





ShenZhen Electronic Product Quality Testing Center

CONFORMANCE TEST REPORT FOR HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SAR06-52

Techfaith Wireless Communication Technology Limited.

GSM 850/900/1800/1900 GPRS Mobile Phone

Type Name: Pebble

FCC ID: UJQ-06515T

Hardware Version: P:

Software Version: TF_WM5_PEBBLE_VER_01.01_R0609071207(10.16.3)

Date of Issue: 2006-10-24









GENERAL SUMMARY

Product Name	GSM 850/900/1800/1900 GPRS Mobile Phone	Development Stage	MP			
	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 Electromagne Fields					
Standard(s)	ANSI C95.1–1999: IEEE Standard for	Safety Levels with	Respect to Human			
Otanuaru(3)	Exposure to Radio Frequency Electromagnet	ic Fields, 3 kHz to 300	GHz.			
	IEEE 1528-2003: Recommended Practice	for Determining the	Peak Spatial-Average			
=	Specific Absorption Rate (SAR) in the Hui	man Body Due to Wi	reless Communications			
	Devices: Experimental Techniques.					
	Localized Specific Absorption Rate (SAR)	of this portable wireles	s equipment has been			
	measured in all cases requested by the rele	evant standards cited in	Clause 5.2 of this test			
	report. Maximum localized SAR is below exp	osure limits specified in	n the relevant standards			
Conclusion	cited in Clause 5.1 of this test report.					
	General Judgment: Pass					
i e	φ	Date of iss	ue: Oct 24th, 2006			
	TX Freq. Band: 824.20 MHz—848.80 MHz	1850.20 MHz —	1909.80 MHz			
C	RX Freq. Band: 869.20 MHz—893.80 MHz	1930.20 MHz —1	989.80 MHz			
Comment	Antenna Character : build inside	X				
	The test result only responds to the measured	d sample.	-13			
T 1	by: How Tav	Oct 24	244			
Tested	by: Hou Tao	Parie oct of	, 200			
Checked by: Smart Li						
Approved by: Cran Wn, Date: Oct. st, Soo 6						
Li'an Wu						



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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

Mr. Li'an Wu
Managers:

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.: SAR06-052
S.E.T Project Leader: Mr. Li Sixiong

S.E.T Responsible for

Mr. Li'an Wu

accreditation scope:

 Start of Testing:
 2006-10-7

 End of Testing:
 2006-10-24

2.4. Identification of Applicant

Company Name: Techfaith Wireless Communication Technology Limited.

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Contact person: Tao Zeli

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2.5.Identification of Manufacture

Company Name: Techfaith Wireless Communication Technology Limited.

Address: 2/FM8 West,No.1 Jiu Xian Qiao Dong Road,Chao Yang

District.Beijing,China P.C:100016

Contact person: Tao Zeli

Telephone: (+86) 10-58229861 **Fax**: (+86) 10-58228899

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: TechFaith Wireless

Type Name: Pebble Marking Name: Pebble

Test frequency GSM 850MHz PCS 1900MHz WIFI 2450MHz

Development Stage Identical prototype Accessories Charger, Battery;

Battery Model TH-QNHG

Battery specification 1250mAh 3.7V

General description: Antenna type Build inside

Operation mode Call established
Modulation mode GSM; GPRS; WIFI

33dBm(GSM 850) 30dBm(PCS 1900)

Max. Power(EIRP)

≤20dBm(WIFI 2450)

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

EUT Code	Serial Number	Hardware Version	Software Version	IMEI
1#	N.A.	P1	TF_WM5_PEBBLE_VER_01.01_R0609071207(10.16.3)	0000000000000000

NOTE:

1. The EUT consists of Hand Telephone Set and normal options: Charger, Lithium Battery as listed above.

- 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. The EUT can work in three different bands, but this SAR test was performed only in the GSM 850MHz and PCS 1900MHz bands.
- 4. The EUT can work in WIFI mode (operating frequency from 2400 to 2483.5MHz). This SAR test was performed in the 2450MHz, which is according to the 802.11g and 802.11b. But the WIFI mode can't operate together with Phone call established.



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 PCS 1900 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

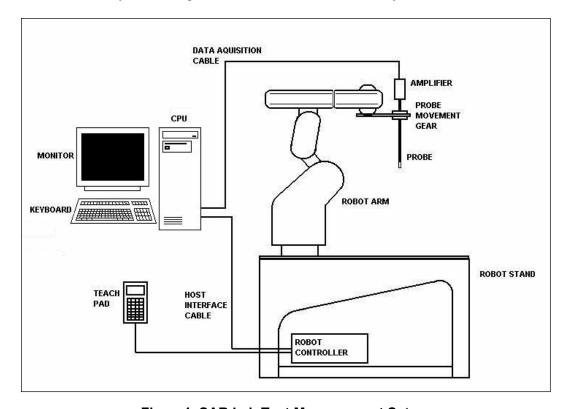


Figure 1. SAR Lab Test Measurement Set-up



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

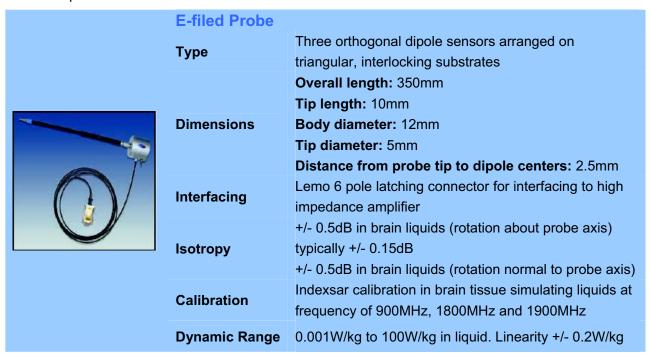
4.2.2 Probe and amplifier specification

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.



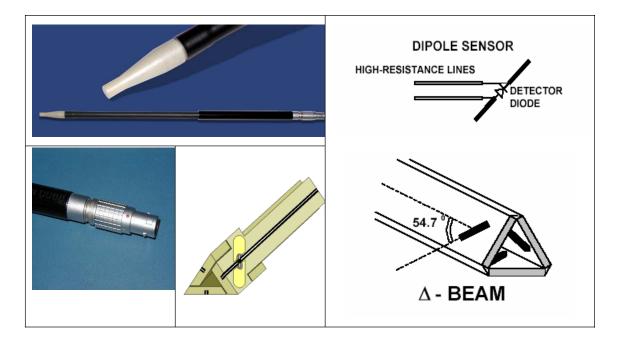


Figure 2. Specification and characterisation parameters of indexsar probe



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

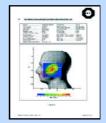
Ranges Software selectable of x1 to 63

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

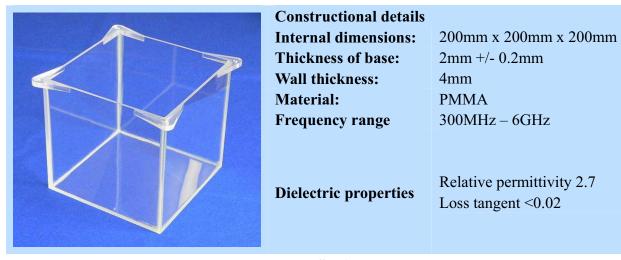


registration systems are utilised to register the phantom position in relationship to the robot co-ordinate system. In the SARA2 implementation, the SAM phantom is mounted on a supporting table made of low dielectric loss material, which includes mounting brackets for DUT positioners, dipole holders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

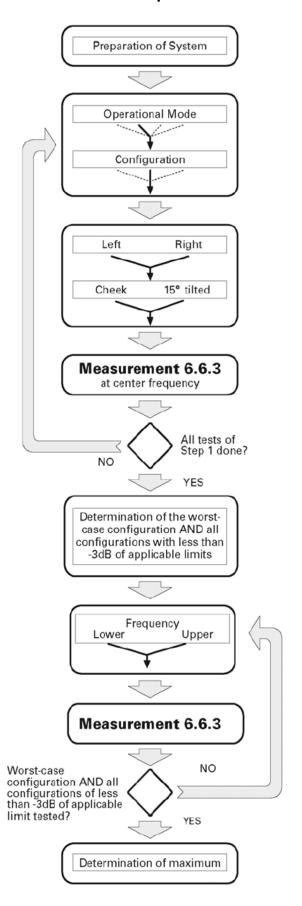
4.2.3.3 Simulant liquids

Simulant liquids that are used for testing at frequencies of GSM 850MHz and PCS 1900MHz, 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.

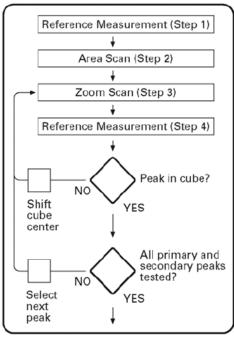
Ingredients	Frequency(MHz)					
(% by weight)	8:	50	19	000	24	50
Tissue Type	Head	Body	Head	Body	Head	Body
Water	40.92	56.0	54.9	40.4	N.A.	N.A.
Salt(NaCl)	1.48	0.76	0.18	0.5	N.A.	N.A.
Sugar	56.5	41.76	0.0	58.0	N.A.	N.A.
HEC	1	1.21	0.0	1.0	N.A.	N.A.
Bacterial de	0.0	0.0	0.0	0.1	N.A.	N.A.
DGBE	0.0	0.0	44.92	0.0	N.A.	N.A.
Acticide SPX	0.1	0.27	0.0	0.0	N.A.	N.A.
Dielectric Constant	41.44	52.99	39.9	54.0	39.2	52.7
Conductivity (S/m)	0.99	1.12	1.42	1.45	1.80	1.95



4.2.4 SAR measurement procedure



Measurement 6.6.3





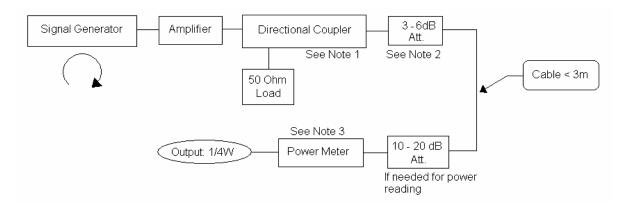
Channel	Left				Right			
	Ch	eek	T	ilt	Ch	eek	Т	ilt
	Retracted	Extended	Retracted	Extended	Retracted	Extended	Retracted	Extended
Mode 1:								
High			S2(-1.4dB)	S2(-0.4dB)			S2(-2.2dB)	S2(-1.4dB)
Middle	S1(-4dB)	S1(-4dB)	S1(-1.5dB)	S1(-0.5dB)	S1(-5dB)	S1(-5dB)	S1(-2.5dB)	S1(-1.5dB)
Low			S2(-1.3dB)	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

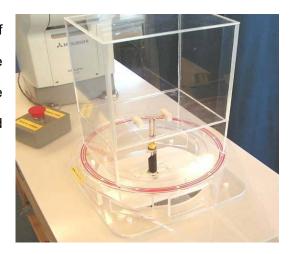


frequency and use a power meter to measure the power at the end of the SMA cable that you intend to connect to the balanced dipole. Adjust the SG to make this, say, 0.25W (24 dBm). If this level is too high to read directly with the power meter sensor, insert a calibrated attenuator (e.g. 10 or 20 dB) 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)		
	IXD-080 validation dipole		
Reference dipole	IXD-090 validation dipole		
	IXD-245 validation dipole		

Results:

Frequency	Target value (1g)	Test value (1g)		
850MHz	10.8W/kg	10.528 (Head)	10.264 (Body)	
1900MHz	39.7 W/kg	41.152 (Head)	40.324 (Body)	
2450MHz	52.4 W/kg	52.824 (Head)	52.344 (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 ~23.9°C respectively. The SAM head phantom (SN 0380 SH and 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. 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: 23.0~23.9° C, humidity: 54~60%.					
1	Frequency	Permittivity ε	Conductivity o (S/m)		
Target value	850 MHZ	41.5	0.97		
Validation value	850 MHZ	41.06	0.961		
Target value	1900 MHZ	40.0	1.40		
Validation value	1900 MHZ	40.15	1.362		
Target value	2450MHz	39.2	1.80		
Validation value	2450MHz	39.20	1.789		

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: 23.0~23.9° C, humidity: 54~60%.						
1	Frequency	Permittivity ε	Conductivity o (S/m)			
Target value	850 MHz	55.0	1.05			
Validation value	850 MHz	54.83	1.028			



No.SAR06-52

Target value	1900 MHz	53.3	1.52
Validation value (Oct 14)	1900 MHz	52.98	1.531
Target value	2450 MHz	52.7	1.95
Validation value	2450 MHz	52.65	1.938

