

	Test Report Serial No.:	020906PBW-T719b-S15T	Report Issue No.:	S719b-030806-R0
	Date(s) of Evaluation:	March 06, 2006	Report Issue Date:	March 08, 2006
	Description of Test(s):	RF Exposure SAR	FCC 47 CFR §2.1093	IC RSS-102 Issue 2

RF EXPOSURE EVALUATION

SPECIFIC ABSORPTION RATE

SAR TEST REPORT

FOR

ASCALADE TECHNOLOGIES INC.

**PORTABLE UPCS DECT BABY MONITOR
(PARENT TRANSMITTER UNIT)**

MODEL(S): SAFETY 1ST 08053, 08232

FCC ID: PBWDJG08053R

IC ID: 3842A-08053

Test Report Serial Number

020906PBW-T719b-S15T

Test Report Issue No.

S719b-030806-R0

Test Lab

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Celltech Labs Inc.**

Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				Ascalade
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DECLARATION OF COMPLIANCE SAR RF EXPOSURE EVALUATION

Test Lab

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Applicant Information

ASCALADE TECHNOLOGIES INC.
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Canada

FCC ID: PBWDJG08053R
IC ID: 3842A-08053
Model(s) Tested: Safety 1st 08053, 08232

SAR Test Requirement(s): FCC 47 CFR §2.1093; Health Canada Safety Code 6
SAR Test Procedure(s): FCC OET Bulletin 65, Supplement C (Edition 01-01)
Industry Canada RSS-102 Issue 2
Device Classification: Part 15 Unlicensed PCS portable Tx held to face (PUF)
Device Description: Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)

Transmit Frequency Range: 1921.536 - 1928.448 MHz
Mode of Operation: TDMA (Time Division Multiple Access)
Modulation Scheme: GFSK (Gaussian Frequency Shift Keying)
Max. RF Output Power Level Measured: 13.38 dBm (21.78 mW) EIRP (1924.992 MHz)
Source-Based Time-Av. Duty Cycle Tested: 4 % (Crest Factor: 1:25)
Max. Source-Based Time-Av. Power Tested: -0.60 dBm (0.87 mW) EIRP (1924.992 MHz)

Antenna Type(s) Tested: Internal (pre-formed wire soldered on PCB)
Battery Type(s) Tested: NiMH 1.2 V, 1300 mAh AA (x2)
Body-Worn Accessories Tested: n/a (Baby Monitors do not have provision for body-worn transmit operation)
Audio Accessories Tested: n/a (Baby Monitors do not have provision for audio accessory operation)

Max. SAR Level(s) Evaluated: Face-Held: 0.00086 W/kg (Peak SAR measured from Area Scan)

Celltech Labs Inc. declares under its sole responsibility that this wireless portable device is 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) 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.



Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				<i>Ascalade</i>
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	Description of Test(s):	RF Exposure SAR	FCC 47 CFR §2.1093	IC RSS-102 Issue 2

1.0 INTRODUCTION

This measurement report demonstrates compliance of the Ascalade Technologies Inc. Model(s): Safety 1st 08053, 08232 Portable UPCS DECT Baby Monitor Transmitter (Parent Unit) FCC ID: PBWDJG08053R 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]) and IC RSS-102 Issue 2 (see reference [4]), were employed. A description of the product, 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)

SAR Test Requirement(s)	FCC Rule Part 47 CFR §2.1093				
	Health Canada Safety Code 6				
SAR Test Procedure(s)	FCC OET Bulletin 65, Supplement C (01-01)				
	Industry Canada RSS-102 Issue 2				
FCC Device Classification	Part 15 Unlicensed PCS portable Tx held to face (PUF)			15(D)	
IC Device Classification	2 GHz Licence-Exempt Personal Communications Service Devices (LE-PCS)			RSS-213 Issue 2	
Device Description	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				
RF Exposure Category	General Population / Uncontrolled Exposure Environment				
FCC IDENTIFIER	PBWDJG08053R				
IC IDENTIFIER	3842A-08053				
Model(s)	08053		08232		
Trade Name(s)	Safety 1st				
Test Sample Serial No.(s)	Model: 08053	S/N: 08053G000010		Identical Prototype	
	Model: 08232	S/N: 08232G000010		Identical Prototype	
Transmit Frequency Range	1921.536 - 1928.448 MHz				
Mode of Operation	TDMA			Time Division Multiple Access	
Modulation Scheme	GFSK			Guassian Frequency Shift Keying	
Max. RF Output Power Measured	Model: 08053	13.38 dBm	21.78 mW	EIRP	1924.992 MHz
	Model: 08232	11.30 dBm	13.49 mW	EIRP	1924.992 MHz
Source-Based Time-Averaged RF Output Power Tested	Model: 08053	-0.60 dBm	0.87 mW	EIRP	1924.992 MHz
	Model: 08232	-2.68 dBm	0.54 mW	EIRP	1924.992 MHz
Source-Based Time-Averaged Duty Cycle Tested	4 %			Crest Factor: 1:25	
Battery Type(s) Tested	NiMH	1.2 V		1300 mAh	AA (x2)
Antenna Type(s) Tested	Internal (pre-formed wire soldered on PCB)				
Body-Worn Accessories Tested	n/a (Baby Monitors do not have provision for body-worn transmit operation)				
Audio Accessories Tested	n/a (Baby Monitors do not have provision for audio accessory operation)				

Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				
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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 various 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 Measurement System with SAM Phantom and device holder



DASY4 Measurement System with SAM Phantom and validation dipole

FACE-HELD SAR EVALUATION RESULTS										
Freq. (MHz)	Chan.	Test Mode	Battery Tested		DUT Model	Phantom Section	Separation Distance to Planar Phantom (cm)	Start Power EIRP (mW)		Peak SAR Measured from Area Scan ² (W/kg)
			Type	mAh				Measured	SBTA	
1924.992	3	TDMA	NiMH	1300	08053	Planar	2.5	21.78	0.87	0.00086
1924.992	3	TDMA	NiMH	1300	08232	Planar	2.5	13.49	0.54	0.00062
ANSI / IEEE C95.1 1999 SAFETY LIMIT				BRAIN: 1.6 W/kg (averaged over 1 gram)			Spatial Peak Uncontrolled Exposure / General Population			
Test Date(s)		March 06, 2006				Relative Humidity		30	%	
Measured Fluid Type		1920 MHz Brain				Atmospheric Pressure		102.1	kPa	
Dielectric Constant ϵ_r		IEEE Target		Measured	Deviation	Ambient Temperature		24.0	°C	
		40.0	± 5%	38.5	-3.8%	Fluid Temperature		23.8	°C	
Conductivity σ (mho/m)		IEEE Target		Measured	Deviation	Fluid Depth		≥ 15	cm	
		1.40	± 5%	1.40	0.0%	ρ (Kg/m ³)		1000		

Configuration				Polarity	Distance	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Substituted SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	Measured EIRP Carrier Level		Duty Cycle		EIRP Carrier Level corrected for duty cycle	
EUT#	Orientation	Power Source	Accessory										m	MHz	dBuV/m	dBuV	dBm	dBi
08053	Vpol	NIMH-1300	none	V	3	Horn SN6276	3	1924.9920	107.65	74.42	4.47	8.91	13.38	21.78	4.00	-13.98	-0.60	0.87
08232	Vpol	NIMH-1300	none	V	3	Horn SN6276	3	1924.9920	105.73	72.50	2.39	8.91	11.30	13.49	4.00	-13.98	-2.68	0.54

Comment:
Measurement made at a 3 meter distance, with the EUT placed 0.8 meter above the ground plane

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5.0 DETAILS OF SAR EVALUATION

The Ascalade Technologies Inc. Model(s): Safety 1st 08053, 08232 Portable UPCS DECT Baby Monitor Transmitter (Parent Unit) FCC ID: PBWDJG08053R was compliant for localized Specific Absorption Rate (SAR) based on the test provisions and conditions described below. Detailed measurement data and plots showing the maximum SAR location of the DUT are reported in Appendix A. The detailed test setup photographs are shown in Appendix D.

Face-Held Configuration

- 1) The DUT was evaluated in a face-held configuration with the front of the baby monitor placed parallel to the outer surface of the SAM phantom (planar section). A 2.5 cm separation distance was maintained between the front side of the DUT and the outer surface of the SAM phantom (planar section).
- 2) The transmission band of the DUT is less than 10 MHz; therefore mid channel data only is reported (per FCC OET Bulletin 65, Supplement C, Edition 01-01 - see reference [3]).
- 3) The 1g-averaged SAR was not measured because the peak SAR value from the area scan evaluations for each test configuration was less than 1% of the 1g average limit. The peak SAR values measured during the area scan evaluations for each test configuration are reported. The mathematical formula used to extrapolate the SAR value at the surface from the zoom scan SAR values measured at 5 mm steps leading away from the surface assumes a curving slope (i.e. the SAR values gradually decrease as the probe moves away from the surface). When the peak SAR of a device is so low that the RF noise level is competing with the level of the SAR, the Zoom Scan measurements leading away from the surface are no longer a curving slope and the extrapolation formula cannot accurately estimate the 1g average SAR. In this manner, we have reported the peak values from the area scan in place of the 1g averaged SAR values whenever the peak values are less than 1% of the average limit. This avoids gross uncertainties in the 1g average SAR calculation while maintaining a conservative estimation of the SAR level.
- 4) The ambient and fluid temperatures were measured prior to, and during, the fluid dielectric parameter check and the SAR evaluations. The temperatures reported were consistent for all measurement periods.
- 5) The dielectric parameters of the simulated tissue mixture were measured prior to the SAR evaluations using an ALS-PR-DIEL Dielectric Probe Kit and an HP 8753ET Network Analyzer (see Appendix C).
- 6) The SAR measurements were performed within 24 hours of the system performance check.

Test Modes & Power Settings

- 7) The DUT was programmed in continuous transmit operation via internal software controlled by the function buttons.
- 8) The DUT was tested at maximum power in TDMA modulation with a 4% source-based time-averaged duty cycle and a crest factor of 1:25.
- 9) The RF conducted output power of the DUT could not be measured prior to the SAR evaluations due to internal antenna. The DUT was evaluated for SAR at the maximum RF conducted output power level preset by the manufacturer.
- 10) The DUT was evaluated for SAR at the maximum EIRP levels measured prior to the SAR evaluations at Celltech Labs' 3-meter Open Area Test Site (see page 6 for EIRP measurement data) using the signal substitution method in accordance with ANSI/TIA-603-C-2004 (see reference [6]).
- 11) The DUT power drift levels measured by the DASY4 system during the SAR evaluations were inaccurate due to the SAR levels at the reference point were close to the measurement noise floor and therefore were not reported.
- 12) The DUT batteries were fully charged prior to the SAR evaluations.

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Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				
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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 find the points between the dipole center of the probe and the surface of the phantom. This data cannot be measured, since the center of the dipoles is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.4 mm (see probe calibration document in Appendix F). The extrapolation 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.

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7.0 SYSTEM PERFORMANCE CHECK

Prior to the SAR evaluations a system check was performed at the planar section of the SAM phantom with a 1900MHz dipole (see Appendix E 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 plot).

SYSTEM PERFORMANCE CHECK EVALUATION

Test Date	Equiv. Tissue	SAR 1g (W/kg)			Dielectric Constant ϵ_r			Conductivity σ (mho/m)			ρ (Kg/m ³)	Amb. Temp. (°C)	Fluid Temp. (°C)	Fluid Depth (cm)	Humid. (%)	Barom. Press. (kPa)
		IEEE Target	Meas.	Dev.	IEEE Target	Meas.	Dev.	IEEE Target	Meas.	Dev.						
3/6/06	1900MHz Brain	9.93 $\pm 10\%$	10.0	+0.7%	40.0 $\pm 5\%$	38.6	-3.5%	1.40 $\pm 5\%$	1.39	-0.7%	1000	24.0	23.8	≥ 15	30	102.1

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.

