

ShenZhen Electronic Product Quality Testing Center

CONFORMANCE TEST REPORT FOR HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SAR08-080

VERYKOOL USA INC.

GSM Dual Band GPRS Digital Mobile Phone

Type Name: i300

FCC ID: WA6I300

Hardware Version:

V1.3

Software Version:

KAAI300FM_VK_EN_FR_SP_90_724

Date of Issue:

2008-9-5









GENERAL SUMMARY

Product Name	i300	Development Stage	MP
Standard(s)	47CFR § 2.1093: Radiofrequency Radiation FCC OET Bulletin 65 (Edition 97-01), 3 Compliance with FCC Guidelines for Human Fields ANSI C95.1–1999: IEEE Standard for Exposure to Radio Frequency Electromagneti IEEE 1528–2003: Recommended Practice Specific Absorption Rate (SAR) in the Human Devices: Experimental Techniques.	Supplement C (Edition Exposure to Radiofred Safety Levels with to Fields, 3 kHz to 300 G for Determining the	on 01-01): Evaluating quency Electromagnetic Respect to Human GHz. Peak Spatial-Average
Conclusion	Localized Specific Absorption Rate (SAR) of measured in all cases requested by the rele report. Maximum localized SAR is below expecited in Clause 5.1 of this test report. General Judgment: Pass	vant standards cited in osure limits specified in	Clause 5.2 of this tes
Comment	TX Freq. Band: 824.20 MHz—848.80 MHz (CRX Freq. Band:869.20 MHz—893.80 MHz (CRX Freq. Band:869.20 MHz) (CRX Freq. Band	GSM) 1930.20 MHz —	
Tested Checked	by: Zhang Can Zhang Can by: Smart	Dates Sep 5. 20	5. 2028
Approved	Smart Li	Date: Sept.	5,2008



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1. GENERAL CONDITIONS

- 1.1 This report only refers to the item that has undergone the test.
- 1.2 This report standalone dose not constitute or imply by its own an approval of the product by the certification Bodies or competent Authorities.
- 1.3 This document is only valid if complete; no partial reproduction can be made without written approval of Shenzhen Electronic Product Quality Testing Center.
- 1.4 This report cannot be used partially or in full for publicity and/or promotional purposes without previous written approval of Shenzhen Electronic Product Quality Testing Center and the Accreditation Bodies, if it applies.



2. Administrative Date

2.1. Identification of the Responsible Testing Laboratory

Company Name: ShenZhen Electronic Product Quality Testing Center

Department: Testing Department

Address: Electronic Testing Building, ShaHe Road, NanShan District,

ShenZhen, P. R. China

Telephone: +86-755-26628676 **Fax**: +86-755-26627238

Responsible Test Lab

Managers:

Mr. Wu Li'an

2.2. Identification of the Responsible Testing Location(s)

Company Name: ShenZhen Electronic Product Quality Testing Center

Address: Electronic Testing Building, ShaHe Road, NanShan District,

ShenZhen, P. R. China

2.3. Organization Item

S.E.T Report No.: SAR08-080
S.E.T Project Leader: Mr. Li Sixiong

S.E.T Responsible for

Mr. Wu Li'an

accreditation scope:

Start of Testing: 2008-8-18 End of Testing: 2008-9-5

2.4.Identification of Applicant

Company Name: VERYKOOL USA INC.

Address: 4350 Executive Drive. Suite 100, San Diego, CA 92121, USA

Contact person: Sunny Choi Telephone: +1-858-373-1600

Fax: +1-858-373-1505

2.5.Identification of Manufacture

Company Name: SHENZHEN KONKA TELECOMMUNICATIONS TECHNOLOGY

CO., LTD

Address: NO.9008 ShenNan Road, Overseas Chinese Town, Shenzhen,

Guangdong, China

Contact person: -Telephone: -Fax: --

Notes: This data is based on the information by the applicant.



3. Equipment Under Test (EUT)

3.1.Identification of the Equipment under Test

Brand Name: verykool i300 **Type Name: Marking Name:** i300

GSM 850MHz (Low/Mid/High Channel:

824.2MHz,836.6MHz,848.8MHz)

Test frequency GSM 1900MHz (Low/Mid/High Channel:

1850.2MHz,1880MHz,1909.8MHz)

Development Stage

Identical Prototype

General description: Accessories Charger, Battery

Battery type Battery specification KLB65N167

Antenna type

650mAh 3.7V

Operation mode

Build inside

Call established

Modulation mode

GMSK

NOTE:

1. The EUT is a model of GSM Mobile Station ("MS" for short in this report) operating in GSM 850MHz and PCS 1900MHz band.

2. Please refer to Appendix C for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.

3.2.Identification of all used Test Sample of the Equipment under Test

EUT Code	IMEI	Hardware Version	Software Version
/	357630020000942	V1.3	KAAI300FM_VK_EN_FR_SP_90_724



4 OPERATIONAL CONDITIONS DURING TEST

4.1 Schematic Test Configuration

During SAR test, EUT is in Traffic Mode (Channel Allocated) at Normal Voltage Condition. A communication link is set up with a System Simulator (SS) by air link, and a call is established.

The TCH is allocated to 128, 190 and 251 respectively in the case of GSM 850 MHz, or to 512, 661 and 810 respectively in the case of GSM 850 MHz. The EUT is commanded to operate at maximum transmitting power.

The EUT shall use its internal transmitter. The antenna(s), battery and accessories shall be those specified by the manufacturer. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output. If a wireless link is used, the antenna connected to the output of the base station simulator shall be placed at least 50 cm away from the handset.

The signal transmitted by the simulator to the antenna feeding point shall be lower than the output power level of the handset by at least 35 dB.

4.2 SAR Measurement System

The SAR measurement system being used is the IndexSAR SARA2 system, which consists of a

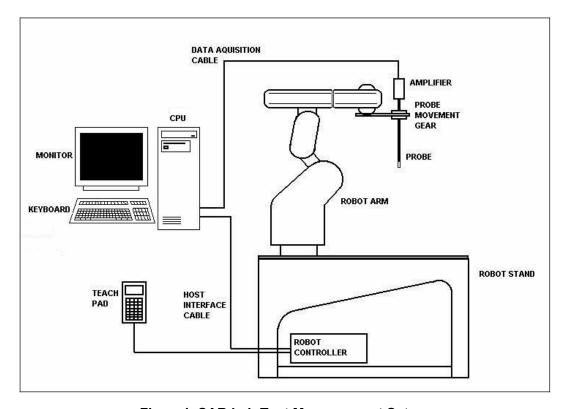


Figure 1. SAR Lab Test Measurement Set-up



Mitsubishi RV-E2 6-axis robot arm and controller, IndexSAR probe and amplifier and SAM phantom Head Shape. The system is controlled remotely from a PC, which contains the software to control the robot and data acquisition equipment. The software also displays the data obtained from test scans.

In operation, the system first does an area (2D) scan at a fixed depth within the liquid from the inside wall of the phantom. When the maximum SAR point has been found, the system will then carry out a 3D scan centred at that point to determine volume averaged SAR level.

4.2.1 Robot system specification

The robot is used to articulate the probe to programmed positions inside the phantom head to obtain the SAR readings from the DUT.



Robot and Stand

Type Mitsubishi Movemaster RV-2A / 6 axis vertical

articulated robot

Dimensions (robot) Height: 790mm (in home position)

Dimensions (robot stand) 1010L x 450W x 820H mm

Weight Approx. 36 kg
Position repeatability +/- 0.04mm

Drive Method AC servomotor

Expandability Extra axis expansion capability for probe

calibration applications E-Field probe



Robot Controller Unit

Type CR1 - 571

Dimensions 212W x 290D x 151H mm

Weight 8 kg

Power source single-phase 100 - 240 VAC

4.2.2 Probe and amplifier specification

IXP-050 Indexsar isotropic immersible SAR probe

The probes are constructed using three orthogonal dipole sensors arranged on an interlocking, triangular



prism core. The probes have built-in shielding against static charges and are contained within a PEEK cylindrical enclosure material at the tip (showed in figure 2). The system uses diode compression potential (DCP) to determine SAR values for different types of modulation. Crest factor is not used for determining SAR values. The DCP for different types of modulation is determined during the probe calibration procedure.

	E-filed Probe	
	Туре	Three orthogonal dipole sensors arranged on
		triangular, interlocking substrates
		Overall length: 350mm
		Tip length: 10mm
	Dimensions	Body diameter: 12mm
40		Tip diameter: 5mm
		Distance from probe tip to dipole centers: 2.5mm
	Interfacing	Lemo 6 pole latching connector for interfacing to high
		impedance amplifier
		+/- 0.5dB in brain liquids (rotation about probe axis)
	Isotropy	typically +/- 0.15dB
		+/- 0.5dB in brain liquids (rotation normal to probe axis)
	Calibration	Indexsar calibration in brain tissue simulating liquids at
	Calibration	frequency of 900MHz, 1800MHz and 1900MHz
	Dynamic Range	0.001W/kg to 100W/kg in liquid. Linearity +/- 0.2W/kg

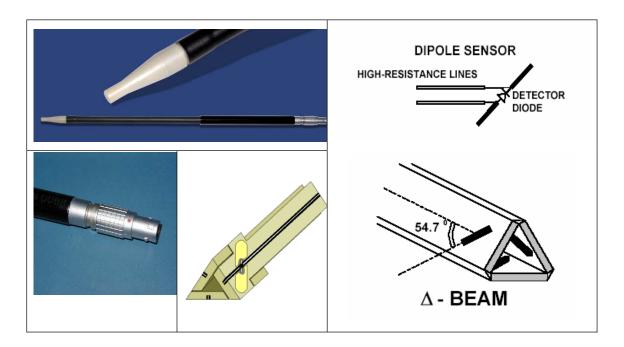


Figure 2. Specification and characterisation parameters of indexsar probe



IFA-010 Amplifier

The amplifier unit has a multi-pole connector to connect to the probe and a multiplexer selects between the 3-channel single-ended inputs. A 16-bit AtoD converter with programmable gain is used along with an on-board micro-controller with non-volatile firmware. Battery life is around 150 hours and data are transferred to the PC via 3m of duplex optical fibre and a self-powered RS232 to optical converter.



