.50	0.27	0.23	0.006
		53.1	#156.4000	0.13	Back Center	0.12	0.10	0.003	1.26	1.06	2.06	0.15	0.11	0.005
					Back Side	0.17	0.14	0.002	1.02	1.03	1.53	0.17	0.14	0.004
		53.1	#162.0000	0.10	Back Center	0.03	0.02	0.001	1.31	1.11	2.11	0.04	0.02	0.003
					Back Side	0.11	0.09	0.002	1.03	1.05	1.55	0.11	0.10	0.003

Note: # Same SAR simulation configuration as FCC US.

Table 2b continued (configurations exceed ISSED MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	HAD4017A, 1/4 Wave (146-174MHz)	48.0	146.0000	0.09	Back Center	0.13	0.11	0.004	1.19	1.00	1.94	0.15	0.11	0.009
					Back Side	0.27	0.23	0.005	1.00	1.00	1.49	0.27	0.23	0.007
			#150.8000	0.10	Back Center	0.12	0.11	0.003	1.21	1.01	2.01	0.15	0.11	0.006
					Back Side	0.27	0.23	0.004	1.00	1.00	1.50	0.27	0.23	0.006
			158.0125	0.12	Back Center	0.08	0.07	0.002	1.27	1.07	2.07	0.11	0.08	0.005
					Back Side	0.14	0.12	0.002	1.02	1.03	1.53	0.15	0.12	0.003
			#165.0125	0.09	Back Center	0.03	0.02	0.001	1.34	1.14	2.14	0.03	0.02	0.003
					Back Side	0.09	0.06	0.002	1.04	1.07	1.56	0.09	0.07	0.003
			#173.0125	0.05	Back Center	0.15	0.09	0.003	1.41	1.21	2.21	0.21	0.11	0.006
					Back Side	0.25	0.14	0.007	1.06	1.10	1.59	0.26	0.15	0.010
	HAD4021A, 1/4 Wave (136-174MHz)	53.5	144.0000	0.14	Back Center	0.16	0.13	0.006	1.18	1.00	1.91	0.19	0.13	0.011
					Back Side	0.27	0.23	0.006	1.00	1.00	1.49	0.27	0.23	0.008
			#150.8000	0.09	Back Center	0.12	0.10	0.003	1.21	1.01	2.01	0.15	0.11	0.006
					Back Side	0.27	0.23	0.004	1.00	1.00	1.50	0.27	0.23	0.006
			#158.0125	0.14	Back Center	0.08	0.07	0.002	1.27	1.07	2.07	0.11	0.08	0.005
					Back Side	0.14	0.12	0.002	1.02	1.03	1.53	0.14	0.12	0.003
			#165.0125	0.08	Back Center	0.03	0.02	0.001	1.34	1.14	2.14	0.03	0.02	0.003
					Back Side	0.09	0.06	0.002	1.04	1.07	1.56	0.09	0.07	0.003
			#173.0125	0.04	Back Center	0.15	0.09	0.003	1.41	1.21	2.21	0.21	0.11	0.006
					Back Side	0.24	0.13	0.007	1.06	1.10	1.59	0.26	0.15	0.010
	HAD4006A, 1/4 Wave (136-144MHz)	53.8	140.0000	0.19	Back Center	0.26	0.19	0.006	1.17	1.00	1.86	0.30	0.19	0.010
					Back Side	0.27	0.18	0.007	1.00	1.00	1.49	0.27	0.18	0.011
			144.0000	0.15	Back Center	0.16	0.13	0.006	1.18	1.00	1.91	0.19	0.13	0.011
					Back Side	0.27	0.23	0.006	1.00	1.00	1.49	0.27	0.23	0.008
	HAD4007A, 1/4 Wave (144-150.8MHz)	50.8	144.0000	0.15	Back Center	0.16	0.13	0.006	1.18	1.00	1.91	0.19	0.13	0.011
					Back Side	0.27	0.23	0.006	1.00	1.00	1.49	0.27	0.23	0.008
			#150.8000	0.18	Back Center	0.12	0.11	0.003	1.21	1.01	2.01	0.15	0.11	0.006
					Back Side	0.27	0.23	0.004	1.00	1.00	1.50	0.27	0.23	0.006

Note: # Same SAR simulation configuration as FCC US.

Table 2b continued (configurations exceed ISED MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	47.3	#150.8000	0.17	Back Center	0.12	0.11	0.003	1.21	1.01	2.01	0.15	0.11	0.006
					Back Side	0.27	0.23	0.004	1.00	1.00	1.50	0.27	0.23	0.006
			#156.4000	0.17	Back Center	0.12	0.10	0.003	1.26	1.06	2.06	0.15	0.11	0.005
					Back Side	0.17	0.14	0.002	1.02	1.03	1.53	0.18	0.14	0.004
			#162.0000	0.18	Back Center	0.03	0.02	0.001	1.31	1.11	2.11	0.04	0.02	0.003
					Back Side	0.11	0.09	0.002	1.03	1.05	1.55	0.11	0.10	0.003
	HAD4009A, 1/4 Wave (162-174MHz)	44.8	#162.0000	0.16	Back Center	0.03	0.02	0.001	1.31	1.11	2.11	0.04	0.02	0.003
					Back Side	0.11	0.09	0.002	1.03	1.05	1.55	0.11	0.10	0.003
			#165.0125	0.14	Back Center	0.02	0.01	0.001	1.34	1.14	2.14	0.03	0.02	0.003
					Back Side	0.09	0.06	0.002	1.04	1.07	1.56	0.09	0.07	0.003
			#173.0125	0.09	Back Center	0.15	0.09	0.003	1.41	1.21	2.21	0.21	0.11	0.006
					Back Side	0.25	0.14	0.007	1.06	1.10	1.59	0.26	0.15	0.010
	HAE6010A, 1/2 Wave (380-433MHz)	65.3	#406.5000	0.06	Back Center	0.15	0.09	0.004	3.51	3.39	4.31	0.52	0.30	0.018
					Back Side	0.23	0.18	0.004	1.68	2.11	2.53	0.38	0.38	0.011
			#419.5000	0.03	Back Center	0.30	0.17	0.004	3.63	3.52	4.43	1.09	0.59	0.019
					Back Side	0.14	0.11	0.005	1.72	2.17	2.58	0.25	0.23	0.013
	HAE6011A, 5/8 Wave (380-433MHz)	92.8	#406.5000	0.01	Back Center	0.09	0.05	0.002	3.51	3.39	4.31	0.32	0.19	0.009
					Back Side	0.12	0.10	0.003	1.68	2.11	2.53	0.21	0.20	0.007
			#419.5000	0.01	Back Center	0.13	0.07	0.002	3.63	3.52	4.43	0.46	0.24	0.011
					Back Side	0.06	0.04	0.003	1.72	2.17	2.58	0.11	0.09	0.008

Note: # Same SAR simulation configuration as FCC US.