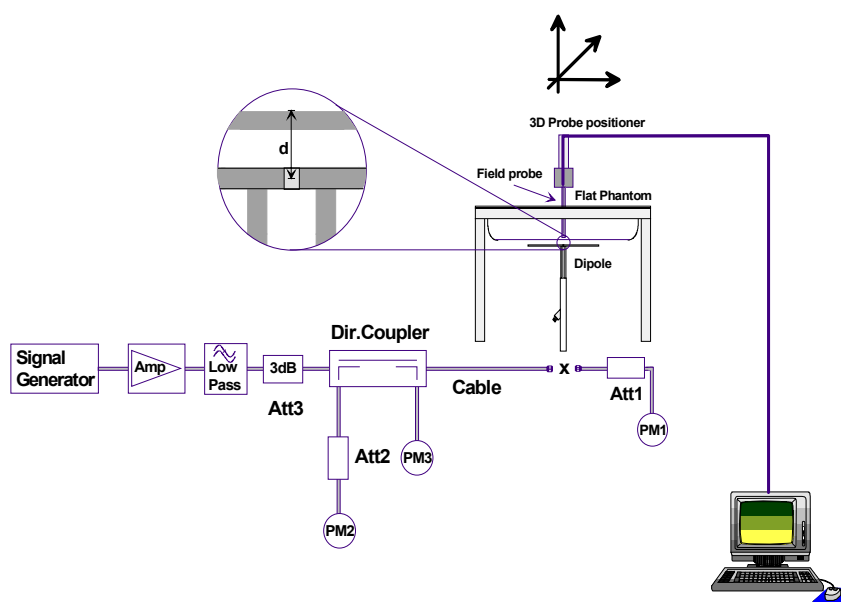


Figure 1. System Performance Check Setup



1900MHz Dipole Setup

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8.0 SIMULATED EQUIVALENT TISSUES

The 1900/1920MHz simulated equivalent tissue mixture consists of Glycol-monobutyl, water, and salt. The fluids were prepared according to standardized procedures and measured for dielectric parameters (permittivity and conductivity).

1900/1920 MHz SIMULATED TISSUE MIXTURE		
INGREDIENT	1900 MHz Brain	1920 MHz Brain
	System Performance Check	DUT Evaluation
Water	55.85 %	55.85 %
Glycol Monobutyl	44.00 %	44.00 %
Salt	0.15 %	0.15 %

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.

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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: ET3DV6
Serial No.: 1590
Construction: Triangular core fiber optic detection system
Frequency: 10 MHz to 6 GHz
Linearity: ± 0.2 dB (30 MHz to 3 GHz)

Phantom(s)

Type: SAM V4.0C
Shell Material: Fiberglass
Thickness: 2.0 ± 0.1 mm
Volume: Approx. 25 liters

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11.0 PROBE SPECIFICATION (ET3DV6)

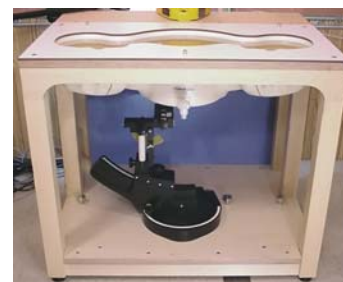
Construction:	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g. glycol)
Calibration:	In air from 10 MHz to 2.5 GHz In brain simulating tissue at frequencies of 900 MHz and 1.8 GHz (accuracy $\pm 8\%$)
Frequency:	10 MHz to >6 GHz; Linearity: ± 0.2 dB (30 MHz to 3 GHz)
Directivity:	± 0.2 dB in brain tissue (rotation around probe axis) ± 0.4 dB in brain tissue (rotation normal to probe axis)
Dynamic Range:	5 μ W/g to >100 mW/g; Linearity: ± 0.2 dB
Surface Detection:	± 0.2 mm repeatability in air and clear liquids over diffuse reflecting surfaces
Dimensions:	Overall length: 330 mm Tip length: 16 mm Body diameter: 12 mm Tip diameter: 6.8 mm Distance from probe tip to dipole centers: 2.7 mm
Application:	General dosimetry up to 3 GHz Compliance tests of mobile phone



ET3DV6 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 G for specifications of the SAM phantom V4.0C).



SAM Phantom V4.0C

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

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Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				Ascalade
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	Test Report Serial No.:	020906PBW-T719b-S15T	Report Issue No.:	S719b-030806-R0
	Date(s) of Evaluation:	March 06, 2006	Report Issue Date:	March 08, 2006
	Description of Test(s):	RF Exposure SAR	FCC 47 CFR §2.1093	IC RSS-102 Issue 2

14.0 TEST EQUIPMENT LIST

USED	TEST EQUIPMENT DESCRIPTION	ASSET NO.	SERIAL NO.	DATE CALIBRATED	CALIBRATION DUE DATE
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	08Feb06	08Feb07
	-ET3DV6 E-Field Probe	00016	1387	18Mar05	18Mar06
x	-ET3DV6 E-Field Probe	00017	1590	20May05	20May06
	-EX3DV4 E-Field Probe	00125	3547	14Feb06	14Feb07
	-300MHz Validation Dipole	00023	135	25Oct05	25Oct06
	-450MHz Validation Dipole	00024	136	25Oct05	25Oct06
	-835MHz Validation Dipole	00022	411	Brain	30Mar05
				Body	12Apr05
	-900MHz Validation Dipole	00020	054	Brain	10Jun05
				Body	10Jun05
	-1800MHz Validation Dipole	00021	247	Brain	14Jun05
				Body	14Jun05
x	-1900MHz Validation Dipole	00032	151	Brain	17Jun05
				Body	22Apr05
	-2450MHz Validation Dipole	00025	150	Brain	20Sep05
				Body	22Apr05
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
	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
	Rohde & Schwarz SMR40 Signal Generator	00006	100104	12Apr05	12Apr06
x	Amplifier Research 5S1G4 Power Amplifier	00106	26235	N/A	N/A

Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				Ascalade
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	Test Report Serial No.:	020906PBW-T719b-S15T	Report Issue No.:	S719b-030806-R0
	Date(s) of Evaluation:	March 06, 2006	Report Issue Date:	March 08, 2006
	Description of Test(s):	RF Exposure SAR	FCC 47 CFR §2.1093	IC RSS-102 Issue 2

15.0 MEASUREMENT UNCERTAINTIES

UNCERTAINTY BUDGET FOR DEVICE EVALUATION						
Error Description	Uncertainty Value ±%	Probability Distribution	Divisor	ci 1g	Uncertainty Value ±% (1g)	V _i or V _{eff}
Measurement System						
Probe calibration	3.5	Normal	1	1	3.5	∞
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	1	Rectangular	1.732050808	1	0.6	∞
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	0.4	Rectangular	1.732050808	1	0.2	∞
Probe positioning	2.9	Rectangular	1.732050808	1	1.7	∞
Extrapolation & integration	1	Rectangular	1.732050808	1	0.6	∞
Test Sample Related						
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	∞
Phantom and Setup						
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	∞
Combined Standard Uncertainty					9.69	
Expanded Uncertainty (k=2)					19.39	

Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003 (see reference [5])

Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				<i>Ascalade</i>
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MEASUREMENT UNCERTAINTIES (CONT.)

UNCERTAINTY BUDGET FOR SYSTEM VALIDATION						
Error Description	Uncertainty Value ±%	Probability Distribution	Divisor	ci 1g	Uncertainty Value ±% (1g)	V _i or V _{eff}
Measurement System						
Probe calibration	5.5	Normal	1	1	5.5	∞
Axial isotropy of the probe	4.7	Rectangular	1.732050808	1	2.7	∞
Spherical isotropy of the probe	0	Rectangular	1.732050808	1	0.0	∞
Spatial resolution	0	Rectangular	1.732050808	1	0.0	∞
Boundary effects	1	Rectangular	1.732050808	1	0.6	∞
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	∞
Mech. constraints of robot	0.4	Rectangular	1.732050808	1	0.2	∞
Probe positioning	2.9	Rectangular	1.732050808	1	1.7	∞
Extrapolation & integration	1	Rectangular	1.732050808	1	0.6	∞
Test Sample Related						
Dipole Positioning	2	Normal	1.732050808	1	1.2	∞
Power & Power Drift	4.7	Normal	1.732050808	1	2.7	∞
Phantom and Setup						
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	∞
Combined Standard Uncertainty					8.79	
Expanded Uncertainty (k=2)					17.57	

Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003 (see reference [5])

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	Date(s) of Evaluation:	March 06, 2006	Report Issue Date:	March 08, 2006
	Description of Test(s):	RF Exposure SAR	FCC 47 CFR §2.1093	IC RSS-102 Issue 2

16.0 REFERENCES

- [1] Federal Communications Commission, "Radiofrequency radiation exposure evaluation: portable devices", Rule Part 47 CFR §2.1093: 1999.
- [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] Industry Canada, "Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)", Radio Standards Specification RSS-102 Issue 2: November 2005.
- [5] 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.
- [6] ANSI/TIA-603-C, "Land Mobile FM or PM Communications Equipment - Measurement and Performance Standards": December 2004.

Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				<i>Ascalade</i>
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	Description of Test(s):	RF Exposure SAR	FCC 47 CFR §2.1093	IC RSS-102 Issue 2

APPENDIX A - SAR MEASUREMENT DATA

Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				Ascalade
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	Date(s) of Evaluation:	March 06, 2006	Report Issue Date:	March 08, 2006
	Description of Test(s):	RF Exposure SAR	FCC 47 CFR §2.1093	IC RSS-102 Issue 2

Date Tested: 03/06/2006

Face-Held SAR - DUT Model: 08053 - Mid Channel - 1924.992 MHz

DUT: Ascalade; Model: 08053; Type: UPCS DECT Baby Monitor Transmitter (Parent Unit); Serial: 08053G000010

Ambient Temp: 24.0 °C; Fluid Temp: 23.8 °C; Barometric Pressure: 102.1kPa; Humidity: 30%

Communication System: TDMA

RF Output Power: 21.78 mW (EIRP)

1.2V, 1300mAh AA NiMH Batteries (x2)

Frequency: 1924.992 MHz; Channel 3; Duty Cycle: 1:25

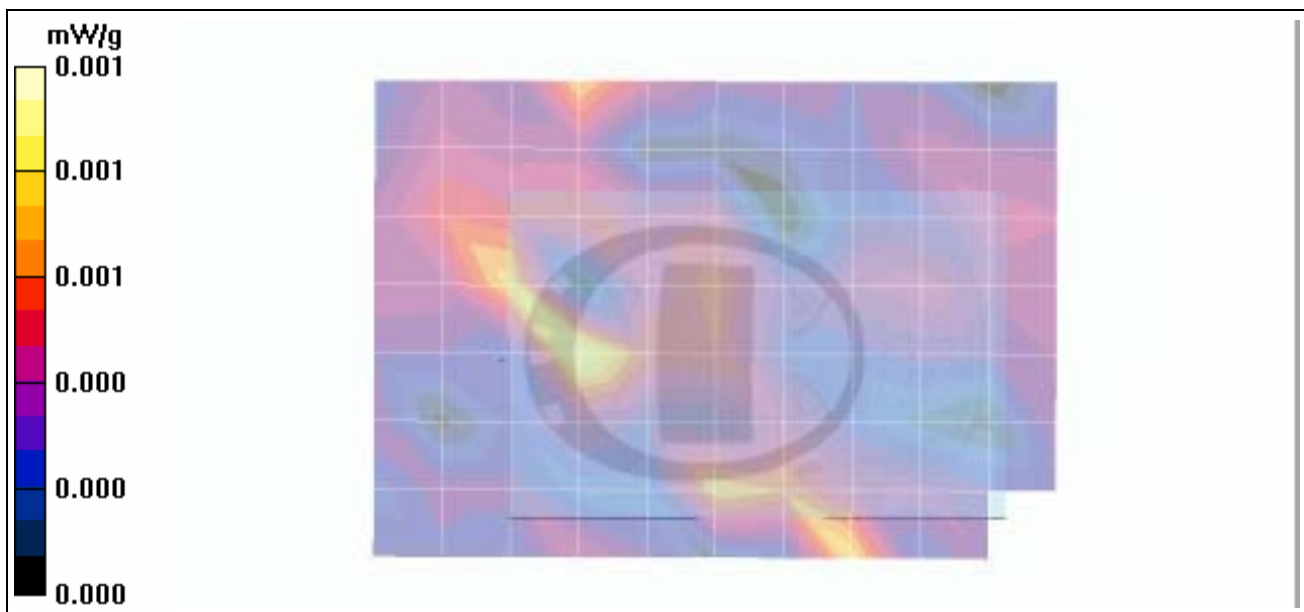
Medium: HSL1920 ($\sigma = 1.40 \text{ mho/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$)

