	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

**RF EXPOSURE EVALUATION**  
**SPECIFIC ABSORPTION RATE**

**SAR TEST REPORT**

FOR

**UNIDEN AMERICA CORPORATION**

**PORTABLE 5.8GHz CORDLESS TELEPHONE HANDSET**

**MODEL: TRU9460-2(XX)**

**FCC ID: AMWUP758**

**IC ID: 513C-UP758**

**Test Report Serial Number**

**112405AMW-F697-S15T  
Revision 0**

**Test Report Issue Date**

**December 09, 2005**

**Test Lab**

**Celltech Compliance Testing & Engineering Lab  
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**Test Report Prepared By:**


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General Manager  
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<b>Applicant:</b>	Uniden America Corporation	<b>FCC ID:</b>	AMWUP758	<b>IC ID:</b>	513C-UP758	
<b>Model(s):</b>	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
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## DECLARATION OF COMPLIANCE SAR RF EXPOSURE EVALUATION

### Test Lab

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### Applicant Information

#### **UNIDEN AMERICA CORPORATION**

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Lake City, SC 29560  
United States

**FCC IDENTIFIER:** AMWUP758  
**IC IDENTIFIER:** 513C-UP758  
**Model No.(s):** TRU9460-2(XX)

**Rule Part(s):** FCC 47 CFR §2.1093; IC RSS-102 Issue 2  
**Test Procedure(s):** FCC OET Bulletin 65, Supplement C (Edition 01-01)  
IEEE Standard 1528-2003  
**FCC Device Classification:** Digital Transmission System (DTS)  
**IC Device Classification:** Low Power License-Exempt Radiocommunication Device (RSS-210 Issue 6)

**Device Description:** 5.8 GHz Cordless Telephone Handset  
**Modulation Scheme(s):** TDD / TDMA  
**Transmission System(s):** WDSS - 2 slots (25% Duty Cycle)  
QDSS - 4 slots (12.5% Duty Cycle)  
**Tx Frequency Range(s):** 5741.056 - 5828.096 MHz  
**Max. RF Output Power Tested:** WDSS: 152.05 mW / 21.82 dBm (5828.096 MHz) - Source-Based Time-Averaged  
QDSS: 59.02 mW / 17.71 dBm (5784.576 MHz) - Source-Based Time-Averaged  
**Power Measurement Method:** Radiated Free Space Power  
**Battery Type(s) Tested:** Ni-MH 3.6 V, 800 mAh (P/N: BT-446)  
**Antenna Type(s) Tested:** Internal

**Body-Worn Accessories Tested:** Plastic Belt-Clip  
Headset with Boom-Microphone (P/N: TRUC46)

**Max. SAR Level(s) Evaluated:** Head: 0.0232 W/kg (1g average) - 25% duty cycle  
Body: 0.473 W/kg (1g average) - 25% duty cycle

Celltech Labs Inc. declares under its sole responsibility that this wireless portable device was compliant with the Specific Absorption Rate (SAR) RF exposure requirements specified in FCC 47 CFR §2.1093 and Health Canada's Safety Code 6. The device was tested in accordance with the measurement standards and procedures specified in FCC OET Bulletin 65, Supplement C (Edition 01-01), IEEE 1528-2003, and Industry Canada RSS-102 Issue 2 for the General Population / Uncontrolled Exposure environment. All measurements were performed in accordance with the SAR system manufacturer recommendations.

I attest to the accuracy of data. All measurements were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

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**Tested By:**




**Sean Johnston**  
Compliance Technologist  
Celltech Labs Inc.

**Reviewed By:**



**Spencer Watson**  
Senior Compliance Technologist  
Celltech Labs Inc.



<b>Applicant:</b>	Uniden America Corporation	<b>FCC ID:</b>	AMWUP758	<b>IC ID:</b>	513C-UP758	
<b>Model(s):</b>	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

TABLE OF CONTENTS	
1.0 INTRODUCTION	4
2.0 DESCRIPTION of DEVICE UNDER TEST (DUT)	4
3.0 SAR MEASUREMENT SYSTEM	5
4.0 MEASUREMENT SUMMARY	6
5.0 DETAILS OF SAR EVALUATION	8
6.0 EVALUATION PROCEDURES	9
7.0 SYSTEM PERFORMANCE CHECK	11
8.0 SIMULATED EQUIVALENT TISSUES	12
9.0 SAR SAFETY LIMITS	12
10.0 ROBOT SYSTEM SPECIFICATIONS	13
11.0 PROBE SPECIFICATION (EX3DV4)	14
12.0 SAM PHANTOM V4.0C	14
13.0 DEVICE HOLDER	14
14.0 TEST EQUIPMENT LIST	15
15.0 MEASUREMENT UNCERTAINTIES	16
16.0 REFERENCES	18
APPENDIX A - SAR MEASUREMENT DATA	19
APPENDIX B - SYSTEM PERFORMANCE CHECK DATA	31
APPENDIX C - MEASURED FLUID DIELECTRIC PARAMETERS	36
APPENDIX D - MANUFACTURER'S TISSUE SIMULANT DATA SHEET	40
APPENDIX E - SAR TEST SETUP PHOTOGRAPHS	43
APPENDIX F - SYSTEM VALIDATION	53
APPENDIX G - PROBE CALIBRATION	54
APPENDIX H - SAM PHANTOM CERTIFICATE OF CONFORMITY	55


	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure    SAR	FCC §2.1093	IC RSS-102

## 1.0 INTRODUCTION

This measurement report demonstrates that the UNIDEN AMERICA CORPORATION Model: TRU9460-2(XX) Portable 5.8GHz Cordless Telephone Handset FCC ID: AMWUP758 complies with the SAR (Specific Absorption Rate) RF exposure requirements specified in FCC 47 CFR §2.1093 (see reference [1]), and Health Canada's Safety Code 6 (see reference [2]) for the General Population / Uncontrolled Exposure environment. The test procedures described in FCC OET Bulletin 65, Supplement C, Edition 01-01 (see reference [3]), IEEE Standard 1528-2003 (see reference [4]), and IC RSS-102 Issue 2 (see reference [5]), were employed. A description of the product and operating configuration, detailed summary of the test results, methodology and procedures used in the evaluation, equipment used, and the various provisions of the rules are included within this test report.

## 2.0 DESCRIPTION of DEVICE UNDER TEST (DUT)

FCC Rule Part(s)	47 CFR §2.1093				
IC Rule Part(s)	Health Canada Safety Code 6				
Test Procedure(s)	FCC OET Bulletin 65, Supplement C (01-01)				
	IEEE 1528-2003				
	IC RSS-102 Issue 2				
FCC Device Classification	Digital Transmission System (DTS)			Part 15(C)	
IC Device Classification	Low Power License-Exempt Radiocommunication Device			RSS-210 Issue 6	
Device Description	Portable 5.8GHz Cordless Telephone Handset				
FCC IDENTIFIER	AMWUP758				
IC IDENTIFIER	513C-UP758				
Model No.(s)	TRU9460(XX)				
Test Sample Serial No.	None		Identical Prototype		
Modulation Scheme(s)	TDD		Time Division Duplexing		
	TDMA		Time Division Multiple Access		
Transmission System(s)	WDSS	2 Slots		25% Duty Cycle	Crest Factor: 1:4
	QDSS	4 Slots		12.5% Duty Cycle	Crest Factor: 1:8
Transmitter Frequency Range(s)	5741.056 - 5828.096 MHz				
Max. RF Output Power Levels Calculated from Corrected Field Strengths (Source-Based Time-Averaged)	114.82 mW	20.60 dBm	Free-Space Power	5741.056 MHz	25% Duty Cycle
	96.83 mW	19.86 dBm	Free-Space Power	5784.576 MHz	25% Duty Cycle
	152.05 mW	21.82 dBm	Free-Space Power	5828.096 MHz	25% Duty Cycle
	59.02 mW	17.71 dBm	Free-Space Power	5784.576 MHz	12.5% Duty Cycle
Antenna Type(s) Tested	Internal				
Battery Type(s) Tested	Ni-MH	3.6 V		800 mAh	P/N: BT-446
Body-Worn Accessories Tested	Plastic Belt-Clip				
Audio Accessories Tested	Headset with Boom-Microphone			P/N: TRUC46	

<b>Applicant:</b>	<b>Uniden America Corporation</b>	<b>FCC ID:</b>	<b>AMWUP758</b>	<b>IC ID:</b>	<b>513C-UP758</b>	
<b>Model(s):</b>	<b>TRU9460-2(XX)</b>	<b>Portable 5.8GHz Cordless Telephone Handset</b>		<b>5741.056-5828.096 MHz</b>		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

### 3.0 SAR MEASUREMENT SYSTEM


Celltech Labs Inc. SAR measurement facility utilizes the Dosimetric Assessment System (DASY™) manufactured by Schmid & Partner Engineering AG (SPEAG™) of Zurich, Switzerland. The DASY4 measurement system is comprised of the measurement server, robot controller, computer, near-field probe, probe alignment sensor, specific anthropomorphic mannequin (SAM) phantom, and alternate planar phantoms for brain and/or body SAR evaluations. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF). A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and remote control, is used to drive the robot motors. The Staubli robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the DASY4 measurement server. The DAE4 utilizes a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16-bit AD-converter and a command decoder and control logic unit. Transmission to the DASY4 measurement server is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe-mounting device includes two different sensor systems for frontal and sidewise probe contacts. The sensor systems are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer.



DASY4 SAR Measurement System with SAM phantom & 5GHz Fluid



DASY4 Measurement System with SAM Phantom & 5GHz Fluid

<b>Applicant:</b>	<b>Uniden America Corporation</b>	<b>FCC ID:</b>	<b>AMWUP758</b>	<b>IC ID:</b>	<b>513C-UP758</b>	
<b>Model(s):</b>	<b>TRU9460-2(XX)</b>	<b>Portable 5.8GHz Cordless Telephone Handset</b>		<b>5741.056-5828.096 MHz</b>		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure SAR	FCC §2.1093	IC RSS-102

## MEASUREMENT SUMMARY (Cont.)

Note(s):

- The measurement results were obtained with the DUT tested in the conditions described in this report. Detailed measurement data and plots showing the maximum SAR location of the DUT are reported in Appendix A.
- The reference output power levels were determined prior to the SAR evaluations using the free space power measurement method (calculated from measured corrected field strength levels). The reference output power levels reported are source-based time-averaged power (SBTA).
- If the SAR measurements performed at the mid channel were  $\geq 3$  dB below the SAR limit; SAR evaluation for the low and high channels was optional (per FCC OET Bulletin 65, Supplement C, Edition 01-01 (see reference [3])). Based on the reference output power level measured at the high channel was 2 dB greater than the reference output power level measured at mid channel, a SAR evaluation was also performed at the high channel in the worst-case mid channel test configuration for both the head and body in order to show compliance at the higher power level as shown in the test data tables (Page 6).
- When multiple operating modes exist within the same frequency band and the lower output mode is lower than that in the highest output mode by more than 2 dB, the device was tested in the highest output mode according to Supplement C requirements. The lower output mode was tested in the configuration that resulted in the highest 1-g SAR in the mode with the highest output. The 1-g SAR levels for the highest output mode were less than 0.8 W/kg (October 2005 TCB Council Workshop - see reference [7]).
- The power drifts reported were measured at the reference position of the phantom with low SAR. The drift values shown are very inaccurate due to the SAR value at the reference point is close to the noise floor. The SAR-versus-Time power drift measurement (performed at the peak SAR location) clearly shows that this device did not drift more than  $\pm 5\%$  during each evaluation. It is our engineering judgment that power drift scaling should not be applied in this case (in reference to the Head SAR evaluations).
- The power drifts measured by the DASY4 system for the duration of the SAR evaluations were  $\leq 5\%$  from the start power (in reference to the Body SAR evaluations).
- Secondary peak SAR levels measured within 2 dB of the primary were reported (P = Primary, S = Secondary).
- The DUT battery was fully charged prior to each SAR evaluation.
- The ambient and fluid temperatures were measured prior to, and during, the fluid dielectric parameter checks and the SAR evaluations. The temperatures reported were consistent for all measurement periods.
- The dielectric parameters of the simulated tissue mixtures were measured prior to the SAR evaluations using an ALS-PR-DIEL Dielectric Probe Kit and an HP 8753ET Network Analyzer (see Appendix C).
- The SAR evaluations were performed within 24 hours of the system performance check.

Free-Space Power Measurements				Project Number:		697									
				Company:		Uniden America Corporation				Test Start Date:		30-Nov-05			
				Model:		TRU9460-2(XX)				Test End Date:		01-Dec-05			
Configuration				Polarity	Distance	Carrier Channel	Frequency	Peak Corrected Field Strength	Calculated Peak Carrier Level (Uncorrected for Duty Cycle)		Duty Cycle		Calculated Average Carrier Level (Corrected for Duty Cycle)		
DUT#	Orientation	Battery	Accessory				dBm	dBuV/m	dBuV	mW	%	dB	dBm	mW	
1	Short Edge Up	NiMH	none	H	3	1	5741.0560	121.85	26.62	458.82	25.00	-6.02	20.60	114.82	
1	Short Edge Up	NiMH	none	H	3	18	5784.5760	121.11	25.88	387.51	25.00	-6.02	19.86	96.83	
1	Short Edge Up	NiMH	none	V	3	35	5828.0960	123.07	27.84	607.81	25.00	-6.02	21.82	152.05	
1	Short Edge Up	NiMH	none	V	3	35	5784.5760	121.97	26.74	471.81	12.50	-9.03	17.71	59.02	
Comment: Measurement made at a 3 meter distance, with the EUT placed 1 meter above the ground plane															

<b>Applicant:</b>	<b>Uniden America Corporation</b>	<b>FCC ID:</b>	<b>AMWUP758</b>	<b>IC ID:</b>	<b>513C-UP758</b>		
<b>Model(s):</b>	<b>TRU9460-2(XX)</b>	<b>Portable 5.8GHz Cordless Telephone Handset</b>		<b>5741.056-5828.096 MHz</b>			
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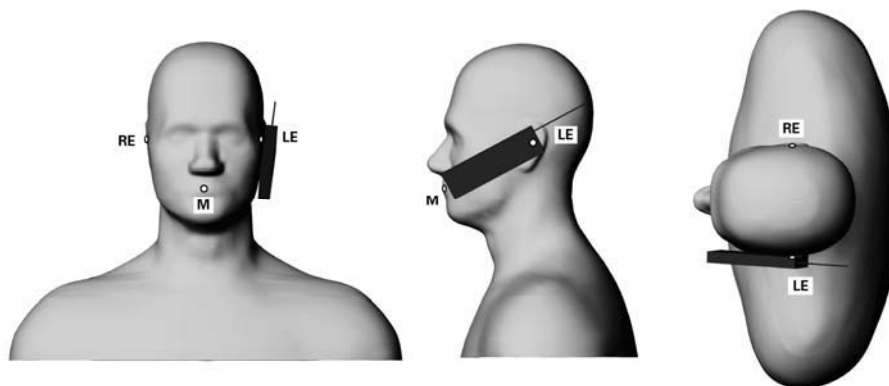
	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure    SAR	FCC §2.1093	IC RSS-102

## 5.0 DETAILS OF SAR EVALUATION

The UNIDEN AMERICA CORPORATION Model: TRU9460-2(XX) Portable 5.8GHz Cordless Telephone Handset FCC ID: AMWUP758 was compliant for localized Specific Absorption Rate (Uncontrolled Exposure) based on the test provisions and conditions described below. The detailed test setup photographs are shown in Appendix E.