Table 2b continued (configurations exceed ISED MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	HAE6012A, 1/4 Wave (380-433MHz)	20.0	#406.5000	0.05	Back Center	0.13	0.09	0.004	3.51	3.39	4.31	0.46	0.29	0.017
					Back Side	0.26	0.19	0.005	1.68	2.11	2.53	0.43	0.41	0.012
			#419.5000	0.02	Back Center	0.25	0.13	0.004	3.63	3.52	4.43	0.89	0.47	0.016
					Back Side	0.11	0.08	0.005	1.72	2.17	2.58	0.19	0.18	0.012
	HAE6013A, 1/2 Wave (380-470MHz)	30.8	#406.5000	0.05	Back Center	0.13	0.10	0.004	3.51	3.39	4.31	0.46	0.32	0.019
					Back Side	0.29	0.21	0.005	1.68	2.11	2.53	0.49	0.44	0.012
			#422.0125	0.02	Back Center	0.23	0.13	0.004	3.65	3.54	4.45	0.83	0.45	0.019
					Back Side	0.11	0.06	0.004	1.73	2.18	2.59	0.19	0.14	0.011
			#450.0125	0.04	Back Center	0.14	0.08	0.003	3.90	3.80	4.70	0.55	0.29	0.016
					Back Side	0.11	0.06	0.003	1.80	2.30	2.70	0.19	0.15	0.007
			#460.0000	0.02	Back Center	0.19	0.10	0.003	3.86	3.75	4.64	0.72	0.37	0.012
					Back Side	0.07	0.04	0.002	1.80	2.28	2.69	0.13	0.10	0.007
			#469.9875	0.05	Back Center	0.12	0.08	0.002	3.83	3.71	4.59	0.46	0.28	0.011
					Back Side	0.07	0.06	0.003	1.81	2.25	2.68	0.13	0.12	0.008

Note: # Same SAR simulation configuration as FCC US.

Table 2b continued (configurations exceed ISED MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	HAE6031A, 1/2 Wave (380-520MHz)	29.8	#406.5000	0.06	Back Center	0.13	0.09	0.004	3.51	3.39	4.31	0.45	0.32	0.019
					Back Side	0.29	0.21	0.005	1.68	2.11	2.53	0.48	0.44	0.012
			#422.0125	0.03	Back Center	0.22	0.12	0.004	3.65	3.54	4.45	0.81	0.44	0.018
					Back Side	0.11	0.06	0.004	1.73	2.18	2.59	0.19	0.14	0.011
			#450.0125	0.05	Back Center	0.14	0.08	0.003	3.90	3.80	4.70	0.54	0.29	0.015
					Back Side	0.11	0.06	0.003	1.80	2.30	2.70	0.19	0.14	0.007
			#469.9875	0.05	Back Center	0.12	0.07	0.002	3.83	3.71	4.59	0.45	0.28	0.011
					Back Side	0.07	0.05	0.003	1.81	2.25	2.68	0.13	0.12	0.008
	RAE4014ARB, 5/8 Wave (445-470MHz)	94.5	#450.0125	0.01	Back Center	0.03	0.02	0.001	3.90	3.80	4.70	0.11	0.07	0.004
					Back Side	0.03	0.02	0.001	1.80	2.30	2.70	0.05	0.04	0.002
		92.3	#460.0000	0.004	Back Center	0.02	0.01	0.001	3.86	3.75	4.64	0.07	0.05	0.003
					Back Side	0.03	0.02	0.001	1.80	2.28	2.69	0.06	0.05	0.003
		90.8	#469.9875	0.01	Back Center	0.05	0.03	0.001	3.83	3.71	4.59	0.19	0.11	0.004
					Back Side	0.04	0.02	0.001	1.81	2.25	2.68	0.07	0.05	0.004
	HAE6015A, 1/2 Wave (450-520MHz)	28.0	#450.0125	0.05	Back Center	0.14	0.07	0.003	3.90	3.80	4.70	0.53	0.28	0.015
					Back Side	0.10	0.06	0.003	1.80	2.30	2.70	0.19	0.14	0.007
			#460.0000	0.04	Back Center	0.18	0.09	0.002	3.86	3.75	4.64	0.68	0.35	0.011
					Back Side	0.07	0.04	0.002	1.80	2.28	2.69	0.13	0.10	0.006
			#469.9875	0.04	Back Center	0.11	0.07	0.002	3.83	3.71	4.59	0.44	0.27	0.010
					Back Side	0.07	0.05	0.003	1.81	2.25	2.68	0.12	0.12	0.008

Note: # Same SAR simulation configuration as FCC US.