- Probe: ET3DV6 - SN1590; ConvF(5.3, 5.3, 5.3); Calibrated: 20/05/2005
- Sensor-Surface: 4mm (Mechanical And Optical 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

Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - Mid Channel

Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum Peak Value of SAR (measured) = 0.00086 mW/g



Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				<i>Ascalade</i>
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	Test Report Serial No.:	020906PBW-T719b-S15T	Report Issue No.:	S719b-030806-R0
	Date(s) of Evaluation:	March 06, 2006	Report Issue Date:	March 08, 2006
	Description of Test(s):	RF Exposure SAR	FCC 47 CFR §2.1093	IC RSS-102 Issue 2

Date Tested: 03/06/2006

Face-Held SAR - DUT Model: 08232 - Mid Channel - 1924.992 MHz

DUT: Ascalade; Model: 08232; Type: UPCS DECT Baby Monitor Transmitter (Parent Unit); Serial: 08232G000010

Ambient Temp: 24.0 °C; Fluid Temp: 23.8 °C; Barometric Pressure: 102.1kPa; Humidity: 30%

Communication System: TDMA

RF Output Power: 13.49 mW (EIRP)

1.2V, 1300mAh AA NiMH Batteries (x2)

Frequency: 1924.992 MHz; Channel 3; Duty Cycle: 1:25

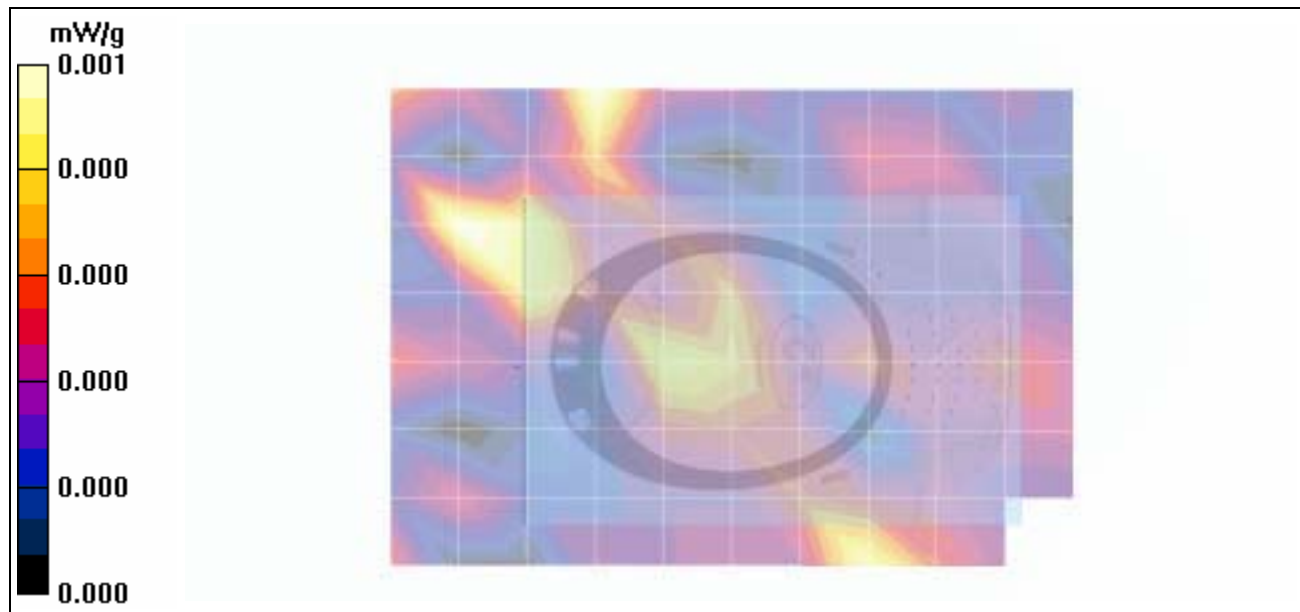
Medium: HSL1920 ($\sigma = 1.40$ mho/m; $\epsilon_r = 38.5$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(5.3, 5.3, 5.3); Calibrated: 20/05/2005
- Sensor-Surface: 4mm (Mechanical And Optical 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

Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - Mid Channel

Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum Peak Value of SAR (measured) = 0.00062 mW/g



Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				<i>Ascalade</i>
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	Description of Test(s):	RF Exposure SAR	FCC 47 CFR §2.1093	IC RSS-102 Issue 2

Fluid Depth (>15cm)



Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz	
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				Ascalade	
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	Test Report Serial No.:	020906PBW-T719b-S15T	Report Issue No.:	S719b-030806-R0
	Date(s) of Evaluation:	March 06, 2006	Report Issue Date:	March 08, 2006
	Description of Test(s):	RF Exposure SAR	FCC 47 CFR §2.1093	IC RSS-102 Issue 2

APPENDIX B - SYSTEM PERFORMANCE CHECK DATA

Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				Ascalade
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	Date(s) of Evaluation:	March 06, 2006	Report Issue Date:	March 08, 2006
	Description of Test(s):	RF Exposure SAR	FCC 47 CFR §2.1093	IC RSS-102 Issue 2

Date Tested: 03/06/2006

System Performance Check (Brain) - 1900 MHz Dipole

DUT: Dipole 1900 MHz; Model: D1900V2; Type: System Performance Check; Serial: 151; Calibrated: 06/17/2005

Ambient Temp: 24.0 °C; Fluid Temp: 23.8 °C; Barometric Pressure: 102.1 kPa; Humidity: 30%

Communication System: CW

Forward Conducted Power: 250 mW

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900 ($\sigma = 1.39$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(5.44, 5.44, 5.44); Calibrated: 20/05/2005
- Sensor-Surface: 4mm (Mechanical And Optical 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

1900 MHz Dipole - System Performance Check/Area Scan (5x8x1):

Measurement grid: dx=15mm, dy=15mm

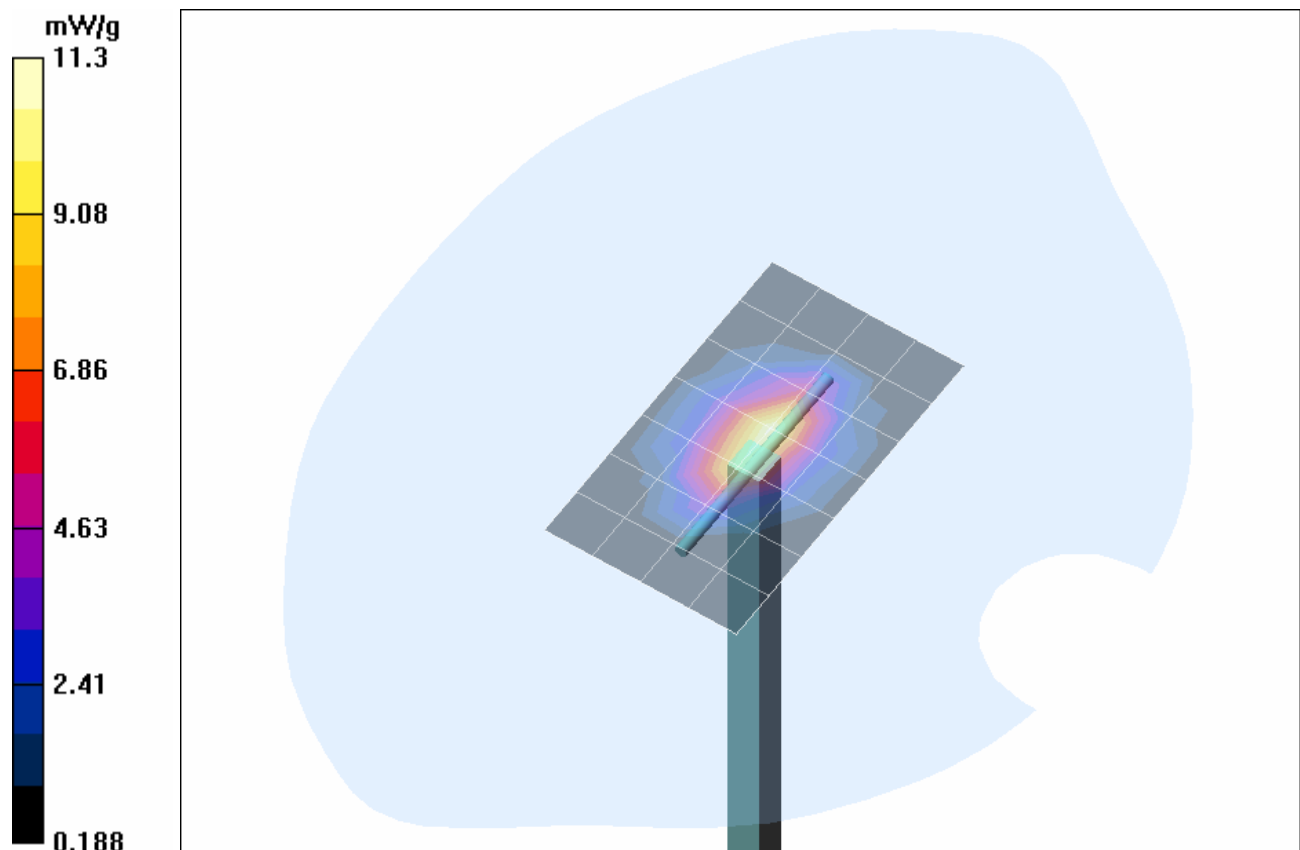
1900 MHz Dipole - System Performance Check/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 94.8 V/m; Power Drift = 0.013 dB

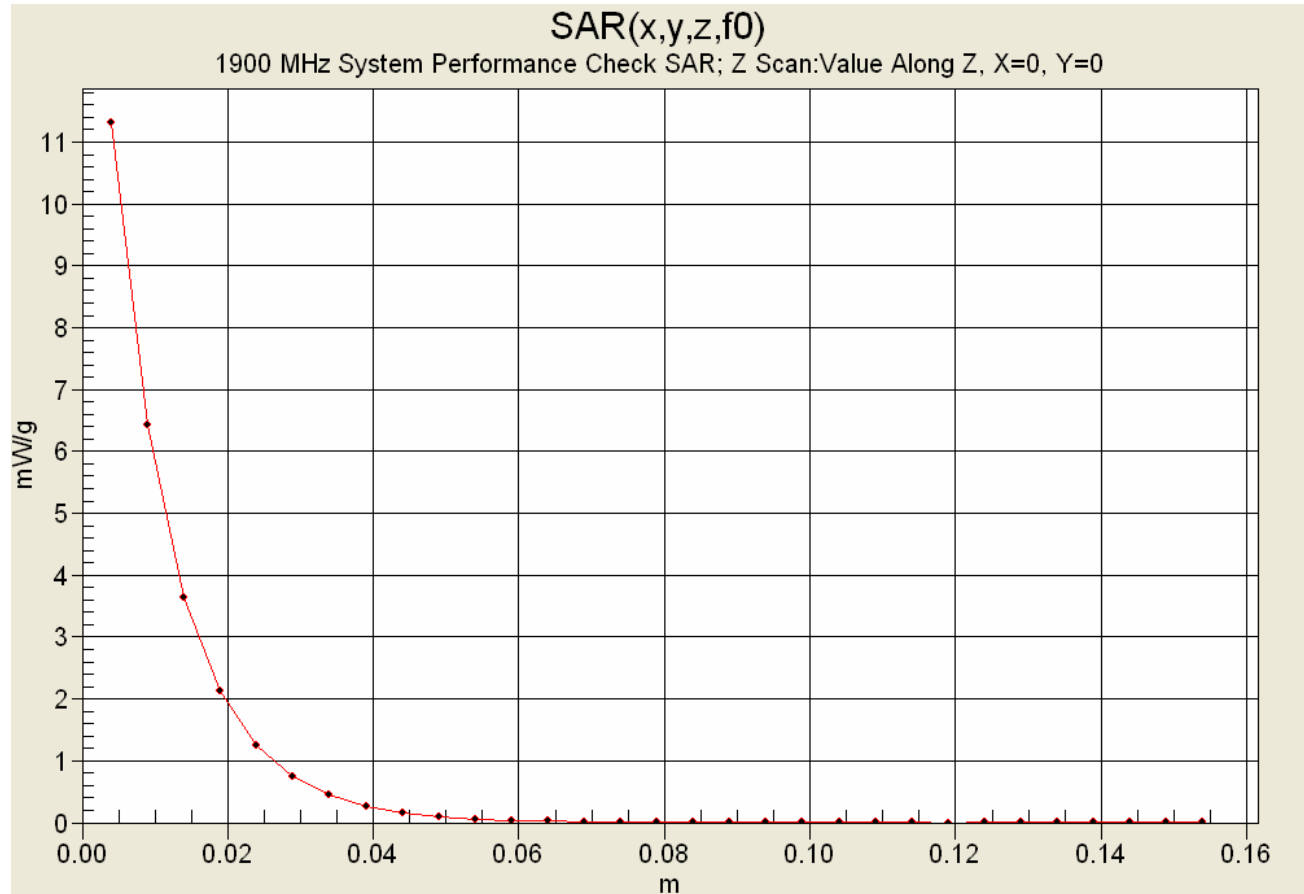
Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 10.0 mW/g; SAR(10 g) = 5.25 mW/g



Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				Ascalade
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Z-Axis Scan



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	Description of Test(s):	RF Exposure SAR	FCC 47 CFR §2.1093	IC RSS-102 Issue 2

APPENDIX C - MEASURED FLUID DIELECTRIC PARAMETERS

Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				Ascalade
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	Test Report Serial No.: 020906PBW-T719b-S15T		Report Issue No.:	S719b-030806-R0
	Date(s) of Evaluation: March 06, 2006		Report Issue Date:	March 08, 2006
	Description of Test(s): RF Exposure SAR		FCC 47 CFR §2.1093	IC RSS-102 Issue 2

1900 MHz System Performance Check & 1920 MHz DUT Evaluation (Face)

Celltech Labs Inc.