Probe Amplifier and PC Interface

Type High impedance inputs with 3 independent x,y,z sensor

channels giving simultaneous measurement data every 2ms. Reads true average of modulated signals without the need

for duty cycle corrections

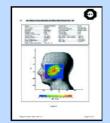
Ranges Software selectable of x1 to 63

Cable Optical cable with self-powered 9 way RS232 converter.

3m cable length supplied as standard.

Other lengths to order.

Power Requirements 2 x AAA batteries giving approximately 100 hours usage.



'Word' report format

The results of each frequency scan are presented in a Microsoft 'Word' document with all the necessary measurement parameters automatically tabulated. Users can customise the layout and in some cases language changes are possible.

4.2.3 Phantoms and simulant liquid

4.2.3.1 SAR head phantom (SAM)

The Indexsar SAM Upright Phantom is fabricated to the shape defined in these CAD files by Antennessa.



Head Phantom

Type 2 Upright SAM phantom

Dimensions Height: 320mm

Baseplate diameter: 275mm

Weight empty: 1.2 kg

filled: 7.2 kg

Wall thickness 2.0 mm ±0.2

Construction Low loss resin / Strengthened

saggital seam

It is mounted on the base table, which holds the robotic positioner. Both mechanical and laser-based

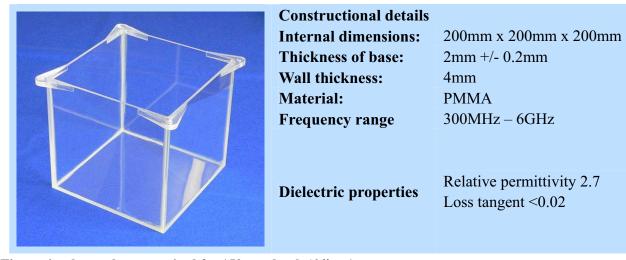


registration systems are utilised to register the phantom position in relationship to the robot co-ordinate system. In the SARA2 implementation, the SAM phantom is mounted on a supporting table made of low dielectric loss material, which includes mounting brackets for DUT positioners, dipole holders and (optionally) a shelf for supporting larger devices like laptop computers.

4.2.3.2 Box phantom

The box phantom used for body testing and for validation is manufactured from Perspex.

IXB - 070 Specification and characterisation parameters



Tissue-simulant volume required for 150mm depth (6 litres)

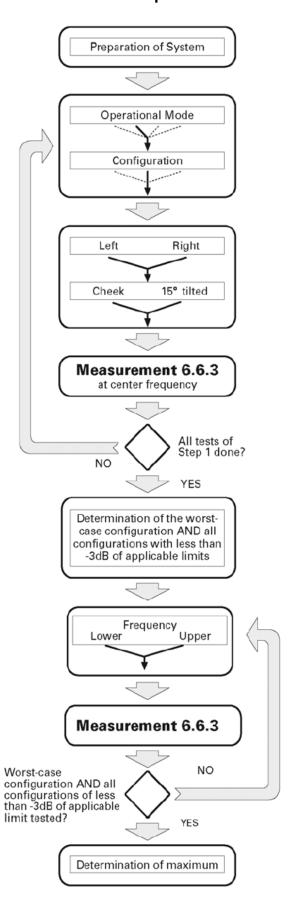
4.2.3.3 Simulant liquids

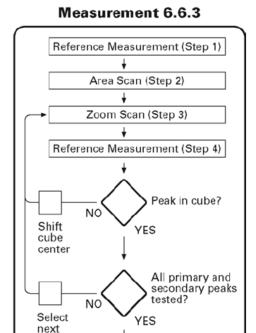
Simulant liquids that are used for testing at frequencies of GSM 850MHz, which are made mainly of sugar, salt and water solutions may be left in the phantoms. Approximately 7litres are needed for an upright head compared to about 27litres for a horizontal bath phantom.

Ingredients	Frequency Band				
(% by weight)	8:	50	19	1900	
Tissue Type	Head	Body	Head	Body	
Water	40.92	56.0	54.9	40.4	
Salt(NaCl)	1.48	0.76	0.18	0.5	
Sugar	56.5	41.76	0.0	58.0	
HEC	1	1.21	0.0	1.0	
Bacterial de	0.0	0.0	0.0	0.1	
DGBE	0.0	0.0	44.92	0.0	
Acticide SPX	0.1	0.27	0.0	0.0	
Dielectric Constant	41.44	52.99	39.9	54.0	
Conductivity (S/m)	0.99	1.12	1.42	1.45	



4.2.4 SAR measurement procedure





peak



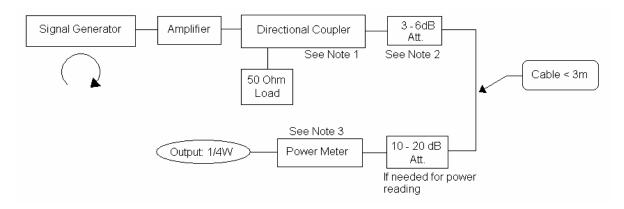
Channel	Left Right							
	Ch	eek	Т	ilt	Ch	eek	Т	ilt
	Retracted	Extended	Retracted	Extended	Retracted	Extended	Retracted	Extended
Mode 1:								
High			S2(-1.4dB)	S2(-0.4dB)			S2(-2.2dB)	S2(-1.4dB)
Middle	S1(-4dB)	S1(-4dB)	S1(-1.5dB)	S1(-0.5dB)	S1(-5dB)	S1(-5dB)	S1(-2.5dB)	S1(-1.5dB)
Low			S2(-1.3dB)	S2(-0.7dB)			S2(-2.7dB)	S2(-0.6dB)
Mode 2:								
High			S2(-2.7dB)	S2(-1.1dB)				
Middle	S1(-5dB)	S1(-5dB)	S1(-2.5dB)	S1(-1dB)	S1(-6dB)	S1(-6dB)	S1(-5dB)	S1(-5dB)
Low			S2(-2.2dB)	S2(-0.8dB)				

After an area scan has been done at a fixed distance of 8mm from the surface of the phantom on the source side, a 3D scan is set up around the location of the maximum spot SAR. First, a point within the scan area is visited by the probe and a SAR reading taken at the start of testing. At the end of testing, the probe is returned to the same point and a second reading is taken. Comparison between these start and end readings enables the power drift during measurement to be assessed.

Above is the scanning procedure flow chart and table from the IEEE p1528 standard. This is the procedure for which all compliant testing should be carried out to ensure that all variations of the device position and transmission behaviour are tested.

4.2.5 Validation testing using box phantoms

The following procedure, recommended for performing validation tests using box phantoms is based on the procedures described in the draft IEEE standard P1528. Setup according to the setup diagram below:



With the SG and Amp and with directional coupler in place, set up the source signal at the relevant

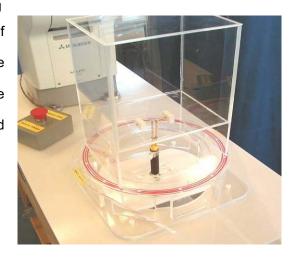


frequency and use a power meter to measure the power at the end of the SMA cable that you intend to connect to the balanced dipole. Adjust the SG to make this, say, 0.25W (24 dBm). If this level is too high to read directly with the power meter sensor, insert a calibrated attenuator (e.g. 10 or 20 dB) and make a suitable correction to the power meter reading.

- Note 1: In this method, the directional coupler is used for monitoring rather than setting the exact feed power level. If, however, the directional coupler is used for power measurement, you should check the frequency range and power rating of the coupler and measure the coupling factor (referred to output) at the test frequency using a VNA.
- Note 2: Remember that the use of a 3dB attenuator (as shown in Figure 8.1 of P1528) means that you need an RF amplifier of 2 times greater power for the same feed power. The other issue is the cable length. You might get up to 1dB of loss per meter of cable, so the cable length after the coupler needs to be quite short.
- Note 3: For the validation testing done using CW signals, most power meters are suitable. However, if you are measuring the output of a modulated signal from either a signal generator or a handset, you must ensure that the power meter correctly reads the modulated signals.

4.2.5.1 Setting up the box phantom for validation testing

The main purpose of the box phantom is for validation of the system. By placing the box phantom in place of the upright head, using the box phantom dipole holder the system can now be used to check that the probe and software are giving accurate readings.



4.2.5.2 Equipments and results of validation testing

Equipments:

name	Type and specification
Signal generator	SML02
Directional coupler	450MHz-3GHz
Amplifier	3W 502(10-2500MHz)
Reference dipole	IXD-090 antenna

Results:

Frequency Target value (1g)		Test value (1g)	
850MHz	10.8 W/kg	10.760 W/kg	10.468 W/kg
		(Head)	(Body)
1900MHz	39.7 W/kg	41.256 W/kg	40.508 W/kg
		(Head)	(Body)



4.2.6 SARA2 Interpolation and Extrapolation schemes

SARA2 software contains support for both 2D cubic B-spline interpolation as well as 3D cubic B-spline interpolation. In addition, for extrapolation purposes, a general n-th order polynomial fitting routine is implemented following a singular value decomposition algorithm. A 4th order polynomial fit is used by default for data extrapolation, but a linear-logarithmic fitting function can be selected as an option. The polynomial fitting procedures have been tested by comparing the fitting coefficients generated by the SARA2 procedures with those obtained using the polynomial fit functions of Microsoft Excel when applied to the same test input data.

4.2.7 Interpolation of 2D area scan

The 2D cubic B-spline interpolation is used after the initial area scan at fixed distance from the phantom shell wall. The initial scan data are collected with approx. 10mm spatial resolution and spline interpolation is used to find the location of the local maximum to within a 1mm resolution for positioning the subsequent 3D scanning.

4.2.8Extrapolation of 3D scan

For the 3D scan, data are collected on a spatially regular 3D grid having (by default) 6.4 mm steps in the lateral dimensions and 3.5 mm steps in the depth direction (away from the source). SARA2 enables full control over the selection of alternative step sizes in all directions.

The digitised shape of the head is available to the SARA2 software, which decides which points in the 3D array are sufficiently well within the shell wall to be 'visited' by the SAR probe. After the data collection, the data are extrapolated in the depth direction to assign values to points in the 3D array closer to the shell wall. A notional extrapolation value is also assigned to the first point outside the shell wall so that subsequent interpolation schemes will be applicable right up to the shell wall boundary.

4.2.9 Interpolation of 3D scan and volume averaging

The procedure used for defining the shape of the volumes used for SAR averaging in the SARA2 software follow the method of adapting the surface of the 'cube' to conform with the curved inner surface of the phantom. This is called, here, the conformal scheme.