7.2 Summary of Measurement Results (GSM 850MHz and PCS 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//ca)	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 frequency	0.575	32.33		
Left head, Touch cheek, Mid frequency	0.576	32.21		
Left head, Touch cheek, Top frequency	0.681	32.06		
Left head, Tilt 15 Degree, Bottom frequency	0.621	32.33		
Left head, Tilt 15 Degree, Mid frequency	0.625	32.21		
Left head, Tilt 15 Degree, Top frequency	0.639	32.06		
Right head, Touch cheek, Bottom frequency	0.461	32.33		
Right head, Touch cheek, Mid frequency	0.474	32.21		
Right head, Touch cheek, Top frequency	0.452	32.06		
Right head, Tilt 15 Degree, Bottom frequency	0.567	32.33		
Right head, Tilt 15 Degree, Mid frequency	0.553	32.21		
Right head, Tilt 15 Degree, Top frequency	0.542	32.06		

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

Temperature: 23.0 °C ~23.8°C, humidity: 54~59%.				
Limit of SAR (W/kg)	1 g A	1 g Average		
Limit of SAR (W/kg)	1	1.6		
	Measurement	Result (W/kg)		
Test Case	1 g Average	Power level		
	(W/kg)	(dBm)		
Left head, Touch cheek, Bottom frequency	0.092	29.11		
Left head, Touch cheek, Mid frequency	0.135	29.44		
Left head, Touch cheek, Top frequency	uch cheek, Top frequency 0.206 29.21			



Left head, Tilt 15 Degree, Bottom frequency	0.089	29.11
Left head, Tilt 15 Degree, Mid frequency	0.124	29.44
Left head, Tilt 15 Degree, Top frequency	0.184	29.21
Right head, Touch cheek, Bottom frequency	0.200	29.11
Right head, Touch cheek, Mid frequency	0.242	29.44
Right head, Touch cheek, Top frequency	0.359	29.21
Right head, Tilt 15 Degree, Bottom frequency	0.209	29.11
Right head, Tilt 15 Degree, Mid frequency	0.276	29.44
Right head, Tilt 15 Degree, Top frequency	0.345	29.21

Table 4: SAR Values (WIFI 2450MHz Band), Measured against the head.

Temperature: 23.0 °C ~23.8°C, humidity: 54~59%.					
Limit of SAD (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 frequency	0.163	16.55			
Left head, Touch cheek, Mid frequency	0.239	16.42			
Left head, Touch cheek, Top frequency	0.279	16.28			
Left head, Tilt 15 Degree, Bottom frequency	0.165	16.55			
Left head, Tilt 15 Degree, Mid frequency	0.182	16.42			
Left head, Tilt 15 Degree, Top frequency	0.173	16.28			
Right head, Touch cheek, Bottom frequency	0.166	16.55			
Right head, Touch cheek, Mid frequency	0.212	16.42			
Right head, Touch cheek, Top frequency	0.219	16.28			
Right head, Tilt 15 Degree, Bottom frequency	0.218	16.55			
Right head, Tilt 15 Degree, Mid frequency	0.268	16.42			
Right head, Tilt 15 Degree, Top frequency	0.279	16.28			

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

Temperature: 23.0 °C ~23.8°C, humidity: 48~58%.					
Limit of CAD (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	0.297	32.33			
Side, Mid frequency	0.211	32.21			
Side , Top frequency	0.173	32.06			



Side , Bottom frequency(with GPRS)	0.312	32.33
Side , Bottom frequency(with Bluetooth)	0.282	32.33
Side, Bottom frequency(with GPRS , face to bottom)	0.097	32.33

Table 6: SAR Values (PCS 1900 MHz Band), Measured against the body

Temperature: 21.0~21.9° C, humidity: 48~58%.					
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	0.042	29.11			
Side, Mid frequency	0.040	29.44			
Side , Top frequency	0.034	29.21			
Side , Bottom frequency(with GPRS)	0.041	29.11			
Side , Bottom frequency(with Bluetooth)	0.036 29.11				
Side, Bottom frequency(with GPRS , face to bottom)	0.025	29.11			

Table 7: SAR Values (WIFI 2450 MHz Band), Measured against the body

Temperature: 21.0~21.9° C, humidity: 48~58%.					
Limit of SAR (W/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	0.153	16.55			
Side, Mid frequency	0.134	16.42			
Side , Top frequency	0.136 16.28				
Side , Bottom frequency (face to bottom)	requency (face to bottom) 0.122 16.55				
Side , Bottom frequency(with Bluetooth)	0.097	16.55			

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							
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	80
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	А	0.00	N	1	1	0.00	0



No.SAR06-52

16	Output Power Variation – SAR drift measurement	В	5.0	R	$\sqrt{3}$	1	2.89	∞
	Phantom and Tissue Parameters							
17	-Phantom Uncertainty(shape and thickness tolerances)	В	1.43	R	$\sqrt{3}$	1	0.83	∞
18	-Liquid Conductivity Target - tolerance	В	5.0	R	$\sqrt{3}$	0.7	2.02	∞
19	Liquid Conductivity – measurement Uncertainty)	В	2.0	R	$\sqrt{3}$	0.7	0.81	∞
20	-Liquid Permittivity Target tolerance	В	5.0	R	$\sqrt{3}$	0.6	1.73	∞
21	Liquid Permittivity – measurement uncertainty	В	1.0	R	$\sqrt{3}$	0.6	0.35	∞
Con	nbined Standard Uncertainty			RSS			±8.95%	
1	anded uncertainty fidence interval of 95 %)			K= 2.003935			±17.9%	

9 MAIN TEST INSTRUMENTS

No.	EQUIPMENT	ТҮРЕ	Due Date
1	E-Field SAR Probe	IXP-050 (SN 0177)	2007-03-28
2	Six-axis AC Servo industrial robot	RV-2A (SN AN406018)	2007-03-28
3	Mobile Phone Tester	4405 (SN 0811211)	2007-03-28
4	System Validation Dipole 2450MHZ	IXD-245 (SN 0104)	2007-03-28
5	System Validation Dipole 1900MHZ	IXD-080 (SN 0112)	2007-03-28
6	System Validation Dipole 850MHZ	IXD-090 (SN 0093)	2007-03-28
7	Probe Amplifier and PC Interface	IFA-010 (SN 0027)	2007-03-28
8	SAM Head Phantom	SN 0380 SH	2007-03-28
9	SAM Head Phantom	SN 0381 SH	2007-03-28
10	Box Phantom	IXB-070	2007-03-28



ANNEX A

of

ShenZhen Electronic Product Quality Testing Center

CONFORMANCE TEST REPORT FOR HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SAR06-52

Techfaith Wireless Communication Technolgy Limited.

GSM 850/900/1800/1900 GPRS Mobile Phone

Accreditation Certificate

This Annex consists of 2 pages
Date of Report: 2006-10-24











ACCREDITATION CERTIFICATE OF CHINA NATIONAL ACCREDITATION BOARD FOR LABORATORIES

(No.L1659)

This is to certify that

Shenzhen Electronic Product Quality Testing Center

Electronic Testing Building, Shahe Road, Xili, Nanshan District,

Shenzhen, Guangdong, China

has been assessed and proved to be in compliance with CNAL/AC01: 2003 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 1999 General Requirements for the Competence of Testing and Calibration Laboratories).

Accreditation scope of the laboratory is listed in the attachment.

Date of Issue: 2004.10.09

Date of Expiry: 2009.10.08

Wei Hao

Secretary General of CNAL



ANNEX B

of

ShenZhen Electronic Product Quality Testing Center

CONFORMANCE TEST REPORT FOR HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SAR06-52

Techfaith Wireless Communication Technology Limited.

GSM 850/900/1800/1900 GPRS Mobile Phone

Type Name: Pebble

Hardware Version: P1

Software Version: TF_WM5_PEBBLE_VER_01.01_R0609071207(10.16.3)

TEST LAYOUT

This Annex consists of 5 pages
Date of Report: 2006-10-24











Fig.1 SARA2 System Test Layout

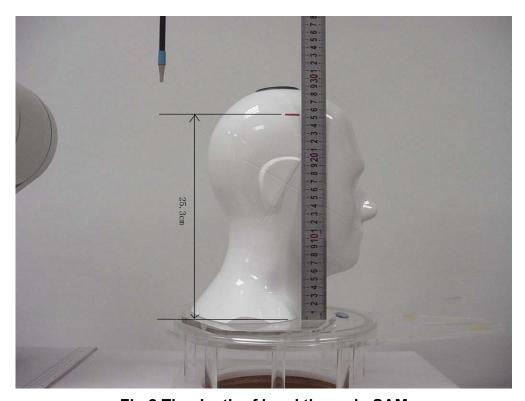


Fig.2 The depth of head tissue in SAM





Fig.3 EUT Left Head Touch Cheek Position



Fig.4 EUT Left Head Tilt15 Position



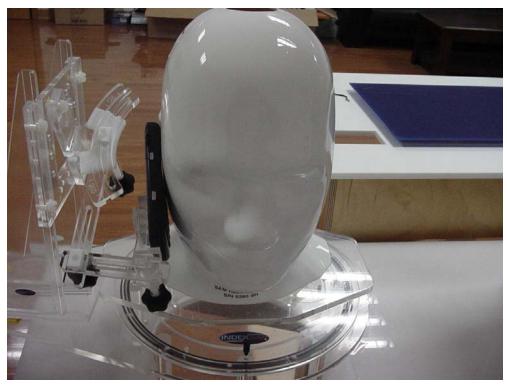


Fig.5 EUT Right Head Touch Cheek Position



Fig.6 EUT Right Head Tilt15 Position







Fig.7 spacer 1.5cm

Fig.8 the depth of body tissue



Fig.9 Side Position



ANNEX C

of

ShenZhen Electronic Product Quality Testing Center

CONFORMANCE TEST REPORT FOR HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SAR06-52

Techfaith Wireless Communication Technology Limited.

GSM 850/900/1800/1900 GPRS Mobile Phone

Type Name: Pebble

Hardware Version: P1

Software Version: TF_WM5_PEBBLE_VER_01.01_R0609071207(10.16.3)

Sample Photographs

This Annex consists of 3 pages
Date of Report: 2006-10-24









1. Photograph of the Equipment under Test

1.1. Appearance





(ET

1.2 Inside

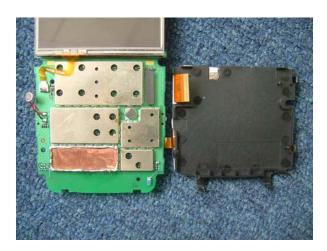














ANNEX D

of

ShenZhen Electronic Product Quality Testing Center

CONFORMANCE TEST REPORT FOR HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SAR06-52

Techfaith Wireless Communication Technology Limited.

GSM 850/900/1800/1900 GPRS Mobile Phone

Type Name: Pebble

Hardware Version: P1

Software Version: TF WM5 PEBBLE_VER 01.01 R0609071207(10.16.3)

Graph Test Results

This Annex consists of 49 pages Date of Report: 2006-10-24



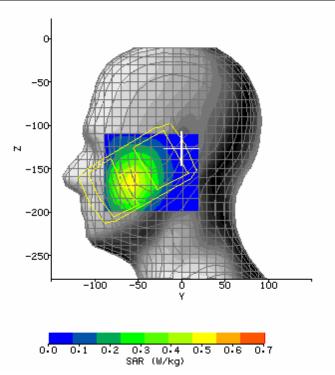






SAR Test GSM 850 LH_TouchCheek (Bottom Channel)

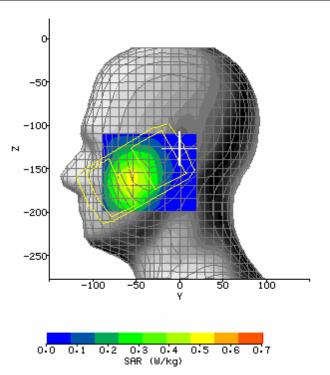
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		•	0.0300
Date / Time:	2006-10-13 17:11:34	DUT Battery Model/No:	
Filename:	PEBBLE_850LH_Touch	Probe Serial Number:	0177
	Cheek_B.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	41.06
Relative Humidity:	58%	Conductivity:	.961
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	-57.00 mm
		Location:	
DUT Position:	PEBBLE_850LH_Touch	Max SAR Z-axis	-165.50 mm
	Cheek_B	Location:	
Antenna	Build inside	Max E Field:	25.57 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.575 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.431 W/kg
Conversion Factors:	.287 / .287 / .287	SAR Start:	0.389 W/kg
Type of Modulation:	GMSK	SAR End:	0.370 W/kg
Modn. Duty Cycle:	4	SAR Drift during Scan:	-4.98 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4





SAR Test GSM 850 LH_TouchCheek (Middle Channel)

