

 <b>MOTOROLA</b>	 <b>ACCREDITED</b> Certificate Number: 1449-01
<b>FCC ID: AZ492FT5850</b> <b>DECLARATION OF COMPLIANCE MPE ASSESSMENT</b>	
<b>Government &amp; Enterprise Mobility Solutions</b> EME Test Laboratory 8000 West Sunrise Blvd Fort Lauderdale, FL. 33322	<b>Date of Report:</b> February 24, 2006 <b>Report Revision:</b> Rev. O <b>Report ID:</b> FCC MPE rpt_HPDP1000 7/800 Rev O_060224_SR3393
<p><b>Responsible Engineer:</b> Stephen Whalen (SR Staff EME Eng.)  <b>Date/s Tested:</b> 2/18/2006  <b>Manufacturer/Location:</b> Motorola / Plantation  <b>Date submitted for test:</b> 01/13/2006  <b>DUT Description:</b> High Performance Data in 25 kHz Channel in 7/800MHz, APCO 764-806MHz 33W, 806-870MHz 38.5W mode, HPD 794-824MHz nominal 10W pulse average.</p> <p><b>Test TX mode(s):</b> APCO mode CW, HPD mode 70% duty cycle  <b>Max. Power output:</b> APCO 764-806MHz 36W, 806-870MHz 42W, 50% Duty Cycle                  HPD 794-824MHz maximum 12W pulse average, 70% Duty Cycle  <b>TX Frequency Bands:</b> APCO 764-776MHz, 794-824MHz, 851-870MHz                  HPD 794-824MHz  <b>Signaling type:</b> FM, APCO 25, HPD (SAM 25)  <b>Model(s) Tested:</b> M26UGA9PW1AN  <b>Model(s) Certified:</b> M26UGA9PW1AN  <b>Serial Number(s):</b> P7F5  <b>Classification:</b> Occupational Controlled (Operator); General Population/Uncontrolled (Passengers/Bystanders)  <b>Rule Part(s):</b> 2.1091 (d)</p> <p><b>Approved Accessories:</b>  <b>Antenna(s):</b>                  HAF4016A (764-870MHz ¼ wave roof mount antenna; 0dBd gain), HAF4014A (764-870MHz ¼ wave roof mount antenna; 3.0dBd gain)                  HAF4013A (764-870MHz ¼ wave roof mount antenna; 3.0dBd gain), HAF4017A (764-870MHz ¼ wave roof mount antenna; 3.0dBd gain)                  RRA4914B (806-900MHz ¼ wave roof mount antenna; 3.0dBd gain), HAF4002A (806-900MHz ¼ wave roof mount antenna; 0.0dBd gain)</p>	
<p><b>Final RF Exposure Results:</b>  <b>Max Calculated Power Density: 0.14mW/cm<sup>2</sup></b></p>	
<p>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 3.0 of this report. This report shall not be reproduced without written approval from an officially designated representative of the Motorola EME Laboratory.</p>	
<p><b>Signature on file</b>                  Ken Enger GEMS EME Lab Senior Resource Manager,                  Laboratory Director,    <b>Approval Date: 2/24/2006</b></p>	<p><b>Certification Date: L1060289</b>    <b>Certification No.: 2/24/2006</b></p>

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**REVISION HISTORY**

Date	Revision	Comments
02/24/06	O	Original release

## 1.0 Product and System Description

FCC ID: AZ492FT5850, model M26UGA9PW1AN is a High Performance Data (HPD) transceiver that utilizes two data modes in the 7/800MHz band. The APCO 25 mode is continuous carrier frequency modulation (C4FM) and HPD or SAM25 mode operates with adjustable 4, 16 and 64QAM. Both the APCO and HPD modes use channel spacing of 12.5 and 25kHz and supports data transmission rates of 32 kbps, 64 kbps or 96 kbps in Half/ simplex and Full Duplex operation. There is no voice operation. The maximum duty cycle is 50% for APCO which is based on simplex hand-shaking operation between the user and base station. The maximum duty cycle is 70% for HPD which is controlled by the software. Two antennas are used, one for transmit and one for receive with the device properly installed in a vehicle trunk. The transmit antenna is to be mounted on the center of the roof with the receive antenna at a specified distance from the transmit antenna and typically installed on the trunk.

The APCO mode transmits in 764-776MHz and 794-806MHz at 33W nominal power and 806-824MHz and 851-870MHz at 38.5W nominal power. The HPD transmits in 794-824MHz at nominal 10 Watts pulse average power.

This device will be marketed to and used by employees solely for work-related operations, such as public safety agencies, e.g. police, fire and emergency medical. User training is the responsibility of these agencies which can be expected to employ the usage instructions, safety information and operational cautions set forth in the user's manual, instructional sessions or other means.

Accordingly this product is classified as Occupational/Controlled Exposure. However, In accordance with FCC requirements, the passengers inside the vehicle and the bystanders external to the vehicle are evaluated to the General Population/Uncontrolled Exposure Limits.

(Note that "By-standers" as used herein mean people other than operator)

## 2.0 Additional Options and Accessories:

NA

## 3.0 Measurement and Limit Standards

Measurements were performed according to the recommended guidelines in IEEE/ANSI C95.3-2002 and compared to FCC Limits Per 47 CFR 2.1091 (d) for General Population/Uncontrolled RF Exposure.

For test frequencies ranging from 764-870MHz the MPE (Maximum Permissible Exposure) limit to electromagnetic energy in equivalent plane wave free-space power density is  $0.51 - 0.58 \text{mW/cm}^2$  and calculated using the formula  $f/1500$ .

**4.0 Data Collection Consideration**

Power density testing was performed with DUT installed in a 1991 Ford Taurus (4-door). Measurement data was taken with the vehicle running at idle and the vehicle battery measuring 14.0 volts.

**5.0 Measurement System Uncertainty Levels**

The information below presents an estimate of the possible errors that are associated with the measurement system.

Uncertainty Budget for Near Field Probe Measurements

	Tol. (± %)	Prob. Dist.	Divisor	$u_i$ (±%)
<b>Measurement System</b>				
Survey Meter Calibration	3.0	N	1.00	3.0
Repeatability Accuracy	7.0	N	1.00	7.0
<b>Combined Standard Uncertainty</b>		RSS		7.6
<b>Expanded Uncertainty</b>		$k=2$		15

**6.0 Method of Measurement**

**6.1 EME measurements made with roof mounted antenna(s)**

(For reference, see Illustration of antenna location and test distances in appendix A).

**6.1.1 External vehicle EME measurement**

(Antenna mounted at roof center)

MPE measurements for by-stander conditions are determined by taking the average of (10) measurements in a 2m vertical line for each of the (5) test positions indicated in appendix A with 20cm increments at the test distances (APCO 60cm and HPD 30cm) from the transmit antenna. The measurement probe sensor is rotated 180° at each of the ten incremental measurements to ensure the highest result is captured. These measurements are representative of persons other than the operator standing next to the vehicle.

**Note: Actual test distance was 110cm (60cm from antenna to roof edge; 30cm from roof edge to edge of car door; 20cm vertical test line to car door); this is the closest distance that can be achieved to an antenna mounted to the center of the vehicle used for MPE compliance assessment.**

**6.1.2 Internal vehicle EME measurement**  
 (Antenna mounted at roof center)

While rotating survey meter probe through 180 degrees to ensure that the highest level is found, scans were performed inside of the vehicle, both at the front and back seating areas, across the TX band to ascertain the highest level in each location. After the highest level is found, two (2) additional measurements were performed vertically within an area approximately 40cm wide (representing the width of a person) so as to have a total of three (3) measured points as indicated below that are averaged.

- a) Head area
- b) Chest area
- c) Lower Trunk area

**7.0 Test Site**

The test site is the Motorola open area test site located at 8000 W. Sunrise Blvd., Plantation, FL. 33322.

**8.0 Measurement System/Equipment**

Equipment Type	Model #	SN	Calibration Due Date
Automobile	1991 Ford Taurus, 4-Door		
Survey Meter	NARDA Model 8718	01108	5/17/06
Probe - E-Field (Electric Field)	NARDA Model 8722B	12023	2/25/06

**9.0 Test Unit Description**

Power density measurements were performed on M26UGA9PW1AN with serial number P7F5. The tested frequencies and associated power outputs are presented below.

APCO

Frequency (MHz)	Po (W)
764.0875	35.5
770.0000	35.6
775.9125	35.6
794.0875	35.8
809.0000	41.3
823.9875	41.8
851.0125	41.9
860.5000	41.8
869.9875	41.9

HPD

Frequency (MHz)	Po (W)
794.0875	11.6
809.0000	11.2
823.9875	11.7

## 10.0 Test Set-Up Description

The following are the mobile antenna test configurations used for this product.  
(for reference, see Illustration of antenna location and test distances in the appendix A)

a) The ¼ wave 0dBd gain antennas (HAF4016A and HAF4002A) and ¼ wave 3.0dBd gain antennas (HAF4014A, HAF4013A, HAF4017A and RRA4914B) were assessed while mounted at the center of the roof of the test vehicle.

Assessments were made internal and external to the test vehicle at the specified distances and test locations indicated in sections 6.0, 11.0, and appendix A.

## 11.0 Test Results Summary

Appendix D presents detailed MPE measurement information for each test configuration; person external or internal to the vehicle, TX frequency, antenna (location, model and gain), distance from antenna to probe sensor, E field measurements, calibration factor, MPE average over body, initial power, power density calc, power density max calc, IEEE/FCC controlled and uncontrolled limits, and maximum output power.

The Average over Body test methodology is consistent with IEEE/ANSI C95.3-2002 guidelines.

APCO mode was tested in CW and final MPE results include 50% duty cycle while the HPD mode was tested in its native 70% duty cycle.

External to vehicle - 10 measurements are averaged over the body (*Body\_Avg*).

Internal to vehicle - 3 measurements are averaged over the body (*Body\_Avg*).

Narda Survey Meter measures in percent of the controlled limit. Therefore the averages over the body used in the calculations below reflect percentages.

Therefore;

$$\text{Average\_over\_Body} = \text{Body\_Avg} * \text{Controlled\_Limit}$$

$$\text{Pwr\_Density\_Calc} = \text{Average\_over\_Body} * \text{Duty\_Cycle}$$

$$\text{Pwr\_Density\_Max\_Calc} = \text{Pwr\_Density\_Calc} * \frac{\text{Max\_Output\_Power}}{\text{Initial\_Output\_Power}}$$

Note; For  $\text{Initial Output Power} > \text{Max Output Power}$ ,  $\text{Max Output Power} / \text{Initial Output Power} = 1$

Tables 1 & 2 below summarize the MPE results of the E field test configurations for the M26UGA9PW1AN mobile radio. See appendices A and D respectively for test positions and detailed MPE measurement data.