For each row of data in the depth direction, the data are extrapolated and interpolated to less than 1mm spacing and average values are calculated from the phantom surface for the row of data over distances corresponding to the requisite depth for 10g and 1g cubes. This results in two 2D arrays of data, which are then cubic B-spline interpolated to sub mm lateral resolution. A search routine then moves an



averaging square around through the 2D array and records the maximum value of the corresponding 1g and 10g volume averages. For the definition of the surface in this procedure, the digitized position of the head shell surface is used for measurement in head-shaped phantoms. For measurements in rectangular, box phantoms, the distance between the phantom wall and the closest set of gridded data points is entered into the software. For measurements in box-shaped phantoms, this distance is under the control of the user. The effective distance must be greater than 2.5mm as this is the tip-sensor distance and to avoid interface proximity effects, it should be at least 5mm. A value of 6 or 8mm is recommended. This distance is called **dbe**.

For automated measurements inside the head, the distance cannot be less than 2.5mm, which is the radius of the probe tip and to avoid interface proximity effects, a minimum clearance distance of x mm is retained. The actual value of dbe will vary from point to point depending upon how the spatially regular 3D grid points fit within the shell. The greatest separation is when a grid point is just not visited due to the probe tip dimensions. In this case the distance could be as large as the step-size plus the minimum clearance distance (i.e with x=5 and a step size of 3.5, dbe will be between 3.5 and 8.5mm).

The default step size (dstep) used is 3.5mm, but this is under user-control. The compromise is with time of scan, so it is not practical to make it much smaller or scan times become long and power-drop influences become larger.

The robot positioning system specification for the repeatability of the positioning (dss) is +/- 0.04mm. The phantom shell is made by an industrial moulding process from the CAD files of the SAM shape, with both internal and external moulds. For the upright phantoms, the external shape is subsequently digitized on a Mitutoyo CMM machine (Euro an ultrasonic sensor indicate that the shell thickness (dph) away from the ear is 2.0 +/- 0.1mm. The ultrasonic measurements were calibrated using additional mechanical measurements on available cut surfaces of the phantom shells. See support document IXS-020x. For the upright phantom, the alignment is based upon registration of the rotation axis of the phantom on its 253mm diameter baseplate bearing and the position of the probe axis when commanded to go to the axial position. A laser alignment tool is provided (procedure detailed elsewhere). This enables the registration of the phantom tip (dmis) to be assured to within approx. 0.2mm. This alignment is done with reference to the actual probe tip after installation and probe alignment. The rotational positioning of the phantom is variable – offering advantages for special studies, but locating pins ensure accurate repositioning at the principal positions (LH and RH ears).



4.2.10 Probe anisotropy and boundary proximity influence correction software (Virtual Probe Miniaturization VPM software)

Indexsar Report IXS0223 provides a background to the factors affecting measurements at high frequencies when using SAR probes of size 8 – 5mm tip diameter. Although the Indexsar probes are at the smaller end of this range, SAR probes are not isotropic in 5GHz phantom field gradients and ad 1) At >5GHz, the SAR field decays to 1/e of its value within 3-4mm of the surface of a phantom with a source adjacent. So, measurements are significantly affected by small errors in the separation distances employed between the probe and the phantom surface. The distance between the probe tip and the plane of the sensors should be allowed for using the same value as that declared in the probe calibration document. Distances between the probe tip and phantom surface should be measured accurately to 0.1mm. The best way to assure this is to use the robot to position the probe in light contact with the phantom wall and then to withdraw the probe by the selected amount under robot control.

- 2) The preferred test geometry at 5GHz is for testing at the bottom of an open phantom. If tests at the side of a phantom are performed, it will be necessary to apply VPM corrections as described below. In either case, careful monitoring of probe spacing from the phantom is required. Probe isotropy is improved for measuring fields polarized either normal to or parallel to the probe axis. If the source polarization is known, this arrangement should be established, if possible.
- 3) The probe calibration factors including boundary correction terms should be carefully entered from the calibration document. The probe calibration factors require that the probe be oriented in a known rotational position. The red spot on the Indexsar probe should be aligned facing away from the robot arm.
- 4) The latest SARA2 software (VPM editions) contain support for correcting for probe anisotropy in strong field gradients and include a procedure for correcting for boundary proximity influences. As noted above, the probe has to be oriented in a given rotational position and some familiarity with the new measurement procedures is necessary. The calculations can be performed either with or without the extended correction schemes applied.
- 5) If boundary corrections are used, it may be preferable to go rather closer to the phantom surface than is usually recommended and to perform scans using small steps between the measurement planes so that good data on the SAR profiles are collected within the first 10mm of the phantom depth.



5 CHARACTERISTICS OF THE TEST

5.1 Applicable Limit Regulations

47CFR § 2.1093: Radiofrequency Radiation Exposure Evaluation: Portable Devices

FCC OET Bulletin 65(Edition 97-01), Supplement C(Edition 01-01): Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

It specifies the maximum exposure limit of **1.6 W/kg** as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

5.2 Applicable Measurement Standards

IEEE 1528–2003: Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques.

They specify the measurement method for demonstration of compliance with the SAR limits for such equipments.

6 LABORATORY ENVIRONMENT

Table: The Ambient Conditions during SAR Test

Temperature	Min. = 15 ° C, Max. = 30 ° C			
Relative humidity	Min. = 30%, Max. = 70%			
Ground system resistance	< 0.5 Ω			
Ambient noise is checked and found very low and in compliance with requirement of standards.				
Reflection of surrounding objects is minimized and in compliance with requirement of standards.				



7 TEST RESULTS

7.1 Dielectric Performance

The measured 1-gram averaged SAR values of the device against the head and the body are provided in Tables 1 and 2 respectively. The humidity and ambient temperature of test facility were 54% ~60% and 23.0 °C ~23.8°C respectively. The SAM head phantom (SN 0381 SH) were full of the head tissue simulating liquid. The depth of the body tissue was 15.1cm. The distance between the back of the device and the bottom of the flat phantom is 1.5cm (taking into account of the IEEE 1528 and the place of the antenna). A base station simulator was used to control the device during the SAR measurement. The phone was supplied with full-charged battery for each measurement.

For head measurement, the device was tested at the lowest, middle and highest frequencies in the transmit band.

Table 1: Dielectric Performance of Head Tissue Simulating Liquid

Temperature: 23.0~23.8°C, humidity: 54~60%.				
/	Frequency	Permittivity ε	Conductivity σ (S/m)	
Target value	1900MHz	40.0	1.40	
Validation value	1900MHz	40.23	1.411	
Target value	850 MHZ	41.5	0.90	
Validation value (Sep 1)	850 MHZ	41.62	0.891	

For body-worn measurements, the device was tested against flat phantom representing the user body. Under measurement phone was put on in the belt holder.

Table 2: Dielectric Performance of Body Tissue Simulating Liquid

Temperature: 23.0~23.8°C, humidity: 54~60%.				
/	Frequency	Permittivity ε	Conductivity σ (S/m)	
Target value	1900MHz	53.3	1.52	
Validation value	1900MHz	53.16	1.542	
(Sep 2)				
Target value	850 MHz	55.0	0.97	
Validation value (Sep 1)	850 MHz	55.37	0.981	



7.2 Summary of Measurement Results (GSM 850MHz and GSM 1900 MHz Band)

Table 3: SAR Values (GSM 850 MHz Band), Measured against the head.

Temperature: 23.0 °C ~23.8°C, humidity: 54~59%.			
Limit of CAD (M/kg)	1 g Average		
Limit of SAR (W/kg)	1	.6	
	Measurement Result (W/kg)		
Test Case	1 g Average	Power level	
	(W/kg)	(dBm)	
Left head, Touch cheek, Bottom Channel	0.919	31.28	
Left head, Touch cheek, Mid Channel	0.989	31.56	
Left head, Touch cheek, Top Channel	0.611	32.04	
Left head, Tilt 15 Degree, Bottom Channel	0.352	31.28	
Left head, Tilt 15 Degree, Mid Channel	0.455	31.56	
Left head, Tilt 15 Degree, Top Channel	0.271	32.04	
Right head, Touch cheek, Bottom Channel	0.540	31.28	
Right head, Touch cheek, Mid Channel	0.626	31.56	
Right head, Touch cheek, Top Channel	0.398	32.04	
Right head, Tilt 15 Degree, Bottom Channel	0.207	31.28	
Right head, Tilt 15 Degree, Mid Channel	0.288	31.56	
Right head, Tilt 15 Degree, Top Channel	0.136	32.04	
Left head, Touch cheek, Mid Channel with GPRS	1.542	31.56	

Table 4: SAR Values (GSM 1900MHz Band), Measured against the head.

Temperature: 23.0 °C ~23.8°C, humidity: 54~59%.			
Limit of CAD (M/kg)	1 g Average		
Limit of SAR (W/kg)	1.	6	
	Measurement Result (W/kg)		
Test Case	1 g Average	Power level	
	(W/kg)	(dBm)	
Left head, Touch cheek, Bottom Channel	0.265	28.8	
Left head, Touch cheek, Mid Channel	0.402	28.68	
Left head, Touch cheek, Top Channel	0.304	28.67	
Left head, Tilt 15 Degree, Bottom Channel	0.041	28.8	
Left head, Tilt 15 Degree, Mid Channel	0.085	28.68	
Left head, Tilt 15 Degree, Top Channel	0.062	28.67	
Right head, Touch cheek, Bottom Channel	0.222	28.8	
Right head, Touch cheek, Mid Channel	0.278	28.68	
Right head, Touch cheek, Top Channel	0.175	28.67	
Right head, Tilt 15 Degree, Bottom Channel	0.044	28.8	
Right head, Tilt 15 Degree, Mid Channel	0.123	28.68	



Right head, Tilt 15 Degree, Top Channel	0.078	28.67	
---	-------	-------	--

Table 5: SAR Values (GSM 850 MHz Band), Measured against the body

Temperature: 23.0 °C ~23.8°C, humidity: 48~58%.					
Limit of SAP (M/kg)	1 g A	1 g Average			
Limit of SAR (W/kg)	1	1.6			
	Measurement	Measurement Result (W/kg)			
Test Case	1 g Average	Power level			
	(W/kg)	(dBm)			
Side, Bottom Channel	0.772	31.28			
Side, Mid Channel	0.866	31.56			
Side , Top Channel	0.876	32.04			
Side , Top Channel with headphone	0.808	32.04			

Table 6: SAR Values (GSM 1900MHZ Band), Measured against the body

Temperature: 23.0~23.9° C, humidity: 55~62%.					
Limit of SAD (M/kg)	1 g A	1 g Average			
Limit of SAR (W/kg)	1.6				
	Measurement	Result (W/kg)			
Test Case	1 g Average	Power level			
	(W/kg)	(dBm)			
Side, Bottom frequency	0.425	28.8			
Side, Mid frequency	0.327	28.68			
Side , Top frequency	0.243	28.67			
Side, Bottom frequency with headphone	0.485	28.8			

Note: The depth of the body tissue was 15.1cm. The distance between the back of the device and the bottom of the flat phantom is 1.5cm (taking into account of the IEEE 1528 and the place of the antenna).

