


MOTOROLA

CGISS EME Test Laboratory

 8000 West Sunrise Blvd
 Fort Lauderdale, FL. 33322

S.A.R. EME Compliance Test Report
Part 1 of 2

Date of Report: August 20, 2004
Report Revision: Rev. O
Manufacturer: Motorola
Product Description: iDEN i265; 1:6, 1:3, 81:120, 1:12 TDMA; 64 QAM, 16 QAM & QPSK Modulation; 0.6 W Pulse average
FCC ID: AZ489FT5839
Device Model: H45XAN6RR4AN/NUF3975A00

Test Period: 8/2/04-8/12/04
Technician: Clint Miller (EME Technician Electronics II)
Responsible Eng: Jim Fortier (Elect. Principle Staff Eng.)
Author: Michael Sailsman (Global EME Regulatory Affairs Liaison)

Note: 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 2.0 of this report.

Jim Fortier's signature on file for Ken Enger

8/20/04

 Ken Enger
 Senior Resource Manager, Laboratory Director, CGISS EME Lab

 Date Approved

Note: This report shall not be reproduced without written approval from an officially designated representative of the Motorola EME Laboratory.

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REVISION HISTORY

Date	Revision	Comments
8/20/04	O	Release of Prototype results

1.0 Introduction

This report details the utilization, test setup, test equipment, and test results of the Specific Absorption Rate (S.A.R.) measurements performed at the CGISS EME Test Lab for model number H45XAN6RR4AN/NUF3975A00, FCC ID: AZ489FT5839.

The applicable exposure environment is General Population/Uncontrolled.

2.0 Reference Standards and Guidelines

This product is designed to comply with the following national and international standards and guidelines.

- United States Federal Communications Commission, Code of Federal Regulations; 47CFR part 2 sub-part J
- IEEE 1528, 2003 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques"
- American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronic Engineers (IEEE) C95.1-1999 Edition
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998
- Ministry of Health (Canada) Safety Code 6. Limits of Human Exposure to Terminal frequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz, 1999
- Australian Communications Authority Radiocommunications (Electromagnetic Radiation - Human Exposure) Standard 2003
- ANATEL, Brazil Regulatory Authority, Resolution No. 303 of July 2, 2002 "Regulation of the limitation of exposure to electrical, magnetic, and electromagnetic fields in the radio frequency range between 9KHz and 300 GHz." and "Attachment to resolution # 303 from July 2, 2002"

3.0 Description of Test Sample



(Horizontal and vertical reference lines intersecting at the acoustic output are marked in white on the DUT)

FCC ID: AZ489FT5839 is a digital multi-service data capable device that employs time division multiplexing transmission technology with a duty cycle ranging from 16.67% to 33.33% using M16-QAM modulation for voice or circuit data transmission. There is a Split 1:3 mode that operates using a 16.67% transmission duty cycle. Two 7.5ms pulses occur during the six time slots within the 90-msec frame format. This mode is available in both the 806-825MHz and 896-902MHz bands in the telephone interconnect mode only. Packet data transmission is also supported up to a maximum duty cycle of 67.5% using quad QPSK modulation.

This device will be marketed to and used by the general population. This device may be used while held against the head in voice mode, in front of the face in PTT mode, and against the body in voice, PTT and data modes.

FCC ID: AZ489FT5839 is capable of operating in the 806-825 MHz and 896-902MHz bands. Packet data transmission is not available while transmitting in the 896-902 MHz band. The rated power is 0.60 watts pulsed averaged. The maximum output is 0.64 watts pulsed average as defined by the upper limit of the production line final test station.

FCC ID: AZ489FT5839 is offered with the following options and accessories:

Antenna	Description
8585924E01	806 – 941 MHz ½ wave retractable antenna; 10.6cm Worst case antenna gain –0.94dBd @ 813MHz, 0.86dBd @ 896 MHz

Batteries

SNN5705B	750mAh Lithium Ion battery
SNN5704A	700mAh Slim line Lithium Ion battery
SNN5705C	8-mm battery (950 mAh)
SNN5704C	700mAh Slim line Lithium Ion battery
NNTN5845A	Battery cover

Body-worn Accessories

NNTN5821A	Holster
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Applicable Audio accessories

SYN8390B	Privacy Earpiece and Mic
NNTN4033A	Privacy earpiece and Mic w/ PTT
NSN6066A	Remote speaker Mic
NNTN4620A	Silver Earbud
SYN8146C	Lightweight over the ear headset w/boom Mic
SYN7875C	Hearing Aid Neck loop
NTN8496A	Lightweight Headset w/mic
NTN8513B	Lightweight Headband
NNTN5004A	PTT headset (Over-the-ear)
NNTN5005A	PTT headset (Over the head)
NNTN5006A	PTT headset (Ear bud)
NNTN5330A	Ear Bud Audio Accessory
NNTN5751A	Stereo/ phone audio mix headset, PTT

Other applicable options:

NKN6560A	RS232 Data Cable
NKN6559A	USB Data Cable
NNTN5405A	USB Data cable w/charging
NNTN5406A	RS232 Data cable w/charging

3.1 Test Signal

Test Mode	<input checked="" type="checkbox"/>	Call Simulator	<input type="checkbox"/>	Simulator	<input type="checkbox"/>
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Test Signal mode:

Transmission Mode:

CW	<input type="checkbox"/>
Native Transmission	<input checked="" type="checkbox"/>
TDMA	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

3.2 Test Output Power

A table of the characteristic power slump versus time is provided in Appendix A for all tested batteries.

4.0 Description of Test Equipment

4.1 Descriptions of S.A.R. Measurement System

The laboratory utilizes a Dosimetric Assessment System (DASY3™) S.A.R. measurement system manufactured by Schmid & Partner Engineering AG (SPEAG™), of Zurich Switzerland. The test system consists of a Stäubli RX90L robot with ET3DV6 and EX3DV3 E-Field probes. Please reference the SPEAG user manual and application notes for detailed probe, robot, and S.A.R. computational procedures.

The S.A.R. measurements were conducted with probe model/serial number ET3DV6/SN1383. The system performance check was conducted daily and within 24 hours prior to testing. DASY output files of the system performance test results and the probe/dipole calibration certificates are included in appendices C and D respectively. The table below summarizes the system performance check results normalized to 1W.

Probe Serial #	Tissue Type	Probe Cal Date	Dipole Kit / Serial #	System Perf. 1-g S.A.R. Result when normalized to 1W (mW/g)	Reference 1-g S.A.R @ 1W (mW/g)	Test Date(s)
1383	FCC Body	2/25/04	D835V2/426	10.925 +/- 0.325	10.56 +/- 10%	8/9/04-8/12/04 3 test days
1383	IEEE Head	2/25/04	D900V2/085	12.235 +/- 0.095	12.00 +/- 10%	8/2/04-8/11/04 6 test days

Note: System performance results reflects the median performance +/- 1/2 of the test date(s) performance ranges

The DASY3™ system is operated per the instructions in the DASY3™ Users Manual. The complete manual is available directly from SPEAG™. All measurement equipment used to assess S.A.R. EME compliance was calibrated according to 17025 A2LA guidelines.

4.2 Description of Phantom

4.2.1 Flat Phantom

A rectangular shaped box made of high density polyethylene (HDPE) material. The phantom is mounted on a wooden supporting structure that has a loss tangent of < 0.05. The structure has a 68.58 cm x 25.40 cm opening at its center to allow positioning the DUT to the phantom's surface. The flat phantom dimensions used for S.A.R. performance assessment are L = 80cm, W = 60cm, H = 20cm, Surface Thickness = 0.2cm.

