



SAR EVALUATION REPORT

For

Nexpro International Limitada

San Jose-Goicoechea, Guadalupe, Barrio Tournon, Frente Al Hotel Villas Tournon, Oficinas Del Bufete Facio, Y Canas, Costa Rica

FCC ID: ZYPES980

Report Type: **Product Type:** Original Report GSM/GPRS/WCDMA Mobile Phone Ricky Wang Arthur Tie **Test Engineer: Report Number:** R1207245-SAR **Report Date:** 2012-08-31 Quinn Jiang **Reviewed By:** Test Engineer Bay Area Compliance Laboratories Corp. 1274 Anvilwood Avenue, Sunnyvale, CA 94089, USA Tel: (408) 732-9162 Fax: (408) 732 9164

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	Summary of Test Results			
Rule Part(s):	FCC §2.1093			
Test Procedure(s):	FCC OET 65-C; IEEE 1528-2003			
Device Category: Exposure Category:	Portable Device General Population/Uncontrolled Exposure			
Device Type:	Mobile Phone			
Modulation Type:	GSM/GPRS/EDGE: GMSK, 8PSK Bluetooth: GFSK, π/4-DQPSK, 8DPSK WCDMA: QPSK/BPSK Wi-Fi: DSSS, OFDM			
TX Frequency Range:	GSM/GPRS/EDGE Cellular Band: 824.2-848.8 MHz GSM/GPRS/EDGE PCS Band: 1850.2-1909.8 MHz WCDMA Band V: 826.4-846.6 MHz WCDMA Band II: 1852.4-1907.6 MHz Bluetooth: 2402-2480 MHz Wi-Fi: 2412-2462 MHz			
Conducted RF Out Power:	GSM850: 31.94 dBm PCS1900: 29.65 dBm WCDMA Band V: 22.73 dBm			
Antenna Type(s):	Integrated Antenna			
Body-Worn Accessories:	Headset			
Face-Head Accessories:	None			
Battery Type (s):	Li-Ion rechargeable Battery: 3.7 VDC			
	0.592 W/Kg, Head 1g Tissue 0.764 W/Kg, Body 1g Tissue 0.250 W/Kg, Head 1g Tissue 0.577 W/Kg, Body 1g Tissue	GSM 850 MHz GSM 1900 MHz		
	1.35 W/Kg, Body 1g Tissue	GPRS 850 MHz		
Max. SAR Level (s) Measured:	: 1.27 W/Kg, Body 1g Tissue GPRS 1900 MHz			
	0.617 W/kg, Head 1g tissue 0.888 W/kg, Body 1g Tissue WCDMA			
	0.565 W/Kg, Head 1g Tissue 1.45 W/Kg, Body 1g Tissue	WCDMA 1900 MHz		
	0.053W/Kg, Body 1g Tissue	Wi-Fi Band		

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1 GENERAL DESCRIPTION

1.1 Product Description for Equipment Under Test (EUT)

This test and measurement report has been compiled on behalf of the company *Nexpro International Limitada* and their product, model: *EVE*, *FCC ID*: *ZYPES980*, which will henceforth in this report be referred to as the EUT. The EUT is a GSM/GPRS/EDEG/WCDMA mobile phone with 802.11b/g/n20 Wi-Fi and BT functionalities.

1.2 EUT Technical Specification

Item	Description
Modulation	GSM/GPRS/EDGE: GMSK, 8PSK Bluetooth: GFSK, π/4-DQPSK, 8DPSK Wi-Fi: DSSS, OFDM WCDMA: QPSK, BPSK
Frequency Range	GSM/GPRS/EDGE Cellular Band: 824.2-848.8 MHz GSM/GPRS/EDGE PCS Band: 1850.2-1909.8 MHz WCDMA Band V: 826.4-846.6 MHz WCDMA Band II: 1852.4-1907.6 MHz Bluetooth: 2402-2480 MHz Wi-Fi: 2412-2462 MHz
Max Output Power	GSM/GPRS/EDGE Cellular Band: 31.94 dBm GSM/GPRS/EDGE PCS Band: 29.65 dBm WCDMA Band V: 22.73 dBm WCDMA Band II: 22.82 dBm Wi-Fi: 13.62 dBm Bluetooth: 7.09 dBm
GPRS Class	Class 12
Capability Class	В
DTM Multi-slot Class	EUT does not support DTM
Dimensions (L*W*H)	105mm(L)×57mm(W)×15mm (H)
Power Source	Li-Ion: 3.7VDC
Weight	100g
Normal Operation	Head and Body-worn

The test data gathered are from typical production sample, serial No.: 1207245-1, assigned by BACL.

2 TEST FACILITY

The test site used by Bay Area Compliance Labs Corp. (BACL) to collect radiated and conducted emissions measurement data is located at its facility in Sunnyvale, California, USA.

The test site at BACL Corp. has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997, and Article 8 of the VCCI regulations on December 25, 1997. The test site also complies with the test methods and procedures set forth in CISPR 22:2008 §10.4 for measurements below 1 GHz and §10.6 for measurements above 1 GHz as well as ANSI C63.4-2003, ANSI C63.4-2009. TIA/EIA-603 & CISPR 24:2010.

The Federal Communications Commission and Voluntary Control Council for Interference have the reports on file and they are listed under FCC registration number: 90464 and VCCI Registration No.: R-3729, C-4176, G-469, and T-1206. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL Corp. is an American Association for laboratory Accreditation (A2LA) accredited laboratory (Lab Code 3297-02). The current scope of accreditations can be found at

http://www.a2la.org/scopepdf/3297-02.pdf?CFID=1132286&CFTOKEN=e42a3240dac3f6ba-6DE17DCB-1851-9E57-77422F667031258&jsessionid=8430d44f1f47cf2996124343c704b367816b

3 REFERENCE, STANDARDS AND GUILDELINES

FCC:

The Report and Order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g as recommended by the ANSI/IEEE standard C95.1-1992 [6] for an uncontrolled environment (Paragraph 65). According to the Supplement C of OET Bulletin 65 "Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in North America is 1.6 mW/g average over 1 gram of tissue mass.

CE:

The CE requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 2 mW/g as recommended by the EN50360 for an uncontrolled environment. According to the Standard, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits? SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in Europe is 2 mW/g average over 10 gram of tissue mass.

The test configurations were laid out on a specially designed test fixture to ensure the reproducibility of measurements. Each configuration was scanned for SAR. Analysis of each scan was carried out to characterize the above effects in the device.

3.1 SAR Limits

FCC Limit (1g Tissue)

	SAR (W/kg)				
EXPOSURE LIMITS	(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			

CE Limit (10g Tissue)

	SAR (W/kg)				
EXPOSURE LIMITS	(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)	2.0	10			
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0			

Population/Uncontrolled Environments are defined as locations where there is the exposure of individual who have no knowledge or control of their exposure.

Occupational/Controlled Environments are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure (i.e. as a result of employment or occupation).

General Population/Uncontrolled environments Spatial Peak limit 1.6 W/kg (FCC) & 2 W/kg (CE) applied to the EUT.

4 DESCRIPTION OF TEST SYSTEM

These measurements were performed with the automated near-field scanning system DASY4 from Schmid & Partner Engineering AG (SPEAG) which is the fourth generation of the system shown in the figure hereinafter:



The system is based on a high precision robot (working range greater than 0.9m), which positions the probes with a positional repeatability of better than ± 0.02 mm. Special E- and H-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines to the data acquisition unit.

The SAR measurements were conducted with the dosimetric probe ET3DV6 SN: 1604 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe has been calibrated according to the procedure with accuracy of better than $\pm 10\%$. The spherical isotropy was evaluated with the procedure and found to be better than ± 0.25 dB.

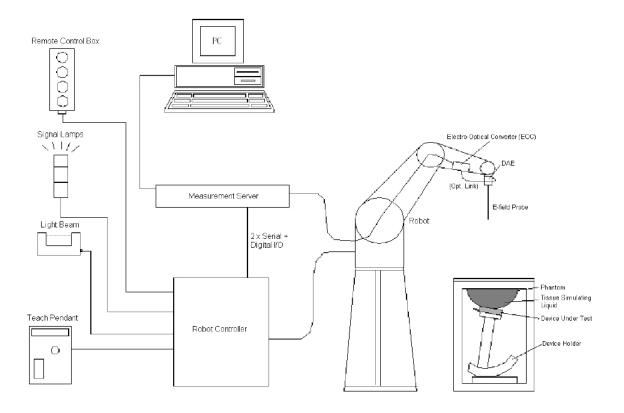
The phantom used was the Generic Twin Phantom". The ear was simulated as a spacer of 4 mm thickness between the earpiece of the phone and the tissue simulating liquid. The Tissue simulation liquid used for each test is in according with the FCC OET65 supplement C as listed below.

Ingredients	Frequency (MHz)										
(% by weight)	45	450		835		915		1900		2450	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	
Water	38.56	52.66	41.45	52.4	41.05	56.0	54.9	40.4	62.7	73.2	
Salt (NaCl)	3.95	1.49	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04	
Sugar	56.32	46.78	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0	
HEC	0.98	0.52	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0	
Bactericide	0.19	0.05	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0	
Triton x-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0	
DGBE	0.0	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7	
Dielectric Constant	43.42	58.0	42.54	56.1	42.0	56.8	39.9	54.0	39.8	52.5	
Conductivity (S/m)	0.85	0.83	0.91	0.95	1.0	1.07	1.42	1.45	1.88	1.78	

Recommended Tissue Dielectric Parameters

Frequency	Head 7	Гissue	Body Tissue		
(MHz)	εr	O'(S/m)	εr	O'(S/m)	
150	52.1	0.76	61.9	0.80	
300	45.3	0.87	58.2	0.92	
450	43.5	0.87	56.7	0.94	
835	41.5	0.90	55.2	0.97	
900	41.5	0.97	55.0	1.05	
915	41.5	0.98	55.0	1.06	
1450	40.5	1.20	54.0	1.30	
1610	40.3	1.29	53.8	1.40	
1800-2000	40.0	1.40	55.6	1.52	
2450	39.2	1.80	52.7	1.95	
3000	38.5	2.40	52.0	2.73	
5200	36.0	4.66	49.0	5.30	
5500	35.6	4.96	48.6	5.65	
5800	35.3	5.27	48.2	6.00	

Measurement System Diagram



The DASY4 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Stäubli RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 2000 or Windows XP.
- DASY4 software.

- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand and right-hand usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing system validation.

System Components

- DASY4 Measurement Server
- Data Acquisition Electronics
- Probes
- Light Beam Unit
- Medium
- SAM Twin Phantom
- Device Holder for SAM Twin Phantom
- System Validation Kits
- Robot

DASY4 Measurement Server

The DASY4 measurement server is based on a PC/104 CPU board with a 166MHz low-power Pentium, 32MB chip disk and 64MB RAM. The necessary circuits for communication with either the DAE4 (or DAE3) electronic box as well as the 16-bit AD-converter system for optical detection and digital I/O interface are contained on the DASY4 I/O-board, which is directly connected to the PC/104 bus of the CPU board.



The measurement server performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation. The PC-operating system cannot interfere with these time critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with two expansion slots which are reserved for future applications. Please note that the expansion slots do not have a standardized pin out and therefore only the expansion cards provided by SPEAG can be inserted. Expansion cards from any other supplier could seriously damage the measurement server.

Data Acquisition Electronics

The data acquisition electronics DAE3 consists of 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 measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.



Probes

The DASY system can support many different probe types.

Dosimetric Probes: These probes are specially designed and calibrated for use in liquids with high permittivities. They should not be used in air, since the spherical isotropy in air is poor (±2 dB). The dosimetric probes have special calibrations in various liquids at different frequencies.

Free Space Probes: These are electric and magnetic field probes specially designed for measurements in free space. The z-sensor is aligned to the probe axis and the rotation angle of the x-sensor is specified. This allows the DASY system to automatically align the probe to the measurement grid for field component measurement. The free space probes are generally not calibrated in liquid. (The H-field probes can be used in liquids without any change of parameters.)

ET3DV6 Probe Specification

Construction Symmetrical design with triangular core Built-in optical fiber for surface detection System Built-in shielding against static charges Calibration In air from 10 MHz to 2.5 GHz In brain and muscle simulating tissue at Frequencies of 450 MHz, 900 MHz and 1.8 GHz (accuracy \pm 8%) Frequency 10 MHz to > 6 GHz; Linearity: \pm 0.2 dB

(30 MHz to 3 GHz)

Directivity \pm 0.2 dB in brain tissue (rotation around probe axis) \pm 0.4 dB in brain tissue (rotation normal probe axis)

Dynamic 5 mW/g to > 100 mW/g;

Range Linearity: ± 0.2 dB

Surface \pm 0.2 mm repeatability in air and clear liquids

Detection 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 dosimetric up to 3 GHz

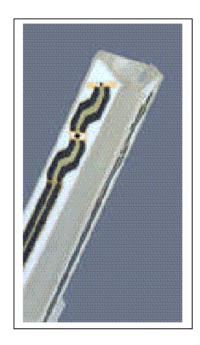
Compliance tests of mobile phones

Fast automatic scanning in arbitrary phantoms



Photograph of the probe

The SAR measurements were conducted with the dosimetric probe ET3DV6 designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe is constructed using the thick film technique; with printed resistive lines on ceramic substrates. The probe is equipped with an optical multi-fiber line ending at the front of the probe tip. It is connected to the EOC box on the robot arm and provides an automatic detection of the phantom surface. Half of the fibers are connected to a pulsed infrared transmitter, the other half to a synchronized receiver. As the probe approaches the surface, the reflection from the surface produces a coupling from the transmitting to the receiving fibers. This reflection increases first during the approach, reaches maximum and then decreases. If the probe is flatly touching the surface, the coupling is zero. The distance of the coupling maximum to the surface is independent of the surface reflectivity and largely independent of the surface to probe angle. The DASY3 software reads the reflection during a software approach and looks for the maximum using a 2nd order fitting. The approach is stopped when reaching the maximum.



Inside view of ET3DV6 E-field Probe

E-Field Probe Calibration Process

Each probe is calibrated according to a dosimetric assessment procedure described in [6] with accuracy better than +/- 10%. The spherical isotropy was evaluated with the procedure described in [7] and found to be better than +/-0.25dB. The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies bellow 1 GHz, and in a waveguide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

Data Evaluation

The DASY4 Post processing software (SEMCAD) automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2

Conversion factor ConvFiDiode compression point dcpi

Device parameters: - Frequency f

- Crest factor cf

Media parameters: - Conductivity σ

- Density ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

With Vi = compensated signal of channel i (i = x, y, z)

Ui = input signal of channel i (i = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcp_i = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E – field
probes :
$$E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}}$$

H – field
probes :
$$H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}$$

With Vi = compensated signal of channel i (i = x, y, z)

 $Norm_i = sensor sensitivity of channel i (i = x, y, z)$

 $\mu V/(V/m)^2$ for E-field probes

ConF = sensitivity enhancement in solution

a_{ii} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

Ei = electric field strenggy of channel i in V/m

H_i = diode compression point (DASY parameter)

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The primary field data are used to calculate the derived field units.

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1'000}$$

With SAR = local specific absorption rate in mW/g

 E_{tot} = total field strength in V/m

 σ = conductivity in [mho/meter] or [Siemens/meter]

 ρ = equivalent tissue density in g/cm³

Note that the density is normally set to 1, to account for actual brain density rather than the density of the simulation liquid.

Light Beam Unit

The light beam switch allows automatic "tooling" of the probe. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, so that the robot coordinates are valid for the probe tip. The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.

Medium

Parameters

The parameters of the tissue simulating liquid strongly influence the SAR in the liquid. The parameters for the different frequencies are defined in the corresponding compliance standards (e.g., EN 50361, IEEE 1528-2003).

Parameter measurements

Several measurement systems are available for measuring the dielectric parameters of liquids:

- The open coax test method (e.g., HP85070 dielectric probe kit) is easy to use, but has only moderate
 acuracy. It is calibrated with open, short, and deionized water and the calibrations a critical
 process.
- The transmission line method (e.g., model 1500T from DAMASKOS, INC.) measures the transmission and reflection in a liquid filled high precision line. It needs standard two port calibration and is probably more accurate than the open coax method.
- The reflection line method measures the reflection in a liquid filled shorted precision lined. The method is not suitable for these liquids because of its low sensitivity.

• The slotted line method scans the field magnitude and phase along a liquid filled line. The evaluation is straight forward and only needs a simple response calibration. The method is very accurate, but can only be used in high loss liquids and at frequencies above 100 to 200MHz. Cleaning the line can be tedious.

SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas:

- Left hand
- Right hand
- Flat phantom

The phantom table comes in two sizes: A $100 \times 50 \times 85$ cm (L x W x H) table for use with free standing robots (DASY4 professional system option) or as a second phantom and a $100 \times 75 \times 85$ cm(L x W x H) table with reinforcements for table mounted robots (DASY4 compact system option).



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. Only one device holder is necessary if two phantoms are used (e.g., for different liquids) A white cover is provided to tap the phantom during o_-periods to prevent water evaporation and changes in the liquid parameters. Free space scans of devices on the cover are possible. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

The phantom can be used with the following tissue simulating liquids:

- Water-sugar based liquids can be left permanently in the phantom. Always cover the liquid if the system is not used, otherwise the parameters will change due to water evaporation.
- Glycol based liquids should be used with care. As glycol is a softener for most plastics, the liquid should be taken out of the phantom and the phantom should be dried when the system is not used (desirable at least once a week).
- Do not use other organic solvents without previously testing the phantom's compatibility.

Device Holder for SAM Twin Phantom

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source in 5mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of $\pm 20\%$. An accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions, in which the devices must be measured, are defined by the standards.

The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centers for both scales are the ear reference point ERP). Thus the device needs no repositioning when changing the angles.



The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity "=3 and loss tangent _=0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

System Validation Kits

Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. For that purpose a well defined SAR distribution in the flat section of the SAM twin phantom is produced.

System validation kit includes a dipole, tripod holder to fix it underneath the flat phantom and a corresponding distance holder. Dipoles are available for the variety of frequencies between 300MHz and 6 GHz (dipoles for other frequencies or media and other calibration conditions are available upon request).

The dipoles are highly symmetric and matched at the center frequency for the specified liquid and distance to the flat phantom (or flat section of the SAM-twin phantom). The accurate distance between the liquid surface and the dipole center is achieved with a distance holder that snaps on the dipole.

Robot

The DASY4 system uses the high precision industrial robots RX60L, RX90 and RX90L, as well as the RX60BL and RX90BL types out of the newer series from Stäubli SA (France). The RX robot series offers many features that are important for our application:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance-free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchronous motors; no stepper motors)
- Low ELF interference (the closed metallic construction shields against motor control fields)

For the newly delivered DASY4 systems as well as for the older DASY3 systems delivered since 1999, the CS7MB robot controller version from Stäubli is used. Previously delivered systems have either a CS7 or CS7M controller; the differences to the CS7MB are mainly in the hardware, but some procedures in the robot software from Stäubli are also not completely the same. The following descriptions about robot hard- and software correspond to CS7MB controller with software version 13.1 (edit S5). The actual commands, procedures and configurations, also including details in hardware, might differ if an older robot controller is in use. In this case please also refer to the Stäubli manuals for further information.



5 EQUIPMENT LIST AND CALIBRATION

5.1 Equipments List & Calibration Info

Type/Model	Calibration Due Date	S/N:
DASY4 Professional Dissymmetric System	N/A	N/A
Robot RX60L	N/A	CS7MBSP / 467
Robot Controller	N/A	F01/5J72A1/A/01
Dell Computer Dimension 3000	N/A	N/A
SPEAG EDC3	N/A	N/A
SPEAG DAE3	2014-03-16	456
DASY4 Measurement Server	N/A	1176
Schmid & Partner ES3DV2	2012-08-25	3019
Antenna, Dipole, ALS-D-835-S-2	2012-10-25	180-00564
Antenna, Dipole, ALS-D-1900-S-2	2012-10-25	210-00715
Antenna, Dipole, D-2450-S-1 *	2014-07-25	BCL-141
Brain Equivalent Matter (835 MHz)	Each Time	N/A
Muscle Equivalent Matter (835 MHz)	Each Time	N/A
Brain Equivalent Matter (1900 MHz)	Each Time	N/A
Muscle Equivalent Matter (1900 MHz)	Each Time	N/A
Muscle Equivalent Matter (2450 MHz)	Each Time	N/A
SPEAG Generic Twin Phantom	N/A	N/A
Agilent, Spectrum Analyzer E4440A	2013-05-09	MY44303352
Microwave Amp. 8349A	N/A	2644A02662
Power Meter Agilent E4419B	2013-05-09	MY4121511
Agilent 8960 (E5515C) Wireless Communication Tester	2013-06-11	GB44051221
Dielectric Probe Kit HP85070A	N/A	US99360201
Amplifier, ST181-20	N/A	E012-0101
Antenna, Horn DRH-118	N/A	A052704
HP, Signal Generator, 83650B	2013-06-21	3614A00276

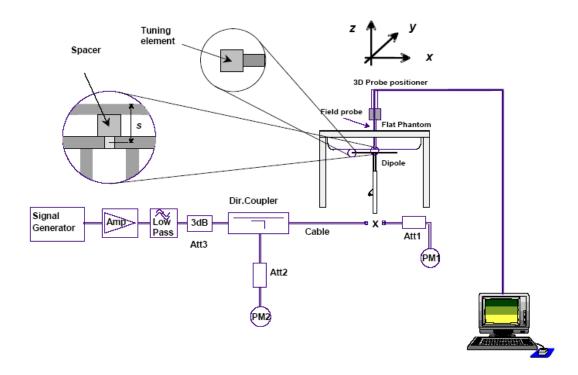
^{*}Note: In house verification was performed on D-2450-S-1; equipment is still in tolerance.

6 SAR MEASUREMENT SYSTEM VERIFICATION

6.1 System Accuracy Verification

Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of $\pm 10\%$. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

6.2 System Verification Setup



The dipole must be placed beneath at the phantom section of the SAM Twin Phantom with the correct distance spacer in place. The distance spacer should touch the phantom surface with a light pressure at the reference marking (little cross) and be oriented parallel to the long side of the phantom. The forward power into the dipole at the dipole SMA connector should be determined as accurately as possible.

6.3 Liquid and System Validation Results

Measured Date	Simulant	Freq. [MHz]	Parameters	Liquid Temp [°C]	Target Value	Measured Value	Deviation [%]	Limits [%]
			ερ	22	55.2	54.5	-1.27	± 5
2012-08-17	Body	835	σ	22	0.97	0.96	-1.03	± 5
			1g SAR	22	9.981	9.72	-2.61	± 10
			ερ	22	41.5	41.5	0	± 5
2012-08-17	Head	835	σ	22	0.9	0.89	-1.11	± 5
			1g SAR	22	9.590	9.66	0.73	± 10
			ερ	22	55.6	52.2	-2.06	± 5
2012-08-17	Body	1900	σ	22	1.52	1.5	-1.32	± 5
			1g SAR	22	39.654	40.6	2.39	± 10
			ερ	22	40	39.9	-0.25	± 5
2012-08-17	Head	1900	σ	22	1.4	1.38	-1.43	± 5
			1g SAR	22	39.378	40.2	2.09	± 10
			ερ	22	52.7	50.7	-3.80	± 5
2012-08-24	Body	2450	σ	22	1.95	2.02	3.59	± 5
			1g SAR	22	53.115	54.2	2.04	± 10

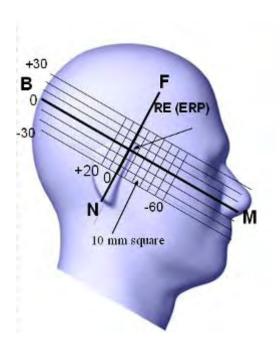
 $\varepsilon r = relative \ permittivity, \ \sigma = conductivity \ and \ \rho = 1000 \ kg/m^3$

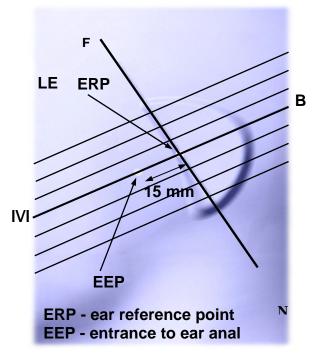
7 EUT TEST STRATEGY AND METHODOLOGY

7.1 Test Positions for Device Operating Next to a Person's Ear

This category includes most wireless handsets with fixed, retractable or internal antennas located toward the top half of the device, with or without a foldout, sliding or similar keypad cover. The handset should have its earpiece located within the upper ¼ of the device, either along the centerline or off-centered, as perceived by its users. This type of handset should be positioned in a normal operating position with the "test device reference point" located along the "vertical centerline" on the front of the device aligned to the "ear reference point". The "test device reference point" should be located at the same level as the center of the earpiece region. The "vertical centerline" should bisect the front surface of the handset at its top and bottom edges. An "ear reference point" is located on the outer surface of the head phantom on each ear spacer. It is located 1.5 cm above the center of the ear canal entrance in the "phantom reference plane" defined by the three lines joining the center of each "ear reference point" (left and right) and the tip of the mouth.

A handset should be initially positioned with the earpiece region pressed against the ear spacer of a head phantom. For the SCC-34/SC-2 head phantom, the device should be positioned parallel to the "N-F" line defined along the base of the ear spacer that contains the "ear reference point". For interim head phantoms, the device should be positioned parallel to the cheek for maximum RF energy coupling. The "test device reference point" is aligned to the "ear reference point" on the head phantom and the "vertical centerline" is aligned to the "phantom reference plane". This is called the "initial ear position". While maintaining these three alignments, the body of the handset is gradually adjusted to each of the following positions for evaluating SAR:





7.2 Cheek/Touch Position

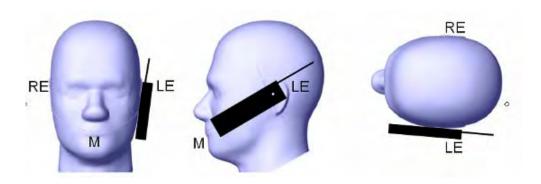
The device is brought toward the mouth of the head phantom by pivoting against the "ear reference point" or along the "N-F" line for the SCC-34/SC-2 head phantom.

This test position is established:

- o When any point on the display, keypad or mouthpiece portions of the handset is in contact with the phantom.
- o (or) When any portion of a foldout, sliding or similar keypad cover opened to its intended self-adjusting normal use position is in contact with the cheek or mouth of the phantom.

For existing head phantoms – when the handset loses contact with the phantom at the pivoting point, rotation should continue until the device touches the cheek of the phantom or breaks its last contact from the ear spacer.

Cheek / Touch Position



7.3 Ear/Tilt Position

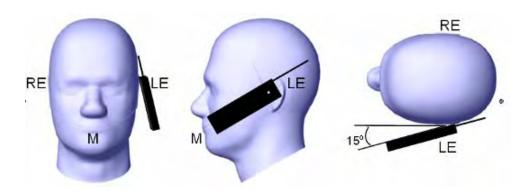
With the handset aligned in the "Cheek/Touch Position":

- 1) If the earpiece of the handset is not in full contact with the phantom's ear spacer (in the "Cheek/Touch position") and the peak SAR location for the "Cheek/Touch" position is located at the ear spacer region or corresponds to the earpiece region of the handset, the device should be returned to the "initial ear position" by rotating it away from the mouth until the earpiece is in full contact with the ear spacer.
- 2) (otherwise) The handset should be moved (translated) away from the cheek perpendicular to the line passes through both "ear reference points" (note: one of these ear reference points may not physically exist on a split head model) for approximate 2-3 cm. While it is in this position, the device handset is tilted away from the mouth with respect to the "test device reference point" until the inside angle between the vertical centerline on the front surface of the phone and the horizontal line passing through the ear reference point isby 15 80°. After the tilt, it is then moved (translated) back toward the head perpendicular to the line passes through both "ear reference points" until the device touches the phantom or the ear spacer. If the antenna touches the head first, the positioning process should be repeated with a tilt angle less than 15° so that the device and its antenna would touch the phantom simultaneously. This test position may require a device holder or positioner to achieve the translation and tilting with acceptable positioning repeatability.