**Table 1 - APCO Data**

Tables	Antenna Model	Antenna Location	Test Frequency (MHz)	E/H Field	Passenger / By-stander	Max Calc Pwr Density (mW/cm <sup>2</sup> )	% of Uncontrolled Limit
<b>Roof</b>							
1	HAF4016A	Roof	764.0875	E	By-stander	0.10	19.6
2	HAF4016A	Roof	764.0875	E	Passenger	0.04	7.8
3	HAF4016A	Roof	770.0000	E	By-stander	0.09	17.5
4	HAF4016A	Roof	770.0000	E	Passenger	0.04	7.7
5	HAF4016A	Roof	775.9125	E	By-stander	0.10	19.3
6	HAF4016A	Roof	775.9125	E	Passenger	0.04	7.7
7	HAF4016A	Roof	794.0875	E	By-stander	0.09	17.0
8	HAF4016A	Roof	794.0875	E	Passenger	0.03	5.7
9	HAF4016A	Roof	809.0000	E	By-stander	0.11	20.4
10	HAF4016A	Roof	809.0000	E	Passenger	0.04	7.4
11	HAF4016A	Roof	823.9875	E	By-stander	0.09	16.4
12	HAF4016A	Roof	823.9875	E	Passenger	0.04	7.3
13	HAF4016A	Roof	851.0125	E	By-stander	0.09	15.9
14	HAF4016A	Roof	851.0125	E	Passenger	0.02	3.5
15	HAF4016A	Roof	860.5000	E	By-stander	0.08	13.9
16	HAF4016A	Roof	860.5000	E	Passenger	0.02	3.5
17	HAF4016A	Roof	869.9875	E	By-stander	0.09	15.5
18	HAF4016A	Roof	869.9875	E	Passenger	0.02	3.4
19	HAF4014A	Roof	764.0875	E	By-stander	0.12	23.6
20	HAF4014A	Roof	764.0875	E	By-stander	0.06	11.8
21	HAF4014A	Roof	770.0000	E	By-stander	0.11	21.4
22	HAF4014A	Roof	770.0000	E	Passenger	0.07	13.6
23	HAF4014A	Roof	775.9125	E	By-stander	0.12	23.2
24	HAF4014A	Roof	775.9125	E	Passenger	0.08	15.5
25	HAF4014A	Roof	794.0875	E	By-stander	0.12	22.7
26	HAF4014A	Roof	794.0875	E	Passenger	0.05	9.4
27	HAF4014A	Roof	809.0000	E	By-stander	0.14	26.0
28	HAF4014A	Roof	809.0000	E	Passenger	0.07	13.0
29	HAF4014A	Roof	823.9875	E	By-stander	0.12	21.8
30	HAF4014A	Roof	823.9875	E	Passenger	0.06	10.9

**Table 1 Continued- APCO Data**

Tables	Antenna Model	Antenna Location	Test Frequency (MHz)	E/H Field	Passenger / By-stander	Max Calc Pwr Density (mW/cm <sup>2</sup> )	% of Uncontrolled Limit
<b>Roof</b>							
31	HAF4014A	Roof	851.0125	E	By-stander	0.10	17.6
32	HAF4014A	Roof	851.0125	E	Passenger	0.02	3.5
33	HAF4014A	Roof	860.5000	E	By-stander	0.09	15.7
34	HAF4014A	Roof	860.5000	E	Passenger	0.02	3.5
35	HAF4014A	Roof	869.9875	E	By-stander	0.08	13.8
36	HAF4014A	Roof	869.9875	E	Passenger	0.03	5.2
37	HAF4013A	Roof	764.0875	E	By-stander	0.08	15.7
38	HAF4013A	Roof	764.0875	E	Passenger	0.03	5.9
39	HAF4013A	Roof	770.0000	E	By-stander	0.09	17.5
40	HAF4013A	Roof	770.0000	E	Passenger	0.04	7.8
41	HAF4013A	Roof	775.9125	E	By-stander	0.08	15.5
42	HAF4013A	Roof	775.9125	E	Passenger	0.04	7.7
43	HAF4013A	Roof	794.0875	E	By-stander	0.08	15.1
44	HAF4013A	Roof	794.0875	E	Passenger	0.04	7.6
45	HAF4013A	Roof	809.0000	E	By-stander	0.10	18.5
46	HAF4013A	Roof	809.0000	E	Passenger	0.04	7.4
47	HAF4013A	Roof	823.9875	E	By-stander	0.09	16.4
48	HAF4013A	Roof	823.9875	E	Passenger	0.03	5.5
49	HAF4013A	Roof	851.0125	E	By-stander	0.08	14.1
50	HAF4013A	Roof	851.0125	E	Passenger	0.03	5.3
51	HAF4013A	Roof	860.5000	E	By-stander	0.08	13.9
52	HAF4013A	Roof	860.5000	E	Passenger	0.02	3.5
53	HAF4013A	Roof	869.9875	E	By-stander	0.09	15.5
54	HAF4013A	Roof	869.9875	E	Passenger	0.02	3.4
55	HAF4017A	Roof	764.0875	E	By-stander	0.06	11.8
56	HAF4017A	Roof	764.0875	E	Passenger	0.01	2.0
57	HAF4017A	Roof	770.0000	E	By-stander	0.06	11.7
58	HAF4017A	Roof	770.0000	E	Passenger	0.01	1.9
59	HAF4017A	Roof	775.9125	E	By-stander	0.05	9.7
60	HAF4017A	Roof	775.9125	E	Passenger	0.01	1.9
61	HAF4017A	Roof	794.0875	E	By-stander	0.07	13.2
62	HAF4017A	Roof	794.0875	E	Passenger	0.01	1.9
63	HAF4017A	Roof	809.0000	E	By-stander	0.09	16.7
64	HAF4017A	Roof	809.0000	E	Passenger	0.02	3.7

**Table 1 Continued- APCO Data**

Tables	Antenna Model	Antenna Location	Test Frequency (MHz)	E/H Field	Passenger / By-stander	Max Calc Pwr Density (mW/cm <sup>2</sup> )	% of Uncontrolled Limit
<b>Roof</b>							
65	HAF4017A	Roof	823.9875	E	By-stander	0.10	18.2
66	HAF4017A	Roof	823.9875	E	Passenger	0.03	5.5
67	HAF4017A	Roof	851.0125	E	By-stander	0.09	15.9
68	HAF4017A	Roof	851.0125	E	Passenger	0.02	3.5
69	HAF4017A	Roof	860.5000	E	By-stander	0.09	15.7
70	HAF4017A	Roof	860.5000	E	Passenger	0.02	3.5
71	HAF4017A	Roof	869.9875	E	By-stander	0.09	15.5
72	HAF4017A	Roof	869.9875	E	Passenger	0.02	3.4
73	RRA4914B	Roof	809.0000	E	By-stander	0.11	20.4
74	RRA4914B	Roof	809.0000	E	Passenger	0.05	9.3
75	RRA4914B	Roof	823.9875	E	By-stander	0.09	16.4
76	RRA4914B	Roof	823.9875	E	Passenger	0.06	10.9
77	RRA4914B	Roof	851.0125	E	By-stander	0.11	19.4
78	RRA4914B	Roof	851.0125	E	Passenger	0.02	3.5
79	RRA4914B	Roof	860.5000	E	By-stander	0.10	17.4
80	RRA4914B	Roof	860.5000	E	Passenger	0.02	3.5
81	RRA4914B	Roof	869.9875	E	By-stander	0.10	17.2
82	RRA4914B	Roof	869.9875	E	Passenger	0.01	1.7
83	HAF4002A	Roof	809.0000	E	By-stander	0.08	14.8
84	HAF4002A	Roof	809.0000	E	Passenger	0.04	7.4
85	HAF4002A	Roof	823.9875	E	By-stander	0.08	14.6
86	HAF4002A	Roof	823.9875	E	Passenger	0.03	5.5
87	HAF4002A	Roof	851.0125	E	By-stander	0.08	14.1
88	HAF4002A	Roof	851.0125	E	Passenger	0.02	3.5
89	HAF4002A	Roof	860.5000	E	By-stander	0.07	12.2
90	HAF4002A	Roof	860.5000	E	Passenger	0.01	1.7
91	HAF4002A	Roof	869.9875	E	By-stander	0.07	12.1
92	HAF4002A	Roof	869.9875	E	Passenger	0.01	1.7

**Table 2 - HPD Data**

Tables	Antenna Model	Antenna Location	Test Frequency (MHz)	E/H Field	Passenger / By-stander	Max Calc Pwr Density (mW/cm <sup>2</sup> )	% of Uncontrolled Limit
<b>Roof</b>							
93	HAF4016A	Roof	794.0875	E	By-stander	0.05	9.4
94	HAF4016A	Roof	794.0875	E	Passenger	0.01	1.9
95	HAF4016A	Roof	809.0000	E	By-stander	0.04	7.4
96	HAF4016A	Roof	809.0000	E	Passenger	0.02	3.7
97	HAF4016A	Roof	823.9875	E	By-stander	0.03	5.5
98	HAF4016A	Roof	823.9875	E	Passenger	0.02	3.6
99	HAF4014A	Roof	794.0875	E	By-stander	0.06	11.3
100	HAF4014A	Roof	794.0875	E	Passenger	0.03	5.7
101	HAF4014A	Roof	809.0000	E	By-stander	0.05	9.3
102	HAF4014A	Roof	809.0000	E	Passenger	0.03	5.6
103	HAF4014A	Roof	823.9875	E	By-stander	0.05	9.1
104	HAF4014A	Roof	823.9875	E	Passenger	0.02	3.6
105	HAF4013A	Roof	794.0875	E	By-stander	0.04	7.6
106	HAF4013A	Roof	794.0875	E	Passenger	0.02	3.8
107	HAF4013A	Roof	809.0000	E	By-stander	0.05	9.3
108	HAF4013A	Roof	809.0000	E	Passenger	0.02	3.7
109	HAF4013A	Roof	823.9875	E	By-stander	0.05	9.1
110	HAF4013A	Roof	823.9875	E	Passenger	0.02	3.6
111	HAF4017A	Roof	794.0875	E	By-stander	0.04	7.6
112	HAF4017A	Roof	794.0875	E	Passenger	0.01	1.9
113	HAF4017A	Roof	809.0000	E	By-stander	0.05	9.3
114	HAF4017A	Roof	809.0000	E	Passenger	0.01	1.9
115	HAF4017A	Roof	823.9875	E	By-stander	0.05	9.1
116	HAF4017A	Roof	823.9875	E	Passenger	0.01	1.8
117	RRA4914B	Roof	809.0000	E	By-stander	0.06	11.1
118	RRA4914B	Roof	809.0000	E	Passenger	0.02	3.7
119	RRA4914B	Roof	823.9875	E	By-stander	0.04	7.3
120	RRA4914B	Roof	823.9875	E	Passenger	0.02	3.6
121	HAF4002A	Roof	809.0000	E	By-stander	0.05	9.3
122	HAF4002A	Roof	809.0000	E	Passenger	0.02	3.7
123	HAF4002A	Roof	823.9875	E	By-stander	0.04	7.3
124	HAF4002A	Roof	823.9875	E	Passenger	0.02	3.6