Test Result for UIM Dielectric Parameter

Mon 06/Mar/2006

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_eHFCC	sHFCC	Test_e	Test_s
1.8000	40.00	1.40	38.85	1.30
1.8100	40.00	1.40	38.79	1.31
1.8200	40.00	1.40	38.80	1.31
1.8300	40.00	1.40	38.77	1.33
1.8400	40.00	1.40	38.79	1.33
1.8500	40.00	1.40	38.73	1.34
1.8600	40.00	1.40	38.74	1.34
1.8700	40.00	1.40	38.64	1.36
1.8800	40.00	1.40	38.62	1.37
1.8900	40.00	1.40	38.55	1.37
1.9000	40.00	1.40	38.57	1.39
1.9100	40.00	1.40	38.55	1.39
1.9200	40.00	1.40	38.50	1.40
1.9300	40.00	1.40	38.51	1.41
1.9400	40.00	1.40	38.45	1.42
1.9500	40.00	1.40	38.43	1.44
1.9600	40.00	1.40	38.38	1.45
1.9700	40.00	1.40	38.46	1.46
1.9800	40.00	1.40	38.39	1.47
1.9900	40.00	1.40	38.28	1.48
2.0000	40.00	1.40	38.17	1.50

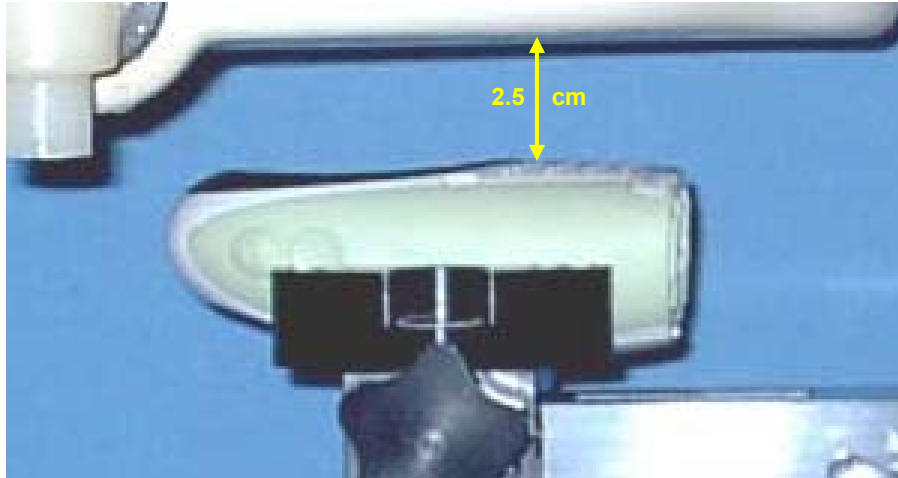
Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				Ascalade
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	Description of Test(s):	RF Exposure	SAR	FCC 47 CFR §2.1093	IC RSS-102 Issue 2

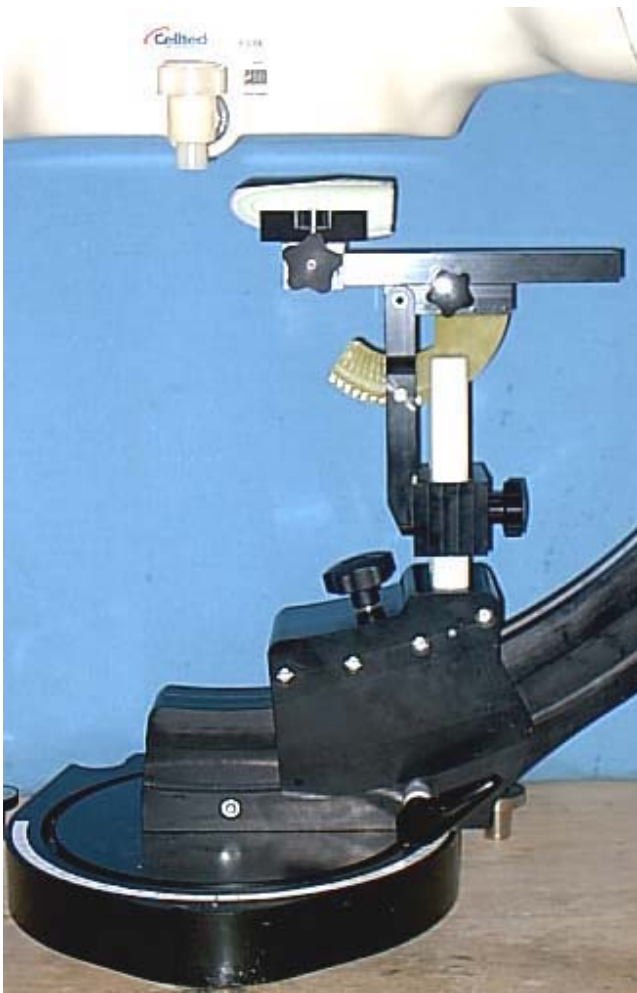
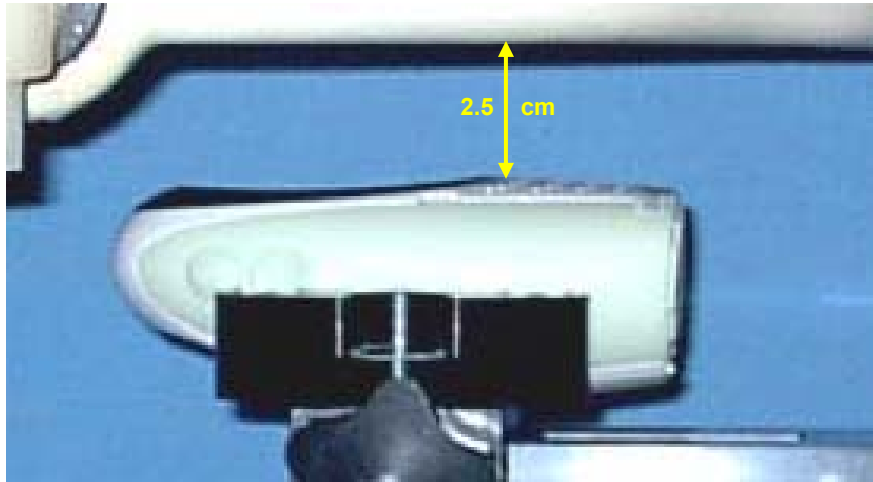
APPENDIX D - SAR TEST SETUP & DUT PHOTOGRAPHS

Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				Ascalade
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FACE SAR TEST SETUP PHOTOGRAPHS
2.5 cm Separation Distance from Front of DUT to Planar Phantom
Model: 08053



FACE SAR TEST SETUP PHOTOGRAPHS
2.5 cm Separation Distance from Front of DUT to Planar Phantom
Model: 08232



DUT PHOTOGRAPHS

Model: 08053



Front of DUT



Back of DUT



Top end of DUT



Bottom end of DUT

DUT PHOTOGRAPHS

Model: 08053



Left Side of DUT



Right Side of DUT



DUT Battery Compartment



NiMH AA Batteries

DUT PHOTOGRAPHS

Model: 08232



Front of DUT



Back of DUT



Top end of DUT



Bottom end of DUT

DUT PHOTOGRAPHS

Model: 08232



Left Side of DUT



Right Side of DUT



DUT Battery Compartment



NiMH AA Batteries

	Test Report Serial No.:	020906PBW-T719b-S15T	Report Issue No.:	S719b-030806-R0
	Date(s) of Evaluation:	March 06, 2006	Report Issue Date:	March 08, 2006
	Description of Test(s):	RF Exposure SAR	FCC 47 CFR §2.1093	IC RSS-102 Issue 2

APPENDIX E - SYSTEM VALIDATION

Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				<i>Ascalade</i>
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1900 MHz SYSTEM VALIDATION DIPOLE

Type:

1900 MHz Validation Dipole

Asset Number:

00032

Serial Number:

151

Place of Calibration:

Celltech Labs Inc.

Date of Calibration:

June 17, 2005

Celltech Labs Inc. hereby certifies that this device has been calibrated on the date indicated above.

Calibrated by:



Approved by:

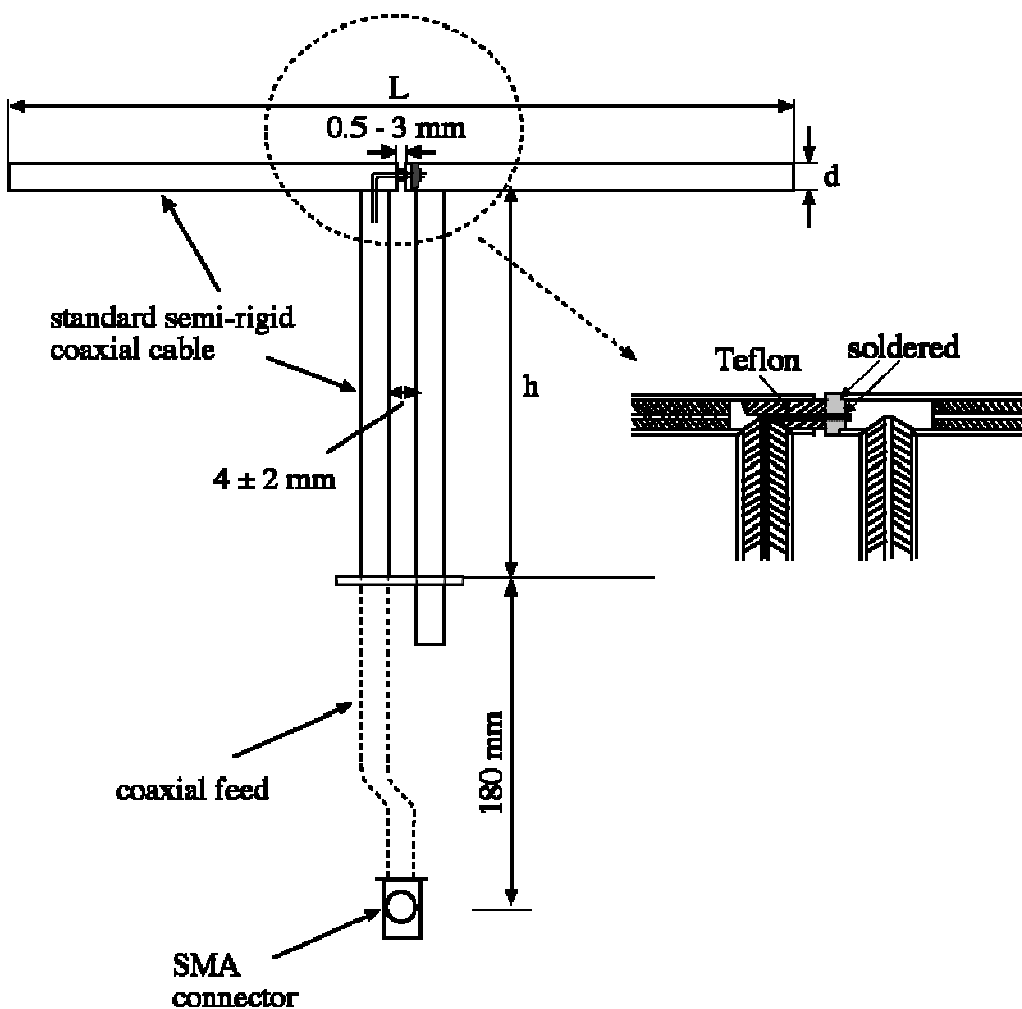


1. Dipole Construction & Electrical Characteristics

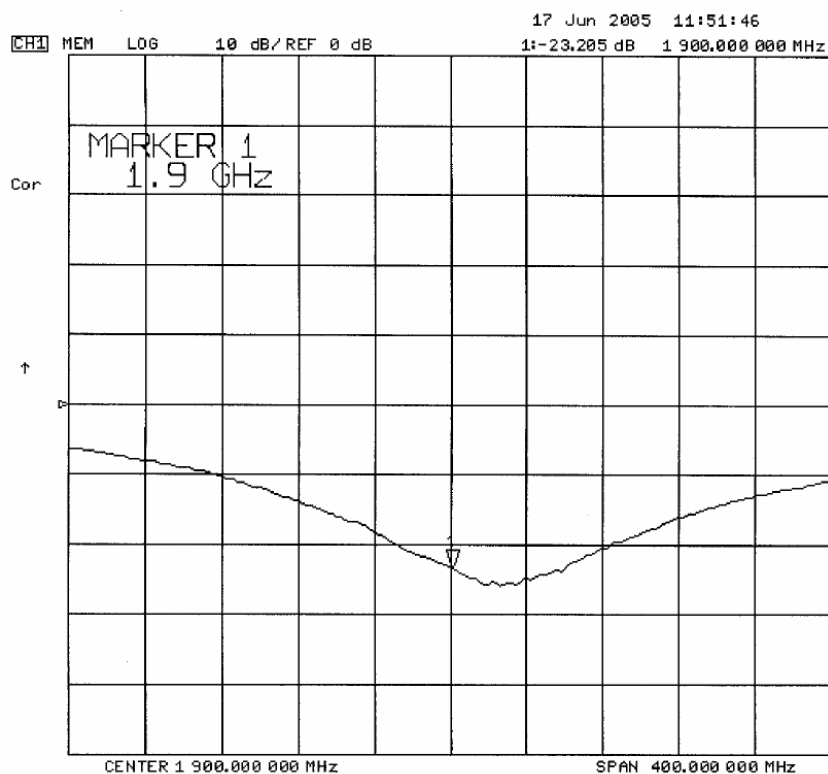
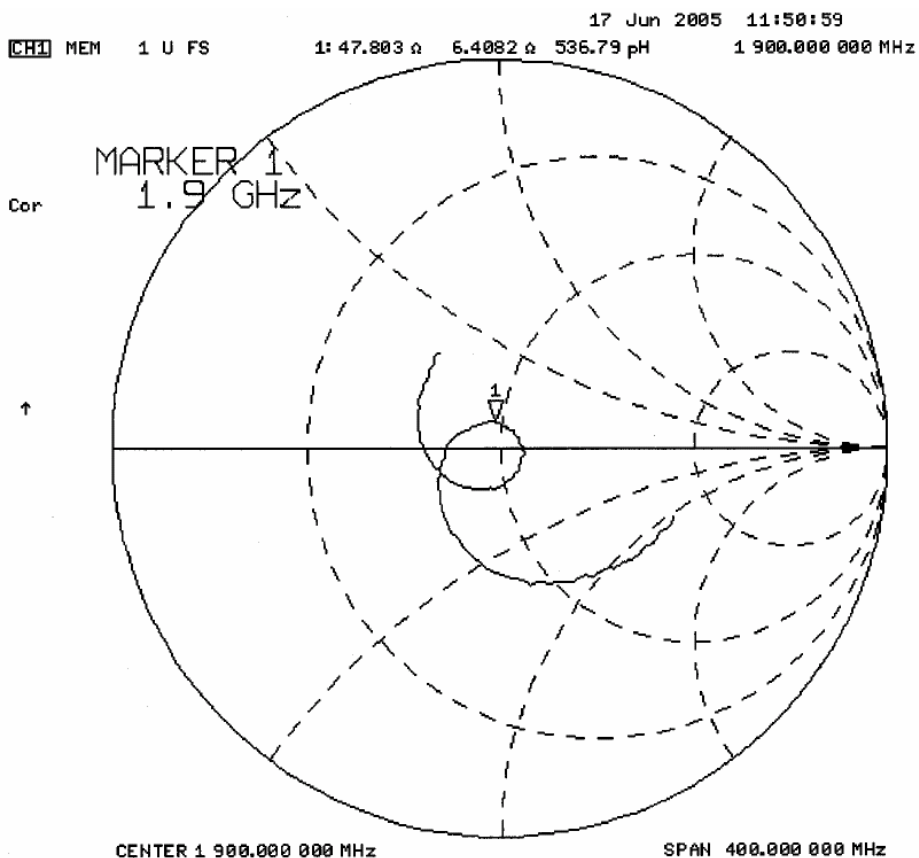
The validation dipole was constructed in accordance with the IEEE Standard “Annex G (informative) Reference dipoles for use in system validation”. The electrical properties were measured using an HP 8753ET Network Analyzer. The network analyzer was calibrated to the validation dipole N-type connector feed point using an HP85032E Type N calibration kit. The dipole was placed parallel to a planar phantom at a separation distance of 10.0mm from the simulating fluid using a loss-less dielectric spacer. The measured input impedance is:

[illegible]

Return Loss at 1900MHz -23.205dB



2. Validation Dipole VSWR Data



3. Validation Dipole Dimensions

Frequency (MHz)	L (mm)	h (mm)	d (mm)
300	420.0	250.0	6.2
450	288.0	167.0	6.2
835	161.0	89.8	3.6
900	149.0	83.3	3.6
1450	89.1	51.7	3.6
1800	72.0	41.7	3.6
1900	68.0	39.5	3.6
2000	64.5	37.5	3.6
2450	51.8	30.6	3.6
3000	41.5	25.0	3.6

4. Validation Phantom

The validation phantom is the SAM (Specific Anthropomorphic Mannequin) phantom manufactured by Schmid & Partner Engineering AG. The SAM phantom is a Fiberglass shell integrated in a wooden table. The shape of the shell corresponds to the phantom defined by SCC34-SC2. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot.

Shell Thickness: 2.0 ± 0.1 mm
Filling Volume: Approx. 25 liters
Dimensions: 50 cm (W) x 100 cm (L)

5. 1900 MHz System Validation Setup



1900 MHz System Validation Setup



6. Measurement Conditions

The SAM phantom was filled with 1900 MHz brain simulating tissue.

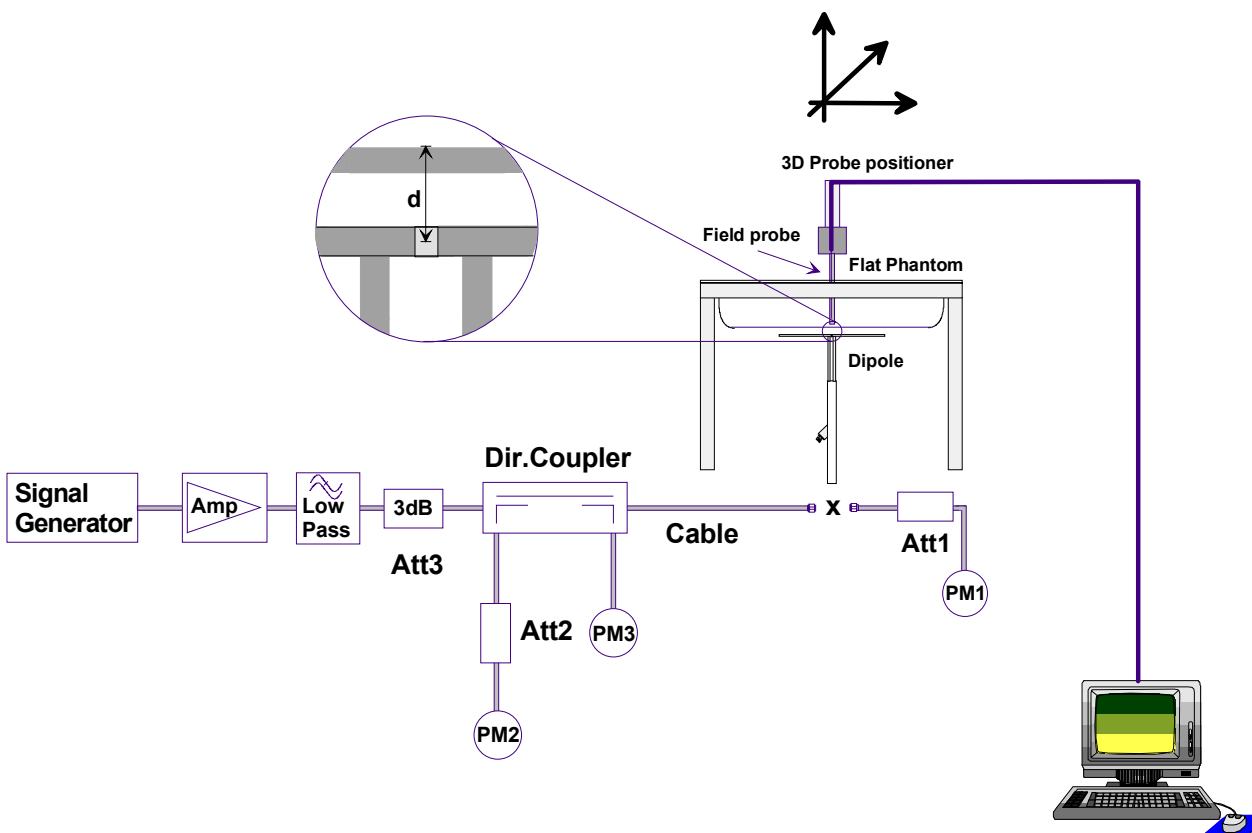
Relative Permittivity: 38.4
 Conductivity: 1.40 mho/m
 Ambient Temperature: 23.4 °C
 Fluid Temperature: 22.7 °C
 Fluid Depth: ≥ 15.0 cm
 Barometric Pressure: 100.6 kPa
 Humidity: 35%

The 1900 MHz tissue simulant consists of the following ingredients:

Ingredient	Percentage by weight
Water	55.85%
Glycol	44.00%
Salt	0.15%
Target Dielectric Parameters at 22 °C	$\epsilon_r = 40.0$ $\sigma = 1.40$ S/m

7. SAR Measurement

The SAR measurement was performed with the E-field probe in mechanical detection mode only. The setup and determination of the forward power into the dipole was performed using the following procedures.



First the power meter PM1 (including attenuator Att1) is connected to the cable to measure the forward power at the location of the dipole connector (X). The signal generator is adjusted for the desired forward power at the dipole connector (taking into account the attenuation of Att1) as read by power meter PM2. After connecting the cable to the dipole, the signal generator is readjusted for the same reading at power meter PM2. If the signal generator does not allow adjustment in 0.01dB steps, the remaining difference at PM2 must be taken into consideration. PM3 records the reflected power from the dipole to ensure that the value is not changed from the previous value. The reflected power should be 50dB below the forward power.

8. Validation Dipole SAR Test Results

Ten SAR measurements were performed in order to achieve repeatability and to establish an average target value.

