

No. 2011SAR00004

For

TCT Mobile Limited

GSM/GPRS/EDGE 900/1800 dual band mobile phone

Onyx A

one touch 803A

With

Hardware Version: PIO

Software Version: V415

FCCID: RAD154

Issued Date: 2011-01-24



No. DGA-PL-114/01-02

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of TMC Beijing.

Test Laboratory:

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1 Test Laboratory

1.1 Testing Location

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT Address: No 52, Huayuan beilu, Haidian District, Beijing,P.R.China

Postal Code: 100191

Telephone: +86-10-62304633 Fax: +86-10-62304793

1.2 Testing Environment

Temperature: $18^{\circ}\text{C}\sim25^{\circ}\text{C}$, Relative humidity: $30\%\sim70\%$ Ground system resistance: $<0.5~\Omega$

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.

1.3 Project Data

Project Leader: Qi Dianyuan
Test Engineer: Lin Xiaojun

Testing Start Date: January 20, 2011
Testing End Date: January 21, 2011

1.4 Signature

Lin Xiaojun

(Prepared this test report)

Qi Dianyuan

(Reviewed this test report)

Xiao Li

Deputy Director of the laboratory

(Approved this test report)



2 Client Information

2.1 Applicant Information

Company Name: TCT Mobile Limited

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2.2 Manufacturer Information

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City: Shanghai
Postal Code: 201203
Country: P. R. China

Telephone: 0086-21-61460890 Fax: 0086-21-61460602



3 Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1 About EUT

EUT Description: GSM/GPRS/EDGE 900/1800 dual band mobile phone

Model Name: Onyx A

Marketing Name: one touch 803A

Frequency Band: GSM 850 / PCS 1900

GPRS Multislot Class: 12
GPRS capability Class: B
EGPRS Multislot Class: 12

Note: EDGE only supports GMSK modulation.

3.2 Internal Identification of EUT used during the test

| EUT ID* | SN or IMEI | HW Version | SW Version |
|---------|-----------------|-------------------|------------|
| EUT1 | 012561000000924 | PIO | V415 |

^{*}EUT ID: is used to identify the test sample in the lab internally.

3.3 Internal Identification of AE used during the test

| AE ID* | Description | Model | SN | Manufacturer |
|--------|-------------|--------------|----|--------------|
| AE1 | Battery | CAB31L0000C1 | / | BYD |
| AE2 | Battery | CAB31L0000C2 | / | BAK |
| AE3 | Headset | CCB3160A10C0 | / | Juwei |
| AE4 | Headset | CCB3160A10C3 | / | Lianchuang |

^{*}AE ID: is used to identify the test sample in the lab internally.

4 CHARACTERISTICS OF THE TEST

4.1 Applicable Limit Regulations

EN 50360–2001: Product standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones.

It specifies the maximum exposure limit of **2.0 W/kg** as averaged over any 10 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

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.



4.2 Applicable Measurement Standards

EN 62209-1–2006: Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures –Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz).

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.

OET Bulletin 65 (Edition 97-01) and Supplement C(Edition 01-01): Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits.

IEC 62209-1: Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures –Part 1:Procedure to determine the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)

KDB648474 D01 SAR Handsets Multi Xmiter and Ant, v01r05: SAR Evaluation Considerations for Handsets with Multiple Transmitters and Antennas.

5 OPERATIONAL CONDITIONS DURING TEST

5.1 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 Absolute Radio Frequency Channel Number (ARFCN) 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 30 dB.

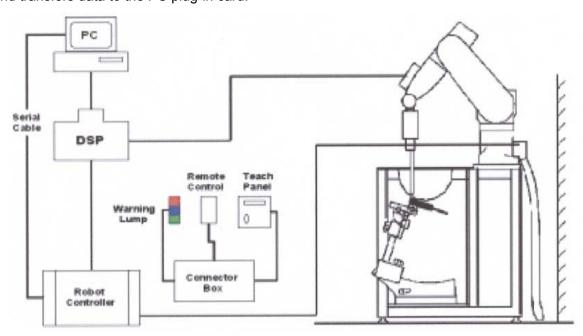
5.2 SAR Measurement Set-up

These measurements were performed with the automated near-field scanning system DASY4 Professional from Schmid & Partner Engineering AG (SPEAG). The system is based on a high precision robot (working range greater than 0.9m), which positions the probes with a positional repeatability of better than \pm 0.02mm. Special E- and H-field probes have been developed for



measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines (length =300mm) to the data acquisition unit.