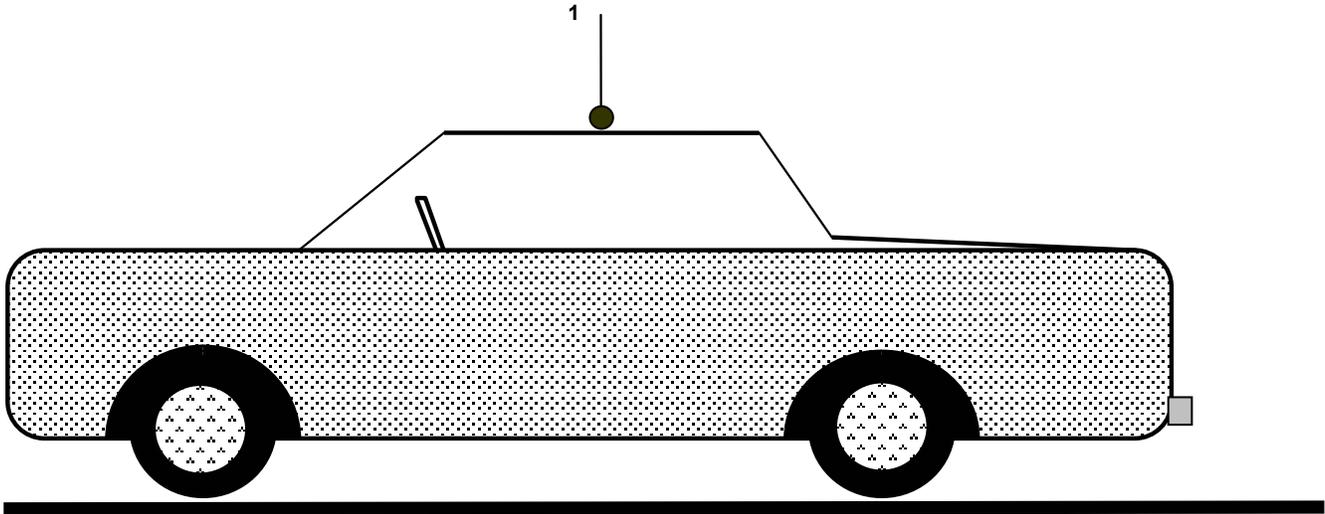
## 12.0 Conclusion

Depending on the test frequency, the M26UGA9PW1AN mobile assessments were performed with an output power range of 35.5W – 41.9W (APCO) and 11.2-12.0W pulse average (HPD). The highest power density results for the M26UGA9PW1AN mobile device scaled to the maximum allowable power output is 0.08mW/cm<sup>2</sup> internal to the vehicle and 0.14mW/cm<sup>2</sup> external to the vehicle as compared to 0.51-0.58mW/cm<sup>2</sup> limits.

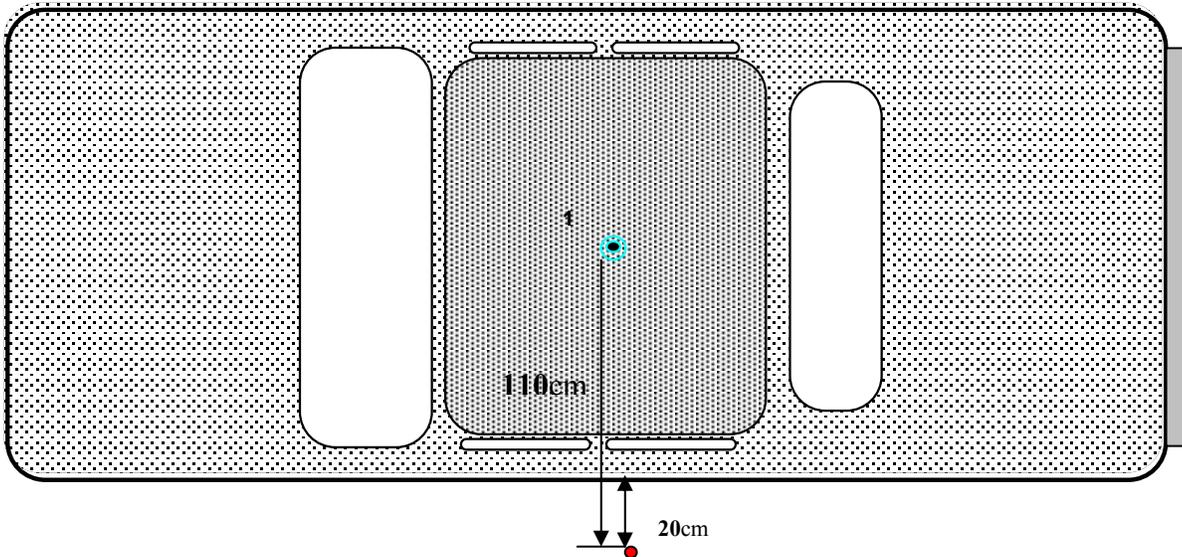
These MPE results demonstrate compliance to the FCC General Population/Uncontrolled Exposure limits.

**APPENDIX A**

**Illustration of Antenna Locations and Test Distance**



1 – Roof (center)  
Transmit antenna



Note: ● Test Location  
(By-stander)

**APPENDIX B**

**Meter/Probe Calibration Certificates**



# Certificate of Calibration

L-3 Communications, Narda Microwave-East, hereby certifies that the referenced RF Radiation Hazard monitoring equipment has been calibrated in accordance with MIL-STD-45662A, ANSI Z540, ISO 10012 and ISO 9001: 2000.

The measured values were determined by comparison with our standards, which are traceable to the National Institute of Standards and Technology to the extent allowed by NIST's calibration facilities.

Customer: MOTOROLA Certificate #: 56219 1  
 SCHAUMBURG, IL 60168-0429  
 Model #: 8718-10 Serial #: 01108  
 Description: METER W/CABLE PO #: NP1819669  
 Date Calibrated: 05/17/2005 R.O. #: 56219

*Vince Donovan*  
 Vince Donovan  
 Manager of Instruments Assembly and Test

*John C. Stine*  
 John C. Stine  
 Director of Quality Assurance

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PRNRA002

# Certificate of Calibration

L-3 Communications, Narda Microwave-East, hereby certifies that the referenced RF Radiation Hazard monitoring equipment has been calibrated in accordance with MIL-STD-45662A, ANSI Z540, ISO 10012 and ISO 9001:2000.

The measured values were determined by comparison with our standards, which are traceable to the National Institute of Standards and Technology to the extent allowed by NIST's calibration facilities.

Customer: **MOTOROLA**  
**SCHAUMBURG, IL 60168-0429**

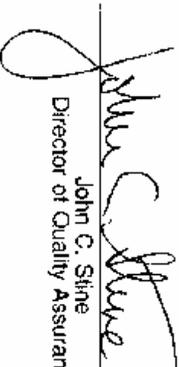
Certificate #: 53821 2

Model #: **8722B**  
Description: **RAID MONITOR**      **8722B**  
Date Calibrated: **02-25-2005**

Serial #: **12023**  
PO #: **NP1675705**  
R.O. #: **53821**

  
Vince Donovan  
Manager of Instruments Assembly and Test



  
John C. Stine  
Director of Quality Assurance

This certificate shall not be reproduced, except in full, without written approval from L-3 Communications, Narda Microwave-East



DATE 25-Feb-2005  
REL HUMIDITY 45%

RELEASE # R53821  
TEMP 20 DEG. C

NARDA MICROWAVE - EAST

MODEL # 8722B  
SERIAL # 12023

Recal Probe - Date of Previous Probe Data = 11/05/2003

FREQ MHZ	PRE-CAL DATA	FINAL CAL DATA	ELLIPSE RATIO, dB	FINAL CORR. FACTOR	DEVIATION DELTA DB	PREVIOUS FINAL CORR.
.30	1.03	0.98	+/- 0.32	1.02	+0.19	1.02
3.00	1.14	1.09	+/- 0.33	0.92	-0.18	0.85
10.00	0.87	0.84	+/- 0.25	1.20	-0.05	1.14
30.00	0.75	0.72	+/- 0.12	1.39	-0.01	1.33
100.00	1.34	1.29	+/- 0.20	0.78	+0.03	0.75
300.00	1.05	1.00	+/- 0.27	1.00	-0.06	0.94
750.00	1.38	1.32	+/- 0.24	0.76	+0.55	0.83
1000.00	1.45	1.39	+/- 0.20	0.72	+0.48	0.77
1700.00	1.20	1.15	+/- 0.46	0.87	+0.38	0.91
2450.00	1.52	1.42	+/- 0.46	0.70	+0.76	0.78
4000.00	1.08	1.00	+/- 0.34	1.00	+0.03	0.94
8200.00	1.14	1.06	+/- 0.50	0.94	-0.10	0.86
10000.00	1.10	1.02	+/- 0.50	0.98	-0.33	0.85
18000.00	1.13	1.05	+/- 0.68	0.95	-0.36	0.82
26500.00	1.02	0.95	+/- 0.86	1.05	-0.31	0.91
40000.00	0.76	0.70	+/- 0.79	1.42	-0.16	1.28

LOW FREQUENCY MULTIPLIER = 0.961      HIGH FREQUENCY MULTIPLIER = 0.933

FREQ. DEV. (3-40000 MHZ) = 3.039 DB

FREQ. DEV. (0.3-40000 MHZ) = 3.04 DB

MAX. ELLIPSE RATIO (0.3-40000 MHZ) = +/- 0.86 DB

PRE-CAL DATA REFLECTS THE MEAN ELLIPSE RATIO OF PROBE AS RECEIVED BY NARDA CALIBRATION DEPARTMENT, OR IS THE INITIAL, UN-ADJUSTED RATIO.

(PRE-CAL x OLD CORR. FACTOR) - 1 = DEVIATION FROM PREVIOUS (OLD)

CALIBRATION DATA. NOTE: NOT APPLICABLE FOR NEW PROBES.

FINAL CAL DATA IS THE RATIO OF THE DISPLAYED TO THE APPLIED FIELD STRENGTH.

FINAL CORR. FACTOR IS THE RECIPROCAL OF FINAL CAL DATA.

FINAL CORR. FACTOR MULTIPLIED BY THE DISPLAYED FIELD STRENGTH READING

GIVES THE ACTUAL ("CORRECTED") FIELD STRENGTH.