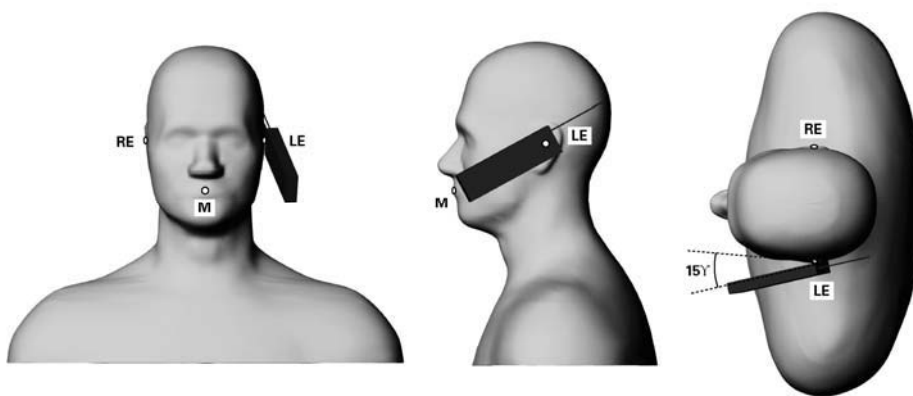
### Ear-held Configuration

- 1) The DUT was tested in an ear-held configuration on both the left and right sections of the SAM phantom at the mid channel of the operating band. If the SAR level at the mid channel of the frequency band for each test configuration (left ear, right ear, cheek/touch, ear/tilt) was  $\geq 3$ dB below the SAR limit, measurements at the low and high channels were optional (per FCC OET Bulletin 65, Supplement C, Edition 01-01 - see reference [3]).
- a) The handset was placed in the device holder in a normal operating position with the test device reference point located along the vertical centerline on the front of the device aligned to the ear reference point, with the center of the earpiece touching the center of the ear spacer of the SAM phantom.
- b) With the handset positioned parallel to the cheek, the test device reference point was aligned to the ear reference point on the head phantom, and the vertical centerline was aligned to the phantom reference plane (initial ear position).
- c) While maintaining the three alignments, the body of the handset was gradually adjusted to each of the following test positions:
  - Cheek/Touch Position: the handset was brought toward the mouth of the head phantom by pivoting against the ear reference point until any point of the mouthpiece or keypad touched the phantom.




**Figure 1. Phone position 1, “cheek” or “touch” position.** The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone positioning, are indicated (Shoulders are shown for illustration only).

- Ear/Tilt Position: With the phone aligned in the Cheek/Touch position, the handset was tilted away from the mouth with respect to the test device reference point by 15 degrees.



**Figure 2. Phone position 2, “tilted position.”** The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone positioning, are indicated (Shoulders are shown for illustration only).

Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure    SAR	FCC §2.1093	IC RSS-102

## DETAILS OF SAR EVALUATION (Cont.)

### Body-worn Configuration

- 2) The DUT was tested in a body-worn configuration with the back of the device placed parallel to the outer surface of the SAM phantom (planar section). The attached plastic belt-clip accessory was touching the outer surface of the SAM phantom (planar section) and provided a 1.6 cm separation distance from the back of the handset to the SAM phantom (planar section).
- 3) A headset audio accessory was connected to the DUT for the duration of the test(s).

### DUT Test Modes & Power Settings

- 4) The DUT was programmed in the test modes described in this report via internal software controlled by the keypad.
- 5) SAR measurements were performed with the DUT transmitting at maximum power in 2 time slots (WDSS mode) on a fixed frequency with a modulated signal and a source-based time-averaged duty cycle of 25% (crest factor: 1:4).
- 6) SAR measurements were performed with the DUT transmitting at maximum power in 4 time slots (QDSS mode) on a fixed frequency with a modulated signal and a source-based time-averaged duty cycle of 12.5% (crest factor: 1:8).
- 7) The conducted power level(s) of the DUT could not be measured for the SAR evaluation due to internal antenna. The DUT was evaluated for SAR at the maximum conducted power level preset by the manufacturer. The RF output power reference levels of the DUT were evaluated prior to the SAR evaluations using the free-space power measurement method (output power calculated from measured field strengths using Celltech Labs' 3-meter OATS in accordance with the measurement procedures described in ANSI TIA/EIA-603-C-2004).

## 6.0 EVALUATION PROCEDURES


- a. (i) The evaluation was performed in the applicable area of the phantom depending on the type of device being tested. For devices held to the ear during normal operation, both the left and right ear positions were evaluated using the SAM phantom.
- (ii) For body-worn and face-held devices a planar phantom was used.
- b. The SAR was determined by a pre-defined procedure within the DASY4 software. Upon completion of a reference and optical surface check, the exposed region of the phantom was scanned near the inner surface with a grid spacing of 15mm x 15mm.

An area scan was determined as follows:

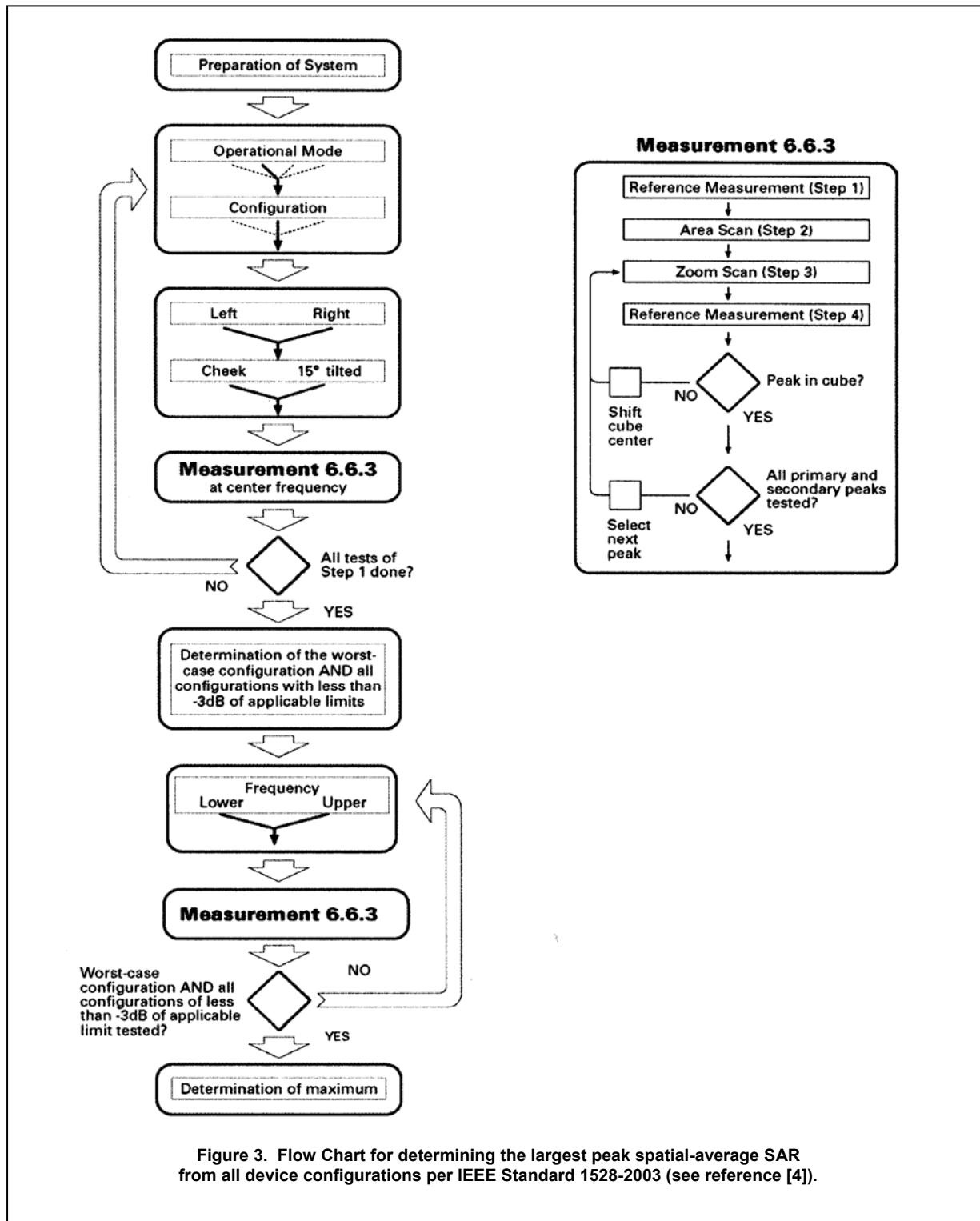
- c. Based on the defined area scan grid, a more detailed grid is created to increase the points by a factor of 10. The interpolation function then evaluates all field values between corresponding measurement points.
- d. A linear search is applied to find all the candidate maxima. Subsequently, all maxima are removed that are >2 dB from the global maximum. The remaining maxima are then used to position the cube scans.

A 1g and 10g spatial peak SAR was determined as follows:

- e. Extrapolation is used to determine the values between the dipole center of the probe and the surface of the phantom. This data cannot be measured because the center of the dipole sensors is 1.0 mm away from the probe tip and the distance between the probe, and the boundary must be larger than 25% of the probe diameter. The probe diameter is 2.4 mm. In the DASY4 software, the distance between the sensor center and phantom surface is set to 2.0 mm. This provides a distance of 1.0 mm between the probe tip and the surface. The extrapolation of the values between the dipole center and the surface of the phantom was based on trivariate quadratics computed from the previously calculated 3D interpolated points nearest the phantom surface.
- f. Interpolated data is used to calculate the average SAR over 1g and 10g cubes by spatially discretizing the entire measured cube. The volume used to determine the averaged SAR is a 1mm grid (42875 interpolated points).
- g. A zoom scan volume of 32 mm x 32 mm x 30 mm (5x5x7 points) centered at the peak SAR location determined from the area scan is used for all zoom scans for devices with a transmit frequency < 800 MHz. Zoom scans for frequencies ≥ 800 MHz are determined with a scan volume of 30 mm x 30 mm x 30 mm (7x7x7 points) to ensure complete capture of the peak spatial-average SAR.

<b>Applicant:</b>	<b>Uniden America Corporation</b>	<b>FCC ID:</b>	<b>AMWUP758</b>	<b>IC ID:</b>	<b>513C-UP758</b>	
<b>Model(s):</b>	<b>TRU9460-2(XX)</b>	<b>Portable 5.8GHz Cordless Telephone Handset</b>		<b>5741.056-5828.096 MHz</b>		
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## EVALUATION PROCEDURES (Cont.)



	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure    SAR	FCC §2.1093	IC RSS-102

## 7.0 SYSTEM PERFORMANCE CHECK

Prior to the SAR evaluation a system check was performed at the planar section of the SAM phantom with a SPEAG D5GHzV2 validation dipole (see Appendix F for system validation procedures). The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using an ALS-PR-DIEL Dielectric Probe Kit and an HP 8753ET Network Analyzer (see Appendix C). A forward power of 250 mW was applied to the dipole and the system was verified to a tolerance of  $\pm 10\%$  (see Appendix B for system performance check test plots). See table at bottom of page for system manufacturer's reference SAR values from the DASY 4 Manual, March 2005 (see reference [6]).

### SYSTEM PERFORMANCE CHECK EVALUATION

Test Date	5.8GHz Equiv. Tissue	SAR 1g (W/kg)			Dielectric Constant $\epsilon_r$			Conductivity $\sigma$ (mho/m)			$\rho$ (Kg/m <sup>3</sup> )	Amb. Temp. (°C)	Fluid Temp. (°C)	Fluid Depth (cm)	Humid. (%)	Barom. Press. (kPa)
		Target	Meas.	Dev.	IEEE Target	Meas.	Dev.	IEEE Target	Meas.	Dev.						
12/1/05	Brain	19.5 $\pm 10\%$	19.6	+0.5%	35.3 $\pm 5\%$	34.5	-2.3%	5.27 $\pm 5\%$	5.15	-2.3%	1000	22.5	22.3	$\geq 15$	30	101.5
12/6/05	Body	18.5 $\pm 10\%$	17.1	-7.6%	48.2 $\pm 5\%$	46.9	-2.7%	6.00 $\pm 5\%$	5.95	-0.8%	1000	23.7	22.5	$\geq 15$	30	103.5

Note(s):

1. The ambient and fluid temperatures were measured prior to, and during, the fluid dielectric parameter check and the system performance check. The temperatures listed in the table above were consistent for all measurement periods.

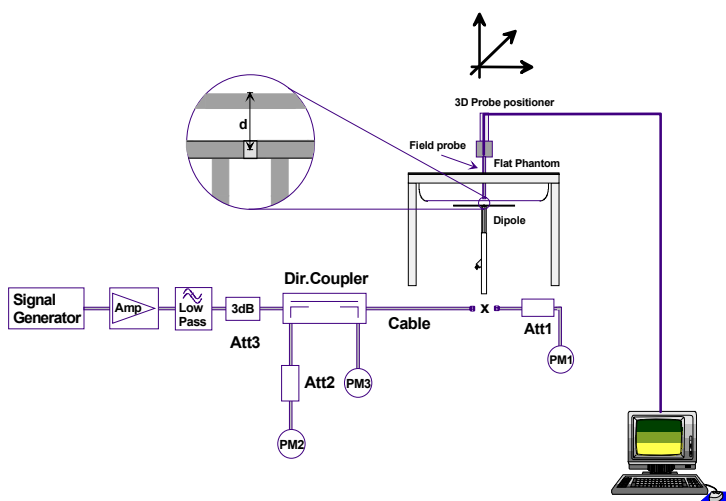


Figure 4. System Performance Check Setup Diagram



5 GHz Dipole Setup




5 GHz Dipole Setup


#### Reference SAR values

The reference SAR values were calculated using finite-difference time-domain FDTD method (feed-point impedance set to 50  $\Omega$ ) and the mechanical dimensions of the D5GHzV2 dipole (manufactured by SPEAG).

f (GHz)	Head Tissue			Body Tissue		
	$SAR_{1g}$	$SAR_{10g}$	$SAR_{peak}$	$SAR_{1g}$	$SAR_{10g}$	$SAR_{peak}$
5.0	72.9	20.7	285.6	68.1	19.2	260.3
5.1	74.6	21.1	297.5	78.8	19.6	272.3
5.2	76.5	21.6	310.3	71.8	20.1	284.7
5.5	83.3	23.4	349.4	79.1	22.0	326.3
5.8	78.0	21.9	340.9	74.1	20.5	324.7


Table 27.2: Numerical reference SAR values for D5GHzV2 dipole and flat phantom.

Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure    SAR	FCC §2.1093	IC RSS-102

## 8.0 SIMULATED EQUIVALENT TISSUES

The 5.8 GHz simulated tissue mixtures provided by the SAR system manufacturer (SPEAG) are listed below. The dielectric parameters of the tissue mixture (permittivity and conductivity) were measured prior to the SAR evaluations. See Appendix D for manufacturer's fluid data sheet.


SIMULATED TISSUE MIXTURES			
INGREDIENT	System Performance Check & DUT Evaluation		
	5.8 GHz Brain	5.8 GHz Body	5 GHz Fluid
Water	64 - 78%	64 - 78%	
Mineral Oil	11 - 18%	11 - 18%	
Emulsifiers	9 - 15%	9 - 15%	
Additives and Salt	2 - 3%	2 - 3%	

## 9.0 SAR SAFETY LIMITS

EXPOSURE LIMITS	SAR (W/kg)	
	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)
Spatial Average (averaged over the whole body)	0.08	0.4
Spatial Peak (averaged over any 1 g of tissue)	1.60	8.0
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0

Notes:

1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.
2. Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.

Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
2005 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				Page 12 of 55

	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

## 10.0 ROBOT SYSTEM SPECIFICATIONS

### Specifications

**POSITIONER:** Stäubli Unimation Corp. Robot Model: RX60L  
**Repeatability:** 0.02 mm  
**No. of axis:** 6

### Data Acquisition Electronic (DAE) System

#### Cell Controller

**Processor:** AMD Athlon XP 2400+  
**Clock Speed:** 2.0 GHz  
**Operating System:** Windows XP Professional

#### Data Converter

**Features:** Signal Amplifier, multiplexer, A/D converter, and control logic  
**Software:** DASY4 software  
**Connecting Lines:** Optical downlink for data and status info.  
 Optical uplink for commands and clock

### DASY4 Measurement Server


**Function:** Real-time data evaluation for field measurements and surface detection  
**Hardware:** PC/104 166MHz Pentium CPU; 32 MB chipdisk; 64 MB RAM  
**Connections:** COM1, COM2, DAE, Robot, Ethernet, Service Interface

### E-Field Probe

**Model:** EX3DV4  
**Serial No.:** 3547  
**Construction:** Symmetrical design with triangular core  
**Frequency:** 10 MHz to 6 GHz  
**Linearity:**  $\pm 0.2$  dB (30 MHz to 3 GHz)

### Phantom(s)

**Type:** SAM V4.0C  
**Shell Material:** Fiberglass  
**Thickness:**  $2.0 \pm 0.1$  mm  
**Volume:** Approx. 25 liters

<b>Applicant:</b>	<b>Uniden America Corporation</b>	<b>FCC ID:</b>	<b>AMWUP758</b>	<b>IC ID:</b>	<b>513C-UP758</b>	
<b>Model(s):</b>	<b>TRU9460-2(XX)</b>	<b>Portable 5.8GHz Cordless Telephone Handset</b>		<b>5741.056-5828.096 MHz</b>		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

## 11.0 PROBE SPECIFICATION (EX3DV4)

Construction:	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g. DGBE)
Calibration:	Basic Broadband Calibration in air: 10-3000 MHz Conversion Factors (CF) for HSL 900 and HSL 1750
Frequency:	10 MHz to >6 GHz; Linearity: $\pm 0.2$ dB (30 MHz to 3 GHz)
Directivity:	$\pm 0.3$ dB in HSL (rotation around probe axis) $\pm 0.5$ dB in tissue material (rotation normal to probe axis)
Dynamic Range:	10 $\mu$ W/g to >100 mW/g; Linearity: $\pm 0.2$ dB (noise: typically < 1 $\mu$ W/g)
Dimensions:	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1.0 mm
Application:	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better than 30%.



EX3DV4 E-Field Probe

## 12.0 SAM PHANTOM V4.0C

The SAM phantom V4.0C is a fiberglass shell phantom with a 2.0 mm (+/-0.2 mm) shell thickness for left and right head and flat planar area integrated in a wooden table. The shape of the fiberglass shell corresponds to the phantom defined by SCC34-SC2. The device holder positions are adjusted to the standard measurement positions in the three sections (see Appendix H for specifications of the SAM phantom V4.0C).




SAM Phantom

## 13.0 DEVICE HOLDER

The DASY4 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections.




Device Holder

Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset	5741.056-5828.096 MHz			
2005 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				Page 14 of 55

	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure    SAR	FCC §2.1093	IC RSS-102

## 14.0 TEST EQUIPMENT LIST

TEST EQUIPMENT		ASSET NO.	SERIAL NO.	DATE CALIBRATED		CALIBRATION DUE DATE
USED	DESCRIPTION					
x	Schmid & Partner DASY4 System	-	-	-		-
x	-DASY4 Measurement Server	00158	1078	N/A		N/A
x	-Robot	00046	599396-01	N/A		N/A
x	-DAE4	00019	353	15Jun05		15Jun06
	-DAE3	00018	370	25Jan05		25Jan06
	-ET3DV6 E-Field Probe	00016	1387	18Mar05		18Mar06
	-ET3DV6 E-Field Probe	00017	1590	20May05		20May06
x	-EX3DV4 E-Field Probe	00125	3547	21Jan05		21Jan06
	-300MHz Validation Dipole	00023	135	25Oct05		25Oct06
	-450MHz Validation Dipole	00024	136	25Oct05		25Oct06
	-835MHz Validation Dipole	00022	411	Brain	30Mar05	30Mar06
				Body	12Apr05	12Apr06
	-900MHz Validation Dipole	00020	054	Brain	10Jun05	10Jun06
				Body	10Jun05	10Jun06
	-1800MHz Validation Dipole	00021	247	Brain	14Jun05	14Jun06
				Body	14Jun05	14Jun06
	-1900MHz Validation Dipole	00032	151	Brain	17Jun05	17Jun06
				Body	22Apr05	22Apr06
	-2450MHz Validation Dipole	00025	150	Brain	20Sep05	20Sep06
				Body	22Apr05	22Apr06
x	-5000MHz Validation Dipole	00126	1031	Brain	11Jan05	11Jan06
x				Body	11Jan05	11Jan06
x	-SAM Phantom V4.0C	00154	1033	N/A		N/A
	-Barski Planar Phantom	00155	03-01	N/A		N/A
	-Plexiglas Side Planar Phantom	00156	161	N/A		N/A
	-Plexiglas Validation Planar Phantom	00157	137	N/A		N/A
	HP 85070C Dielectric Probe Kit	00033	N/A	N/A		N/A
x	ALS-PR-DIEL Dielectric Probe Kit	00160	260-00953	N/A		N/A
x	Gigatronics 8652A Power Meter	00110	1835801	16Apr05		16Apr06
x	Gigatronics 8652A Power Meter	00008	1835267	29Apr05		29Apr06
x	Gigatronics 80701A Power Sensor	00012	1834350	12Sep05		12Sep06
	Gigatronics 80701A Power Sensor	00014	1833699	07Sep05		07Sep06
x	Gigatronics 80701A Power Sensor	00109	1834366	16Apr05		16Apr06
x	HP 8753ET Network Analyzer	00134	US39170292	04May05		04May06
x	HP 8648D Signal Generator	00005	3847A00611	29Apr05		29Apr06
x	Rohde & Schwarz SMR40 Signal Generator	00006	100104	12Apr05		12Apr06
x	Amplifier Research 5S1G4 Power Amplifier	00106	26235	N/A		N/A


<b>Applicant:</b>	<b>Uniden America Corporation</b>	<b>FCC ID:</b>	<b>AMWUP758</b>	<b>IC ID:</b>	<b>513C-UP758</b>	
<b>Model(s):</b>	<b>TRU9460-2(XX)</b>	<b>Portable 5.8GHz Cordless Telephone Handset</b>		<b>5741.056-5828.096 MHz</b>		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

## 15.0 MEASUREMENT UNCERTAINTIES

UNCERTAINTY BUDGET FOR DEVICE EVALUATION						
Error Description	Uncertainty Value ±%	Probability Distribution	Divisor	ci 1g	Uncertainty Value ±% (1g)	V <sub>i</sub> or V <sub>eff</sub>
<b>Measurement System</b>						
Probe calibration	6.8	Normal	1	1	6.8	∞
Axial isotropy of the probe	4.7	Rectangular	1.732050808	0.7	1.9	∞
Spherical isotropy of the probe	9.6	Rectangular	1.732050808	0.7	3.9	∞
Spatial resolution	0	Rectangular	1.732050808	1	0.0	∞
Boundary effects	2	Rectangular	1.732050808	1	1.2	∞
Probe linearity	4.7	Rectangular	1.732050808	1	2.7	∞
Detection limit	1	Rectangular	1.732050808	1	0.6	∞
Readout electronics	0.3	Normal	1	1	0.3	∞
Response time	0.8	Rectangular	1.732050808	1	0.5	∞
Integration time	2.6	Rectangular	1.732050808	1	1.5	∞
RF ambient conditions	3	Rectangular	1.732050808	1	1.7	∞
Mech. constraints of robot	0.8	Rectangular	1.732050808	1	0.5	∞
Probe positioning	5.7	Rectangular	1.732050808	1	3.3	∞
Extrapolation & integration	4	Rectangular	1.732050808	1	2.3	∞
<b>Test Sample Related</b>						
Device positioning	2.9	Normal	1	1	2.9	12
Device holder uncertainty	3.6	Normal	1	1	3.6	8
Power drift	5	Rectangular	1.732050808	1	2.9	∞
<b>Phantom and Setup</b>						
Phantom uncertainty	4	Rectangular	1.732050808	1	2.3	∞
Liquid conductivity (target)	5	Rectangular	1.732050808	0.64	1.8	∞
Liquid conductivity (measured)	2.5	Normal	1	0.64	1.6	∞
Liquid permittivity (target)	5	Rectangular	1.732050808	0.6	1.7	∞
Liquid permittivity (measured)	2.5	Normal	1	0.6	1.5	∞
<b>Combined Standard Uncertainty</b>					<b>11.92</b>	
<b>Expanded Uncertainty (k=2)</b>					<b>23.84</b>	

Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003 (see reference [4])


<b>Applicant:</b>	<b>Uniden America Corporation</b>	<b>FCC ID:</b>	<b>AMWUP758</b>	<b>IC ID:</b>	<b>513C-UP758</b>	
<b>Model(s):</b>	<b>TRU9460-2(XX)</b>	<b>Portable 5.8GHz Cordless Telephone Handset</b>		<b>5741.056-5828.096 MHz</b>		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

## MEASUREMENT UNCERTAINTIES (Cont.)

UNCERTAINTY BUDGET FOR SYSTEM VALIDATION						
Error Description	Uncertainty Value ±%	Probability Distribution	Divisor	ci 1g	Uncertainty Value ±% (1g)	V <sub>i</sub> or V <sub>eff</sub>
<b>Measurement System</b>						
Probe calibration	6.8	Normal	1	1	6.8	∞
Axial isotropy of the probe	4.7	Rectangular	1.732050808	1	2.7	∞
Spherical isotropy of the probe	9.6	Rectangular	1.732050808	1	5.5	∞
Spatial resolution	0	Rectangular	1.732050808	1	0.0	∞
Boundary effects	2	Rectangular	1.732050808	1	1.2	∞
Probe linearity	4.7	Rectangular	1.732050808	1	2.7	∞
Detection limit	1	Rectangular	1.732050808	1	0.6	∞
Readout electronics	0.3	Normal	1	1	0.3	∞
Response time	0	Rectangular	1.732050808	1	0.0	∞
Integration time	0	Rectangular	1.732050808	1	0.0	∞
RF ambient conditions	3	Rectangular	1.732050808	1	1.7	∞
RF Ambient Reflections	3	Rectangular	1.732050808	1	1.7	∞
Mech. constraints of robot	0.8	Rectangular	1.732050808	1	0.5	∞
Probe positioning	9.9	Rectangular	1.732050808	1	5.7	∞
Extrapolation & integration	4	Rectangular	1.732050808	1	2.3	∞
<b>Dipole</b>						
Device positioning	2	Rectangular	1.732050808	1	1.2	∞
Power & Power Drift	4.7	Rectangular	1.732050808	1	2.7	∞
<b>Phantom and Setup</b>						
Phantom uncertainty	4	Rectangular	1.732050808	1	2.3	∞
Liquid conductivity (target)	5	Rectangular	1.732050808	0.64	1.8	∞
Liquid conductivity (measured)	2.5	Normal	1	0.64	1.6	∞
Liquid permittivity (target)	5	Rectangular	1.732050808	0.6	1.7	∞
Liquid permittivity (measured)	2.5	Normal	1	0.6	1.5	∞
<b>Combined Standard Uncertainty</b>					<b>12.65</b>	
<b>Expanded Uncertainty (k=2)</b>					<b>25.29</b>	


Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003 (see reference [4])

<b>Applicant:</b>	<b>Uniden America Corporation</b>	<b>FCC ID:</b>	<b>AMWUP758</b>	<b>IC ID:</b>	<b>513C-UP758</b>	
<b>Model(s):</b>	<b>TRU9460-2(XX)</b>	<b>Portable 5.8GHz Cordless Telephone Handset</b>		<b>5741.056-5828.096 MHz</b>		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

## 16.0 REFERENCES


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- [2] Health Canada, "Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz", Safety Code 6:1999.
- [3] Federal Communications Commission, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields", OET Bulletin 65, Supplement C (Edition 01-01), FCC, Washington, D.C.: June 2001.
- [4] IEEE Standard 1528-2003, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques": December 2003.
- [5] Industry Canada, "Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)", Radio Standards Specification RSS-102 Issue 2: November 2005.
- [6] Schmid & Partner Engineering AG, "DASY4 Manual V4.5": March 2005.
- [7] TCB Council Workshop, "FCC - TCB Training on SAR Review - Handsets and Hand-helds": October 2005.

Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

## APPENDIX A - SAR MEASUREMENT DATA

Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

Date Tested: 12/01/2005

# Head SAR - Right Ear - Cheek/Touch Position - WDSS Mode - 25% Duty Cycle - Mid Channel

**DUT: Uniden Model: TRU9460-2(XX); Type: 5.8GHz Cordless Telephone Handset; Serial: None (Identical Prototype)**

Ambient Temp: 22.7 °C; Fluid Temp: 22.1 °C; Barometric Pressure: 101.2 kPa; Humidity: 30%

Communication System: TTD/TDMA

RF Output Power: 96.83 mW (Free-Space)

3.6V, 800mAh NiMH Battery Pack (P/N: BT-446)

Frequency: 5784.576 MHz; Channel 18; Duty Cycle: 1:4

Medium: HSL5200-5800 ( $\sigma = 5.15 \text{ mho/m}$ ;  $\epsilon_r = 34.5$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: EX3DV4 - SN3547; ConvF(4.71, 4.71, 4.71); Calibrated: 21/01/2005
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 15/06/2005
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

## Head SAR - Right Ear - Cheek/Touch Position - Mid Channel/Area Scan (9x20x1):

Measurement grid: dx=10mm, dy=10mm

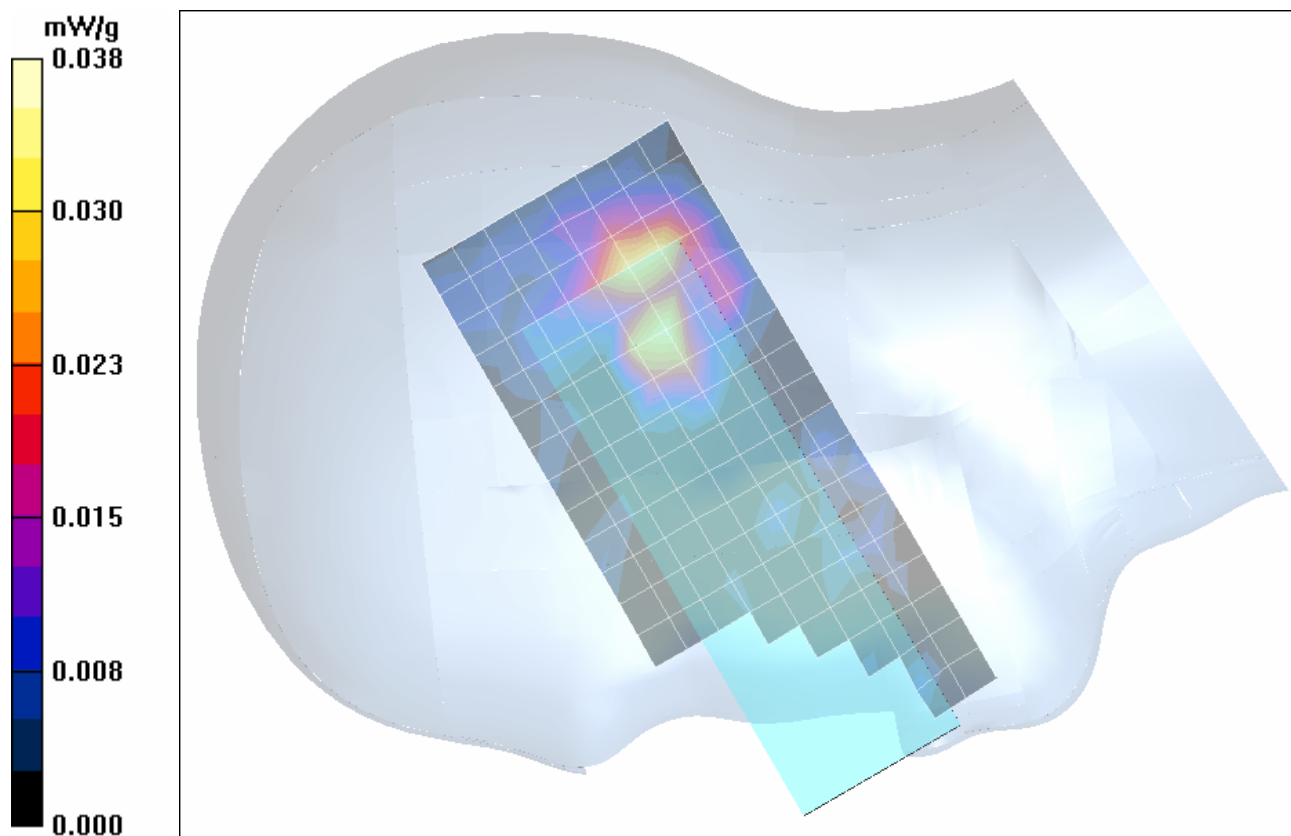
## Head SAR - Right Ear - Cheek/Touch Position - Mid Channel/Zoom Scan (8x8x8)/Cube 0:


Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 2.72 V/m; Power Drift = 0.895 dB

Peak SAR (extrapolated) = 0.170 W/kg

**SAR(1 g) = 0.0184 mW/g; SAR(10 g) = 0.00535 mW/g**



Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

Date Tested: 12/01/2005

## Head SAR - Right Ear - Tilt Position (15°) - WDSS Mode - 25% Duty Cycle - Mid Channel

**DUT: Uniden Model: TRU9460-2(XX); Type: 5.8GHz Cordless Telephone Handset; Serial: None (Identical Prototype)**

Ambient Temp: 22.7 °C; Fluid Temp: 22.1 °C; Barometric Pressure: 101.2 kPa; Humidity: 30%

Communication System: TTD/TDMA

RF Output Power: 96.83 mW (Free-Space)

3.6V, 800mAh NiMH Battery Pack (P/N: BT-446)

Frequency: 5784.576 MHz; Channel 18; Duty Cycle: 1:4

Medium: HSL5200-5800 ( $\sigma = 5.15 \text{ mho/m}$ ;  $\epsilon_r = 34.5$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: EX3DV4 - SN3547; ConvF(4.71, 4.71, 4.71); Calibrated: 21/01/2005
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 15/06/2005
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

### Head SAR - Right Ear - Tilt Position (15°) - Mid Channel/Area Scan (9x20x1):

Measurement grid: dx=10mm, dy=10mm

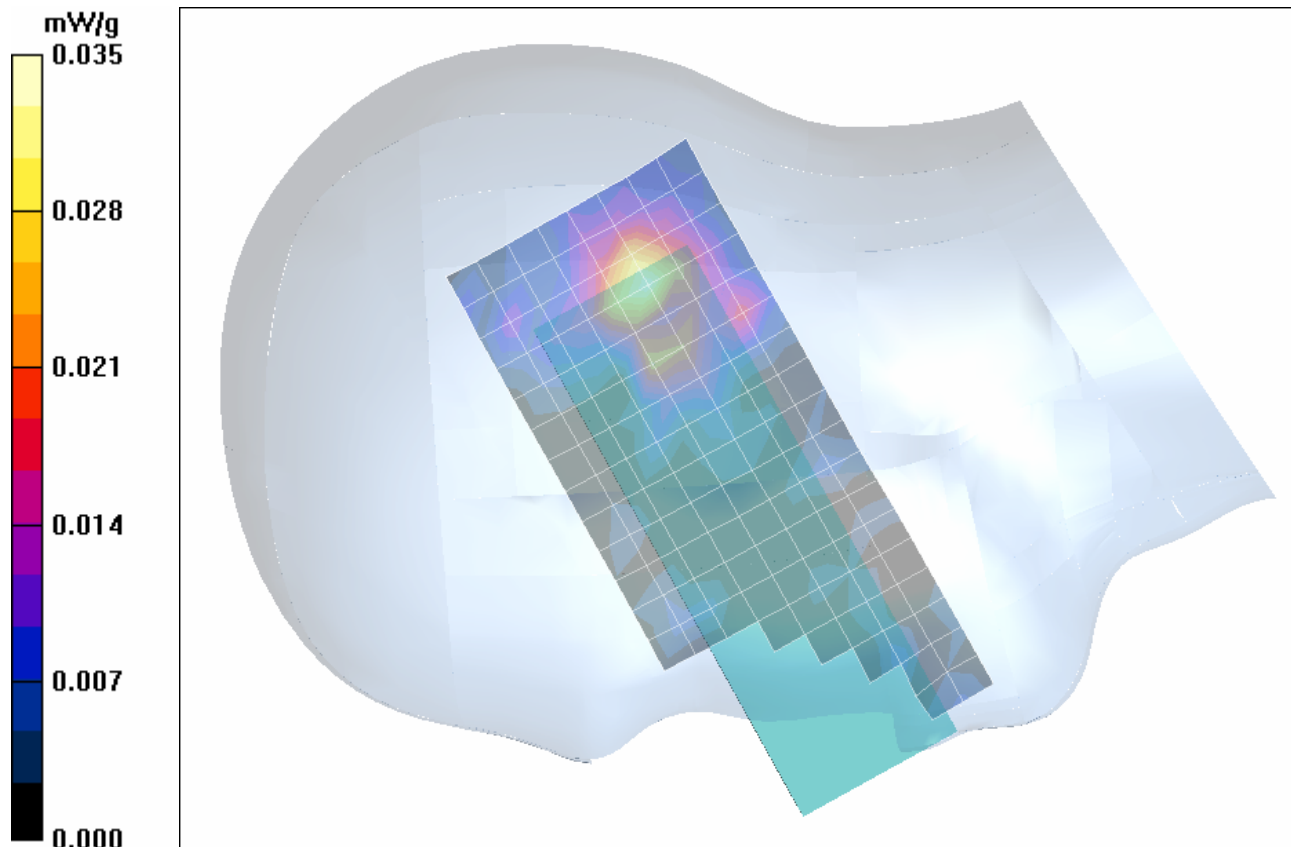
### Head SAR - Right Ear - Tilt Position (15°) - Mid Channel/Zoom Scan (8x8x8)/Cube 0:


Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm


Reference Value = 3.46 V/m; Power Drift = -0.417 dB

Peak SAR (extrapolated) = 0.119 W/kg

**SAR(1 g) = 0.0166 mW/g; SAR(10 g) = 0.00544 mW/g**



Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

Date Tested: 12/01/2005

# **Head SAR - Left Ear - Cheek/Touch Position - WDSS Mode - 25% Duty Cycle - Mid Channel**

**DUT: Uniden Model: TRU9460-2(XX); Type: 5.8GHz Cordless Telephone Handset; Serial: None (Identical Prototype)**

Ambient Temp: 22.7 °C; Fluid Temp: 22.1 °C; Barometric Pressure: 101.2 kPa; Humidity: 30%

Communication System: TTD/TDMA  
RF Output Power: 96.83 mW (Free-Space)  
3.6V, 800mAh NiMH Battery Pack (P/N: BT-446)  
Frequency: 5784.576 MHz; Channel 18; Duty Cycle: 1:4  
Medium: HSL5200-5800 ( $\sigma = 5.15 \text{ mho/m}$ ;  $\epsilon_r = 34.5$ ;  $\rho = 1000 \text{ kg/m}^3$ )

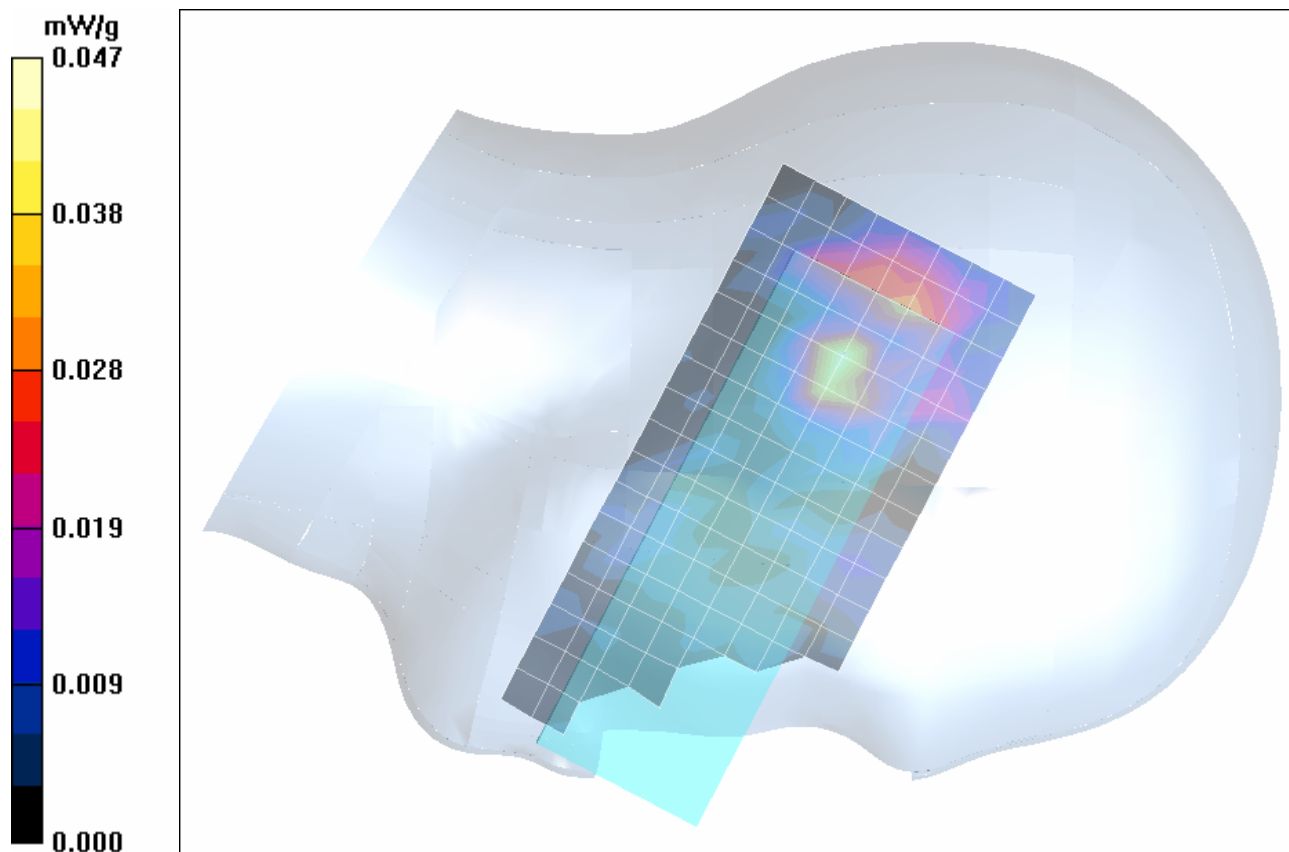
- Probe: EX3DV4 - SN3547; ConvF(4.71, 4.71, 4.71); Calibrated: 21/01/2005
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 15/06/2005
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159


## **Head SAR - Left Ear - Cheek/Touch Position - Mid Channel/Area Scan (9x20x1):**

Measurement grid: dx=10mm, dy=10mm

## **Head SAR - Left Ear - Cheek/Touch Position - Mid Channel/Zoom Scan (8x8x8)/Cube 0:**

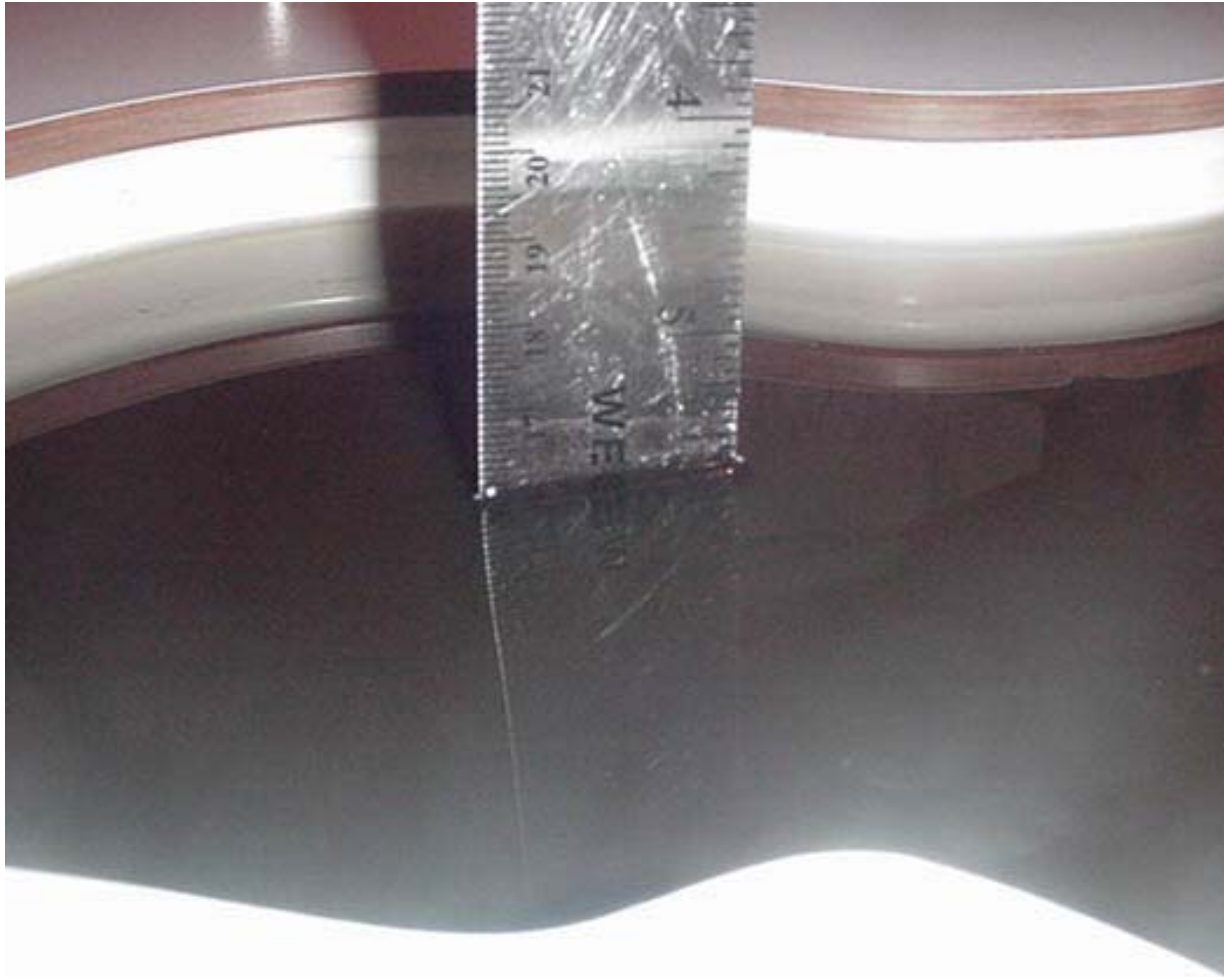
Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm  
Reference Value = 3.44 V/m; Power Drift = -0.893 dB  
Peak SAR (extrapolated) = 0.206 W/kg  
**SAR(1 g) = 0.0232 mW/g; SAR(10 g) = 0.00664 mW/g**




Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

## Fluid Depth (>15cm)



Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

Date Tested: 12/01/2005

## Head SAR - Left Ear - Tilt Position (15°) - WDSS Mode - 25% Duty Cycle - Mid Channel

**DUT: Uniden Model: TRU9460-2(XX); Type: 5.8GHz Cordless Telephone Handset; Serial: None (Identical Prototype)**

Ambient Temp: 22.7 °C; Fluid Temp: 22.1 °C; Barometric Pressure: 101.2 kPa; Humidity: 30%

Communication System: TTD/TDMA

RF Output Power: 96.83 mW (Free-Space)

3.6V, 800mAh NiMH Battery Pack (P/N: BT-446)

Frequency: 5784.576 MHz; Channel 18; Duty Cycle: 1:4

Medium: HSL5200-5800 ( $\sigma = 5.15$  mho/m;  $\epsilon_r = 34.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: EX3DV4 - SN3547; ConvF(4.71, 4.71, 4.71); Calibrated: 21/01/2005
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 15/06/2005
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