A cell controller system contains the power supply, robot controller, teaches pendant (Joystick), and remote control, is used to drive the robot motors. The PC consists of the Micron Pentium III 800 MHz computer with Windows 2000 system and SAR Measurement Software DASY4 Professional, A/D interface card, monitor, mouse, and keyboard. The Stäubli Robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card.



Picture 2: SAR Lab Test Measurement Set-up

The DAE consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer.

5.3 Dasy4 E-field Probe System

The SAR measurements were conducted with the dosimetric probe ES3DV3 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe has been calibrated according to the standard procedure with an accuracy of better than \pm 10%. The spherical isotropy was evaluated and found to be better than \pm 0.25dB.



ES3DV3 Probe Specification

Construction Symmetrical design with triangular core

Interleaved sensors

Built-in shielding against static charges

PEEK enclosure material (resistant to organic

solvents, e.g., DGBE)

Calibration Basic Broad Band Calibration in air

Conversion Factors (CF) for HSL 900 and HSL

1810

Additional CF for other liquids and frequencies

upon request



Picture 3: ES3DV3 E-field

Frequency 10 MHz to 4 GHz; Linearity: ± 0.2 dB (30 MHz to 4 GHz)

Directivity ± 0.2 dB in HSL (rotation around probe axis)

± 0.3 dB in tissue material (rotation normal to

probe axis)

Dynamic Range 5 μ W/g to > 100 mW/g; Linearity: \pm 0.2 dB

Dimensions Overall length: 330 mm (Tip: 20 mm)

Tip diameter: 3.9 mm (Body: 12 mm)

Distance from probe tip to dipole centers: 2.0 mm

Application General dosimetry up to 4 GHz

Dosimetry in strong gradient fields Compliance tests of mobile phones



Picture4:ES3DV3 E-field probe

5.4 E-field Probe Calibration

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

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

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



$$\mathbf{SAR} = \mathbf{C} \frac{\Delta T}{\Delta t}$$

Where: $\Delta t = \text{Exposure time (30 seconds)}$,

C = Heat capacity of tissue (brain or muscle),

 ΔT = Temperature increase due to RF

exposure.

Or

$$\mathbf{SAR} = \frac{|\mathbf{E}|^2 \, \sigma}{\rho}$$

Where:

 σ = Simulated tissue conductivity.

 ρ = Tissue density (kg/m³).



Picture 5: Device Holder

5.5 Other Test Equipment

5.5.1 Device Holder for Transmitters

In combination with the Generic Twin Phantom V3.0, the Mounting Device (POM) enables the rotation of the mounted transmitter in spherical coordinates whereby the rotation points is the ear opening. The devices can be easily, accurately, and repeatable positioned according to the FCC and CENELEC specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).

5.5.2 Phantom

robot.

The Generic Twin Phantom is constructed of a fiberglass shell integrated in a wooden table. The shape of the shell is based on data from an anatomical study designed to determine the maximum exposure in at least 90% of all users. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents the evaporation of the liquid. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the

Shell Thickness 2±0. I mm
Filling Volume Approx. 20 liters

Dimensions 810 x 1000 x 500 mm (H x L x W)

Available Special



Picture 6: Generic Twin Phantom



5.6 Equivalent Tissues

The liquid used for the frequency range of 800-2000 MHz consisted of water, sugar, salt, preventol, glycol monobutyl and Cellulose. The liquid has been previously proven to be suited for worst-case. The Table 1 and 2 shows the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the IEEE 1528.