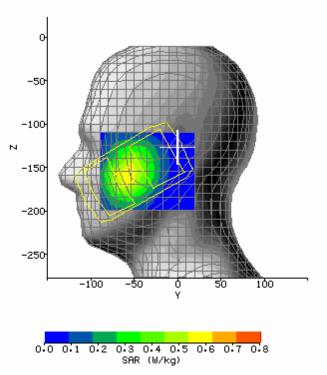
	0.4.0.4.0.4.0.4.0.4.0.4.0.4.0.4.0.4.0.4	1	0.00 IB
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.02dB
Date / Time:	2006-10-13 17:37:07	DUT Battery Model/No:	
Filename:	PEBBLE_850LH_Touch	Probe Serial Number:	0177
	Cheek_M.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	41.06
Relative Humidity:	58%	Conductivity:	.961
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	-55.17 mm
		Location:	
DUT Position:	PEBBLE_850LH_Touch	Max SAR Z-axis	-162.50 mm
	Cheek_M	Location:	
Antenna	Build inside	Max E Field:	25.33 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.576 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.415 W/kg
Conversion Factors:	.287 / .287 / .287	SAR Start:	0.359 W/kg
Type of Modulation:	GMSK	SAR End:	0.361 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	0.71 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4





SAR Test GSM 850 LH_TouchCheek (Top Channel)

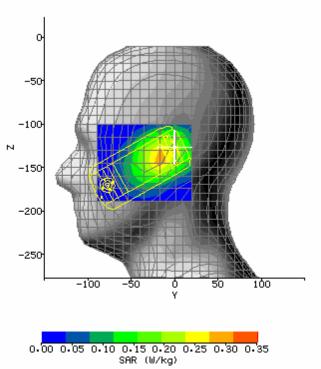
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.02dB
Date / Time:	2006-10-13 19:38:57	DUT Battery Model/No:	
Filename:	PEBBLE_850LH_Touch	Probe Serial Number:	0177
	Cheek_T.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	41.06
Relative Humidity:	58%	Conductivity:	.961
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	-57.00 mm
		Location:	
DUT Position:	PEBBLE_850LH_Touch	Max SAR Z-axis	-158.00 mm
	Cheek_T	Location:	
Antenna	Build inside	Max E Field:	27.55 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.681 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.505 W/kg
Conversion Factors:	.286 / .286 / .286	SAR Start:	0.451 W/kg
Type of Modulation:	GMSK	SAR End:	0.446 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-1.09 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4





SAR Test GSM 850 LH_Tilt15 (Bottom Channel)

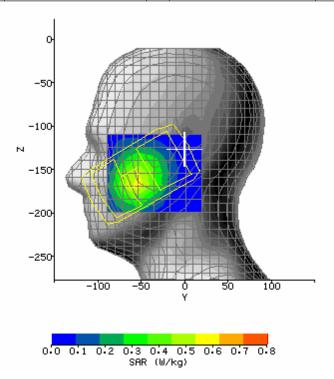
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.02B
Date / Time:	2006-10-13 20:21:12	DUT Battery Model/No:	
Filename:	Pebble_850LH	Probe Serial Number:	0177
	_Tilt15_B.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	Pebble	Relative Permittivity:	41.06
Relative Humidity:	56%	Conductivity:	.961
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	-53.53 mm
		Location:	
DUT Position:	Pebble_850LH	Max SAR Z-axis	-164.00 mm
	_Tilt15_B	Location:	
Antenna	Build inside	Max E Field:	27.10 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.621 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.458 W/kg
Conversion Factors:	.287 / .287 / .287	SAR Start:	0.420 W/kg
Type of Modulation:	GMSK	SAR End:	0.424 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	0.79 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4





SAR Test GSM 850 LH_Tilt15 (Middle Channel)

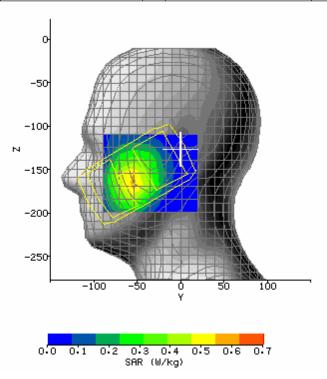
	Г		I
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.01dB
Date / Time:	2006-10-13 20:05:01	DUT Battery Model/No:	
Filename:	PEBBLE_850LH_Tilt15	Probe Serial Number:	0177
	_M.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	41.06
Relative Humidity:	58%	Conductivity:	.961
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	-53.33 mm
		Location:	
DUT Position:	PEBBLE_850LH_Tilt15	Max SAR Z-axis	-164.00 mm
	_M	Location:	
Antenna	Build inside	Max E Field:	27.14 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.625 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.462 W/kg
Conversion Factors:	.286 / .286 / .286	SAR Start:	0.399 W/kg
Type of Modulation:	GMSK	SAR End:	0.397 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-0.61 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4





SAR Test GSM 850 LH_Tilt15 (Top Channel)

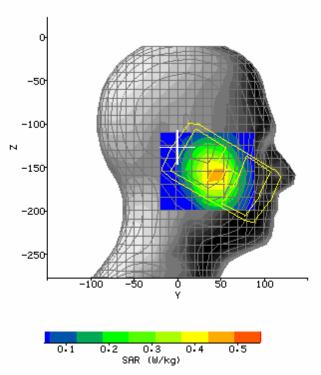
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.03dB
Date / Time:	2006-10-13 19:51:08	DUT Battery Model/No:	
Filename:	PEBBLE_850LH_Tilt15	Probe Serial Number:	0177
	_T.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	41.06
Relative Humidity:	58%	Conductivity:	.961
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	-55.17 mm
		Location:	
DUT Position:	PEBBLE_850LH_Tilt15	Max SAR Z-axis	-164.00 mm
	_T	Location:	
Antenna	Build inside	Max E Field:	26.85 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.639 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.469 W/kg
Conversion Factors:	.286 / .286 / .286	SAR Start:	0.415 W/kg
Type of Modulation:	GMSK	SAR End:	0.406 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-2.19 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4





SAR Test GSM 850 RH_TouchCheek (Bottom Channel)

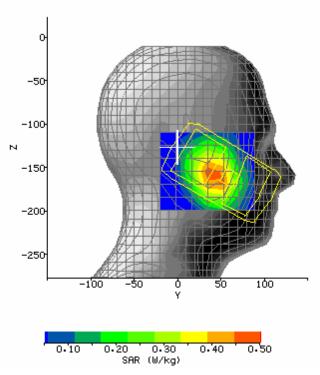
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.02dB
Date / Time:	2006-10-13 15:29:23	DUT Battery Model/No:	
Filename:	PEBBLE_850RH_Touc	Probe Serial Number:	0177
	hCheek_B.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	41.06
Relative Humidity:	58%	Conductivity:	.961
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	44.17 mm
		Location:	
DUT Position:	PEBBLE_850RH_Touc	Max SAR Z-axis	-159.50 mm
	hCheek_B	Location:	
Antenna	Build inside	Max E Field:	22.90 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.461 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.377 W/kg
Conversion Factors:	.287 / .287 / .287	SAR Start:	0.355 W/kg
Type of Modulation:	GMSK	SAR End:	0.360 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	1.51 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4





SAR Test GSM 850 RH_TouchCheek (Middle Channel)

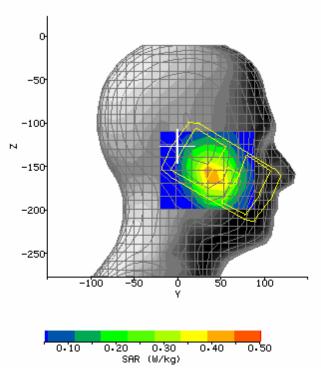
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.02dB
Date / Time:	2006-10-13 15:17:19	DUT Battery Model/No:	
Filename:	PEBBLE_850RH_Touc	Probe Serial Number:	0177
	hCheek_M.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	41.06
Relative Humidity:	58%	Conductivity:	.961
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	42.33 mm
		Location:	
DUT Position:	PEBBLE_850RH_Touc	Max SAR Z-axis	-159.50 mm
	hCheek_M	Location:	
Antenna	Build inside	Max E Field:	22.81 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.474 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.383 W/kg
Conversion Factors:	.287 / .287 / .287	SAR Start:	0.360 W/kg
Type of Modulation:	GMSK	SAR End:	0.354 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-1.64 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4





SAR Test GSM 850 RH_TouchCheek (Top Channel)

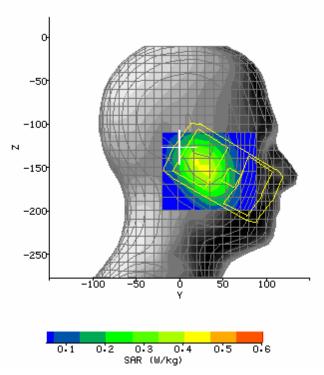
System / seffware	SARA2 / 2.40 VPM	Innut Dawer Drift	0.02dB
System / software:	SARAZ / 2.40 VPIVI	Input Power Drift:	U.U20B
Date / Time:	2006-10-13 15:59:36	DUT Battery Model/No:	
Filename:	PEBBLE_850RH_Touc	Probe Serial Number:	0177
	hCheek_T.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	41.06
Relative Humidity:	58%	Conductivity:	.961
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	42.33 mm
		Location:	
DUT Position:	PEBBLE_850RH_Touc	Max SAR Z-axis	-162.50 mm
	hCheek_T	Location:	
Antenna	Build inside	Max E Field:	22.23 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.452 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.363 W/kg
Conversion Factors:	.287 / .287 / .287	SAR Start:	0.336 W/kg
Type of Modulation:	GMSK	SAR End:	0.328 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-2.34 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4





SAR Test GSM 850 RH_Tilt15 (Bottom Channel)

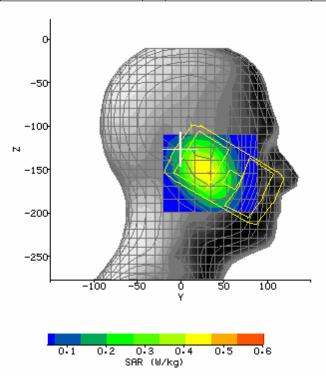
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.03dB
Date / Time:	2006-10-13 16:45:00	DUT Battery Model/No:	
Filename:	PEBBLE_850RH_Tilt15	Probe Serial Number:	0177
	_B.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	41.06
Relative Humidity:	58%	Conductivity:	.961
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	27.67 mm
		Location:	
DUT Position:	PEBBLE_850RH_Tilt15	Max SAR Z-axis	-150.50 mm
	_B	Location:	
Antenna	Build inside	Max E Field:	24.21 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.567 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.413 W/kg
Conversion Factors:	.287 / .287 / .287	SAR Start:	0.316 W/kg
Type of Modulation:	GMSK	SAR End:	0.302 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-4.43 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4





SAR Test GSM 850 RH_Tilt15 (Middle Channel)

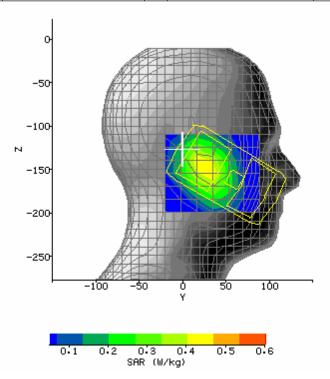
	Г		
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.04dB
Date / Time:	2006-10-13 16:25:59	DUT Battery Model/No:	
Filename:	PEBBLE_850RH_Tilt15	Probe Serial Number:	0177
	_M.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	41.06
Relative Humidity:	58%	Conductivity:	.961
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	27.67 mm
		Location:	
DUT Position:	PEBBLE_850RH_Tilt15	Max SAR Z-axis	-150.50 mm
	_M	Location:	
Antenna	Build inside	Max E Field:	24.43 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.553 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.442 W/kg
Conversion Factors:	.287 / .287 / .287	SAR Start:	0.346 W/kg
Type of Modulation:	GMSK	SAR End:	0.336 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-2.92 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4





SAR Test GSM 850 RH_Tilt15 (Top Channel)

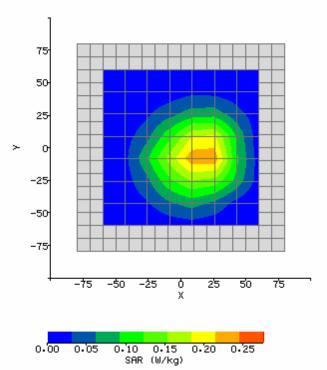
	Г		
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.02dB
Date / Time:	2006-10-13 16:12:56	DUT Battery Model/No:	
Filename:	PEBBLE_850RH_Tilt15	Probe Serial Number:	0177
	_T.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	41.06
Relative Humidity:	58%	Conductivity:	.961
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	25.83 mm
		Location:	
DUT Position:	PEBBLE_850RH_Tilt15	Max SAR Z-axis	-147.50 mm
	_T	Location:	
Antenna	Build inside	Max E Field:	24.43 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.542 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.419 W/kg
Conversion Factors:	.287 / .287 / .287	SAR Start:	0.339 W/kg
Type of Modulation:	GMSK	SAR End:	0.333 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-1.57 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4