If a device is also designed to transmit with its keypad cover closed for operating in the head position, such positions should also be considered in the SAR evaluation. The device should be tested on the left and right side of the head phantom in the "Cheek/Touch" and "Ear/Tilt" positions. When applicable, each configuration should be tested with the antenna in its fully extended and fully retracted positions. These test configurations should be tested at the high, middle and low frequency channels of each operating mode; for example, AMPS, CDMA, and TDMA. If the SAR measured at the middle channel for each test configuration (left, right, Cheek/Touch, Tile/Ear, extended and retracted) is at least 2.0 dB

lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s). If the transmission band of the test device is less than 10 MHz, testing at the high and low frequency channels is optional.

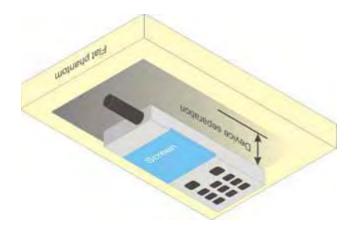
Ear /Tilt 15° Position



7.4 Test positions for body-worn and other configurations

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. When multiple accessories that do not contain metallic components are supplied with the device, the device may be tested with only the accessory that dictates the closest spacing to the body. When multiple accessories that contain metallic components are supplied with the device, the device must be tested with each accessory that contains a unique metallic component. If multiple accessories share an identical metallic component (e.g., the same metallic belt-clip used with different holsters with no other metallic components), only the accessory that dictates the closest spacing to the body must be tested.

Body-worn accessories may not always be supplied or available as options for some devices that are intended to be authorized for body-worn use. A separation distance of 1.5 cm between the back of the device and a flat phantom is recommended for testing body-worn SAR compliance under such circumstances. Other separation distances may be used, but they should not exceed 2.5 cm. In these cases, the device may use body-worn accessories that provide a separation distance greater than that tested for the device provided however that the accessory contains no metallic components.



7.5 SAR Evaluation Procedure

The evaluation was performed with the following procedure:

- **Step 1:** Measurement of the SAR value at a fixed location above the ear point or central position was used as a reference value for assessing the power drop. The SAR at this point is measured at the start of the test and then again at the end of the testing.
- **Step 2:** The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head or EUT and the horizontal grid spacing was 15 mm x 15 mm. Based on these data, the area of the maximum absorption was determined by line interpolation. The first Area Scan covers the entire dimension of the EUT to ensure that the hotspot was correctly identified.
- **Step 3**: Around this point, a volume of 30 mm x 30 mm x 21 mm was assessed by measuring 5 x 5 x 7 points. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:
 - 1. The data at the surface were extrapolated, since the center of the dipoles is 1.2 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
 - 2. The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one dimensional splines with the "Not a knot"-condition (in x, y and z-directions). The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the averages.
 - 3. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- **Step 4**: Re-measurement of the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation was repeated.

8 DASY4 SAR EVALUATION PROCEDURE

8.1 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement jobs are useful jobs for monitoring the power drift of the device under test in the batch process. Both jobs measure the field at a specified reference position, at a selectable distance from the phantom surface. The reference position can be either the selected section's grid reference point or a user point in this section. The reference job projects the selected point onto the phantom surface, orients the probe perpendicularly to the surface, and approaches the surface using the selected detection method. The Minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. By default, the Minimum distance of probe sensors to surface is 4mm. This distance can be modified by the user, but cannot be smaller than the Distance of sensor calibration points to probe tip as defined in the probe properties (for example, 2.7mm for an ET3DV6 probe type).

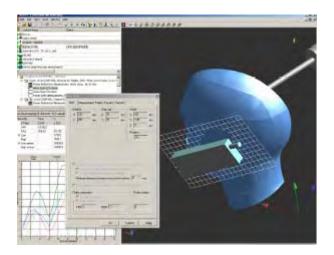
8.2 Area Scan

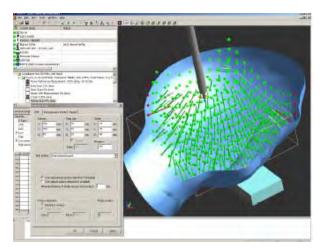
The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a finer measurement around the hot spot. The sophisticated interpolation routines implemented in DASY4 software can find the maximum locations even in relatively coarse grids.

The scanning area is defined by an editable grid. This grid is anchored at the grid reference point of the selected section in the phantom. When the Area Scan's property sheet is brought-up, grid settings can be edited by a user.

When an Area Scan has measured all reachable points, it computes the field maxima found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE 1528-2003, EN 50361 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan). If only one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of Zoom Scans has to be increased accordingly.

After measurement is completed, all maxima and their coordinates are listed in the Results property page. The maximum selected in the list is highlighted in the 3-D view. For the secondary maxima returned from an Area Scan, the user can specify a lower limit (peak SAR value), in addition to the Find secondary maxima within x dB condition. Only the primary maximum and any secondary maxima within x dB from the primary maximum and above this limit will be measured.





8.3 Zoom Scan

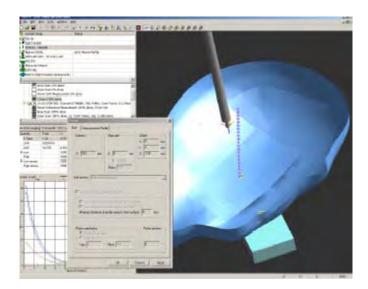
Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The default Zoom Scan measures 5 x 5 x 7 points within a cube whose base faces are centered around the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1 g and 10 g and displays these values next to the job's label.

8.4 Power drift measurement

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. Several drift measurements are possible for one reference measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

8.5 Z-Scan

The Z Scan job measures points along a vertical straight line. The line runs along the Z axis of a one-dimensional grid. A user can anchor the grid to the section reference point, to any defined user point or to the current probe location. As with any other grids, the local Z axis of the anchor location establishes the Z axis of the grid.



9 FCC 3G MEASUREMENT PROCEDURES

Power measurements were performed using a base station simulator under average power.

Procedures Used to Establish RF Signal for SAR

The following procedures are applicable to HSDPA data devices operating under 3GPP Release 5. Body exposure conditions are typically applicable to these devices, including handsets and data modems operating in various electronics devices. HSDPA operates in conjunction with WCDMA and requires an active DPCCH. The default test configuration is to measure SAR in WCDMA and requires without HSDPA, with an established radio link between the DUT and communication test set using a 12.2kbps RMC configured in Test Loop Mode 1; and test HSDPA within FRC and a 12.2 kbps RMC using highest SAR configuration in WCDMA. SAR is selectively confirmed for other physical channels configurations according to output power, exposure conditions and device operating capabilities. Maximum output power is verified according to 3GPP TS 23.121 (Release 5) and SAR must be measured according to these maximum output conditions.

The device was placed into a simulated call using a base station simulator in a shielded chamber. Such test signals offer a consistent means for testing SAR and recommended for evaluating SAR [4]. SAR measurements were taken with a fully charged battery. In order to verify that the device was tested and maintained at full power, this was configured with the base station simulator. The SAR measurement software calculates a reference point at the start and end of the test to check for power drifts. If conducted power deviations of more that 5% occurred, the test were repeated.

SAR Measurement Conditions for HSDPA Data Devices

Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121 (release 5), using the appropriate RMC with TPC (Transmit Power Control) set to all "1s". Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH) are tabulated in the test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations is identified.

For WCDMA/HSDPA/HSUPA

Configure the Agilent 8960 to support all WCDMA tests in respect to the 3GPP TS 34.121, measure the power at channel 4132, 4182 abd 4233 for UC cellular, channel 9262, 9400 and 9538 for US PCS band.

For Rel 99:

Set the test mode 1 loop using 12.2kbps RMC. Set and send continuously up power control commands to the EUT. And measure the power through the antenna connector of the EUT.

For HSDPA Rel 6:

Set the test mode 1 loop using 12.2kbps RMC abd a H-set1 FRC. Set the HSDPA setting for HSDPA sebtest 1 and send the continuously up power command to the EUT. And measure the power through the antenna connector of the EUT. Repeat the measurement for sub test 2, 3 and 4.

For HSUPA Rel 6:

Set the test mode 1 loop using 12.2kbps RMC abd a H-set1 FRC. Set the HSUPA setting for HSDPA sebtest 1. Set the UNDP power to at least 5dB lower then the MAX output power. Send power control bit to give TPC_cmd=+1 command to the UNDP. Confirm the E-TFCI transmitted by the UNDP is equal to the target E-TFCI in 3GPP TS 34.121. And measure the power through the antenna connector of the EUT. Repeat the measurement for sub test 2, 3, 4 and 5.

For GSM/GPRS/EDGE

This EUT is a class B device which means the EUT can connect to GPRS and GSM service but using only one or the other at the given time.

And the EUT has one time slot transmission and two time slots (two UL and two DL MAX) transmission for GMSK GPRS. And one time slot for 8PSK EDGE.

Configure the 8960 to support GPRS and EDGE, and set one time slot transmission for GPRS and EDGE. Measure the power output from the antenna port of the EUT. Repeat the measurement by configure the 2 time slots for GPRS.

Body SAR Measurements

For WCDMA/HSDPA/HSUPA

SAR body exposure configuration is measured using 12.2 kbps RMC with the TPC bits configured for all "1s". SAR for other spreading codes and multiple DPDCH_n, when supported by the DUT, are not required when the maximum average outputs of each RF channel, for each spreading code and DPDCH_n configuration, are less than ½ dB higher than those measured in 12.2 RMC. Otherwise, SAR is measured on the maximum output channel with an applicable RMS configuration that results in the highest SAR with 12.2 RMC. When more that

2 DPDCH_n are supported by the DUT, it may be necessary to configure additional DPDCH_n for DUT using FTM (Factory Test Mode) with parameters similar to those used in 384 kbps and 768 kbps RMC. In addition, body SAR is also measured in HSDPA with an FRC, together with a 12.2 kbps RMC configured in Test Loop Mode 1, using the highest body SAR configuration in 12.2 kbps RMC without HSDPA.

The H-set used in FRC for HSDPA should be configured according to the UE category of a test device. The number of HS-DSCH/HSDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the applicable H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the FRC for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 2 ms to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors of β_c =9 and β_d =15, and power offset parameters of $\Delta_{ACK} = \Delta_{NACK} = 5$ and $\Delta_{CQI} = 2$ should be used. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the FRC.

For GSM/GPRS/EDGE

SAR body exposure configuration is measured using GPRS 4 time slots as the time average power is higher then GPRS 1 time slot and EDGE.

Agilent 8960 measures the average output power for active timeslots. For SAR the time-based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

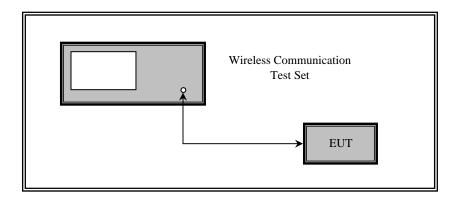
Number of Timeslots	1	2	3	4
Duty Cycle	1:8	1:4	1:2.67	1:2
Time-based Ave. power compared to slotted Ave. power	- 9.03 dB	- 6.02 dB	- 4.26 dB	- 3.01 dB

10 RF OUTPUT VERIFICATION

10.1 Test Procedure and Block Diagram

Conducted:

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.



10.2 Test Results

GSM/GPRS/EDGE: Cellular Band

Mode	Channel	Frequency (MHz)	Conducted Output Power dBm)				
	128	824.2		31	.94		
GSM	190	836.6		31	.94		
	251	848.8		31	.94		
Mode	Channel	Frequency Conducted Ou			t Power Note	(dBm)	
Mode	Chamiei	(MHz)	1 slot	2 slots	3 slots	4 slots	
	128	824.2	31.8	31.14	29.51	28.7	
GPRS	190	836.6	31.81	31.15	29.49	28.71	
	251	848.8	31.82	31.12	29.46	28.69	
	128	824.2	27.02	25.76	23.36	22.03	
EDGE	190	836.6	26.83	26.08	23.48	22.15	
	251	848.8	26.92	25.39	23.42	22.01	

GSM/GPRS/EDGE: PCS Band

Mode	Channel	Frequency (MHz)	Conducted Output Power (dBm)				
	512	1850.2		29	.45		
GSM	661	1880.0	29.41				
	810	1909.8	29.52				
Mode	Channel	Frequency (MHz)	Conducted Output Power Note 1 (dBm)				
Mode	Chamie		1 slot	2 slots	3 slots	4 slots	
	512	1850.2	29.59	28.66	27.03	26.23	
GPRS	661	1880.0	29.55	28.66	27.02	26.21	
	810	1909.8	29.65	28.76	27.15	26.37	
	512	1850.2	25.53	24.33	22.31	20.76	
EDGE	661	1880.0	25.42	24.28	22.48	20.64	
	810	1909.8	25.34	24.06	21.74	20.37	

Time-based Average Output Power

Mode	Channel	Frequency	Time-Based Average Power (dBm)					
Mode	Chamiei	(MHz)	1 slot	2 slots	3 slots	4 slots		
	Cellular Band							
	128	824.2	22.79	25.12	25.25	25.69		
GPRS	190	836.6	22.80	25.13	25.23	25.70		
	251	848.8	22.81	25.10	25.20	25.68		
	128	824.2	17.99	19.74	19.1	19.02		
EDGE	190	836.6	17.8	20.06	19.22	19.14		
	251	848.8	17.89	19.37	19.16	19		
	PCS Band							
	512	1850.2	20.56	22.64	22.77	23.22		
GPRS	661	1880.0	20.52	22.64	22.76	23.20		
	810	1909.8	21.62	22.74	20.89	23.36		
	512	1850.2	16.5	18.31	18.05	17.75		
EDGE	661	1880.0	16.39	18.26	18.22	17.63		
	810	1909.8	16.31	18.04	17.48	17.36		

Note: GPRS 4 slots have the worst time average power output, all GPRS SAR result are base on the 4 slots configurations.

WCDMA/HSPA

	2CDD	Conducted Output Power (dBm)						
Mode	3GPP Sub test		Cellular Ban	d	PCS Band			
		Low CH	Mid CH	High CH	Low CH	Mid CH	High CH	
Rel 99	1	22.48	22.73	22.37	22.64	22.63	22.82	
	1	22.14	22.44	22.03	22.51	22.31	22.70	
Rel 6 HSDPA	2	22.05	22.25	21.76	22.12	21.84	22.34	
Kei o HSDFA	3	21.82	22.02	21.34	22.07	21.81	22.22	
	4	21.35	21.79	21.14	21.97	21.63	22.14	
	1	21.83	21.78	21.66	21.82	21.64	21.79	
Rel 6 HSUPA	2	20.26	20.03	20.45	20.12	20.71	20.82	
	3	20.82	20.84	20.67	20.64	20.89	21.12	
	4	20.54	20.35	20.61	20.12	20.11	20.25	
	5	21.81	21.42	21.53	21.98	21.90	21.84	

Note: HSPA Body SAR is not required for this device since the maximum average output power of each RF channel with HSPA active is lower than that measured without HSPA (Release 99)+ ½ dB

2.4 GHz Wi-Fi

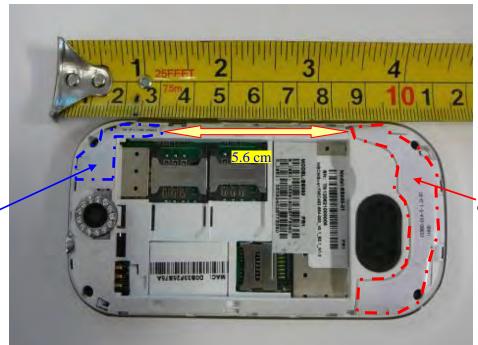
Mode	Channel	Frequency (MHz)	Conducted Output Power (dBm)
	Low	2412	13.62
802.11b	Middle	2437	13.31
	High	2462	12.94
	Low	2412	12.1
802.11g	Middle	2437	12.06
	High	2462	11.73
	Low	2412	12.36
802.11n20	Middle	2437	12.60
	High	2462	12.43

Note: SAR is not required for 802.11g/n20 channels when the maximum average output power is less than $\frac{1}{4}$ dB higher than that measured on the corresponding 802.11g/n20 channels

Bluetooth

Mode	Channel	Frequency	Conducted Output Power (dBm)				
	Chamiei	(MHz)	GFSK	π/4-DQPSK	8DPSK		
Bluetooth	1	2402	5.94	6.8	7.03		
	40	2441	5.88	6.61	7.09		
	79	2480	5.81	6.31	6.84		

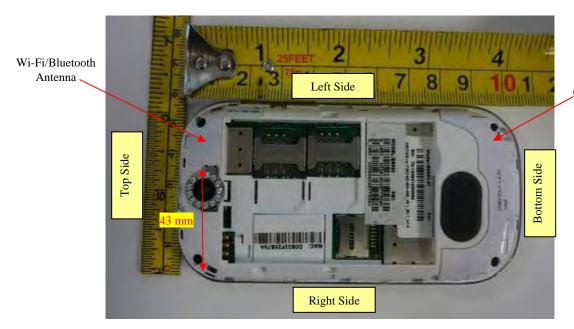
Note 1: Two antennas are available for the EUT, GSM and Bluetooth antennas. According to KDB 648474, if the Max Output Power of Bluetooth <2PRef (24 mW) and the distance between other antennas is \geq 5cm, the stand alone SAR for Bluetooth is not required. The distance between BT and GSM is 5.6 cm and the max output power of BT is 5.11 mw. The stand alone SAR for BT is not required; therefore, simultaneous transmission SAR evaluation is also not required for GSM antenna. Please refer to the following antenna location information in details.



Wi-Fi/Bluetooth Antenna GSM/GPRS/WCDMA Antenna

Note 2: According to 941225 D06 Hot Spot SAR:

If the device length and width are \geq 9cm X 5cm respectively, a test separation of 10 mm is required. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25 mm from that surface edge.



GSM/GPRS/WCDMA Antenna

- 1) SAR measurement of Wi-Fi: Right side and bottom side with 10 mm distance is not required. The distance between the Wi-Fi antenna and the right edge and bottom edge is greater than 25 mm
- 2) SAR measurement of WCDMA/GPRS: Top side with 10 mm distance is not required. The distance between the GSM/GPRS/WCDMA antenna is greater than 25 mm
- 3) Hot spot mode does not apply to GSM

Simultaneous Transmission SAR evaluation table

Position	Mode	1g SAR (W/kg)	Sum of 1g (W/kg)
Body worn-Front side	Wi-Fi	0.016	0.917
Body worn-Profit side	GPRS	0.901	0.917
Body worn-Back side	Wi-Fi	0.053	1.503
Body worn-back side	WCDMA	1.45	1.505
Body Worn-Right Side	Wi-Fi	-	
Body Wolli-Right Side	GPRS	0.680	-
Dody Worm Left Side	Wi-Fi	0.036	0.648
Body Worn-Left Side	GPRS	0.612	0.048
Dody Worm Dottom Side	Wi-Fi	-	
Body Worn- Bottom Side	WCDMA	0.541	-
Dody Worm Ton Side	Wi-Fi	0.028	
Body Worn -Top Side	GPRS/WCDMA	-	-

Result: The sum of 1g SAR are below 1.6 W/kg, therefore, simultaneous transmission is not required.

11 SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation. The plots with the corresponding SAR distributions, which reveal information about the location of the maximum SAR with respect to the device, could be found in Appendix E.

11.1 Test Environmental Conditions

Temperature:	21-23 °C
Relative Humidity:	45-50 %
ATM Pressure:	101.7–102.1kPa

GSM/GPRS/WCDMA: Testing was performed by Ricky Wang and Arthur Tie on 2012-08-18 ~ 2012-08-21 in SAR chamber.

Wi-Fi: Testing was performed by Ricky Wang 2012-08-24 in SAR chamber.

Cellular Band, GSM

EUT Position	Frequency (MHz)	Channel	Test Type	Antenna Type	Phantom	Accessories	SAR Value (W/Kg) 1g Tissue	Limit (W/Kg) 1g Tissue	Plot #
1.0 cm Body-Worn Front Side	824.2	Low	GSM	Integral	Flat	Headset	0.296	1.6	1
1.0 cm Body-Worn Front Side	836.6	Middle	GSM	Integral	Flat	Headset	0.388	1.6	2
1.0 cm Body-Worn Front Side	848.8	High	GSM	Integral	Flat	Headset	0.460	1.6	3
1.0 cm Body-Worn Back Side	824.2	Low	GSM	Integral	Flat	Headset	0.723	1.6	4
1.0 cm Body-Worn Back Side	836.6	Middle	GSM	Integral	Flat	Headset	0.764	1.6	5
1.0 cm Body-Worn Back Side	848.8	High	GSM	Integral	Flat	Headset	0.722	1.6	6
Right Head Tilt	836.6	Middle	GSM	Integral	Right Head	/	0.293	1.6	7
Right Head Touch	836.6	Middle	GSM	Integral	Right Head	/	0.563	1.6	8
Left Head Tilt	836.6	Middle	GSM	Integral	Left Head	/	0.284	1.6	9
Left Head Touch	836.6	Middle	GSM	Integral	Left Head	/	0.592	1.6	10

Note: Hot spot capability does not apply to GSM. Stand alone SAR is compliant with 1.0 cm distance; therefore, 1.5 m is also compliant.

Cellular Band, WCDMA

EUT Position	Frequency (MHz)	Channel	Test Type	Antenna Type	Phantom	Accessories	SAR Value (W/Kg) 1g Tissue	Limit (W/Kg) 1g Tissue	Plot #
1.0 cm Body-Worn Front Side	826.4	Low	WCDMA	Integral	Flat	/	0.596	1.6	11
1.0 cm Body-Worn Front Side	836.6	Middle	WCDMA	Integral	Flat	/	0.634	1.6	12
1.0 cm Body-Worn Front Side	846.6	High	WCDMA	Integral	Flat	/	0.541	1.6	13
1.0 cm Body-Worn Back Side	826.4	Low	WCDMA	Integral	Flat	/	0.925	1.6	14
1.0 cm Body-Worn Back Side	836.6	Middle	WCDMA	Integral	Flat	/	0.888	1.6	15
1.0 cm Body-Worn Back Side	846.6	High	WCDMA	Integral	Flat	/	0.779	1.6	16
1.0 cm Body-Worn Right Side	826.4	Low	WCDMA	Integral	Flat	/	0.332	1.6	17
1.0 cm Body-Worn Right Side	836.6	Middle	WCDMA	Integral	Flat	/	0.372	1.6	18
1.0 cm Body-Worn Right Side	846.6	High	WCDMA	Integral	Flat	/	0.338	1.6	19
1.0 cm Body-Worn Left Side	826.4	Low	WCDMA	Integral	Flat	/	0.341	1.6	20
1.0 cm Body-Worn Left Side	836.6	Middle	WCDMA	Integral	Flat	/	0.375	1.6	21
1.0 cm Body-Worn Left Side	846.6	High	WCDMA	Integral	Flat	/	0.289	1.6	22
1.0 cm Body-Worn Bottom Side	826.4	Low	WCDMA	Integral	Flat	/	0.187	1.6	23
1.0 cm Body-Worn Bottom Side	836.6	Middle	WCDMA	Integral	Flat	/	0.198	1.6	24
1.0 cm Body-Worn Bottom Side	846.6	High	WCDMA	Integral	Flat	/	0.215	1.6	25
Right Head Tilt	836.6	Middle	WCDMA	Integral	Right Head	/	0.303	1.6	26
Right Head Touch	836.6	Middle	WCDMA	Integral	Right Head	/	0.617	1.6	27
Left Head Tilt	836.6	Middle	WCDMA	Integral	Left Head	/	0.298	1.6	28
Left Head Touch	836.6	Middle	WCDMA	Integral	Left Head	/	0.538	1.6	29

Cellular Band, GPRS

EUT Position	Frequency (MHz)	Channel	Test Type	Antenna Type	Phantom	Accessories	SAR Value (W/Kg) 1g Tissue	Limit (W/Kg) 1g Tissue	Plot #
1.0 cm Body-Worn Front Side	824.2	Low	GPRS *	Integral	Flat	/	0.708	1.6	30
1.0 cm Body-Worn Front Side	836.6	Middle	GPRS *	Integral	Flat	/	0.901	1.6	31
1.0 cm Body-Worn Front Side	848.8	High	GPRS *	Integral	Flat	/	0.841	1.6	32
1.0 cm Body-Worn Back Side	824.2	Low	GPRS *	Integral	Flat	/	1.26	1.6	33
1.0 cm Body-Worn Back Side	836.6	Middle	GPRS *	Integral	Flat	/	1.35	1.6	34
1.0 cm Body-Worn Back Side	848.8	High	GPRS *	Integral	Flat	/	1.3	1.6	35
1.0 cm Body-Worn Right Side	824.2	Low	GPRS *	Integral	Flat	/	0.428	1.6	36
1.0 cm Body-Worn Right Side	836.6	Middle	GPRS *	Integral	Flat	/	0.632	1.6	37
1.0 cm Body-Worn Right Side	848.8	High	GPRS *	Integral	Flat	/	0.680	1.6	38
1.0 cm Body-Worn Left Side	824.2	Low	GPRS *	Integral	Flat	/	0.612	1.6	39
1.0 cm Body-Worn Left Side	836.6	Middle	GPRS *	Integral	Flat	/	0.603	1.6	40
1.0 cm Body-Worn Left Side	848.8	High	GPRS *	Integral	Flat	/	0.565	1.6	41
1.0 cm Body-Worn Bottom Side	824.2	Low	GPRS *	Integral	Flat	/	0.284	1.6	42
1.0 cm Body-Worn Bottom Side	836.6	Middle	GPRS *	Integral	Flat	/	0.358	1.6	43
1.0 cm Body-Worn Bottom Side	848.8	High	GPRS *	Integral	Flat	/	0.380	1.6	44

PCS Band, GSM

EUT Position	Frequency (MHz)	Channel	Test Type	Antenna Type	Phantom	Accessories	SAR Value (W/Kg) 1g Tissue	Limit (W/Kg) 1g Tissue	Plot #
1.0 cm Body-Worn Front Side	1850.2	Low	GSM	Integral	Flat	Headset	0.185	1.6	45
1.0 cm Body-Worn Front Side	1880	Middle	GSM	Integral	Flat	Headset	0.207	1.6	46
1.0 cm Body-Worn Front Side	1909.8	High	GSM	Integral	Flat	Headset	0.230	1.6	47
1.0 cm Body-Worn Back Side	1850.2	Low	GSM	Integral	Flat	Headset	0.563	1.6	48
1.0 cm Body-Worn Back Side	1880	Middle	GSM	Integral	Flat	Headset	0.577	1.6	49
1.0 cm Body-Worn Back Side	1909.8	High	GSM	Integral	Flat	Headset	0.552	1.6	50
Right Head Tilt	1880	Middle	GSM	Integral	Right Head	/	0.091	1.6	51
Right Head Touch	1880	Middle	GSM	Integral	Right Head	/	0.250	1.6	52
Left Head Tilt	1880	Middle	GSM	Integral	Left Head	/	0.070	1.6	53
Left Head Touch	1880	Middle	GSM	Integral	Left Head	/	0.242	1.6	54

Note: Hot spot capability does not apply to GSM. Stand alone SAR is compliant with 1.0 cm distance; therefore, 1.5 m is also compliant.