4.2.2 SAM Phantom

A SAM TP1208 phantom supplied by SPEAG was used to assess S.A.R. performance at the head.

4.3 Simulated Tissue Properties

4.3.1 Type of Simulated Tissue

The simulated tissue used is compliant to that specified in FCC Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97-01) and IEEE 1528, 2003 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques"

Simulated Tissue	Body Position
FCC Body	Torso
IEEE Head	Head/Face

4.3.2 Simulated Tissue Composition

% of listed ingredients	900MHz		835MHz	
	Head	Body	Head	Body
Sugar	56.50	44.90	57.00	44.90
DGBE (Glycol)	NA	NA	NA	NA
Diacetin	NA	NA	NA	NA
De ionized -Water	40.95	53.06	44.90	53.06
Salt	1.45	0.94	1.45	0.94
HEC	1	1	1	1

Bact.	0.1	0.1	0.1	0.1
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Characterization of simulated tissue materials and ambient conditions:

Simulated tissue prepared for S.A.R. measurements is measured daily and within 24 hours prior to actual S.A.R. testing to verify that the tissue is within 5% of target parameters at the center of the transmit band. This measurement is done using the Agilent (HP) probe kit model 85070C and a HP8753D Network Analyzer.

Target tissue parameters

FCC Body				
Frequency (MHz)	Di-electric Constant Target	Di-electric Constant Meas. (Range)	Conductivity Target S/m	Conductivity Meas. (Range) S/m
899	55.0	54.2-54.2	1.05	1.05-1.05
835	55.2	54.2-54.8	0.97	0.98-0.98
813	55.3	54.4-55.0	0.97	0.96-0.96

IEEE Head				
Frequency (MHz)	Di-electric Constant Target	Di-electric Constant Meas. (Range)	Conductivity Target S/m	Conductivity Meas. (Range) S/m
900	41.5	40.2-41.3	0.97	1.01-1.01
899	41.5	40.9-41.1	0.97	1.00-1.01
813	41.6	41.4-42.4	0.90	0.93-0.93

4.4 Test conditions

The EME Laboratory ambient environment is well controlled resulting in very stable simulated tissue temperature and therefore stable dielectric properties. Simulated tissue temperature is measured prior to each scan to insure it is within +/- 2°C of the temperature at which the dielectric properties were determined. The liquid depth in the phantom used for measurements was 15cm +/- 0.5cm. Additional precautions are routinely taken to ensure the stability of the simulated tissue such as covering the phantoms when scans are not actively in process in order to minimize evaporation. The lab environment is continuously monitored. The table below presents the range and average environmental conditions during the S.A.R. tests reported herein:

	Target	Measured
Ambient Temperature	20 - 25 °C	Range: 18.5-19.8°C Avg. 19.15°C
Relative Humidity	30 - 70 %	Range: 48.0-63.4% Avg. 53.95%
Tissue Temperature	NA	Range: 19.9-23.4°C Avg. 21.28°C

The EME Lab RF environment uses a Spectrum Analyzer to monitor for extraneous large signal RF contaminants that could possibly affect the test results. If such unwanted signals are discovered the S.A.R scans are repeated. However, the lab environment is sufficiently protected such that no S.A.R. impacting interference has been experienced to date.

5.0 Probe Scan Procedures

The E-field probe first scans a coarse grid over a large area inside the phantom in order to locate the interpolated maximum S.A.R. distribution. After the coarse scan measurement, the probe is automatically moved to a position at the interpolated maximum. The subsequent scan can directly use this position as reference for the cube evaluations.

5.1 Shortened scan rationale

APPENDIX A presents relevant shortened S.A.R. cube scan to assess the validity of the calculated results presented herein. The results of the shortened cube scans demonstrate that the scaling methodology used to determine the calculated S.A.R. results presented herein are valid.

5.2 Device test positions

Reference Figure 1 for the device orientation and position which exhibited the highest S.A.R. performance.

5.2.1 Body

The DUT was positioned such that the carry case was centered against the flat phantom with and without the applicable accessory attachments. The DUT was positioned with its' front, and back separated 2.5cm from the flat phantom.

5.2.2 Head

The DUT was placed in the cheek touch and 15° tilt positions at the left and right ears of the SAM phantom

5.2.3 Face

The DUT was placed with 2.5cm separation from the flat area of the SAM phantom.

5.3 Description of Test Procedure

All options and accessories listed in section 3.0 were considered in order to develop the S.A.R. test plan for this product. S.A.R. measurements were performed using a flat phantom with applicable tissue simulant to assess performance at the body and a SAM phantom with applicable tissue simulant to assess performance at the side of the head and in front of the face using the applicable transmission modes.

[Note that a coarse-to-cube approximation methodology was utilized to determine the](#)

worst-case S.A.R. performance configuration for each applicable body location. The test configurations that produced the highest S.A.R. results for each body position using the coarse-to-cube approximation methodology were assessed using the full DASY3™ coarse and 7x7x7 cube scans.

The coarse-to-cube approximation is determined using a Motorola derived and SPEAG accepted software tool to predict a mass average S.A.R. value based on measured coarse scans. Note also that this software tool is part of the latest proposal by Motorola for inclusion into the IEC 62209 part II standard.

Assessments at the head (800MHz band) [Page 19-20 of 25; Table 1]

The DUT was assessed at the TX center frequency of the band, in cheek touch position at the left ear of the SAM phantom, with the antenna retracted and extended, using battery model SNN5705B, in the 1:3 transmission mode. The remaining batteries were assessed using the worst case configuration from above.

The DUT was assessed at the TX center frequency of the band, in the 15° tilt position at the left ear of the Sam phantom, with the antenna retracted and extended, using the worst case battery from above, in 1:3 transmission mode.

The DUT was assessed at the TX band edges, in 1:3 transmission mode, with the antenna retracted and extended, using the test configuration from above that produced the highest S.A.R results.

The DUT was assessed using the worst case frequency and battery from the left ear assessment, in cheek touch and 15° tilt positions at the right ear of the SAM phantom, with the antenna retracted and extended, in the 1:3 transmission mode.

The DUT was assessed at the low and center frequencies, in 1:3 transmission mode, with the antenna retracted and extended, using the test configuration from above that produced the highest S.A.R results.

The DUT was assessed at the center frequency of the band, in the 1:6 transmission mode, with 2.5cm separation distance from the flat area of the SAM phantom (face assessment), with the antenna extended and retracted, using the worst case battery from above. Band edge assessment was done using the worst case configuration from above.

Assessments at the head (900MHz band) [Page 21-22 of 25; Table 2]

The DUT was assessed at the TX center frequency of the band, in cheek touch position at the left ear of the SAM phantom, with the antenna retracted and extended, using battery model SNN5705B, in the 1:3 transmission mode. The remaining batteries were assessed using the worst case configuration from above.

The DUT was assessed at the TX band edges, in 1:3 transmission mode, with the antenna retracted and extended, using the test configuration from above that produced the highest S.A.R results.

The DUT was assessed using the worst case frequency and battery from the left ear assessment, in cheek touch and 15° tilt positions at the right ear of the SAM phantom, with the antenna retracted and extended, in the 1:3 transmission mode.

The DUT was assessed at the center and high frequencies, in 1:3 transmission mode, with the antenna retracted and extended, using the test configuration from above that produced the highest S.A.R results.

The DUT was assessed at the center frequency of the band, in the 1:6 transmission mode, with 2.5cm separation distance from the flat area of the SAM phantom (face assessment), with the antenna extended and retracted, using the worst case battery from above. Band edge assessment was done using the worst case configuration from above.