### Head SAR - Left Ear - Tilt Position (15°) - Mid Channel/Area Scan (9x20x1):

Measurement grid: dx=10mm, dy=10mm

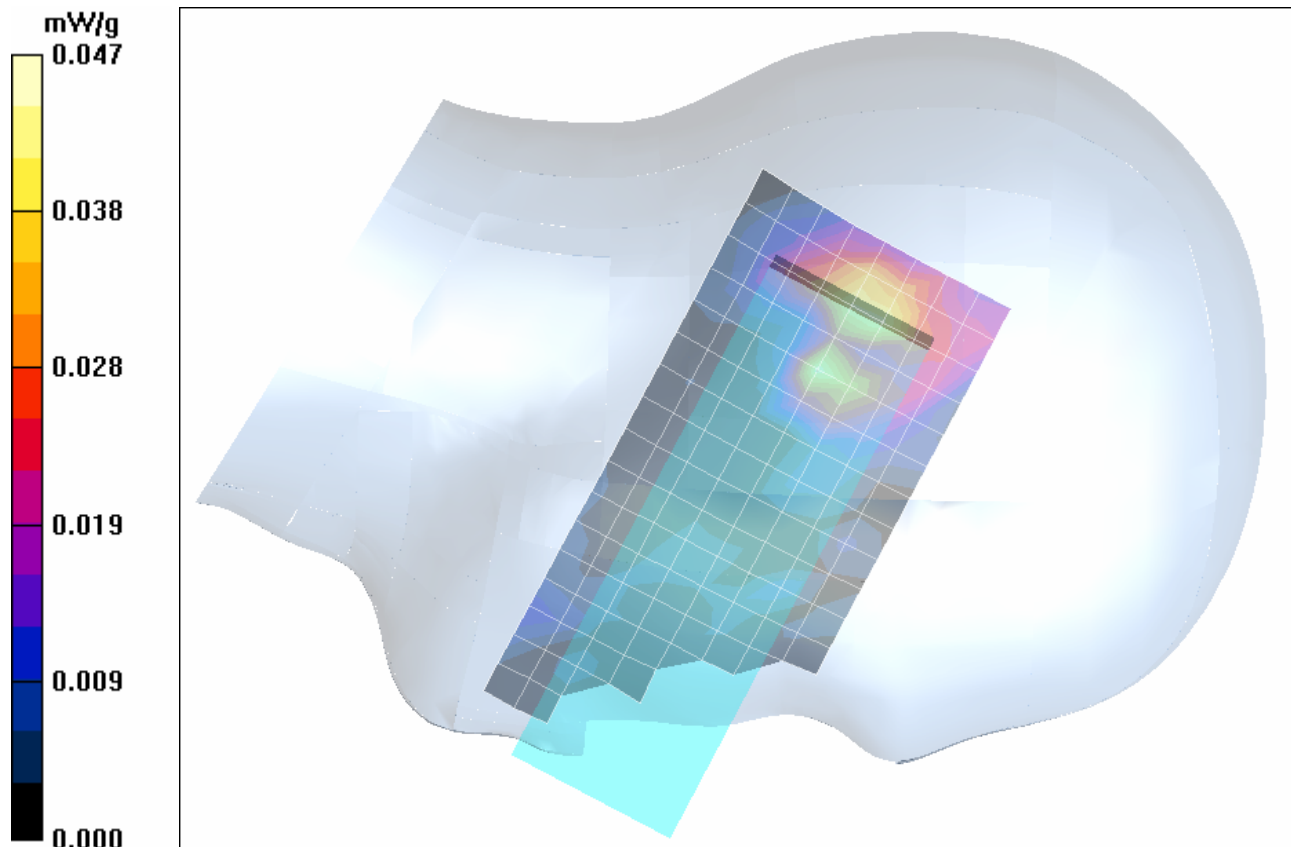
### Head SAR - Left Ear - Tilt Position (15°) - Mid Channel/Zoom Scan (8x8x8)/Cube 0:


Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 3.30 V/m; Power Drift = -0.0814 dB

Peak SAR (extrapolated) = 0.169 W/kg

**SAR(1 g) = 0.0202 mW/g; SAR(10 g) = 0.00688 mW/g**



<b>Applicant:</b>	<b>Uniden America Corporation</b>	<b>FCC ID:</b>	<b>AMWUP758</b>	<b>IC ID:</b>	<b>513C-UP758</b>	
<b>Model(s):</b>	<b>TRU9460-2(XX)</b>	<b>Portable 5.8GHz Cordless Telephone Handset</b>		<b>5741.056-5828.096 MHz</b>		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

Date Tested: 12/01/2005

## Head SAR - Left Ear - Cheek/Touch Position - WDSS Mode - 25% Duty Cycle - High Channel

**DUT: Uniden Model: TRU9460-2(XX); Type: 5.8GHz Cordless Telephone Handset; Serial: None (Identical Prototype)**

Ambient Temp: 22.7 °C; Fluid Temp: 22.1 °C; Barometric Pressure: 101.2 kPa; Humidity: 30%

Communication System: TTD/TDMA

RF Output Power: 152.05 mW (Free-Space)

3.6V, 800mAh NiMH Battery Pack (P/N: BT-446)

Frequency: 5828.096 MHz; Channel 35; Duty Cycle: 1:4

Medium: HSL5200-5800 ( $\sigma = 5.15 \text{ mho/m}$ ;  $\epsilon_r = 34.5$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: EX3DV4 - SN3547; ConvF(4.71, 4.71, 4.71); Calibrated: 21/01/2005
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 15/06/2005
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

### Head SAR - Left Ear - Cheek/Touch Position - High Channel/Area Scan (9x20x1):

Measurement grid: dx=10mm, dy=10mm

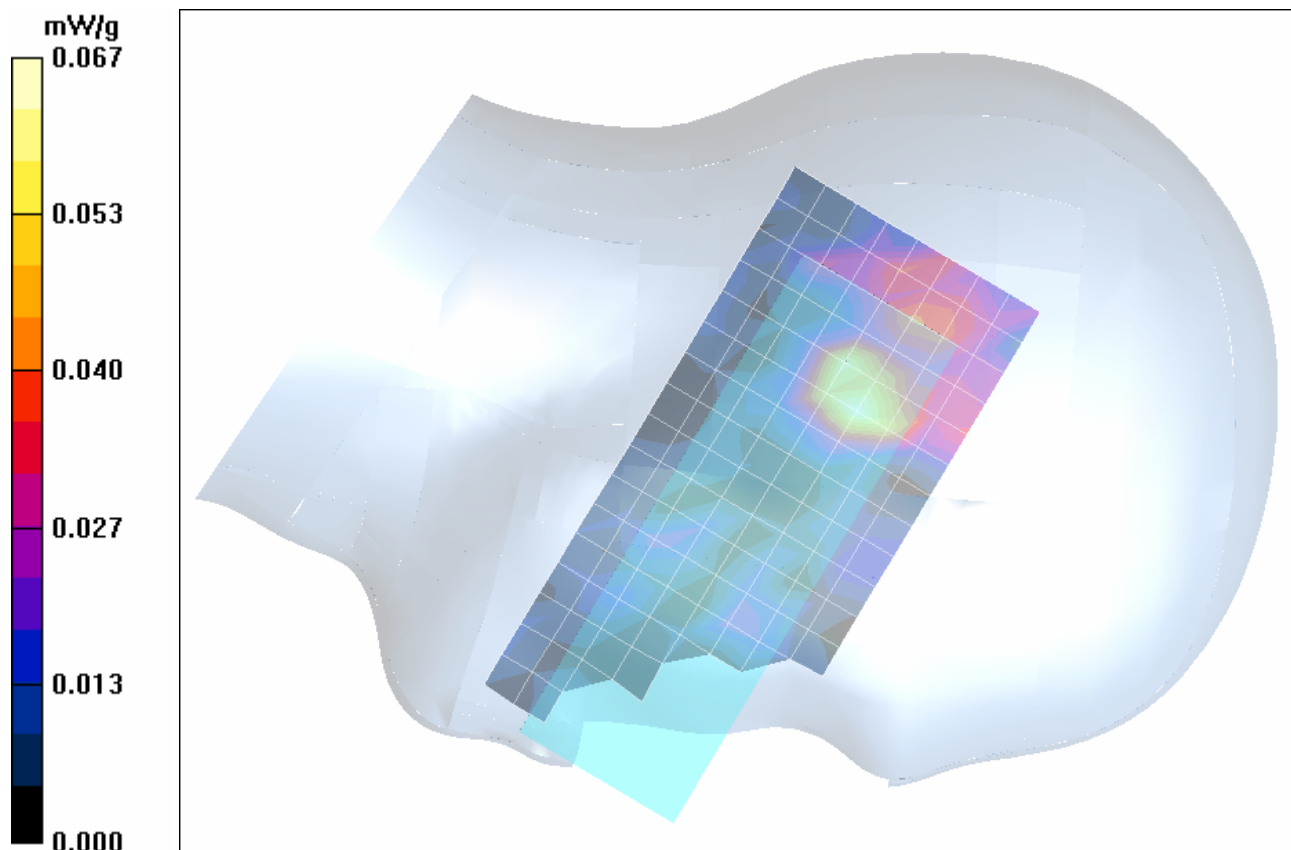
### Head SAR - Left Ear - Cheek/Touch Position - High Channel/Zoom Scan (8x8x8)/Cube 0:


Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 3.07 V/m; Power Drift = 0.673 dB

Peak SAR (extrapolated) = 0.211 W/kg

**SAR(1 g) = 0.0224 mW/g; SAR(10 g) = 0.00697 mW/g**



Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure    SAR	FCC §2.1093	IC RSS-102

Date Tested: 12/07/2005

## Body-Worn SAR - Back Side of DUT - WDSS Mode - 25% Duty Cycle - Mid Channel

**DUT: Uniden Model: TRU9460-2(XX); Type: 5.8GHz Cordless Telephone Handset; Serial: None (Identical Prototype)**

**Body-Worn Accessory: Plastic Belt-Clip; Audio Accessory: Headset (P/N: TRUC46)**

Ambient Temp: 23.1 °C; Fluid Temp: 22.1 °C; Barometric Pressure: 103.4 kPa; Humidity: 30%

Communication System: TTD/TDMA

RF Output Power: 96.83 mW (Free-Space)

3.6V, 800mAh NiMH Battery Pack (P/N: BT-446)

Frequency: 5784.576 MHz; Channel 18; Duty Cycle: 1:4

Medium: M5200-5800 ( $\sigma = 5.79$  mho/m;  $\epsilon_r = 46.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: EX3DV4 - SN3547; ConvF(4.59, 4.59, 4.59); Calibrated: 21/01/2005
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 15/06/2005
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

### Body SAR - 1.6 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel/Area Scan (9x20x1):

Measurement grid: dx=10mm, dy=10mm

### Body SAR - 1.6 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel/Zoom Scan (8x8x8)/Cube 0:

Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 13.5 V/m; Power Drift = -0.0383 dB

Peak SAR (extrapolated) = 1.65 W/kg

**SAR(1 g) = 0.473 mW/g; SAR(10 g) = 0.197 mW/g**

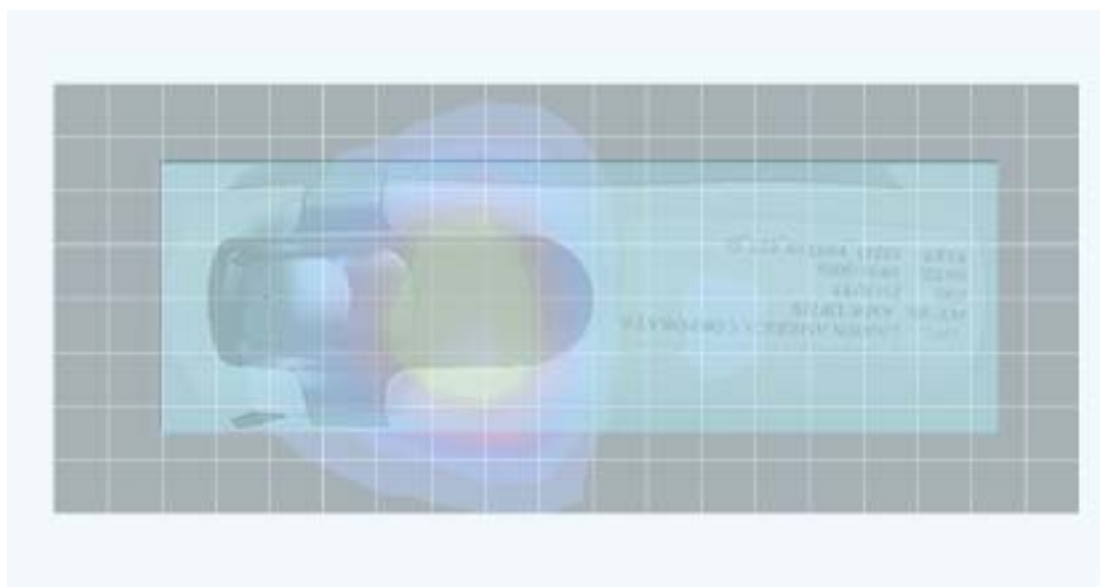
### Body SAR - 1.6 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel/Zoom Scan (8x8x8)/Cube 1:


Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 13.5 V/m; Power Drift = -0.0383 dB

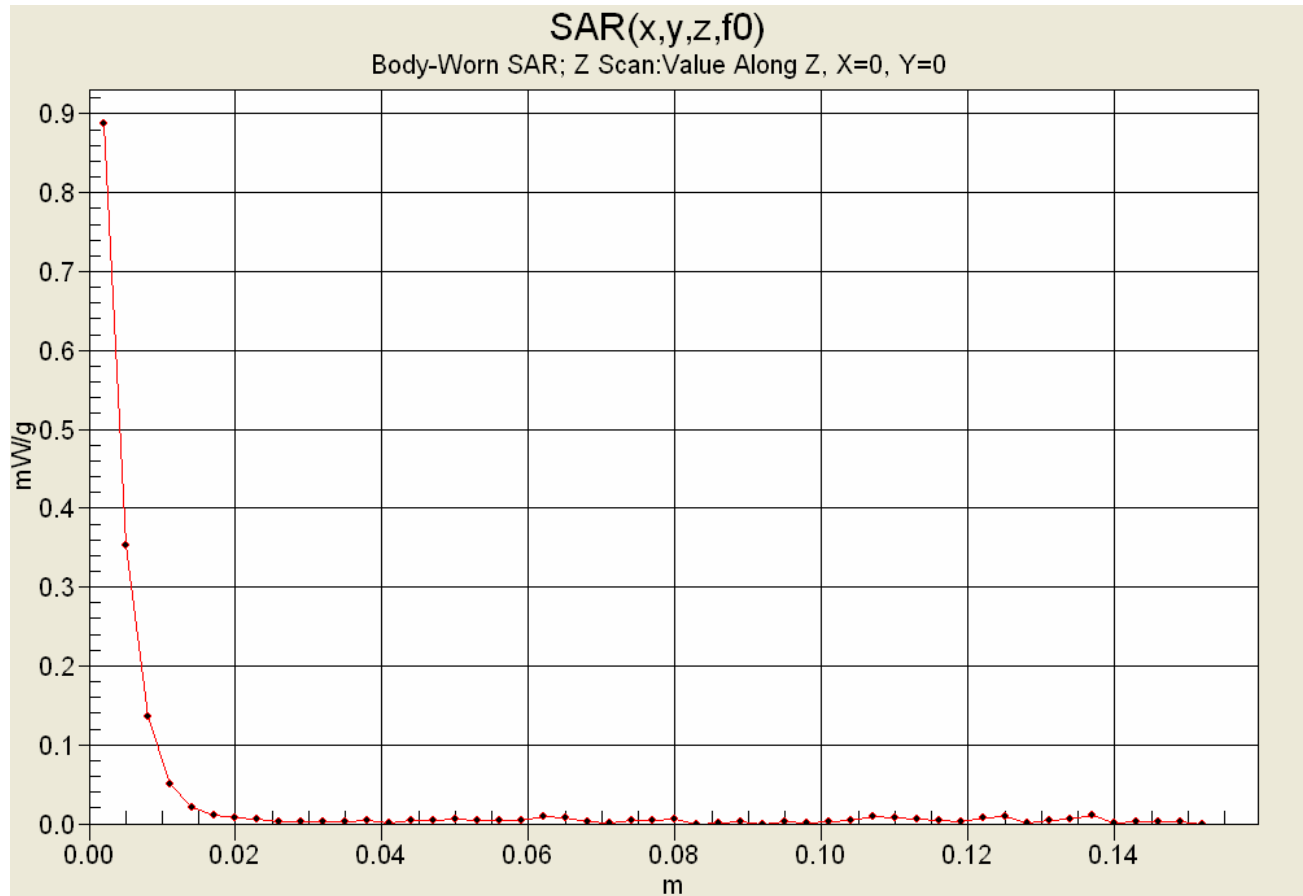
Peak SAR (extrapolated) = 1.54 W/kg

**SAR(1 g) = 0.432 mW/g; SAR(10 g) = 0.182 mW/g**



Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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## Z-Axis Scan