7.3 Conclusion

Localized Specific Absorption Rate (SAR) of this portable wireless device has been measured in all cases requested by the relevant standards cited in Clause 5.2 of this report. Maximum localized SAR is **below** exposure limits specified in the relevant standards cited in Clause 5.1 of this test report.



8 Measurement Uncertainty

No	Uncertainty Component	Туре	Uncertainty Value (%)	Probability Distribution	k	Ci	Standard Uncertainty (%) <i>ui</i> (%)	Degree of freedom
	Measurement System	•				ı		
1	-Probe Calibration	В	3.6	N	1	1	3.60	∞
2	—Axial isotropy	В	4.23	R	$\sqrt{3}$	$\sqrt{1-cp}$	0.00	∞
3	—Hemispherical Isotropy	В	10.7	R	$\sqrt{3}$	√cp	6.18	∞
4	-Boundary Effect	В	1.7	R	$\sqrt{3}$	1	0.98	∞
5	—Linearity	В	2.98	R	$\sqrt{3}$	1	1.69	∞
6	—System Detection Limits	В	0.00	R	$\sqrt{3}$	1	0.00	∞
7	-Readout Electronics	В	0.00	N	1	1	0.00	∞
8	Response Time	В	0.00	R	$\sqrt{3}$	1	0.00	∞
9	-Integration Time	В	0.00	R	$\sqrt{3}$	1	0.00	∞
10	RF Ambient Conditions	В	0.00	R	$\sqrt{3}$	1	0.00	∞
11	-Probe Position Mechanical tolerance	В	1.14	R	$\sqrt{3}$	1	0.33	∞
12	-Probe Position with respect to Phantom Shell	В	2.86	R	$\sqrt{3}$	1	0.83	∞
13	-Extrapolation, Interpolation and Integration Algorithms for Max. SAR evaluation	В	3.6	R	$\sqrt{3}$	1	2.08	∞
	Uncertainties of the DUT							
14	-Position of the DUT	А	0.00	N	1	1	0.00	0
15	-Holder of the DUT	Α	0.00	N	1	1	0.00	0
16	Output Power Variation – SAR drift measurement	В	5.0	R	$\sqrt{3}$	1	2.89	∞



No.SAR08-080

	Phantom and Tissue Parameters							
17	—Phantom Uncertainty(shape and thickness tolerances)	В	1.43	R	$\sqrt{3}$	1	0.83	8
18	-Liquid Conductivity Target - tolerance	В	5.0	R	$\sqrt{3}$	0.7	2.02	8
19	Liquid Conductivity – measurement Uncertainty)	В	2.0	R	$\sqrt{3}$	0.7	0.81	8
20	-Liquid Permittivity Target tolerance	В	5.0	R	$\sqrt{3}$	0.6	1.73	8
21	Liquid Permittivity – measurement uncertainty	В	1.0	R	$\sqrt{3}$	0.6	0.35	8
Combined Standard Uncertainty RSS		RSS			±8.95%			
Expanded uncertainty (Confidence interval of 95 %)				K= 2.003935			±17.9%	

9 MAIN TEST INSTRUMENTS

No.	EQUIPMENT	TYPE	Due Date
1	E-Field SAR Probe	IXP-050 (SN 0201)	2009-04-26
2	Six-axis AC Servo industrial robot	RV-2A (SN AN406018)	2009-04-26
3	Mobile Phone Tester	CMU200	2009-04-26
4	System Validation Dipole 800/835MHZ	IXD-090 (SN 0093)	2009-04-26
5	System Validation Dipole 1900MHZ	IXD-080 (SN 0112)	2009-04-26
6	Probe Amplifier and PC Interface	IFA-010 (SN 0027)	2009-04-26
7	Box Phantom	IXB-070	2009-04-26



ANNEX A

of

ShenZhen Electronic Product Quality Testing Center

CONFORMANCE TEST REPORT FOR HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SAR08-080

VERYKOOL USA INC.

i300

Accreditation Certificate

This Annex consists of 2 pages Date of Report: 2008-9-5













China National Accreditation Service for Conformity Assessment

LABORATORY ACCREDITATION CERTIFICATE

(No. CNAS L1659)

China National Accreditation Service for Conformity Assessment has accredited

Shenzhen Electronic Product Quality Testing Center (CQCS Testing Co. Ltd.)

Electronic Testing Building Wenguang Road, Shahe West, Xili Town, Nanshan

District, Shenzhen, Guangdong, China

to ISO/IEC 17025:1999 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing and calibration.

The scope of accreditation is detailed in the attached schedule bearing the same accreditation number as above. The schedule forms an integral part of this certificate.

Date of Issue: 2007-01-17
Date of Expiry: 2009-10-08

Date of Initial Accreditation: 1999-08-03

为学

Signed on behalf of China National Accreditation Service for Conformity Assessment

China National Accreditation Service for Conformity Assessment(CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNCA) to operate the national accreditation systems for conformity assessment. CNAS is the signatory to International Laboratory Accreditation Cooperation Multilateral Recognition Arrangement (ILAC MRA), and the signatory to Asia Pacific Laboratory Accreditation Cooperation Multilateral Recognition Arrangement (APLAC MRA).



ANNEX B

of

ShenZhen Electronic Product Quality Testing Center

CONFORMANCE TEST REPORT FOR HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SAR08-080

VERYKOOL USA INC.

GSM Dual Band GPRS Digital Mobile Phone

Type Name: i300

Hardware Version: V1.3

Software Version: KAAI300FM_VK_EN_FR_SP_90_724

TEST LAYOUT

This Annex consists of 5 pages Date of Report: 2008-9-5











Fig.1 SARA2 System Test Layout

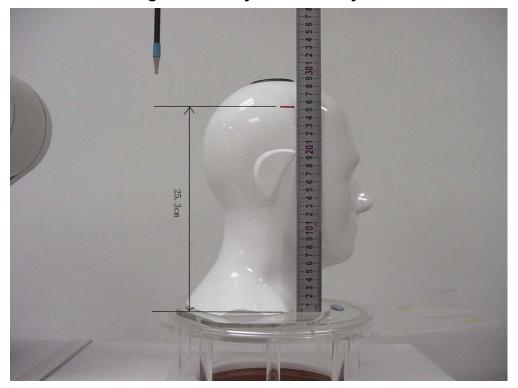


Fig.2 The depth of head tissue in SAM





Fig.3 EUT Left Head Touch Cheek Position



Fig.4 EUT Left Head Tilt15 Position





Fig.5 EUT Right Head Touch Cheek Position



Fig.6 EUT Right Head Tilt15 Position









Fig.8 the depth of body tissue





Fig.9 Side Position

Fig.10 Side Position with headphone



ANNEX C

of

ShenZhen Electronic Product Quality Testing Center

CONFORMANCE TEST REPORT FOR HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SAR08-080

VERYKOOL USA INC.

GSM Dual Band GPRS Digital Mobile Phone

Type Name: i300

Hardware Version: V1.3

Software Version: KA

KAAI300FM_VK_EN_FR_SP_90_724

Sample Photographs

This Annex consists of 4 pages Date of Report: 2008-9-5









1. Photograph of the Equipment under Test

1.1. Appearance







1.2 Inside

























ANNEX D

of

ShenZhen Electronic Product Quality Testing Center

CONFORMANCE TEST REPORT FOR **HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS**

SAR08-080

VERYKOOL USA INC.

GSM Dual Band GPRS Digital Mobile Phone

Type Name: I300

Hardware Version:

V1.3

Software Version:

KAAI300FM_VK_EN_FR_SP_90_724

Graph Test Results

This Annex consists of 32 pages Date of Report: 2008-9-5



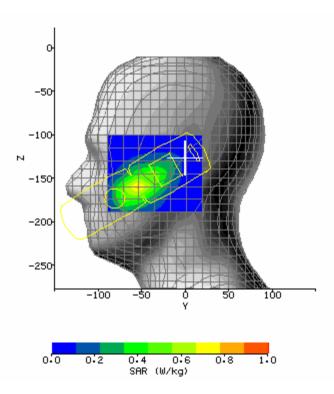






SAR Test GSM 850 LH_TouchCheek (Bottom Channel)

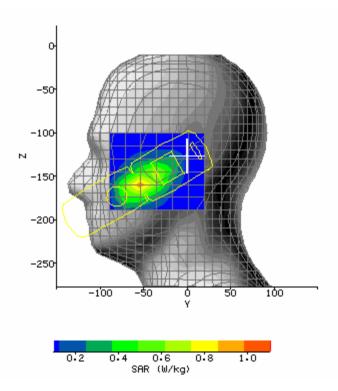
Custom I coffman	SARA2 / 2.54 VPM	Innut Davier Drift.	0.01dB
System / software:	SARAZ / Z.54 VPIVI	Input Power Drift:	0.010B
Date / Time:	2008-9-1 9:03:57	DUT Battery Model/No:	
Filename:	I300_GSM850_LH_TO	Probe Serial Number:	0201
	UCHCHEEK_B.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	41.62
Relative Humidity:	55%	Conductivity:	.891
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	-58.67 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-160.00 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	33.40 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.919 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.542 W/kg
Conversion Factors:	.288 / .288 / .288	SAR Start:	0.463 W/kg
Type of Modulation:	GMSK	SAR End:	0.467 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	0.75 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test GSM 850 LH_TouchCheek (Middle Channel)