PCS Band, WCDMA

EUT Position	Frequency (MHz)	Channel	Test Type	Antenna Type	Phantom	Accessories	SAR Value (W/Kg) 1g Tissue	Limit (W/Kg) 1g Tissue	Plot #
1.0 cm Body-Worn Front Side	1852.4	Low	WCDMA	Integral	Flat	/	0.491	1.6	55
1.0 cm Body-Worn Front Side	1880	Middle	WCDMA	Integral	Flat	/	0.424	1.6	56
1.0 cm Body-Worn Front Side	1907.6	High	WCDMA	Integral	Flat	/	0.452	1.6	57
1.0 cm Body-Worn Back Side	1852.4	Low	WCDMA	Integral	Flat	/	1.45	1.6	58
1.0 cm Body-Worn Back Side	1880	Middle	WCDMA	Integral	Flat	/	1.27	1.6	59
1.0 cm Body-Worn Back Side	1907.6	High	WCDMA	Integral	Flat	/	1.32	1.6	60
1.0 cm Body-Worn Right Side	1852.4	Low	WCDMA	Integral	Flat	/	0.329	1.6	61
1.0 cm Body-Worn Right Side	1880	Middle	WCDMA	Integral	Flat	/	0.338	1.6	62
1.0 cm Body-Worn Right Side	1907.6	High	WCDMA	Integral	Flat	/	0.331	1.6	63
1.0 cm Body-Worn Left Side	1852.4	Low	WCDMA	Integral	Flat	/	0.122	1.6	64
1.0 cm Body-Worn Left Side	1880	Middle	WCDMA	Integral	Flat	/	0.101	1.6	65
1.0 cm Body-Worn Left Side	1907.6	High	WCDMA	Integral	Flat	/	0.126	1.6	66
1.0 cm Body-Worn Bottom Side	1852.4	Low	WCDMA	Integral	Flat	/	0.541	1.6	67
1.0 cm Body-Worn Bottom Side	1880	Middle	WCDMA	Integral	Flat	/	0.437	1.6	68
1.0 cm Body-Worn Bottom Side	1907.6	High	WCDMA	Integral	Flat	/	0.423	1.6	69
Right Head Tilt	1880	Middle	WCDMA	Integral	Right Head	/	0.144	1.6	70
Right Head Touch	1880	Middle	WCDMA	Integral	Right Head	/	0.524	1.6	71
Left Head Tilt	1880	Middle	WCDMA	Integral	Left Head	/	0.106	1.6	72
Left Head Touch	1880	Middle	WCDMA	Integral	Left Head	/	0.565	1.6	73

PCS Band, GPRS

EUT Position	Frequency (MHz)	Channel	Test Type	Antenna Type	Phantom	Accessories	SAR Value (W/Kg) 1g Tissue	Limit (W/Kg) 1g Tissue	Plot #
1.0 cm Body-Worn Front Side	1850.2	Low	GPRS *	Integral	Flat	/	0.461	1.6	74
1.0 cm Body-Worn Front Side	1880	Middle	GPRS *	Integral	Flat	/	0.521	1.6	75
1.0 cm Body-Worn Front Side	1909.8	High	GPRS *	Integral	Flat	/	0.564	1.6	76
1.0 cm Body-Worn Back Side	1850.2	Low	GPRS *	Integral	Flat	/	1.21	1.6	77
1.0 cm Body-Worn Back Side	1880	Middle	GPRS *	Integral	Flat	/	1.27	1.6	78
1.0 cm Body-Worn Back Side	1909.8	High	GPRS *	Integral	Flat	/	1.23	1.6	79
1.0 cm Body-Worn Right Side	1850.2	Low	GPRS *	Integral	Flat	/	0.389	1.6	80
1.0 cm Body-Worn Right Side	1880	Middle	GPRS *	Integral	Flat	/	0.377	1.6	81
1.0 cm Body-Worn Right Side	1909.8	High	GPRS *	Integral	Flat	/	0.387	1.6	82
1.0 cm Body-Worn Left Side	1850.2	Low	GPRS *	Integral	Flat	/	0.113	1.6	83
1.0 cm Body-Worn Left Side	1880	Middle	GPRS *	Integral	Flat	/	0.118	1.6	84
1.0 cm Body-Worn Left Side	1909.8	High	GPRS *	Integral	Flat	/	0.151	1.6	85
1.0 cm Body-Worn Bottom Side	1850.2	Low	GPRS *	Integral	Flat	/	0.342	1.6	86
1.0 cm Body-Worn Bottom Side	1880	Middle	GPRS *	Integral	Flat	/	0.365	1.6	87
1.0 cm Body-Worn Bottom Side	1909.8	High	GPRS *	Integral	Flat	/	0.404	1.6	88

Note 1:

1) * 4 slot configuration of GPRS is the worse-case; GPRS was tested with 4 slot configuration.

Wi-Fi Band, 802.11b Mode

EUT Position	Frequency (MHz)	Channel	Test Type	Antenna Type	Phantom	Accessories	SAR Value (W/Kg) 1g Tissue	Limit (W/Kg) 1g Tissue	Plot #
1.0 cm Body-Worn Front Side	2412	Low	802.11b	Integral	Flat	/	0.000348	1.6	89
1.0 cm Body-Worn Front Side	2437	Middle	802.11b	Integral	Flat	/	0.0075	1.6	90
1.0 cm Body-Worn Front Side	2462	High	802.11b	Integral	Flat	/	0.016	1.6	91
1.0 cm Body-Worn Back Side	2412	Low	802.11b	Integral	Flat	/	0.032	1.6	92
1.0 cm Body-Worn Back Side	2437	Middle	802.11b	Integral	Flat	/	0.050	1.6	93
1.0 cm Body-Worn Back Side	2462	High	802.11b	Integral	Flat	/	0.053	1.6	94
1.0 cm Body-Worn Left Side	2412	Low	802.11b	Integral	Flat	/	0.020	1.6	95
1.0 cm Body-Worn Left Side	2437	Middle	802.11b	Integral	Flat	/	0.018	1.6	96
1.0 cm Body-Worn Left Side	2462	High	802.11b	Integral	Flat	/	0.036	1.6	97
1.0 cm Body-Worn Top Side	2412	Low	802.11b	Integral	Flat	/	0.026	1.6	98
1.0 cm Body-Worn Top Side	2437	Middle	802.11b	Integral	Flat	/	0.028	1.6	99
1.0 cm Body-Worn Top Side	2462	High	802.11b	Integral	Flat	/	0.024	1.6	100

12 APPENDIX A – MEASUREMENT UNCERTAINTY

The uncertainty budget has been determined for the DASY4 measurement system and is given in the following Table.

Measurement uncertainty for 300 MHz to 3 GHz

		ASY4 Un Accordin			t			
Error Description	Uncertainty Value	Prob. Dist.	Div.	(c i) 1g	(c i) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(v i) veff
		Measur	ement Sy	ystem				
Probe Calibration	± 6.0 %	N	1	1	1	± 6.0 %	± 6.0 %	œ
Axial Isotropy	± 4.7 %	R	$\sqrt{3}$	0.7	0.7	± 1.9 %	± 1.9 %	∝
Hemispherical Isotropy	± 9.6 %	R	$\sqrt{3}$	0.7	0.7	± 3.9 %	± 3.9 %	∞
Boundary Effects	± 1.0 %	R	$\sqrt{3}$	1	1	± 0.6 %	± 0.6 %	œ
Linearity	± 4.7 %	R	$\sqrt{3}$	1	1	± 2.7 %	± 2.7 %	8
System Detection Limits	± 1.0 %	R	$\sqrt{3}$	1	1	± 0.6 %	± 0.6 %	œ
Readout Electronics	± 0.3 %	N	1	1	1	± 0.3 %	± 0.3 %	œ
Response Time	± 0.8 %	R	$\sqrt{3}$	1	1	± 0.5 %	± 0.5 %	∞
Integration Time	± 2.6 %	R	$\sqrt{3}$	1	1	± 1.5 %	± 1.5 %	8
RF Ambient Conditions	± 3.0 %	R	$\sqrt{3}$	1	1	± 1.7 %	± 1.7 %	∞
Probe Positioner	± 0.4 %	R	$\sqrt{3}$	1	1	± 0.2 %	± 0.2 %	8
Probe Positioning	± 2.9 %	R	$\sqrt{3}$	1	1	± 1.7 %	± 1.7 %	∞
Max. SAR Eval.	± 1.0 %	R	$\sqrt{3}$	1	1	± 0.6 %	± 0.6 %	8
		Test Sa	mple Re	lated				
Device Positioning	± 2.9 %	N	1	1	1	± 2.9 %	± 2.9 %	145
Device Holder	± 3.6 %	N	1	1	1	± 3.6 %	± 2.6 %	5
Power Drift	± 5.0 %	R		1	1	± 2.9 %	± 2.9 %	∞
		Phanto	om and S	etup				
Phantom Uncertainty	± 4.0 %	R	$\sqrt{3}$	1	1	± 2.3 %	± 2.3 %	œ
Liquid Conductivity (Target)	± 5.0 %	R	$\sqrt{3}$	0.64	0.43	± 1.8 %	± 1.2 %	∞
Liquid Conductivity (meas.)	± 2.5 %	N	1	0.64	0.43	± 1.6 %	± 1.1 %	∝
Liquid Permittivity (Target)	± 5.0 %	R	$\sqrt{3}$	0.6	0.49	± 1.7 %	± 1.4 %	œ
Liquid Permittivity (Target)	± 2.5 %	N	1	0.6	0.49	± 1.5 %	± 1.0 %	œ
Combined Std. Uncertainty	-	-	-	-	-	± 10.8 %	± 10.6 %	330
Expanded STD Uncertainty	-	-	-	-	-	± 21.6 %	± 21.1 %	-

13 APPENDIX B – PROBE CALIBRATION CERTIFICATES

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA

Multilateral Agreement for the recognition of calibration certificates

Client

BACL

Accreditation No.: SCS 108

Certificate No: ES3-3019 Aug 11

CALIBRATION CERTIFICATE

Object ES3DV2 - SN:3019

Calibration procedure(s) QA CAL-01.v8, QA CAL-12.v7, QA CAL-23.v4, QA CAL-25.v4

Calibration procedure for dosimetric E-field probes

Calibration date: August 25, 2011

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 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID:	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	31-Mar-11 (No. 217-01372)	Apr-12
Power sensor E4412A	MY41498087	31-Mar-11 (No. 217-01372)	Apr-12
Reference 3 dB Attenuator	SN: S5054 (3c)	29-Mar-11 (No. 217-01369)	Apr-12
Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-11 (No. 217-01367)	Apr-12
Reference 30 dB Attenuator	SN: S5129 (30b)	29-Mar-11 (No. 217-01370)	Apr-12
Reference Probe ES3DV2	SN: 3013	29-Dec-10 (No. ES3-3013_Dec10)	Dec-11
DAE4	SN: 654	3-May-11 (No. DAE4-654_May11)	May-12
Secondary Standards	ID.	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Oct-09)	In house check: Oct-11
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-10)	In house check: Oct-11

Calibrated by:

Claudio Leubler

Laboratory Technician

Approved by:

Katja Pokovic

Technical Manager

Issued: August 27, 2011

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

Certificate No: ES3-3019_Aug11

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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
Swiss Calibration Service

Accreditation No.: SCS 108

Accredited by the Swiss Accreditation Service (SAS)

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

Glossary:

TSL tissue simulating liquid
NORMx,y,z sensitivity in free space
ConvF sensitivity in TSL / NORMx,y,z
DCP diode compression point

CF crest factor (1/duty_cycle) of the RF signal A, B, C modulation dependent linearization parameters

Polarization φ rotation around probe axis

Polarization 9 9 rotation around an axis that is in the plane normal to probe axis (at measurement center).

i.e., 9 = 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
- EC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 3 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide).
 NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,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.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal observated letter.
- Ax,y,z; Bx,y,z; Cx,y,z, VRx,y,z: A, B, C are numerical linearization parameters assessed based on the data of
 power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the
 maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 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 NORMx,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.

Certificate No: ES3-3019_Aug11

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ES3DV2 - SN:3019

August 25, 2011

Probe ES3DV2

SN:3019

Manufactured: Calibrated:

December 5, 2002 August 25, 2011

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: ES3-3019_Aug11

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ES3DV2-SN:3019

August 25, 2011

DASY/EASY - Parameters of Probe: ES3DV2 - SN:3019

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) ²) ^A	1.03	1.15	0.96	± 10.1 %
DCP (mV) ⁸	101.8	103.0	105.1	

Modulation Calibration Parameters

UID	Communication System Name	PAR		A dB	B dB	C dB	VR mV	Unc ^b (k=2)
10000	CW	0.00	X	0.00	0.00	1.00	128.3	±3.0 %
			Y	0.00	0.00	1.00	147.1	
			Z	0.00	0.00	1.00	122.4	

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%.

Certificate No: ES3-3019_Aug11

The uncertainties of NormX,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).
 Numerical linearization parameter: uncertainty not required.
 Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

August 25, 2011 ES3DV2-SN:3019

DASY/EASY - Parameters of Probe: ES3DV2 - SN:3019

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^c	Relative Permittivity F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
450	43.5	0.87	6.76	6.76	6.76	0.13	1.20	± 13.4 %
835	41.5	0.90	6,22	6.22	6.22	0.76	1.09	± 12.0 %
900	41.5	0.97	6.07	6.07	6.07	0.63	1.16	± 12.0 %
1810	40.0	1.40	4.93	4.93	4.93	0.41	1.54	± 12.0 %
1900	40.0	1.40	4.87	4.87	4.87	0.45	1.40	± 12.0 %
2450	39.2	1.80	4.12	4.12	4.12	0.44	1.40	± 12.0 %

Frequency validity of \pm 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to \pm 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to \pm 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to \pm 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

ES3DV2-SN:3019 August 25, 2011

DASY/EASY - Parameters of Probe: ES3DV2- SN:3019

Calibration Parameter Determined in Body Tissue Simulating Media

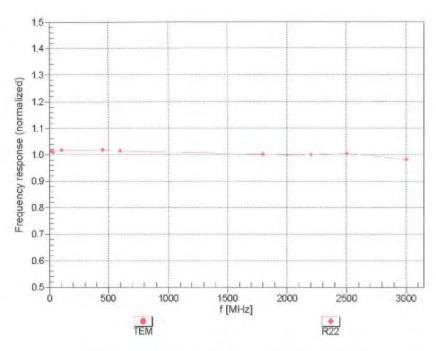
f (MHz) ^c	Relative Permittivity F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
450	56.7	0.94	7.19	7.19	7.19	0.06	1.20	± 13.4 %
835	55.2	0.97	6.19	6.19	6.19	0.76	1.11	± 12.0 %
900	55.0	1.05	6.07	6.07	6.07	0.73	1.13	± 12.0 %
1810	53.3	1.52	4.57	4.57	4.57	0.49	1.57	± 12.0 %
1900	53.3	1.52	4.38	4.38	4.38	0.41	1.81	± 12.0 %
2450	52.7	1.95	3.87	3.87	3.87	0.46	1.30	± 12.0 %

⁶ Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ComvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

⁷ At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ComvF interference in the restriction of the control of the ConvF uncertainty for indicated target tissue parameters.

August 25, 2011 ES3DV2-SN:3019

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

Certificate No: ES3-3019_Aug11

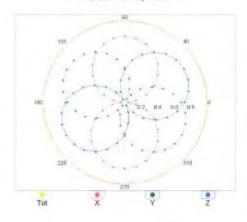
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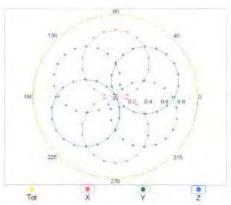
ES3DV2- SN:3019 August 25, 2011

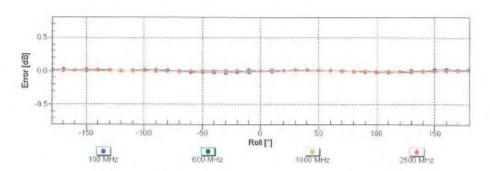
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$



f=1800 MHz,R22







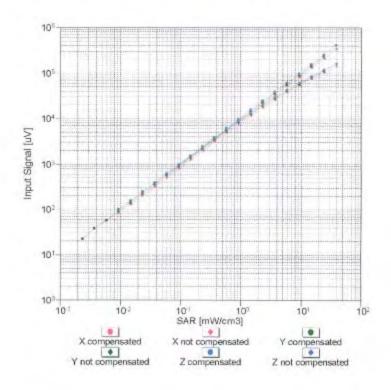
Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

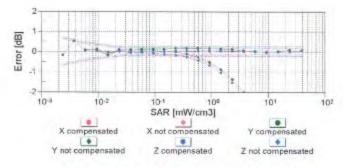
Certificate No: ES3-3019_Aug11

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ES3DV2-SN:3019 August 25, 2011

Dynamic Range f(SAR_{head}) (TEM cell , f = 900 MHz)





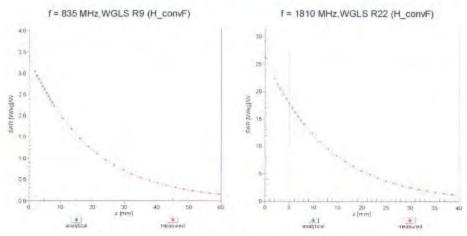
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Certificate No: ES3-3019_Aug11

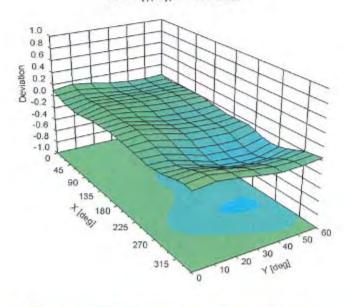
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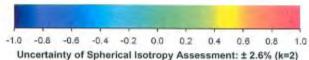
ES3DV2- SN:3019 August 25, 2011

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (φ, θ), f = 900 MHz





Certificate No: ES3-3019_Aug11

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ES3DV2-SN:3019 August 25, 2011

DASY/EASY - Parameters of Probe: ES3DV2 - SN:3019

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	Not applicable
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

Certificate No: ES3-3019_Aug11

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14 APPENDIX C - DIPOLE CALIBRATION CERTIFICATES

NCL CALIBRATION LABORATORIES

Calibration File No: DC-1384 Project Number: BAC-835-dipole-cal-5626

CERTIFICATE OF CALIBRATION

It is certified that the equipment identified below has been calibrated in the NCL CALIBRATION LABORATORIES by qualified personnel following recognized procedures and using transfer standards traceable to NRC/NIST.

> Validation Dipole 835MHz Head & Body

Manufacturer: APREL Laboratories
Part number: ALS-D-835-S-2
Frequency: 835MHz
Serial No: 180-00564

Customer: Bay Area Compliance

Calibrated: 24th October 2011 Released on: 27th October 2011

This Calibration Certificate is Incomplete Unless Adrompanied with the Calibration Results Summary

Released By:

NCL CALIBRATION LABORATORIES

303 Terry Fox Drive, Suite 102 Kanata, Ontario CANADA K2K 3J1 Division of APREL TEL: (613) 435-8300

Division of APREL Inc.

Conditions

Dipole 180-00565 was a recalibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5 °C Temperature of the Tissue: 21 °C +/- 0.5 °C 21 °C +/- 0.5 °C

We the undersigned attest that to the best of our knowledge the calibration of this device has been accurately conducted and that all information contained within this report has been reviewed for accuracy.

Stuart Nicol

C. Teodorian

Primary Measurement Standards

Instrument	Serial Number	Cal due date
Power meter Anritsu MA2408A	90025437	Nov.4, 2011
Power Sensor Anritsu MA2481D	103555	Nov 4, 2011
Attenuator HP 8495A (70dB)	1944A10711	Sept. 14, 2012
Network Analyzer Agilent E5071C	1334746J	Aug. 8. 2012

Secondary Measurement Standards

Signal Generator Agilent E4438C -506 MY55182336 June 7, 2012

Division of APREL Inc.

Calibration Results Summary

The following results relate the Calibrated Dipole and should be used as a quick reference for the user.

Mechanical Dimensions

Length: 161.0 mm Height: 89.8 mm

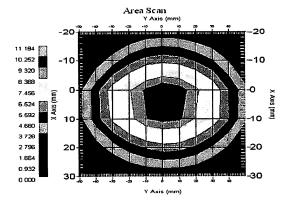
Electrical Specification 835MHz

Tissue Type	Return Loss:	Impedance:	SWR:
Head	-32.132	48.897	1.0621U
Body	-24.800	53.311	1.1206U

System Validation Results

-	Tissue	Frequency	1 Gram	10 Gram	Peak
	Head	835 MHz	9.590	6.003	15.013
	Body	835 MHz	9.981	6.006	15.013

835MHz



This page has been reviewed for content and attested to by signature within this document.

Division of APREL Inc.

Introduction

This Calibration Report has been produced in line with the SSI Dipole Calibration Procedure SSI-TP-018-ALSAS. The results contained within this report are for Validation Dipole 180-00565. The calibration routine consisted of a three-step process. Step 1 was a mechanical verification of the dipole to ensure that it meets the mechanical specifications. Step 2 was an Electrical Calibration for the Validation Dipole, where the SWR, Impedance, and the Return loss were assessed. Step 3 involved a System Validation using the ALSAS-10U, along with APREL E-030 130 MHz to 26 GHz E-Field Probe Serial Number 215.

References

- IEEE Standard 1528 (2003) including Amendment 1 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
- EN 62209-1 (2006) Human Exposure to RF Fields from hand-held and body-mounted wireless communication devices - Human models. instrumentation, and procedures-Part 1: Procedure to measure the Specific Absorption Rate (SAR) for hand-held mobile wireless devices
 - IEC 62209-2 Ed. 1.0 (2010-03) Human exposure to RF fields from hand-held and body-mounted wireless devices - Human models, instrumentation, and procedures - Part 2: specific absorption rate (SAR) for wireless communication devices (30 MHz - 6 GHz)
 TP-D01-032-E020-V2 E-Field probe calibration procedure
- D22-012-Tissue dielectric tissue calibration procedure
- D28-002-Dipole procedure for validation of SAR system using a dipole
- IEEE 1309 Draft Standard for Calibration of Electromagnetic Field Sensors and Probes, Excluding Antennas, from 9kHz to 40GHz

Conditions

Dipole 180-00564 was a recalibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5°C 20 °C +/- 0.5°C Temperature of the Tissue:

Dipole Calibration uncertainty

The calibration uncertainty for the dipole is made up of various parameters presented below.

Mechanical 1% **Positioning Error** 1.22% **Electrical** 1.7% 2.2% Tissue Dipole Validation 2.2%

TOTAL 8.32% (16.64% K=2)

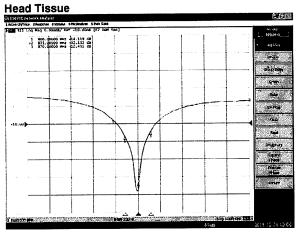
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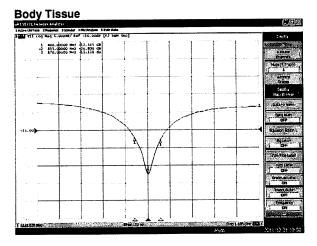
Electrical Calibration

Electrical Specification 835MHz

Tissue Type	Measured Epsilon	Measured Sigma
Head	41.09	0.89
Body	53.15	0.95

Forward Reflection



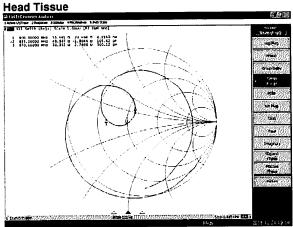


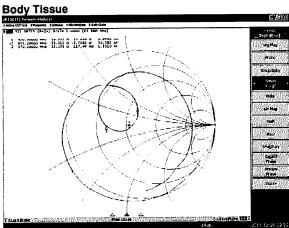
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Electrical Specification 835MHz Impedance

Tissue Type	Measured Epsilon	Measured Sigma
Head	41.09	0.89
Body	53.15	0.95





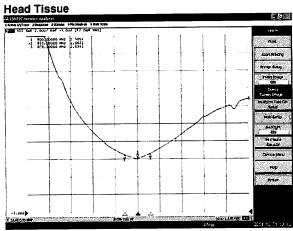
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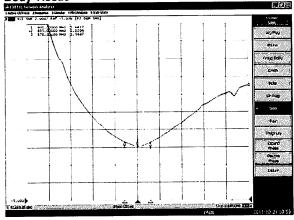
Electrical Specification 835MHz Standing Wave Ratio

Tissue Type	Measured Epsilon	Measured Sigma
Head	41.09	0.89
Body	53.15	0.95





Body Tissue



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Test Equipment

The test equipment used during Probe Calibration, manufacturer, model number and, current calibration status are listed and located on the main APREL server R:\NCL\Calibration Equipment\Instrument List May 2011.

8

NCL CALIBRATION LABORATORIES

Calibration File No: DC-1385 Project Number: BAC-1900-dipole-cal-5627

CERTIFICATE OF CALIBRATION

It is certified that the equipment identified below has been calibrated in the NCL CALIBRATION LABORATORIES by qualified personnel following recognized procedures and using transfer standards traceable to NRC/NIST.

> Validation Dipole 1900MHz Head & Body

Manufacturer: APREL Laboratories
Part number: ALS-D-1900-S-2
Frequency: 1900MHz
Serial No: 210-00715

Customer:Bay Area Compliance

Calibrated: 24th October 2011 Released on: 27th October 2011

This Calibration Certificate is Incomplete Unless Adrompanied with the Calibration Results Summary

Released By:

NCL CALIBRATION LABORATORIES

103 Terry Fox Drive, Suite 102 Kanata, Ontario Division of APREL TEL: (613) 435-8300 FAX: (613) 435-8306

Division of APREL Inc.

Conditions

Dipole 210-00715 was a recalibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5 °C Temperature of the Tissue: 21 °C +/- 0.5 °C 21 °C +/- 0.5 °C

We the undersigned attest that to the best of our knowledge the calibration of this device has been accurately conducted and that all information contained within this report has been reviewed for accuracy.

Stuart Nicol

C. Teodorian

Primary Measurement Standards

Instrument	Serial Number	Cal due date
Power meter Anritsu MA2408A	190025437	Nov.4, 2011
Power Sensor Anritsu MA2481D	103555	Nov 4, 2011
Attenuator HP 8495A (70dB)	1944A10711	Sept. 14, 2012
Network Analyzer Agilent E5071C	1334746J	Aug. 8, 2012

Secondary Measurement Standards

Signal Generator Agilent E4438C -506 MY55182336 June 7, 2012

Division of APREL Inc.

Calibration Results Summary

The following results relate the Calibrated Dipole and should be used as a quick reference for the user.

Mechanical Dimensions

Length: 67.1 mm Height: 38.9 mm

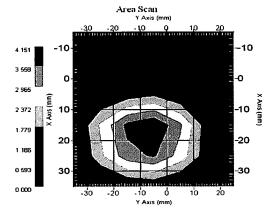
Electrical Specification 1900MHz

Tissue Type	Return Loss:	Impedance:	SWR:
Head	-28.634	46.965	1.0813U
Body	-23.129	47.664	1.1520U

System Validation Results

Tissue	Frequency	1 Gram	10 Gram	Peak
Head	1900 MHz	39.378	19.668	77.268
Body	1900 MHz	39.654	19.668	77.268

1900MHz



This page has been reviewed for content and attested to by signature within this document.