Table 2b continued (configurations exceed ISED MPE limits):
 Results of the Computations and Adjusted SAR for passenger exposure of
 Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	HAE4011A, 1/2 Wave (450-470MHz)	75	#450.0125	0.01	Back Center	0.05	0.03	0.001	3.90	3.80	4.70	0.18	0.10	0.005
					Back Side	0.05	0.03	0.001	1.80	2.30	2.70	0.08	0.06	0.003
			#460.0000	0.01	Back Center	0.05	0.03	0.001	3.86	3.75	4.64	0.21	0.12	0.004
					Back Side	0.04	0.03	0.001	1.80	2.28	2.69	0.07	0.06	0.002
			#469.9875	0.01	Back Center	0.06	0.03	0.001	3.83	3.71	4.59	0.22	0.12	0.004
					Back Side	0.02	0.02	0.001	1.81	2.25	2.68	0.04	0.04	0.003
	HAE4003A, 1/4 Wave (450-470MHz)	17.8	#450.0125	0.04	Back Center	0.12	0.06	0.003	3.90	3.80	4.70	0.46	0.24	0.014
					Back Side	0.10	0.06	0.002	1.80	2.30	2.70	0.17	0.13	0.007
			#460.0000	0.03	Back Center	0.15	0.08	0.002	3.86	3.75	4.64	0.57	0.30	0.010
					Back Side	0.07	0.04	0.002	1.80	2.28	2.69	0.13	0.09	0.006
			#469.9875	0.03	Back Center	0.10	0.06	0.002	3.83	3.71	4.59	0.37	0.23	0.009
					Back Side	0.06	0.04	0.003	1.81	2.25	2.68	0.11	0.10	0.007
	HAE6016A, 1/4 Wave (450-512MHz)	10.1	#450.0125	0.04	Back Center	0.11	0.06	0.003	3.90	3.80	4.70	0.45	0.24	0.013
					Back Side	0.09	0.06	0.002	1.80	2.30	2.70	0.17	0.13	0.006
			#460.0000	0.04	Back Center	0.14	0.07	0.002	3.86	3.75	4.64	0.53	0.28	0.009
					Back Side	0.07	0.04	0.002	1.80	2.28	2.69	0.13	0.09	0.005
			#469.9875	0.04	Back Center	0.09	0.06	0.002	3.83	3.71	4.59	0.36	0.22	0.009
					Back Side	0.06	0.04	0.002	1.81	2.25	2.68	0.11	0.10	0.007

Note: # Same SAR simulation configuration as FCC US.

Table 2b continued (configurations exceed ISSED MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	HAF4013A, 1/4 Wave (764-870MHz)	7.9	#770.0125	0.02	Back Center	0.03	0.02	0.001	2.71	2.34	2.87	0.08	0.05	0.002
					Back Side	0.03	0.02	0.001	1.89	1.57	2.33	0.07	0.03	0.002
			#775.9125	0.02	Back Center	0.04	0.02	0.001	2.69	2.31	2.84	0.10	0.06	0.002
					Back Side	0.03	0.02	0.001	1.89	1.56	2.33	0.05	0.02	0.002
			#806.0125	0.02	Back Center	0.03	0.02	0.001	2.69	2.28	2.79	0.07	0.04	0.002
					Back Side	0.04	0.02	0.001	1.92	1.55	2.32	0.08	0.03	0.003
			#823.9875	0.03	Back Center	0.02	0.01	0.001	2.96	2.51	3.06	0.05	0.03	0.003
					Back Side	0.02	0.02	0.001	1.97	1.69	2.40	0.04	0.03	0.002
			#851.0125	0.02	Back Center	0.02	0.01	0.001	3.37	2.86	3.47	0.06	0.04	0.003
					Back Side	0.04	0.02	0.001	2.05	1.91	2.50	0.07	0.04	0.002
			#862.0125	0.01	Back Center	0.02	0.02	0.001	3.53	3.01	3.63	0.07	0.05	0.003
					Back Side	0.03	0.02	0.001	2.09	2.00	2.55	0.05	0.04	0.002
			#868.8875	0.01	Back Center	0.03	0.02	0.001	3.63	3.10	3.73	0.12	0.07	0.003
					Back Side	0.03	0.02	0.001	2.11	2.05	2.58	0.06	0.04	0.002
	HAF4014A, 1/4 Wave (764-870MHz)	59.5	#770.0125	0.02	Back Center	0.01	0.005	0.0002	2.71	2.34	2.87	0.02	0.01	0.001
					Back Side	0.01	0.004	0.0002	1.89	1.57	2.33	0.01	0.01	0.000
			#775.9125	0.02	Back Center	0.01	0.01	0.0003	2.69	2.31	2.84	0.03	0.02	0.001
					Back Side	0.01	0.01	0.0003	1.89	1.56	2.33	0.01	0.01	0.001
			#806.0125	0.02	Back Center	0.02	0.01	0.001	2.69	2.28	2.79	0.05	0.03	0.002
					Back Side	0.03	0.02	0.001	1.92	1.55	2.32	0.05	0.03	0.002
			#823.9875	0.02	Back Center	0.02	0.01	0.001	2.96	2.51	3.06	0.05	0.03	0.002
					Back Side	0.01	0.01	0.001	1.97	1.69	2.40	0.03	0.02	0.001
			#851.0125	0.02	Back Center	0.02	0.01	0.001	3.37	2.86	3.47	0.06	0.04	0.002
					Back Side	0.03	0.02	0.001	2.05	1.91	2.50	0.06	0.03	0.002
			#862.0125	0.02	Back Center	0.02	0.01	0.001	3.53	3.01	3.63	0.07	0.04	0.003
					Back Side	0.03	0.02	0.001	2.09	2.00	2.55	0.07	0.04	0.002
			#868.8875	0.01	Back Center	0.03	0.02	0.001	3.63	3.10	3.73	0.11	0.06	0.003
					Back Side	0.03	0.02	0.001	2.11	2.05	2.58	0.05	0.03	0.002

Note: # Same SAR simulation configuration as FCC US.