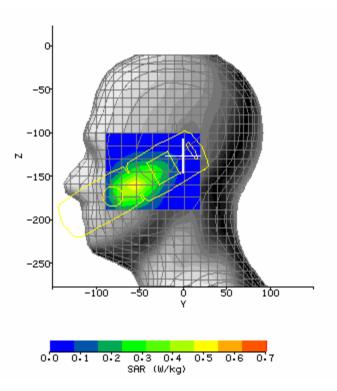
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.01dB
Date / Time:	2008-9-1 9:14:43	DUT Battery Model/No:	0.0.1.0.2
		-	0004
Filename:	I300_GSM850_LH_TO	Probe Serial Number:	0201
	UCHCHEEK_M.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	41.62
Relative Humidity:	55%	Conductivity:	.891
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	-58.67 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-165.33 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	34.10 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.989 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.606 W/kg
Conversion Factors:	.288 / .288 / .288	SAR Start:	0.524 W/kg
Type of Modulation:	GMSK	SAR End:	0.514 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-1.25 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test GSM 850 LH_TouchCheek (Top Channel)

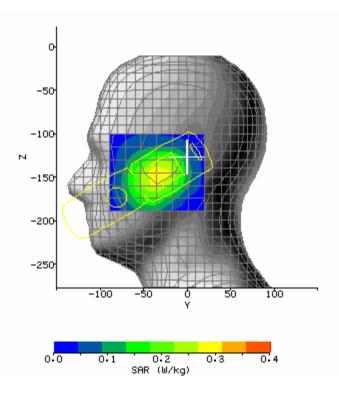
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.01dB
Date / Time:	2008-9-1 10:05:49	- 	0.0.00
		DUT Battery Model/No:	
Filename:	1300_GSM850_LH_TO	Probe Serial Number:	0201
	UCHCHEEK_T.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	41.62
Relative Humidity:	55%	Conductivity:	.891
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	-55.17 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-166.83 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	27.14 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.611 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.368 W/kg
Conversion Factors:	.288 / .288 / .288	SAR Start:	0.342 W/kg
Type of Modulation:	GMSK	SAR End:	0.341 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-0.93 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test GSM 850 LH_Tilt15 (Bottom Channel)

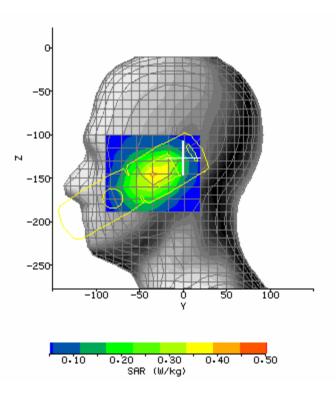
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.02dB
Date / Time:	2008-9-1 9:38:39	DUT Battery Model/No:	-
		-	0204
Filename:	I300_GSM850_LH_TIL	Probe Serial Number:	0201
	T15_B.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	41.62
Relative Humidity:	55%	Conductivity:	.891
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	-27.83 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-148.00 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	20.04 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.352 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.242 W/kg
Conversion Factors:	.288 / .288 / .288	SAR Start:	0.194 W/kg
Type of Modulation:	GMSK	SAR End:	0.198 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	2.44 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test GSM 850 LH_Tilt15 (Middle Channel)

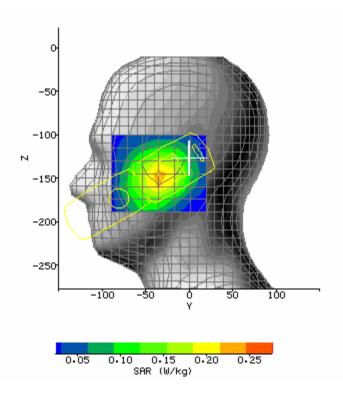
Countries I and the countries	CADAO / O FA VOM	Innert Danier Deiffe	0.02dB
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	U.U20B
Date / Time:	2008-9-1 9:26:04	DUT Battery Model/No:	
Filename:	I300_GSM850_LH_TIL	Probe Serial Number:	0201
	T15_M.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	41.62
Relative Humidity:	55%	Conductivity:	.891
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	-26.00 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-146.50 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	22.92 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.455 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.309 W/kg
Conversion Factors:	.288 / .288 / .288	SAR Start:	0.260 W/kg
Type of Modulation:	GMSK	SAR End:	0.255 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-2.06 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test GSM 850 LH_Tilt15 (Top Channel)

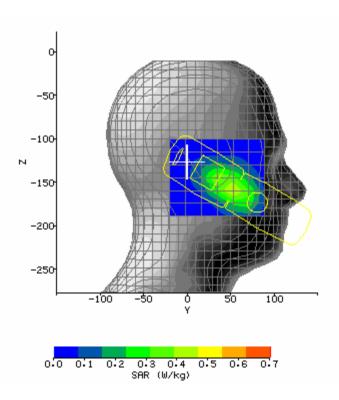
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.01dB
Date / Time:	2008-9-1 9:50:00	DUT Battery Model/No:	
Filename:	I300_GSM850_LH_TIL T15_T.txt	Probe Serial Number:	0201
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	41.62
Relative Humidity:	55%	Conductivity:	.891
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	-27.83 mm
DUT Position:	HEAD	Max SAR Z-axis Location:	-149.50 mm
Antenna Configuration:	BUILD INSIDE	Max E Field:	17.57 V/m
Test Frequency:	850MHz	SAR 1g:	0.271 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.187 W/kg
Conversion Factors:	.288 / .288 / .288	SAR Start:	0.165 W/kg
Type of Modulation:	GMSK	SAR End:	0.157 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-1.76 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test GSM 850 RH_TouchCheek (Bottom Channel)

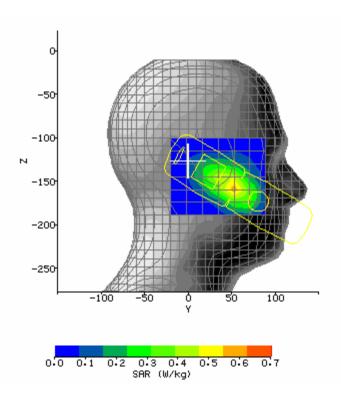
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.00dB
Date / Time:	2008-9-1 10:25:26	DUT Battery Model/No:	
Filename:	I300_GSM850_RH_TO	Probe Serial Number:	0201
	UCHCHEEK_B.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	41.62
Relative Humidity:	55%	Conductivity:	.891
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis	62.17 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-162.33 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	26.20 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.540 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.362 W/kg
Conversion Factors:	.288 / .288 / .288	SAR Start:	0.306 W/kg
Type of Modulation:	GMSK	SAR End:	0.305 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-0.10 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test GSM 850 RH_TouchCheek (Middle Channel)

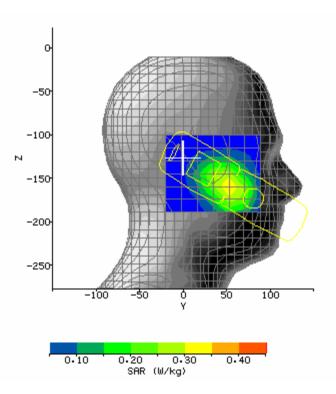
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.00dB
Date / Time:	2008-9-1 10:36:05	DUT Battery Model/No:	
Filename:	I300 GSM850 RH TO	Probe Serial Number:	0201
	UCHCHEEK_M.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	41.62
Relative Humidity:	55%	Conductivity:	.891
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis	51.50 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-155.50 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	27.82 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.626 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.428 W/kg
Conversion Factors:	.288 / .288 / .288	SAR Start:	0.373 W/kg
Type of Modulation:	GMSK	SAR End:	0.373 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	0.00 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test GSM 850 RH_TouchCheek (Top Channel)

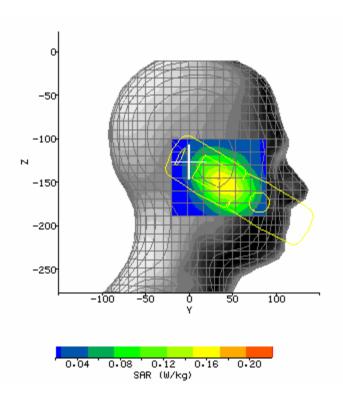
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.02dB
		- 	0.0200
Date / Time:	2008-9-1 10:03:01	DUT Battery Model/No:	
Filename:	I300_GSM850_RH_TO	Probe Serial Number:	0201
	UCHCHEEK_T.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	41.62
Relative Humidity:	55%	Conductivity:	.891
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis	53.33 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-160.00 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	22.15 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.398 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.273 W/kg
Conversion Factors:	.288 / .288 / .288	SAR Start:	0.230 W/kg
Type of Modulation:	GMSK	SAR End:	0.223 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-2.77 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test GSM 850 RH_Tilt15 (Bottom Channel)

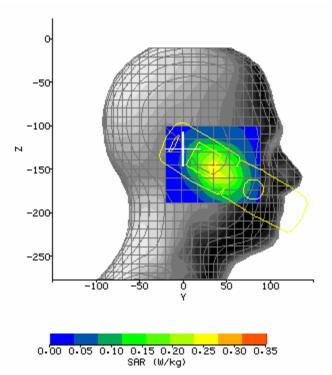
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.01dB
Date / Time:	2008-9-1 10:58:57	DUT Battery Model/No:	0.0.1.0.2
		-	
Filename:	I300_GSM850_RH_TIL	Probe Serial Number:	0201
	T15_B.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	41.62
Relative Humidity:	55%	Conductivity:	.891
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis	40.50 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-151.00 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	15.08 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.207 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.141 W/kg
Conversion Factors:	.288 / .288 / .288	SAR Start:	0.116 W/kg
Type of Modulation:	GMSK	SAR End:	0.114 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-1.85 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test GSM 850 RH_Tilt15 (Middle Channel)

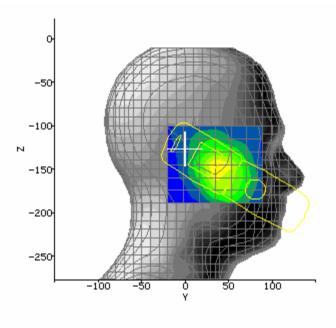
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.01dB
Date / Time:	2008-9-1 10:47:47	DUT Battery Model/No:	
Filename:	I300_GSM850_RH_TIL	Probe Serial Number:	0201
	T15_M.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	41.62
Relative Humidity:	55%	Conductivity:	.891
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis	38.67 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-156.33 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	18.63 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.288 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.204 W/kg
Conversion Factors:	.288 / .288 / .288	SAR Start:	0.166 W/kg
Type of Modulation:	GMSK	SAR End:	0.170 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	1.90 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test GSM 850 RH_Tilt15 (Top Channel)