Division of APREL Inc.

Introduction

This Calibration Report has been produced in line with the SSI Dipole Calibration Procedure SSI-TP-018-ALSAS. The results contained within this report are for Validation Dipole 210-00716. The calibration routine consisted of a three-step process. Step 1 was a mechanical verification of the dipole to ensure that it meets the mechanical specifications. Step 2 was an Electrical Calibration for the Validation Dipole, where the SWR, Impedance, and the Return loss were assessed. Step 3 involved a System Validation using the ALSAS-10U, along with APREL E-030 130 MHz to 26 GHz E-Field Probe Serial Number 215.

References

- o IEEE Standard 1528 (2003) including Amendment 1 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
- EN 62209-1 (2006)

Human Exposure to RF Fields from hand-held and body-mounted wireless communication devices - Human models. instrumentation, and procedures-Part 1: Procedure to measure the Specific Absorption Rate (SAR) for hand-held mobile wireless devices

IEC 62209-2 Ed. 1.0 (2010-03)

Human exposure to RF fields from hand-held and body-mounted wireless devices - Human models, instrumentation, and procedures - Part 2: specific absorption rate (SAR) for wireless communication devices (30 MHz - 6 GHz)

- TP-D01-032-E020-V2 E-Field probe calibration procedure
- D22-012-Tissue dielectric tissue calibration procedure
 D28-002-Dipole procedure for validation of SAR system using a dipole
- IEEE 1309 Draft Standard for Calibration of Electromagnetic Field Sensors and Probes, Excluding Antennas, from 9kHz to 40GHz

Conditions

Dipole 210-00715 was a recalibration.

22 °C +/- 0.5°C Ambient Temperature of the Laboratory: 20 °C +/- 0.5°C Temperature of the Tissue:

Dipole Calibration uncertainty

The calibration uncertainty for the dipole is made up of various parameters presented below.

Mechanical 1% 1.22% **Positioning Error Electrical** 1.7% 2.2% **Tissue** 2.2% **Dipole Validation**

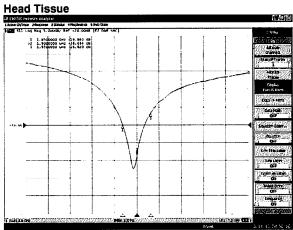
8.32% (16.64% K=2) **TOTAL**

Division of APREL Inc.

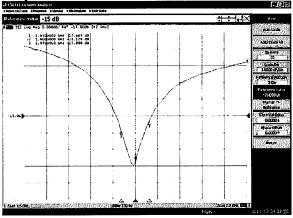
Electrical Calibration

Electrical Specification 1900MHz Forward Reflection

Tissue Type	Measured Epsilon	Measured Sigma
Head	38.12	1.41
Body	51.52	1.57





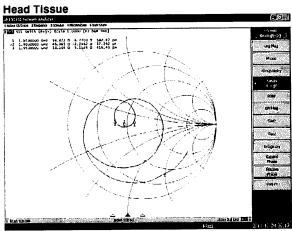


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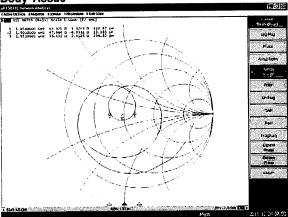
Division of APREL Inc.

Electrical Specification 1900MHz Impedance

Tissue Type	Measured Epsilon	Measured Sigma	
Head	38.12	1.41	
Body	51.52	1.57	



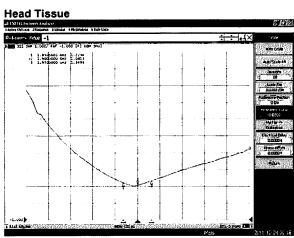
Body Tissue

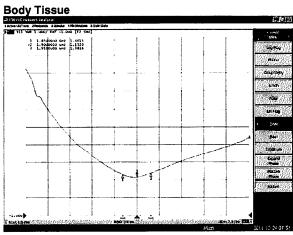


Division of APREL Inc.

Electrical Specification 1900MHz Standing Wave Ratio

Tissue Type	Measured Epsilon	Measured Sigma
Head	38.12	1.41
Body	51.52	1.57





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Test Equipment

The test equipment used during Probe Calibration, manufacturer, model number and, current calibration status are listed and located on the main APREL server R:\NCL\Calibration Equipment\Instrument List May 2011.

NCL CALIBRATION LABORATORIES

Calibration File No: DC-1285
Project Number: BACL-dipole-cal-5612

CERTIFICATE OF CALIBRATION

It is certified that the equipment identified below has been calibrated in the NCL CALIBRATION LABORATORIES by qualified personnel following recognized procedures and using transfer standards traceable to NRC/NIST.

BACL Validation Dipole (Head & Body)

Manufacturer: APREL Laboratories Part number: D-2450-S-1 Frequency: 2450 MHz Serial No: BCL-141

Customer: Bay Area Compliance Laboratory

Calibrated: 25th July 2011 Released on: 27th July 2011

This Calibration Certificate is Incomplete Unless Accompanied with the Calibration Results Summary

Released By:

NCL CALIBRATION LABORATORIES

Suite 102, 303 Terry Fox Dr. Kanata, ONTARIO CANADA K2K 3J1 Division of APREL Lab. TEL: (613) 435-8300 FAX: (613) 432-8306

Division of APREL Laboratories.

Conditions

Dipole BCL-141 was received from customer in good condition for re-calibration, SMA connector required cleaning prior to calibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5°C Temperature of the Tissue: 21 °C +/- 0.5°C

We the undersigned attest that to the best of our knowledge the calibration of this device has been accurately conducted and that all information contained within this report has been reviewed for accuracy.

Stuart Nicol

C. Teodorian

Primary Measurement Standards Instrument

Power meter Anritsu MA2408A Power Sensor Anritsu MA2481D Attenuator HP 8495A (70dB) 1 Network Analyzer Anritsu MT8801C Secondary Measurement Standards

Signal Generator Agilent E4438C

Serial Number 245025437 103555

944A10711 MB11855

-506 MY55182336

Cal due date

Nov.4, 2011 Nov 4, 2011 Sept. 14, 2011 Feb. 8, 2012

June 7, 2012

Division of APREL Laboratories.

Calibration Results Summary

The following results relate the Calibrated Dipole and should be used as a quick reference for the user.

Mechanical Dimensions

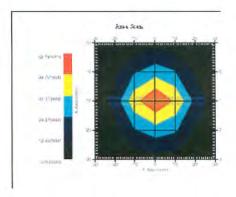
Length: 51.5 mm **Height:** 30.4 mm

Electrical Specification 2450MHz

Tissue Type	Return Loss:	SWR:	Impedance:
Head	-29.565	1.076u	52.887
Body	-25.834	1.111u	55.110

System Validation Results

Tissue	Frequency	1 Gram	10 Gram	Peak
Head	2450MHz	54.075	24.19	113.98
Body	2450MHz	53.115	24.011	109.960



This page has been reviewed for content and attested to by signature within this document.

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Introduction

This Calibration Report has been produced in line with the SSI Dipole Calibration Procedure SSI-TP-018-ALSAS. The results contained within this report are for Validation Dipole BCL-141. The calibration routine consisted of a three-step process. Step 1 was a mechanical verification of the dipole to ensure that it meets the mechanical specifications. Step 2 was an Electrical Calibration for the Validation Dipole, where the SWR, Impedance, and the Return loss were assessed. Step 3 involved a System Validation using the ALSAS-10U, along with APREL E-020 130 MHz to 26 GHz E-Field Probe Serial Number 212.

References

SSI-TP-018-ALSAS Dipole Calibration Procedure SSI-TP-016 Tissue Calibration Procedure

IEEE 1528 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques"

Conditions

Dipole BCL-141 was received from customer in good condition for re-calibration, SMA connector required cleaning prior to calibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5 °C Temperature of the Tissue: 20 °C +/- 0.5 °C

Dipole Calibration uncertainty

The calibration uncertainty for the dipole is made up of various parameters presented below.

Mechanical1%Positioning Error1.22%Electrical1.7%Tissue2.2%Dipole Validation2.2%

TOTAL 8.32% (16.64% K=2)

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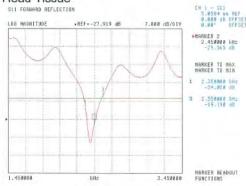
Tissue Type	Measured Epsilon	Measured Sigma	
Head	38.06	1.86	
Body	50.22	2.03	

Electrical Calibration

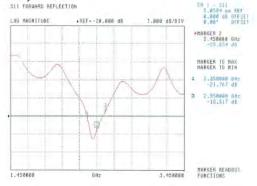
The Following Graphs are the results as displayed on the Vector Network Analyzer.

S11 Parameter Return Loss





Body Tissue



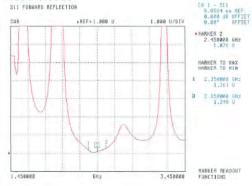
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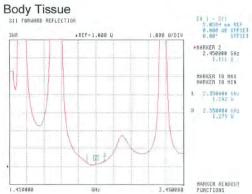
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Tissue Type	Measured Epsilon	Measured Sigma	
Head	38.06	1.86	
Body	50.22	2.03	

SWR

Head Tissue





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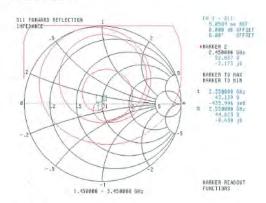
6

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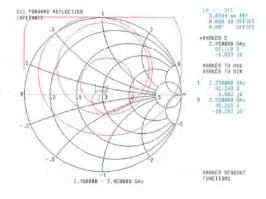
Tissue Type	Measured Epsilon	Measured Sigma	
Head	38.06	1.86	
Body	50.22	2.03	

Smith Chart Dipole Impedance

Head Tissue



Body Tissue



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Test Equipment

The test equipment used during Probe Calibration, manufacturer, model number and, current calibration status are listed and located on the main APREL server R:\NCL\Calibration Equipment\Instrument List

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15 APPENDIX D - TEST SYSTEM VERIFICATIONS SCANS

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

System Performance Test (835 MHz, Body Tissue)

DUT: Dipole 835 MHz; Type: ALS-D-835-S-2; Serial: 180-00564

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; $\sigma = 0.96$ mho/m; $\varepsilon_r = 54.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

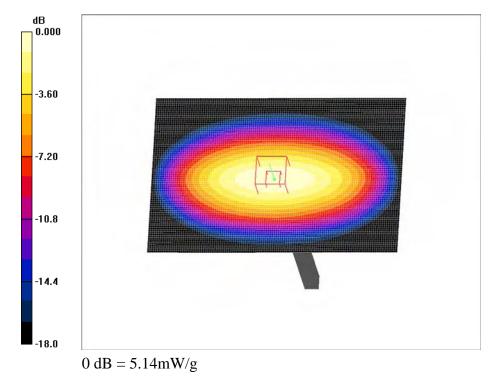
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Post processing SW: SEMCAD, V1.8 Build 186

d =15 mm, Pin = 0.5 W/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 4.99 mW/g

d =15 mm, Pin = 0.5 W/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 72.6 V/m; Power Drift = -0.131 dB Peak SAR (extrapolated) = 6.85 W/kg

SAR (1 g) = 4.86 mW/g; SAR (10 g) = 3.04 mW/gMaximum value of SAR (measured) = 5.14 mW/g



835 MHz Body System Validation

Test Laboratory: Bay Area Compliance Lab Corp. (BACL) System Performance Test (835 MHz, Head Tissue)

DUT: Dipole 835 MHz; Type: ALS-D-835-S-2; Serial: 180-00564

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; $\sigma = 0.89$ mho/m; $\varepsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

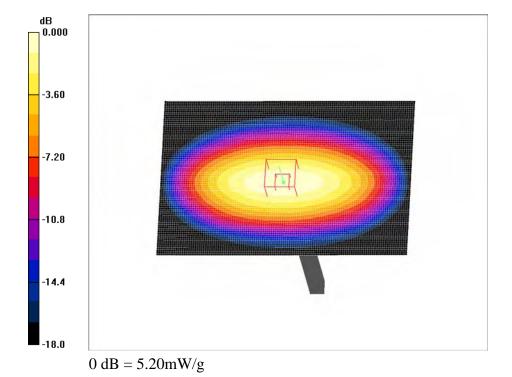
• Probe: ES3DV2 - SN3019; ConvF(6.22, 6.22, 6.22); Calibrated: 8/25/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 3/16/2012
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.7 Build 80; Post processing SW: SEMCAD, V1.8 Build 186

d =15 mm, Pin = 0.5 W/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 5.03 mW/g

d =15 mm, Pin = 0.5 W/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 74.1V/m; Power Drift = -0.117 dB Peak SAR (extrapolated) = 7.12 W/kg

SAR (1 g) = 4.83 mW/g; SAR (10 g) = 3.18 mW/gMaximum value of SAR (measured) = 5.20 mW/g



835 MHz Head System Validation

Test Laboratory: Bay Area Compliance Lab Corp. (BACL) System Performance Test (1900 MHz, Body Tissue)

DUT: Dipole 1900 MHz; Type: ALS-D-1900-S-2; Serial: 210-00715

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; $\sigma = 1.5 \text{ mho/m}$; $\varepsilon_r = 52.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

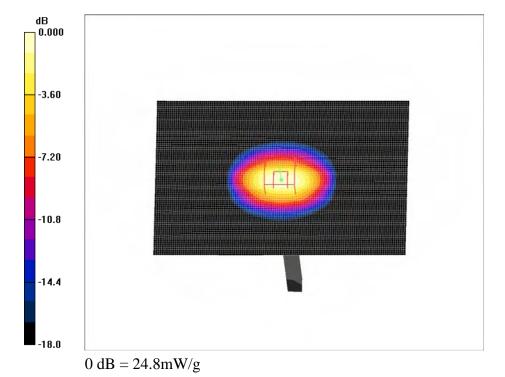
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Post processing SW: SEMCAD, V1.8 Build 186

d =10 mm, Pin = 0.5 W/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 23.4 mW/g

d =10 mm, Pin = 0.5 W/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 130.5 V/m; Power Drift = -0.252 dB Peak SAR (extrapolated) = 47.5 W/kg

SAR (1 g) = 20.3 mW/g; **SAR** (10 g) = 9.77 mW/g Maximum value of SAR (measured) = 24.8 mW/g



1900 MHz Body System Validation

Test Laboratory: Bay Area Compliance Lab Corp. (BACL) System Performance Test (1900 MHz, Head Tissue)

DUT: Dipole 1900 MHz; Type: ALS-D-1900-S-2; Serial: 210-00715

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; $\sigma = 1.38$ mho/m; $\varepsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

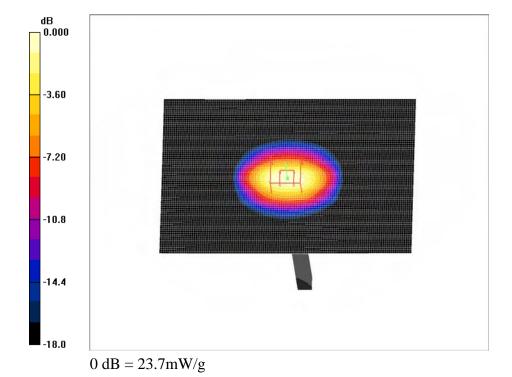
• Probe: ES3DV2 - SN3019; ConvF(4.87, 4.87, 4.87); Calibrated: 8/25/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 3/16/2012
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.7 Build 80; Post processing SW: SEMCAD, V1.8 Build 186

d =10 mm, Pin = 0.5 W/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 22.7 mW/g

d =10 mm, Pin = 0.5 W/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 129.7 V/m; Power Drift = -0.253 dB Peak SAR (extrapolated) = 46.5 W/kg

SAR (1 g) = 20.1 mW/g; SAR (10 g) = 9.68 mW/g Maximum value of SAR (measured) = 23.7 mW/g



1900 MHz Head System Validation

Test Laboratory: Bay Area Compliance Lab Corp. (BACL) System Performance Test (2450 MHz, Body Tissue)

DUT: Dipole 2450 MHz; Type: D-2450-S-1; Serial: SN: BCL-141

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2450 MHz; $\sigma = 2.02 \text{ mho/m}$; $\varepsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

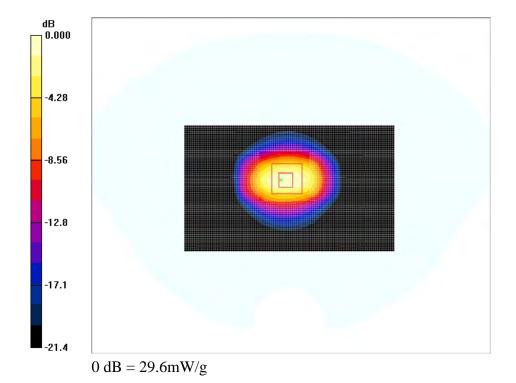
• Probe: ES3DV2 - SN3019; ConvF(3.87, 3.87, 3.87); Calibrated: 8/25/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 3/16/2012
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.7 Build 80; Post processing SW: SEMCAD, V1.8 Build 186

d =10 mm, Pin = 0.5 W/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 29.9 mW/g

d =10 mm, Pin = 0.5 W/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 122.9 V/m; Power Drift = -0.142 dB Peak SAR (extrapolated) = 71.8 W/kg

SAR (1 g) = 27.1 mW/g; **SAR** (10 g) = 12.3 mW/g Maximum value of SAR (measured) = 29.6 mW/g



2450 MHz Body System Validation

16 APPENDIX E – EUT SCAN RESULTS

Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 824.2 MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 55.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Post processing SW: SEMCAD, V1.8 Build 186

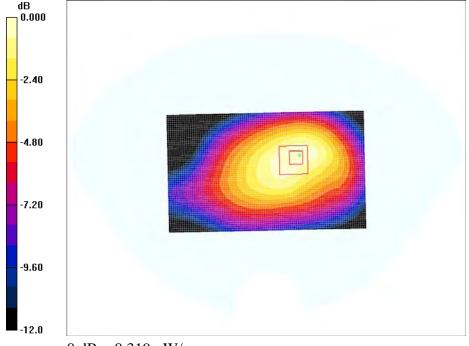
EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.319 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.8 V/m; Power Drift = 0.025 dB Peak SAR (extrapolated) = 0.456 W/kg

SAR (1 g) = 0.296 mW/g; SAR (10 g) = 0.197 mW/g

Maximum value of SAR (measured) = 0.319 mW/g



0 dB = 0.319 mW/g

Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: f = 836.87 MHz; $\sigma = 0.927$ mho/m; $\varepsilon_r = 55.0$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

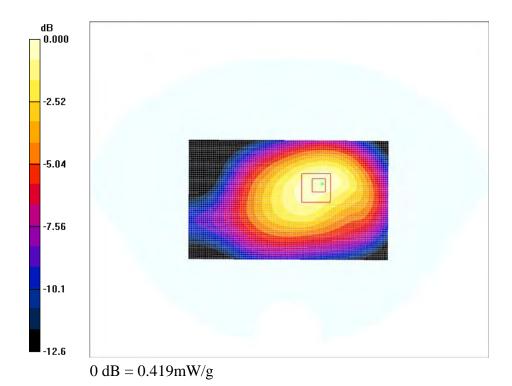
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.416 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.5 V/m; Power Drift = 0.019 dB Peak SAR (extrapolated) = 0.603 W/kg

SAR (1 g) = 0.388 mW/g; SAR (10 g) = 0.255 mW/gMaximum value of SAR (measured) = 0.419 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 848.8 MHz; $\sigma = 0.94$ mho/m; $\varepsilon_r = 54.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456: Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

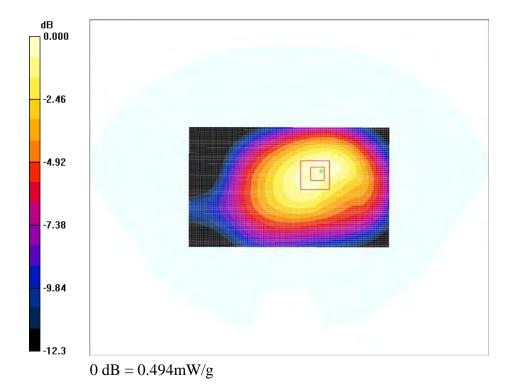
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.495 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.6 V/m; Power Drift = -0.206 dB Peak SAR (extrapolated) = 0.704 W/kg

SAR (1 g) = 0.460 mW/g; SAR (10 g) = 0.303 mW/gMaximum value of SAR (measured) = 0.494 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) **EUT 1.0cm Back Side to the Flat Phantom (Low Channel)**

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: f = 824.2 MHz; $\sigma = 0.91 \text{ mho/m}$; $\varepsilon_r = 55.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

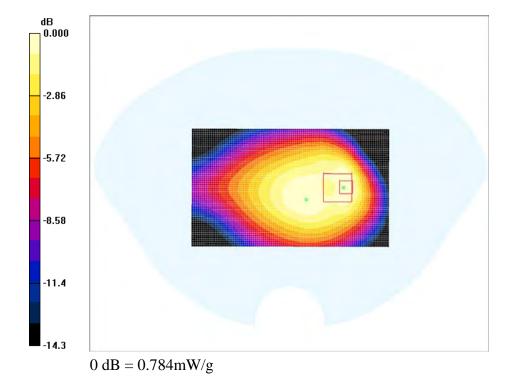
EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.858 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.6 V/m; Power Drift = 0.130 dBPeak SAR (extrapolated) = 1.28 W/kg

SAR (1 g) = 0.723 mW/g; SAR (10 g) = 0.440 mW/g

Maximum value of SAR (measured) = 0.784 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Back Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: f = 836.87 MHz; $\sigma = 0.927 \text{ mho/m}$; $\varepsilon_r = 55.0$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

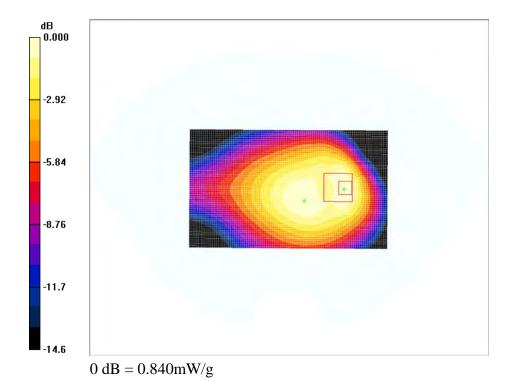
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.930 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 29.0 V/m; Power Drift = -0.512 dB Peak SAR (extrapolated) = 1.36 W/kg

SAR (1 g) = 0.764 mW/g; SAR (10 g) = 0.454 mW/gMaximum value of SAR (measured) = 0.840 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Back Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 848.8 MHz; $\sigma = 0.94$ mho/m; $\varepsilon_r = 54.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456: Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

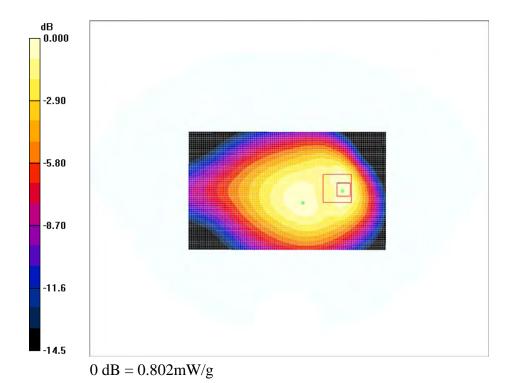
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.862 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.5 V/m; Power Drift = 0.103 dB Peak SAR (extrapolated) = 1.30 W/kg

SAR (1 g) = 0.722 mW/g; SAR (10 g) = 0.423 mW/gMaximum value of SAR (measured) = 0.802 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) Right Head Tilt (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³ Phantom section: Right Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.22, 6.22, 6.22); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

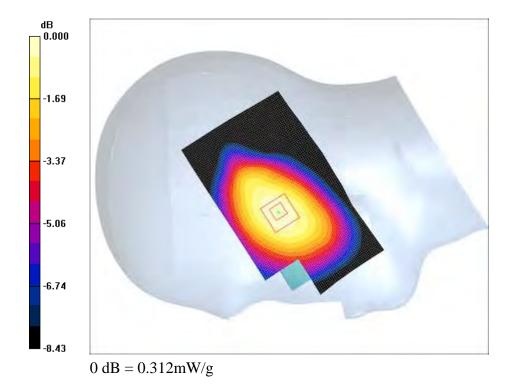
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Right Head Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.309 mW/g

Right Head Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 12.9 V/m; Power Drift = -0.022 dB Peak SAR (extrapolated) = 0.364 W/kg

SAR (1 g) = 0.293 mW/g; SAR (10 g) = 0.226 mW/g Maximum value of SAR (measured) = 0.312 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) Right Head Touch (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³ Phantom section: Right Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.22, 6.22, 6.22); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

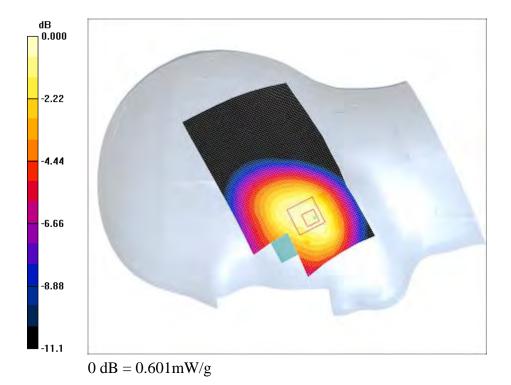
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Right Head Touch/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.603 mW/g

Right Head Touch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 4.44 V/m; Power Drift = -0.059 dB Peak SAR (extrapolated) = 0.819 W/kg

SAR (1 g) = 0.563 mW/g; SAR (10 g) = 0.391 mW/g Maximum value of SAR (measured) = 0.601 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) Left Head Tilt (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.22, 6.22, 6.22); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

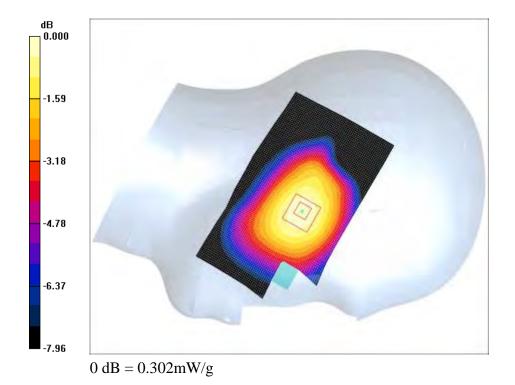
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Left Head Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.294 mW/g

Left Head Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 13.0 V/m; Power Drift = 0.155 dB Peak SAR (extrapolated) = 0.348 W/kg

SAR (1 g) = 0.284 mW/g; SAR (10 g) = 0.219 mW/g Maximum value of SAR (measured) = 0.302 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) Left Head Touch (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3

Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.89 \text{ mho/m}$; $\varepsilon_r = 41.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.22, 6.22, 6.22); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

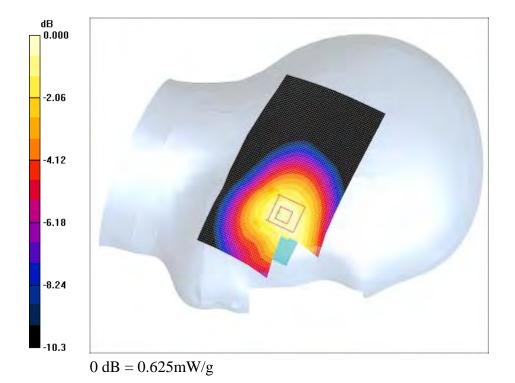
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Left Head Touch/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.621 mW/g