Assessments at the body (800MHz band) [Pages 22-23 of 25; Table 3]

The DUT was assessed at the TX center frequency of the band, with the offered body worn accessories against the flat phantom, in the 81:120 transmission mode, with the antenna retracted and extended, using each of the offered batteries.

The DUT was assessed at the TX center frequency of the band, against the flat phantom, in the 81:120 transmission mode, with the antenna retracted and extended, using the worst test configuration from above, with each of the offered data cable attachments.

The DUT was assessed at the TX center frequency of the band, against the flat phantom, in the 1:3 transmission mode, using the worst case test configuration from above, with each of the offered audio accessories.

The DUT was assessed at the edges of the band, in the 81:120 transmission mode, with the antenna retracted and extended, using the over all worst case test configuration at the body from above.

Assessments at the body (900MHz band) [Page 24 of 25; Table 4]

The DUT was assessed in the 1:3 transmission mode, across the TX band, with the antenna retracted and extended, using the applicable worst case test configuration from the 800MHz band assessment at the body.

Assessments at the body (@ 2.5cm) [Page 24 of 25; Table 5]

The DUT was assessed in the 81:120 transmission mode, against the phantom with its' back and front housing separated 2.5 cm from the phantom, using the worst case test frequency and offered battery from the 800MHz and 900MHz assessments above.

Shortened scan assessment at the body [APPENDIX A]

A “shortened” scan was performed using the test configuration that produced the highest S.A.R. results overall at the body.

5.4 Test Position Photographs

Figure 1: Highest S.A.R. Test Position (@ body)
DUT with body worn accessory model NNTN5845A against the flat phantom.

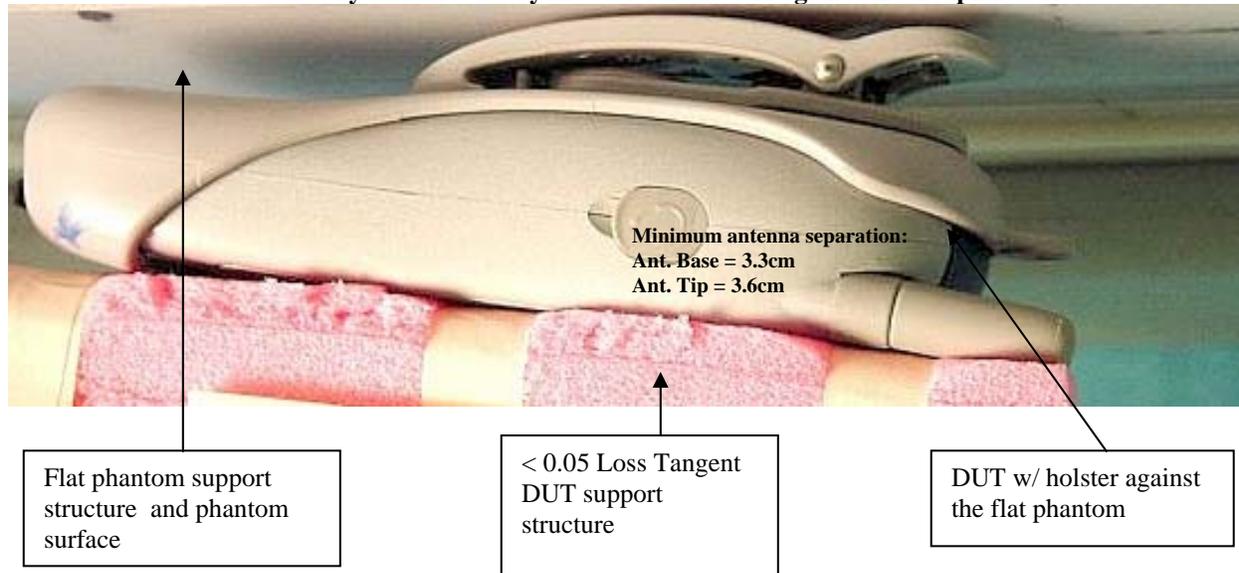
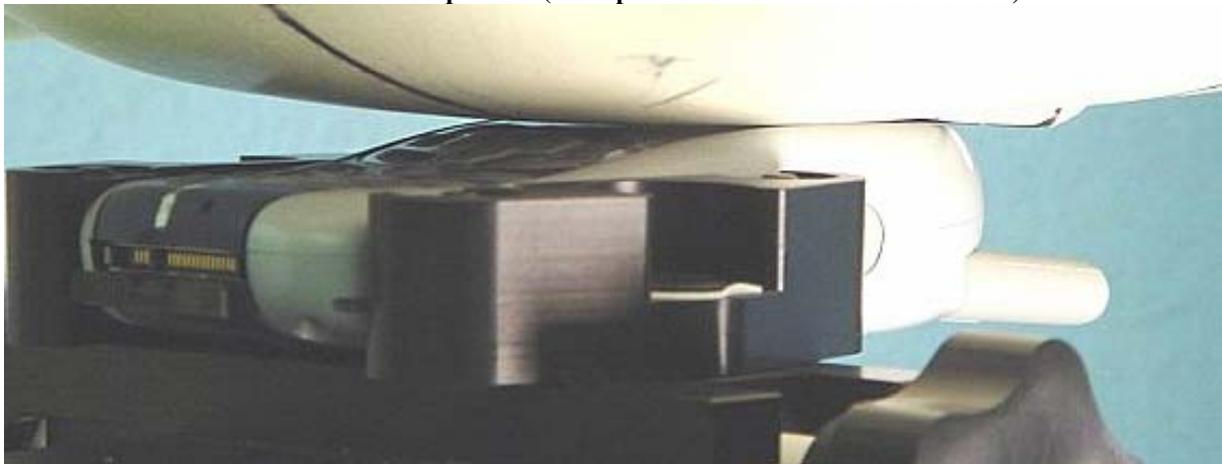


Figure 2. Assessment @ the Left ear
DUT in Cheek touch position (same position used for antenna extended)



**Figure 3. Assessment @ the Left ear
DUT in 15° tilt position (same position used for antenna extended)**



**Figure 4. Assessment @ the Right ear
DUT in Cheek touch position (same position used for antenna extended)**



**Figure 5. Assessment @ the Right ear
DUT in 15° tilt position (same position used for antenna extended)**



Figure 6. Assessment @ the body
DUT front 2.5cm separation distance from flat phantom.
(same position used for antenna extended)

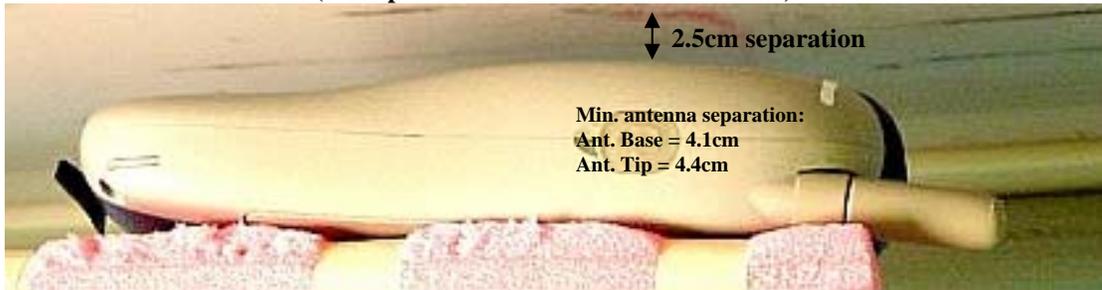


Figure 7. Assessment @ the body
DUT back 2.5cm separation distance from flat phantom.
(same position used for antenna extended)