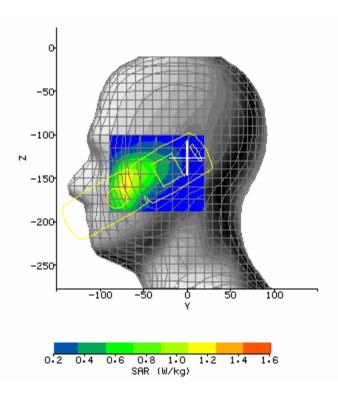
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.02dB
Date / Time:	2008-9-1 11:09:52	- 	0.0245
Date / Time:	2008-9-1 11:09:52	DUT Battery Model/No:	
Filename:	I300_GSM850_RH_TIL	Probe Serial Number:	0201
	T15_T.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	41.62
Relative Humidity:	55%	Conductivity:	.891
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis	35.17 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-154.83 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	12.57 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.136 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.097 W/kg
Conversion Factors:	.288 / .288 / .288	SAR Start:	0.080 W/kg
Type of Modulation:	GMSK	SAR End:	0.082 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	2.47 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test GSM 850 LH_TouchCheek (Mid Channel WITH GPRS)

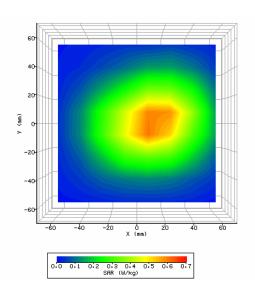
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.01dB
Date / Time:	2008-9-1 11:33:07	DUT Battery Model/No:	
Filename:	i300_GSM850_LH_TO	Probe Serial Number:	0201
	UCHCHEEK_M_GPRS.		
	txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	41.62
Relative Humidity:	54%	Conductivity:	.891
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	-66.17 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-154.00 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	42.04 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	1.542 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	1.141 W/kg
Conversion Factors:	.288 / .288 / .288	SAR Start:	0.870 W/kg
Type of Modulation:	GMSK	SAR End:	0.853 W/kg
Modn. Duty Cycle:	2	SAR Drift during Scan:	-1.95 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4

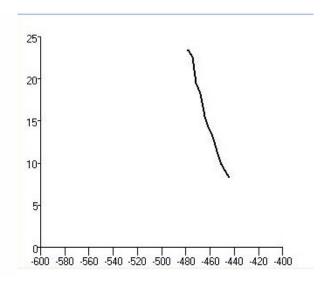




SAR Test GSM 850 Side (Bottom Channel)

0 1 1 6	0.4.0.4.0.5.4.1/0.44		0.00 ID
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.00dB
Date / Time:	2008-9-1 15:02:38	DUT Battery Model/No:	
Filename:	I300_GSM850_850Bod	Probe Serial Number:	0201
	y_Side_B.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	BODY LIQUID
Device Under Test:	i300	Relative Permittivity:	55.37
Relative Humidity:	55%	Conductivity:	.981
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	0.00 mm
		Location:	
DUT Position:	BODY	Max SAR Z-axis	-478.20 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	26.50 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.772 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.558 W/kg
Conversion Factors:	.290 / .290 / .290	SAR Start:	0.207 W/kg
Type of Modulation:	GMSK	SAR End:	0.207 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	0.09 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4

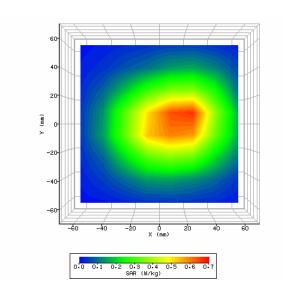


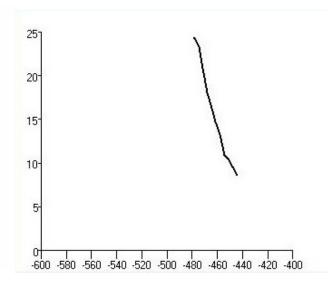




SAR Test GSM 850 Side (Middle Channel)

System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.02dB
Date / Time:	2008-9-1 15:22:29	DUT Battery Model/No:	
Filename:	I300_GSM850_850Bod	Probe Serial Number:	0201
	y_Side_M.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	BODY LIQUID
Device Under Test:	i300	Relative Permittivity:	55.37
Relative Humidity:	55%	Conductivity:	.981
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	1.71 mm
		Location:	
DUT Position:	BODY	Max SAR Z-axis	-478.20 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	27.78 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.866 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.611 W/kg
Conversion Factors:	.290 / .290 / .290	SAR Start:	0.228 W/kg
Type of Modulation:	GMSK	SAR End:	0.218 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-4.43 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4

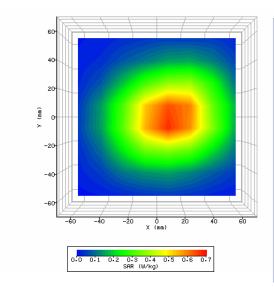


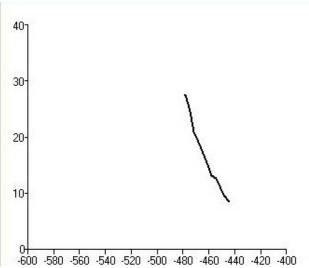




SAR Test GSM 850 Side (Top Channel)

System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.01dB
Date / Time:	2008-9-1 15:34:47	DUT Battery Model/No:	
Filename:	I300_GSM850_850Bod	Probe Serial Number:	0201
	y_Side_T.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	BODY LIQUID
Device Under Test:	i300	Relative Permittivity:	55.37
Relative Humidity:	55%	Conductivity:	.981
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	0.00 mm
		Location:	
DUT Position:	BODY	Max SAR Z-axis	-478.20 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	27.76 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.876 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.619 W/kg
Conversion Factors:	.290 / .290 / .290	SAR Start:	0.224 W/kg
Type of Modulation:	GMSK	SAR End:	0.225 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	0.50 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4

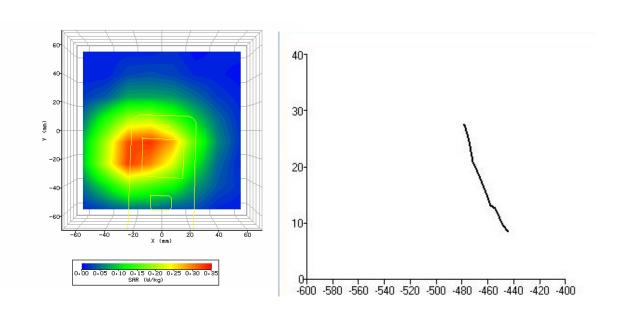






SAR Test GSM 850 Side (Top Channel WITH HEADPHONE)

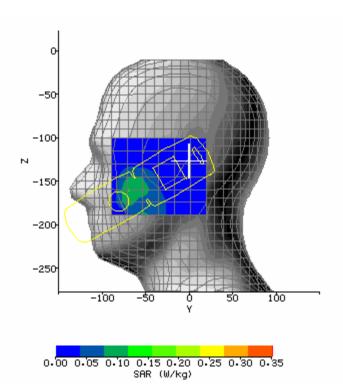
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.02dB
		-	0.0200
Date / Time:	2008-9-1 15:50:18	DUT Battery Model/No:	
Filename:	I300_GSM850_850Bod	Probe Serial Number:	0201
	y_Side_T1.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	BODY LIQUID
Device Under Test:	i300	Relative Permittivity:	55.37
Relative Humidity:	55%	Conductivity:	.981
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	8.76 mm
		Location:	
DUT Position:	BODY	Max SAR Z-axis	-478.20 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	25.62 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.808 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.477 W/kg
Conversion Factors:	.290 / .290 / .290	SAR Start:	0.241 W/kg
Type of Modulation:	GMSK	SAR End:	0.247 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	2.26 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test PCS 1900 LH_TouchCheek (Bottom Channel)

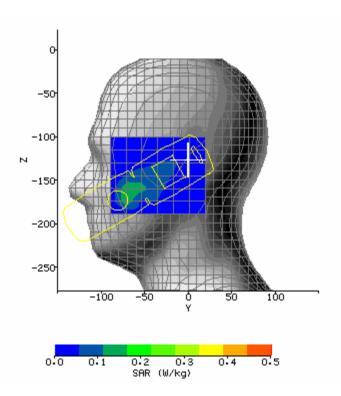
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.02dB
Date / Time:	2008-9-2 14:25:10	- 	
		DUT Battery Model/No:	
Filename:	I300_GSM1900_LH_To	Probe Serial Number:	0201
	uchCheek_B.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	40.23
Relative Humidity:	55%	Conductivity:	1.411
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	-66.00 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-165.33 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	14.87 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.265 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.144 W/kg
Conversion Factors:	.361 / .361 / .361	SAR Start:	0.076 W/kg
Type of Modulation:	GMSK	SAR End:	0.074 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-3.05 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test PCS 1900 LH_TouchCheek (Middle Channel)

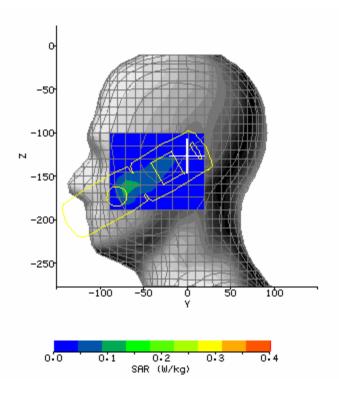
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.02dB
Date / Time:	2008-9-2 14:51:11	- 	0.0230
		DUT Battery Model/No:	
Filename:	I300_GSM1900_LH_To	Probe Serial Number:	0201
	uchCheek_M.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	40.23
Relative Humidity:	55%	Conductivity:	1.411
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	-67.83 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-166.83 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	18.61 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.402 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.193 W/kg
Conversion Factors:	.361 / .361 / .361	SAR Start:	0.113 W/kg
Type of Modulation:	GMSK	SAR End:	0.113 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	0.52 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test PCS 1900 LH_TouchCheek (Top Channel)