SAR Test GSM 850 Side (Bottom Channel)

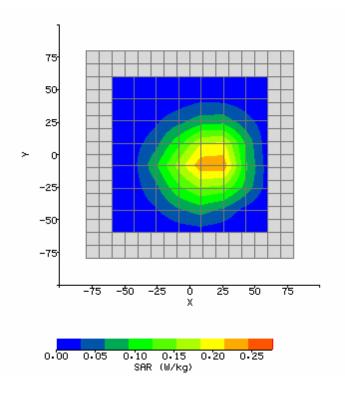
0 1 1 5	04540 / 0 00 / /514	1 15 5 6	0.00 ID
System / software:	SARA2 / 2.39 VPM	Input Power Drift:	0.02dB
Date / Time:	2006-10-13 23:06:45:	DUT Battery Model/No:	
Filename:	PEBBLE_850Body_Sid	Probe Serial Number:	0177
	e_B.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Body tissue
Device Under Test:	PEBBLE	Relative Permittivity:	54.83
Relative Humidity:	44%	Conductivity:	1.028
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR X-axis	15.43 mm
		Location:	
DUT Position:	PEBBLE_850Body_Sid	Max SAR Y-axis	-5.14 mm
	e_B	Location:	
Antenna	build inside	Max E Field:	15.71 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.297 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.197 W/kg
Conversion Factors:	.271 / .271 / .271	SAR Start:	0.074 W/kg
Type of Modulation:	GMSK	SAR End:	0.072 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-2.70%
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4





SAR Test GSM 850 Side (Middle Channel)

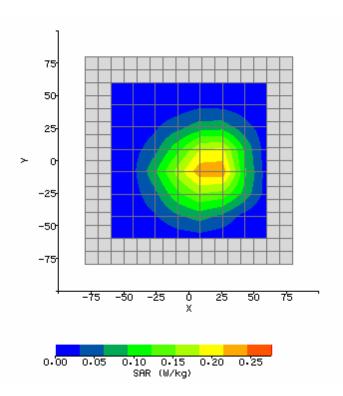
System / software:	SARA2 / 2.39 VPM	Input Power Drift:	0.02dB
Date / Time:	2006-10-13 23:30:50	DUT Battery Model/No:	
Filename:	PEBBLE_850Body_Sid	Probe Serial Number:	0177
	e_M.txt		
Ambient Temperature:	23.6°C	Liquid Simulant:	Body tissue
Device Under Test:	PEBBLE	Relative Permittivity:	54.83
Relative Humidity:	44%	Conductivity:	1.028
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR X-axis	18.86 mm
		Location:	
DUT Position:	PEBBLE_850Body_Sid	Max SAR Y-axis	-10.29 mm
	e_M	Location:	
Antenna	build inside	Max E Field:	13.10 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.211 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.140 W/kg
Conversion Factors:	.271 / .271 / .271	SAR Start:	0.052 W/kg
Type of Modulation:	GMSK	SAR End:	0.050 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-4.05 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4





SAR Test GSM 850 Side (Top Channel)

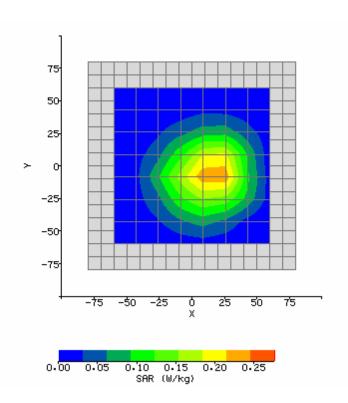
			I
System / software:	SARA2 / 2.39 VPM	Input Power Drift:	0.02dB
Date / Time:	2006-10-13 23:49:42	DUT Battery Model/No:	
Filename:	PEBBLE_850Body_Sid	Probe Serial Number:	0177
	e_T.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Body tissue
Device Under Test:	PEBBLE	Relative Permittivity:	54.83
Relative Humidity:	44%	Conductivity:	1.028
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR X-axis	13.71 mm
		Location:	
DUT Position:	PEBBLE_850Body_Sid	Max SAR Y-axis	-5.14 mm
	e_T	Location:	
Antenna	build inside	Max E Field:	11.94 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.173 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.114 W/kg
Conversion Factors:	.271 / .271 / .271	SAR Start:	0.038 W/kg
Type of Modulation:	GMSK	SAR End:	0.037 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-1.42 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4





SAR Test GSM 850 Side (Bottom Channel, with GPRS)

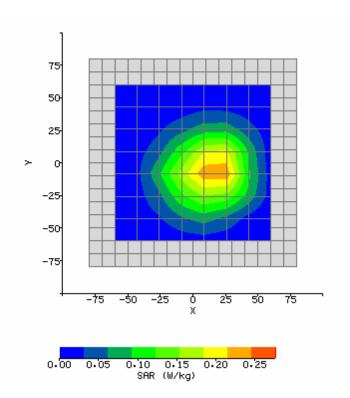
System / software:	SARA2 / 2.39 VPM	Input Power Drift:	0.05dB
		•	0.0300
Date / Time:	2006-10-14 00:03:10	DUT Battery Model/No:	
Filename:	PEBBLE_850Body_Sid	Probe Serial Number:	0177
	e_TG. txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Body tissue
Device Under Test:	PEBBLE	Relative Permittivity:	54.83
Relative Humidity:	44%	Conductivity:	1.028
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR X-axis	13.82 mm
		Location:	
DUT Position:	PEBBLE_850Body_Sid	Max SAR Y-axis	-5.08 mm
	e_TG	Location:	
Antenna	build inside	Max E Field:	13.45 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.312 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.204 W/kg
Conversion Factors:	.271 / .271 / .271	SAR Start:	0.079 W/kg
Type of Modulation:	GMSK	SAR End:	0.078 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-1.28%
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	level5(33dBm)	Extrapolation:	poly4





SAR Test GSM 850 Side (Bottom Channel, with Bluetooth)

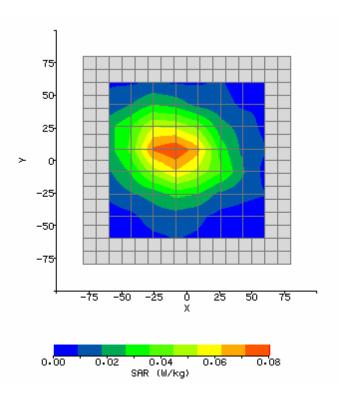
System / software:	SARA2 / 2.39 VPM	Input Power Drift:	0.04dB
Date / Time:	2006-10-14 00:28:29	DUT Battery Model/No:	
Filename:	PEBBLE 850Body Sid	Probe Serial Number:	0177
i licitatile.		Frobe Serial Number.	0177
	e_TB. txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Body tissue
Device Under Test:	PEBBLE	Relative Permittivity:	54.83
Relative Humidity:	44%	Conductivity:	1.028
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR X-axis	14.02 mm
		Location:	
DUT Position:	PEBBLE_850Body_Sid	Max SAR Y-axis	5.07 mm
	e_TB	Location:	
Antenna	build inside	Max E Field:	12.58 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.282 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.195 W/kg
Conversion Factors:	.271 / .271 / .271	SAR Start:	0.076 W/kg
Type of Modulation:	GMSK	SAR End:	0.074 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-2.70%
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	level5(33dBm)	Extrapolation:	poly4





SAR Test GSM 850 Side (Top Channel, with GPRS, face to bottom)

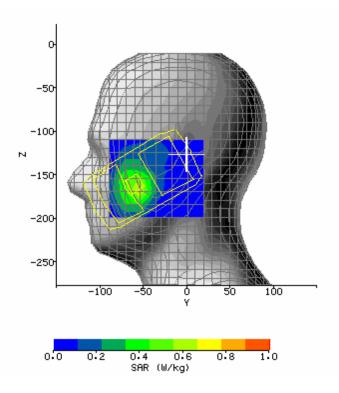
System / software:	SARA2 / 2.39 VPM	Input Power Drift:	0.02dB
Date / Time:	2006-10-14 00:55:18	DUT Battery Model/No:	
Filename:	PEBBLE 850Body Sid	Probe Serial Number:	0177
	e_TG2. txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Body tissue
Device Under Test:	PEBBLE	Relative Permittivity:	54.83
Relative Humidity:	44%	Conductivity:	1.028
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR X-axis	-10.29 mm
		Location:	
DUT Position:	PEBBLE_850Body_Sid	Max SAR Y-axis	6.86 mm
	e_TG2	Location:	
Antenna	build inside	Max E Field:	8.74 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	0.097 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.064 W/kg
Conversion Factors:	.271 / .271 / .271	SAR Start:	0.029 W/kg
Type of Modulation:	GMSK	SAR End:	0.028 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-2.54 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	level5(33dBm)	Extrapolation:	poly4





SAR Test PCS 1900 LH_Touchcheek (Bottom Channel)

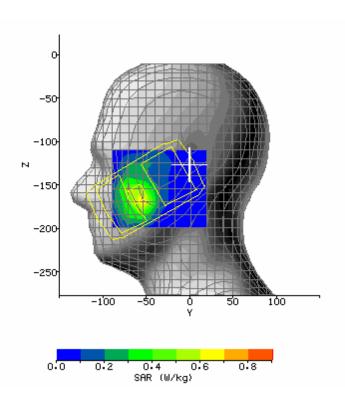
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	2006-10-13 21:29:08	DUT Battery Model/No:	
Filename:	PEBBLE_1900LH_Touc	Probe Serial Number: 0177	
	hCheek_B.txt		
Ambient Temperature:	23.5°C	Liquid Simulant: Head	tissue
Device Under Test:	PEBBLE	Relative Permittivity: 40.15	
Relative Humidity:	58%	Conductivity: 1.362	
Phantom S/No:	Head_381SH.csv	Liquid Temperature: 23.3°C	<u> </u>
Phantom Rotation:	0°	Max SAR Y-axis -57.00) mm
		Location:	
DUT Position:	PEBBLE_1900LH_Touc	Max SAR Z-axis -165.5	60 mm
	hcheek_B	Location:	
Antenna	Build inside	Max E Field: 25.93	V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g : 0.838	W/kg
Air Factors:	417 / 368 / 414	SAR 10g: 0.564	W/kg
Conversion Factors:	.325 / .325 / .325	SAR Start: 0.500	W/kg
Type of Modulation:	GMSK	SAR End: 0.508	W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan: 1.58 %	6
Diode Compression	20 / 20 / 20	Probe battery last 20/05/	05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation: poly4	





SAR Test PCS 1900 LH_Touchcheek (Middle Channel)

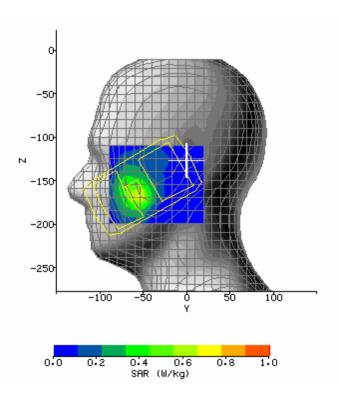
0	04540 / 0 40 //514	I4 D	
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	2006-10-13 21:39:47	DUT Battery Model/No:	
Filename:	PEBBLE_1900LH_Touc	Probe Serial Number:	0177
	hCheek_M.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	40.15
Relative Humidity:	58%	Conductivity:	1.362
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	-57.00 mm
		Location:	
DUT Position:	PEBBLE_1900LH_Touc	Max SAR Z-axis	-167.00 mm
	hcheek_M	Location:	
Antenna	Build inside	Max E Field:	25.67 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.884 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.572 W/kg
Conversion Factors:	.325 / .325 / .325	SAR Start:	0.510 W/kg
Type of Modulation:	GMSK	SAR End:	0.491 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-3.55 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4





SAR Test PCS 1900 LH_Touchcheek (Top Channel)

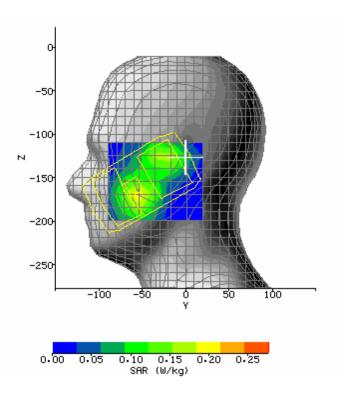
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	2006-10-13 21:51:00	DUT Battery Model/No:	
Filename:	PEBBLE_1900LH_Touc	Probe Serial Number:	0177
	hCheek_T.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	40.15
Relative Humidity:	58%	Conductivity:	1.362
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	-57.00 mm
		Location:	
DUT Position:	PEBBLE_1900LH_Touc	Max SAR Z-axis	-167.00 mm
	hcheek_T	Location:	
Antenna	Build inside	Max E Field:	25.74 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.836 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.554 W/kg
Conversion Factors:	.325 / .325 / .325	SAR Start:	0.494 W/kg
Type of Modulation:	GMSK	SAR End:	0.494 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	0.11 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4