Validation Measurement	SAR @ 0.25W Input averaged over 1g	SAR @ 1W Input averaged over 1g	SAR @ 0.25W Input averaged over 10g	SAR @ 1W Input averaged over 10g	Peak SAR @ 0.25W Input
Test 1	9.97	39.88	5.20	20.80	17.7
Test 2	10.0	40.00	5.19	20.76	17.9
Test 3	10.1	40.40	5.21	20.84	18.1
Test 4	9.98	39.92	5.20	20.80	17.8
Test 5	9.96	39.84	5.19	20.76	17.7
Test 6	9.99	39.96	5.18	20.72	17.9
Test 7	9.89	39.56	5.16	20.64	17.5
Test 8	9.95	39.80	5.19	20.76	17.6
Test 9	9.96	39.84	5.20	20.80	17.6
Test 10	9.92	39.68	5.19	20.76	17.5
Average	9.972	39.888	5.191	20.764	17.73

The results have been normalized to 1W (forward power) into the dipole.

1g/10g Averaged	Average Measured SAR @ 1W Input	IEEE Target SAR @ 1W Input	Deviation (%)
1 gram	39.888	39.7	+ 0.474
10 gram	20.764	20.5	+ 1.29

1900 MHz System Validation - June 17, 2005

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 151
Ambient Temp: 23.4 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 100.6 kPa; Humidity: 35%
Communication System: CW
Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: HSL1900 ($\sigma = 1.40$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(5.44, 5.44, 5.44); Calibrated: 20/05/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 25/01/2005
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

1900 MHz System Validation/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

1900 MHz System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.6 V/m; Power Drift = -0.018 dB
Peak SAR (extrapolated) = 17.7 W/kg
SAR(1 g) = 9.97 mW/g; SAR(10 g) = 5.20 mW/g

1900 MHz System Validation/Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 93.6 V/m; Power Drift = -0.025 dB
Peak SAR (extrapolated) = 17.9 W/kg
SAR(1 g) = 10.0 mW/g; SAR(10 g) = 5.19 mW/g

1900 MHz System Validation/Zoom Scan 3 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.1 V/m; Power Drift = -0.011 dB
Peak SAR (extrapolated) = 18.1 W/kg
SAR(1 g) = 10.1 mW/g; SAR(10 g) = 5.21 mW/g

1900 MHz System Validation/Zoom Scan 4 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.8 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 17.8 W/kg
SAR(1 g) = 9.98 mW/g; SAR(10 g) = 5.20 mW/g

1900 MHz System Validation/Zoom Scan 5 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.8 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 17.7 W/kg
SAR(1 g) = 9.96 mW/g; SAR(10 g) = 5.19 mW/g

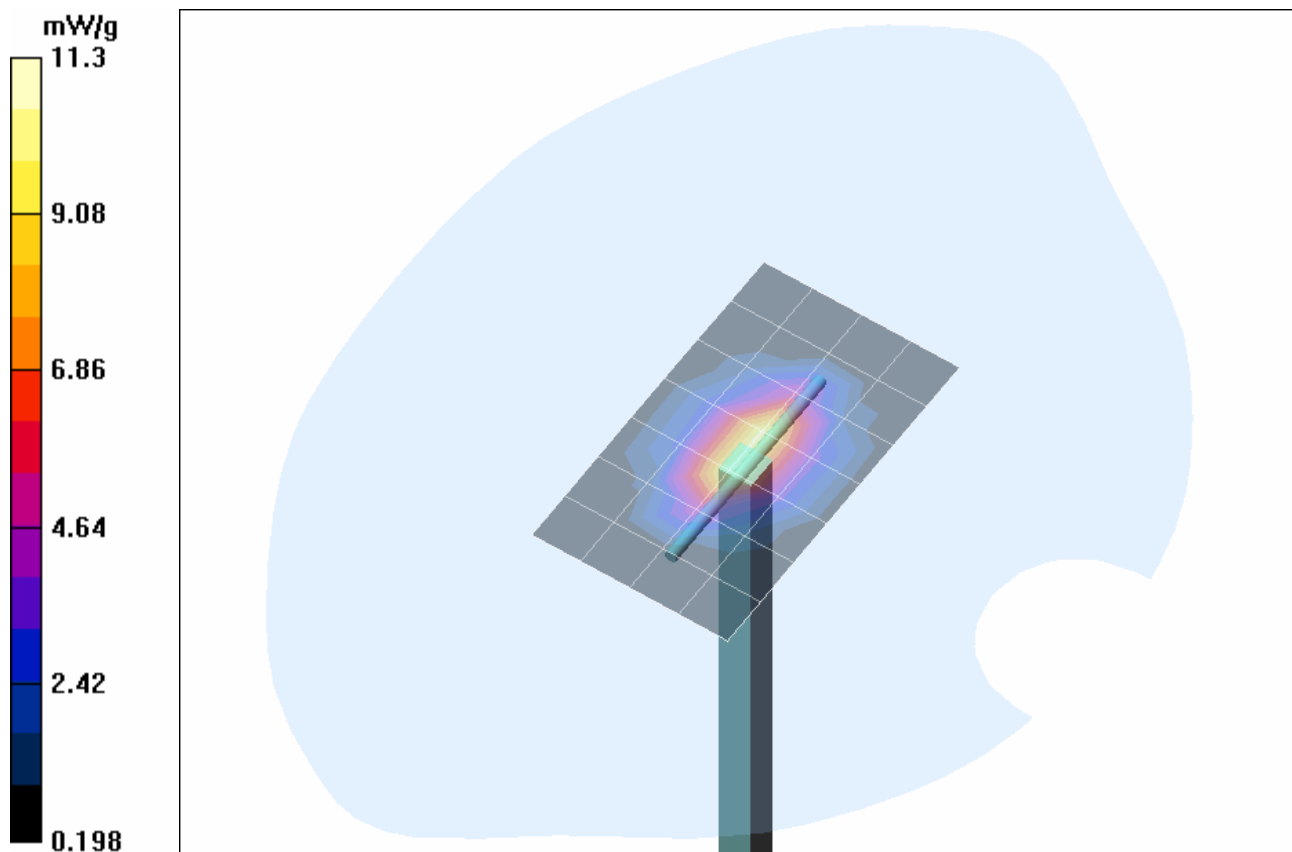
1900 MHz System Validation/Zoom Scan 6 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 95.6 V/m; Power Drift = -0.081 dB
Peak SAR (extrapolated) = 17.9 W/kg
SAR(1 g) = 9.99 mW/g; SAR(10 g) = 5.18 mW/g

1900 MHz System Validation/Zoom Scan 7 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.6 V/m; Power Drift = -0.019 dB
Peak SAR (extrapolated) = 17.5 W/kg
SAR(1 g) = 9.89 mW/g; SAR(10 g) = 5.16 mW/g

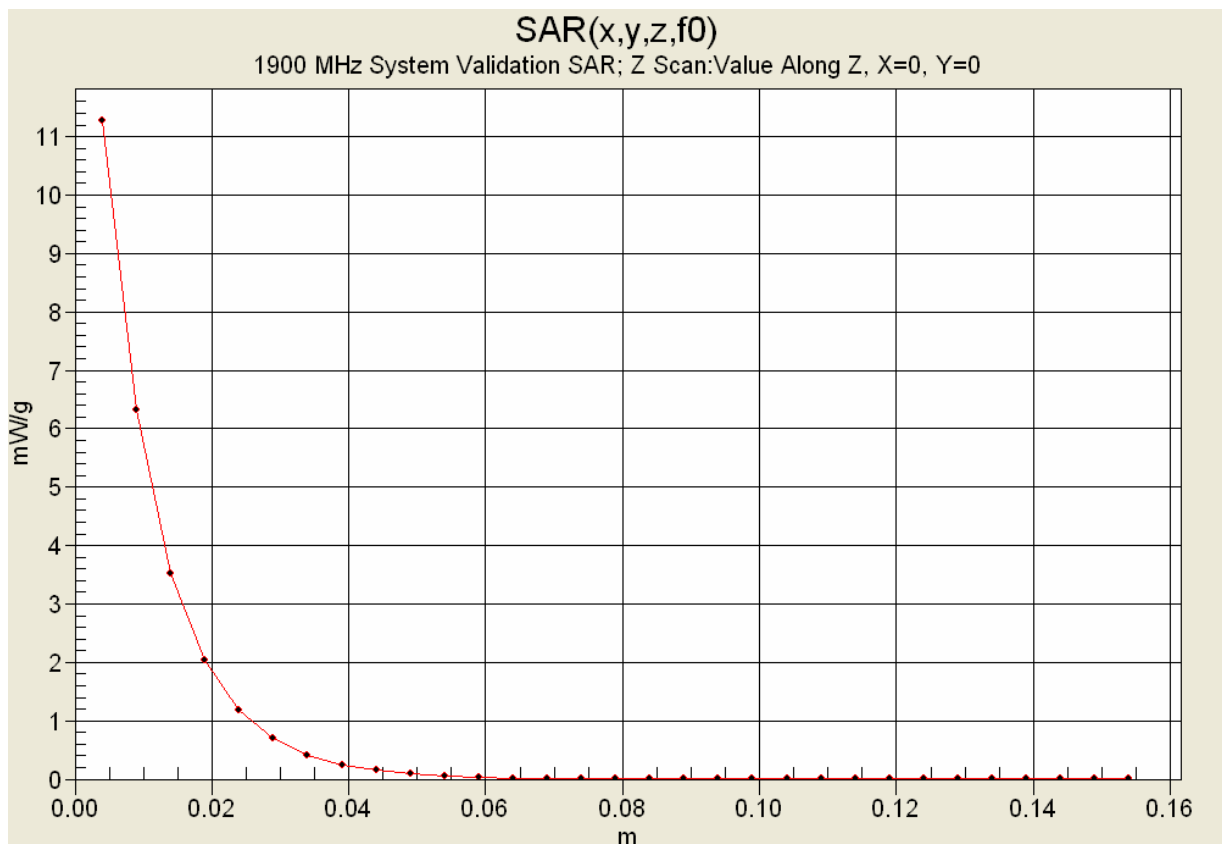
1900 MHz System Validation/Zoom Scan 8 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 95.0 V/m; Power Drift = -0.016 dB
Peak SAR (extrapolated) = 17.6 W/kg
SAR(1 g) = 9.95 mW/g; SAR(10 g) = 5.19 mW/g

1900 MHz System Validation/Zoom Scan 9 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 95.0 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 17.6 W/kg
SAR(1 g) = 9.96 mW/g; SAR(10 g) = 5.20 mW/g

1900 MHz System Validation/Zoom Scan 10 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.7 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 17.5 W/kg
SAR(1 g) = 9.92 mW/g; SAR(10 g) = 5.19 mW/g



1 g average of 10 measurements: 9.972 mW/g
10 g average of 10 measurements: 5.191 mW/g



System Validation - 1900 MHz Dipole (Brain)

Celltech Labs Inc.