ELLIPSE RATIO IS EXPRESSED IN DB DEVIATION FROM THE MEAN DATA

RMS Uncertainty = +/- 0.5db.    ATP # = 502120 REV J

TESTER V. M.      Q.A. APPROVAL \_\_\_\_\_

**APPENDIX C**

**Photos of Assessed Antennas**



**Antenna kit numbers, from left to right;  
HAF4016A, HAF4002A, HAF4013A, HAF4017A, HAF4014A and RRA4914B**

**APPENDIX D**

**Detailed MPE Measurement Data**

**APCO**

**Table 1**

External Vehicle MPE Assessment @ 764.0875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4016A	2.15	60	E	0.76	0.204	35.50	0.102	0.10
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Control	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit	
1	20	0.1%		6	120	8.8%	2.55	0.51	
2	40	0.1%		7	140	10.6%			
3	60	0.5%		8	160	20.1%			
4	80	1.4%		9	180	22.2%			
5	100	2.3%		10	200	13.9%			

**Table 2**

Internal Vehicle MPE Assessment @ 764.0875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4016A	2.15	Highest Reading	E	0.76	0.070	0.038	35.50	0.035	0.04
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		IEEE Uncontrolled Limit:		
Back Seat		3.6%	1.9%	2.7%		2.55		0.51		
Front Seat		2.6%	0.9%	1.0%				<b>RF Po (*Max):</b>	36.0	

**Table 3**

External Vehicle MPE Assessment @ 770.000 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4016A	2.15	60	E	0.76	0.175	35.60	0.087	0.09
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Control	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit	
1	20	0.3%		6	120	4.2%	2.57	0.51	
2	40	0.2%		7	140	10.5%			
3	60	0.4%		8	160	19.8%			
4	80	1.3%		9	180	16.2%			
5	100	2.0%		10	200	13.2%			

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**Table 4**

Internal Vehicle MPE Assessment @ 770.000 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4016A	2.15	Highest Reading	E	0.76	0.083	0.038	35.60	0.041	0.04
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.57		
Back Seat		2.6%	2.8%	4.3%		IEEE Uncontrolled Limit:		0.51		
Front Seat		1.7%	1.6%	1.1%				<b>RF Po (*Max):</b>	36.0	

**Table 5**

External Vehicle MPE Assessment @ 775.9125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4016A	2.15	60	E	0.76	0.199	35.60	0.100	0.10
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.4%		6	120	4.3%		2.59	0.52
2	40	0.2%		7	140	11.8%			
3	60	0.4%		8	160	23.1%			
4	80	1.6%		9	180	19.3%			
5	100	2.3%		10	200	13.7%			

**Table 6**

Internal Vehicle MPE Assessment @ 775.9125 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4016A	2.15	Highest Reading	E	0.76	0.072	0.051	35.60	0.036	0.04
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.59		
Back Seat		2.2%	3.9%	2.3%		IEEE Uncontrolled Limit:		0.52		
Front Seat		2.1%	1.9%	1.9%				<b>RF Po (*Max):</b>	36.0	

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**Table 7**

External Vehicle MPE Assessment @ 794.0875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4016A	2.15	60	E	0.75	0.177	35.80	0.089	0.09
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	0.3%	6	120	3.8%	2.65		0.53	
2	40	0.2%	7	140	11.9%				
3	60	0.6%	8	160	18.4%				
4	80	1.8%	9	180	17.0%				
5	100	1.6%	10	200	11.4%				
								<b>RF Po (*Max)</b>	
								36.0	

**Table 8**

Internal Vehicle MPE Assessment @ 794.0875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4016A	2.15	Highest Reading	E	0.75	0.064	0.034	35.80	0.032	0.03
Measurement Grid										
Test Position		% of Control Limit Head		% of Control Limit Chest		% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.65
Back Seat		2.6%		2.4%		2.2%		IEEE Uncontrolled Limit:		0.53
Front Seat		1.7%		1.3%		0.9%		<b>RF Po (*Max):</b>		36.0

**Table 9**

External Vehicle MPE Assessment @ 809.000 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4016A	2.15	60	E	0.75	0.219	41.30	0.110	0.11
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	0.3%	6	120	5.8%	2.70		0.54	
2	40	0.2%	7	140	15.7%				
3	60	0.8%	8	160	21.7%				
4	80	1.6%	9	180	20.1%				
5	100	1.4%	10	200	13.7%				
								<b>RF Po (*Max)</b>	
								42.0	

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**Table 10**

Internal Vehicle MPE Assessment @ 809.000 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4016A	2.15	Highest Reading	E	0.75	0.069	0.052	41.30	0.035	0.04
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		IEEE Uncontrolled Limit:		
Back Seat		2.9%	2.5%	2.3%				2.70		
Front Seat		1.4%	1.8%	2.6%				<b>RF Po (*Max):</b>		42.0

**Table 11**

External Vehicle MPE Assessment @ 823.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4016A	2.15	60	E	0.75	0.176	41.80	0.088	0.09
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit		
1	20	0.2%	6	120	5.7%	2.75	0.55		
2	40	0.3%	7	140	10.3%	<b>RF Po (*Max):</b>			
3	60	0.9%	8	160	14.0%				
4	80	1.5%	9	180	16.7%				
5	100	1.8%	10	200	12.5%				

**Table 12**

Internal Vehicle MPE Assessment @ 823.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4016A	2.15	Highest Reading	E	0.75	0.077	0.040	41.80	0.038	0.04
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		IEEE Uncontrolled Limit:		
Back Seat		2.5%	3.6%	2.3%				2.75		
Front Seat		1.6%	1.4%	1.4%				<b>RF Po (*Max):</b>		42.0

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Table 13

External Vehicle MPE Assessment @ 851.0125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4016A	2.15	60	E	0.74	0.179	41.90	0.089	0.09
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit		
1	20	0.2%	6	120	6.3%	2.84	0.57		
2	40	0.3%	7	140	9.1%				
3	60	0.8%	8	160	14.9%				
4	80	1.0%	9	180	16.3%				
5	100	2.1%	10	200	12.0%				
								<b>RF Po (*Max)</b>	

Table 14

Internal Vehicle MPE Assessment @ 851.0125 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4016A	2.15	Highest Reading	E	0.74	0.035	0.027	41.90	0.017	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		IEEE Uncontrolled Limit:		
Back Seat		1.0%	1.0%	1.7%				2.84		
Front Seat		0.8%	1.0%	1.1%				0.57		
							<b>RF Po (*Max):</b>		42.0	

Table 15

External Vehicle MPE Assessment @ 860.5 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4016A	2.15	60	E	0.74	0.166	41.80	0.083	0.08
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit		
1	20	0.2%	6	120	4.3%	2.87	0.57		
2	40	0.4%	7	140	8.5%				
3	60	0.8%	8	160	13.4%				
4	80	1.5%	9	180	16.3%				
5	100	1.6%	10	200	10.9%				
								<b>RF Po (*Max)</b>	

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**Table 16**

Internal Vehicle MPE Assessment @ 860.5 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4016A	2.15	Highest Reading	E	0.74	0.035	0.021	41.80	0.018	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:			2.87	
Back Seat		0.9%	0.8%	2.0%		IEEE Uncontrolled Limit:			0.57	
Front Seat		0.5%	1.1%	0.6%		<b>RF Po (*Max):</b>			42.0	

**Table 17**

External Vehicle MPE Assessment @ 869.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4016A	2.15	60	E	0.74	0.183	41.90	0.092	0.09
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit	
1	20	0.2%	6	120	4.8%		2.90	0.58	
2	40	0.6%	7	140	8.9%				
3	60	1.1%	8	160	14.1%				
4	80	1.0%	9	180	17.9%				
5	100	2.1%	10	200	12.5%				
							<b>RF Po (*Max):</b>		42.0

**Table 18**

Internal Vehicle MPE Assessment @ 869.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4016A	2.15	Highest Reading	E	0.74	0.043	0.029	41.90	0.022	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:			2.90	
Back Seat		2.0%	1.6%	0.9%		IEEE Uncontrolled Limit:			0.58	
Front Seat		0.9%	1.0%	1.1%		<b>RF Po (*Max):</b>			42.0	

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**Table 19**

External Vehicle MPE Assessment @ 764.0875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4014A	5.15	60	E	0.76	0.240	35.50	0.120	0.12
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	1.1%	6	120	10.6%	2.55		0.51	
2	40	0.7%	7	140	20.1%				
3	60	1.3%	8	160	30.6%				
4	80	3.1%	9	180	18.4%				
5	100	5.0%	10	200	3.5%				
								36.0	

**Table 20**

Internal Vehicle MPE Assessment @ 764.0875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4014A	5.15	Highest Reading	E	0.76	0.115	0.076	35.50	0.058	0.06
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk	IEEE Controlled Limit:		IEEE Uncontrolled Limit:			
Back Seat		3.7%	3.6%	6.3%	2.55		0.51			
Front Seat		3.0%	2.7%	3.3%			<b>RF Po (*Max):</b>		36.0	

**Table 21**

External Vehicle MPE Assessment @ 770.000 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4014A	5.15	60	E	0.76	0.214	35.60	0.107	0.11
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	0.8%	6	120	7.7%	2.57		0.51	
2	40	0.7%	7	140	20.0%				
3	60	1.1%	8	160	29.7%				
4	80	2.7%	9	180	14.2%				
5	100	3.8%	10	200	2.6%				
								36.0	

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**Table 22**

Internal Vehicle MPE Assessment @ 770.000 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4014A	5.15	Highest Reading	E	0.76	0.137	0.049	35.60	0.068	0.07
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk			IEEE Controlled Limit:	2.57		
Back Seat		4.4%	5.5%	6.1%			IEEE Uncontrolled Limit:	0.51		
Front Seat		1.3%	2.3%	2.1%				<b>RF Po (*Max):</b>	36.0	

**Table 23**

External Vehicle MPE Assessment @ 775.9125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4014A	5.15	60	E	0.76	0.233	35.60	0.116	0.12
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit	
1	20	1.2%	6	120	6.4%		2.59	0.52	
2	40	0.6%	7	140	21.0%		<b>RF Po (*Max)</b>		
3	60	1.1%	8	160	33.3%				
4	80	3.6%	9	180	15.4%				
5	100	4.3%	10	200	3.0%				

**Table 24**

Internal Vehicle MPE Assessment @ 775.9125 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4014A	5.15	Highest Reading	E	0.76	0.155	0.060	35.60	0.078	0.08
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk			IEEE Controlled Limit:	2.59		
Back Seat		5.6%	7.7%	4.7%			IEEE Uncontrolled Limit:	0.52		
Front Seat		3.0%	2.2%	1.8%				<b>RF Po (*Max):</b>	36.0	