SAR Test PCS 1900 LH_Tilt15 (Bottom Channel)

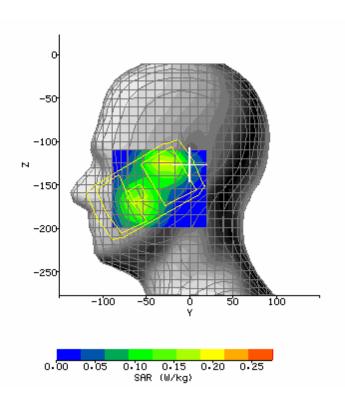
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	2006-10-14 10:49:19	DUT Battery Model/No:	
Filename:	PEBBLE_1900RH_Tilt1	Probe Serial Number:	0177
	5_B.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	40.15
Relative Humidity:	58%	Conductivity:	1.362
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	-53.33 mm
		Location:	
DUT Position:	PEBBLE_1900LH_Tilt1	Max SAR Z-axis	-171.50 mm
	5_B	Location:	
Antenna	Build inside	Max E Field:	14.07 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.257 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.178 W/kg
Conversion Factors:	.319 / .319 / .319	SAR Start:	0.137 W/kg
Type of Modulation:	GMSK	SAR End:	0.134 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-2.23 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4





SAR Test PCS 1900 LH_Tilt15 (Middle Channel)

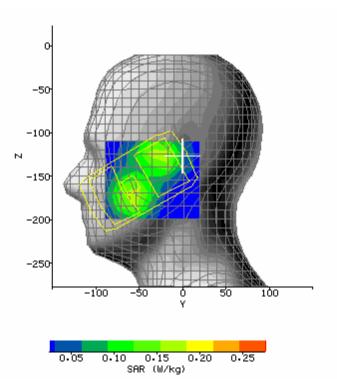
			T
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	2006-10-14 10:31:42	DUT Battery Model/No:	
Filename:	PEBBLE_1900RH_Tilt1	Probe Serial Number:	0177
	5_M.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	40.15
Relative Humidity:	58%	Conductivity:	1.362
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	-27.67 mm
		Location:	
DUT Position:	PEBBLE_1900LH_Tilt1	Max SAR Z-axis	-128.00 mm
	5_M	Location:	
Antenna	Build inside	Max E Field:	13.73 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.236 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.167 W/kg
Conversion Factors:	.319 / .319 / .319	SAR Start:	0.137 W/kg
Type of Modulation:	GMSK	SAR End:	0.135 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-1.62 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4





SAR Test PCS 1900 LH_Tilt15 (Middle Channel)

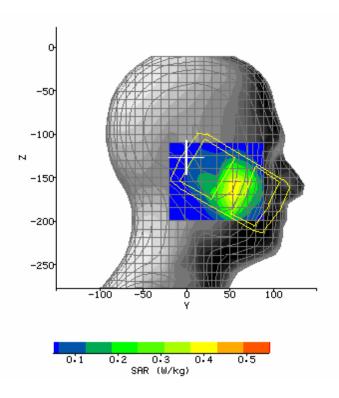
			T
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	2006-10-14 10:15:45	DUT Battery Model/No:	
Filename:	PEBBLE_1900RH_Tilt1	Probe Serial Number:	0177
	5_T.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	40.15
Relative Humidity:	58%	Conductivity:	1.362
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	-57.00 mm
		Location:	
DUT Position:	PEBBLE_1900LH_Tilt1	Max SAR Z-axis	-173.00 mm
	5_T	Location:	
Antenna	Build inside	Max E Field:	13.84 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.228 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.161 W/kg
Conversion Factors:	.319 / .319 / .319	SAR Start:	0.134 W/kg
Type of Modulation:	GMSK	SAR End:	0.128 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-5.09 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4





SAR Test PCS 1900 RH_Touchcheek (Bottom Channel)

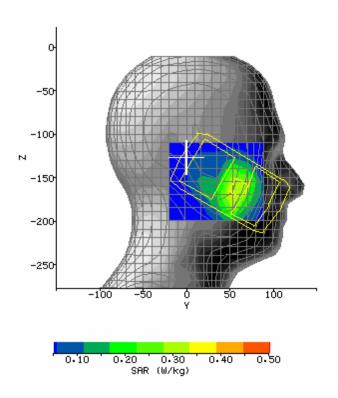
			1
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	2006-10-14 11:08:59	DUT Battery Model/No:	
Filename:	PEBBLE_1900RH_Tou	Probe Serial Number:	0177
	chcheek_B.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	40.15
Relative Humidity:	58%	Conductivity:	1.362
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	55.17 mm
		Location:	
DUT Position:	PEBBLE_1900RH_Tou	Max SAR Z-axis	-162.50 mm
	chcheek_B	Location:	
Antenna	Build inside	Max E Field:	19.93 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.496 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.358 W/kg
Conversion Factors:	.319 / .319 / .319	SAR Start:	0.313 W/kg
Type of Modulation:	GMSK	SAR End:	0.311 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-0.92 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4





SAR Test PCS 1900 RH_Touchcheek (Middle Channel)

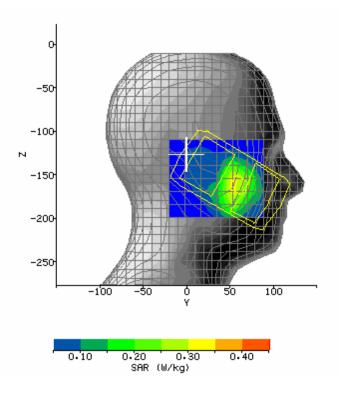
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	2006-10-14 11:24:12	DUT Battery Model/No:	
Filename:	PEBBLE_1900RH_Tou	Probe Serial Number:	0177
	chcheek_M.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	40.15
Relative Humidity:	58%	Conductivity:	1.362
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	57.00 mm
		Location:	
DUT Position:	PEBBLE_1900RH_Tou	Max SAR Z-axis	-164.00 mm
	chcheek_M	Location:	
Antenna	Build inside	Max E Field:	19.13 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.431 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.309 W/kg
Conversion Factors:	.319 / .319 / .319	SAR Start:	0.265 W/kg
Type of Modulation:	GMSK	SAR End:	0.270 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	2.08 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4





SAR Test PCS 1900 RH_Touchcheek (Top Channel)

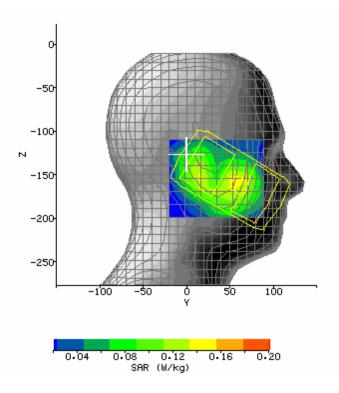
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
	2006-10-14 11:48:32	<u> </u>	
Date / Time:	2000 10 11 11110102	DUT Battery Model/No:	
Filename:	PEBBLE_1900RH_Tou	Probe Serial Number:	0177
	chcheek_T.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	40.15
Relative Humidity:	58%	Conductivity:	1.362
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	57.00 mm
		Location:	
DUT Position:	PEBBLE_1900RH_Tou	Max SAR Z-axis	-162.50 mm
	chcheek_T	Location:	
Antenna	Build inside	Max E Field:	17.59 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.370 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.271 W/kg
Conversion Factors:	.325 / .325 / .325	SAR Start:	0.259 W/kg
Type of Modulation:	GMSK	SAR End:	0.257 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-0.59 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4





SAR Test PCS 1900 RH_Tilt15 (Bottom Channel)

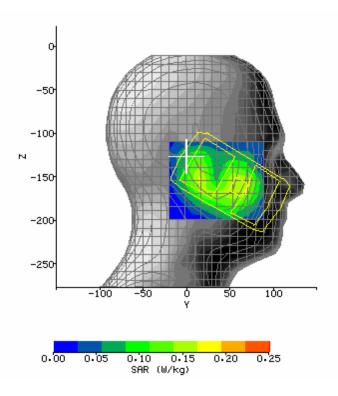
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	2006-10-14 13:38:47	DUT Battery Model/No:	
Filename:	PEBBLE_1900RH_Tilt1	Probe Serial Number:	0177
	5_B.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	40.15
Relative Humidity:	58%	Conductivity:	1.362
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	57.00 mm
		Location:	
DUT Position:	PEBBLE_1900RH_Tilt1	Max SAR Z-axis	-161.00 mm
	5_B	Location:	
Antenna	Build inside	Max E Field:	11.92 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.176 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.129 W/kg
Conversion Factors:	.325 / .325 / .325	SAR Start:	0.110 W/kg
Type of Modulation:	GMSK	SAR End:	0.109 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-1.10 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4





SAR Test PCS 1900 RH_Tilt15 (Middle Channel)

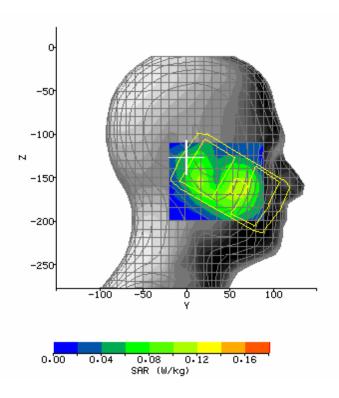
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	2006-10-14 13:54:20	DUT Battery Model/No:	
Filename:	PEBBLE_1900RH_Tilt1	Probe Serial Number:	0177
	5_M.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	40.15
Relative Humidity:	58%	Conductivity:	1.362
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	58.83 mm
		Location:	
DUT Position:	PEBBLE_1900RH_Tilt1	Max SAR Z-axis	-161.00 mm
	5_M	Location:	
Antenna	Build inside	Max E Field:	13.40 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.229 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.153 W/kg
Conversion Factors:	.325 / .325 / .325	SAR Start:	0.140 W/kg
Type of Modulation:	GMSK	SAR End:	0.138 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-1.31 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4





SAR Test PCS 1900 RH_Tilt15 (Top Channel)

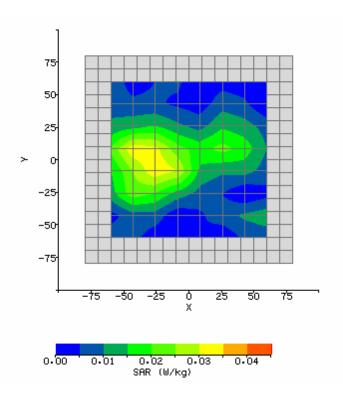
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	2006-10-14 13:24:20	DUT Battery Model/No:	
Filename:	PEBBLE_1900RH_Tilt1	Probe Serial Number:	0177
	5_T.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	40.15
Relative Humidity:	58%	Conductivity:	1.362
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	58.83 mm
		Location:	
DUT Position:	PEBBLE_1900RH_Tilt1	Max SAR Z-axis	-162.50 mm
	5_T	Location:	
Antenna	Build inside	Max E Field:	11.23 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.153 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.108 W/kg
Conversion Factors:	.325 / .325 / .325	SAR Start:	0.099 W/kg
Type of Modulation:	GMSK	SAR End:	0.092 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-7.38 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4





SAR Test PCS 1900 Side (Bottom Channel)

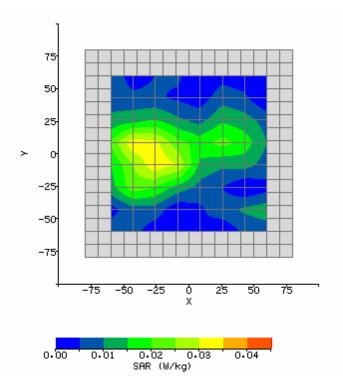
	T		T
System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2006-10-14 08:28:18:	DUT Battery Model/No:	
Filename:	PEBBLE	Probe Serial Number:	0177
	_1900Body_Side_B.txt		
Ambient Temperature:	23.6°C	Liquid Simulant:	Body tissue
Device Under Test:	PEBBLE	Relative Permittivity:	52.98
Relative Humidity:	45%	Conductivity:	1.531
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR X-axis	-23.81 mm
		Location:	
DUT Position:	PEBBLE_1900Body_Si	Max SAR Y-axis	-5.33 mm
	de_B	Location:	
Antenna	build inside	Max E Field:	5.37 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.042 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.032 W/kg
Conversion Factors:	.356 / .356 / .356	SAR Start:	0.010 W/kg
Type of Modulation:	GMSK	SAR End:	0.010 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-0.90 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4