Table 1. Composition of the Head Tissue Equivalent Matter

| MIXTURE % | FREQUENCY 850MHz | | | | |
|------------------------------------|-------------------------|--|--|--|--|
| Water | 41.45 | | | | |
| Sugar | 56.0 | | | | |
| Salt | 1.45 | | | | |
| Preventol | 0.1 | | | | |
| Cellulose | 1.0 | | | | |
| Dielectric Parameters Target Value | f=850MHz ε=41.5 σ=0.90 | | | | |
| MIXTURE % | FREQUENCY 1900MHz | | | | |
| Water | 55.242 | | | | |
| Glycol monobutyl | 44.452 | | | | |
| Salt | 0.306 | | | | |
| Dielectric Parameters Target Value | f=1900MHz ε=40.0 σ=1.40 | | | | |

Table 2. Composition of the Body Tissue Equivalent Matter

| • | • | | | | | |
|------------------------------------|-------------------------|--|--|--|--|--|
| MIXTURE % | FREQUENCY 850MHz | | | | | |
| Water | 52.5 | | | | | |
| Sugar | 45.0 | | | | | |
| Salt | 1.4 | | | | | |
| Preventol | 0.1 | | | | | |
| Cellulose | 1.0 | | | | | |
| Dielectric Parameters Target Value | f=850MHz ε=55.2 σ=0.97 | | | | | |
| MIXTURE % | FREQUENCY 1900MHz | | | | | |
| Water | 69.91 | | | | | |
| Glycol monobutyl | 29.96 | | | | | |
| Salt | 0.13 | | | | | |
| Dielectric Parameters Target Value | f=1900MHz ε=53.3 σ=1.52 | | | | | |

5.7 System Specifications

Specifications

Positioner: Stäubli Unimation Corp. Robot Model: RX90L

Repeatability: ±0.02 mm

No. of Axis: 6

Data Acquisition Electronic (DAE) System

Cell Controller

Processor: Pentium III Clock Speed: 800 MHz



Operating System: Windows 2000

Data Converter

Features:Signal Amplifier, multiplexer, A/D converter, and control logic

Software: DASY4 software

Connecting Lines: Optical downlink for data and status info.

Optical uplink for commands and clock

6 LABORATORY ENVIRONMENT

Table 3: The Ambient Conditions during EMF Test

| Temperature | Min. = 15 °C, Max. = 30 °C |
|---|--|
| Relative humidity | Min. = 30%, Max. = 70% |
| Ground system resistance | < 0.5 Ω |
| Analizat asias is alread and formal const | land and in a configuration with a maintain of standards. Definition of a constant |

Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surround objects is minimized and in compliance with requirement of standards.

7 CONDUCTED OUTPUT POWER MEASUREMENT

7.1 Summary

During the process of testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication tester (CMU-200) to ensure the maximum power transmission and proper modulation. This result contains conducted output power for the EUT. In all cases, the measured output power should be greater and within 5% than EMI measurement.

7.2 Conducted Power

7.2.1 Measurement Methods

The EUT was set up for the maximum output power. The channel power was measured with Agilent Spectrum Analyzer E4440A. These measurements were done at low, middle and high channels.

7.2.2 Measurement result

The conducted power for GSM 850/1900 is as following:

| GSM | Conducted Power (dBm) | | | | | | |
|---------|---|----------------------|------------------------|--|--|--|--|
| 850MHZ | Channel 251(848.8MHz) Channel 190(836.6MHz) Channel 128(824.2MHz) | | | | | | |
| | 32.10 | 32.10 | 32.10 | | | | |
| GSM | Conducted Power (dBm) | | | | | | |
| 1900MHZ | Channel 810(1909.8MHz) | Channel 661(1880MHz) | Channel 512(1850.2MHz) | | | | |
| | 28.84 | 28.95 | 29.46 | | | | |