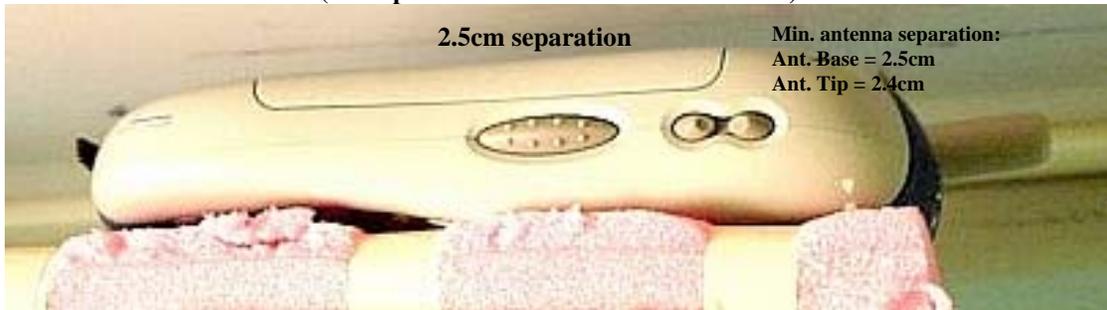


Figure 8. Assessment @ Face
DUT front 2.5cm separation distance from flat phantom.
(same position used for antenna extended)

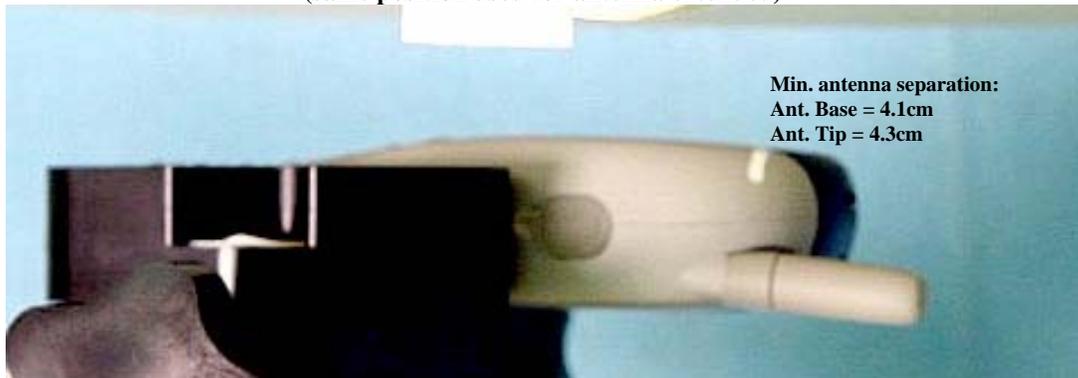


Figure 9: Robot Test System (Flat Phantom)

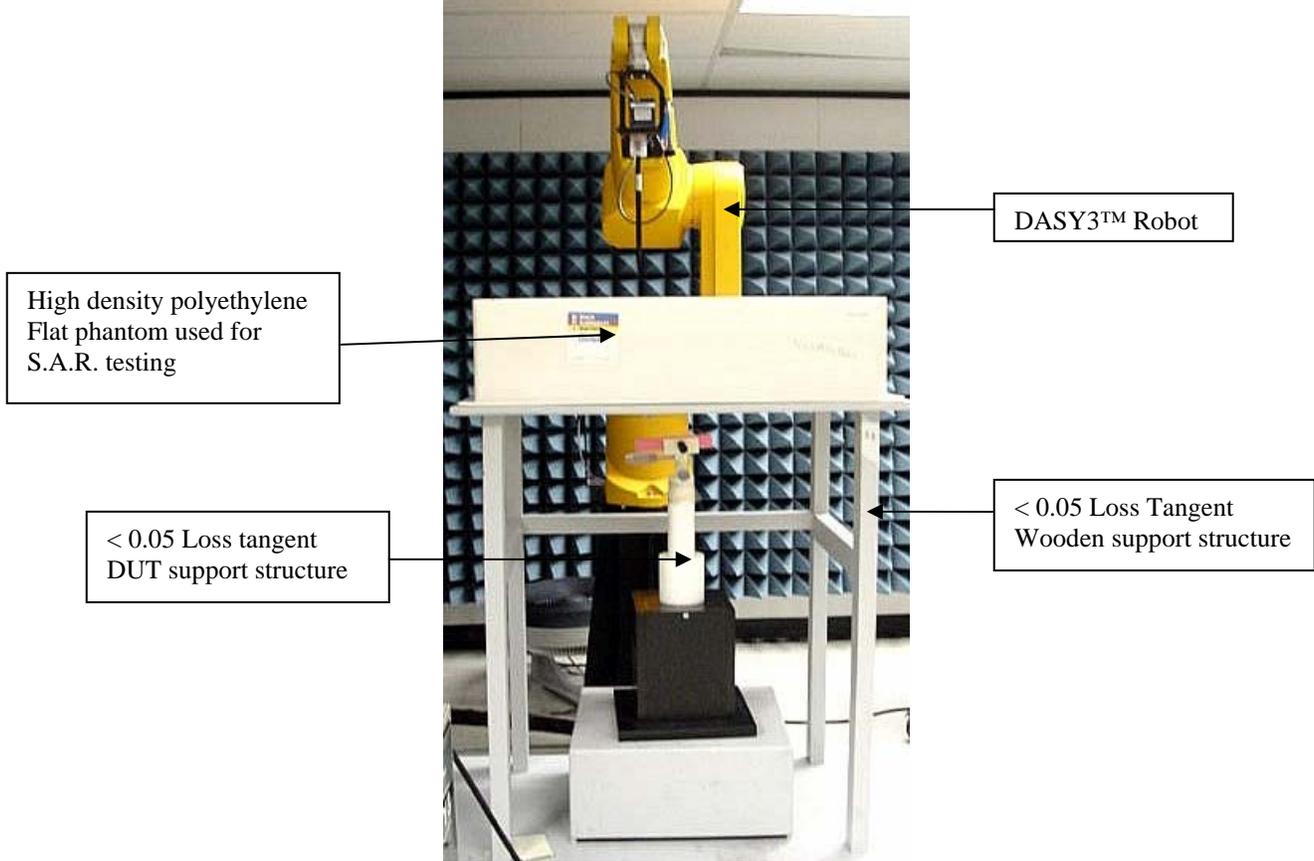


Figure 10: Robot Test System (SAM phantom)