Table 2b continued (configurations exceed ISED MPE limits):
Results of the Computations and Adjusted SAR for passenger exposure of
Companion mobile radio (50% talk-time)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm ²)	Exposure Location	Computations SAR (W/kg)			Interpolated Adjustment Factors			Adjusted SAR Results (W/kg)		
						1 g	10 g	WB	1 g	10 g	WB	1 g	10 g	WB
Roof	HAF4016A, 1/4 Wave (764-870MHz)	10.8	#770.0125	0.02	Back Center	0.03	0.02	0.001	2.71	2.34	2.87	0.09	0.05	0.002
					Back Side	0.03	0.02	0.001	1.89	1.57	2.33	0.06	0.03	0.002
			#775.9125	0.02	Back Center	0.04	0.03	0.001	2.69	2.31	2.84	0.10	0.06	0.002
					Back Side	0.03	0.02	0.001	1.89	1.56	2.33	0.05	0.03	0.002
			#806.0125	0.02	Back Center	0.03	0.02	0.001	2.69	2.28	2.79	0.08	0.04	0.003
					Back Side	0.03	0.03	0.001	1.92	1.55	2.32	0.07	0.04	0.003
			#823.9875	0.02	Back Center	0.02	0.01	0.001	2.96	2.51	3.06	0.06	0.03	0.003
					Back Side	0.02	0.02	0.001	1.97	1.69	2.40	0.05	0.03	0.002
			#851.0125	0.01	Back Center	0.02	0.02	0.001	3.37	2.86	3.47	0.07	0.04	0.003
					Back Side	0.04	0.02	0.001	2.05	1.91	2.50	0.08	0.04	0.002
			#862.0125	0.02	Back Center	0.02	0.02	0.001	3.53	3.01	3.63	0.07	0.05	0.003
					Back Side	0.03	0.02	0.001	2.09	2.00	2.55	0.05	0.04	0.003
			#868.8875	0.01	Back Center	0.04	0.02	0.001	3.63	3.10	3.73	0.13	0.08	0.003
					Back Side	0.03	0.02	0.001	2.11	2.05	2.58	0.07	0.04	0.002
	HAF4017A, 1/4 Wave (764-870MHz)	36.3	#770.0125	0.04	Back Center	0.06	0.04	0.002	2.71	2.34	2.87	0.16	0.10	0.005
					Back Side	0.06	0.03	0.002	1.89	1.57	2.33	0.11	0.05	0.004
			#775.9125	0.05	Back Center	0.07	0.05	0.002	2.69	2.31	2.84	0.20	0.12	0.005
					Back Side	0.06	0.03	0.002	1.89	1.56	2.33	0.10	0.05	0.004
			#806.0125	0.06	Back Center	0.05	0.03	0.002	2.69	2.28	2.79	0.14	0.08	0.004
					Back Side	0.07	0.05	0.002	1.92	1.55	2.32	0.14	0.07	0.005
			#823.9875	0.03	Back Center	0.04	0.03	0.002	2.96	2.51	3.06	0.12	0.07	0.005
					Back Side	0.04	0.02	0.002	1.97	1.69	2.40	0.08	0.04	0.004
			#851.0125	0.02	Back Center	0.03	0.02	0.001	3.37	2.86	3.47	0.11	0.07	0.004
					Back Side	0.05	0.03	0.001	2.05	1.91	2.50	0.10	0.06	0.003
			#862.0125	0.01	Back Center	0.03	0.03	0.001	3.53	3.01	3.63	0.11	0.08	0.005
					Back Side	0.04	0.03	0.001	2.09	2.00	2.55	0.09	0.06	0.003
			868.8875	0.01	Back Center	0.06	0.04	0.001	3.63	3.10	3.73	0.21	0.11	0.005
					Back Side	0.04	0.03	0.001	2.11	2.05	2.58	0.09	0.06	0.003

Note: # Same SAR simulation configuration as FCC US.

The SAR distribution in the exposure condition that gave highest adjusted 1-g SAR for DVR VHF is reported in Figure 3. (167.7000 MHz, passenger on the side of the back seat, HAD4009A antenna).