The conducted power for GPRS and EGPRS 850/1900 is as following:

| GSM 850 | Measured Power (dBm) | | calculation | Avera | Averaged Power (dBm) | | |
|-----------|----------------------|------------|-------------|-------------|----------------------|-----------|-------|
| GPRS | 251 | 190 | 128 | | 251 | 190 | 128 |
| 1 Txslot | 31.56 | 31.61 | 31.60 | -9.03dB | 22.53 | 22.58 | 22.57 |
| 2 Txslots | 29.68 | 29.75 | 29.70 | -6.02dB | 23.66 | 23.73 | 23.68 |
| 3Txslots | 28.16 | 28.23 | 28.21 | -4.26dB | 23.90 | 23.97 | 23.95 |
| 4 Txslots | 26.93 | 27.00 | 26.99 | -3.01dB | 23.92 | 23.99 | 23.98 |
| GSM 850 | Meası | red Power | (dBm) | calculation | Avera | ged Power | (dBm) |
| EGPRS | 251 | 190 | 128 | | 251 | 190 | 128 |
| 1 Txslot | 31.59 | 31.56 | 31.61 | -9.03dB | 22.56 | 22.53 | 22.58 |
| 2 Txslots | 29.66 | 29.69 | 29.75 | -6.02dB | 23.64 | 23.67 | 23.73 |
| 3Txslots | 28.18 | 28.20 | 28.26 | -4.26dB | 23.92 | 23.94 | 24.00 |
| 4 Txslots | 26.96 | 26.98 | 27.02 | -3.01dB | 23.95 | 23.97 | 24.01 |
| PCS1900 | Meası | ured Power | (dBm) | calculation | Averaged Power (dBm) | | |
| GPRS | 810 | 661 | 512 | | 810 | 661 | 512 |
| 1 Txslot | 28.62 | 28.64 | 29.03 | -9.03dB | 19.59 | 19.61 | 20.00 |
| 2 Txslots | 26.59 | 26.57 | 26.99 | -6.02dB | 20.57 | 20.55 | 20.97 |
| 3Txslots | 25.31 | 25.29 | 25.70 | -4.26dB | 21.05 | 21.03 | 21.44 |
| 4 Txslots | 23.72 | 23.67 | 24.08 | -3.01dB | 20.71 | 20.66 | 21.07 |
| PCS1900 | Meası | ured Power | (dBm) | calculation | Avera | ged Power | (dBm) |
| EGPRS | 810 | 661 | 512 | | 810 | 661 | 512 |
| 1 Txslot | 28.57 | 28.65 | 28.99 | -9.03dB | 19.54 | 19.62 | 19.96 |
| 2 Txslots | 26.55 | 26.59 | 26.95 | -6.02dB | 20.53 | 20.57 | 20.93 |
| 3Txslots | 25.27 | 25.31 | 25.66 | -4.26dB | 21.01 | 21.05 | 21.40 |
| 4 Txslots | 23.69 | 23.67 | 24.07 | -3.01dB | 20.68 | 20.66 | 21.06 |

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 4 Txslots for GSM850 and 3 Txslots for PCS1900.

7.2.3 Power Drift

To control the output power stability during the SAR test, DASY4 system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. These drift values can be found in Table 10 to Table 15 labeled as: (Power Drift [dB]). This ensures that the power drift during one measurement is within 5%.



8 TEST RESULTS

8.1 Dielectric Performance

Table 4: Dielectric Performance of Head Tissue Simulating Liquid

Measurement is made at temperature 23.0 °C and relative humidity 34%.

Liquid temperature during the test: 22.5°C

Measurement Date: 850 MHz <u>January 20, 2011</u> 1900 MHz <u>January 21, 2011</u>

| 1 | Frequency | Permittivity ε | Conductivity σ (S/m) |
|-----------------------|-----------|----------------|----------------------|
| Target value | 835 MHz | 41.5 | 0.90 |
| Target value | 1900 MHz | 40.0 | 1.40 |
| Measurement value | 835 MHz | 40.7 | 0.89 |
| (Average of 10 tests) | 1900 MHz | 39.3 | 1.39 |

Table 5: Dielectric Performance of Body Tissue Simulating Liquid

Measurement is made at temperature 23.0 °C and relative humidity 34%.

Liquid temperature during the test: 22.5°C

Measurement Date: 850 MHz January 20, 2011 1900 MHz January 21, 2011

| 1 | Frequency | Permittivity ε | Conductivity σ (S/m) |
|-----------------------|-----------|----------------|----------------------|
| Target value | 835 MHz | 55.2 | 0.97 |
| rarget value | 1900 MHz | 53.3 | 1.52 |
| Measurement value | 835 MHz | 54.5 | 0.94 |
| (Average of 10 tests) | 1900 MHz | 52.4 | 1.52 |

8.2 System Validation

Table 6: System Validation of Head

Measurement is made at temperature 23.0 °C and relative humidity 34%.