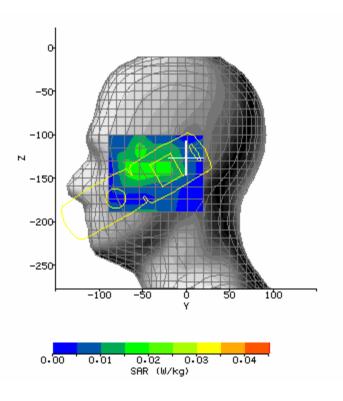
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.01dB
Date / Time:	2008-9-2 15:02:20	DUT Battery Model/No:	
Filename:	I300_GSM1900_LH_To	Probe Serial Number:	0201
	uchCheek_T.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	40.23
Relative Humidity:	55%	Conductivity:	1.411
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	-67.83 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-166.83 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	16.44 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.304 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.132 W/kg
Conversion Factors:	.361 / .361 / .361	SAR Start:	0.072 W/kg
Type of Modulation:	GMSK	SAR End:	0.072 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	0.76 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test PCS 1900 LH_Tilt15 (Bottom Channel)

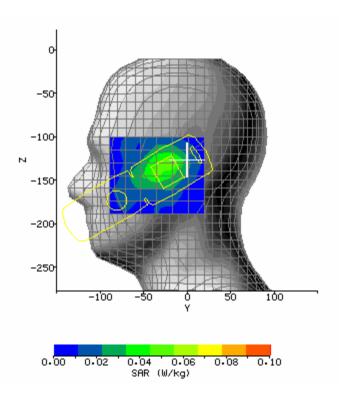
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.01dB
Date / Time:	2008-9-2 15:52:45	DUT Battery Model/No:	
Filename:	I300 GSM1900 LH Til	Probe Serial Number:	0201
	t15_B.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	40.23
Relative Humidity:	55%	Conductivity:	1.411
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	-51.50 mm
DUT Position:	HEAD	Max SAR Z-axis Location:	-131.33 mm
Antenna	BUILD INSIDE	Max E Field:	5.49 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.041 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.026 W/kg
Conversion Factors:	.361 / .361 / .361	SAR Start:	0.014 W/kg
Type of Modulation:	GMSK	SAR End:	0.013 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-2.06 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test PCS 1900 LH_Tilt15 (Middle Channel)

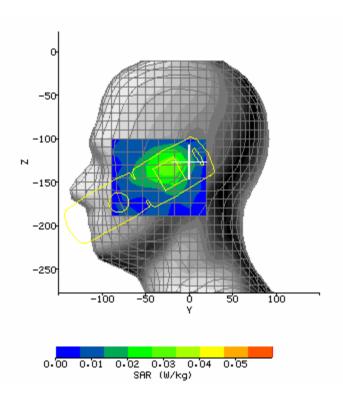
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.02dB
Date / Time:	2008-9-2 15:28:33		0.0230
		DUT Battery Model/No:	
Filename:		Probe Serial Number:	0201
	t15_M.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	40.23
Relative Humidity:	55%	Conductivity:	1.411
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	-20.50 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-129.17 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	8.06 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.085 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.057 W/kg
Conversion Factors:	.361 / .361 / .361	SAR Start:	0.030 W/kg
Type of Modulation:	GMSK	SAR End:	0.029 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-3.95 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test PCS 1900 LH_Tilt15 (Top Channel)

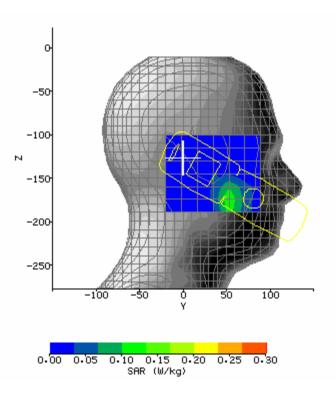
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.02dB
Date / Time:	2008-9-2 15:14:55	DUT Battery Model/No:	
		-	0004
Filename:	I300_GSM1900_LH_Til	Probe Serial Number:	0201
	t15_T.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	40.23
Relative Humidity:	55%	Conductivity:	1.411
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	-11.50 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-131.50 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	6.51 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.062 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.041 W/kg
Conversion Factors:	.361 / .361 / .361	SAR Start:	0.020 W/kg
Type of Modulation:	GMSK	SAR End:	0.020 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-2.80 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test PCS 1900 RH_TouchCheek (Bottom Channel)

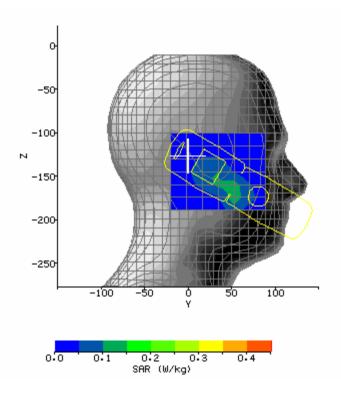
0 1 1 6	04540/0541/514	1 (5 5 %	0.04 ID
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.01dB
Date / Time:	2008-9-2 10:41:27	DUT Battery Model/No:	
Filename:	I300_GSM1900_RH_To	Probe Serial Number:	0201
	uchCheek_B.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	40.23
Relative Humidity:	55%	Conductivity:	1.411
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis	60.50 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-169.67 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	14.12 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.222 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.124 W/kg
Conversion Factors:	.361 / .361 / .361	SAR Start:	0.044 W/kg
Type of Modulation:	GMSK	SAR End:	0.043 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-1.82 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test PCS 1900 RH_TouchCheek (Middle Channel)

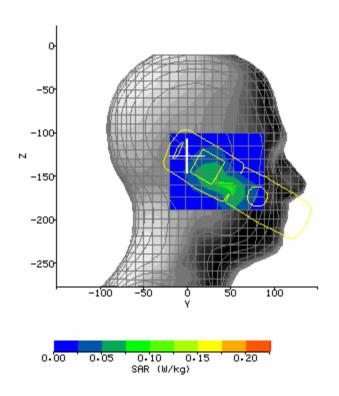
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.01dB
Date / Time:	2008-9-2 10:53:42	DUT Battery Model/No:	
Filename:	I300 GSM1900 RH To	Probe Serial Number:	0201
	uchCheek_M.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	40.23
Relative Humidity:	55%	Conductivity:	1.411
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis	62.17 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-171.33 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	17.57 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.278 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.145 W/kg
Conversion Factors:	.361 / .361 / .361	SAR Start:	0.075 W/kg
Type of Modulation:	GMSK	SAR End:	0.074 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-1.17 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test PCS 1900 RH_TouchCheek (Top Channel)

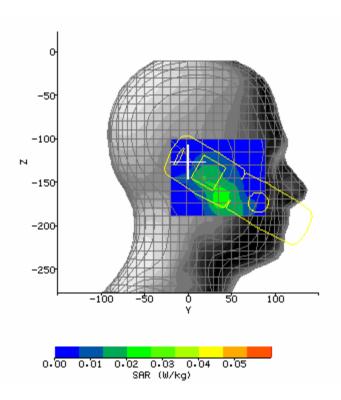
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.00dB
Date / Time:	2008-9-2 11:05:23	DUT Battery Model/No:	
Filename:	I300_GSM1900_RH_To	Probe Serial Number:	0201
	uchCheek_T.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	40.23
Relative Humidity:	55%	Conductivity:	1.411
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis	62.00 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-166.83 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	12.12 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.175 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.100 W/kg
Conversion Factors:	.361 / .361 / .361	SAR Start:	0.047 W/kg
Type of Modulation:	GMSK	SAR End:	0.047 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-0.11 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test PCS 1900 RH_Tilt15 (Bottom Channel)

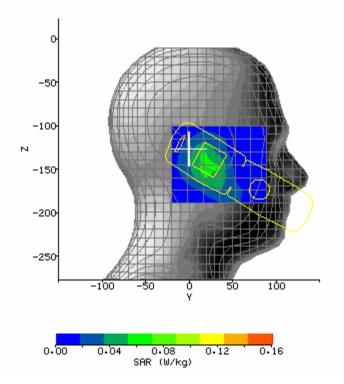
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.02dB
Date / Time:	2008-9-2 14:08:24	-	0.0245
		DUT Battery Model/No:	
Filename:	I300_GSM1900_RH_Til	Probe Serial Number:	0201
	t15_B.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	40.23
Relative Humidity:	55%	Conductivity:	1.411
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis	40.50 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-178.17 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	6.14 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.044 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.030 W/kg
Conversion Factors:	.361 / .361 / .361	SAR Start:	0.014 W/kg
Type of Modulation:	GMSK	SAR End:	0.014 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	4.47 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test PCS 1900 RH_Tilt15 (Middle Channel)

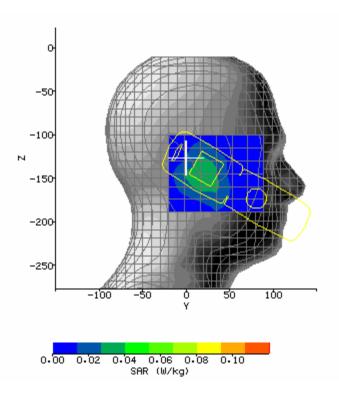
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.02dB
Date / Time:	2008-9-2 11:31:42	DUT Battery Model/No:	
Filename:	I300_GSM1900_RH_Til	Probe Serial Number:	0201
	t15_M.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	40.23
Relative Humidity:	55%	Conductivity:	1.411
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis	22.17 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-148.00 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	10.30 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.123 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.074 W/kg
Conversion Factors:	.361 / .361 / .361	SAR Start:	0.037 W/kg
Type of Modulation:	GMSK	SAR End:	0.036 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-4.44 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test PCS 1900 RH_Tilt15 (Top Channel)

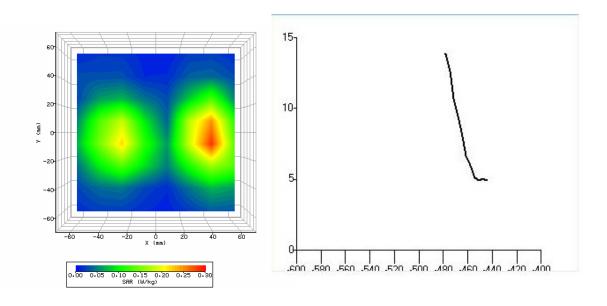
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.02dB
Date / Time:	2008-9-2 11:19:15	DUT Battery Model/No:	0.0242
		-	
Filename:	I300_GSM1900_RH_Til	Probe Serial Number:	0201
	t15_T.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	HEAD LIQUID
Device Under Test:	i300	Relative Permittivity:	40.23
Relative Humidity:	55%	Conductivity:	1.411
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis	18.50 mm
		Location:	
DUT Position:	HEAD	Max SAR Z-axis	-146.50 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	8.82 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.078 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.049 W/kg
Conversion Factors:	.361 / .361 / .361	SAR Start:	0.026 W/kg
Type of Modulation:	GMSK	SAR End:	0.025 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-4.58 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test PCS 1900 Side (Bottom Channel)