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**Table 25**

External Vehicle MPE Assessment @ 794.0875 MHz										
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )	
Roof (cnt)	HAF4014A	5.15	60	E	0.75	0.233	35.80	0.116	0.12	
Measurement Grid										
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit			
1	20	0.9%	6	120	7.5%	2.65	0.53			
2	40	0.9%	7	140	21.2%					
3	60	1.2%	8	160	29.0%					
4	80	3.6%	9	180	16.2%					
5	100	3.6%	10	200	3.8%					
								<b>RF Po (*Max)</b>	36.0	

**Table 26**

Internal Vehicle MPE Assessment @ 794.0875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4014A	5.15	Highest Reading	E	0.75	0.103	0.064	35.80	0.052	0.05
Measurement Grid										
Test Position		% of Control Limit Head		% of Control Limit Chest		% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.65
Back Seat		2.2%		7.0%		2.5%		IEEE Uncontrolled Limit:		0.53
Front Seat		2.6%		2.5%		2.2%			<b>RF Po (*Max):</b>	36.0

**Table 27**

External Vehicle MPE Assessment @ 809.000 MHz										
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )	
Roof (cnt)	HAF4014A	5.15	60	E	0.75	0.275	41.30	0.138	0.14	
Measurement Grid										
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit			
1	20	0.8%	6	120	11.4%	2.70	0.54			
2	40	1.0%	7	140	29.1%					
3	60	1.3%	8	160	27.1%					
4	80	3.3%	9	180	19.0%					
5	100	2.5%	10	200	6.6%					
								<b>RF Po (*Max)</b>	42.0	

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**Table 28**

Internal Vehicle MPE Assessment @ 809.000 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4014A	5.15	Highest Reading	E	0.75	0.133	0.078	41.30	0.067	0.07
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		IEEE Uncontrolled Limit:		
Back Seat		5.8%	5.6%	3.4%				2.70		
Front Seat		3.3%	3.6%	1.8%				<b>RF Po (*Max):</b>		42.0

**Table 29**

External Vehicle MPE Assessment @ 823.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4014A	5.15	60	E	0.75	0.229	41.80	0.115	0.12
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit		
1	20	0.7%	6	120	10.4%	2.75	0.55		
2	40	0.6%	7	140	20.1%	<b>RF Po (*Max)</b>			
3	60	1.5%	8	160	22.6%				
4	80	2.6%	9	180	15.8%				
5	100	3.7%	10	200	5.5%	42.0			

**Table 30**

Internal Vehicle MPE Assessment @ 823.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4014A	5.15	Highest Reading	E	0.75	0.125	0.056	41.80	0.062	0.06
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		IEEE Uncontrolled Limit:		
Back Seat		3.4%	6.4%	3.8%				2.75		
Front Seat		2.4%	2.1%	1.6%				<b>RF Po (*Max):</b>		42.0

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**Table 31**

External Vehicle MPE Assessment @ 851.0125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4014A	5.15	60	E	0.74	0.207	41.90	0.103	0.10
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit		
1	20	0.8%	6	120	8.9%	2.84		0.57	
2	40	0.9%	7	140	13.7%	RF Po (*Max)			
3	60	1.6%	8	160	21.1%				
4	80	1.9%	9	180	15.5%				
5	100	3.2%	10	200	5.2%			42.0	

**Table 32**

Internal Vehicle MPE Assessment @ 851.0125 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4014A	5.15	Highest Reading	E	0.74	0.038	0.038	41.90	0.019	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk	IEEE Controlled Limit:		2.84			
Back Seat		1.6%	1.2%	1.2%	IEEE Uncontrolled Limit:		0.57			
Front Seat		1.4%	1.3%	1.3%	RF Po (*Max):		42.0			

**Table 33**

External Vehicle MPE Assessment @ 860.5 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4014A	5.15	60	E	0.74	0.174	41.80	0.087	0.09
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit		
1	20	0.8%	6	120	5.5%	2.87		0.57	
2	40	1.1%	7	140	11.7%	RF Po (*Max)			
3	60	1.4%	8	160	16.5%				
4	80	1.8%	9	180	14.4%				
5	100	2.8%	10	200	4.7%			42.0	

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**Table 34**

Internal Vehicle MPE Assessment @ 860.5 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4014A	5.15	Highest Reading	E	0.74	0.029	0.037	41.80	0.019	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:			2.87	
Back Seat		1.2%	0.8%	1.0%		IEEE Uncontrolled Limit:			0.57	
Front Seat		1.0%	1.7%	1.2%					<b>RF Po (*Max):</b>	42.0

**Table 35**

External Vehicle MPE Assessment @ 869.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4014A	5.15	60	E	0.74	0.165	41.90	0.082	0.08
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit	
1	20	0.6%	6	120	6.5%		2.90	0.58	
2	40	1.3%	7	140	10.2%				
3	60	1.7%	8	160	16.2%				
4	80	1.8%	9	180	11.0%				
5	100	2.2%	10	200	5.3%				
							<b>RF Po (*Max):</b>	42.0	

**Table 36**

Internal Vehicle MPE Assessment @ 869.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4014A	5.15	Highest Reading	E	0.74	0.053	0.043	41.90	0.027	0.03
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:			2.90	
Back Seat		2.0%	2.2%	1.3%		IEEE Uncontrolled Limit:			0.58	
Front Seat		1.6%	1.3%	1.6%					<b>RF Po (*Max):</b>	42.0

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**Table 37**

External Vehicle MPE Assessment @ 764.0875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4013A	5.15	60	E	0.76	0.155	35.50	0.078	0.08
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	1.0%	6	120	4.4%	2.55		0.51	
2	40	1.1%	7	140	8.6%				
3	60	1.1%	8	160	14.0%				
4	80	2.1%	9	180	13.9%				
5	100	2.7%	10	200	12.1%				
								36.0	

**Table 38**

Internal Vehicle MPE Assessment @ 764.0875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4013A	5.15	Highest Reading	E	0.76	0.063	0.042	35.50	0.031	0.03
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk	IEEE Controlled Limit:		IEEE Uncontrolled Limit:			
Back Seat		2.3%	2.7%	2.4%	2.55		0.51			
Front Seat		1.9%	1.6%	1.5%			<b>RF Po (*Max):</b>		36.0	

**Table 39**

External Vehicle MPE Assessment @ 770.000 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4013A	5.15	60	E	0.76	0.170	35.60	0.085	0.09
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	1.1%	6	120	4.5%	2.57		0.51	
2	40	1.1%	7	140	8.7%				
3	60	1.2%	8	160	17.2%				
4	80	1.5%	9	180	17.4%				
5	100	2.3%	10	200	11.1%				
								36.0	

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**Table 40**

Internal Vehicle MPE Assessment @ 770.000 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4013A	5.15	Highest Reading	E	0.76	0.069	0.047	35.60	0.035	0.04
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:			2.57	
Back Seat		2.1%	2.8%	3.2%		IEEE Uncontrolled Limit:			0.51	
Front Seat		2.3%	1.7%	1.5%		<b>RF Po (*Max):</b>			36.0	

**Table 41**

External Vehicle MPE Assessment @ 775.9125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4013A	5.15	60	E	0.76	0.160	35.60	0.080	0.08
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit	
1	20	1.0%	6	120	3.6%		2.59	0.52	
2	40	0.8%	7	140	10.5%		<b>RF Po (*Max):</b>	36.0	
3	60	1.1%	8	160	16.2%				
4	80	1.1%	9	180	15.0%				
5	100	1.7%	10	200	10.8%				

**Table 42**

Internal Vehicle MPE Assessment @ 775.9125 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4013A	5.15	Highest Reading	E	0.76	0.088	0.042	35.60	0.044	0.04
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:			2.59	
Back Seat		3.1%	4.6%	2.5%		IEEE Uncontrolled Limit:			0.52	
Front Seat		2.3%	1.3%	1.3%		<b>RF Po (*Max):</b>			36.0	

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**Table 43**

External Vehicle MPE Assessment @ 794.0875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4013A	5.15	60	E	0.75	0.159	35.80	0.080	0.08
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	1.0%		6	120	3.7%		2.65	0.53
2	40	0.8%		7	140	10.0%			
3	60	1.2%		8	160	14.7%			
4	80	2.2%		9	180	14.0%			
5	100	2.2%		10	200	10.4%			
								<b>RF Po (*Max)</b>	36.0

**Table 44**

Internal Vehicle MPE Assessment @ 794.0875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4013A	5.15	Highest Reading	E	0.75	0.088	0.034	35.80	0.044	0.04
Measurement Grid										
Test Position		% of Control Limit Head		% of Control Limit Chest		% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.65
Back Seat		3.4%		4.5%		2.1%		IEEE Uncontrolled Limit:		0.53
Front Seat		1.0%		1.4%		1.4%		<b>RF Po (*Max):</b>		36.0

**Table 45**

External Vehicle MPE Assessment @ 809.000 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4013A	5.15	60	E	0.75	0.198	41.30	0.099	0.10
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.7%		6	120	5.5%		2.70	0.54
2	40	0.8%		7	140	12.8%			
3	60	1.5%		8	160	17.7%			
4	80	2.2%		9	180	17.6%			
5	100	1.9%		10	200	12.9%			
								<b>RF Po (*Max)</b>	42.0

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Table 46

Internal Vehicle MPE Assessment @ 809.000 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4013A	5.15	Highest Reading	E	0.75	0.077	0.053	41.30	0.039	0.04
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:			2.70	
Back Seat		4.3%	2.4%	1.9%		IEEE Uncontrolled Limit:			0.54	
Front Seat		1.5%	2.3%	2.1%		RF Po (*Max):			42.0	

Table 47

External Vehicle MPE Assessment @ 823.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4013A	5.15	60	E	0.75	0.175	41.80	0.088	0.09
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit		
1	20	0.8%	6	120	4.7%	2.75	0.55		
2	40	0.9%	7	140	9.5%				
3	60	1.5%	8	160	14.8%				
4	80	2.2%	9	180	14.6%				
5	100	3.1%	10	200	11.7%			RF Po (*Max): 42.0	

Table 48

Internal Vehicle MPE Assessment @ 823.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4013A	5.15	Highest Reading	E	0.75	0.069	0.060	41.80	0.034	0.03
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:			2.75	
Back Seat		2.2%	3.1%	2.2%		IEEE Uncontrolled Limit:			0.55	
Front Seat		2.6%	2.1%	1.8%		RF Po (*Max):			42.0	

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**Table 49**

External Vehicle MPE Assessment @ 851.0125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4013A	5.15	60	E	0.74	0.167	41.90	0.084	0.08
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit		
1	20	1.2%	6	120	5.0%	2.84	0.57		
2	40	1.3%	7	140	8.3%				
3	60	1.2%	8	160	11.6%				
4	80	2.5%	9	180	13.8%				
5	100	2.7%	10	200	11.4%				
							<b>RF Po (*Max)</b>		42.0