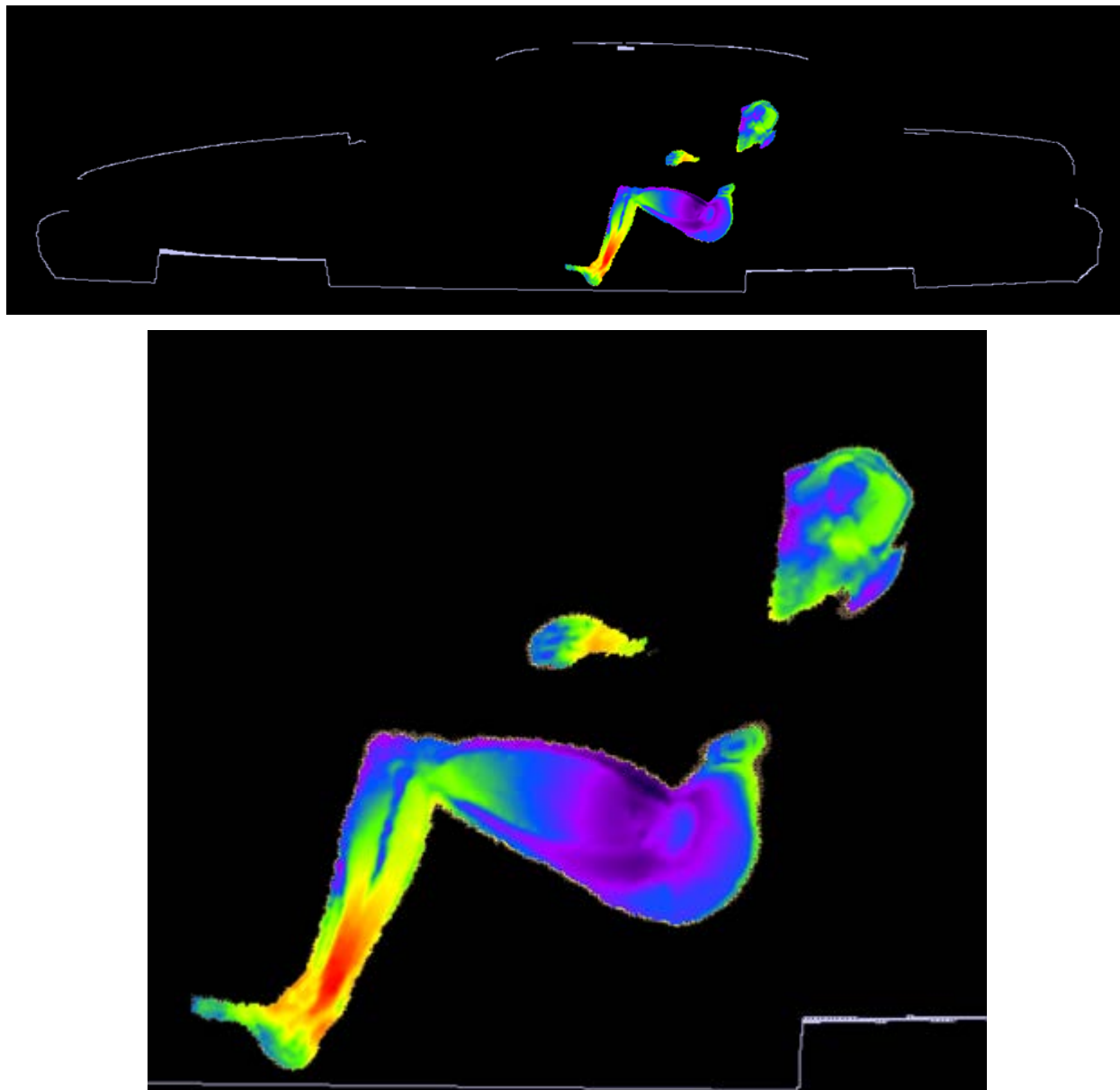
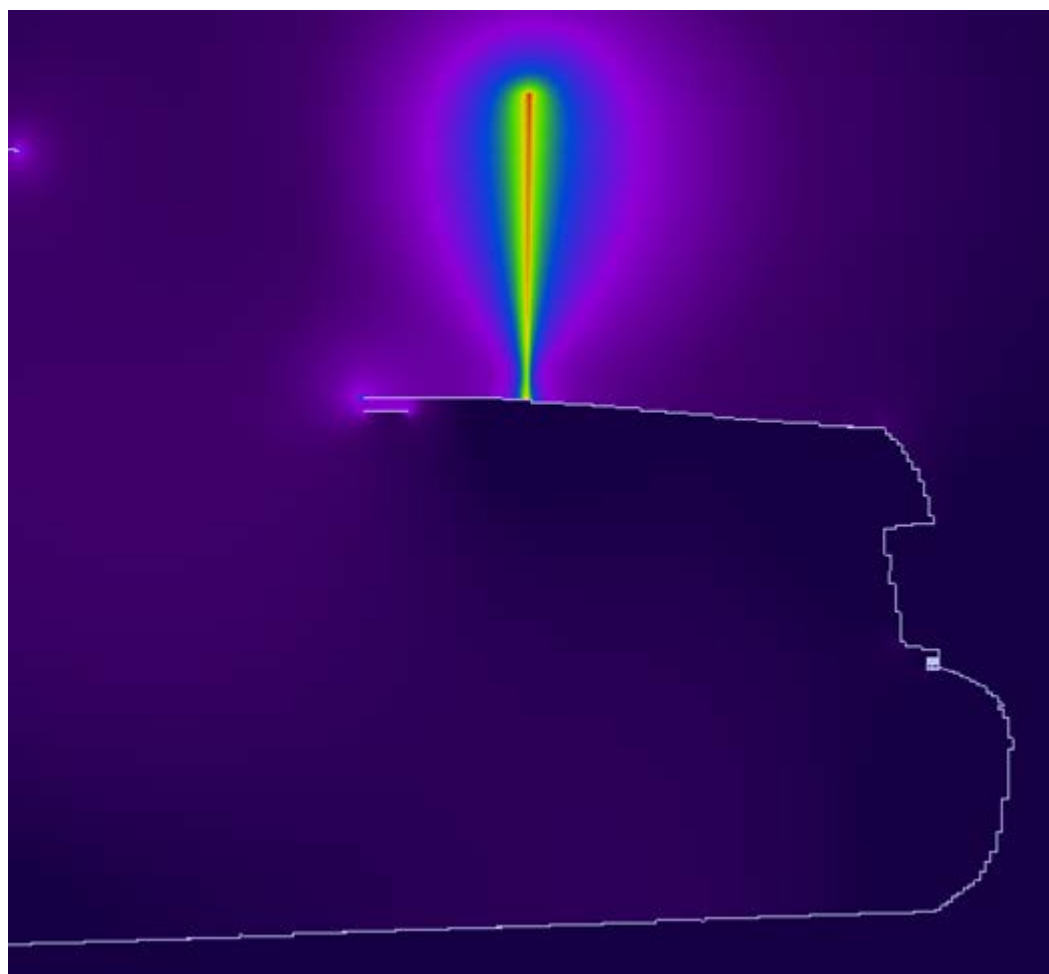