Test Result for UIM Dielectric Parameter

Fri 17/Jun/2005

Freq Frequency(GHz)

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

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

Test_e Epsilon of UIM

Test_s Sigma of UIM

Freq	FCC_eH	FCC_sH	Test_e	Test_s
1.8000	40.00	1.40	38.82	1.30
1.8100	40.00	1.40	38.66	1.32
1.8200	40.00	1.40	38.64	1.33
1.8300	40.00	1.40	38.60	1.33
1.8400	40.00	1.40	38.57	1.34
1.8500	40.00	1.40	38.47	1.34
1.8600	40.00	1.40	38.40	1.36
1.8700	40.00	1.40	38.44	1.37
1.8800	40.00	1.40	38.34	1.38
1.8900	40.00	1.40	38.39	1.38
1.9000	40.00	1.40	38.37	1.40
1.9100	40.00	1.40	38.32	1.41
1.9200	40.00	1.40	38.34	1.42
1.9300	40.00	1.40	38.30	1.42
1.9400	40.00	1.40	38.31	1.44
1.9500	40.00	1.40	38.27	1.44
1.9600	40.00	1.40	38.20	1.46
1.9700	40.00	1.40	38.23	1.47
1.9800	40.00	1.40	38.11	1.49
1.9900	40.00	1.40	38.02	1.50
2.0000	40.00	1.40	38.11	1.52

	Test Report Serial No.:	020906PBW-T719b-S15T	Report Issue No.:	S719b-030806-R0
	Date(s) of Evaluation:	March 06, 2006	Report Issue Date:	March 08, 2006
	Description of Test(s):	RF Exposure SAR	FCC 47 CFR §2.1093	IC RSS-102 Issue 2

APPENDIX F - PROBE CALIBRATION

Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				<i>Ascalade</i>
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Accredited by the Swiss Federal Office of Metrology and Accreditation
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **Celltech**

Certificate No: **ET3-1590_May05**

CALIBRATION CERTIFICATE

Object **ET3DV6 - SN:1590**

Calibration procedure(s) **QA CAL-01.v5
Calibration procedure for dosimetric E-field probes**

Calibration date: **May 20, 2005**

Condition of the calibrated item **In Tolerance**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	3-May-05 (METAS, No. 251-00466)	May-06
Power sensor E4412A	MY41495277	3-May-05 (METAS, No. 251-00466)	May-06
Power sensor E4412A	MY41498087	3-May-05 (METAS, No. 251-00466)	May-06
Reference 3 dB Attenuator	SN: S5054 (3c)	10-Aug-04 (METAS, No. 251-00403)	Aug-05
Reference 20 dB Attenuator	SN: S5086 (20b)	3-May-05 (METAS, No. 251-00467)	May-06
Reference 30 dB Attenuator	SN: S5129 (30b)	10-Aug-04 (METAS, No. 251-00404)	Aug-05
Reference Probe ES3DV2	SN: 3013	7-Jan-05 (SPEAG, No. ES3-3013_Jan05)	Jan-06
DAE4	SN: 617	19-Jan-05 (SPEAG, No. DAE4-617_Jan05)	Jan-06
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (SPEAG, in house check Dec-03)	In house check: Dec-05
Network Analyzer HP 8753E	US37390585	18-Oct-01 (SPEAG, in house check Nov-04)	In house check: Nov 05

	Name	Function	Signature
Calibrated by:	Nico Vetterli	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: May 21, 2005

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



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 The Swiss Accreditation Service is one of the signatories to the EA
 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
Polarization ϕ	ϕ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- CENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz), July 2001

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not effect the E^2 -field uncertainty inside TSL (see below *ConvF*).
- NORM(f)_{x,y,z}** = NORM_{x,y,z} * *frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * *ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

Probe ET3DV6

SN:1590

Manufactured:	March 19, 2001
Last calibrated:	May 24, 2004
Recalibrated:	May 20, 2005

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

DASY - Parameters of Probe: ET3DV6 SN:1590

Sensitivity in Free Space^A

Diode Compression^B

NormX	1.82 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP X	87 mV
NormY	1.97 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP Y	87 mV
NormZ	1.70 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP Z	87 mV

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL **900 MHz** **Typical SAR gradient: 5 % per mm**

Sensor Center to Phantom Surface Distance		3.7 mm	4.7 mm
SAR _{be} [%]	Without Correction Algorithm	7.6	3.9
SAR _{be} [%]	With Correction Algorithm	0.1	0.2

TSL **1810 MHz** **Typical SAR gradient: 10 % per mm**

Sensor Center to Phantom Surface Distance		3.7 mm	4.7 mm
SAR _{be} [%]	Without Correction Algorithm	11.8	8.3
SAR _{be} [%]	With Correction Algorithm	0.6	0.1

Sensor Offset

Probe Tip to Sensor Center **2.7 mm**

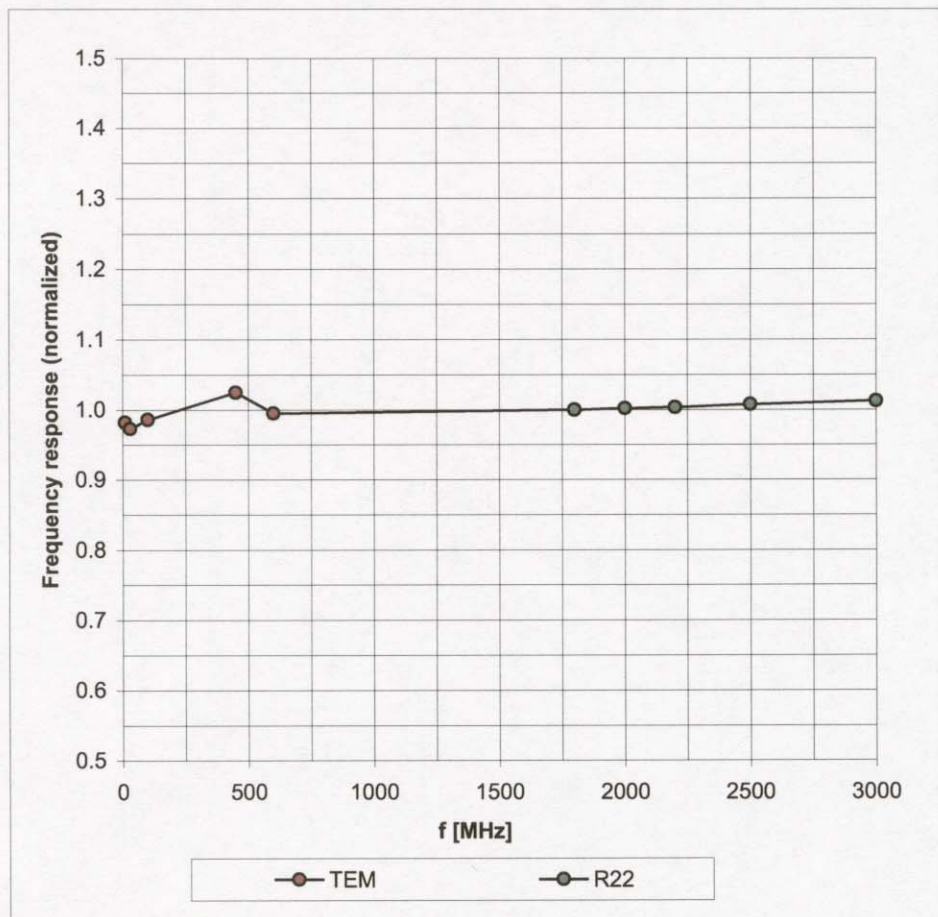
The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of NormX,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 8).

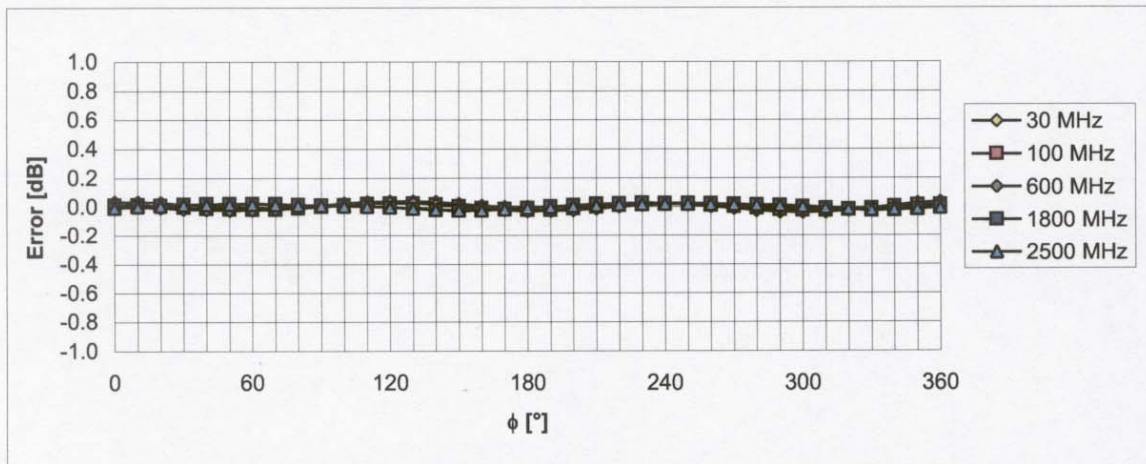
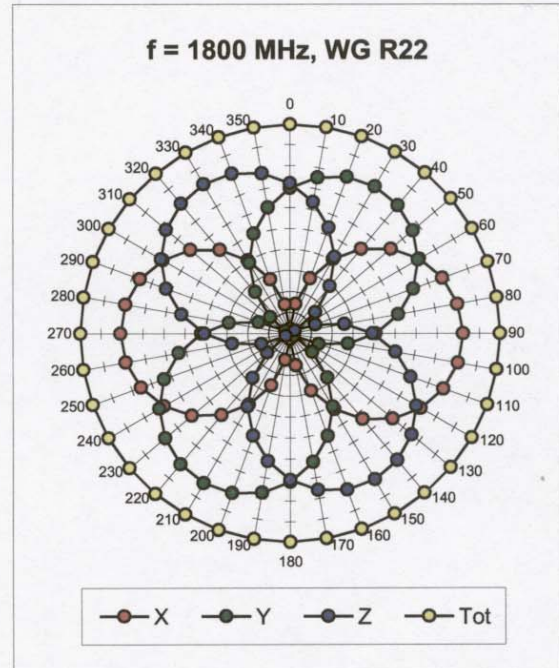
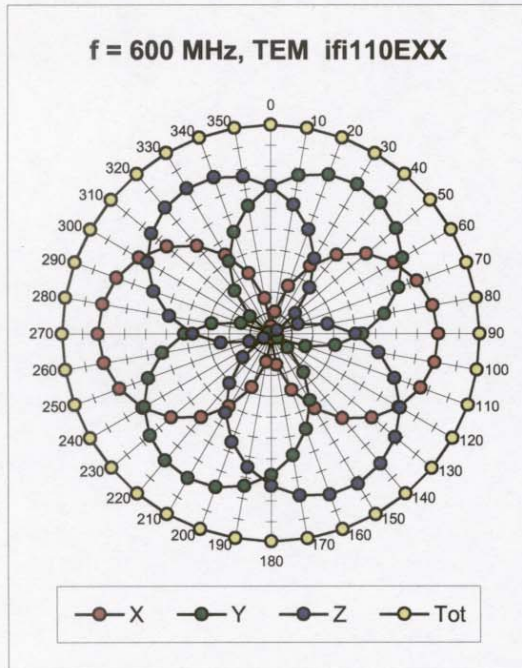
^B Numerical linearization parameter: uncertainty not required.

Frequency Response of E-Field

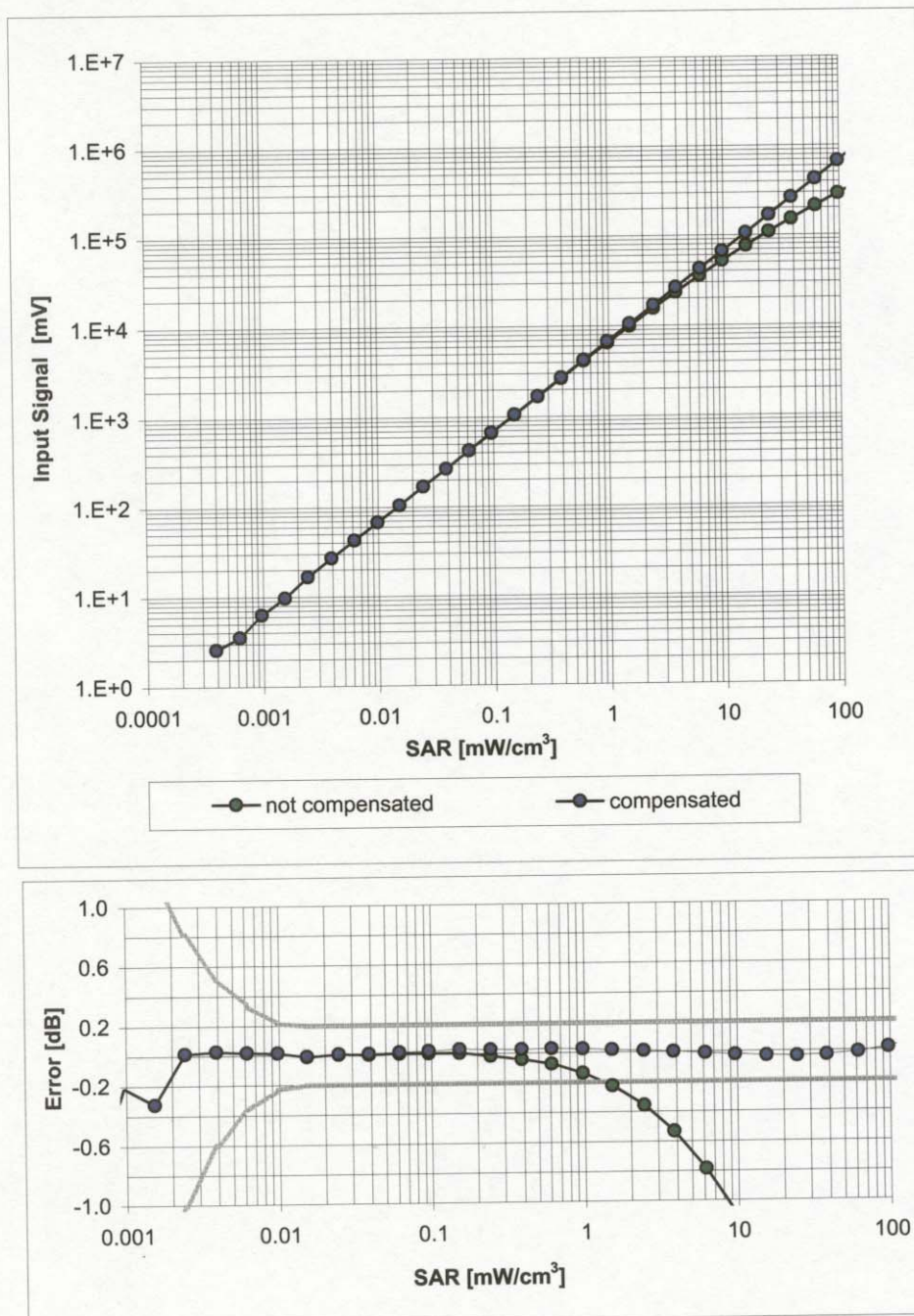
(TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