**Table 50**

Internal Vehicle MPE Assessment @ 851.0125 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4013A	5.15	Highest Reading	E	0.74	0.059	0.050	41.90	0.029	0.03
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk	IEEE Controlled Limit:		2.84			
Back Seat		1.7%	1.7%	2.8%	IEEE Uncontrolled Limit:		0.57			
Front Seat		1.8%	1.5%	2.0%			<b>RF Po (*Max):</b>		42.0	

**Table 51**

External Vehicle MPE Assessment @ 860.5 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4013A	5.15	60	E	0.74	0.164	41.80	0.082	0.08
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit		
1	20	0.8%	6	120	4.0%	2.87	0.57		
2	40	1.0%	7	140	7.4%				
3	60	1.2%	8	160	11.7%				
4	80	2.2%	9	180	15.9%				
5	100	2.4%	10	200	10.5%				
							<b>RF Po (*Max)</b>		42.0

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**Table 52**

Internal Vehicle MPE Assessment @ 860.5 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4013A	5.15	Highest Reading	E	0.74	0.035	0.026	41.80	0.018	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:			2.87	
Back Seat		1.2%	1.0%	1.5%		IEEE Uncontrolled Limit:			0.57	
Front Seat		0.6%	1.1%	1.0%		RF Po (*Max):			42.0	

**Table 53**

External Vehicle MPE Assessment @ 869.9875 MHz										
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )	
										Roof (cnt)
Measurement Grid										
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit	
1	20	0.7%		6	120	4.3%		2.90	0.58	
2	40	1.2%		7	140	6.7%		RF Po (*Max)		
3	60	1.1%		8	160	12.7%				
4	80	1.7%		9	180	16.1%				
5	100	2.1%		10	200	12.0%		42.0		

**Table 54**

Internal Vehicle MPE Assessment @ 869.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4013A	5.15	Highest Reading	E	0.74	0.043	0.028	41.90	0.022	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:			2.90	
Back Seat		1.5%	1.8%	1.2%		IEEE Uncontrolled Limit:			0.58	
Front Seat		0.9%	1.0%	1.0%		RF Po (*Max):			42.0	

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**Table 55**

External Vehicle MPE Assessment @ 764.0875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4017A	5.15	60	E	0.76	0.124	35.50	0.062	0.06
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	1.1%	6	120	1.0%	2.55		0.51	
2	40	1.1%	7	140	1.6%				
3	60	1.1%	8	160	8.0%				
4	80	0.9%	9	180	17.2%				
5	100	0.9%	10	200	15.9%				
								36.0	

**Table 56**

Internal Vehicle MPE Assessment @ 764.0875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4017A	5.15	Highest Reading	E	0.76	0.020	0.015	35.50	0.010	0.01
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk	IEEE Controlled Limit:		IEEE Uncontrolled Limit:			
Back Seat		0.8%	0.8%	0.7%	2.55		0.51			
Front Seat		0.6%	0.6%	0.6%			<b>RF Po (*Max):</b>			
								36.0		

**Table 57**

External Vehicle MPE Assessment @ 770.000 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4017A	5.15	60	E	0.76	0.117	35.60	0.059	0.06
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	0.7%	6	120	1.0%	2.57		0.51	
2	40	0.6%	7	140	2.1%				
3	60	0.8%	8	160	10.0%				
4	80	1.0%	9	180	17.0%				
5	100	0.9%	10	200	11.6%				
								36.0	

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**Table 58**

Internal Vehicle MPE Assessment @ 770.000 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4017A	5.15	Highest Reading	E	0.76	0.015	0.016	35.60	0.008	0.01
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk			IEEE Controlled Limit:		2.57	
Back Seat		0.6%	0.6%	0.6%			IEEE Uncontrolled Limit:		0.51	
Front Seat		0.6%	0.6%	0.7%			RF Po (*Max):		36.0	

**Table 59**

External Vehicle MPE Assessment @ 775.9125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4017A	5.15	60	E	0.76	0.108	35.60	0.054	0.05
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit	
1	20	0.9%	6	120	1.7%		2.59	0.52	
2	40	0.9%	7	140	2.4%		RF Po (*Max):		
3	60	0.8%	8	160	9.0%				
4	80	0.7%	9	180	14.1%				
5	100	1.0%	10	200	10.2%				

**Table 60**

Internal Vehicle MPE Assessment @ 775.9125 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4017A	5.15	Highest Reading	E	0.76	0.018	0.013	35.60	0.009	0.01
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk			IEEE Controlled Limit:		2.59	
Back Seat		0.7%	0.7%	0.7%			IEEE Uncontrolled Limit:		0.52	
Front Seat		0.5%	0.5%	0.5%			RF Po (*Max):		36.0	

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**Table 61**

External Vehicle MPE Assessment @ 794.0875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4017A	5.15	60	E	0.75	0.139	35.80	0.069	0.07
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit		
1	20	1.0%	6	120	2.3%	2.65	0.53		
2	40	1.0%	7	140	6.2%				
3	60	1.2%	8	160	11.7%				
4	80	1.2%	9	180	15.7%				
5	100	1.2%	10	200	10.9%				
								<b>RF Po (*Max)</b>	36.0

**Table 62**

Internal Vehicle MPE Assessment @ 794.0875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4017A	5.15	Highest Reading	E	0.75	0.022	0.014	35.80	0.011	0.01
Measurement Grid										
Test Position	% of Control Limit Head		% of Control Limit Chest		% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.65	
Back Seat	0.8%		1.0%		0.7%		IEEE Uncontrolled Limit:		0.53	
Front Seat	0.5%		0.5%		0.6%				<b>RF Po (*Max):</b>	36.0

**Table 63**

External Vehicle MPE Assessment @ 809.000 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4017A	5.15	60	E	0.75	0.186	41.30	0.093	0.09
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit		
1	20	0.6%	6	120	2.6%	2.70	0.54		
2	40	0.7%	7	140	9.1%				
3	60	1.6%	8	160	17.1%				
4	80	1.9%	9	180	20.4%				
5	100	1.9%	10	200	13.0%				
								<b>RF Po (*Max)</b>	42.0

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**Table 64**

Internal Vehicle MPE Assessment @ 809.000 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4017A	5.15	Highest Reading	E	0.75	0.033	0.028	41.30	0.017	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		IEEE Uncontrolled Limit:		
Back Seat		1.7%	1.0%	1.0%				2.70		
Front Seat		1.0%	0.8%	1.3%				<b>RF Po (*Max):</b>		42.0

**Table 65**

External Vehicle MPE Assessment @ 823.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4017A	5.15	60	E	0.75	0.191	41.80	0.096	0.10
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit		
1	20	0.7%	6	120	5.3%	2.75			
2	40	0.5%	7	140	10.2%	<b>RF Po (*Max):</b>			
3	60	1.3%	8	160	18.6%				
4	80	1.5%	9	180	16.8%				
5	100	1.6%	10	200	13.2%				

**Table 66**

Internal Vehicle MPE Assessment @ 823.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4017A	5.15	Highest Reading	E	0.75	0.058	0.036	41.80	0.029	0.03
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		IEEE Uncontrolled Limit:		
Back Seat		1.4%	3.2%	1.7%				2.75		
Front Seat		1.4%	1.1%	1.4%				<b>RF Po (*Max):</b>		42.0

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**Table 67**

External Vehicle MPE Assessment @ 851.0125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4017A	5.15	60	E	0.74	0.187	41.90	0.093	0.09
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.8%		6	120	6.3%		2.84	0.57
2	40	1.1%		7	140	11.6%			
3	60	1.1%		8	160	16.0%			
4	80	1.5%		9	180	14.6%			
5	100	2.4%		10	200	10.4%			

**Table 68**

Internal Vehicle MPE Assessment @ 851.0125 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4017A	5.15	Highest Reading	E	0.74	0.040	0.026	41.90	0.020	0.02
Measurement Grid										
Test Position		% of Control Limit Head		% of Control Limit Chest		% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.84
Back Seat		0.8%		0.9%		2.5%		IEEE Uncontrolled Limit:		0.57
Front Seat		0.6%		0.9%		1.2%				<b>RF Po (*Max):</b> 42.0

**Table 69**

External Vehicle MPE Assessment @ 860.5 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4017A	5.15	60	E	0.74	0.174	41.80	0.087	0.09
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.6%		6	120	5.8%		2.87	0.57
2	40	1.5%		7	140	9.1%			
3	60	1.7%		8	160	15.4%			
4	80	1.7%		9	180	12.2%			
5	100	3.3%		10	200	9.2%			

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**Table 70**

Internal Vehicle MPE Assessment @ 860.5 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4017A	5.15	Highest Reading	E	0.74	0.041	0.020	41.80	0.021	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:			2.87	
Back Seat		1.5%	0.7%	2.1%		IEEE Uncontrolled Limit:			0.57	
Front Seat		0.7%	0.5%	0.9%					<b>RF Po (*Max):</b>	42.0

**Table 71**

External Vehicle MPE Assessment @ 869.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4017A	5.15	60	E	0.74	0.177	41.90	0.088	0.09
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	1.0%		6	120	6.6%		2.90	0.58
2	40	1.2%		7	140	11.4%		<b>RF Po (*Max)</b>	42.0
3	60	1.9%		8	160	16.2%			
4	80	1.9%		9	180	9.6%			
5	100	2.8%		10	200	8.4%			

**Table 72**

Internal Vehicle MPE Assessment @ 869.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4017A	5.15	Highest Reading	E	0.74	0.048	0.024	41.90	0.024	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:			2.90	
Back Seat		1.6%	1.1%	2.3%		IEEE Uncontrolled Limit:			0.58	
Front Seat		0.8%	0.9%	0.8%					<b>RF Po (*Max):</b>	42.0

**APCO**

**Table 73**

External Vehicle MPE Assessment @ 809.000 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RRA4914B	5.15	60	E	0.75	0.218	41.30	0.109	0.11
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	1.0%	6	120	8.1%	2.70		0.54	
2	40	0.8%	7	140	17.8%				
3	60	1.8%	8	160	19.4%				
4	80	2.0%	9	180	13.6%				
5	100	2.7%	10	200	13.7%			RF Po (*Max) 42.0	

**Table 74**

Internal Vehicle MPE Assessment @ 809.000 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	RRA4914B	5.15	Highest Reading	E	0.75	0.103	0.086	41.30	0.052	0.05
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk	IEEE Controlled Limit:		IEEE Uncontrolled Limit:			
Back Seat		4.6%	3.7%	3.2%	2.70		0.54			
Front Seat		2.9%	2.4%	4.3%			RF Po (*Max): 42.0			