	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure    SAR	FCC §2.1093	IC RSS-102

## Fluid Depth (>15cm)





	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure    SAR	FCC §2.1093	IC RSS-102

Date Tested: 12/07/2005

## Body-Worn SAR - Back Side of DUT - WDSS Mode - 25% Duty Cycle - High Channel

**DUT: Uniden Model: TRU9460-2(XX); Type: 5.8GHz Cordless Telephone Handset; Serial: None (Identical Prototype)**

**Body-Worn Accessory: Plastic Belt-Clip; Audio Accessory: Headset (P/N: TRUC46)**

Ambient Temp: 23.1 °C; Fluid Temp: 22.1 °C; Barometric Pressure: 103.4 kPa; Humidity: 30%

Communication System: TTD/TDMA  
 RF Output Power: 152.05 mW (Free-Space)  
 3.6V, 800mAh NiMH Battery Pack (P/N: BT-446)  
 Frequency: 5828.096 MHz; Channel 35; Duty Cycle: 1:4  
 Medium: M5200-5800 ( $\sigma = 5.79 \text{ mho/m}$ ;  $\epsilon_r = 46.2$ ;  $\rho = 1000 \text{ kg/m}^3$ )

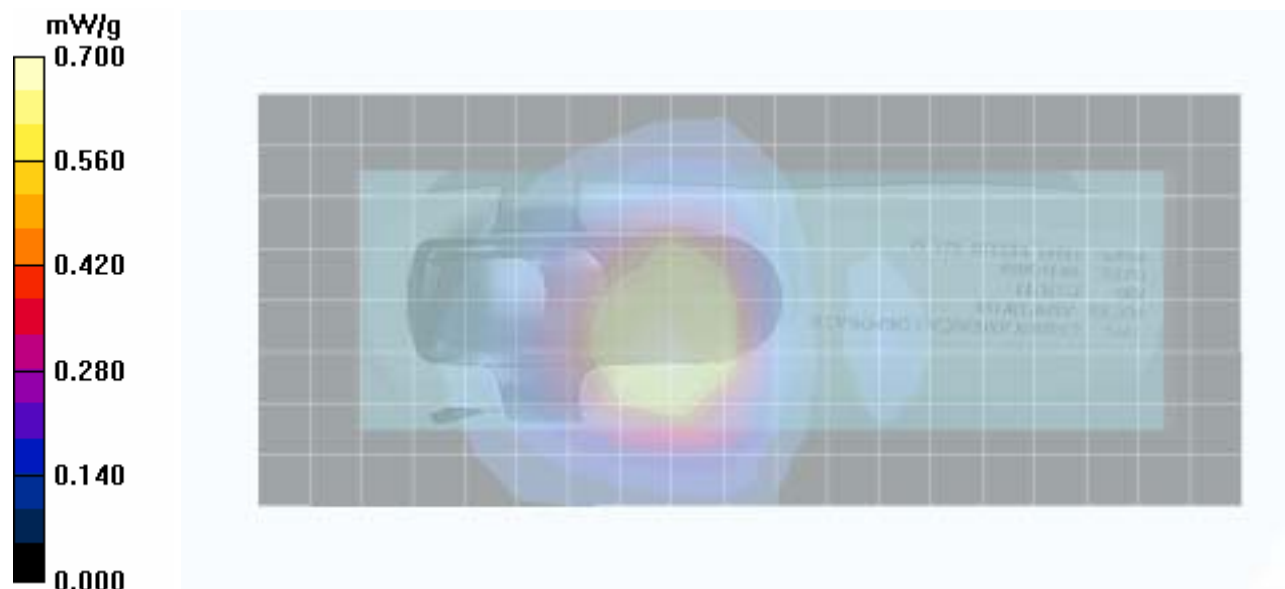
- Probe: EX3DV4 - SN3547; ConvF(4.59, 4.59, 4.59); Calibrated: 21/01/2005
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 15/06/2005
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159


### Body SAR - 1.6 cm Belt-Clip Separation Distance to Planar Phantom - High Channel/Area Scan (9x20x1):

Measurement grid: dx=10mm, dy=10mm

### Body SAR - 1.6 cm Belt-Clip Separation Distance to Planar Phantom - High Channel/Zoom Scan (8x8x8)/Cube 0:

Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm  
 Reference Value = 11.9 V/m; Power Drift = -0.149 dB  
 Peak SAR (extrapolated) = 1.33 W/kg  
**SAR(1 g) = 0.381 mW/g; SAR(10 g) = 0.164 mW/g**



Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure    SAR	FCC §2.1093	IC RSS-102

Date Tested: 12/07/2005

## Body-Worn SAR - Back Side of DUT - QDSS Mode - 12.5% Duty Cycle - Mid Channel

**DUT: Uniden Model: TRU9460-2(XX); Type: 5.8GHz Cordless Telephone Handset; Serial: None (Identical Prototype)**

**Body-Worn Accessory: Plastic Belt-Clip; Audio Accessory: Headset (P/N: TRUC46)**

Ambient Temp: 23.1 °C; Fluid Temp: 22.1 °C; Barometric Pressure: 103.4 kPa; Humidity: 30%

Communication System: TTD/TDMA

RF Output Power: 59.02 mW (Free-Space)

3.6V, 800mAh NiMH Battery Pack (P/N: BT-446)

Frequency: 5784.576 MHz; Channel 18; Duty Cycle: 1:8

Medium: M5200-5800 ( $\sigma = 5.79$  mho/m;  $\epsilon_r = 46.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: EX3DV4 - SN3547; ConvF(4.59, 4.59, 4.59); Calibrated: 21/01/2005
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 15/06/2005
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

### Body SAR - 1.6 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel/Area Scan (9x20x1):

Measurement grid: dx=10mm, dy=10mm

### Body SAR - 1.6 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel/Zoom Scan (8x8x8)/Cube 0:

Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 10.9 V/m; Power Drift = -0.210 dB

Peak SAR (extrapolated) = 1.08 W/kg

**SAR(1 g) = 0.317 mW/g; SAR(10 g) = 0.136 mW/g**

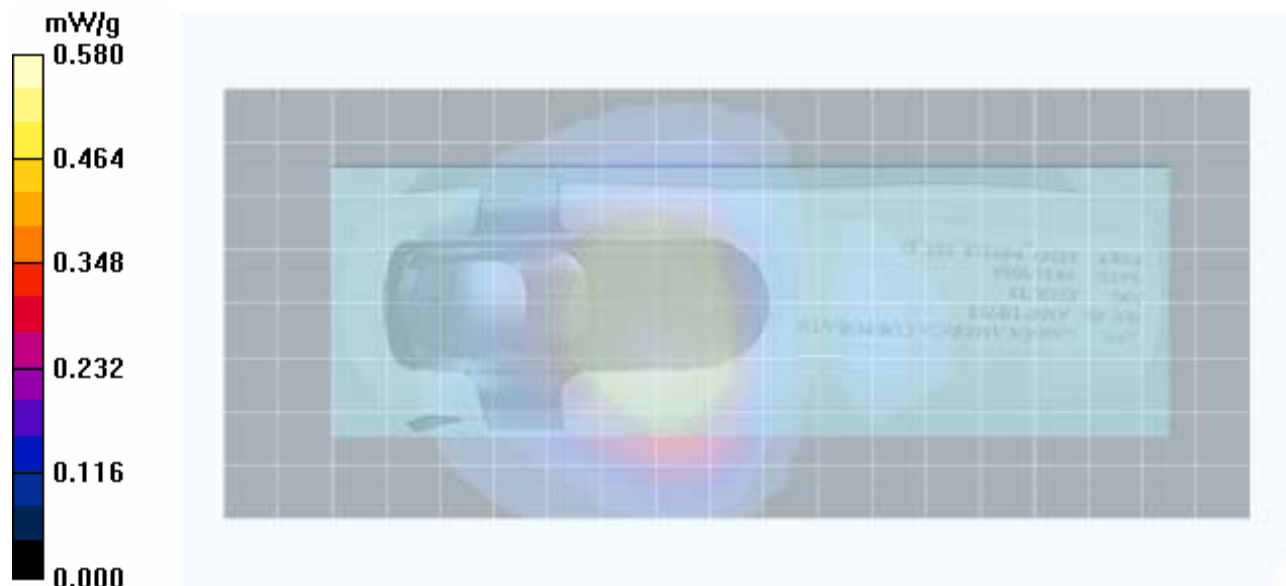
### Body SAR - 1.6 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel/Zoom Scan (8x8x8)/Cube 1:


Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 10.9 V/m; Power Drift = -0.210 dB

Peak SAR (extrapolated) = 0.987 W/kg


**SAR(1 g) = 0.287 mW/g; SAR(10 g) = 0.126 mW/g**




Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

## APPENDIX B - SYSTEM PERFORMANCE CHECK DATA

Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

Date Tested: 12/01/2005

## System Performance Check (Brain) - 5800 MHz Dipole

**DUT: Dipole 5GHz; Model: D5GHzV2; Type: System Performance Check; Serial: 1031; Calibrated: 01/11/2005**

Ambient Temp: 22.5 °C; Fluid Temp: 22.3 °C; Barometric Pressure: 101.5 kPa; Humidity: 30%

Communication System: CW

Forward Conducted Power: 250 mW

Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: HSL5200-5800 ( $\sigma = 5.15 \text{ mho/m}$ ;  $\epsilon_r = 34.5$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: EX3DV4 - SN3547; ConvF(4.71, 4.71, 4.71); Calibrated: 21/01/2005
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 15/06/2005
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

### 5800 MHz Dipole - System Performance Check/Area Scan (9x13x1):

Measurement grid: dx=5mm, dy=5mm

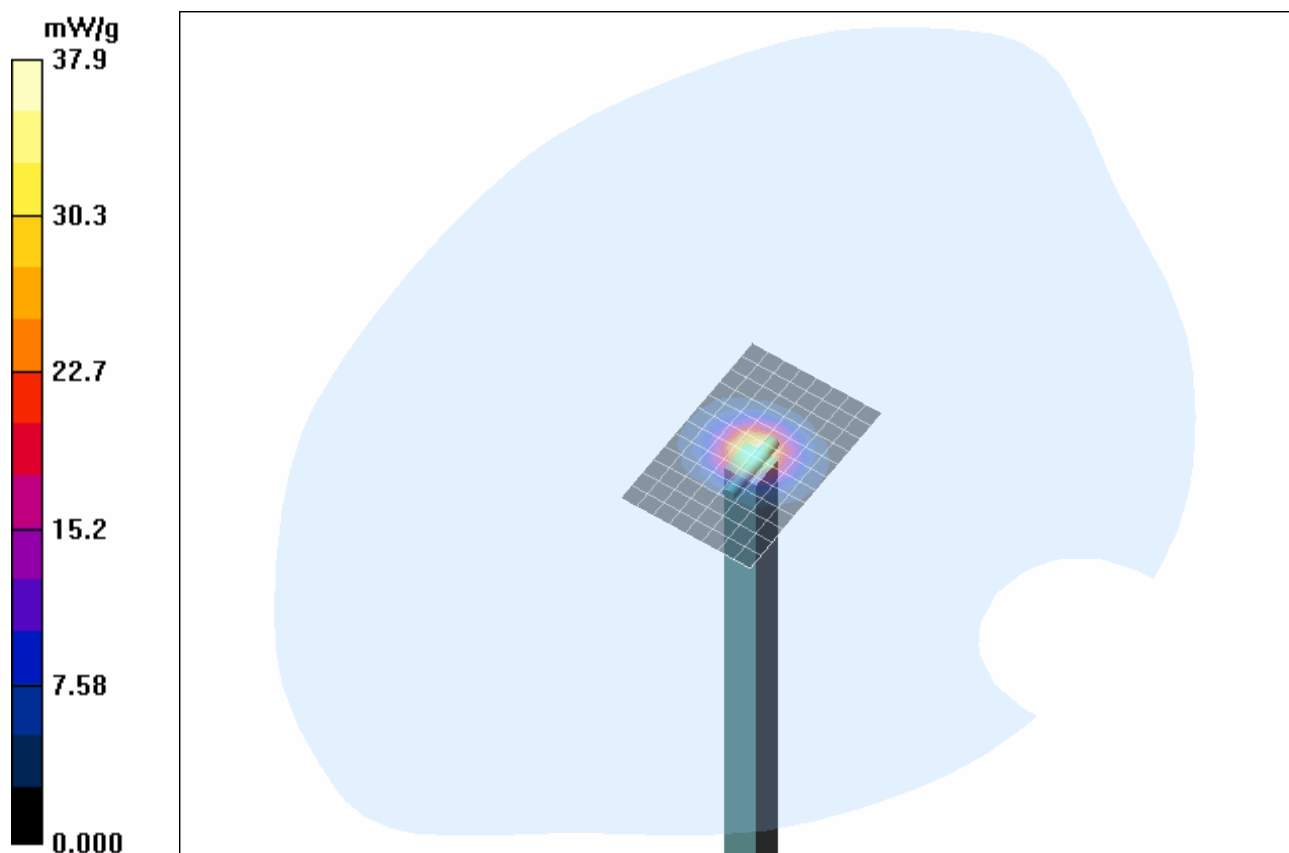
### 5800 MHz Dipole - System Performance Check/Zoom Scan 2 (8x8x8)/Cube 0:


Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 97.5 V/m; Power Drift = 0.055 dB

Peak SAR (extrapolated) = 80.9 W/kg

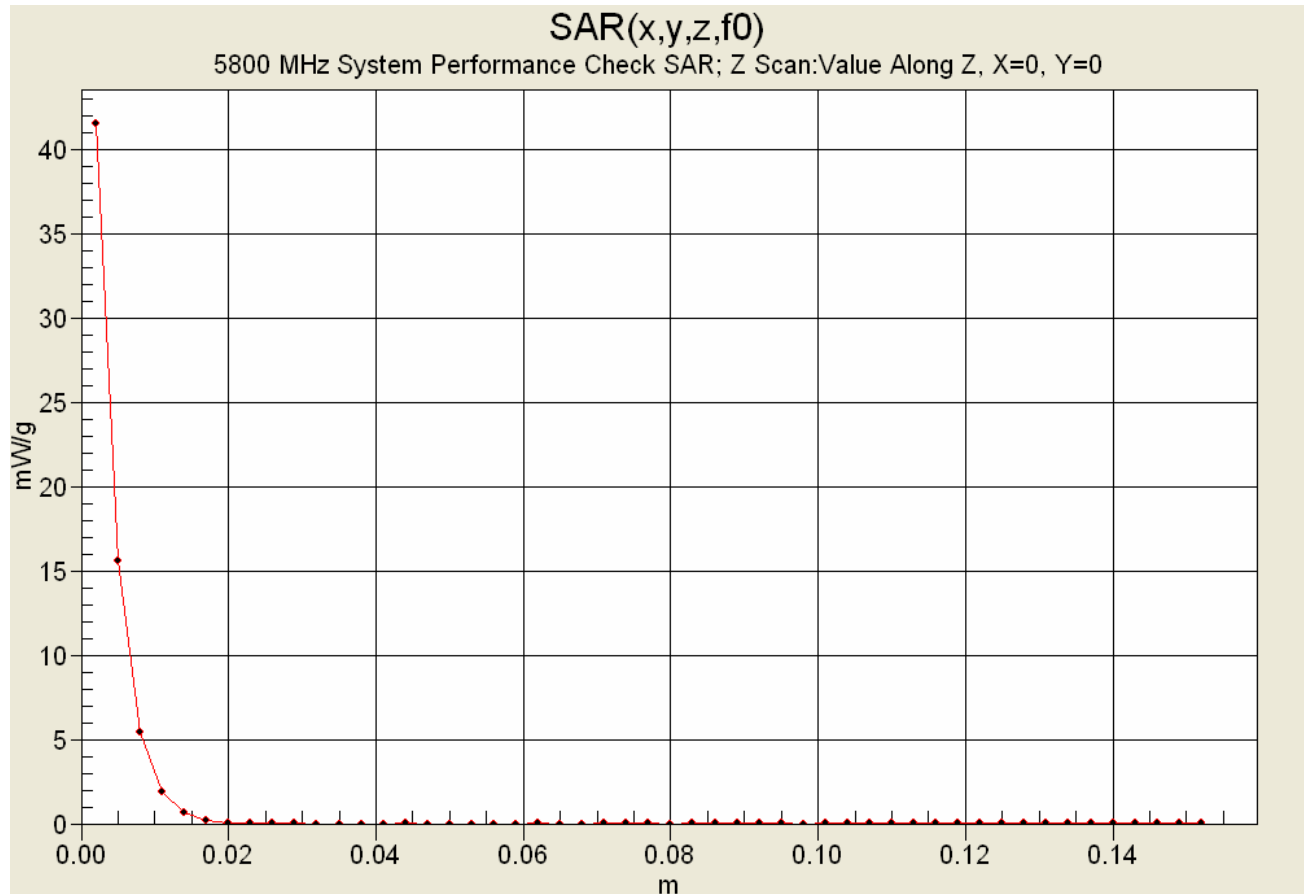
**SAR(1 g) = 19.6 mW/g; SAR(10 g) = 5.51 mW/g**




Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure    SAR	FCC §2.1093	IC RSS-102

## Z-Axis Scan



Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

Date Tested: 12/06/2005

## System Performance Check (Body) - 5800 MHz Dipole

**DUT: Dipole 5GHz; Model: D5GHzV2; Type: System Performance Check; Serial: 1031; Calibrated: 01/11/2005**

Ambient Temp: 23.7 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 103.5 kPa; Humidity: 30%

Communication System: CW

Forward Conducted Power: 250 mW

Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: M5200-5800 ( $\sigma = 5.95$  mho/m;  $\epsilon_r = 46.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: EX3DV4 - SN3547; ConvF(4.59, 4.59, 4.59); Calibrated: 21/01/2005
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 15/06/2005
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

### 5800 MHz Dipole - System Performance Check/Area Scan (9x13x1):

Measurement grid: dx=5mm, dy=5mm

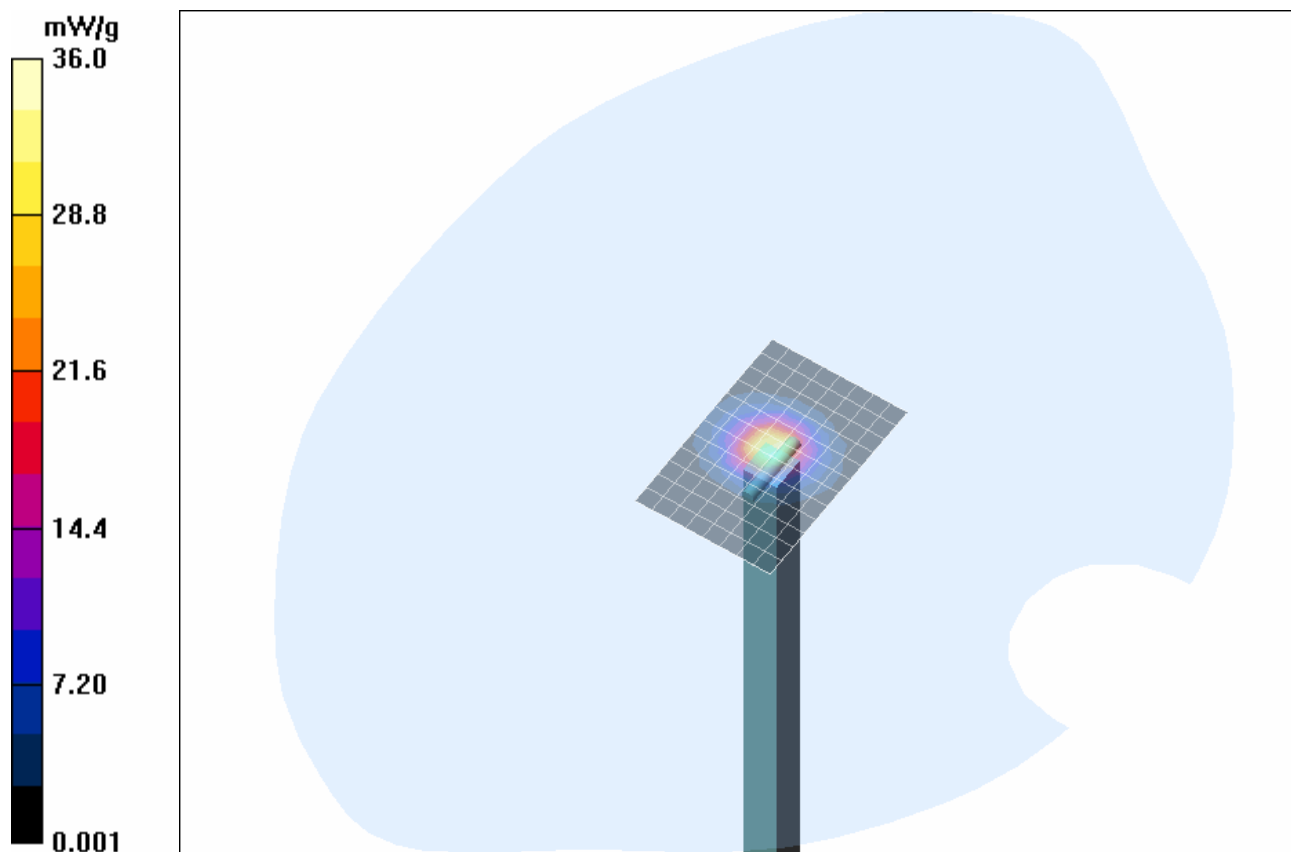
### 5800 MHz Dipole - System Performance Check/Zoom Scan 2 (8x8x8)/Cube 0:


Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 84.6 V/m; Power Drift = 0.072 dB

Peak SAR (extrapolated) = 73.3 W/kg

**SAR(1 g) = 17.1 mW/g; SAR(10 g) = 4.76 mW/g**

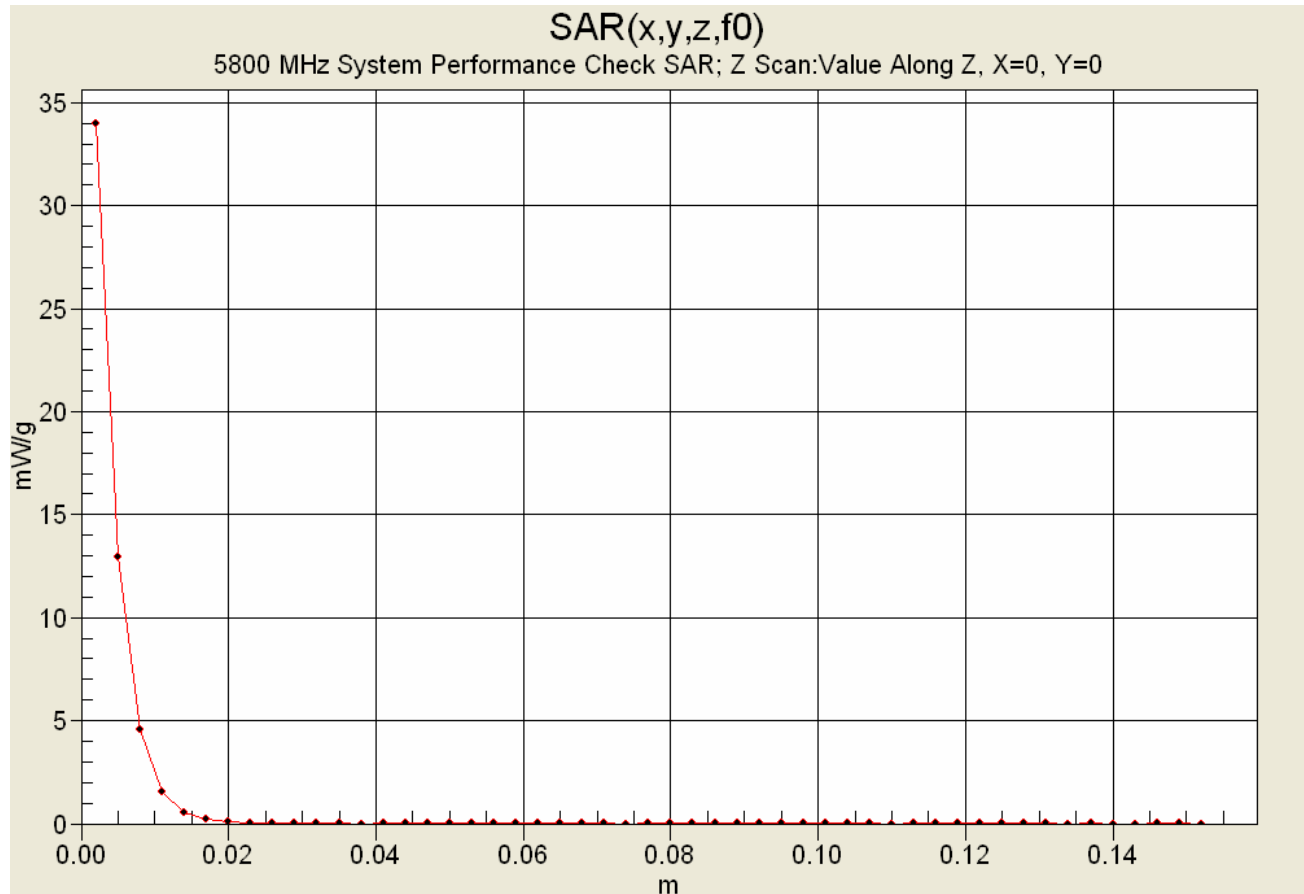



Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure    SAR	FCC §2.1093	IC RSS-102


## Z-Axis Scan




<b>Applicant:</b>	<b>Uniden America Corporation</b>	<b>FCC ID:</b>	<b>AMWUP758</b>	<b>IC ID:</b>	<b>513C-UP758</b>	
<b>Model(s):</b>	<b>TRU9460-2(XX)</b>	<b>Portable 5.8GHz Cordless Telephone Handset</b>		<b>5741.056-5828.096 MHz</b>		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

## APPENDIX C - MEASURED FLUID DIELECTRIC PARAMETERS

Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

## 5800 MHz System Performance Check & DUT Evaluation (Head)

\*\*\*\*\*

Celltech Labs Inc.

Test Result for UIM Dielectric Parameter

Thu 01/Dec/2005

Frequency(GHz)

FCC\_eHFCC OET 65 Supplement C (June 2001) Limits for Head Epsilon


FCC\_sHFCC OET 65 Supplement C (June 2001) Limits for Head Sigma


Test\_e Epsilon of UIM

Test\_s Sigma of UIM

\*\*\*\*\*

Freq	FCC_eHF	FCC_sH	Test_e	Test_s
5.7000	35.41	5.17	34.77	5.00
5.7100	35.40	5.18	34.78	5.00
5.7200	35.39	5.19	34.80	4.96
5.7300	35.38	5.20	34.33	5.02
5.7400	35.37	5.21	34.55	5.10
5.7500	35.36	5.22	34.60	5.06
5.7600	35.35	5.23	34.46	5.04
5.7700	35.33	5.24	34.59	5.09
5.7800	35.32	5.25	34.59	5.07
5.7900	35.31	5.26	34.60	5.08
5.8000	35.30	5.27	34.52	5.15
5.8100	35.29	5.28	34.45	5.15
5.8200	35.28	5.29	34.37	5.17
5.8300	35.27	5.30	34.41	5.12
5.8400	35.25	5.31	34.35	5.11
5.8500	35.24	5.32	34.36	5.12
5.8600	35.23	5.33	34.46	5.19
5.8700	35.22	5.34	33.99	5.18
5.8800	35.21	5.35	34.22	5.20
5.8900	35.20	5.36	34.32	5.16
5.9000	35.19	5.37	34.11	5.20

<b>Applicant:</b>	<b>Uniden America Corporation</b>	<b>FCC ID:</b>	<b>AMWUP758</b>	<b>IC ID:</b>	<b>513C-UP758</b>	
<b>Model(s):</b>	<b>TRU9460-2(XX)</b>	<b>Portable 5.8GHz Cordless Telephone Handset</b>		<b>5741.056-5828.096 MHz</b>		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102


### 5800 MHz System Performance Check (Body)


\*\*\*\*\*

Celltech Labs Inc.  
Test Result for UIM Dielectric Parameter  
Wed 06/Dec/2005  
Frequency(GHz)  
FCC\_eHFCC Bulletin 65 Supplement C ( June 2001) Limits for Head Epsilon  
FCC\_sHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma  
FCC\_eB FCC Limits for Body Epsilon  
FCC\_sB FCC Limits for Body Sigma  
Test\_e Epsilon of UIM  
Test\_s Sigma of UIM

\*\*\*\*\*

Freq	FCC_eB	FCC_sB	Test_e	Test_s
5.7000	48.34	5.88	47.35	5.87
5.7100	48.32	5.89	47.33	5.86
5.7200	48.31	5.91	47.22	5.90
5.7300	48.30	5.92	47.24	5.82
5.7400	48.28	5.93	46.96	5.91
5.7500	48.27	5.94	47.11	5.92
5.7600	48.25	5.95	46.75	5.94
5.7700	48.24	5.96	46.80	5.96
5.7800	48.23	5.98	46.78	5.91
5.7900	48.21	5.99	47.20	5.87
5.8000	48.20	6.00	46.93	5.95
5.8100	48.19	6.01	46.79	6.04
5.8200	48.17	6.02	46.84	6.07
5.8300	48.16	6.04	46.90	6.12
5.8400	48.15	6.05	47.18	6.10
5.8500	48.13	6.06	46.96	6.11
5.8600	48.12	6.07	46.53	6.02
5.8700	48.10	6.08	46.59	6.11
5.8800	48.09	6.09	46.84	5.99
5.8900	48.08	6.11	46.85	6.10
5.9000	48.06	6.12	46.81	6.05

<b>Applicant:</b>	<b>Uniden America Corporation</b>	<b>FCC ID:</b>	<b>AMWUP758</b>	<b>IC ID:</b>	<b>513C-UP758</b>	
<b>Model(s):</b>	<b>TRU9460-2(XX)</b>	<b>Portable 5.8GHz Cordless Telephone Handset</b>		<b>5741.056-5828.096 MHz</b>		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102


### 5800 MHz DUT Evaluation (Body)

\*\*\*\*\*

Celltech Labs Inc.  
Test Result for UIM Dielectric Parameter  
Wed 07/Dec/2005  
Frequency(GHz)  
FCC\_eHFCC Bulletin 65 Supplement C ( June 2001) Limits for Head Epsilon  
FCC\_sHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma  
FCC\_eB FCC Limits for Body Epsilon  
FCC\_sB FCC Limits for Body Sigma  
Test\_e Epsilon of UIM  
Test\_s Sigma of UIM


\*\*\*\*\*

Freq	FCC_eB	FCC_sB	Test_e	Test_s
5.7000	48.34	5.88	46.48	5.69
5.7100	48.32	5.89	46.50	5.70
5.7200	48.31	5.91	46.55	5.73
5.7300	48.30	5.92	46.42	5.59
5.7400	48.28	5.93	46.17	5.71
5.7500	48.27	5.94	46.44	5.68
5.7600	48.25	5.95	45.96	5.68
5.7700	48.24	5.96	45.77	5.70
5.7800	48.23	5.98	45.77	5.77
5.7900	48.21	5.99	46.10	5.77
5.8000	48.20	6.00	46.22	5.79
5.8100	48.19	6.01	45.98	5.84
5.8200	48.17	6.02	46.02	5.87
5.8300	48.16	6.04	46.14	5.85
5.8400	48.15	6.05	46.21	5.82
5.8500	48.13	6.06	46.08	5.79
5.8600	48.12	6.07	45.79	5.85
5.8700	48.10	6.08	45.49	5.90
5.8800	48.09	6.09	45.61	5.85
5.8900	48.08	6.11	45.84	5.88


<b>Applicant:</b>	<b>Uniden America Corporation</b>	<b>FCC ID:</b>	<b>AMWUP758</b>	<b>IC ID:</b>	<b>513C-UP758</b>	
<b>Model(s):</b>	<b>TRU9460-2(XX)</b>	<b>Portable 5.8GHz Cordless Telephone Handset</b>		<b>5741.056-5828.096 MHz</b>		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

## APPENDIX D - MANUFACTURER'S TISSUE SIMULANT DATA SHEET

Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure SAR	FCC §2.1093	IC RSS-102

Schmid & Partner Engineering AG

**s p e a g**

Zeughausstrasse 43, 8004 Zurich, Switzerland  
Phone +41 1 245 9700, Fax +41 1 245 9779  
info@speag.com, http://www.speag.com

## Material Safety Data Sheet

### 1 Identification of the substance and of the manufacturer / origin

Item	Head Tissue Simulation Liquid HSL5800 Muscle Tissue Simulation Liquid MSL 5800
Type No	SL AAH 580, SL AAM 580
Series No	N/A
Manufacturer / Origin	Schmid & Partner Engineering AG Zeughausstrasse 43 8004 Zürich Switzerland Phone +41 1 245 9700, Fax +41 1 245 9779, support@speag.com

Use of the substance:

Liquid simulating physical parameters of Head or Muscle Tissue in the RF range to 6GHz.