Left Head Touch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.03 V/m; Power Drift = 0.360 dB Peak SAR (extrapolated) = 0.779 W/kg

SAR (1 g) = 0.592 mW/g; SAR (10 g) = 0.435 mW/g Maximum value of SAR (measured) = 0.625 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 826.4 MHz; $\sigma = 0.912$ mho/m; $\varepsilon_r = 55.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

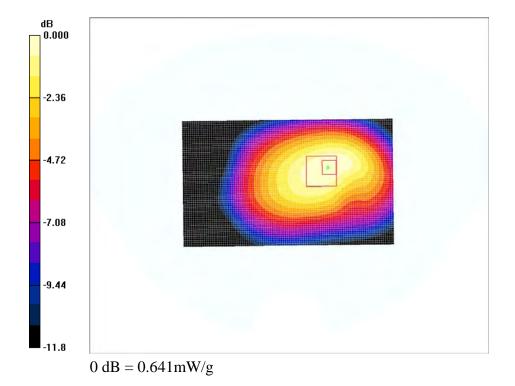
EUT 1.0cm Front Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.640 mW/g

EUT 1.0cm Front Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.4 V/m; Power Drift = 0.023 dB Peak SAR (extrapolated) = 0.908 W/kg

SAR (1 g) = 0.596 mW/g; SAR (10 g) = 0.401 mW/g

Maximum value of SAR (measured) = 0.641 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 836.6 MHz; Duty Cycle: 1:1 Medium parameters used: f=836.87 MHz; $\sigma=0.927$ mho/m; $\epsilon_r=55.0$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

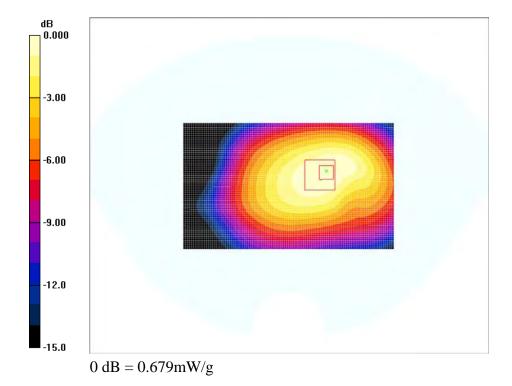
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Front Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.702 mW/g

EUT 1.0cm Front Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.6 V/m; Power Drift = -0.471 dB Peak SAR (extrapolated) = 0.961 W/kg

SAR (1 g) = 0.634 mW/g; SAR (10 g) = 0.429 mW/gMaximum value of SAR (measured) = 0.679 mW/g



Test Laboratory: Bay Area Compliance Lab Corp.(BACL) EUT 1.0cm Front Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 846.6 MHz; $\sigma = 0.938 \text{ mho/m}$; $\varepsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

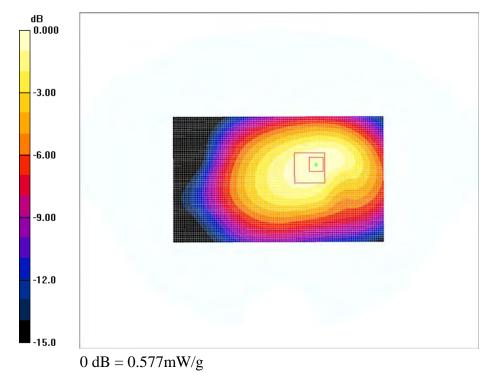
EUT 1.0cm Front Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.585 mW/g

EUT 1.0cm Front Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.5 V/m; Power Drift = 0.059 dB Peak SAR (extrapolated) = 0.818 W/kg

SAR (1 g) = 0.541 mW/g; SAR (10 g) = 0.365 mW/g

Maximum value of SAR (measured) = 0.577 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Back Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 826.4 MHz; $\sigma = 0.912$ mho/m; $\varepsilon_r = 55.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

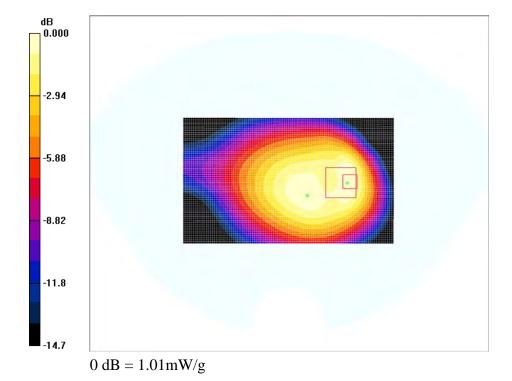
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.13 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 30.1 V/m; Power Drift = 0.044 dB Peak SAR (extrapolated) = 1.70 W/kg

SAR (1 g) = 0.925 mW/g; SAR(10 g) = 0.547 mW/gMaximum value of SAR (measured) = 1.01 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Back Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 836.6 MHz; Duty Cycle: 1:1 Medium parameters used: f = 836.87 MHz; $\sigma = 0.927$ mho/m; $\epsilon_r = 55.0$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456: Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

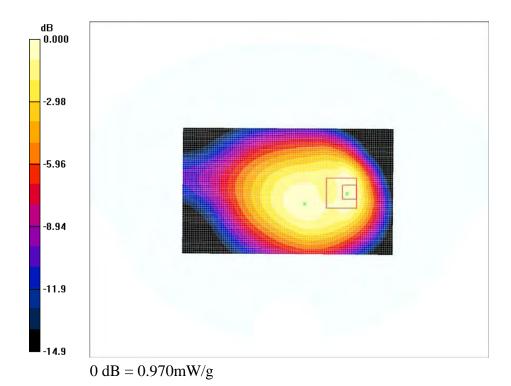
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.08 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 29.7 V/m; Power Drift = 0.001 dB Peak SAR (extrapolated) = 1.62 W/kg

SAR (1 g) = 0.888 mW/g; SAR (10 g) = 0.521 mW/gMaximum value of SAR (measured) = 0.970 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Back Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 846.6 MHz; $\sigma = 0.938 \text{ mho/m}$; $\varepsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

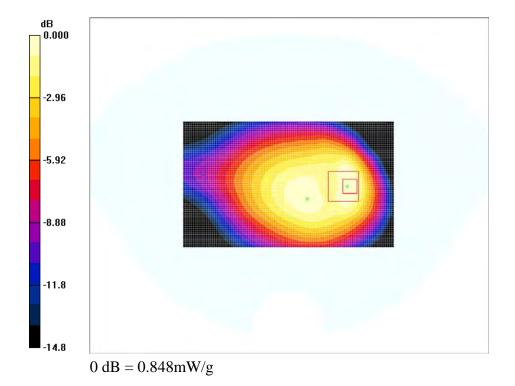
EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.949 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.4 V/m; Power Drift = 0.030 dB Peak SAR (extrapolated) = 1.44 W/kg

SAR (1 g) = 0.779 mW/g; SAR (10 g) = 0.451 mW/g Maximum value of SAR (measured) = 0.848 mW/g

Maximum value of SAR (measured) = 0.848 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Right Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 826.4 MHz; $\sigma = 0.912 \text{ mho/m}$; $\varepsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

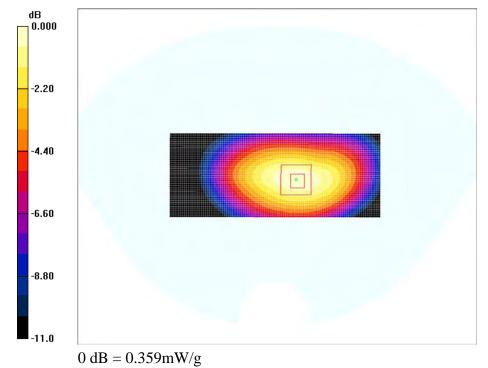
EUT 1.0cm Right Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.351 mW/g

EUT 1.0cm Right Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.7 V/m; Power Drift = 0.001 dB Peak SAR (extrapolated) = 0.494 W/kg

SAR (1 g) = 0.332 mW/g; SAR (10 g) = 0.217 mW/g

Maximum value of SAR (measured) = 0.359 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Right Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 836.6 MHz; Duty Cycle: 1:1 Medium parameters used: f = 836.87 MHz; $\sigma = 0.927$ mho/m; $\epsilon_r = 55.0$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

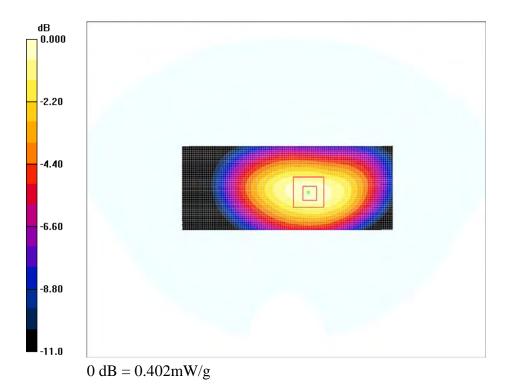
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Right Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.395 mW/g

EUT 1.0cm Right Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.7 V/m; Power Drift = -0.019 dB Peak SAR (extrapolated) = 0.554 W/kg

SAR (1 g) = 0.372 mW/g; SAR (10 g) = 0.243 mW/gMaximum value of SAR (measured) = 0.402 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Right Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 846.6 MHz; $\sigma = 0.938 \text{ mho/m}$; $\varepsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

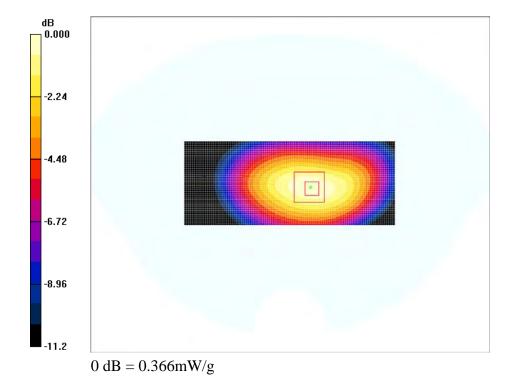
EUT 1.0cm Right Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.358 mW/g

EUT 1.0cm Right Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.5 V/m; Power Drift = 0.033 dB Peak SAR (extrapolated) = 0.506 W/kg

SAR (1 g) = 0.338 mW/g; SAR (10 g) = 0.219 mW/g

Maximum value of SAR (measured) = 0.366 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Left Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 826.4 MHz; $\sigma = 0.912$ mho/m; $\varepsilon_r = 55.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

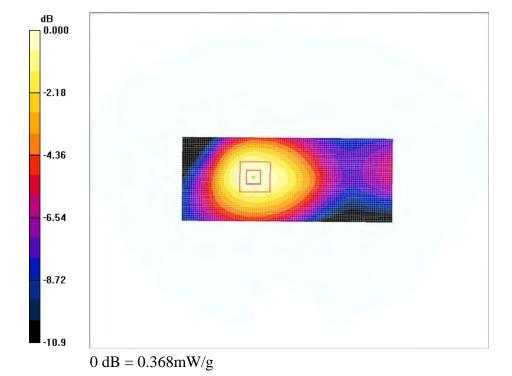
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Left Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.374 mW/g

EUT 1.0cm Left Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.3 V/m; Power Drift = -0.033 dB Peak SAR (extrapolated) = 0.482 W/kg

SAR (1 g) = 0.341 mW/g; SAR (10 g) = 0.230 mW/gMaximum value of SAR (measured) = 0.368 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Left Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 836.6 MHz; Duty Cycle: 1:1 Medium parameters used: f=836.87 MHz; $\sigma=0.927$ mho/m; $\epsilon_r=55.0$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

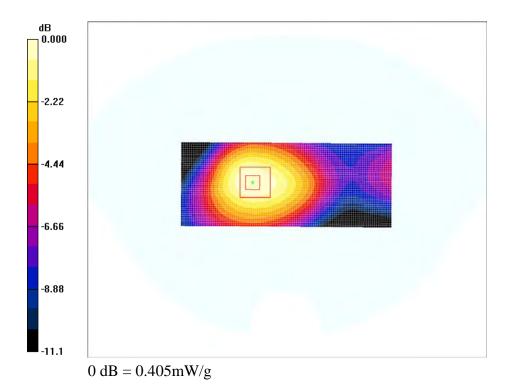
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Left Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.413 mW/g

EUT 1.0cm Left Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.1 V/m; Power Drift = -0.073 dB Peak SAR (extrapolated) = 0.533 W/kg

SAR (1 g) = 0.375 mW/g; SAR (10 g) = 0.253 mW/gMaximum value of SAR (measured) = 0.405 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Left Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 846.6 MHz; $\sigma = 0.938 \text{ mho/m}$; $\varepsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

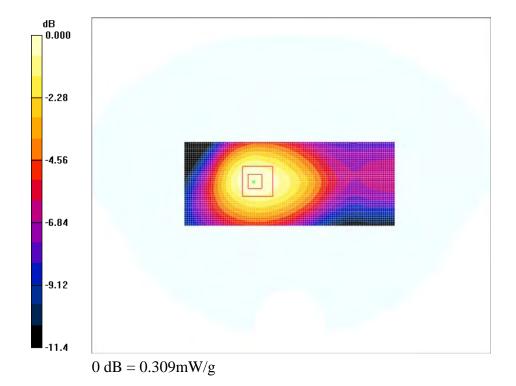
EUT 1.0cm Left Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.318 mW/g

EUT 1.0cm Left Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.7 V/m; Power Drift = 0.001 dB Peak SAR (extrapolated) = 0.409 W/kg

SAR (1 g) = 0.289 mW/g; SAR (10 g) = 0.194 mW/g

Maximum value of SAR (measured) = 0.309 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) **EUT 1.0cm Bottom Side to the Flat Phantom (Low Channel)**

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 826.4 MHz; $\sigma = 0.912 \text{ mho/m}$; $\varepsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

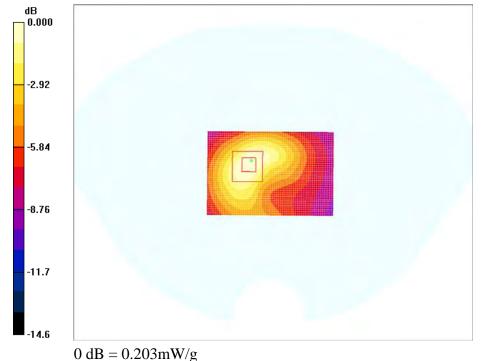
EUT 1.0cm Bottom Side to the Flat Phantom/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.207 mW/g

EUT 1.0cm Bottom Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.93 V/m; Power Drift = 0.588 dBPeak SAR (extrapolated) = 0.327 W/kg

SAR (1 g) = 0.187 mW/g; SAR (10 g) = 0.106 mW/g

Maximum value of SAR (measured) = 0.203 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) **EUT 1.0cm Bottom Side to the Flat Phantom (Middle Channel)**

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 836.6 MHz; Duty Cycle: 1:1 Medium parameters used: f = 836.87 MHz; $\sigma = 0.927$ mho/m; $\varepsilon_r = 55.0$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

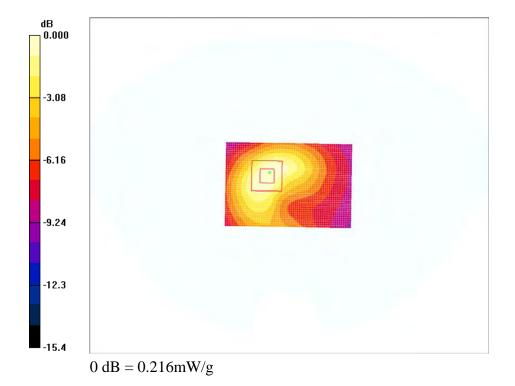
EUT 1.0cm Bottom Side to the Flat Phantom/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.218 mW/g

EUT 1.0cm Bottom Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.1 V/m; Power Drift = 0.493 dBPeak SAR (extrapolated) = 0.348 W/kg

SAR (1 g) = 0.198 mW/g; SAR (10 g) = 0.112 mW/g

Maximum value of SAR (measured) = 0.216 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Bottom Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 846.6 MHz; $\sigma = 0.938 \text{ mho/m}$; $\varepsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456: Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Bottom Side to the Flat Phantom/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.237 mW/g

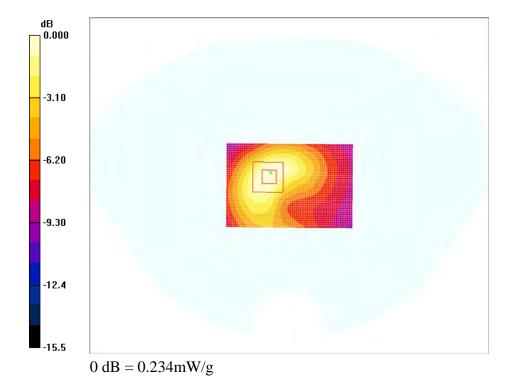
EUT 1.0cm Bottom Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = 0.480 dB

Peak SAR (extrapolated) = 0.374 W/kg

SAR (1 g) = 0.215 mW/g; SAR (10 g) = 0.122 mW/g

Maximum value of SAR (measured) = 0.234 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) Right Head Tilt (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 836.6 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³ Phantom section: Right Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.22, 6.22, 6.22); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

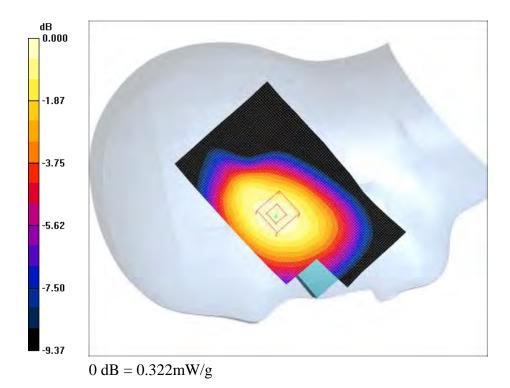
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Right Head Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.318 mW/g

Right Head Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 12.1 V/m; Power Drift = 0.067 dB Peak SAR (extrapolated) = 0.385 W/kg

SAR (1 g) = 0.303 mW/g; SAR (10 g) = 0.224 mW/g Maximum value of SAR (measured) = 0.322 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) Right Head Touch (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 836.6 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³ Phantom section: Right Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.22, 6.22, 6.22); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

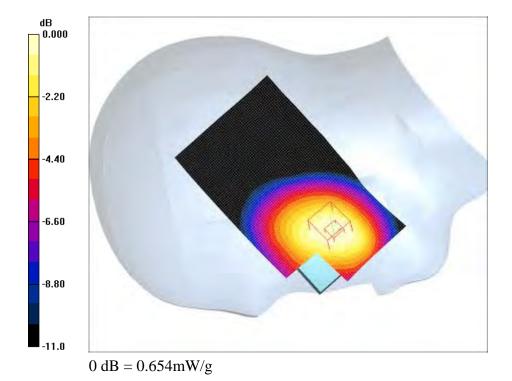
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Right Head Touch/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.662 mW/g

Right Head Touch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 4.59 V/m; Power Drift = -0.051 dB Peak SAR (extrapolated) = 0.897 W/kg

SAR (1 g) = 0.617 mW/g; SAR (10 g) = 0.427 mW/gMaximum value of SAR (measured) = 0.654 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) Left Head Tilt (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 836.6 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³ Phantom section: Left Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.22, 6.22, 6.22); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

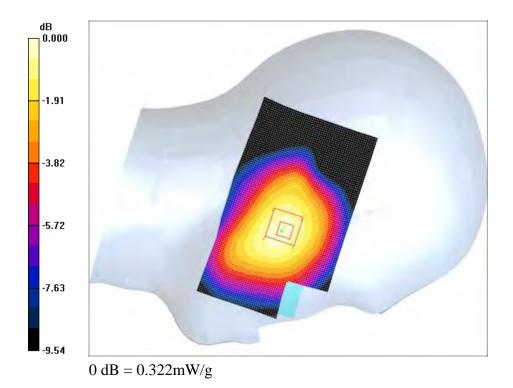
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Left Head Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.302 mW/g

Left Head Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 11.2 V/m; Power Drift = 0.228 dB Peak SAR (extrapolated) = 0.376 W/kg

SAR (1 g) = 0.298 mW/g; SAR (10 g) = 0.220 mW/gMaximum value of SAR (measured) = 0.322 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) Left Head Touch (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-850MHz; Frequency: 836.6 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³ Phantom section: Left Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.22, 6.22, 6.22); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

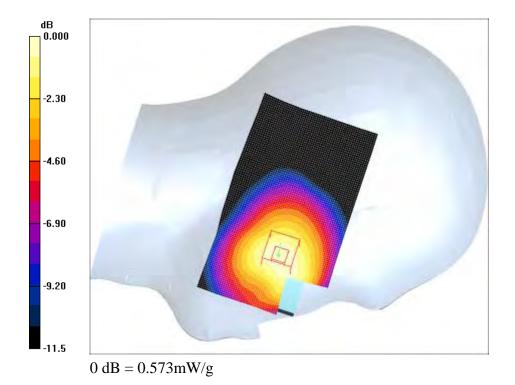
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Left Head Touch/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.578 mW/g

Left Head Touch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.06 V/m; Power Drift = 0.137 dB Peak SAR (extrapolated) = 0.746 W/kg

SAR (1 g) = 0.538 mW/g; SAR (10 g) = 0.378 mW/g Maximum value of SAR (measured) = 0.573 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850 4 Slot; Frequency: 824.2 MHz; Duty Cycle: 1:2 Medium parameters used: f = 824.2 MHz; $\sigma = 0.91$ mho/m; $\varepsilon_r = 55.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

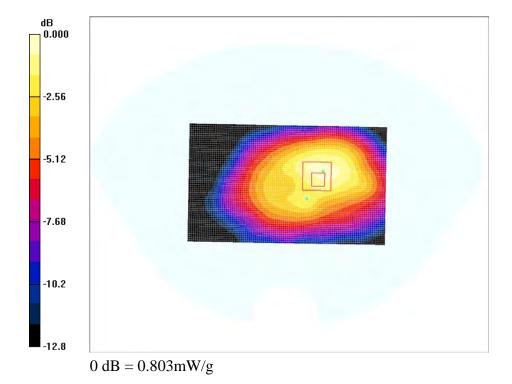
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Front Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.710 mW/g

EUT 1.0cm Front Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.0 V/m; Power Drift = 0.033 dB Peak SAR (extrapolated) = 1.27 W/kg

SAR (1 g) = 0.708 mW/g; SAR (10 g) = 0.452 mW/gMaximum value of SAR (measured) = 0.803 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850 4 Slot; Frequency: 836.6 MHz;Duty Cycle: 1:2 Medium parameters used: f=836.87 MHz; $\sigma=0.927$ mho/m; $\epsilon_r=55.0$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

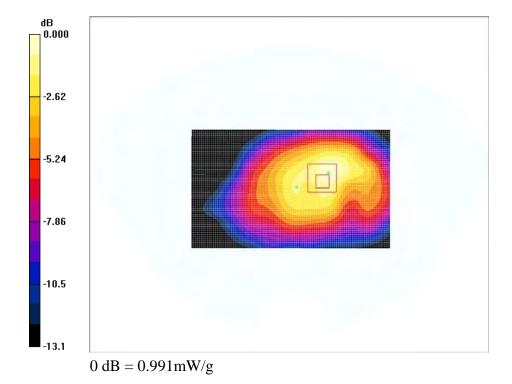
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Front Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.968 mW/g

EUT 1.0cm Front Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.9 V/m; Power Drift = -4.11 dB Peak SAR (extrapolated) = 1.61 W/kg

SAR (1 g) = 0.901 mW/g; SAR (10 g) = 0.568 mW/gMaximum value of SAR (measured) = 0.991 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850 4 Slot; Frequency: 848.8 MHz; Duty Cycle: 1:2 Medium parameters used: f = 848.8 MHz; $\sigma = 0.94$ mho/m; $\varepsilon_r = 54.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

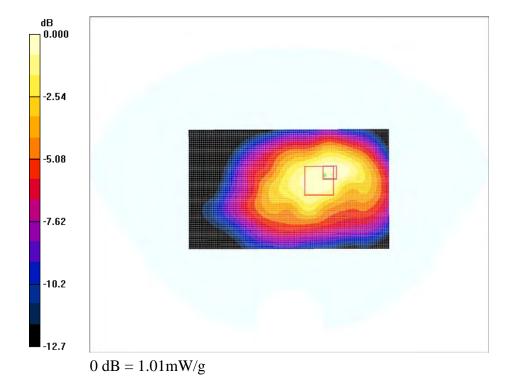
EUT 1.0cm Front Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.04 mW/g

EUT 1.0cm Front Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.2 V/m; Power Drift = -0.104 dB Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.841 mW/g; SAR(10 g) = 0.564 mW/g

Maximum value of SAR (measured) = 1.01 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Back Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850 4 Slot; Frequency: 824.2 MHz; Duty Cycle: 1:2 Medium parameters used: f = 824.2 MHz; $\sigma = 0.91$ mho/m; $\varepsilon_r = 55.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

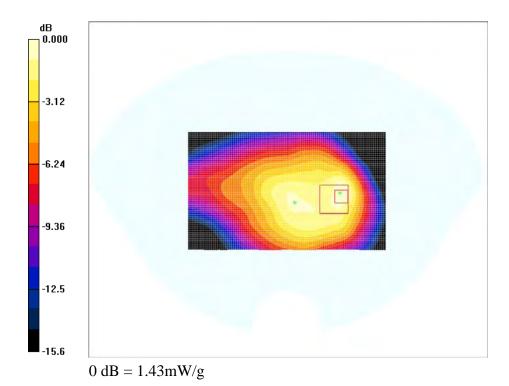
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.52 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.9 V/m; Power Drift = -4.48 dB Peak SAR (extrapolated) = 2.76 W/kg

SAR (1 g) = 1.26 mW/g; SAR (10 g) = 0.743 mW/g Maximum value of SAR (measured) = 1.43 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Back Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850 4 Slot; Frequency: 836.6 MHz;Duty Cycle: 1:2 Medium parameters used: f=836.87 MHz; $\sigma=0.927$ mho/m; $\epsilon_r=55.0$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

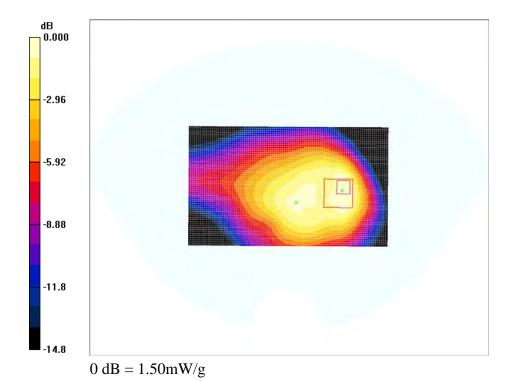
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.66 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.5 V/m; Power Drift = 0.282 dB Peak SAR (extrapolated) = 3.32 W/kg

SAR (1 g) = 1.35 mW/g; SAR (10 g) = 0.771 mW/g Maximum value of SAR (measured) = 1.50 mW/g



Test Laboratory: Bay Area Compliance Lab Corp.(BACL) EUT 1.0cm Back Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850 4 Slot; Frequency: 848.8 MHz; Duty Cycle: 1:2 Medium parameters used: f = 848.8 MHz; $\sigma = 0.94$ mho/m; $\varepsilon_r = 54.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