**Table 75**

External Vehicle MPE Assessment @ 823.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RRA4914B	5.15	60	E	0.75	0.184	41.80	0.092	0.09
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	1.1%	6	120	8.1%	2.75		0.55	
2	40	1.4%	7	140	14.7%				
3	60	1.6%	8	160	16.3%				
4	80	2.6%	9	180	12.8%				
5	100	2.9%	10	200	5.5%			RF Po (*Max) 42.0	

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**Table 76**

Internal Vehicle MPE Assessment @ 823.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	RRA4914B	5.15	Highest Reading	E	0.75	0.110	0.077	41.80	0.055	0.06
Measurement Grid										
Test Position		% of Control Limit Head		% of Control Limit Chest		% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.75
Back Seat		2.5%		5.2%		4.3%		IEEE Uncontrolled Limit:		0.55
Front Seat		3.5%		2.2%		2.7%			<b>RF Po (*Max):</b>	42.0

**Table 77**

External Vehicle MPE Assessment @ 851.0125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RRA4914B	5.15	60	E	0.74	0.226	41.90	0.113	0.11
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.5%		6	120	10.0%		2.84	0.57
2	40	1.1%		7	140	14.5%			<b>RF Po (*Max)</b>
3	60	1.6%		8	160	21.9%			
4	80	2.1%		9	180	16.9%			
5	100	3.9%		10	200	7.0%			

**Table 78**

Internal Vehicle MPE Assessment @ 851.0125 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	RRA4914B	5.15	Highest Reading	E	0.74	0.049	0.040	41.90	0.025	0.02
Measurement Grid										
Test Position		% of Control Limit Head		% of Control Limit Chest		% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.84
Back Seat		1.6%		1.3%		2.3%		IEEE Uncontrolled Limit:		0.57
Front Seat		1.3%		1.6%		1.3%			<b>RF Po (*Max):</b>	42.0

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**Table 79**

External Vehicle MPE Assessment @ 860.5 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RRA4914B	5.15	60	E	0.74	0.190	41.80	0.095	0.10
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	0.8%	6	120	7.1%	2.87		0.57	
2	40	1.1%	7	140	11.3%			RF Po (*Max)	
3	60	1.6%	8	160	18.4%				
4	80	1.9%	9	180	14.4%				
5	100	3.4%	10	200	6.2%				

**Table 80**

Internal Vehicle MPE Assessment @ 860.5 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	RRA4914B	5.15	Highest Reading	E	0.74	0.050	0.036	41.80	0.025	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.87		
Back Seat		1.6%	1.2%	2.4%		IEEE Uncontrolled Limit:		0.57		
Front Seat		1.0%	1.6%	1.2%				RF Po (*Max):		42.0

**Table 81**

External Vehicle MPE Assessment @ 869.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RRA4914B	5.15	60	E	0.74	0.196	41.90	0.098	0.10
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	0.4%	6	120	6.5%	2.90		0.58	
2	40	0.7%	7	140	14.0%			RF Po (*Max)	
3	60	1.2%	8	160	18.0%				
4	80	2.2%	9	180	14.8%				
5	100	3.4%	10	200	6.4%				

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**Table 82**

Internal Vehicle MPE Assessment @ 869.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	RRA4914B	5.15	Highest Reading	E	0.74	0.022	0.023	41.90	0.012	0.01
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk			IEEE Controlled Limit:	2.90		
Back Seat		0.9%	0.8%	0.6%			IEEE Uncontrolled Limit:	0.58		
Front Seat		0.6%	1.1%	0.7%				<b>RF Po (*Max):</b>	42.0	

**Table 83**

External Vehicle MPE Assessment @ 809.000 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4002A	5.15	60	E	0.75	0.164	41.30	0.082	0.08
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit			IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.3%	6	120	4.9%			2.70	0.54
2	40	0.3%	7	140	10.6%			<b>RF Po (*Max)</b>	42.0
3	60	0.9%	8	160	14.1%				
4	80	1.4%	9	180	15.8%				
5	100	1.1%	10	200	11.5%				

**Table 84**

Internal Vehicle MPE Assessment @ 809.000 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4002A	5.15	Highest Reading	E	0.75	0.082	0.047	41.30	0.041	0.04
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk			IEEE Controlled Limit:	2.70		
Back Seat		3.9%	2.7%	2.5%			IEEE Uncontrolled Limit:	0.54		
Front Seat		1.6%	1.1%	2.5%				<b>RF Po (*Max):</b>	42.0	

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**Table 85**

External Vehicle MPE Assessment @ 823.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4002A	5.15	60	E	0.75	0.157	41.80	0.079	0.08
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.4%		6	120	4.1%		2.75	0.55
2	40	0.6%		7	140	8.9%			
3	60	1.1%		8	160	14.3%			
4	80	1.5%		9	180	13.9%			RF Po (*Max)
5	100	1.8%		10	200	10.7%			42.0

**Table 86**

Internal Vehicle MPE Assessment @ 823.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4002A	5.15	Highest Reading	E	0.75	0.049	0.051	41.80	0.026	0.03
Measurement Grid										
Test Position		% of Control Limit Head		% of Control Limit Chest		% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.75
Back Seat		1.2%		2.5%		1.7%		IEEE Uncontrolled Limit:		0.55
Front Seat		2.4%		1.5%		1.7%		RF Po (*Max):		42.0

**Table 87**

External Vehicle MPE Assessment @ 851.0125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4002A	5.15	60	E	0.74	0.156	41.90	0.078	0.08
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.4%		6	120	5.1%		2.84	0.57
2	40	0.4%		7	140	8.2%			
3	60	1.0%		8	160	12.0%			
4	80	1.0%		9	180	14.3%			RF Po (*Max)
5	100	1.6%		10	200	10.9%			42.0

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Table 88

Internal Vehicle MPE Assessment @ 851.0125 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4002A	5.15	Highest Reading	E	0.74	0.037	0.022	41.90	0.018	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:			2.84	
Back Seat		1.1%	0.7%	2.1%		IEEE Uncontrolled Limit:			0.57	
Front Seat		0.8%	0.7%	0.8%		RF Po (*Max):			42.0	

Table 89

External Vehicle MPE Assessment @ 860.5 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4002A	5.15	60	E	0.74	0.140	41.80	0.070	0.07
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit	
1	20	0.3%	6	120	3.6%		2.87	0.57	
2	40	0.4%	7	140	6.8%			RF Po (*Max)	
3	60	1.1%	8	160	10.3%			42.0	
4	80	1.2%	9	180	13.5%				
5	100	1.8%	10	200	9.8%				

Table 90

Internal Vehicle MPE Assessment @ 860.5 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4002A	5.15	Highest Reading	E	0.74	0.023	0.014	41.80	0.011	0.01
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:			2.87	
Back Seat		1.2%	0.4%	0.8%		IEEE Uncontrolled Limit:			0.57	
Front Seat		0.3%	0.4%	0.8%		RF Po (*Max):			42.0	

**APCO**

**Table 91**

External Vehicle MPE Assessment @ 869.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4002A	5.15	60	E	0.74	0.140	41.90	0.070	0.07
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	0.5%	6	120	3.5%	2.90		0.58	
2	40	0.6%	7	140	5.4%				
3	60	1.1%	8	160	10.8%				
4	80	1.3%	9	180	13.3%				
5	100	2.1%	10	200	9.6%				
								<b>RF Po (*Max)</b>	
								42.0	

**Table 92**

Internal Vehicle MPE Assessment @ 869.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4002A	5.15	Highest Reading	E	0.74	0.023	0.017	41.90	0.012	0.01
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.90		
Back Seat		1.2%	0.6%	0.6%		IEEE Uncontrolled Limit:		0.58		
Front Seat		0.7%	0.4%	0.7%				<b>RF Po (*Max):</b>		
								42.0		

**HPD**

**Table 93**

External Vehicle MPE Assessment @ 794.0875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4016A	2.15	30	E	0.75	0.046	11.60	0.046	0.05
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	0.6%	6	120	1.4%	2.65		0.53	
2	40	0.5%	7	140	2.7%				
3	60	0.6%	8	160	3.9%				
4	80	0.8%	9	180	3.6%				
5	100	0.7%	10	200	2.5%				
								<b>RF Po (*Max)</b>	
								12.0	

**HPD**

**Table 94**

Internal Vehicle MPE Assessment @ 794.0875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4016A	2.15	Highest Reading	E	0.75	0.014	0.011	11.60	0.014	0.01
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.65		
Back Seat		0.5%	0.6%	0.5%		IEEE Uncontrolled Limit:		0.53		
Front Seat		0.3%	0.4%	0.5%				RF Po (*Max):		12.0

**Table 95**

External Vehicle MPE Assessment @ 809.000 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit	
1	20	0.3%	6	120	1.1%		2.70	0.54	
2	40	0.4%	7	140	2.2%				
3	60	0.5%	8	160	3.4%				
4	80	0.6%	9	180	3.2%				
5	100	0.7%	10	200	2.6%				

**Table 96**

Internal Vehicle MPE Assessment @ 809.000 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4016A	2.15	Highest Reading	E	0.75	0.019	0.011	11.20	0.019	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.70		
Back Seat		0.9%	0.5%	0.7%		IEEE Uncontrolled Limit:		0.54		
Front Seat		0.3%	0.3%	0.6%				RF Po (*Max):		12.0

**HPD**

Table 97

External Vehicle MPE Assessment @ 823.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4016A	2.15	30	E	0.75	0.034	11.70	0.034	0.03
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.2%		6	120	0.9%		2.75	0.55
2	40	0.2%		7	140	2.0%			
3	60	0.3%		8	160	2.4%			
4	80	0.4%		9	180	3.0%			
5	100	0.6%		10	200	2.3%			
								<b>RF Po (*Max)</b>	
								12.0	

Table 98

Internal Vehicle MPE Assessment @ 823.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4016A	2.15	Highest Reading	E	0.75	0.015	0.015	11.70	0.015	0.02
Measurement Grid										
Test Position		% of Control Limit Head		% of Control Limit Chest		% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.75
Back Seat		0.5%		0.4%		0.7%		IEEE Uncontrolled Limit:		0.55
Front Seat		0.6%		0.5%		0.5%				<b>RF Po (*Max):</b>
										12.0

Table 99

External Vehicle MPE Assessment @ 794.0875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4014A	5.15	30	E	0.75	0.054	11.60	0.054	0.06
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.5%		6	120	1.8%		2.65	0.53
2	40	0.4%		7	140	4.2%			
3	60	0.6%		8	160	4.2%			
4	80	1.0%		9	180	2.9%			
5	100	1.2%		10	200	3.7%			
								<b>RF Po (*Max)</b>	
								12.0	