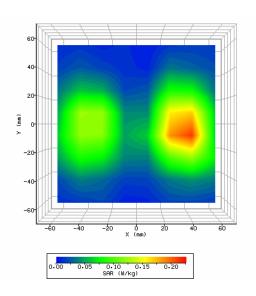
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.01dB
		-	0.0100
Date / Time:	2008-9-2 15:55:00	DUT Battery Model/No:	
Filename:	I300_GSM1900_Body_	Probe Serial Number:	0201
	Side_B.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	BODY LIQUID
Device Under Test:	i300	Relative Permittivity:	53.16
Relative Humidity:	55%	Conductivity:	1.542
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	-3.43 mm
		Location:	
DUT Position:	BODY	Max SAR Z-axis	-478.20 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	14.82 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.425 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.266 W/kg
Conversion Factors:	.401 / .401 / .401	SAR Start:	0.076 W/kg
Type of Modulation:	GMSK	SAR End:	0.074 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-1.79 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4

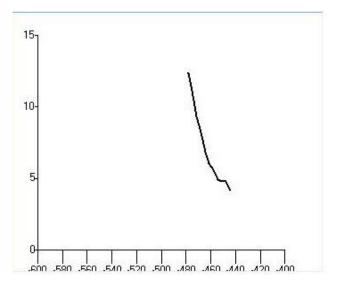




SAR Test PCS 1900 Side (Middle Channel)

System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.01dB
Date / Time:	2008-9-2 16:09:55	DUT Battery Model/No:	
Filename:	I300_GSM1900_Body_	Probe Serial Number:	0201
	Side_M.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	BODY LIQUID
Device Under Test:	i300	Relative Permittivity:	53.16
Relative Humidity:	55%	Conductivity:	1.542
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	-5.14 mm
		Location:	
DUT Position:	BODY	Max SAR Z-axis	-478.20 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	13.26 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.327 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.206 W/kg
Conversion Factors:	.401 / .401 / .401	SAR Start:	0.060 W/kg
Type of Modulation:	GMSK	SAR End:	0.059 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-1.25 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4

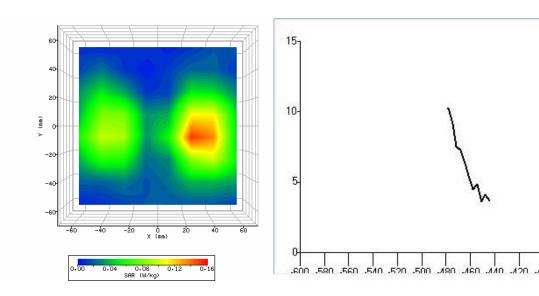






SAR Test PCS 1900 Side (Top Channel)

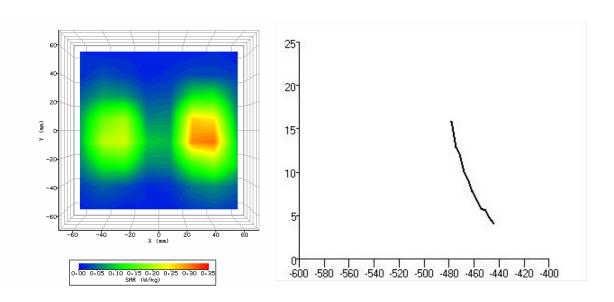
System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.02dB
	0.000	-	0.0200
Date / Time:	2008-9-2 16:27:04	DUT Battery Model/No:	
Filename:	I300_GSM1900_Body_	Probe Serial Number:	0201
	Side_T.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	BODY LIQUID
Device Under Test:	i300	Relative Permittivity:	53.16
Relative Humidity:	55%	Conductivity:	1.542
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	-6.86 mm
		Location:	
DUT Position:	BODY	Max SAR Z-axis	-478.20 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	11.14 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.243 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.153 W/kg
Conversion Factors:	.401 / .401 / .401	SAR Start:	0.042 W/kg
Type of Modulation:	GMSK	SAR End:	0.043 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	3.57 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4





SAR Test PCS 1900 Side (Bottom Channel WITH HEADPHONE)

System / software:	SARA2 / 2.54 VPM	Input Power Drift:	0.01dB
	0.000	•	0.0100
Date / Time:	2008-9-2 17:10:50	DUT Battery Model/No:	
Filename:	I300_GSM1900_Body_	Probe Serial Number:	0201
	Side_B1.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	BODY LIQUID
Device Under Test:	i300	Relative Permittivity:	53.16
Relative Humidity:	55%	Conductivity:	1.542
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	-3.43 mm
		Location:	
DUT Position:	BODY	Max SAR Z-axis	-478.20 mm
		Location:	
Antenna	BUILD INSIDE	Max E Field:	16.92 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.485 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	0.300 W/kg
Conversion Factors:	.401 / .401 / .401	SAR Start:	0.090 W/kg
Type of Modulation:	GMSK	SAR End:	0.092 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	1.54 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	MAX POWER	Extrapolation:	poly4

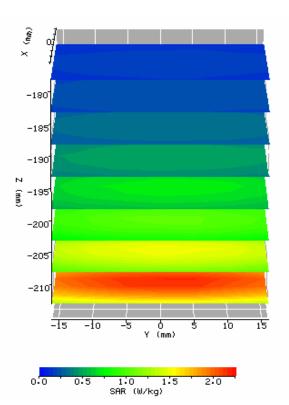




Annex E: System Performance Check Data

System Cheek Head 850MHz

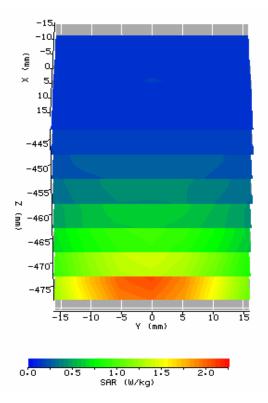
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	-0.01dB
Date / Time:	2008-9-1 7:36:25	DUT Battery Model/No:	
Filename:	System Cheek_Head _850MHz.txt	Probe Serial Number:	0201
Ambient Temperature:	23.1°C	Liquid Simulant:	Head tissue
Device Under Test:	IXD-090antenna (250mw)	Relative Permittivity:	41.62
Relative Humidity:	54%	Conductivity:	.891
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1° C
Phantom Rotation:	0°	Max SAR Y-axis Location:	5.30 mm
DUT Position:	850_Head	Max SAR Z-axis Location:	-213.00 mm
Antenna	IXD-090antenna	Max E Field:	47.27 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	2.690 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	1.834 W/kg
Conversion Factors:	.288 / .288 / .288	SAR Start:	0.628 W/kg
Type of Modulation:	1	SAR End:	0.627 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	-0.27 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	24dBm	Extrapolation:	poly4





System Cheek Body 850MHz

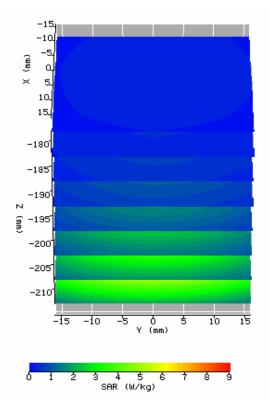
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.01dB
Date / Time:	2008-9-1 12:27:58	DUT Battery Model/No:	0.0100
		-	0004
Filename:	System Cheek_Body	Probe Serial Number:	0201
	_850MHz.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	Body tissue
Device Under Test:	IXD-090antenna	Relative Permittivity:	55.37
	(250mw)		
Relative Humidity:	55%	Conductivity:	0.981
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR X-axis	0.00 mm
		Location:	
DUT Position:	850_Body	Max SAR Y-axis	0.00 mm
		Location:	
Antenna	IXD-090antenna	Max E Field:	44.91 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	2.617 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	1.744 W/kg
Conversion Factors:	.290 / .290 / .290	SAR Start:	0.581 W/kg
Type of Modulation:	1	SAR End:	0.580 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	-0.25 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	24dBm	Extrapolation:	poly4





System Cheek Head 1900MHz

System / software:	SARA2 / 2.40 VPM	Input Power Drift:	-0.01dB
Date / Time:	2008-9-2 7:41:53	DUT Battery Model/No:	
Filename:	System Cheek_Head	Probe Serial Number:	0201
	_1900MHz.txt		
Ambient Temperature:	23.1°C	Liquid Simulant:	Head tissue
Device Under Test:	IXD-080antenna	Relative Permittivity:	40.23
	(250mw)		
Relative Humidity:	55%	Conductivity:	1.411
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis	0.00 mm
		Location:	
DUT Position:	1900_Head	Max SAR Z-axis	-212.31 mm
		Location:	
Antenna	IXD-080antenna	Max E Field:	77.49 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	10.314 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	5.780 W/kg
Conversion Factors:	.361 / .361 / .361	SAR Start:	1.620 W/kg
Type of Modulation:	1	SAR End:	1.620 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	-0.31 %
Diode Compression	20 / 20 / 20	Probe battery last	(2.90V)
Factors (V*200):		changed:	
Input Power Level:	24dBm	Extrapolation:	Poly4





System Cheek Body 1900MHz

System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.01dB
Date / Time:	2008-9-2 12:08:17	DUT Battery Model/No:	
Filename:	System Cheek_Body _1900MHz.txt	Probe Serial Number:	0201
Ambient Temperature:	23.1°C	Liquid Simulant:	Body tissue
Device Under Test:	IXD-080antenna (250mw)	Relative Permittivity:	53.16
Relative Humidity:	54%	Conductivity:	1.542
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR X-axis Location:	0.00 mm
DUT Position:	1900_Body	Max SAR Y-axis Location:	0.00 mm
Antenna Configuration:	IXD-080antenna	Max E Field:	73.31 V/m
Test Frequency:	1900MHz	SAR 1g:	10.127 W/kg
Air Factors:	354 / 376 / 470	SAR 10g:	5.514 W/kg
Conversion Factors:	.401 / .401 / .401	SAR Start:	1.580 W/kg
Type of Modulation:	1	SAR End:	1.580 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	0.17 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	(2.90V)
Input Power Level:	24dBm	Extrapolation:	poly4