6.0 Measurement Uncertainty

Table 1: Uncertainty Budget for Device Under Test: 75 – 3000 MHz

<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e = f(d,k)</i>	<i>f</i>	<i>g</i>	<i>h =</i>	<i>i =</i>	<i>k</i>
							<i>c x f / e</i>	<i>c x g / e</i>	
Uncertainty Component	IEEE 1528 section	Tol. (± %)	Prob Dist	Div.	<i>c_i</i> (1 g)	<i>c_i</i> (10 g)	1 g <i>u_i</i> (±%)	10 g <i>u_i</i> (±%)	<i>v_i</i>
	Measurement System								
Probe Calibration	E.2.1	4.8	N	1.00	1	1	4.8	4.8	∞
Axial Isotropy	E.2.2	4.7	R	1.73	0.707	0.707	1.9	1.9	∞
Hemispherical Isotropy	E.2.2	9.6	R	1.73	0.707	0.707	3.9	3.9	∞
Boundary Effect	E.2.3	1.0	R	1.73	1	1	0.6	0.6	∞
Linearity	E.2.4	4.7	R	1.73	1	1	2.7	2.7	∞
System Detection Limits	E.2.5	1.0	R	1.73	1	1	0.6	0.6	∞
Readout Electronics	E.2.6	1.0	N	1.00	1	1	1.0	1.0	∞
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	1.3	R	1.73	1	1	0.8	0.8	∞
RF Ambient Conditions - Noise	E.6.1	3.0	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	0.0	R	1.73	1	1	0.0	0.0	∞
Probe Positioner Mech. Tolerance	E.6.2	1.0	R	1.73	1	1	0.6	0.6	∞
Probe Positioning w.r.t Phantom	E.6.3	4.0	R	1.73	1	1	2.3	2.3	∞
Max. SAR Evaluation (ext., int., avg.)	E.5	3.4	R	1.73	1	1	2.0	2.0	∞
Test sample Related									
Test Sample Positioning	E.4.2	3.4	N	1.00	1	1	3.4	3.4	29
Device Holder Uncertainty	E.4.1	3.8	N	1.00	1	1	3.8	3.8	8
SAR drift	6.6.2	5.0	R	1.73	1	1	2.9	2.9	∞
Phantom and Tissue Parameters									
Phantom Uncertainty	E.3.1	4.0	R	1.73	1	1	2.3	2.3	∞
Liquid Conductivity (target)	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Conductivity (measurement)	E.3.3	6.5	N	1.00	0.64	0.43	4.2	2.8	∞
Liquid Permittivity (target)	E.3.2	5.0	R	1.73	0.6	0.49	1.7	1.4	∞
Liquid Permittivity (measurement)	E.3.3	4.0	N	1.00	0.6	0.49	2.4	2.0	∞
Combined Standard Uncertainty			RSS				12	11	601
Expanded Uncertainty (95% CONFIDENCE LEVEL)			<i>k=2</i>				23	22	

Table 2: Uncertainty Budget for System Check: 75 – 3000 MHz

<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e = f(d,k)</i>	<i>f</i>	<i>g</i>	<i>h =</i>	<i>i =</i>	<i>k</i>
							<i>c x f / e</i>	<i>c x g / e</i>	
Uncertainty Component	IEEE 1528 section	Tol.	Prob.	Div.	<i>c_i</i>	<i>c_i</i>	1 g	10 g	<i>v_i</i>
		(± %)	Dist.		(1 g)	(10 g)	<i>u_i</i>	<i>u_i</i>	
							(±%)	(±%)	
Measurement System									
Probe Calibration	E.2.1	4.8	N	1.00	1	1	4.8	4.8	∞
Axial Isotropy	E.2.2	4.7	R	1.73	1	1	2.7	2.7	∞
Spherical Isotropy	E.2.2	9.6	R	1.73	0	0	0.0	0.0	∞
Boundary Effect	E.2.3	1.0	R	1.73	1	1	0.6	0.6	∞
Linearity	E.2.4	4.7	R	1.73	1	1	2.7	2.7	∞
System Detection Limits	E.2.5	1.0	R	1.73	1	1	0.6	0.6	∞
Readout Electronics	E.2.6	1.0	N	1.00	1	1	1.0	1.0	∞
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	1.3	R	1.73	1	1	0.8	0.8	∞
RF Ambient Conditions - Noise	E.6.1	3.0	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	0.0	R	1.73	1	1	0.0	0.0	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.4	R	1.73	1	1	0.2	0.2	∞
Probe Positioning w.r.t. Phantom	E.6.3	1.4	R	1.73	1	1	0.8	0.8	∞
Max. SAR Evaluation (ext., int., avg.)	E.5	3.4	R	1.73	1	1	2.0	2.0	∞
Dipole									
Dipole Axis to Liquid Distance	8.E.4.2	2.0	R	1.73	1	1	1.2	1.2	∞
Input Power and SAR Drift Measurement	8.6.6.2	5.0	R	1.73	1	1	2.9	2.9	∞
Phantom and Tissue Parameters									
Phantom Uncertainty	E.3.1	4.0	R	1.73	1	1	2.3	2.3	∞
Liquid Conductivity (target)	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Conductivity (measurement)	E.3.3	6.0	R	1.73	0.64	0.43	2.2	1.5	∞
Liquid Permittivity (target)	E.3.2	5.0	R	1.73	0.6	0.49	1.7	1.4	∞
Liquid Permittivity (measurement)	E.3.3	6.0	R	1.73	0.6	0.49	2.1	1.7	∞
Combined Standard Uncertainty									
			RSS				9	8	99999
Expanded Uncertainty (95% CONFIDENCE LEVEL)									
			<i>k</i> =2				17	17	

Notes for Tables 1 and 2

- a) Column headings *a-k* are given for reference.
- b) Tol. - tolerance in influence quantity.
- c) Prob. Dist. – Probability distribution
- d) N, R - normal, rectangular probability distributions
- e) Div. - divisor used to translate tolerance into normally distributed standard uncertainty
- f) *c_i* - sensitivity coefficient that should be applied to convert the variability of the uncertainty component into a variability of SAR.
- g) *u_i* – SAR uncertainty
- h) *v_i* - degrees of freedom for standard uncertainty and effective degrees of freedom for the expanded uncertainty.

7.0 S.A.R. Test Results

All S.A.R. results obtained by the tests described in Section 5.0 are listed in section 7.1 below. As noted in section 5.3, a coarse-to-cube approximation methodology, which has been accepted by SPEAG, was utilized to ascertain the worst-case test configuration for each body location. The worst case test configurations observed for each body location were then assessed using the full DASY3™ coarse and 7x7x7 cube methodology, and they are presented as bolded results in section 7.1. The associated S.A.R. plots are provided in APPENDIX B.

Appendix A presents shortened S.A.R. cube scans to assess the validity of the calculated results presented herein. Note: The results of the shortened cube scans presented in Appendix A demonstrate that the scaling methodology used to determine the calculated S.A.R. results presented herein are valid.

7.1 S.A.R. results

Table1

DUT assessment at the head; Cheek Touch, Tilt, band edges and Face; 1:3 mode at head, 1:6 mode at face; 806-825MHz band (Run #s JF-LEAR-R3-040805-02, CM-FACE-R3-040805-15, CM-LEAR-R3-040804-23, CM-FACE-R3-040805-16, CM-Ab-R3-040812-05, CM-Ab-R3-040810-16 used full coarse and 7x7x7 cube scans)												
Run Number/ SN	Antenna Position	Freq. (MHz)	Battery	Test position	Carry Case	Additional attachments	Initial Power (W)	S.A.R. Drift (dB)	Meas. 1g-S.A.R. (mW/g)	Meas. 10g-S.A.R. (mW/g)	Max Calc. 1g-S.A.R. (mW/g)	Max Calc. 10g-S.A.R. (mW/g)
Assessment at the left Ear (1:3)												
CM-LEAR-R3-040802-02/364YEN7JB8	In	813.5125	SNN5705B	Cheek Touch	None	None	0.658	-0.04	1.077	0.753	1.09	0.76
CM-LEAR-R3-040802-08/364YEN7JB8	Out	813.5125	SNN5705B	Cheek Touch	None	None	0.654	0.04	0.369	0.263	0.37	0.26
CM-LEAR-R3-040802-09/364YEN7JB8	In	813.5125	SNN5705C	Cheek Touch	None	None	0.655	0.03	0.967	0.679	0.97	0.68
CM-LEAR-R3-040802-10/364YEN7JB8	In	813.5125	SNN5704A	Cheek Touch	None	None	0.661	0.03	1.004	0.707	1.00	0.71
CM-LEAR-R3-040802-11/364YEN7JB8	In	813.5125	SNN5704C	Cheek Touch	None	None	0.664	0.03	1.012	0.710	1.01	0.71
CM-LEAR-R3-040802-12/364YEN7JB8	In	813.5125	SNN5705B	15° tilt	None	None	0.661	0.09	0.640	0.454	0.64	0.45
CM-LEAR-R3-040802-13/364YEN7JB8	Out	813.5125	SNN5705B	15° tilt	None	None	0.662	0.09	0.536	0.372	0.54	0.37
Band edge assessment at the Left ear with worst case configuration from above (1:3)												
JF-LEAR-R3-040803-02/364YEN7JB8	In	806.0125	SNN5705B	Cheek Touch	None	None	0.624	0.06	0.919	0.640	0.94	0.66
JF-LEAR-R3-040803-03/364YEN7JB8	Out	806.0125	SNN5705B	Cheek Touch	None	None	0.624	-0.01	0.370	0.264	0.38	0.27
CM-LEAR-R3-040803-05/364YEN7JB8	In	824.9875	SNN5705B	Cheek Touch	None	None	0.646	-0.09	1.128	0.792	1.15 *	0.81
CM-LEAR-R3-040803-04/364YEN7JB8	Out	824.9875	SNN5705B	Cheek Touch	None	None	0.639	-0.03	0.356	0.253	0.36	0.26
*Assessment with the worst case test configuration at the head using the full DASY coarse and 7x7x7 cube scan measurements.												
JF-LEAR-R3-040805-02/364YEN7JB8	IN	824.9875	SNN5705B	Cheek Touch	None	None	0.643	-0.08	1.140	0.787	1.16	0.80