**HPD**

**Table 100**

Internal Vehicle MPE Assessment @ 794.0875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4014A	5.15	Highest Reading	E	0.75	0.026	0.019	11.60	0.026	0.03
Measurement Grid										
Test Position	% of Control Limit Head		% of Control Limit Chest		% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.65	
Back Seat	0.8%		1.3%		0.8%		IEEE Uncontrolled Limit:		0.53	
Front Seat	0.6%		0.7%		0.9%		RF Po (*Max):		12.0	

**Table 101**

External Vehicle MPE Assessment @ 809.000 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4014A	5.15	30	E	0.75	0.046	11.20	0.046	0.05
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.4%		6	120	1.7%		2.70	0.54
2	40	0.4%		7	140	3.9%		RF Po (*Max):	12.0
3	60	0.7%		8	160	4.0%			
4	80	0.8%		9	180	3.3%			
5	100	0.8%		10	200	1.1%			

**Table 102**

Internal Vehicle MPE Assessment @ 809.000 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4014A	5.15	Highest Reading	E	0.75	0.025	0.019	11.20	0.025	0.03
Measurement Grid										
Test Position	% of Control Limit Head		% of Control Limit Chest		% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.70	
Back Seat	1.1%		0.5%		1.2%		IEEE Uncontrolled Limit:		0.54	
Front Seat	0.8%		0.4%		0.9%		RF Po (*Max):		12.0	

**HPD**

**Table 103**

External Vehicle MPE Assessment @ 823.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4014A	5.15	30	E	0.75	0.052	11.70	0.052	0.05
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.4%		6	120	1.8%		2.75	0.55
2	40	0.4%		7	140	3.6%			
3	60	0.6%		8	160	4.9%			
4	80	0.8%		9	180	3.7%			
5	100	0.9%		10	200	1.7%			
								RF Po (*Max)	12.0

**Table 104**

Internal Vehicle MPE Assessment @ 823.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4014A	5.15	Highest Reading	E	0.75	0.020	0.016	11.70	0.020	0.02
Measurement Grid										
Test Position		% of Control Limit Head		% of Control Limit Chest		% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.75
Back Seat		0.5%		0.8%		0.9%		IEEE Uncontrolled Limit:		0.55
Front Seat		0.6%		0.5%		0.7%		RF Po (*Max):		12.0

**Table 105**

External Vehicle MPE Assessment @ 794.0875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4013A	5.15	30	E	0.75	0.038	11.60	0.038	0.04
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.3%		6	120	1.0%		2.65	0.53
2	40	0.4%		7	140	2.7%			
3	60	0.4%		8	160	3.4%			
4	80	0.6%		9	180	2.8%			
5	100	0.4%		10	200	2.5%			
								RF Po (*Max)	12.0

**HPD**

**Table 106**

Internal Vehicle MPE Assessment @ 794.0875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4013A	5.15	Highest Reading	E	0.75	0.015	0.012	11.60	0.015	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.65		
Back Seat		0.4%	0.8%	0.5%		IEEE Uncontrolled Limit:		0.53		
Front Seat		0.4%	0.4%	0.6%				<b>RF Po (*Max):</b>	12.0	

**Table 107**

External Vehicle MPE Assessment @ 809.000 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4013A	5.15	30	E	0.75	0.044	11.20	0.044	0.05
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.3%		6	120	1.3%		2.70	0.54
2	40	0.3%		7	140	2.7%			
3	60	0.3%		8	160	3.9%			
4	80	0.5%		9	180	3.7%			
5	100	0.4%		10	200	2.8%			

**Table 108**

Internal Vehicle MPE Assessment @ 809.000 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4013A	5.15	Highest Reading	E	0.75	0.018	0.014	11.20	0.018	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.70		
Back Seat		0.6%	0.6%	0.8%		IEEE Uncontrolled Limit:		0.54		
Front Seat		0.5%	0.4%	0.7%				<b>RF Po (*Max):</b>	12.0	

**HPD**

**Table 109**

External Vehicle MPE Assessment @ 823.9875 MHz										
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )	
Roof (cnt)	HAF4013A	5.15	30	E	0.75	0.045	11.70	0.045	0.05	
Measurement Grid										
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit			
1	20	0.4%	6	120	1.4%	2.75	0.55			
2	40	0.4%	7	140	2.5%					
3	60	0.5%	8	160	3.5%					
4	80	0.4%	9	180	3.9%					
5	100	0.5%	10	200	3.0%					
								<b>RF Po (*Max)</b>		
									12.0	

**Table 110**

Internal Vehicle MPE Assessment @ 823.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4013A	5.15	Highest Reading	E	0.75	0.016	0.017	11.70	0.017	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk	IEEE Controlled Limit:		2.75			
Back Seat		0.4%	0.6%	0.8%	IEEE Uncontrolled Limit:		0.55			
Front Seat		0.8%	0.6%	0.5%	<b>RF Po (*Max):</b>		12.0			

**Table 111**

External Vehicle MPE Assessment @ 794.0875 MHz										
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )	
Roof (cnt)	HAF4017A	5.15	30	E	0.75	0.040	11.60	0.040	0.04	
Measurement Grid										
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit			
1	20	0.3%	6	120	0.6%	2.65	0.53			
2	40	0.3%	7	140	1.6%					
3	60	0.4%	8	160	3.7%					
4	80	0.4%	9	180	4.2%					
5	100	0.5%	10	200	3.0%					
								<b>RF Po (*Max)</b>		
									12.0	

**HPD**

**Table 112**

Internal Vehicle MPE Assessment @ 794.0875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4017A	5.15	Highest Reading	E	0.75	0.007	0.008	11.60	0.008	0.01
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.65		
Back Seat		0.3%	0.2%	0.3%		IEEE Uncontrolled Limit:		0.53		
Front Seat		0.3%	0.3%	0.3%				RF Po (*Max):		12.0

**Table 113**

External Vehicle MPE Assessment @ 809.000 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4017A	5.15	30	E	0.75	0.044	11.20	0.044	0.05
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit	
1	20	0.3%	6	120	0.9%		2.70	0.54	
2	40	0.4%	7	140	2.5%		RF Po (*Max)		
3	60	0.5%	8	160	3.5%				
4	80	0.5%	9	180	4.2%				
5	100	0.6%	10	200	2.8%		12.0		

**Table 114**

Internal Vehicle MPE Assessment @ 809.000 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4017A	5.15	Highest Reading	E	0.75	0.009	0.009	11.20	0.009	0.01
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.70		
Back Seat		0.4%	0.3%	0.3%		IEEE Uncontrolled Limit:		0.54		
Front Seat		0.3%	0.3%	0.4%				RF Po (*Max):		12.0

**HPD**

**Table 115**

External Vehicle MPE Assessment @ 823.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4017A	5.15	30	E	0.75	0.046	11.70	0.046	0.05
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	0.3%	6	120	1.3%	2.75		0.55	
2	40	0.5%	7	140	2.6%			RF Po (*Max)	
3	60	0.5%	8	160	4.0%				
4	80	0.5%	9	180	3.7%				
5	100	0.6%	10	200	2.9%				

**Table 116**

Internal Vehicle MPE Assessment @ 823.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4017A	5.15	Highest Reading	E	0.75	0.013	0.013	11.70	0.013	0.01
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.75		
Back Seat		0.4%	0.4%	0.6%		IEEE Uncontrolled Limit:		0.55		
Front Seat		0.5%	0.4%	0.5%				RF Po (*Max): 12.0		

**Table 117**

External Vehicle MPE Assessment @ 809.000 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RRA4914B	5.15	30	E	0.75	0.053	11.20	0.053	0.06
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	0.4%	6	120	1.8%	2.70		0.54	
2	40	0.3%	7	140	3.9%			RF Po (*Max)	
3	60	0.7%	8	160	5.6%				
4	80	0.9%	9	180	3.7%				
5	100	1.0%	10	200	1.5%				

**HPD**

**Table 118**

Internal Vehicle MPE Assessment @ 809.000 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	RRA4914B	5.15	Highest Reading	E	0.75	0.022	0.019	11.20	0.022	0.02
Measurement Grid										
Test Position		% of Control Limit Head		% of Control Limit Chest		% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.70
Back Seat		0.7%		0.7%		1.1%		IEEE Uncontrolled Limit:		0.54
Front Seat		0.7%		0.5%		0.9%			<b>RF Po (*Max):</b>	12.0

**Table 119**

External Vehicle MPE Assessment @ 823.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RRA4914B	5.15	30	E	0.75	0.043	11.70	0.043	0.04
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.3%		6	120	1.8%		2.75	0.55
2	40	0.4%		7	140	3.1%			
3	60	0.8%		8	160	4.3%			
4	80	0.6%		9	180	2.2%			
5	100	0.8%		10	200	1.4%			
								<b>RF Po (*Max):</b>	12.0

**Table 120**

Internal Vehicle MPE Assessment @ 823.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	RRA4914B	5.15	Highest Reading	E	0.75	0.020	0.023	11.70	0.023	0.02
Measurement Grid										
Test Position		% of Control Limit Head		% of Control Limit Chest		% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.75
Back Seat		0.5%		0.7%		1.0%		IEEE Uncontrolled Limit:		0.55
Front Seat		1.0%		0.7%		0.8%			<b>RF Po (*Max):</b>	12.0

**HPD**

**Table 121**

External Vehicle MPE Assessment @ 809.000 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4002A	2.15	30	E	0.75	0.045	11.20	0.045	0.05
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	0.3%	6	120	1.1%	2.70		0.54	
2	40	0.5%	7	140	2.7%				
3	60	0.5%	8	160	4.2%				
4	80	0.6%	9	180	3.3%				
5	100	0.7%	10	200	2.7%				

**Table 122**

Internal Vehicle MPE Assessment @ 809.000 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4002A	2.15	Highest Reading	E	0.75	0.017	0.013	11.20	0.017	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		IEEE Uncontrolled Limit:		
Back Seat		0.9%	0.3%	0.7%		2.70		0.54		
Front Seat		0.5%	0.5%	0.4%		<b>RF Po (*Max):</b>		12.0		

**Table 123**

External Vehicle MPE Assessment @ 823.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	HAF4002A	2.15	30	E	0.75	0.036	11.70	0.036	0.04
Measurement Grid									
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit		IEEE Uncontrolled Limit	
1	20	0.4%	6	120	1.2%	2.75		0.55	
2	40	0.3%	7	140	2.3%				
3	60	0.4%	8	160	3.3%				
4	80	0.6%	9	180	2.1%				
5	100	0.6%	10	200	1.9%				

**HPD**

**Table 124**

Internal Vehicle MPE Assessment @ 823.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	HAF4002A	2.15	Highest Reading	E	0.75	0.016	0.014	11.70	0.016	0.02
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk	IEEE Controlled Limit:		2.75			
Back Seat		0.5%	0.6%	0.6%	IEEE Uncontrolled Limit:		0.55			
Front Seat		0.6%	0.4%	0.5%	RF Po (*Max):		12.0			