SAR Test PCS 1900 Side (Middle Channel)

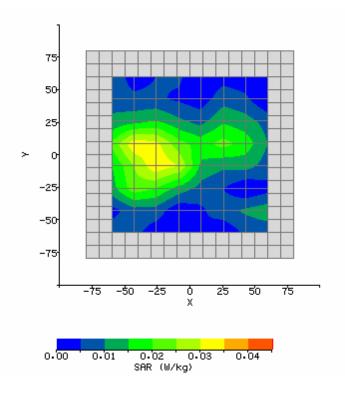
	T		T
System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2006-10-14 8:43:35	DUT Battery Model/No:	
Filename:	PEBBLE_1900Body_Si	Probe Serial Number:	0177
	de_M.txt		
Ambient Temperature:	23.6°C	Liquid Simulant:	Body tissue
Device Under Test:	PEBBLE	Relative Permittivity:	52.98
Relative Humidity:	44%	Conductivity:	1.531
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR X-axis	-32.76 mm
		Location:	
DUT Position:	PEBBLE	Max SAR Y-axis	10.67 mm
	_1900Body_Side_M	Location:	
Antenna	build inside	Max E Field:	5.02 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.040 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.028 W/kg
Conversion Factors:	.356 / .356 / .356	SAR Start:	0.007 W/kg
Type of Modulation:	GMSK	SAR End:	0.007 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	4.03 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4





SAR Test PCS 1900 Side (Top Channel)

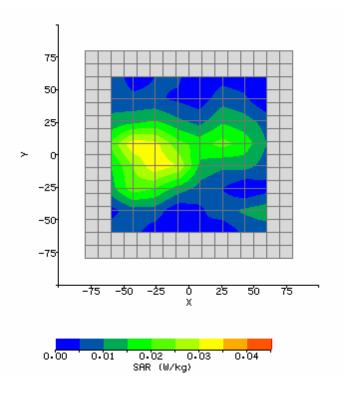
			T
System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2006-10-14 9:04:54	DUT Battery Model/No:	
Filename:	PEBBLE_1900Body_Si	Probe Serial Number:	0177
	de_T.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Body tissue
Device Under Test:	PEBBLE	Relative Permittivity:	52.98
Relative Humidity:	44%	Conductivity:	1.531
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR X-axis	-29.14 mm
		Location:	
DUT Position:	PEBBLE_1900Body_Si	Max SAR Y-axis	0.57 mm
	de_T	Location:	
Antenna	build inside	Max E Field:	4.67 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.034 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.022 W/kg
Conversion Factors:	.356 / .356 / .356	SAR Start:	0.006 W/kg
Type of Modulation:	GMSK	SAR End:	0.006 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-3.53 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4





SAR Test PCS 1900 Side (Bottom Channel, With GPRS)

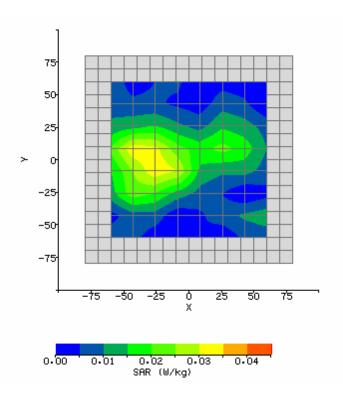
System / software:	SARA2 / 2.39 VPM	Input Power Drift:	0.01dB
Date / Time:	2006-10-14 09:22:288:	DUT Battery Model/No:	
Filename:	PEBBLE_1900Body_Si	Probe Serial Number:	0177
	de_BG.txt		
Ambient Temperature:	23.6°C	Liquid Simulant:	Body tissue
Device Under Test:	PEBBLE	Relative Permittivity:	52.98
Relative Humidity:	45%	Conductivity:	1.531
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR X-axis	-23.45 mm
		Location:	
DUT Position:	PEBBLE_1900Body_Si	Max SAR Y-axis	-5.40 mm
	de_BG	Location:	
Antenna	build inside	Max E Field:	5.85 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.041 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.029 W/kg
Conversion Factors:	.356 / .356 / .356	SAR Start:	0.012 W/kg
Type of Modulation:	GMSK	SAR End:	0.012 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	-0.82 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4





SAR Test PCS 1900 Side (Bottom Channel, With Bluetooth)

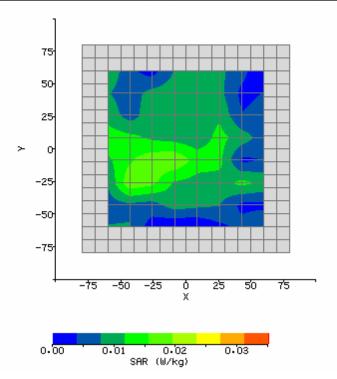
System / software:	SARA2 / 2.39 VPM	Input Power Drift:	0.04dB
			0.0400
Date / Time:	2006-10-14 9:39:09	DUT Battery Model/No:	
Filename:	PEBBLE_1900Body_Si	Probe Serial Number:	0177
	de_BB.txt		
Ambient Temperature:	23.6°C	Liquid Simulant:	Body tissue
Device Under Test:	PEBBLE	Relative Permittivity:	52.98
Relative Humidity:	44%	Conductivity:	1.531
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR X-axis	-33.23 mm
		Location:	
DUT Position:	PEBBLE	Max SAR Y-axis	10.02 mm
	_1900Body_Side_BB	Location:	
Antenna	build inside	Max E Field:	5.40 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.036 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.027 W/kg
Conversion Factors:	.356 / .356 / .356	SAR Start:	0.006 W/kg
Type of Modulation:	GMSK	SAR End:	0.006 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	4.48 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4





SAR Test PCS 1900 Side (Bottom Channel, With GPRS, face to Bottom)

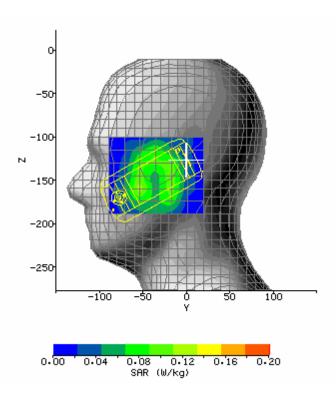
System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2006-10-14 9:56:16	DUT Battery Model/No:	
Filename:	PEBBLE_1900Body_Si	Probe Serial Number:	0177
	de_M.txt		
Ambient Temperature:	23.6°C	Liquid Simulant:	Body tissue
Device Under Test:	PEBBLE	Relative Permittivity:	52.98
Relative Humidity:	44%	Conductivity:	1.531
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR X-axis	-28.56 mm
		Location:	
DUT Position:	PEBBLE	Max SAR Y-axis	-13.24 mm
	_1900Body_Side_M	Location:	
Antenna	build inside	Max E Field:	4.13 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	0.025 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.028 W/kg
Conversion Factors:	.356 / .356 / .356	SAR Start:	0.008 W/kg
Type of Modulation:	GMSK	SAR End:	0.008 W/kg
Modn. Duty Cycle:	8	SAR Drift during Scan:	3.65 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4





SAR Test WIFI 2450 LH_TouchCheek (Bottom Channel, 802.11g)

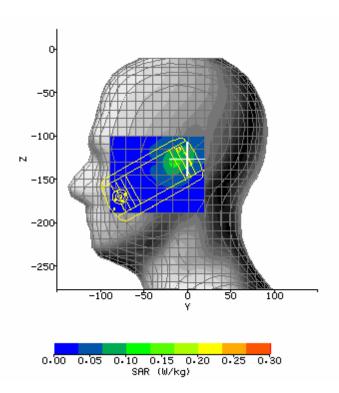
System / software	SARA2 / 2.40 VPM	Innut Dawer Drift	0.02dB
System / software:		Input Power Drift:	U.UZUB
Date / Time:	2006-10-15 10:01:25	DUT Battery Model/No:	
Filename:	PEBBLE_2450LH_Touc	Probe Serial Number:	0177
	hCheek_B.txt		
Ambient Temperature:	23.3°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	39.20
Relative Humidity:	57%	Conductivity:	1.789
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	-51.50 mm
		Location:	
DUT Position:	PEBBLE_2450LH_Touc	Max SAR Z-axis	-157.00 mm
	hCheek_B	Location:	
Antenna	Build inside	Max E Field:	11.40 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	0.163 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.105 W/kg
Conversion Factors:	.353 / .353 / .353	SAR Start:	0.090 W/kg
Type of Modulation:	OFDM	SAR End:	0.088 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	-2.12 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Max power	Extrapolation:	poly4





SAR Test WIFI 2450 LH_TouchCheek (Middle Channel, 802.11g)

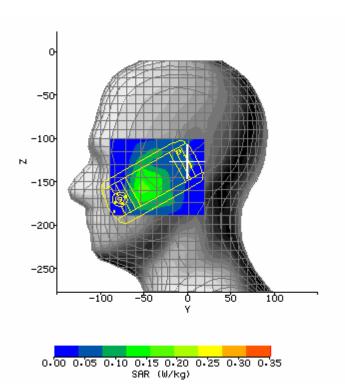
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.14dB
Date / Time:	2006-10-15 10:24:25	DUT Battery Model/No:	
Filename:	PEBBLE_2450LH_Touc	Probe Serial Number:	0177
	hCheek_M.txt		
Ambient Temperature:	23.3°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	39.20
Relative Humidity:	57%	Conductivity:	1.789
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	-44.33 mm
		Location:	
DUT Position:	PEBBLE_2450LH_Touc	Max SAR Z-axis	-158.50 mm
	hCheek_M	Location:	
Antenna	Build inside	Max E Field:	13.88 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	0.239 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.150 W/kg
Conversion Factors:	.353 / .353 / .353	SAR Start:	0.123 W/kg
Type of Modulation:	OFDM	SAR End:	0.123 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	-0.62 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Max power	Extrapolation:	poly4





SAR Test WIFI 2450 LH_TouchCheek (Top Channel, 802.11g)

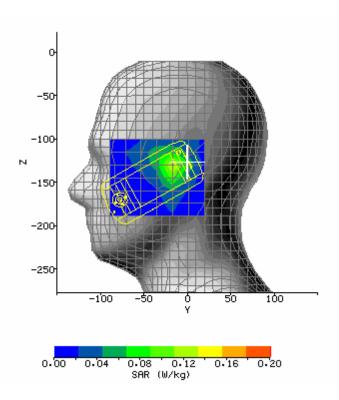
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.08dB
Date / Time:	2006-10-15 10:46:56	DUT Battery Model/No:	
Filename:	PEBBLE_2450LH_Touc	Probe Serial Number:	0177
	hCheek_T.txt		
Ambient Temperature:	23.3°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	39.20
Relative Humidity:	57%	Conductivity:	1.789
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	-46.00 mm
		Location:	
DUT Position:	PEBBLE_2450LH_Touc	Max SAR Z-axis	-160.83 mm
	hCheek_T	Location:	
Antenna	Build inside	Max E Field:	15.12 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	0.279 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.173 W/kg
Conversion Factors:	.353 / .353 / .353	SAR Start:	0.151 W/kg
Type of Modulation:	OFDM	SAR End:	0.158 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	4.52 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Max power	Extrapolation:	poly4





SAR Test WIFI 2450 LH_Tilt15 (Bottom Channel, 802.11g)

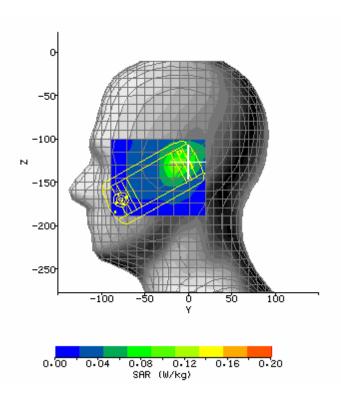
	T		Г
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.07dB
Date / Time:	2006-10-15 08:04:06	DUT Battery Model/No:	
Filename:	PEBBLE_2450LH_Tilt1	Probe Serial Number:	0177
	5_B.txt		
Ambient Temperature:	23.3°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	39.20
Relative Humidity:	57%	Conductivity:	1.789
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	-11.33 mm
		Location:	
DUT Position:	PEBBLE_2450LH_Tilt1	Max SAR Z-axis	-136.83 mm
	5_B	Location:	
Antenna	Build inside	Max E Field:	11.74 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	0.165 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.100 W/kg
Conversion Factors:	.353 / .353 / .353	SAR Start:	0.079 W/kg
Type of Modulation:	OFDM	SAR End:	0.083 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	4.35 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Max power	Extrapolation:	poly4





SAR Test WIFI 2450 LH_Tilt15 (Middle Channel, 802.11g)