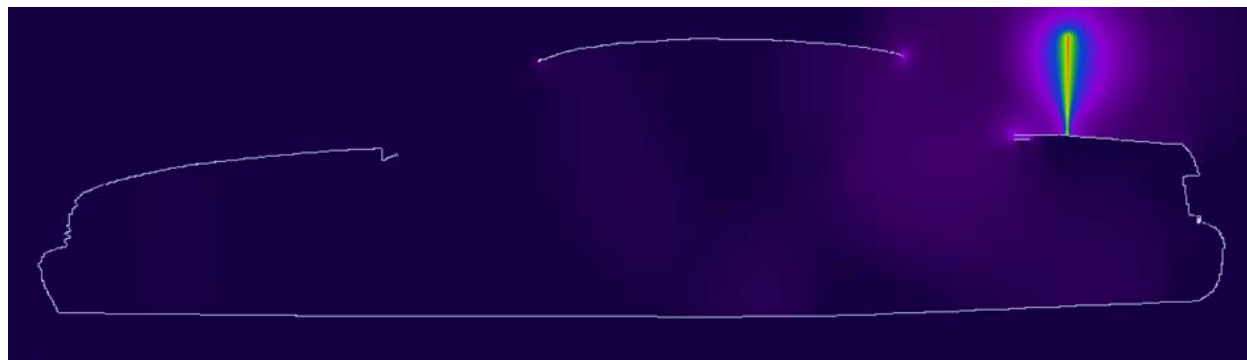
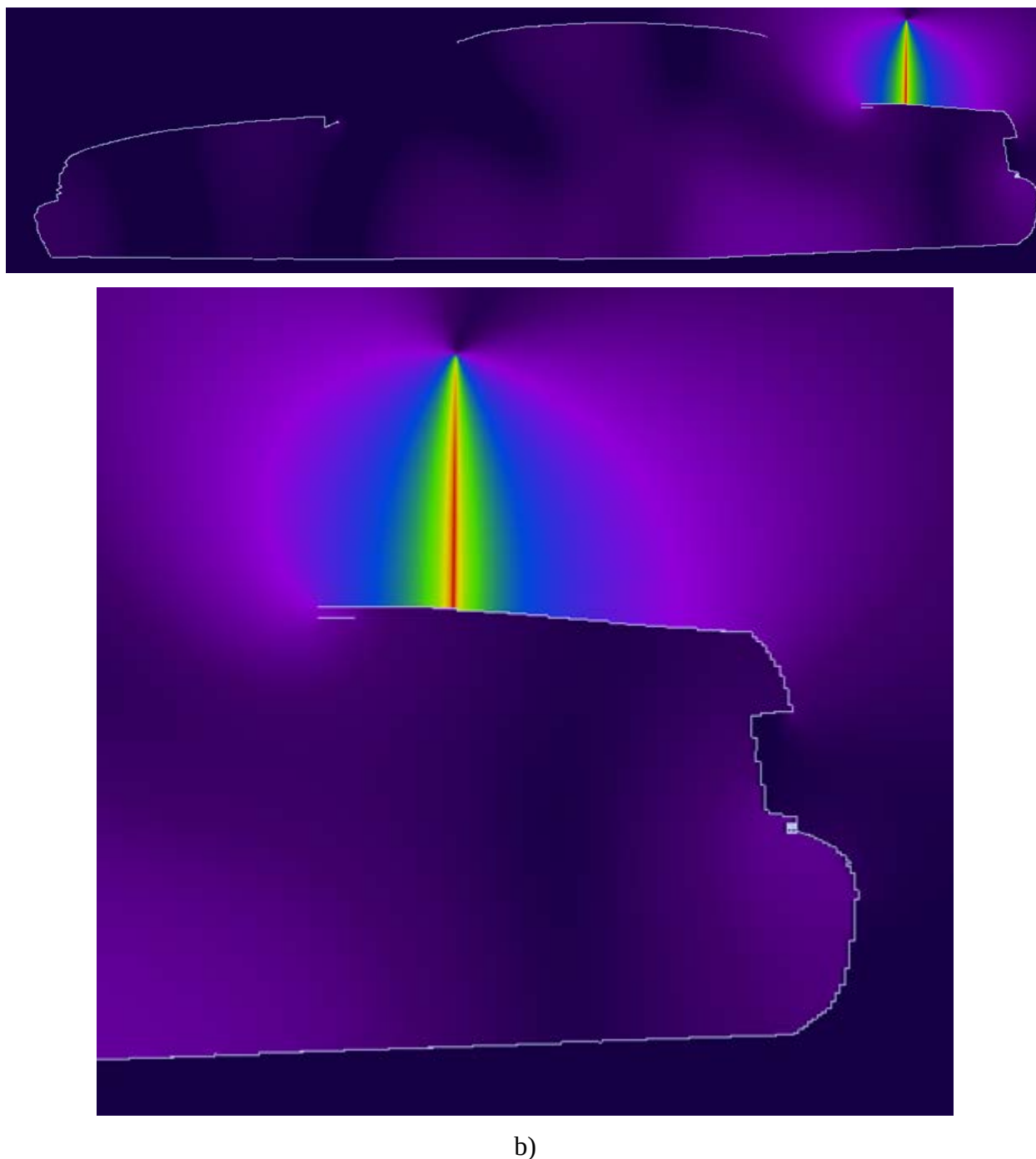