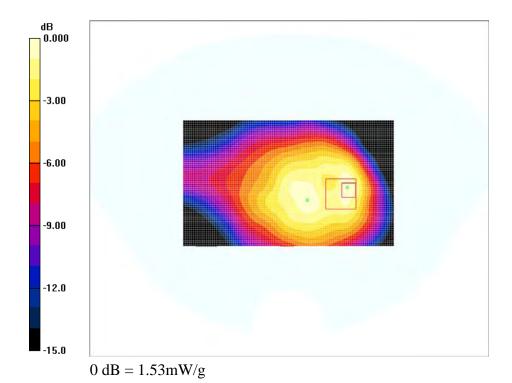
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.56 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.1 V/m; Power Drift = -3.47 dB Peak SAR (extrapolated) = 2.45 W/kg

SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.746 mW/gMaximum value of SAR (measured) = 1.53 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Right Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850 4 Slot; Frequency: 824.2 MHz; Duty Cycle: 1:2 Medium parameters used: f = 824.2 MHz; $\sigma = 0.91$ mho/m; $\varepsilon_r = 55.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456: Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

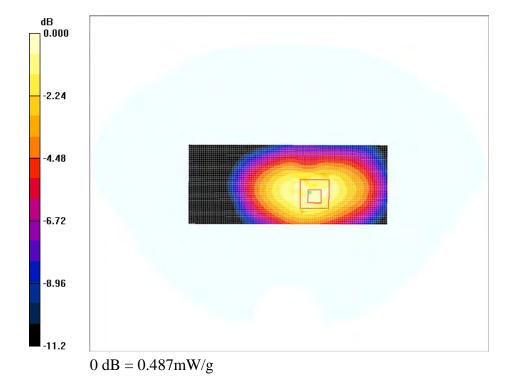
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Right Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.478 mW/g

EUT 1.0cm Right Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.5 V/m; Power Drift = 0.037 dB Peak SAR (extrapolated) = 1.11 W/kg

SAR (1 g) = 0.428 mW/g; SAR (10 g) = 0.277 mW/gMaximum value of SAR (measured) = 0.487 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Right Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850 4 Slot; Frequency: 836.6 MHz; Duty Cycle: 1:2 Medium parameters used: f = 836.87 MHz; $\sigma = 0.927$ mho/m; $\epsilon_r = 55.0$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

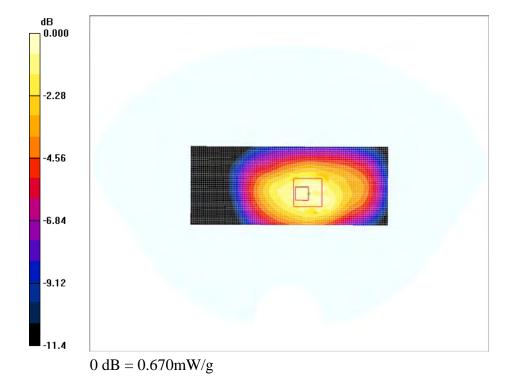
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Right Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.675 mW/g

EUT 1.0cm Right Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.7 V/m; Power Drift = 0.009 dB Peak SAR (extrapolated) = 1.46 W/kg

SAR (1 g) = 0.632 mW/g; SAR (10 g) = 0.400 mW/gMaximum value of SAR (measured) = 0.670 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Right Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850 4 Slot; Frequency: 848.8 MHz; Duty Cycle: 1:2 Medium parameters used: f = 848.8 MHz; $\sigma = 0.94$ mho/m; $\varepsilon_r = 54.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456: Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

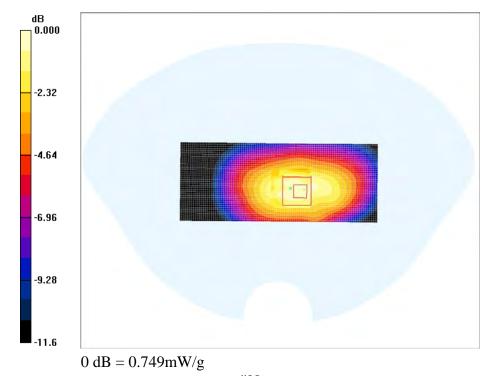
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Right Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.716 mW/g

EUT 1.0cm Right Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.3 V/m; Power Drift = 2.14 dB Peak SAR (extrapolated) = 0.991 W/kg

SAR (1 g) = 0.680 mW/g; SAR (10 g) = 0.436 mW/gMaximum value of SAR (measured) = 0.749 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Left Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850 4 Slot; Frequency: 824.2 MHz; Duty Cycle: 1:2 Medium parameters used: f = 824.2 MHz; $\sigma = 0.91$ mho/m; $\varepsilon_r = 55.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

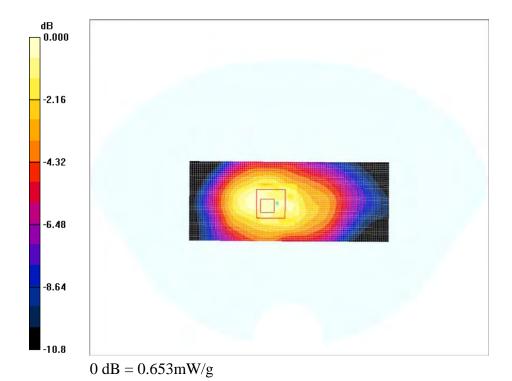
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Left Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.647 mW/g

EUT 1.0cm Left Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.2 V/m; Power Drift = -0.217 dB Peak SAR (extrapolated) = 1.12 W/kg

SAR (1 g) = 0.612 mW/g; SAR (10 g) = 0.399 mW/gMaximum value of SAR (measured) = 0.653 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Left Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850 4 Slot; Frequency: 836.6 MHz; Duty Cycle: 1:2 Medium parameters used: f = 836.87 MHz; $\sigma = 0.927$ mho/m; $\varepsilon_r = 55.0$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

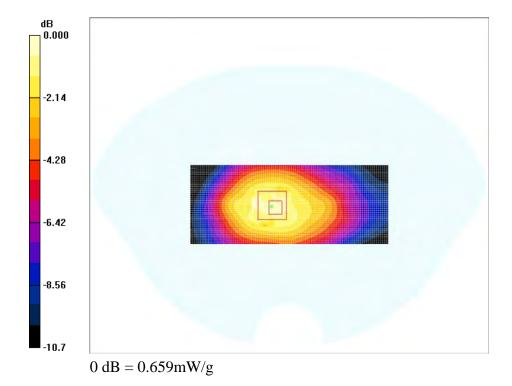
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Left Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.606 mW/g

EUT 1.0cm Left Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.8 V/m; Power Drift = 0.145 dB Peak SAR (extrapolated) = 1.16 W/kg

SAR (1 g) = 0.603 mW/g; SAR (10 g) = 0.400 mW/gMaximum value of SAR (measured) = 0.659 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Left Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850 4 Slot; Frequency: 848.8 MHz; Duty Cycle: 1:2 Medium parameters used: f = 848.8 MHz; $\sigma = 0.94$ mho/m; $\varepsilon_r = 54.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456: Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

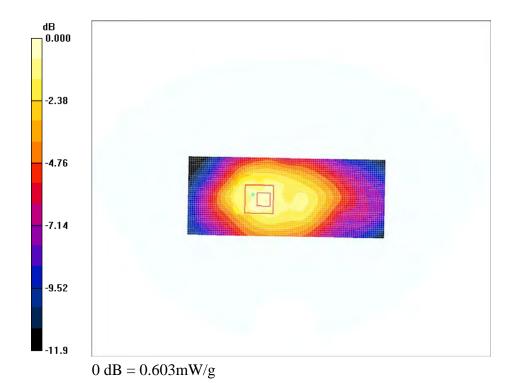
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Left Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.520 mW/g

EUT 1.0cm Left Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.8 V/m; Power Drift = -0.248 dB Peak SAR (extrapolated) = 1.04 W/kg

SAR (1 g) = 0.565 mW/g; SAR (10 g) = 0.363 mW/gMaximum value of SAR (measured) = 0.603 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Bottom Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850 4 Slot; Frequency: 824.2 MHz; Duty Cycle: 1:2 Medium parameters used: f = 824.2 MHz; $\sigma = 0.91$ mho/m; $\varepsilon_r = 55.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

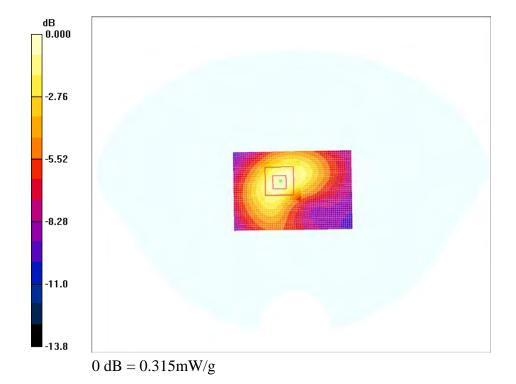
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Bottom Side to the Flat Phantom/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.322 mW/g

EUT 1.0cm Bottom Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 14.1 V/m; Power Drift = -0.127 dB

Peak SAR (extrapolated) = 0.468 W/kg

SAR (1 g) = 0.284 mW/g; SAR (10 g) = 0.167 mW/gMaximum value of SAR (measured) = 0.315 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) **EUT 1.0cm Bottom Side to the Flat Phantom (Middle Channel)**

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850 4 Slot; Frequency: 836.6 MHz; Duty Cycle: 1:2 Medium parameters used: f = 836.87 MHz; $\sigma = 0.927$ mho/m; $\varepsilon_r = 55.0$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

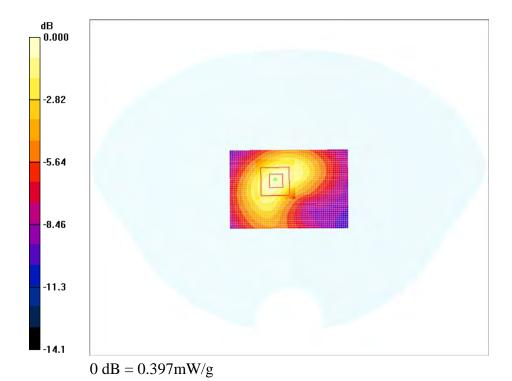
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Bottom Side to the Flat Phantom/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.418 mW/g

EUT 1.0cm Bottom Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 16.1 V/m; Power Drift = -0.338 dB

Peak SAR (extrapolated) = 0.596 W/kg

SAR (1 g) = 0.358 mW/g; SAR (10 g) = 0.209 mW/gMaximum value of SAR (measured) = 0.397 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Bottom Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: GSM 850 4 Slot; Frequency: 848.8 MHz; Duty Cycle: 1:2 Medium parameters used: f = 848.8 MHz; $\sigma = 0.94$ mho/m; $\varepsilon_r = 54.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(6.19, 6.19, 6.19); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456: Calibrated: 3/16/2012

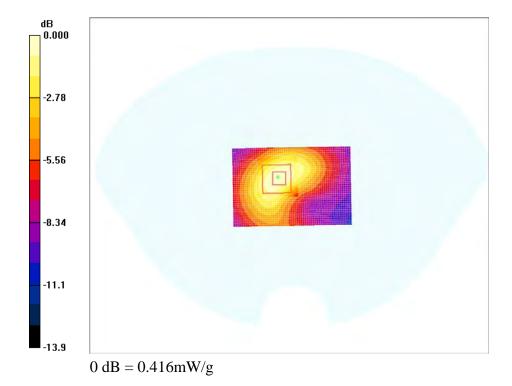
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Bottom Side to the Flat Phantom/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.423 mW/g

EUT 1.0cm Bottom Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 15.8 V/m; Power Drift = -0.159 dB Peak SAR (extrapolated) = 0.639 W/kg

SAR (1 g) = 0.380 mW/g; SAR (10 g) = 0.223 mW/g Maximum value of SAR (measured) = 0.416 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 1850.2 MHz; $\sigma = 1.53$ mho/m; $\varepsilon_r = 53.0$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

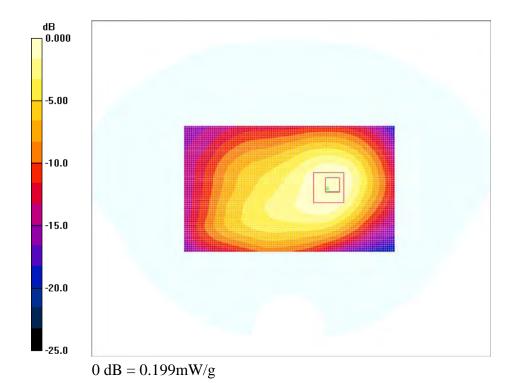
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.203 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.78 V/m; Power Drift = 0.009 dB Peak SAR (extrapolated) = 0.356 W/kg

SAR (1 g) = 0.185 mW/g; SAR (10 g) = 0.102 mW/gMaximum value of SAR (measured) = 0.199 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3 Medium parameters used: f=1880 MHz; $\sigma=1.57$ mho/m; $\epsilon_r=52.6$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

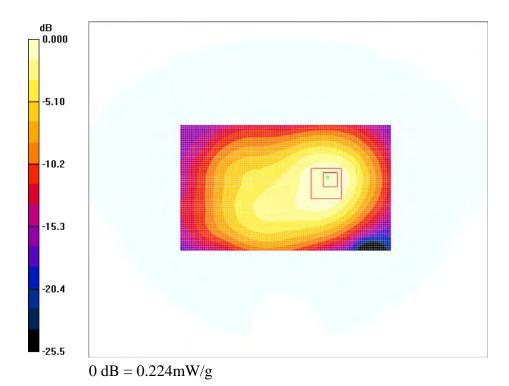
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.224 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.04 V/m; Power Drift = 0.070 dB Peak SAR (extrapolated) = 0.399 W/kg

SAR (1 g) = 0.207 mW/g; SAR (10 g) = 0.112 mW/gMaximum value of SAR (measured) = 0.224 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3 Medium parameters used: f=1909.8 MHz; $\sigma=1.6$ mho/m; $\epsilon_r=52.1$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

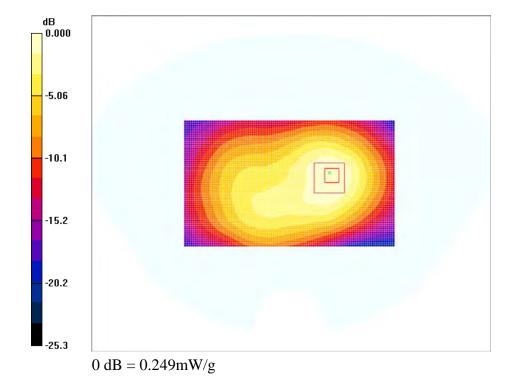
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.245 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.06 V/m; Power Drift = 0.085 dB Peak SAR (extrapolated) = 0.455 W/kg

SAR (1 g) = 0.230 mW/g; SAR (10 g) = 0.122 mW/gMaximum value of SAR (measured) = 0.249 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Back Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3 Medium parameters used: f=1850.2 MHz; $\sigma=1.53$ mho/m; $\epsilon_r=53.0$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

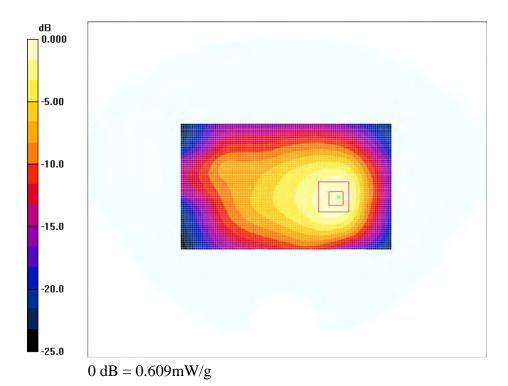
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.676 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = 0.020 dB Peak SAR (extrapolated) = 1.15 W/kg

SAR (1 g) = 0.563 mW/g; SAR (10 g) = 0.293 mW/gMaximum value of SAR (measured) = 0.609 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Back Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz; σ = 1.57 mho/m; ϵ_r = 52.6; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

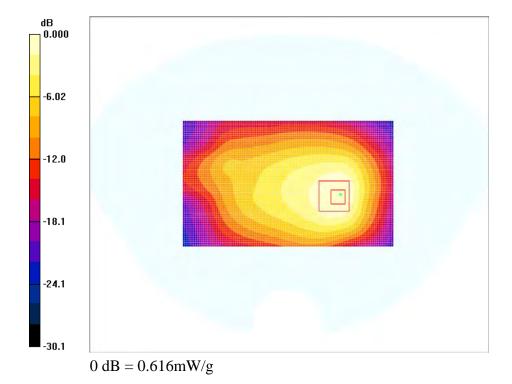
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.677 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.3 V/m; Power Drift = -0.052 dB Peak SAR (extrapolated) = 1.21 W/kg

SAR (1 g) = 0.577 mW/g; SAR (10 g) = 0.299 mW/g Maximum value of SAR (measured) = 0.616 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Back Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3 Medium parameters used: f=1909.8 MHz; $\sigma=1.6$ mho/m; $\epsilon_r=52.1$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

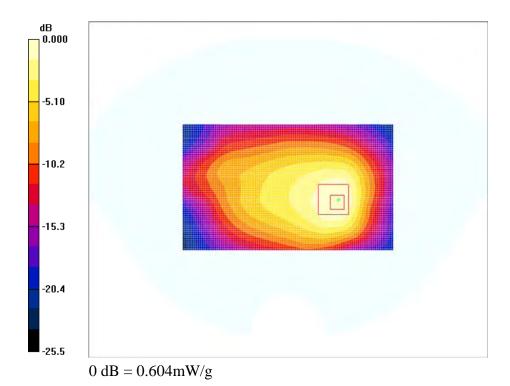
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.646 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.2 V/m; Power Drift = -0.056 dB Peak SAR (extrapolated) = 1.17 W/kg

SAR (1 g) = 0.552 mW/g; SAR (10 g) = 0.286 mW/g Maximum value of SAR (measured) = 0.604 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) Right Head Tilt (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): f = 1880 MHz; $\sigma = 1.37$ mho/m; $\varepsilon_r = 40$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.87, 4.87, 4.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

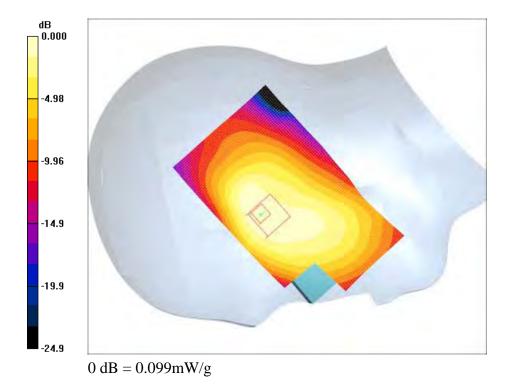
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Right Head Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.097 mW/g

Right Head Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.73 V/m; Power Drift = 0.043 dB Peak SAR (extrapolated) = 0.165 W/kg

SAR (1 g) = 0.091 mW/g; SAR (10 g) = 0.052 mW/gMaximum value of SAR (measured) = 0.099 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) Right Head Touch (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): f = 1880 MHz; $\sigma = 1.37$ mho/m; $\varepsilon_r = 40$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.87, 4.87, 4.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

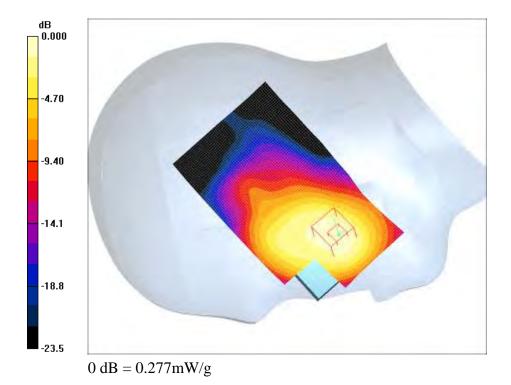
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Right Head Touch/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.271 mW/g

Right Head Touch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 2.95 V/m; Power Drift = -0.211 dB Peak SAR (extrapolated) = 0.467 W/kg

SAR (1 g) = 0.250 mW/g; SAR (10 g) = 0.134 mW/gMaximum value of SAR (measured) = 0.277 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) Left Head Tilt (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): f = 1880 MHz; $\sigma = 1.37$ mho/m; $\varepsilon_r = 40$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.87, 4.87, 4.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

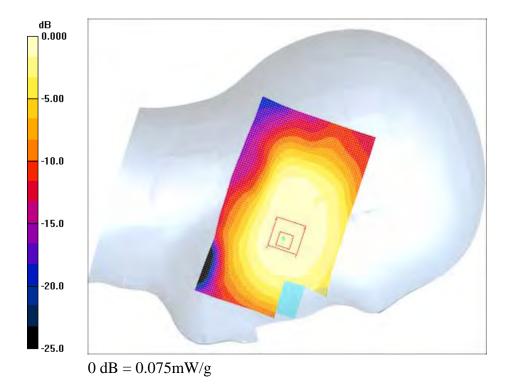
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Left Head Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.074 mW/g

Left Head Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.66 V/m; Power Drift = 0.168 dB Peak SAR (extrapolated) = 0.116 W/kg

SAR (1 g) = 0.070 mW/g; SAR (10 g) = 0.042 mW/gMaximum value of SAR (measured) = 0.075 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) Left Head Touch (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): f = 1880 MHz; $\sigma = 1.37$ mho/m; $\varepsilon_r = 40$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.87, 4.87, 4.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

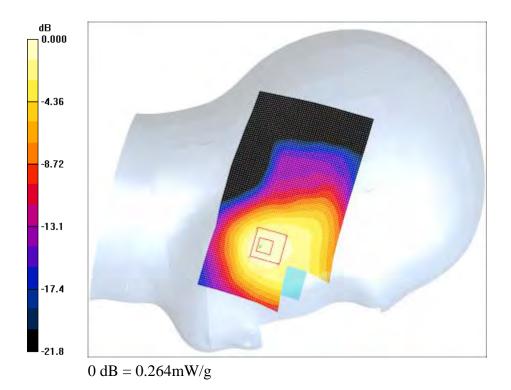
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Left Head Touch/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.261 mW/g

Left Head Touch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 2.48 V/m; Power Drift = 0.283 dB Peak SAR (extrapolated) = 0.399 W/kg

SAR (1 g) = 0.242 mW/g; SAR (10 g) = 0.135 mW/g Maximum value of SAR (measured) = 0.264 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1852.4 MHz; $\sigma = 1.53 \text{ mho/m}$; $\varepsilon_r = 53.0$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

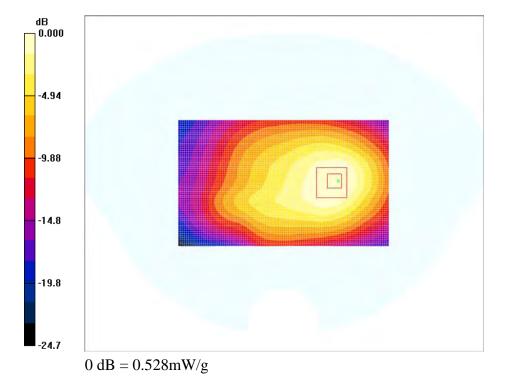
EUT 1.0cm Front Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.551 mW/g

EUT 1.0cm Front Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.1 V/m; Power Drift = 0.029 dB Peak SAR (extrapolated) = 0.921 W/kg

SAR (1 g) = 0.491 mW/g; SAR (10 g) = 0.272 mW/g Maximum value of SAR (measured) = 0.528 mW/g

Maximum value of SAR (measured) = 0.528 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1880 MHz; Duty Cycle: 1:1 Medium parameters used: f=1880 MHz; $\sigma=1.57$ mho/m; $\epsilon_r=52.6$; $\rho=1000$ kg/m 3

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

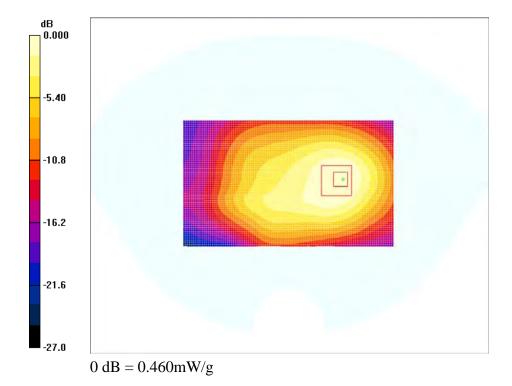
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Front Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.473 mW/g

EUT 1.0cm Front Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.4 V/m; Power Drift = 0.036 dB Peak SAR (extrapolated) = 0.809 W/kg

SAR (1 g) = 0.424 mW/g; SAR (10 g) = 0.233 mW/g Maximum value of SAR (measured) = 0.460 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1907.6 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f=1907.6 MHz; $\sigma=1.58$ mho/m; $\epsilon_r=52.1$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

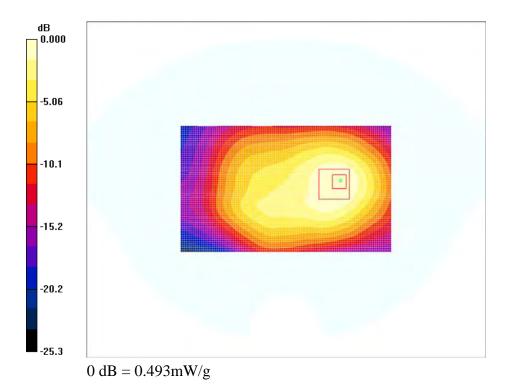
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Front Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.499 mW/g

EUT 1.0cm Front Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.9 V/m; Power Drift = 0.075 dB Peak SAR (extrapolated) = 0.879 W/kg

SAR (1 g) = 0.452 mW/g; SAR (10 g) = 0.245 mW/gMaximum value of SAR (measured) = 0.493 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) **EUT 1.0cm Back Side to the Flat Phantom (Low Channel)**

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1852.4 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1852.4 MHz; $\sigma = 1.53 \text{ mho/m}$; $\varepsilon_r = 53.0$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

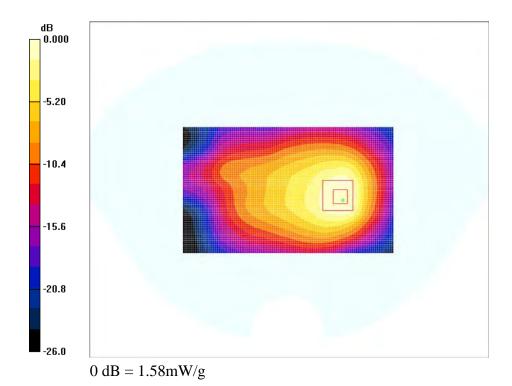
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.85 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.3 V/m; Power Drift = 0.153 dBPeak SAR (extrapolated) = 2.99 W/kg

SAR (1 g) = 1.45 mW/g; SAR (10 g) = 0.745 mW/gMaximum value of SAR (measured) = 1.58 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Back Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1880 MHz; Duty Cycle: 1:1 Medium parameters used: f=1880 MHz; $\sigma=1.57$ mho/m; $\epsilon_r=52.6$; $\rho=1000$ kg/m 3

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

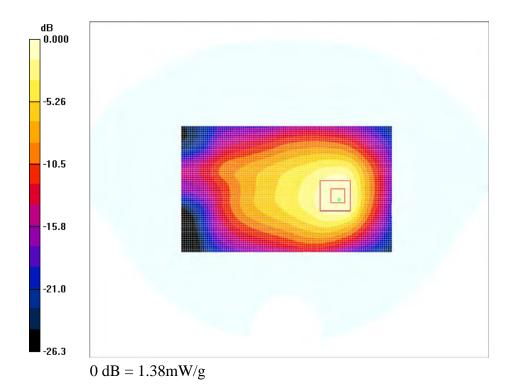
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.58 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.2 V/m; Power Drift = 0.042 dB Peak SAR (extrapolated) = 2.65 W/kg