Table 1 (continued)

Run Number/ SN	Antenna Position	Freq. (MHz)	Battery	Test position	Carry Case	Additional attachments	Initial Power (W)	S.A.R. Drift (dB)	Meas. 1g-S.A.R. (mW/g)	Meas. 10g-S.A.R. (mW/g)	Max Calc. 1g-S.A.R. (mW/g)	Max Calc. 10g-S.A.R. (mW/g)
Assessment at the right Ear (1:3)												
CM-REAR-R3-040803-18/364YEN7JB8	In	813.5125	SNN5705B	Cheek Touch	None	None	0.645	-0.09	1.018	0.711	1.04	0.73
JF-REAR-R3-040804-02/364YEN7JB8	Out	813.5125	SNN5705B	Cheek Touch	None	None	0.644	0.03	0.366	0.259	0.37	0.26
JF-REAR-R3-040804-03/364YEN7JB8	In	813.5125	SNN5705B	15° tilt	None	None	0.640	0.03	0.652	0.454	0.65	0.45
JF-REAR-R3-040804-05/364YEN7JB8	Out	813.5125	SNN5705B	15° tilt	None	None	0.640	-0.26	0.487	0.343	0.52	0.36
Band edge assessment at the Right ear with worst case configuration from above (1:3)												
JF-REAR-R3-040804-06/364YEN7JB8	In	806.0125	SNN5705B	Cheek Touch	None	None	0.624	-0.03	0.800	0.559	0.83	0.58
JF-REAR-R3-040804-07/364YEN7JB8	Out	806.0125	SNN5705B	Cheek Touch	None	None	0.624	0.03	0.403	0.288	0.41	0.30
JF-REAR-R3-040804-08/364YEN7JB8	In	824.9875	SNN5705B	Cheek Touch	None	None	0.655	-0.04	0.918	0.646	0.93	0.65
JF-REAR-R3-040804-09/364YEN7JB8	Out	824.9875	SNN5705B	Cheek Touch	None	None	0.654	0.07	0.377	0.269	0.38	0.27
Assessment at the Face (1:6)												
CM-FACE-R3-040805-06/364YEN7JB8	In	813.5125	SNN5705B	DUT front , 2.5cm	None	None	0.657	0.04	0.157	0.113	0.08 *	0.06
CM-FACE-R3-040805-07/364YEN7JB8	Out	813.5125	SNN5705B	DUT front , 2.5cm	None	None	0.654	0.04	0.092	0.067	0.05	0.03
CM-FACE-R3-040805-08/364YEN7JB8	In	813.5125	SNN5705B	DUT front , 2.5cm	None	None	0.625	0.01	0.151	0.108	0.08	0.06
CM-FACE-R3-040805-09/364YEN7JB8	In	813.5125	SNN5705B	DUT front , 2.5cm	None	None	0.640	0.05	0.145	0.105	0.07	0.05
*Assessment with the worst case test configuration at the face using the full DASy coarse and 7x7x7 cube scan measurements.												
CM-FACE-R3-040805-15/364YEN7JB8	In	813.5125	SNN5705B	DUT front , 2.5cm	None	None	0.654	0.05	0.146	0.105	0.07	0.05

Table 2

DUT assessment at the head; Cheek Touch, Tilt, and edges and Face; 1:3 mode at head, 1:6 mode at face; 896-902MHz band												
Run Number/ SN	Antenna Position	Freq. (MHz)	Battery	Test position	Carry Case	Additional attachments	Initial Power (W)	S.A.R. Drift (dB)	Meas. 1g-S.A.R. (mW/g)	Meas. 10g-S.A.R. (mW/g)	Max Calc. 1g-S.A.R. (mW/g)	Max Calc. 10g-S.A.R. (mW/g)
Assessment at the left Ear (1:3)												
CM-LEAR-R3-040803-06/364YEN7JB8	In	899.66875	SNN5705B	Cheek Touch	None	None	0.593	0.12	0.899	0.621	0.97	0.67
CM-LEAR-R3-040803-07/364YEN7JB8	Out	899.66875	SNN5705B	Cheek Touch	None	None	0.591	-0.06	0.372	0.258	0.41	0.28
CM-LEAR-R3-040803-08/364YEN7JB8	In	899.66875	SNN5705C	Cheek Touch	None	None	0.596	-0.06	0.877	0.606	0.95	0.66
CM-LEAR-R3-040803-09/364YEN7JB8	In	899.66875	SNN5704A	Cheek Touch	None	None	0.603	-0.02	0.908	0.625	0.97	0.67
CM-LEAR-R3-040803-10/364YEN7JB8	In	899.66875	SNN5704C	Cheek Touch	None	None	0.600	-0.06	0.820	0.570	0.89	0.62
CM-LEAR-R3-040803-11/364YEN7JB8	In	899.66875	SNN5705B	15° tilt	None	None	0.601	-0.01	0.549	0.381	0.59	0.41
CM-LEAR-R3-040803-13/364YEN7JB8	Out	896.01875	SNN5704C	Cheek Touch	None	None	0.599	0.20	0.792	0.538	0.85	0.57
Band edge assessment at the Left ear (1:3)												
CM-LEAR-R3-040803-14/364YEN7JB8	In	896.01875	SNN5705B	Cheek Touch	None	None	0.598	0.02	0.926	0.644	0.99 *	0.69
CM-LEAR-R3-040803-15/364YEN7JB8	Out	896.01875	SNN5705B	Cheek Touch	None	None	0.603	-0.07	0.372	0.259	0.40	0.28
CM-LEAR-R3-040803-16/364YEN7JB8	In	901.98125	SNN5705B	Cheek Touch	None	None	0.594	-0.06	0.886	0.613	0.97	0.67
CM-LEAR-R3-040803-17/364YEN7JB8	Out	901.98125	SNN5705B	Cheek Touch	None	None	0.597	-0.03	0.345	0.242	0.37	0.26
*Assessment with the worst case test configuration at the head using the full DASy coarse and 7x7x7 cube scan measurements.												
CM-LEAR-R3-040804-23/364YEN7JB8	In	896.01875	SNN5705B	Cheek Touch	None	None	0.623	0.00	0.957	0.653	0.98	0.67
Assessment at the Right Ear (1:3)												
JF-REAR-R3-040804-10/364YEN7JB8	In	896.01875	SNN5705B	Cheek Touch	None	None	0.598	-0.04	0.838	0.572	0.91	0.62
CM-REAR-R3-040804-11/364YEN7JB8	Out	896.01875	SNN5705B	Cheek Touch	None	None	0.597	-0.05	0.330	0.227	0.36	0.25
CM-REAR-R3-040804-12/364YEN7JB8	In	896.01875	SNN5705B	15° tilt	None	None	0.596	-0.09	0.525	0.359	0.58	0.39
CM-REAR-R3-040804-15/364YEN7JB8	Out	896.01875	SNN5705B	15° tilt	None	None	0.598	0.16	0.707	0.491	0.76	0.53
Band edge assessment at the Right ear with worst case configuration from above (1:3)												
CM-REAR-R3-040804-16/364YEN7JB8	In	899.66875	SNN5705B	Cheek Touch	None	None	0.594	-0.13	0.821	0.568	0.91	0.63
CM-REAR-R3-040804-17/364YEN7JB8	Out	899.66875	SNN5705B	Cheek Touch	None	None	0.599	-0.08	0.330	0.228	0.36	0.25