Figure 3. SAR distribution at 167.7000 MHz in the passenger model located on the side of the back seat, produced by the trunk-mount HAD4009A antenna. The contour plot is relative to the plane where the peak 1-g average SAR for this exposure condition occurs.

The two pictures below in Figure 4. show the E and H field distributions in the plane of the antenna corresponding to the condition in Figure 3.



a)



b)

Figure 4. (a) E-field magnitude distribution corresponding to exposure condition of Figure 3, and (b) H-field magnitude distribution corresponding to exposure condition of Figure 3.

The highest adjusted 1-g SAR was produced in the passenger exposure condition with HAD4009A antenna at 167.7000 MHz (passenger on the side of the back seat).

The SAR distribution in the exposure condition that gave highest adjusted 1-g SAR for Companion mobile radio is reported in Figure 5. 419.5000 MHz, passenger on the center of the back seat, HAE6010A antenna).

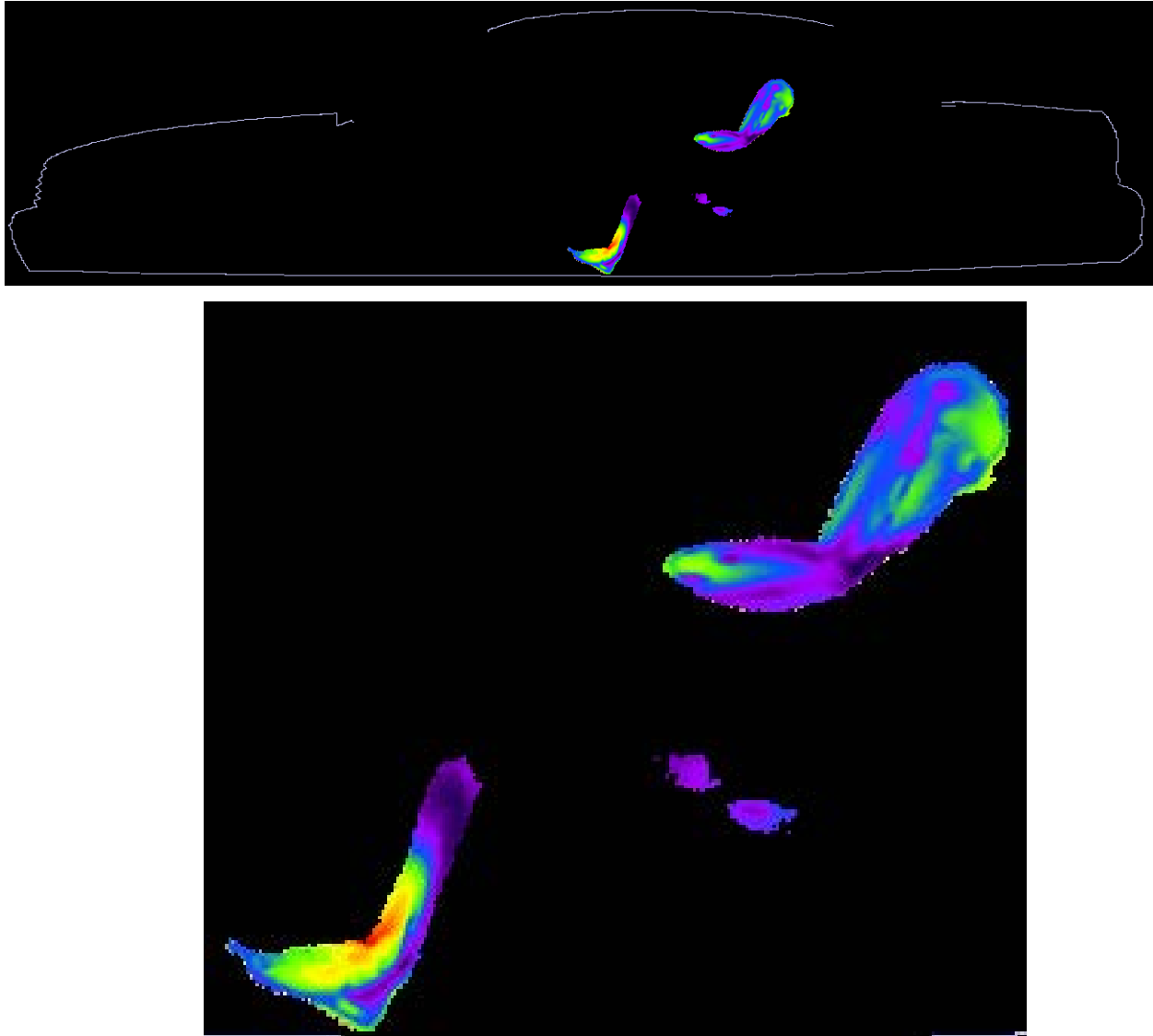
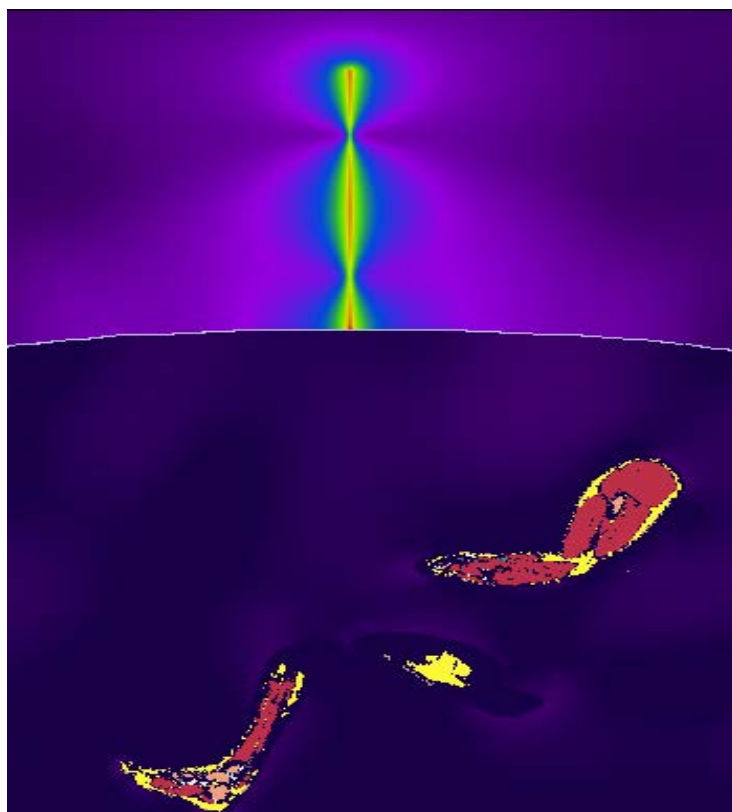
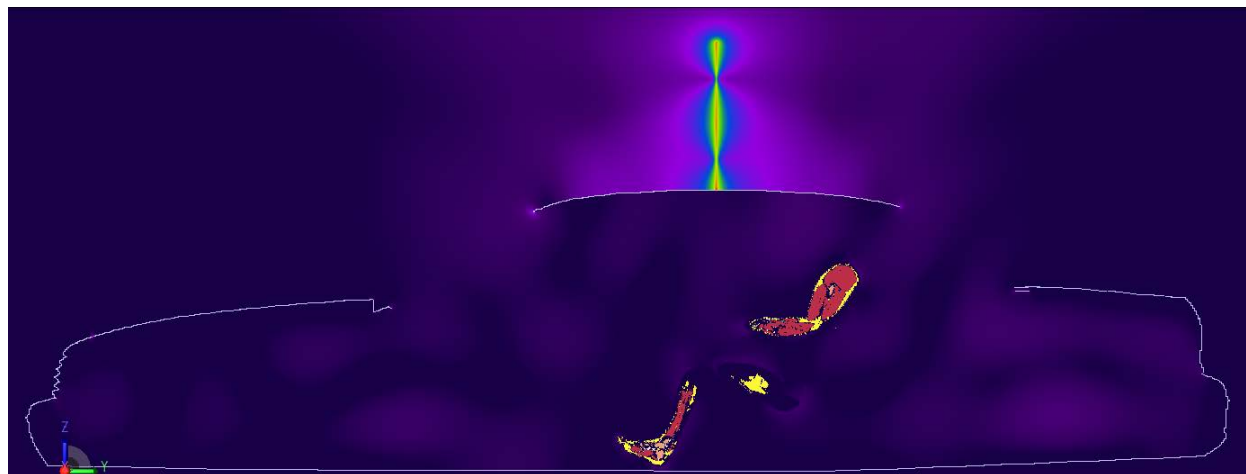
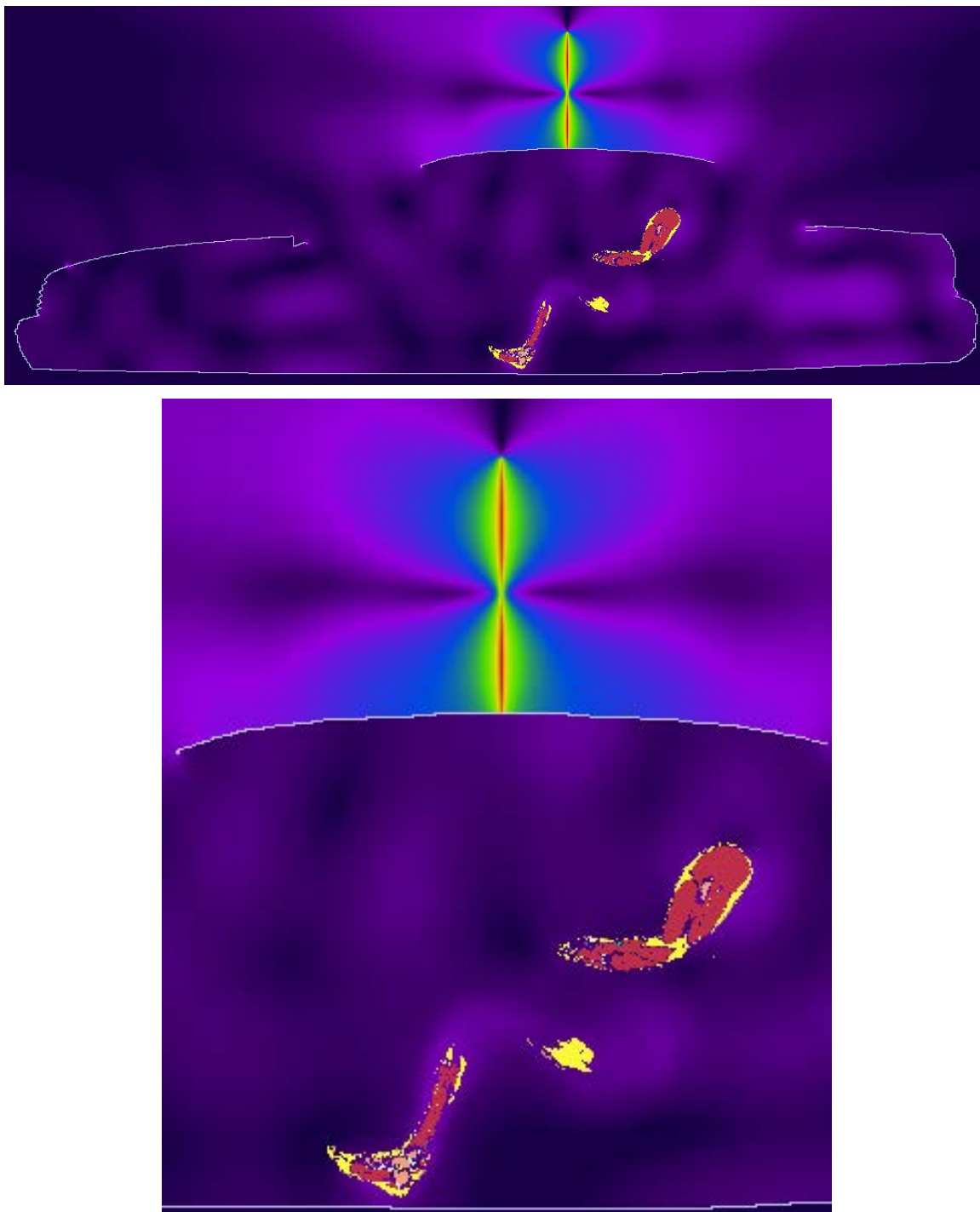