### 2 Composition / Information on ingredients

The Item is composed of the following ingredients:

Water	64 - 78%
Mineral Oil	11 - 18%
Emulsifiers	9 - 15%
Additives and Salt	2 - 3%

Safety relevant ingredients according to EU directives:

CAS-No 107-41-5	< 4%	2-Methyl-2,4-pentandiol (Hexylene Glycol): Xi irritant, R36/38 irritant for eyes and skin
CAS-No 770-35-4	< 2%	1-Phenoxy-2-propanol (Propylene Glycol Phenyl Ether): Xi irritant, R36 irritant for eyes
CAS-No 93-83-4	< 2%	N,N-bis(2-Hydroxyethyl)oleamide: Xi irritant, R36/38 irritant for eyes and skin
CAS-No 9004-95-9	< 0.5%	Polyethylene glycol cetyl ether: Xi irritant, R22 harmful if swallowed, R36/38 irritant for eyes and skin R50 Very toxic to aquatic organisms

According to EU guidelines and Swiss rules, the product is not a dangerous mixture and therefore not required to be marked by symbols.

### 3 Hazards identification

Identification not required.


### 4 First aid measures

The product reacts slightly alkaline.

After skin contact:	Wash with fresh water and mild sope
After eye contact:	Rinse out with plenty of water for several minutes with the eyelid held open. Consult an ophthalmologist if necessary.
After ingestion:	Do not induce vomiting. Get medical attention.

### 5 Fire-fighting measures

Firefighting media	CO2, foam, dry chemical
Combustion products	Carbon oxides, nitrogen and traces of oxides of chlorine and sulfur, HCl
Due to the high water content, the liquid is self-extinguishing.	

Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure    SAR	FCC §2.1093	IC RSS-102

## 6 Accidental release measures

Person-related precaution measures: wash with water and mild soap.

Environmental-protection measures: do not allow to enter sewerage system.

Procedures for cleaning / absorption: Use oil-binding agents., forward for disposal. Spills may cause slippery conditions.

## 7 Handling and storage

Handling: Keep in open container only for minimum required time in order to avoid water evaporation.

Storage: tightly closed, between >0 to 40°C. Avoid direct solar irradiation of the storage containers.

## 8 Exposure controls / personal protection

Protection measures are not generally required. For eye protection, industrial safety glasses are recommended.

Personal hygiene and clean working practices are sufficient.

## 9 Physical and chemical properties

Form:	liquid
Colour:	medium to dark brown, transparent to opaque
Odour:	almost odourless / slightly oily
pH-Value:	slightly alcalic
Boiling point:	100°C
Density:	1g/cm <sup>3</sup>

## 10 Stability and reactivity

Conditions to be avoided: heating above 40°C

The product contains water and is not compatible with strong oxidizers or magnesium.

## 11 Toxicological information

LD50 > 40 g/kg

Further data: the product should be handled with the care usual when dealing with chemicals

## 12 Ecological information

Contains mineral oil. Do not allow to enter waters, waste water, or soil!

## 13 Disposal considerations

Disposal is possible by splitting the mineral oil from the emulsion with absorbing agents, with salt or ultra-filtration. Dispose as other mineral oil containing products according to local regulations.

Product packing must be disposed of in compliance with respect national regulations.

## 14 Transport information

Not subject to transport regulations.


## 15 Regulatory information

No special labelling required.

## 16 Other information


Release date: 6.1.2005

Responsible: FB

Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

## APPENDIX E - SAR TEST SETUP PHOTOGRAPHS

Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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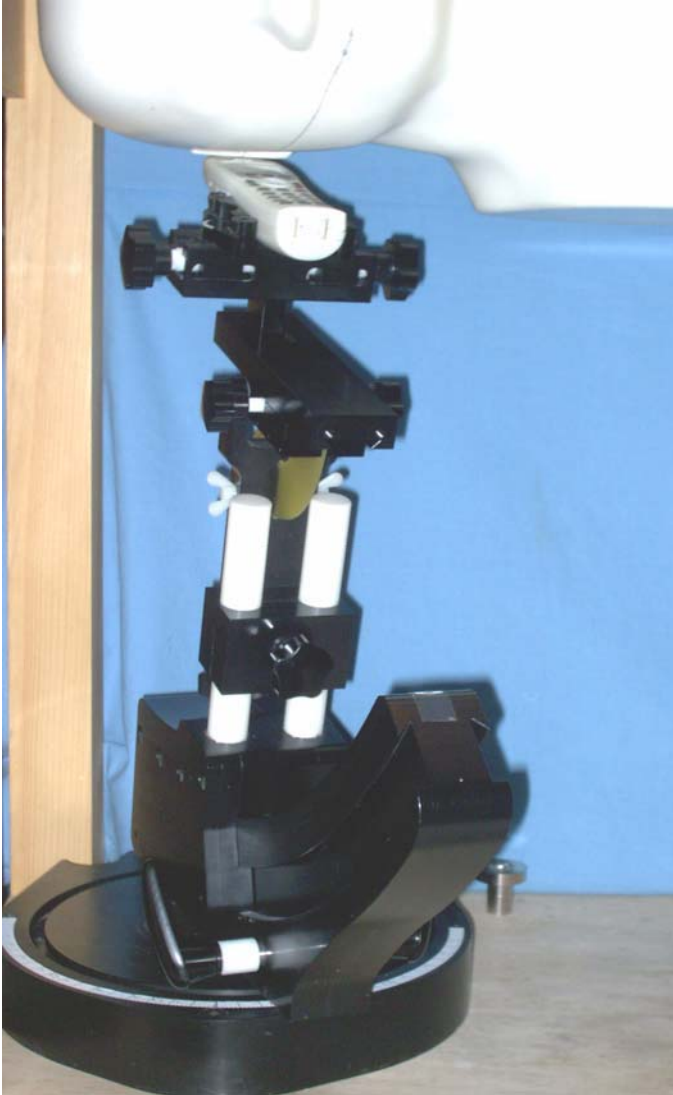
## HEAD SAR TEST SETUP PHOTOGRAPHS

Right Head Section / Cheek-Touch Position



## HEAD SAR TEST SETUP PHOTOGRAPHS

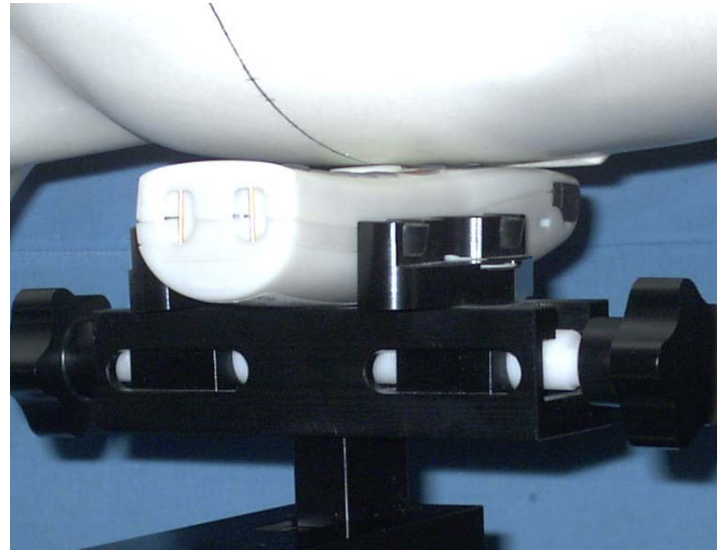
Right Head Section / Ear-Tilt Position (15°)





## HEAD SAR TEST SETUP PHOTOGRAPHS

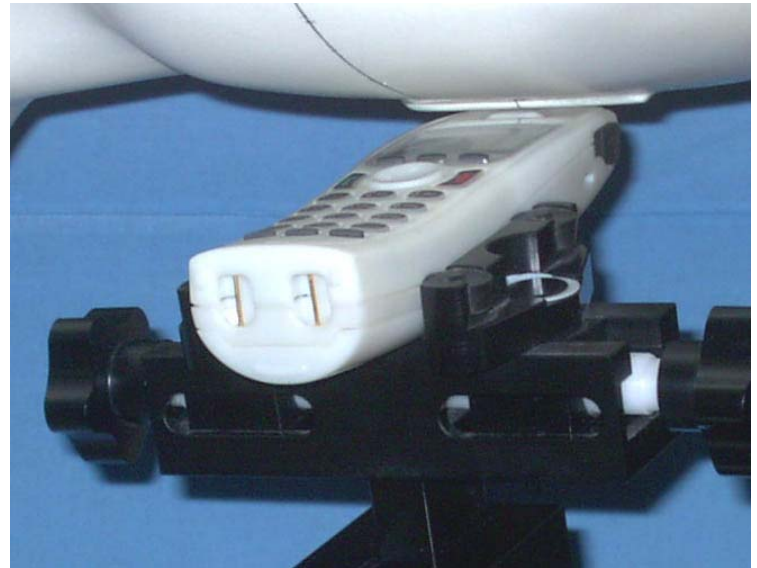
Left Head Section / Cheek-Touch Position



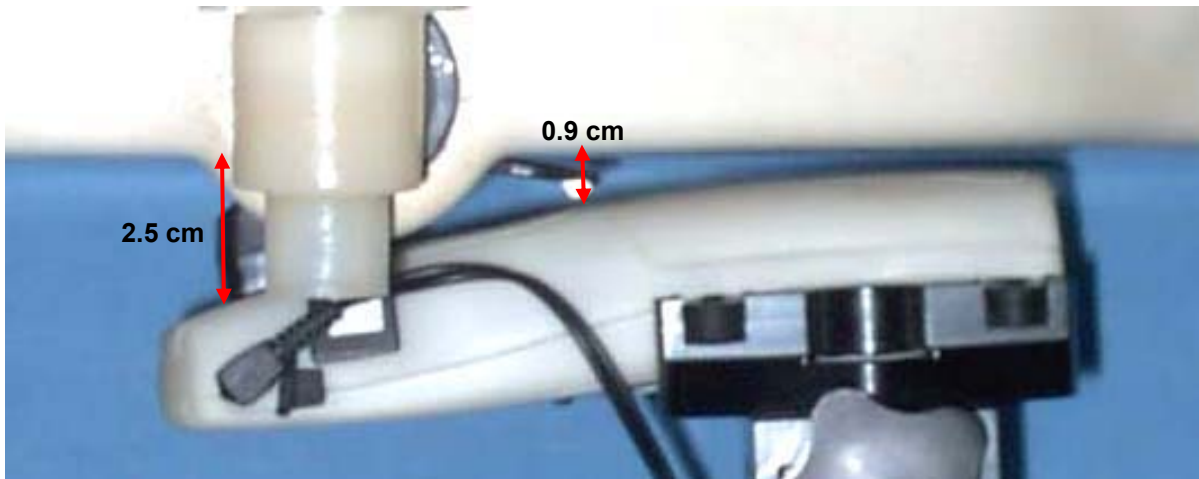


## HEAD SAR TEST SETUP PHOTOGRAPHS

Left Head Section / Ear-Tilt Position (15°)



**BODY-WORN SAR TEST SETUP PHOTOGRAPHS**  
**1.6 cm Belt-Clip Separation Distance from Back of DUT to Planar Phantom**  
**with Plastic Belt-Clip and Headset with Boom-Microphone Accessories**



	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure    SAR	FCC §2.1093	IC RSS-102

## DUT PHOTOGRAPHS



Front of DUT



Back of DUT




Back of DUT with Belt-Clip



Top of DUT



Bottom of DUT

Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure    SAR	FCC §2.1093	IC RSS-102

## DUT PHOTOGRAPHS




Left Side of DUT with Belt-Clip



Right Side of DUT with Belt-Clip



Plastic Belt-Clip Accessory

Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure    SAR	FCC §2.1093	IC RSS-102

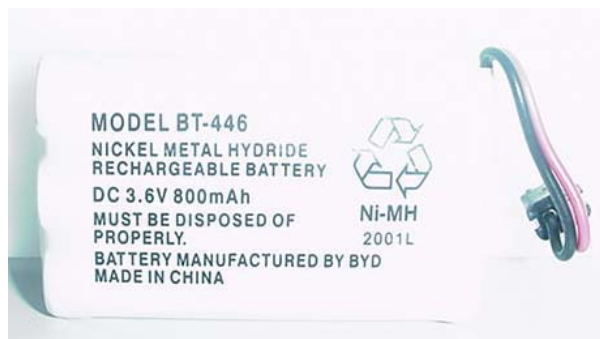
## DUT PHOTOGRAPHS



DUT Battery Compartment




Ni-MH Battery 3.6V, 800mAh



Ni-MH Battery 3.6V, 800mAh



Ni-MH Battery 3.6V, 800mAh


Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

## DUT PHOTOGRAPHS




DUT with Headset & Boom-Microphone Accessory (P/N: TRUC46)

Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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	Test Report Serial No.:	112405AMW-F697-S15T	Report Issue Date:	Dec. 09, 2005
	Date(s) of Evaluation:	December 01, 06-07, 2005	Report Rev. No.:	Revision 0
	Description of Tests:	RF Exposure      SAR	FCC §2.1093	IC RSS-102

## APPENDIX H - SAM PHANTOM CERTIFICATE OF CONFORMITY

Applicant:	Uniden America Corporation	FCC ID:	AMWUP758	IC ID:	513C-UP758	
Model(s):	TRU9460-2(XX)	Portable 5.8GHz Cordless Telephone Handset		5741.056-5828.096 MHz		
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# Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland, Phone +41 1 245 97 00, Fax +41 1 245 97 79

## Certificate of conformity / First Article Inspection

Item	SAM Twin Phantom V4.0
Type No	QD 000 P40 BA
Series No	TP-1002 and higher
Manufacturer / Origin	Untersee Composites Hauptstr. 69 CH-8559 Fruthwilen Switzerland

### Tests

The series production process used allows the limitation to test of first articles.  
Complete tests were made on the pre-series Type No. QD 000 P40 AA, Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA, Serial No. TP-1006. Certain parameters have been retested using further series units (called samples).

Test	Requirement	Details	Units tested
Shape	Compliance with the geometry according to the CAD model.	IT'IS CAD File (*)	First article, Samples
Material thickness	Compliant with the requirements according to the standards	2mm +/- 0.2mm in specific areas	First article, Samples
Material parameters	Dielectric parameters for required frequencies	200 MHz – 3 GHz Relative permittivity < 5 Loss tangent < 0.05.	Material sample TP 104-5
Material resistivity	The material has been tested to be compatible with the liquids defined in the standards	Liquid type HSL 1800 and others according to the standard.	Pre-series, First article

### Standards

- [1] CENELEC EN 50361
- [2] IEEE P1528-200x draft 6.5
- [3] IEC PT 62209 draft 0.9

(\*) The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of [1] and [3].

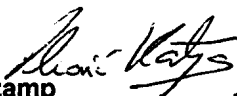
### Conformity

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standard [1] and draft standards [2] and [3].

Date

18.11.2001

Signature / Stamp



**Schmid & Partner  
Engineering AG**



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