Table 2 (continued)

Run Number/ SN	Antenna Position	Freq. (MHz)	Battery	Test position	Carry Case	Additional attachments	Initial Power (W)	S.A.R. Drift (dB)	Meas. 1g-S.A.R. (mW/g)	Meas. 10g-S.A.R. (mW/g)	Max Calc. 1g-S.A.R. (mW/g)	Max Calc. 10g-S.A.R. (mW/g)
CM-REAR-R3-040804-20/364YEN7JB8	In	901.98125	SNN5705B	Cheek Touch	None	None	0.584	-0.13	0.810	0.556	0.91	0.63
CM-REAR-R3-040804-22/364YEN7JB8	Out	901.98125	SNN5705B	Cheek Touch	None	None	0.589	-0.14	0.396	0.274	0.44	0.31
Assessment at the Face (1:6)												
CM-FACE-R3-040805-10/364YEN7JB8	In	899.66875	SNN5705B	DUT front 2.5cm	None	None	0.612	-0.03	0.135	0.096	0.07	0.05
CM-FACE-R3-040805-11/364YEN7JB8	Out	899.66875	SNN5705B	DUT front 2.5cm	None	None	0.618	0.01	0.088	0.063	0.05	0.03
CM-FACE-R3-040805-12/364YEN7JB8	In	896.01875	SNN5705B	DUT front 2.5cm	None	None	0.620	0.45	0.152	0.108	0.08	0.06
CM-FACE-R3-040805-14/364YEN7H7H	In	896.01875	SNN5705B	DUT front 2.5cm	None	None	0.637	-0.06	0.155	0.110	0.08*	0.06
CM-FACE-R3-040805-13/364YEN7JB8	In	901.98125	SNN5705B	DUT front 2.5cm	None	None	0.616	0.01	0.143	0.102	0.07	0.05
*Assessment with the worst case test configuration at the face using the full DASy coarse and 7x7x7 cube scan measurements.												
CM-FACE-R3-040805-16/364YEN7JB8	In	896.01875	SNN5705B	DUT front 2.5cm	None	None	0.635	-0.09	0.154	0.109	0.08	0.06

Table 3

DUT assessment at the body; against phantom, band edges, and 2.5cm separation; 81:120, 1:3 modes; 806-825MHz band												
Run Number/ SN	Antenna Position	Freq. (MHz)	Battery	Test position	Carry Case	Additional attachments	Initial Power (W)	S.A.R. Drift (dB)	Meas. 1g-S.A.R. (mW/g)	Meas. 10g-S.A.R. (mW/g)	Max Calc. 1g-S.A.R. (mW/g)	Max Calc. 10g-S.A.R. (mW/g)
Assessment of offered battery and offered body worn accessory (81:120 mode)												
CM-Ab-R3-040806-07/364YEN7JB8	In	813.5125	SNN5705B	Against phantom	NNTN5821A	None	0.635	-0.27	1.076	0.761	1.15	0.82
CM-Ab-R3-040806-08/364YEN7JB8	Out	813.5125	SNN5705B	Against phantom	NNTN5821A	None	0.629	-0.44	0.587	0.415	0.66	0.47
CM-Ab-R3-040806-09/364YEN7JB8	In	813.5125	SNN5704C	Against phantom	NNTN5821A	None	0.633	-0.36	1.105	0.777	1.21	0.85
CM-Ab-R3-040806-10/364YEN7JB8	Out	813.5125	SNN5704C	Against phantom	NNTN5821A	None	0.631	-0.57	0.560	0.396	0.65	0.46
CM-Ab-R3-040806-11/364YEN7JB8	In	813.5125	SNN5704C	Against phantom	NNTN5821A	NKN6559A	0.634	-0.40	0.484	0.344	0.54	0.38
CM-Ab-R3-040806-12/364YEN7JB8	Out	813.5125	SNN5704C	Against phantom	NNTN5821A	NKN6559A	0.651	-0.41	0.301	0.212	0.33	0.23
CM-Ab-R3-040806-13/364YEN7JB8	In	813.5125	SNN5704C	Against phantom	NNTN5821A	NKN6560A	0.658	-0.22	0.601	0.427	0.63	0.45
CM-Ab-R3-040806-14/364YEN7JB8	Out	813.5125	SNN5704C	Against phantom	NNTN5821A	NKN6560A	0.643	-0.49	0.453	0.321	0.51	0.36
Assessment of audio accessories (81:120)												
CM-Ab-R3-040806-15/364YEN7JB8	In	813.5125	SNN5704C	Against phantom	NNTN5821A	NNTN4620A	0.650	-0.03	0.547	0.387	0.55	0.39
CM-Ab-R3-040806-16/364YEN7JB8	In		SNN5704C	Against phantom	NNTN5821A	SYN8390B	0.645	-0.12	0.556	0.394	0.57	0.41
CM-Ab-R3-040806-17/364YEN7JB8	In	813.5125	SNN5704C	Against phantom	NNTN5821A	SYN8146C	0.649	0.04	0.536	0.380	0.54	0.38
CM-Ab-R3-040806-18/364YEN7JB8	In	813.5125	SNN5704C	Against phantom	NNTN5821A	NTN8496A	0.647	-0.07	0.519	0.369	0.53	0.37

Table 3 (continued)