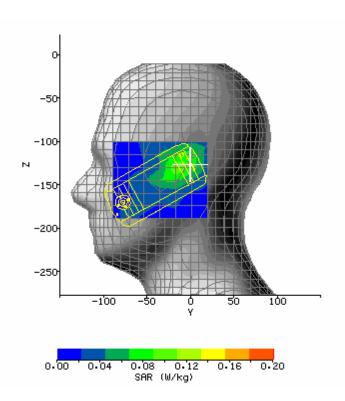
		T	
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.02dB
Date / Time:	2006-10-15 13:58:03	DUT Battery Model/No:	
Filename:	PEBBLE_2450LH_Tilt1	Probe Serial Number:	0177
	5_M.txt		
Ambient Temperature:	23.3°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	39.20
Relative Humidity:	57%	Conductivity:	1.789
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	-5.83 mm
		Location:	
DUT Position:	PEBBLE_2450LH_Tilt1	Max SAR Z-axis	-128.50 mm
	5_M	Location:	
Antenna	Build inside	Max E Field:	11.85 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	0.182 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.106 W/kg
Conversion Factors:	.353 / .353 / .353	SAR Start:	0.075 W/kg
Type of Modulation:	OFDM	SAR End:	0.078 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	3.40 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Max power	Extrapolation:	poly4





SAR Test WIFI 2450 LH_Tilt15 (Top Channel, 802.11g)

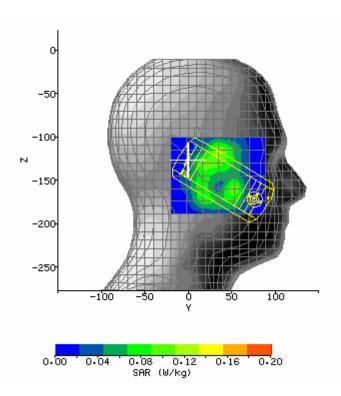
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	-0.11dB
Date / Time:	2006-10-15 14:23:40	DUT Battery Model/No:	
Filename:	PEBBLE_2450LH_Tilt1	Probe Serial Number:	0177
	5_T.txt		
Ambient Temperature:	23.3°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	39.20
Relative Humidity:	57%	Conductivity:	1.789
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	-11.17 mm
		Location:	
DUT Position:	PEBBLE_2450LH_Tilt1	Max SAR Z-axis	-128.50 mm
	5_T	Location:	
Antenna	Build inside	Max E Field:	11.78 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	0.173 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.103 W/kg
Conversion Factors:	.353 / .353 / .353	SAR Start:	0.082 W/kg
Type of Modulation:	OFDM	SAR End:	0.079 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	-3.53 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Max power	Extrapolation:	poly4





SAR Test WIFI 2450 RH_TouchCheek (Bottom Channel, 802.11g)

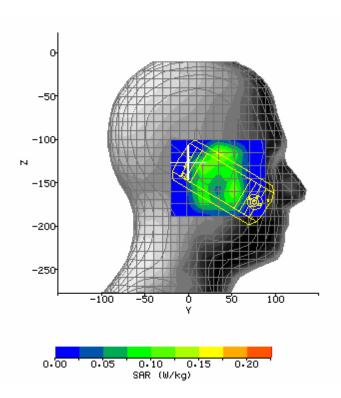
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.06dB
Date / Time:	2006-10-15 14:46:16	DUT Battery Model/No:	
Filename:	PEBBLE_2450RH_Tou	Probe Serial Number:	0177
	chCheek_B.txt		
Ambient Temperature:	23.3°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	39.20
Relative Humidity:	57%	Conductivity:	1.789
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	40.33 mm
		Location:	
DUT Position:	PEBBLE_2450RH_Tou	Max SAR Z-axis	-118.67 mm
	chCheek_B	Location:	
Antenna	Build inside	Max E Field:	11.35 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	0.166 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.101 W/kg
Conversion Factors:	.353 / .353 / .353	SAR Start:	0.074 W/kg
Type of Modulation:	OFDM	SAR End:	0.075 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	1.89 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Max power	Extrapolation:	poly4





SAR Test WIFI 2450 RH_TouchCheek (Middle Channel, 802.11g)

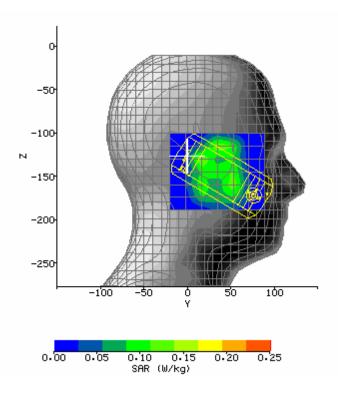
System / software	SARA2 / 2.40 VPM	Innut Dawer Drift	-0.04dB
System / software:		Input Power Drift:	-0.04ub
Date / Time:	2006-10-15 15:34:01	DUT Battery Model/No:	
Filename:	PEBBLE_2450RH_Tou	Probe Serial Number:	0177
	chCheek_M.txt		
Ambient Temperature:	23.3°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	39.20
Relative Humidity:	57%	Conductivity:	1.789
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	36.83 mm
		Location:	
DUT Position:	PEBBLE_2450RH_Tou	Max SAR Z-axis	-122.50 mm
	chCheek_M	Location:	
Antenna	Build inside	Max E Field:	12.66 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	0.212 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.130 W/kg
Conversion Factors:	.353 / .353 / .353	SAR Start:	0.081 W/kg
Type of Modulation:	OFDM	SAR End:	0.080 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	-1.85 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Max power	Extrapolation:	poly4





SAR Test WIFI 2450 RH_TouchCheek (Top Channel, 802.11g)

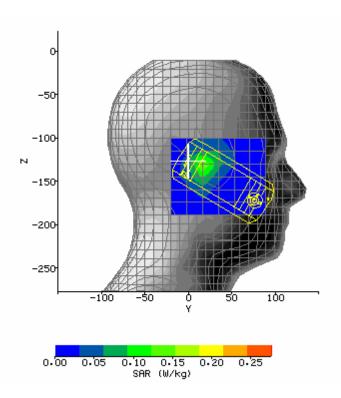
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.02dB
Date / Time:	2006-10-15 15:55:43	DUT Battery Model/No:	
Filename:	PEBBLE_2450RH_Tou	Probe Serial Number:	0177
	chCheek_T.txt		
Ambient Temperature:	23.3°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	39.20
Relative Humidity:	57%	Conductivity:	1.789
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	46.00 mm
		Location:	
DUT Position:	PEBBLE_2450RH_Tou	Max SAR Z-axis	-154.83 mm
	chCheek_T	Location:	
Antenna	Build inside	Max E Field:	13.37 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	0.219 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.134 W/kg
Conversion Factors:	.353 / .353 / .353	SAR Start:	0.113 W/kg
Type of Modulation:	OFDM	SAR End:	0.110 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	-2.13 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Max power	Extrapolation:	poly4





SAR Test WIFI 2450 RH_Tilt15 (Bottom Channel, 802.11g)

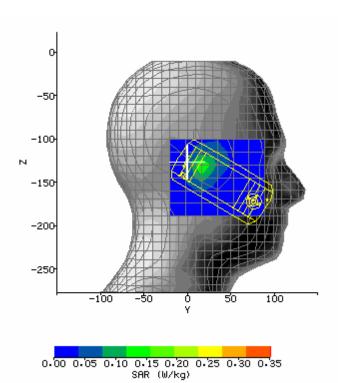
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.06dB
Date / Time:	2006-10-15 16:13:30	DUT Battery Model/No:	
Filename:	PEBBLE_2450RH_Tilt1	Probe Serial Number:	0177
	5_B.txt		
Ambient Temperature:	23.3°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	39.20
Relative Humidity:	57%	Conductivity:	1.789
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	13.17 mm
		Location:	
DUT Position:	PEBBLE_2450RH_Tilt1	Max SAR Z-axis	-131.50 mm
	5_B	Location:	
Antenna	Build inside	Max E Field:	13.43 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	0.218 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.127 W/kg
Conversion Factors:	.353 / .353 / .353	SAR Start:	0.096 W/kg
Type of Modulation:	OFDM	SAR End:	0.097 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	0.86 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Max power	Extrapolation:	poly4





SAR Test WIFI 2450 RH_Tilt15 (Middle Channel, 802.11g)

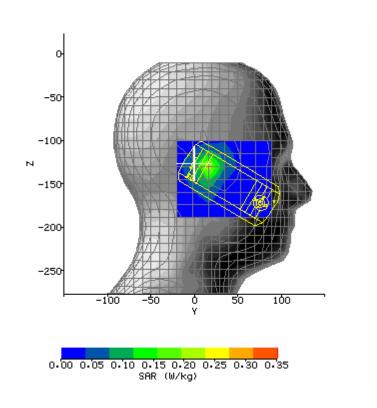
		T	
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	-0.06dB
Date / Time:	2006-10-15 16:32:11	DUT Battery Model/No:	
Filename:	PEBBLE_2450RH_Tilt1	Probe Serial Number:	0177
	5_M.txt		
Ambient Temperature:	23.3°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	39.20
Relative Humidity:	57%	Conductivity:	1.789
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	16.67 mm
		Location:	
DUT Position:	PEBBLE_2450RH_Tilt1	Max SAR Z-axis	-131.50 mm
	5_M	Location:	
Antenna	Build inside	Max E Field:	15.09 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	0.268 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.154 W/kg
Conversion Factors:	.353 / .353 / .353	SAR Start:	0.118 W/kg
Type of Modulation:	OFDM	SAR End:	0.119 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	1.22 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Max power	Extrapolation:	poly4





SAR Test WIFI 2450 RH_Tilt15 (Top Channel, 802.11g)

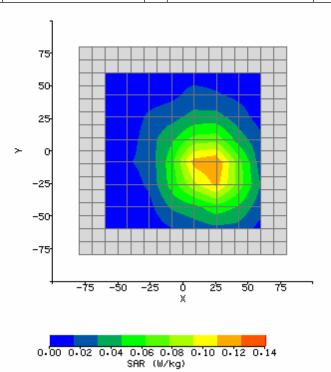
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	-0.03dB
Date / Time:	2006-10-15 16:48:10	DUT Battery Model/No:	
Filename:	PEBBLE_2450RH_Tilt1	Probe Serial Number:	0177
	5_T.txt		
Ambient Temperature:	23.3°C	Liquid Simulant:	Head tissue
Device Under Test:	PEBBLE	Relative Permittivity:	39.20
Relative Humidity:	57%	Conductivity:	1.789
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	180°	Max SAR Y-axis	16.67 mm
		Location:	
DUT Position:	PEBBLE_2450RH_Tilt1	Max SAR Z-axis	-131.50 mm
	5_T	Location:	
Antenna	Build inside	Max E Field:	15.55 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	0.279 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.158 W/kg
Conversion Factors:	.353 / .353 / .353	SAR Start:	0.129 W/kg
Type of Modulation:	OFDM	SAR End:	0.124 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	-3.62 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Max power	Extrapolation:	poly4





SAR Test WIFI 2450 Side (Bottom Channel, 802.11g)

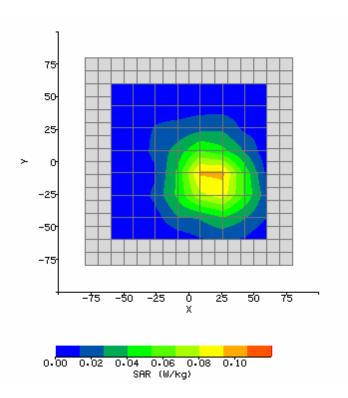
System / software:	SARA2 / 2.40 VPM	Input Bower Drifts	0.06dB
System / software:		Input Power Drift:	U.U0UD
Date / Time:	2006-10-15 17:26:05	DUT Battery Model/No:	
Filename:	Pebble_2450Body_Sid	Probe Serial Number:	0177
	e_B.txt		
Ambient Temperature:	23.3°C	Liquid Simulant:	Body tissue
Device Under Test:	PEBBLE	Relative Permittivity:	52.65
Relative Humidity:	59%	Conductivity:	1.938
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR X-axis	25.90 mm
		Location:	
DUT Position:	Pebble_2450Body_Sid	Max SAR Y-axis	-19.05 mm
	e_B	Location:	
Antenna	Build inside	Max E Field:	11.39 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	0.153 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.105 W/kg
Conversion Factors:	.395 / .395 / .395	SAR Start:	0.038 W/kg
Type of Modulation:	OFDM	SAR End:	0.039 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	4.74 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Max power	Extrapolation:	poly4





SAR Test WIFI 2450 Side (Middle Channel, 802.11g)