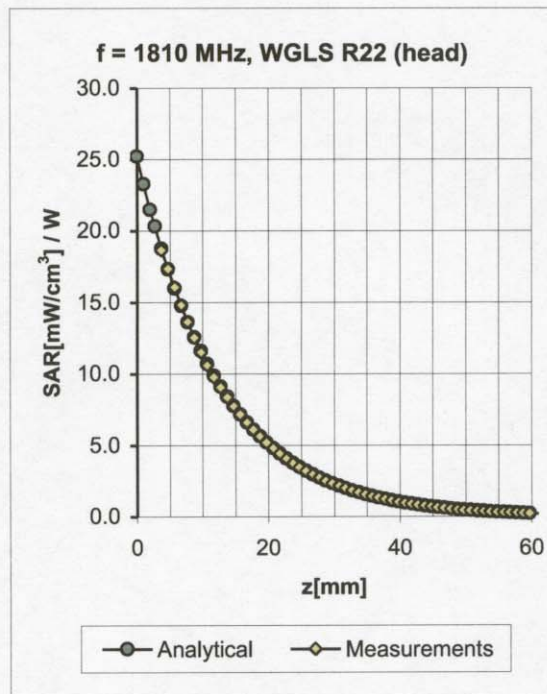
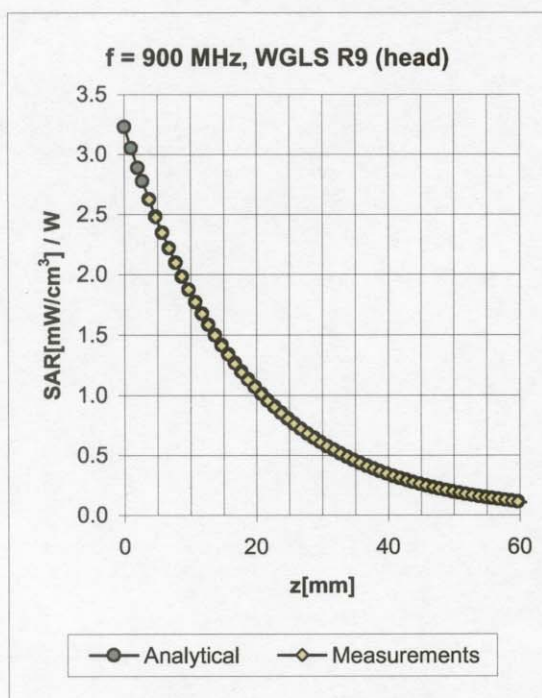
Receiving Pattern (ϕ), $\vartheta = 0^\circ$ Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Dynamic Range $f(\text{SAR}_{\text{head}})$ (Waveguide R22, $f = 1800 \text{ MHz}$)



Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment

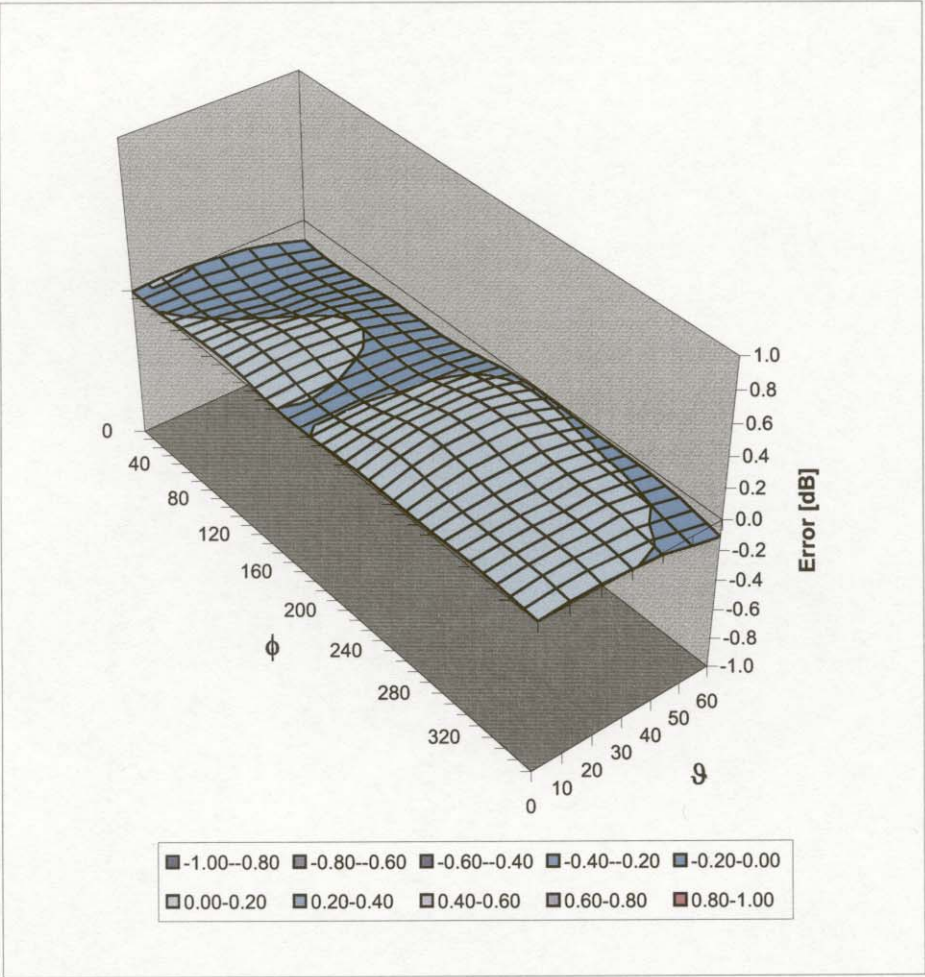


f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.54	1.81	6.67 ± 11.0% (k=2)
1810	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.46	2.62	5.44 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.50	2.53	4.56 ± 11.8% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.46	2.09	6.47 ± 11.0% (k=2)
1810	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.44	3.00	4.85 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.50	2.42	4.22 ± 11.8% (k=2)

^c The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

Deviation from Isotropy in HSL

Error (ϕ , ϑ), $f = 900 \text{ MHz}$



Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ ($k=2$)

Additional Conversion Factors

for Dosimetric E-Field Probe

Type:

ET3DV6

Serial Number:

1590

Place of Assessment:

Zurich

Date of Assessment:

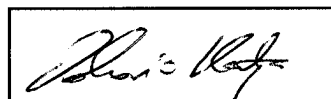
May 23, 2005

Probe Calibration Date:

May 20, 2005

Schmid & Partner Engineering AG hereby certifies that conversion factor(s) of this probe have been evaluated on the date indicated above. The assessment was performed using the FDTD numerical code SEMCAD of Schmid & Partner Engineering AG. Since the evaluation is coupled with measured conversion factors, it has to be recalculated yearly, i.e., following the re-calibration schedule of the probe. The uncertainty of the numerical assessment is based on the extrapolation from measured value at 900 MHz or at 1800 MHz.

Assessed by:



Dosimetric E-Field Probe ET3DV6 SN:1590

Conversion factor ($\pm$ standard deviation)

f = 150 MHz	ConvF	9.1 $\pm$ 10 %	$\epsilon_r = 52.3 \pm 5\%$ $\sigma = 0.76 \pm 5\%$ mho/m (head tissue)
f = 300 MHz	ConvF	8.1 $\pm$ 9 %	$\epsilon_r = 45.3 \pm 5\%$ $\sigma = 0.87 \pm 5\%$ mho/m (head tissue)
f = 450 MHz	ConvF	7.8 $\pm$ 8 %	$\epsilon_r = 43.5 \pm 5\%$ $\sigma = 0.87 \pm 5\%$ mho/m (head tissue)
f = 150 MHz	ConvF	8.6 $\pm$ 10 %	$\epsilon_r = 61.9 \pm 5\%$ $\sigma = 0.80 \pm 5\%$ mho/m (body tissue)
f = 450 MHz	ConvF	7.7 $\pm$ 8 %	$\epsilon_r = 56.7 \pm 5\%$ $\sigma = 0.94 \pm 5\%$ mho/m (body tissue)

Important Note:

For numerically assessed probe conversion factors, parameters Alpha and Delta in the DASY software must have the following entries: Alpha = 0 and Delta = 1.

Please see also Section 4.7 of the DASY4 Manual.

Additional Conversion Factors

for Dosimetric E-Field Probe

Type:

ET3DV6

Serial Number:

1590

Place of Assessment:

Zurich

Date of Assessment:

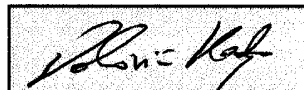
February 24, 2006

Probe Calibration Date:

May 20, 2005

Schmid & Partner Engineering AG hereby certifies that conversion factor(s) of this probe have been evaluated on the date indicated above. The assessment was performed using the FDTD numerical code SEMCAD of Schmid & Partner Engineering AG. Since the evaluation is coupled with measured conversion factors, it has to be recalculated yearly, i.e., following the re-calibration schedule of the probe. The uncertainty of the numerical assessment is based on the extrapolation from measured value at 900 MHz or at 1800 MHz.

Assessed by:



Dosimetric E-Field Probe ET3DV6 SN:1590Conversion factor ($\pm$ standard deviation)**f = 750 MHz** ConvF **$6.9 \pm 7\%$**

$\epsilon_r = 55.4 \pm 5\%$
 $\sigma = 0.96 \pm 5\%$ mho/m
(body tissue)

f = 1925 MHz ConvF **$5.3 \pm 7\%$**

$\epsilon_r = 39.8 \pm 5\%$
 $\sigma = 1.48 \pm 5\%$ mho/m
(head tissue)

f = 1925 MHz ConvF **$4.8 \pm 7\%$**

$\epsilon_r = 53.2 \pm 5\%$
 $\sigma = 1.60 \pm 5\%$ mho/m
(body tissue)

Important Note:

For numerically assessed probe conversion factors, parameters Alpha and Delta in the DASY software must have the following entries: Alpha = 0 and Delta = 1.

Please see also Section 4.7 of the DASY4 Manual.

	Test Report Serial No.:	020906PBW-T719b-S15T	Report Issue No.:	S719b-030806-R0
	Date(s) of Evaluation:	March 06, 2006	Report Issue Date:	March 08, 2006
	Description of Test(s):	RF Exposure SAR	FCC 47 CFR §2.1093	IC RSS-102 Issue 2

APPENDIX G - SAM PHANTOM CERTIFICATE OF CONFORMITY

Applicant:	Ascalade Technologies Inc.	FCC ID:	PBWDJG08053R	IC ID:	3842A-08053	1921.536-1928.448 MHz
Model(s):	Safety 1st 08053, 08232	Portable UPCS DECT Baby Monitor Transmitter (Parent Unit)				Ascalade
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Schmid & Partner Engineering AG

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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

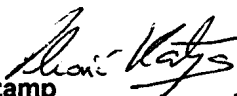
(*) The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of [1] and [3].

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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