Figure 5. SAR distribution at 419.5000 MHz in the passenger model located on the center of the back seat, produced by the roof-mount HAE6010A antenna. The contour plot is relative to the plane where the peak 1-g average SAR for this exposure condition occurs.

The pictures below in Figure 6 show the E and H field distributions in the plane of the antenna corresponding to the condition in Figure 5.



a)



b)

Figure 6. (a) E-field magnitude distribution corresponding to exposure condition of Figure 5, and (b) H-field magnitude distribution corresponding to exposure condition of Figure 5.

The highest adjusted 1-g SAR was produced in the passenger exposure condition with HAE6010A antenna at 419.5000 MHz (passenger on the center of the back seat).

Results of SAR computations for combined exposure

From all simulated results the worst case peak SAR values were identified for both DVR VHF and Companion mobile radio exposure and then combined to produce the composite peak SAR value in corresponding locations of the human body model. Table 3 and Table 4 present the worst case composite peak SAR value.

Table 3: Worst case peak 1-g average SAR for passenger exposure conditions and composite 1-g average SAR from simultaneous exposure.

	Passenger location	DVR VHF [W/kg]	Companion mobile radio	Total [W/kg]
FCC US	Back Center	0.34	1.09	1.43
	Back Side	0.70	0.49	1.19
ISED Canada	Back Center	0.34	1.09	1.43
	Back Side	0.70	0.49	1.19

Table 4: Worst case peak whole body average SAR for passenger exposure conditions and composite whole body average SAR from simultaneous exposure.

	Passenger location	DVR VHF [W/kg]	Companion mobile radio	Total [W/kg]
FCC US	Back Center	0.019	0.021	0.040
	Back Side	0.02	0.013	0.033
ISED Canada	Back Center	0.019	0.019	0.038
	Back Side	0.02	0.013	0.033

From Table 3 and Table 4 the maximum combined peak 1-g SAR is 1.43 W/kg, less than the 1.6 W/kg limit, while the maximum combined whole-body average SAR is 0.040 W/kg, less than the 0.08 W/kg limit.

The overall maximum combined peak 10-g SAR is 1.10 W/kg, less than the 2.0 W/kg limit.

Conclusions

Under the test conditions described for evaluating passenger exposure to the RF electromagnetic fields emitted by vehicle-mounted antennas used in conjunction with these mobile radio products, the present analysis shows that the computed SAR values are compliant with the FCC US and ISED Canada exposure limits for the general public as well as with the corresponding ICNIRP and IEEE Std. C95.1-2005 SAR limits.

References

- [1] IEEE Standard C95.1-1999. *IEEE Standard for Safety Levels with Respect to Human Exposure to RF Electromagnetic Fields, 3 kHz to 300 GHz.*
- [2] http://www.nlm.nih.gov/research/visible/visible_human.html
- [3] ICNIRP (International Commission on Non-Ionising Radiation Protection). 1998. *Guidelines for limiting exposure to time-varying electric, magnetic and electromagnetic fields (up to 300 GHz).* Health Phys. 74:494–522.
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- [5] Simon, W., Bit-Babik, G., “Effect of the variation in population on the whole-body average 1379 SAR of persons exposed to vehicle mounted antennas W. Simon”, ICEAA September 2-7, 2012, Cape 1380 Town.