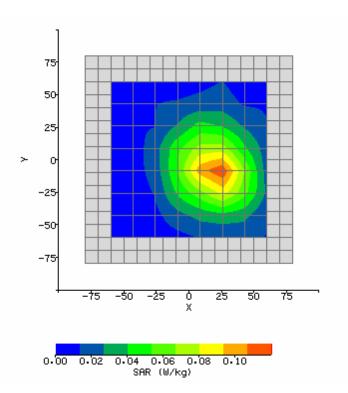
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.06dB
Date / Time:	2006-10-15 17:40:52	DUT Battery Model/No:	
Filename:	Pebble_2450Body_Sid	Probe Serial Number:	0177
	e_M.txt		
Ambient Temperature:	23.3°C	Liquid Simulant:	Body tissue
Device Under Test:	PEBBLE	Relative Permittivity:	52.65
Relative Humidity:	59%	Conductivity:	1.938
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR X-axis	18.86 mm
		Location:	
DUT Position:	Pebble_2450Body_Sid	Max SAR Y-axis	-13.71 mm
	e_M	Location:	
Antenna	Build inside	Max E Field:	10.40 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	0.134 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.086 W/kg
Conversion Factors:	.395 / .395 / .395	SAR Start:	0.026 W/kg
Type of Modulation:	OFDM	SAR End:	0.026 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	-0.49 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Max power	Extrapolation:	poly4





SAR Test WIFI 2450 Side (Top Channel, 802.11g)

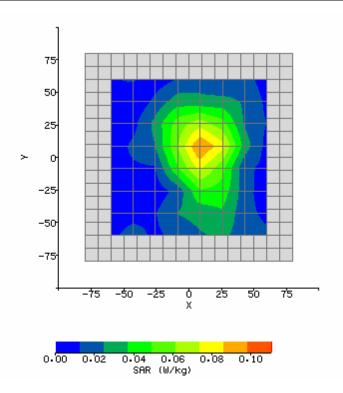
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.06dB
Date / Time:	2006-10-15 17:58:24	DUT Battery Model/No:	
Filename:	Pebble_2450Body_Sid	Probe Serial Number:	0177
	e_T.txt		
Ambient Temperature:	23.3°C	Liquid Simulant:	Body tissue
Device Under Test:	PEBBLE	Relative Permittivity:	52.65
Relative Humidity:	59%	Conductivity:	1.938
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR X-axis	20.57 mm
		Location:	
DUT Position:	Pebble_2450Body_Sid	Max SAR Y-axis	-3.24 mm
	e_T	Location:	
Antenna	Build inside	Max E Field:	10.63 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	0.136 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.089 W/kg
Conversion Factors:	.395 / .395 / .395	SAR Start:	0.033 W/kg
Type of Modulation:	OFDM	SAR End:	0.032 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	-4.73 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Max power	Extrapolation:	poly4





SAR Test WIFI 2450 Side (Top Channel, 802.11g, face to phantom)

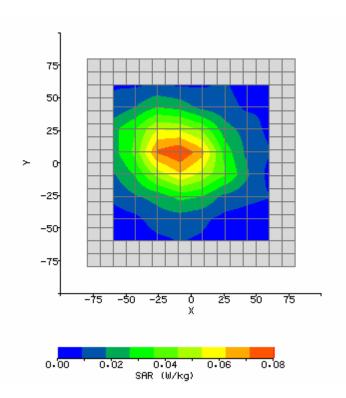
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.04dB
		•	0.0400
Date / Time:	2006-10-15 18:16:25	DUT Battery Model/No:	
Filename:	Pebble_2450Body_Sid	Probe Serial Number:	0177
	e_T1.txt		
Ambient Temperature:	23.3°C	Liquid Simulant:	Body tissue
Device Under Test:	PEBBLE	Relative Permittivity:	52.65
Relative Humidity:	59%	Conductivity:	1.938
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR X-axis	10.29 mm
		Location:	
DUT Position:	Pebble_2450Body_Sid	Max SAR Y-axis	8.57 mm
	e_T1	Location:	
Antenna	Build inside	Max E Field:	8.19 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	0.122 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.081 W/kg
Conversion Factors:	.395 / .395 / .395	SAR Start:	0.035 W/kg
Type of Modulation:	OFDM	SAR End:	0.034 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	-1.50 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Max power	Extrapolation:	poly4





SAR Test WIFI 2450 Side (Top Channel, 802.11g, With Bluetooth)

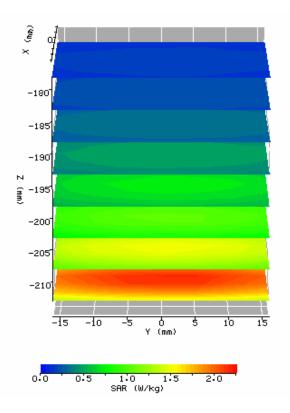
	[
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.02dB
Date / Time:	2006-11-16 10:53:10	DUT Battery Model/No:	
Filename:	Pebble_2450Body_Sid	Probe Serial Number:	0177
	e_T2.txt		
Ambient Temperature:	23.8°C	Liquid Simulant:	Body tissue
Device Under Test:	PEBBLE	Relative Permittivity:	52.65
Relative Humidity:	58%	Conductivity:	1.940
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.6°C
Phantom Rotation:	0°	Max SAR X-axis	-10.29 mm
		Location:	
DUT Position:	Pebble_2450Body_Sid	Max SAR Y-axis	6.86 mm
	e_T2	Location:	
Antenna	Build inside	Max E Field:	8.74 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	0.097 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.064 W/kg
Conversion Factors:	.395 / .395 / .395	SAR Start:	0.029 W/kg
Type of Modulation:	OFDM	SAR End:	0.028 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	-2.54 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	Max power	Extrapolation:	poly4





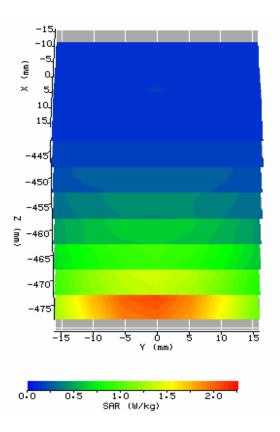
Annex E: System Performance Check Data

System / software:	SARA2 / 2.40 VPM	Input Power Drift:	-0.03dB
Date / Time:	2006-10-13 14:15:12	DUT Battery Model/No:	
Filename:	System Cheek_Head850MHz.txt	Probe Serial Number:	0177
Ambient Temperature:	23.3°C	Liquid Simulant:	Head tissue
Device Under Test:	IXD-090antenna (250mw)	Relative Permittivity:	41.07
Relative Humidity:	59%	Conductivity:	.977
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	5.35 mm
DUT Position:	850_Head	Max SAR Z-axis Location:	-213.02 mm
Antenna Configuration:	IXD-090antenna	Max E Field:	47.03 V/m
Test Frequency:	850MHz	SAR 1g:	2.632 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	1.753 W/kg
Conversion Factors:	.287 / .287 / .287	SAR Start:	0.605 W/kg
Type of Modulation:	1	SAR End:	0.596 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	-1.51 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	24dBm	Extrapolation:	poly4



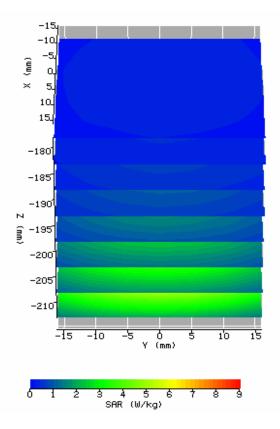


System / software	SARA2 / 2.40 VPM	Innut Dower Drift:	0.02dB
System / software:		Input Power Drift:	U.UZUB
Date / Time:	2006-10-13 14:20:12	DUT Battery Model/No:	
Filename:	System Cheek_Body	Probe Serial Number:	0177
	_850MHz.txt		
Ambient Temperature:	23.5°C	Liquid Simulant:	Body tissue
Device Under Test:	IXD-090antenna	Relative Permittivity:	55.05
	(250mw)		
Relative Humidity:	57%	Conductivity:	1.016
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.3°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:	44.80 V/m
Configuration:			
Test Frequency:	850MHz	SAR 1g:	2.566 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	1.670W/kg
Conversion Factors:	.271 / .271 / .271	SAR Start:	0.538 W/kg
Type of Modulation:	1	SAR End:	0.541 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	0.52 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	24dBm	Extrapolation:	poly4



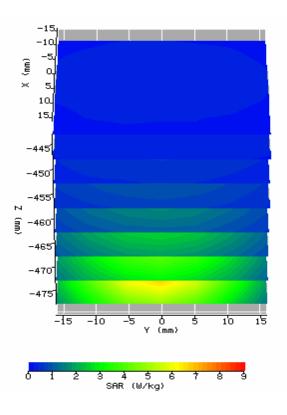


System / software:	SARA2 / 2.40 VPM	Input Power Drift:	-0.01dB
Date / Time:	2006-10-14 7:38:15	DUT Battery Model/No:	0.0102
Filename:	System Cheek_Head	Probe Serial Number:	0177
	_1900MHz.txt		
Ambient Temperature:	23.6°C	Liquid Simulant:	Head tissue
Device Under Test:	IXD-080antenna	Relative Permittivity:	40.04
	(250mw)		
Relative Humidity:	56%	Conductivity:	1.396
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	-213.09 mm
		Location:	
Antenna	IXD-080antenna	Max E Field:	76.86 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	10.288 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	5.715 W/kg
Conversion Factors:	.325 / .325 / .325	SAR Start:	1.600 W/kg
Type of Modulation:	1	SAR End:	1.596 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	-0.19 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	24dBm	Extrapolation:	poly4



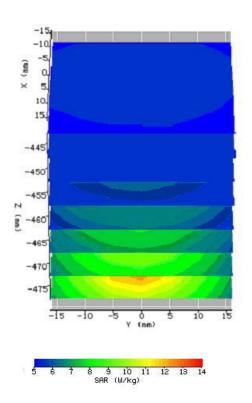


			22/15
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.01dB
Date / Time:	2006-10-14 8:05:23	DUT Battery Model/No:	
Filename:	System Cheek_Body	Probe Serial Number:	0177
	_1900MHz.txt		
Ambient Temperature:	23.6°C	Liquid Simulant:	Head tissue
Device Under Test:	IXD-080antenna	Relative Permittivity:	53.12
	(250mw)		
Relative Humidity:	57%	Conductivity:	1.525
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.0°C
Phantom Rotation:	0°	Max SAR X-axis	0.00 mm
		Location:	
DUT Position:	1900_Body	Max SAR Y-axis	0.00 mm
		Location:	
Antenna	IXD-080antenna	Max E Field:	73.06 V/m
Configuration:			
Test Frequency:	1900MHz	SAR 1g:	10.081 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	5.480 W/kg
Conversion Factors:	.356 / .356 / .356	SAR Start:	1.568 W/kg
Type of Modulation:	1	SAR End:	1.572 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	0.25 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	24dBm	Extrapolation:	poly4





		1	
System / software:	SARA2 / 2.40 VPM	Input Power Drift:	-0.01dB
Date / Time:	2006-10-15 8:41:32	DUT Battery Model/No:	
Filename:	System Cheek_Head	Probe Serial Number:	0177
	_2450MHz.txt		
Ambient Temperature:	23.4°C	Liquid Simulant:	Head tissue
Device Under Test:	IXD-245antenna	Relative Permittivity:	39.20
	(250mw)		
Relative Humidity:	56%	Conductivity:	1.789
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.3°C
Phantom Rotation:	0°	Max SAR Y-axis	0.00 mm
		Location:	
DUT Position:	2450_Head	Max SAR Z-axis	-213.09 mm
		Location:	
Antenna	IXD-245antenna	Max E Field:	85.69 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	13.206 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	7.122 W/kg
Conversion Factors:	.325 / .325 / .325	SAR Start:	1.804 W/kg
Type of Modulation:	1	SAR End:	1.802 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	1.17 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	24dBm	Extrapolation:	poly4





System / software:	SARA2 / 2.40 VPM	Input Power Drift:	0.01dB
Date / Time:	2006-10-15 9:29:45	DUT Battery Model/No:	
Filename:	System Cheek_Body	Probe Serial Number:	0177
	_2450MHz.txt		
Ambient Temperature:	23.4°C	Liquid Simulant:	Head tissue
Device Under Test:	IXD-245antenna	Relative Permittivity:	52.65
	(250mw)		
Relative Humidity:	57%	Conductivity:	1.938
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR X-axis	0.00 mm
		Location:	
DUT Position:	2450_Body	Max SAR Y-axis	0.00 mm
		Location:	
Antenna	IXD-080antenna	Max E Field:	79.08 V/m
Configuration:			
Test Frequency:	2450MHz	SAR 1g:	13.086 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	6.037 W/kg
Conversion Factors:	.395 / .395 / .395	SAR Start:	1.647 W/kg
Type of Modulation:	1	SAR End:	1.648 W/kg
Modn. Duty Cycle:	1	SAR Drift during Scan:	0.93 %
Diode Compression	20 / 20 / 20	Probe battery last	20/05/05
Factors (V*200):		changed:	
Input Power Level:	24dBm	Extrapolation:	poly4