SAR (1 g) = 1.27 mW/g; SAR (10 g) = 0.652 mW/g Maximum value of SAR (measured) = 1.38 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) **EUT 1.0cm Back Side to the Flat Phantom (High Channel)**

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1907.6 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1907.6 MHz; $\sigma = 1.58 \text{ mho/m}$; $\varepsilon_r = 52.1$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

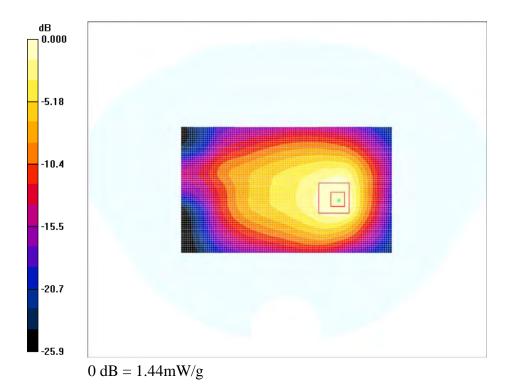
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.67 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.2 V/m; Power Drift = 0.081 dB Peak SAR (extrapolated) = 2.81 W/kg

SAR (1 g) = 1.32 mW/g; SAR (10 g) = 0.677 mW/gMaximum value of SAR (measured) = 1.44 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Right Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1852.4 MHz; $\sigma = 1.53 \text{ mho/m}$; $\varepsilon_r = 53.0$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

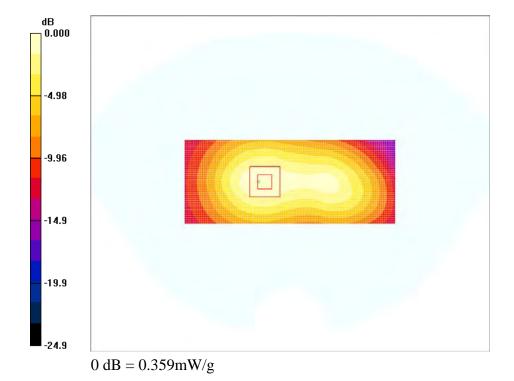
EUT 1.0cm Right Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.358 mW/g

EUT 1.0cm Right Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.9 V/m; Power Drift = 0.116 dB Peak SAR (extrapolated) = 0.626 W/kg

SAR (1 g) = 0.329 mW/g; SAR (10 g) = 0.176 mW/g

Maximum value of SAR (measured) = 0.359 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Right Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1880 MHz; Duty Cycle: 1:1 Medium parameters used: f=1880 MHz; $\sigma=1.57$ mho/m; $\epsilon_r=52.6$; $\rho=1000$ kg/m 3

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

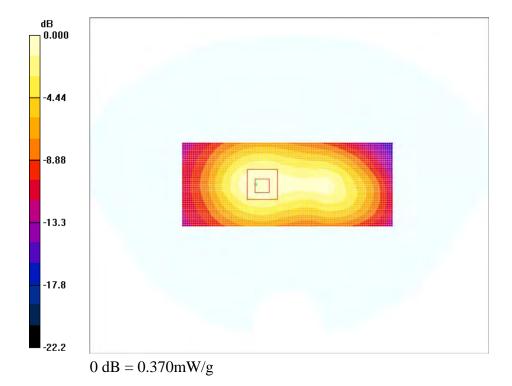
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Right Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.370 mW/g

EUT 1.0cm Right Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.1 V/m; Power Drift = 0.001 dB Peak SAR (extrapolated) = 0.646 W/kg

SAR (1 g) = 0.338 mW/g; SAR (10 g) = 0.181 mW/gMaximum value of SAR (measured) = 0.370 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Right Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1907.6 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1907.6 MHz; $\sigma = 1.58$ mho/m; $\varepsilon_r = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

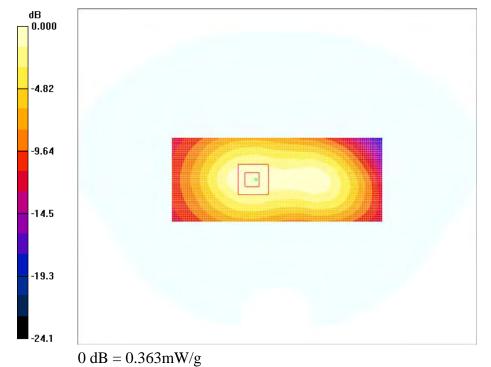
EUT 1.0cm Right Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.361 mW/g

EUT 1.0cm Right Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.2 V/m; Power Drift = 0.002 dB Peak SAR (extrapolated) = 0.636 W/kg

SAR (1 g) = 0.331 mW/g; SAR (10 g) = 0.176 mW/g Mayimum valva of SAR (measured) = 0.262 mW/g

Maximum value of SAR (measured) = 0.363 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Left Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1852.4 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f=1852.4 MHz; $\sigma=1.53$ mho/m; $\epsilon_r=53.0$; $\rho=1000$ kg/m 3

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

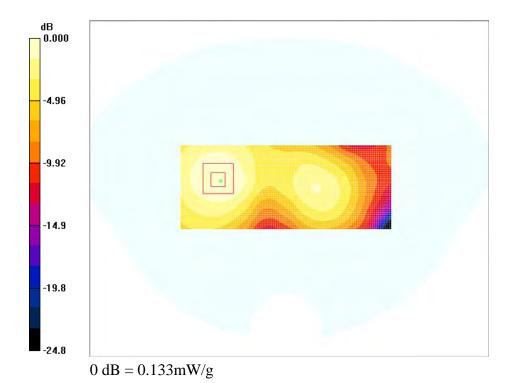
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Left Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.134 mW/g

EUT 1.0cm Left Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.91 V/m; Power Drift = 0.430 dB Peak SAR (extrapolated) = 0.230 W/kg

SAR (1 g) = 0.122 mW/g; SAR (10 g) = 0.068 mW/gMaximum value of SAR (measured) = 0.133 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Left Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1880 MHz; Duty Cycle: 1:1 Medium parameters used: f=1880 MHz; $\sigma=1.57$ mho/m; $\epsilon_r=52.6$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

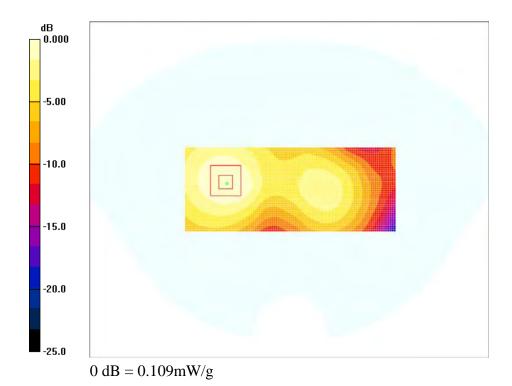
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Left Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.112 mW/g

EUT 1.0cm Left Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.34 V/m; Power Drift = 0.165 dB Peak SAR (extrapolated) = 0.194 W/kg

SAR (1 g) = 0.101 mW/g; SAR (10 g) = 0.055 mW/gMaximum value of SAR (measured) = 0.109 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) **EUT 1.0cm Left Side to the Flat Phantom (High Channel)**

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1907.6 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1907.6 MHz; $\sigma = 1.58 \text{ mho/m}$; $\varepsilon_r = 52.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

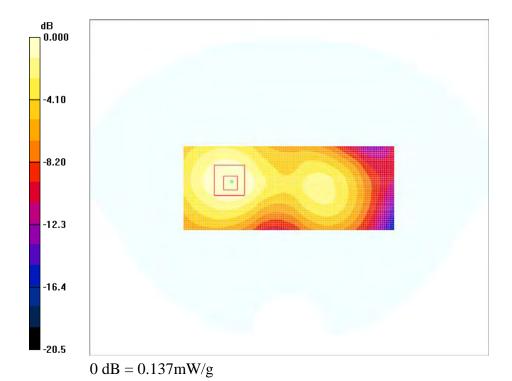
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Left Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.145 mW/g

EUT 1.0cm Left Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.44 V/m; Power Drift = -0.375 dBPeak SAR (extrapolated) = 0.243 W/kg

SAR (1 g) = 0.126 mW/g; SAR (10 g) = 0.068 mW/gMaximum value of SAR (measured) = 0.137 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) **EUT 1.0cm Bottom Side to the Flat Phantom (Low Channel)**

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1852.4 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1852.4 MHz; $\sigma = 1.53 \text{ mho/m}$; $\varepsilon_r = 53.0$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Bottom Side to the Flat Phantom/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.607 mW/g

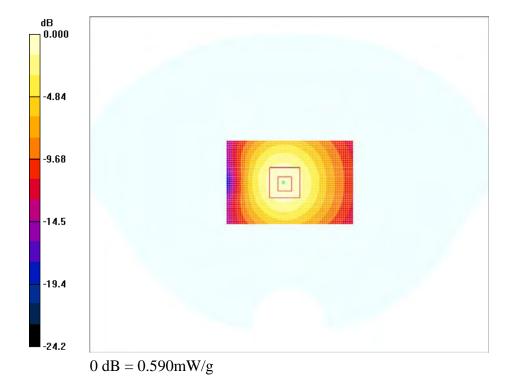
EUT 1.0cm Bottom Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.0 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR (1 g) = 0.541 mW/g; SAR (10 g) = 0.285 mW/g

Maximum value of SAR (measured) = 0.590 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Bottom Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1880 MHz; Duty Cycle: 1:1 Medium parameters used: f=1880 MHz; $\sigma=1.57$ mho/m; $\epsilon_r=52.6$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

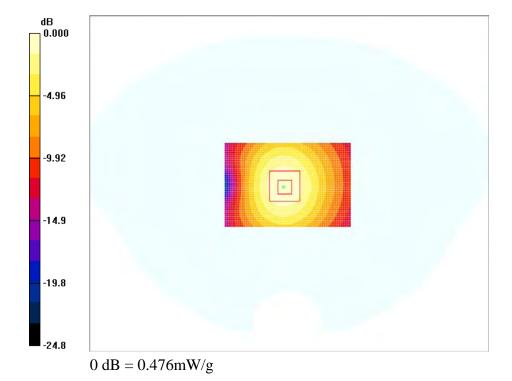
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Bottom Side to the Flat Phantom/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.481 mW/g

EUT 1.0cm Bottom Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.8 V/m; Power Drift = 0.069 dB Peak SAR (extrapolated) = 0.833 W/kg

SAR (1 g) = 0.437 mW/g; SAR (10 g) = 0.228 mW/gMaximum value of SAR (measured) = 0.476 mW/g



Test Laboratory: Bay Area Compliance Lab Corp.(BACL) EUT 1.0cm Bottom Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1907.6 MHz; $\sigma = 1.58 \text{ mho/m}$; $\varepsilon_r = 52.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

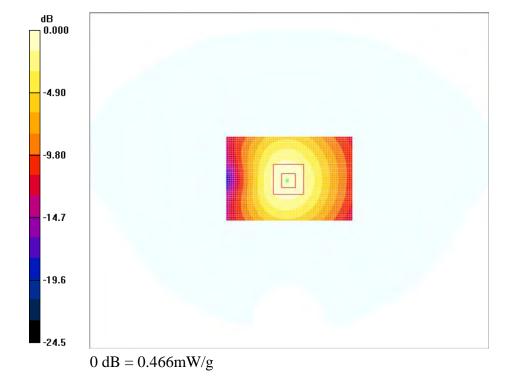
EUT 1.0cm Bottom Side to the Flat Phantom/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.469 mW/g

EUT 1.0cm Bottom Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.6 V/m; Power Drift = 0.014 dB Peak SAR (extrapolated) = 0.811 W/kg

SAR (1 g) = 0.423 mW/g; SAR (10 g) = 0.220 mW/g

Maximum value of SAR (measured) = 0.466 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) Right Head Tilt (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1880 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f=1880 MHz; $\sigma=1.37$ mho/m; $\epsilon_r=40$; $\rho=1000$ kg/m³ Phantom section: Right Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.87, 4.87, 4.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

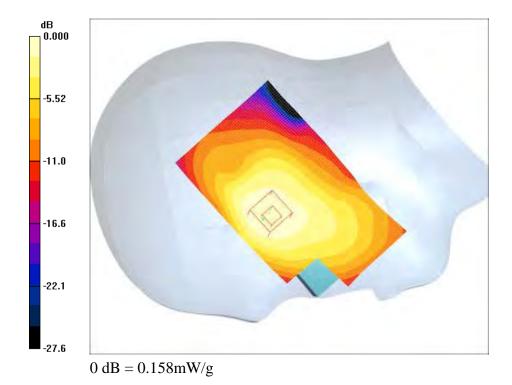
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Right Head Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.166 mW/g

Right Head Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.33 V/m; Power Drift = 0.161 dB Peak SAR (extrapolated) = 0.245 W/kg

SAR (1 g) = 0.144 mW/g; SAR (10 g) = 0.083 mW/g Maximum value of SAR (measured) = 0.158 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) Right Head Touch (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1880 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f=1880 MHz; $\sigma=1.37$ mho/m; $\epsilon_r=40$; $\rho=1000$ kg/m³ Phantom section: Right Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.87, 4.87, 4.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

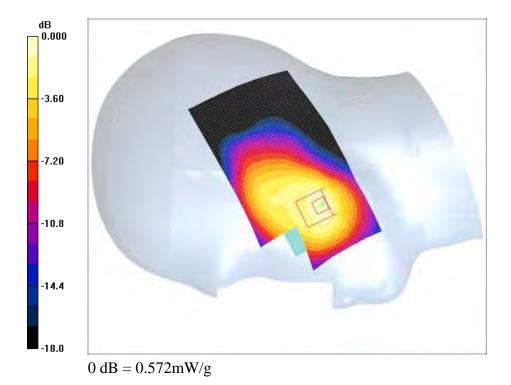
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Right Head Touch/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.566 mW/g

Right Head Touch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.94 V/m; Power Drift = -0.002 dB Peak SAR (extrapolated) = 1.08 W/kg

SAR (1 g) = 0.524 mW/g; SAR (10 g) = 0.272 mW/g Maximum value of SAR (measured) = 0.572 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) Left Head Tilt (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1880 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f=1880 MHz; $\sigma=1.37$ mho/m; $\epsilon_r=40$; $\rho=1000$ kg/m³ Phantom section: Left Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.87, 4.87, 4.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

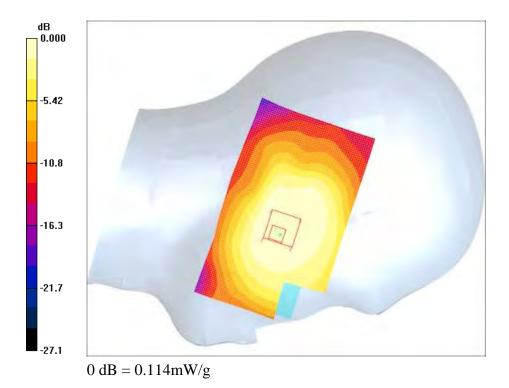
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Left Head Tilt/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.113 mW/g

Left Head Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.58 V/m; Power Drift = 0.246 dB Peak SAR (extrapolated) = 0.187 W/kg

SAR (1 g) = 0.106 mW/g; SAR (10 g) = 0.063 mW/g Maximum value of SAR (measured) = 0.114 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) Left Head Touch (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: WCDMA-1900MHz; Frequency: 1880 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f=1880 MHz; $\sigma=1.37$ mho/m; $\epsilon_r=40$; $\rho=1000$ kg/m³ Phantom section: Left Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.87, 4.87, 4.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

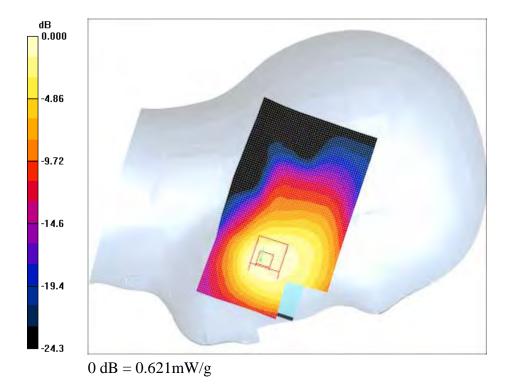
• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Left Head Touch/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.632 mW/g

Left Head Touch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.67 V/m; Power Drift = 0.009 dB Peak SAR (extrapolated) = 0.962 W/kg

SAR (1 g) = 0.565 mW/g; SAR (10 g) = 0.314 mW/g Maximum value of SAR (measured) = 0.621 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900 4 Slot; Frequency: 1850.2 MHz; Duty Cycle: 1:2 Medium parameters used: f=1850.2 MHz; $\sigma=1.53$ mho/m; $\epsilon_r=53.0$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

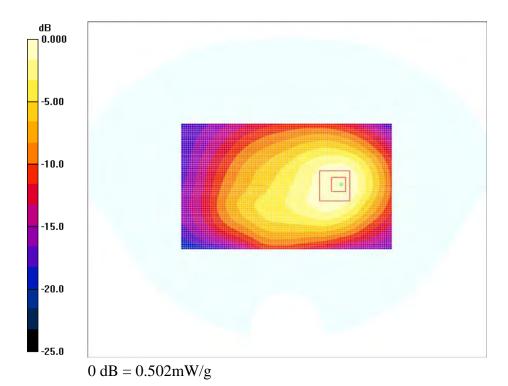
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Front Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.524 mW/g

EUT 1.0cm Front Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.5 V/m; Power Drift = -0.234 dB Peak SAR (extrapolated) = 0.829 W/kg

SAR (1 g) = 0.461 mW/g; SAR (10 g) = 0.253 mW/gMaximum value of SAR (measured) = 0.502 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900 4 Slot; Frequency: 1880 MHz; Duty Cycle: 1:2 Medium parameters used: f = 1880 MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

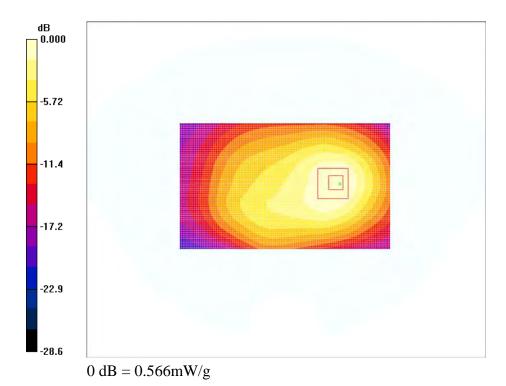
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Front Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.581 mW/g

EUT 1.0cm Front Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.1 V/m; Power Drift = -0.200 dB Peak SAR (extrapolated) = 0.984 W/kg

SAR (1 g) = 0.521 mW/g; SAR (10 g) = 0.284 mW/gMaximum value of SAR (measured) = 0.566 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900 4 Slot; Frequency: 1909.8 MHz;Duty Cycle: 1:2 Medium parameters used: f = 1909.8 MHz; $\sigma = 1.6$ mho/m; $\varepsilon_r = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

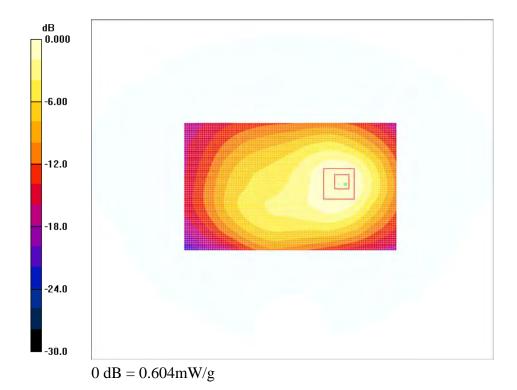
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Front Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.622 mW/g

EUT 1.0cm Front Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.1 V/m; Power Drift = 0.048 dB Peak SAR (extrapolated) = 1.09 W/kg

SAR (1 g) = 0.564 mW/g; SAR (10 g) = 0.306 mW/g Maximum value of SAR (measured) = 0.604 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Back Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900 4 Slot; Frequency: 1850.2 MHz; Duty Cycle: 1:2 Medium parameters used: f=1850.2 MHz; $\sigma=1.53$ mho/m; $\epsilon_r=53.0$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

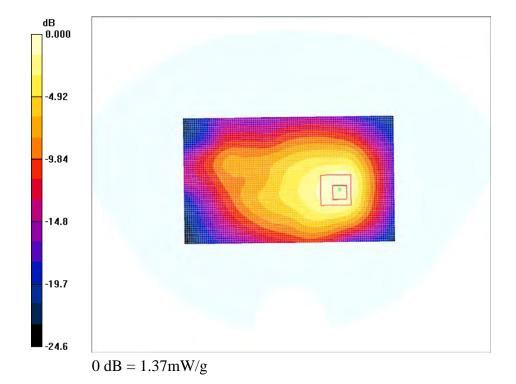
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.50 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.6 V/m; Power Drift = 0.662 dB Peak SAR (extrapolated) = 2.70 W/kg

SAR (1 g) = 1.21 mW/g; SAR (10 g) = 0.625 mW/g Maximum value of SAR (measured) = 1.37 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Back Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900 4 Slot; Frequency: 1880 MHz; Duty Cycle: 1:2 Medium parameters used: f=1880 MHz; $\sigma=1.57$ mho/m; $\epsilon_r=52.6$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

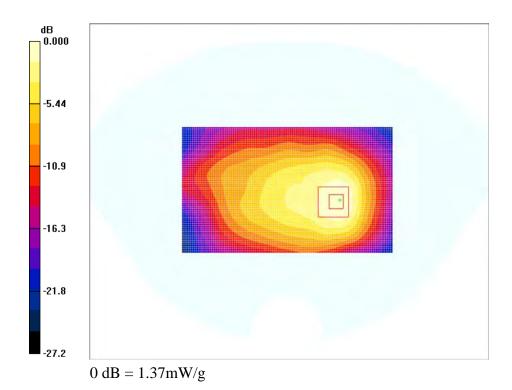
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.47 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.9 V/m; Power Drift = -0.465 dB Peak SAR (extrapolated) = 2.83 W/kg

SAR (1 g) = 1.27 mW/g; SAR (10 g) = 0.631 mW/g Maximum value of SAR (measured) = 1.37 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Back Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900 4 Slot; Frequency: 1909.8 MHz;Duty Cycle: 1:2 Medium parameters used: f=1909.8 MHz; $\sigma=1.6$ mho/m; $\epsilon_r=52.1$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

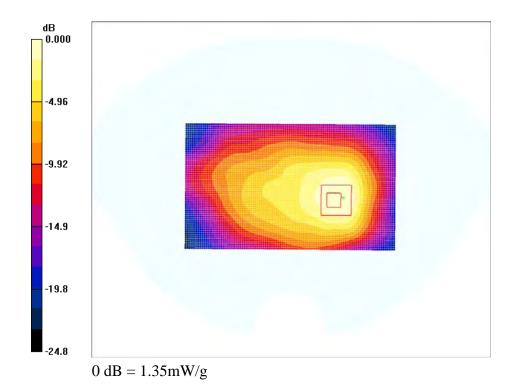
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.44 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.0 V/m; Power Drift = 0.009 dB Peak SAR (extrapolated) = 2.92 W/kg

SAR (1 g) = 1.23 mW/g; SAR (10 g) = 0.618 mW/gMaximum value of SAR (measured) = 1.35 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Right Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900 4 Slot; Frequency: 1850.2 MHz; Duty Cycle: 1:2 Medium parameters used: f=1850.2 MHz; $\sigma=1.53$ mho/m; $\epsilon_r=53.0$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

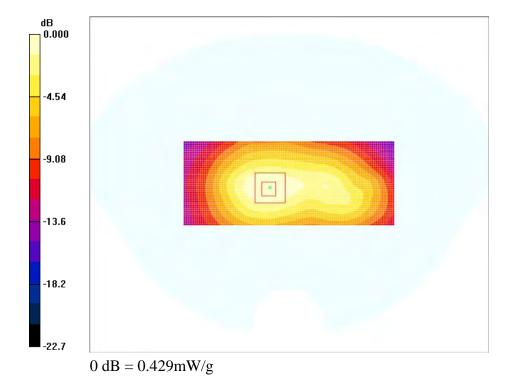
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Right Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.429 mW/g

EUT 1.0cm Right Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.7 V/m; Power Drift = 0.417 dB Peak SAR (extrapolated) = 0.841 W/kg

SAR (1 g) = 0.389 mW/g; SAR (10 g) = 0.202 mW/gMaximum value of SAR (measured) = 0.429 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Right Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900 4 Slot; Frequency: 1880 MHz; Duty Cycle: 1:2 Medium parameters used: f = 1880 MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

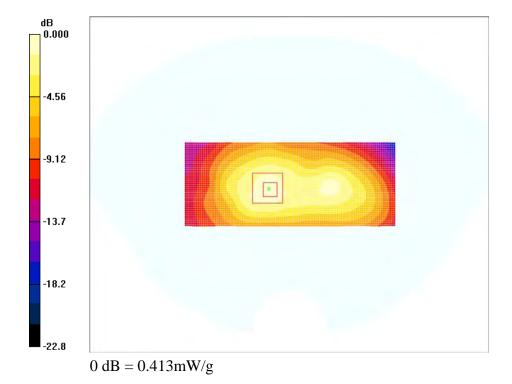
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Right Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.378 mW/g

EUT 1.0cm Right Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.9 V/m; Power Drift = -0.090 dB Peak SAR (extrapolated) = 0.947 W/kg

SAR (1 g) = 0.377 mW/g; SAR (10 g) = 0.197 mW/gMaximum value of SAR (measured) = 0.413 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Right Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900 4 Slot; Frequency: 1909.8 MHz;Duty Cycle: 1:2 Medium parameters used: f=1909.8 MHz; $\sigma=1.6$ mho/m; $\epsilon_r=52.1$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

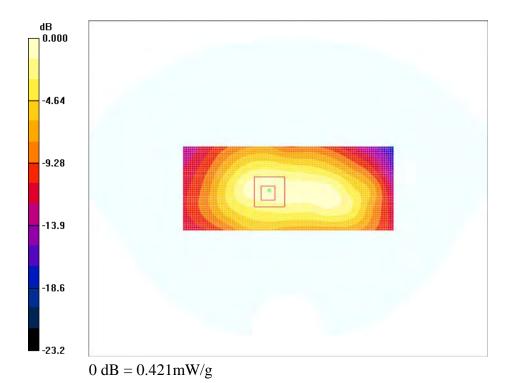
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Right Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.406 mW/g

EUT 1.0cm Right Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.7 V/m; Power Drift = -0.056 dB Peak SAR (extrapolated) = 0.819 W/kg

SAR (1 g) = 0.387 mW/g; SAR (10 g) = 0.197 mW/gMaximum value of SAR (measured) = 0.421 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Left Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900 4 Slot; Frequency: 1850.2 MHz; Duty Cycle: 1:2 Medium parameters used: f=1850.2 MHz; $\sigma=1.53$ mho/m; $\epsilon_r=53.0$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

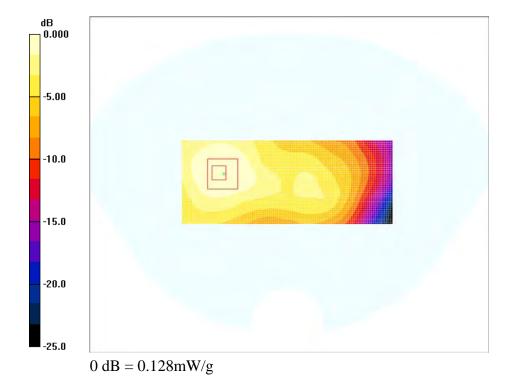
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Left Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.129 mW/g