Run Number/ SN	Antenna Position	Freq. (MHz)	Battery	Test position	Carry Case	Additional attachments	Initial Power (W)	S.A.R. Drift (dB)	Meas. 1g-S.A.R. (mW/g)	Meas. 10g-S.A.R. (mW/g)	Max Calc. 1g-S.A.R. (mW/g)	Max Calc. 10g-S.A.R. (mW/g)
CM-Ab-R3-040806-19/364YEN7JB8	In	813.5125	SNN5704C	Against phantom	NNTN5821A	NNTN4033A	0.657	-0.15	0.558	0.396	0.58	0.41
CM-Ab-R3-040809-02/364YEN7JB8	In	813.5125	SNN5704C	Against phantom	NNTN5821A	NTN8513B	0.655	-0.09	0.515	0.364	0.53	0.37
CM-Ab-R3-040809-03/364YEN7JB8	In	813.5125	SNN5704C	Against phantom	NNTN5821A	SYN7875C	0.667	-0.12	0.568	0.403	0.58	0.41
CM-Ab-R3-040809-05/364YEN7JB8	In	813.5125	SNN5704C	Against phantom	NNTN5821A	NSN6066A	0.663	-0.04	0.313	0.222	0.32	0.22
CM-Ab-R3-040809-04/364YEN7JB8	In	813.5125	SNN5704C	Against phantom	NNTN5821A	NNTN5004A	0.665	-0.09	0.569	0.405	0.58	0.41
CM-Ab-R3-040809-07/364YEN7JB8	In	813.5125	SNN5704C	Against phantom	NNTN5821A	NNTN5005A	0.664	-0.10	0.597	0.425	0.61	0.43
CM-Ab-R3-040809-08/364YEN7JB8	In	813.5125	SNN5704C	Against phantom	NNTN5821A	NNTN5006A	0.668	-0.06	0.591	0.419	0.60	0.42
CM-Ab-R3-040809-06/364YEN7JB8	In	813.5125	SNN5704C	Against phantom	NNTN5821A	NNTN5211A	0.661	0.02	0.610	0.432	0.61	0.43
CM-Ab-R3-040809-09/364YEN7JB8	In	813.5125	SNN5704C	Against phantom	NNTN5821A	NNTN5330A	0.667	-0.02	0.605	0.429	0.61	0.43
CM-Ab-R3-040809-10/364YEN7JB8	In	813.5125	SNN5704C	Against phantom	NNTN5821A	NNTN5751A	0.660	0.02	0.578	0.411	0.58	0.41
Band edge assessment at the body w/ worst case configuration from above (81:120)												
CM-Ab-R3-040809-11/364YEN7JB8	In	806.0125	SNN5704C	Against phantom	NNTN5821A	None	0.607	-0.31	1.029	0.726	1.17	0.82
JF-Ab-R3-040810-02/364YEN7JB8	Out	806.0125	SNN5704C	Against phantom	NNTN5821A	None	0.607	-0.31	0.537	0.380	0.61	0.43
JF-Ab-R3-040810-03/364YEN7JB8	In	824.9875	SNN5704C	Against phantom	NNTN5821A	None	0.615	-0.40	1.221	0.865	1.39*	0.99
JF-Ab-R3-040810-04/364YEN7JB8	Out	824.9875	SNN5704C	Against phantom	NNTN5821A	None	0.615	-0.64	0.593	0.423	0.72	0.51
*Assessment with the worst case test configuration at the body using the full DASY coarse and 7x7x7 cube scan measurements.												
CM-Ab-R3-040812-04/364YEN7JB8	In	824.9875	SNN5704C	Against phantom	NNTN5821A	None	0.618	-0.69	1.060	0.771	1.29	0.94
CM-Ab-R3-040812-05/364YEN7JB8 (Shortened scan)	In	824.9875	SNN5704C	Against phantom	NNTN5821A	None	0.609	-0.49	1.170	0.858	1.38	1.01

Table 4

DUT assessment at the body; across the band, with worst case test configuration from 800MHz band assessment; 1:3, mode; 896-902MHz band												
Run Number/ SN	Antenna Position	Freq. (MHz)	Battery	Test position	Carry Case	Additional attachments	Initial Power (W)	S.A.R. Drift (dB)	Meas. 1g-S.A.R. (mW/g)	Meas. 10g-S.A.R. (mW/g)	Max Calc. 1g-S.A.R. (mW/g)	Max Calc. 10g-S.A.R. (mW/g)
Assessment with worst case configuration from 800MHz assessment												
CM-Ab-R3-040810-08/364YEN7JB8	In	899.66875	SNN5704C	Against phantom	NNTN5821A	NNTN5005A	0.616	0.00	0.542	0.377	0.56*	0.39
CM-Ab-R3-040810-06/364YEN7JB8	Out	899.66875	SNN5704C	Against phantom	NNTN5821A	NNTN5005A	0.615	0.06	0.292	0.204	0.30	0.21
CM-Ab-R3-040810-07/364YEN7JB8	In	896.01875	SNN5704C	Against phantom	NNTN5821A	NNTN5005A	0.629	-0.01	0.532	0.371	0.54	0.38
CM-Ab-R3-040810-09/364YEN7JB8	Out	896.01875	SNN5704C	Against phantom	NNTN5821A	NNTN5005A	0.628	0.10	0.326	0.227	0.33	0.23
CM-Ab-R3-040810-10/364YEN7JB8	In	901.98125	SNN5704C	Against phantom	NNTN5821A	NNTN5005A	0.615	-0.03	0.517	0.361	0.54	0.38
CM-Ab-R3-040810-11/364YEN7JB8	Out	901.98125	SNN5704C	Against phantom	NNTN5821A	NNTN5005A	0.620	0.01	0.293	0.205	0.30	0.21
*Assessment with the worst case test configuration at the body using the full DASY coarse and 7x7x7 cube scan measurements.												
CM-Ab-R3-040810-16/364YEN7JB8	In	899.66875	SNN5704C	Against phantom	NNTN5821A	NNTN5005A	0.618	-0.02	0.511	0.361	0.53	0.38

Table 5

Run Number/ SN	Antenna Position	Freq. (MHz)	Battery	Test position	Carry Case	Additional attachments	Initial Power (W)	S.A.R. Drift (dB)	Meas. 1g-S.A.R. (mW/g)	Meas. 10g-S.A.R. (mW/g)	Max Calc. 1g-S.A.R. (mW/g)	Max Calc. 10g-S.A.R. (mW/g)
Assessment at 2.5cm using the worst case frequency and offered battery from both 800Mhz and 900Mhz assessments												
JF-Ab-R3-040812-02/364YEN7JB8	In	824.9875	SNN5704C	DUT Back 2.5cm	None	None	0.610	-0.43	0.809	0.575	0.94	0.67
CM-Ab-R3-040812-03/364YEN7JB8	In	824.9875	SNN5704C	DUT Front 2.5cm	None	None	0.615	-0.43	0.683	0.492	0.78	0.57

7.2 Peak S.A.R. location

Refer to APPENDIX B for detailed S.A.R. scan distributions.

7.3 Highest S.A.R. results calculation methodology

The calculated maximum 1-gram and 10-gram averaged S.A.R. results reported herein for the full DASYSTM coarse and 7x7x7 cube measurements are determined by scaling the measured S.A.R. to account for power leveling variations and power slump. For this device the Maximum Calculated 1-gram and 10-gram averaged peak S.A.R. is calculated using the following formula:

$$\text{Max. Calc. 1-g Avg. SAR} = ((\text{S.A.R. meas.} / (10^{(\text{Pdrift}/10)})) * (\text{Pmax}/\text{Pint})) * \text{DC}\%$$

P_{max} = Maximum Power (W)

P_{int} = Initial Power (W)

Pdrift = DASYS drift results (dB)

SAR_{meas} = Measured 1 gram averaged peak S.A.R. (mW/g)

DC % = Transmission mode duty cycle in % where applicable

Note that the use of the above formula should consider the relationship between the initial power, max power, and drift. Also, a 50% duty cycle is applied for PTT operation.

8.0 Conclusion

The highest Operational Maximum Calculated 1-gram and 10-gram average S.A.R. values found for FCC ID: AZ489FT5839 model H45XAN6RR4AN/NUF3975A00.

At the Body: 1-g Avg. = 1.38 mW/g; 10-g Avg. = 1.01 mW/g

At the Face: 1-g Avg. = 0.08 mW/g; 10-g Avg. = 0.06 mW/g

At the Head: 1-g Avg. = 1.16 mW/g; 10-g Avg. = 0.80 mW/g

These test results clearly demonstrate compliance with FCC General Population/Uncontrolled RF Exposure limits of **1.6 mW/g** per the requirements of 47 CFR 2.1093(d).