EUT 1.0cm Left Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.69 V/m; Power Drift = 0.112 dB Peak SAR (extrapolated) = 0.235 W/kg

SAR (1 g) = 0.113 mW/g; SAR (10 g) = 0.064 mW/gMaximum value of SAR (measured) = 0.128 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Left Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900 4 Slot; Frequency: 1880 MHz; Duty Cycle: 1:2 Medium parameters used: f=1880 MHz; $\sigma=1.57$ mho/m; $\epsilon_r=52.6$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456: Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

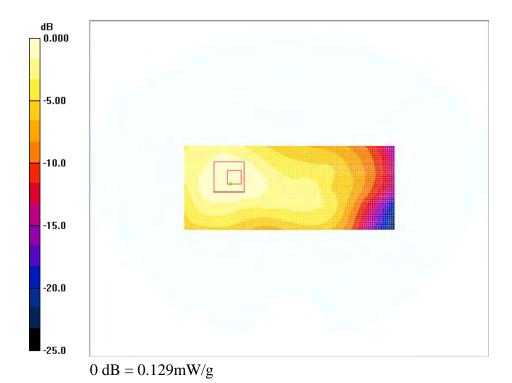
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Left Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.132 mW/g

EUT 1.0cm Left Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.14 V/m; Power Drift = 0.089 dB Peak SAR (extrapolated) = 0.270 W/kg

SAR (1 g) = 0.118 mW/g; SAR (10 g) = 0.063 mW/gMaximum value of SAR (measured) = 0.129 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Left Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900 4 Slot; Frequency: 1909.8 MHz; Duty Cycle: 1:2 Medium parameters used: f = 1909.8 MHz; $\sigma = 1.6$ mho/m; $\varepsilon_r = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

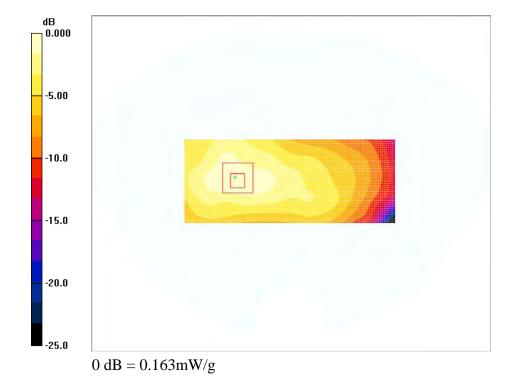
EUT 1.0cm Left Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.163 mW/g

EUT 1.0cm Left Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.26 V/m; Power Drift = 0.062 dB Peak SAR (extrapolated) = 0.346 W/kg

SAR (1 g) = 0.151 mW/g; SAR (10 g) = 0.080 mW/g

Maximum value of SAR (measured) = 0.163 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Bottom Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900 4 Slot; Frequency: 1850.2 MHz;Duty Cycle: 1:2 Medium parameters used: f=1850.2 MHz; $\sigma=1.53$ mho/m; $\epsilon_r=53.0$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

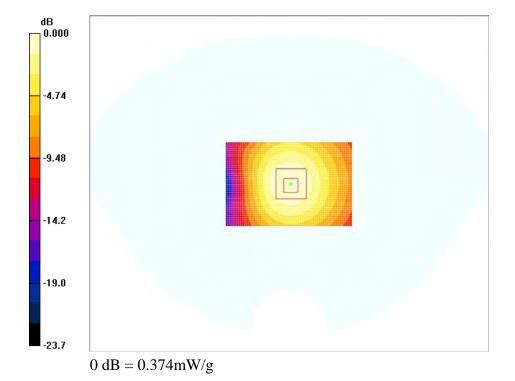
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Bottom Side to the Flat Phantom/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.380 mW/g

EUT 1.0cm Bottom Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.0 V/m; Power Drift = 0.157 dB Peak SAR (extrapolated) = 0.633 W/kg

SAR (1 g) = 0.342 mW/g; SAR (10 g) = 0.185 mW/g Maximum value of SAR (measured) = 0.374 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Bottom Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900 4 Slot; Frequency: 1880 MHz; Duty Cycle: 1:2 Medium parameters used: f = 1880 MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

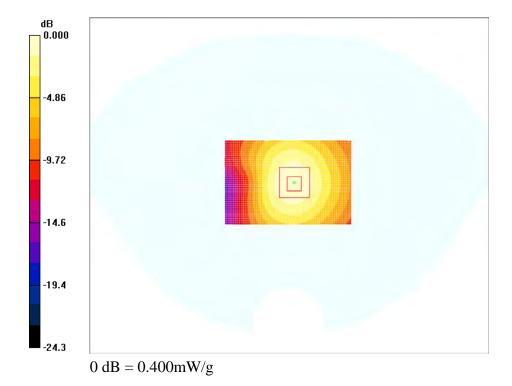
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Bottom Side to the Flat Phantom/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.410 mW/g

EUT 1.0cm Bottom Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.1 V/m; Power Drift = -0.161 dB Peak SAR (extrapolated) = 0.697 W/kg

SAR (1 g) = 0.365 mW/g; SAR (10 g) = 0.192 mW/gMaximum value of SAR (measured) = 0.400 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Bottom Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: PCS 1900 4 Slot; Frequency: 1909.8 MHz;Duty Cycle: 1:2 Medium parameters used: f=1909.8 MHz; $\sigma=1.6$ mho/m; $\epsilon_r=52.1$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(4.38, 4.38, 4.38); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456: Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

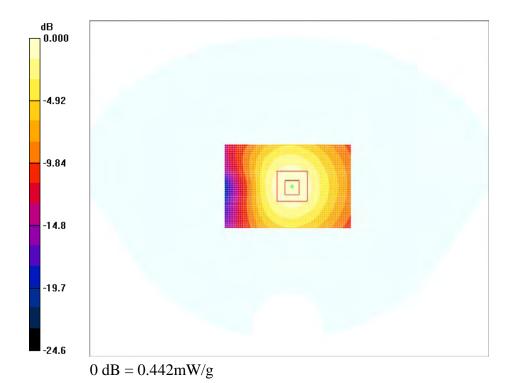
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Bottom Side to the Flat Phantom/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.448 mW/g

EUT 1.0cm Bottom Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 17.1 V/m; Power Drift = -0.176 dB

Peak SAR (extrapolated) = 0.765 W/kg

SAR (1 g) = 0.404 mW/g; SAR (10 g) = 0.214 mW/gMaximum value of SAR (measured) = 0.442 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: 802.11B; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2412 MHz; $\sigma = 1.97$ mho/m; $\varepsilon_r = 50.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(3.87, 3.87, 3.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456: Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

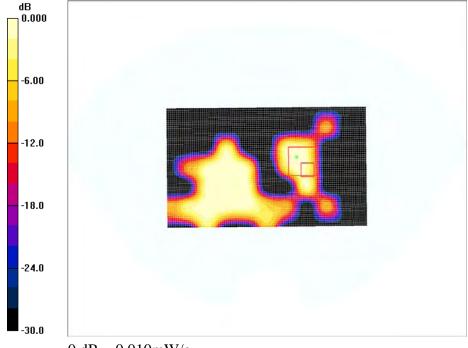
EUT 1.0cm Front Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.022 mW/g

EUT 1.0cm Front Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.865 V/m; Power Drift = 0.658 dB Peak SAR (extrapolated) = 0.010 W/kg

SAR (1 g) = 0.000348 mW/g; SAR (10 g) = 7.44e-005 mW/g

Maximum value of SAR (measured) = 0.010 mW/g



0 dB = 0.010 mW/g

Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: 802.11B; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2437 MHz; $\sigma = 2.01 \text{ mho/m}$; $\varepsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(3.87, 3.87, 3.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456: Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

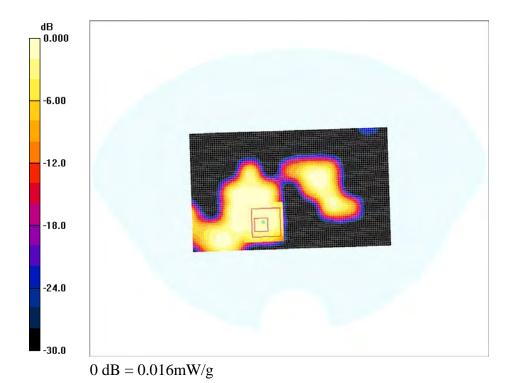
EUT 1.0cm Front Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.031 mW/g

EUT 1.0cm Front Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.930 V/m; Power Drift = 1.59 dB Peak SAR (extrapolated) = 0.058 W/kg

SAR (1 g) = 0.0075 mW/g; SAR (10 g) = 0.00101 mW/g

Maximum value of SAR (measured) = 0.016 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Front Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: 802.11B; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2462 MHz; $\sigma = 2.05$ mho/m; $\varepsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(3.87, 3.87, 3.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456: Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

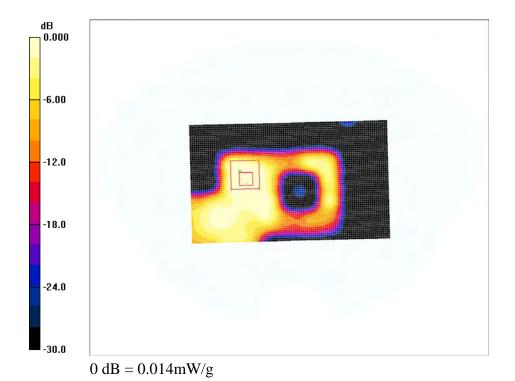
EUT 1.0cm Front Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.038 mW/g

EUT 1.0cm Front Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.592 V/m; Power Drift = 6.19 dB Peak SAR (extrapolated) = 0.087 W/kg

SAR (1 g) = 0.016 mW/g; SAR (10 g) = 0.00309 mW/g

Maximum value of SAR (measured) = 0.014 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Back Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: 802.11B; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2412 MHz; $\sigma = 1.97 \text{ mho/m}$; $\varepsilon_r = 50.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(3.87, 3.87, 3.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

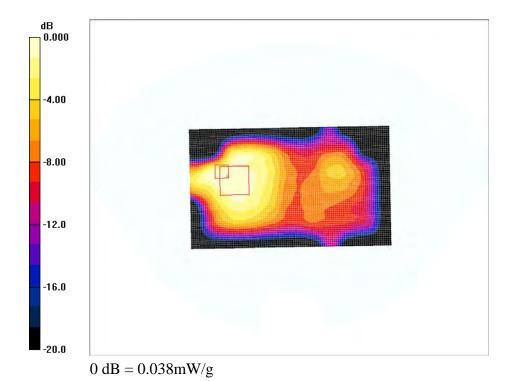
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.046 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.71 V/m; Power Drift = 1.30 dB Peak SAR (extrapolated) = 0.106 W/kg

SAR (1 g) = 0.032 mW/g; SAR (10 g) = 0.015 mW/gMaximum value of SAR (measured) = 0.038 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Back Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: 802.11B; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2437 MHz; $\sigma = 2.01$ mho/m; $\varepsilon_r = 50.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(3.87, 3.87, 3.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

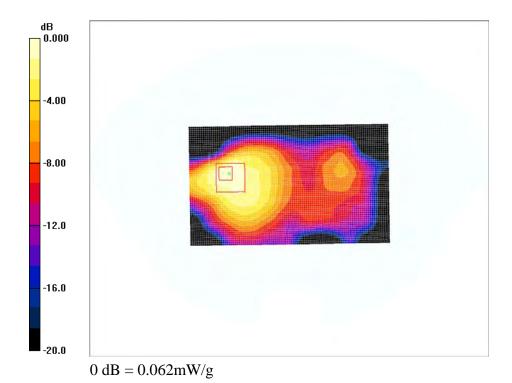
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.075 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.48 V/m; Power Drift = 0.334 dB Peak SAR (extrapolated) = 0.098 W/kg

SAR (1 g) = 0.050 mW/g; SAR (10 g) = 0.021 mW/gMaximum value of SAR (measured) = 0.062 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) **EUT 1.0cm Back Side to the Flat Phantom (High Channel)**

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: 802.11B; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2462 MHz; $\sigma = 2.05$ mho/m; $\varepsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV2 - SN3019; ConvF(3.87, 3.87, 3.87); Calibrated: 8/25/2011

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

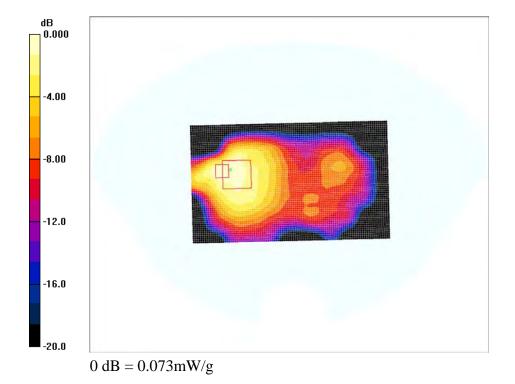
EUT 1.0cm Back Side to the Flat Phantom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.087 mW/g

EUT 1.0cm Back Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.68 V/m; Power Drift = -1.60 dB Peak SAR (extrapolated) = 0.195 W/kg

SAR (1 g) = 0.053 mW/g; SAR (10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.073 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Left Side to the Flat Phantom (Low Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: 802.11B; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2412 MHz; $\sigma = 1.97$ mho/m; $\varepsilon_r = 50.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(3.87, 3.87, 3.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Post processing SW: SEMCAD, V1.8 Build 186

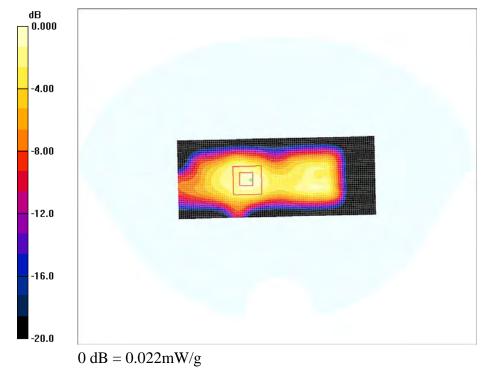
EUT 1.0cm Left Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.019 mW/g

EUT 1.0cm Left Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.25 V/m; Power Drift = 0.070 dB Peak SAR (extrapolated) = 0.081 W/kg

SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.0077 mW/g

Maximum value of SAR (measured) = 0.022 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Left Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: 802.11B; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2437 MHz; $\sigma = 2.01 \text{ mho/m}$; $\varepsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(3.87, 3.87, 3.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

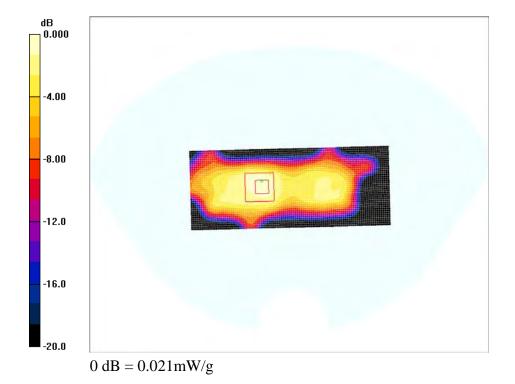
EUT 1.0cm Left Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.018 mW/g

EUT 1.0cm Left Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.19 V/m; Power Drift = -2.79 dB Peak SAR (extrapolated) = 0.092 W/kg

SAR (1 g) = 0.018 mW/g; SAR (10 g) = 0.00738 mW/g

Maximum value of SAR (measured) = 0.021 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Left Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: 802.11B; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2462 MHz; $\sigma = 2.05 \text{ mho/m}$; $\varepsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV2 - SN3019; ConvF(3.87, 3.87, 3.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

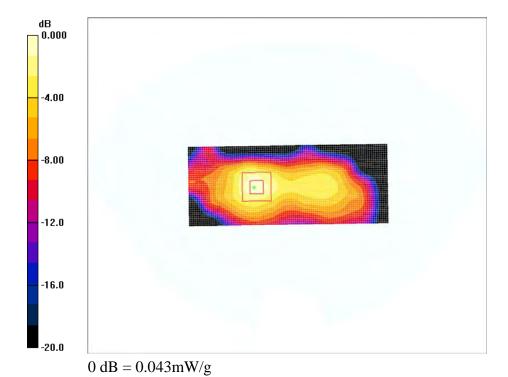
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Left Side to the Flat Phantom/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.038 mW/g

EUT 1.0cm Left Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.28 V/m; Power Drift = -0.666 dB Peak SAR (extrapolated) = 0.085 W/kg

SAR (1 g) = 0.036 mW/g; SAR (10 g) = 0.015 mW/gMaximum value of SAR (measured) = 0.043 mW/g



Test Laboratory: Bay Area Compliance Lab Corp. (BACL) **EUT 1.0cm Top Side to the Flat Phantom (Low Channel)**

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: 802.11B; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2412 MHz; $\sigma = 1.97$ mho/m; $\varepsilon_r = 50.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV2 - SN3019; ConvF(3.87, 3.87, 3.87); Calibrated: 8/25/2011

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn456; Calibrated: 3/16/2012

Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

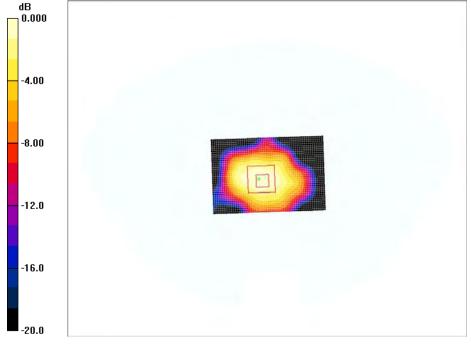
EUT 1.0cm Top Side to the Flat Phantom/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.034 mW/g

EUT 1.0cm Top Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.95 V/m; Power Drift = -0.114 dBPeak SAR (extrapolated) = 0.048 W/kg

SAR (1 g) = 0.026 mW/g; SAR (10 g) = 0.011 mW/g

Maximum value of SAR (measured) = 0.032 mW/g



0 dB = 0.032 mW/g

Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Top Side to the Flat Phantom (Middle Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: 802.11B; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2437 MHz; $\sigma = 2.01$ mho/m; $\varepsilon_r = 50.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(3.87, 3.87, 3.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

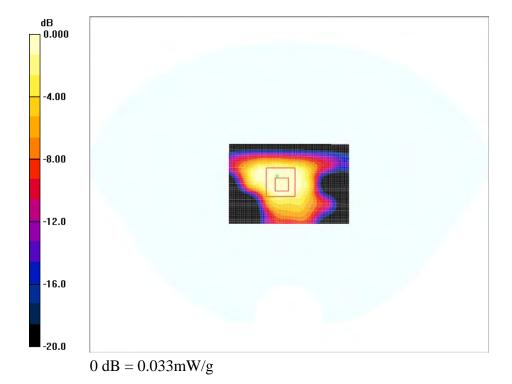
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Top Side to the Flat Phantom/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.044 mW/g

EUT 1.0cm Top Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.06 V/m; Power Drift = 0.429 dB Peak SAR (extrapolated) = 0.071 W/kg

SAR (1 g) = 0.028 mW/g; SAR (10 g) = 0.012 mW/gMaximum value of SAR (measured) = 0.033 mW/g



#99

Test Laboratory: Bay Area Compliance Lab Corp. (BACL) EUT 1.0cm Top Side to the Flat Phantom (High Channel)

DUT: Nexpro International Limitada; Type: Mobile phone; Serial: R1207245-1

Communication System: 802.11B; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2462 MHz; $\sigma = 2.05$ mho/m; $\varepsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(3.87, 3.87, 3.87); Calibrated: 8/25/2011

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn456; Calibrated: 3/16/2012

• Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032

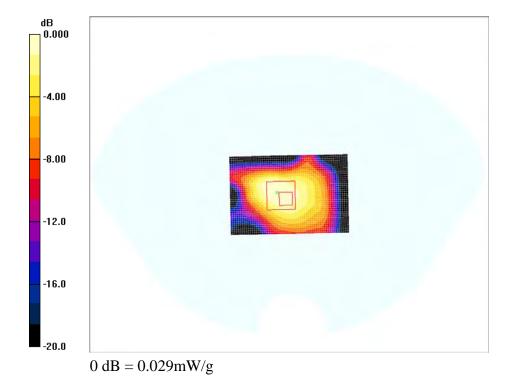
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EUT 1.0cm Top Side to the Flat Phantom/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.031 mW/g

EUT 1.0cm Top Side to the Flat Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.67 V/m; Power Drift = 0.182 dB Peak SAR (extrapolated) = 0.055 W/kg

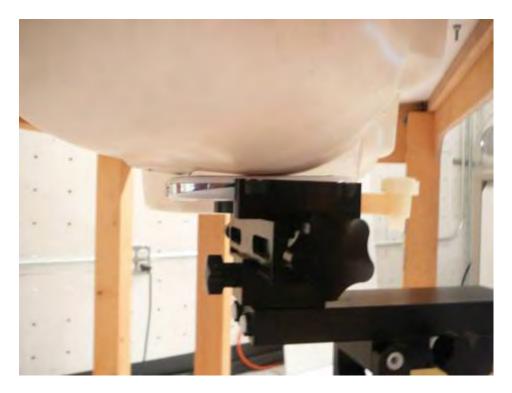
SAR (1 g) = 0.024 mW/g; SAR (10 g) = 0.011 mW/g Maximum value of SAR (measured) = 0.029 mW/g



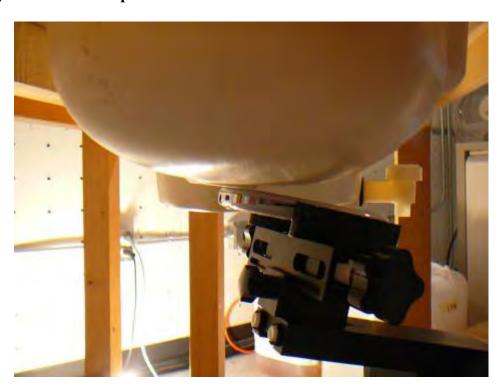
#100

17 APPENDIX F – TEST SETUP PHOTOS

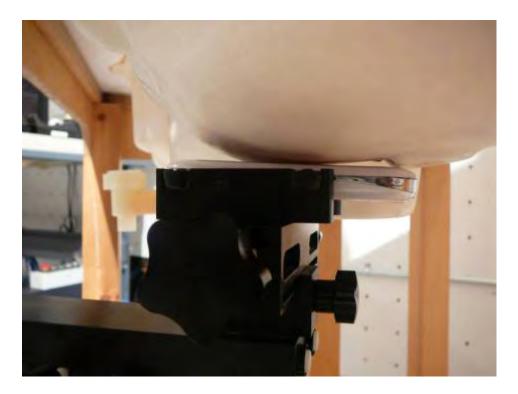
17.1 Right Head-Touch Setup Photo



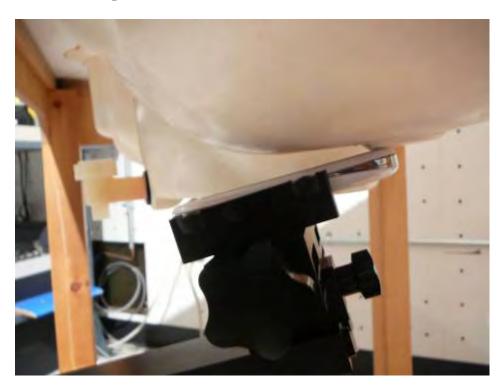
17.2 Right Head-Tilt Setup Photo



17.3 Left Head-Touch Setup Photo



17.4 Left Head-Tilt Setup Photo



17.5 1.0 cm Front Side to the flat phantom with Headset Setup Photo



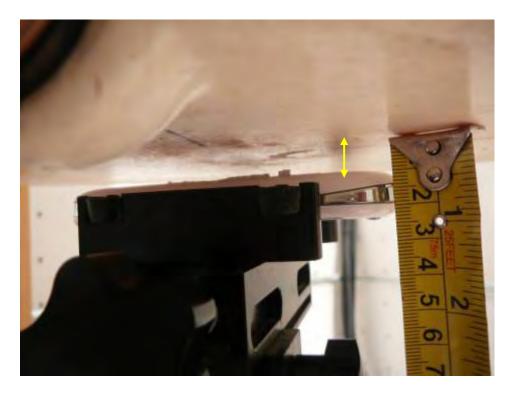
17.6 1.0 cm Back Side to the flat phantom with Headset Setup Photo



17.7 1.0 cm Front Side to the flat phantom Setup Photo



17.8 1.0 cm Back Side to the flat phantom Setup Photo



17.9 1.0 cm Left Side to the flat phantom Setup Photo



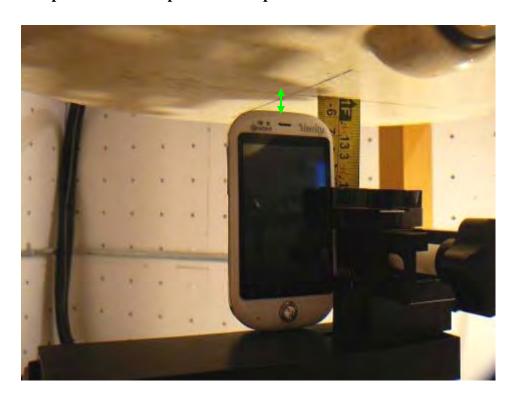
17.10 1.0 cm Right Side to the flat phantom Setup Photo



17.11 1.0 cm Bottom Side to the flat phantom Setup Photo



17.121.0 cm Top Side to the flat phantom Setup Photo



18 APPENDIX H – EUT PHOTOS

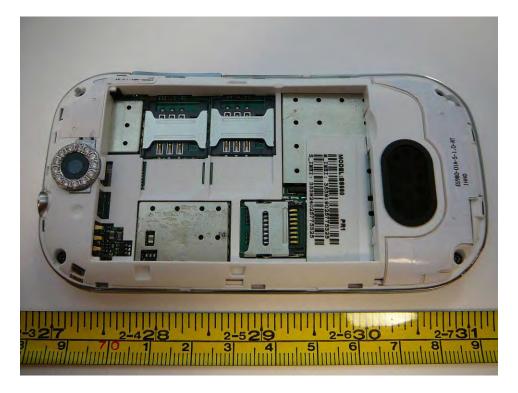
18.1 EUT – Front View



18.2 EUT – Bottom View



18.3 EUT – Battery Compartment View



18.4 EUT – Accessory Headset



19 APPENDIX H - INFORMATIVE REFERENCES

- [1] Federal Communications Commission, \Report and order: Guidelines for evaluating the environmental effects of radiofrequency radiation", Tech. Rep. FCC 96-326, FCC, Washington, D.C. 20554, 1996.
- [2] David L. Means Kwok Chan, Robert F. Cleveland, \Evaluating compliance with FCC guidelines for human exposure to radiofrequency electromagnetic fields", Tech. Rep., Federal Communication Commission, O_ce of Engineering & Technology, Washington, DC, 1997.
- [3] Thomas Schmid, Oliver Egger, and Niels Kuster, \Automated E-_eld scanning system for dosimetric assessments", IEEE Transactions on Microwave Theory and Techniques, vol. 44, pp. 105{113, Jan. 1996.
- [4] Niels Kuster, Ralph K.astle, and Thomas Schmid, \Dosimetric evaluation of mobile communications equipment with known precision", IEICE Transactions on Communications, vol. E80-B, no. 5, pp. 645{652, May 1997.
- [5] CENELEC, \Considerations for evaluating of human exposure to electromagnetic fields (EMFs) from mobile telecommunication equipment (MTE) in the frequency range 30MHz 6GHz", Tech. Rep., CENELEC, European Committee for Electrotechnical Standardization, Brussels, 1997.
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