Liquid temperature during the test: 22.5°C

Measurement Date: 850 MHz <u>January 20, 2011</u> 1900 MHz <u>January 21, 2011</u>

| | <u> </u> | | | | | | | |
|--------------|-------------------|------------------------|---------|----------------|-----------------|----------------------|---------|--|
| | Dipole | Frequency | | Permittivity ε | | Conductivity σ (S/m) | | |
| | calibration | 835 | 835 MHz | | .6 | 0.92 | | |
| Liquid | Target value | 1900 | MHz | 39 | 0.6 | 1.4 | 10 | |
| parameters | Actural | 835 | MHz | 40.7 | | 0.89 | | |
| | Measurement value | 1900 MHz | | 39.3 | | 1.39 | | |
| | Frequency | Target value (W/kg) | | Measure (W/ | ed value kg) | Devia | ation | |
| Verification | | 10 g | 1 g | 10 g | 1 g | 10 g | 1 g | |
| results | | Average | Average | Average | Average | Average | Average | |
| | 835 MHz | 6.12 | 9.41 | 5.88 | 9.20 | -3.92% | -2.23% | |
| | 1900 MHz | 20.1 | 39.4 | 19.64 | 38.8 | -2.29% | -1.52% | |



Table 7: System Validation of Body

Measurement is made at temperature 23.0 °C and relative humidity 34%.

Liquid temperature during the test: 22.5°C

Measurement Date: 850 MHz January 20, 2011 1900 MHz January 21, 2011

| Measaremen | Model of Mile date . 600 Mile data 1 201 2011 | | | | | | | |
|----------------------|---|------------------------|----------------|--------------------------|----------------|-----------------|----------------|--|
| | Dipole | Frequ | Frequency | | Permittivity ε | | ity σ (S/m) | |
| | calibration | 835 | 835 MHz | | l.5 | 0.97 | | |
| Liquid | Target value | 1900 | MHz | 52 | 2.5 | 1.5 | 51 | |
| parameters | Actural | 835 | 835 MHz | | 54.5 | | 0.94 | |
| | Measurement value | 1900 MHz | | 52.4 | | 1.52 | | |
| F | | Target value (W/kg) | | Measured value (W/kg) | | Deviation | | |
| Verification results | Frequency | 10 g Average | 1 g Average | 10 g Average | 1 g Average | 10 g Average | 1 g Average | |
| | 835 MHz | 6.24 | 9.57 | 6.12 | 9.36 | -1.92% | -2.19% | |
| | 1900 MHz | 20.9 | 41.4 | 20.84 | 41.2 | -0.29% | -0.48% | |

Note: The forward power is 250mW. Target values are the data of the dipole validation results, please check Annex F for the Dipole Calibration Certificate.

8.3 Evaluation of Multi-Batteries

Table 8: Pretest SAR Values (GSM 850 MHz Band)

| Limit of SAR (W/kg) | 10 g Average | 1 g Average | | |
|--|----------------------|-------------|--|--|
| Limit of SAR (W/kg) | 2.0 | 1.6 | | |
| Test Case | Measurement Result (| | | |
| | 10 g Average | 1 g Average | | |
| Left hand, Touch cheek, Top frequency (CAB31L0000C1) | 0.665 | 0.915 | | |
| Left hand, Touch cheek, Top frequency (CAB31L0000C2) | 0.655 | 0.906 | | |

Note: According to the values in the above table, the battery, CAB31L0000C1, is the normal battery. We'll perform the head measurement with this battery and retest on highest value point with others.

Table 9: Pretest SAR Values (GSM 850 MHz Band-Body)

| Limit of SAR (W/kg) | 10 g Average | 1 g Average | | | | | | | |
|--|--------------------------|-------------|--|--|--|--|--|--|--|
| Limit of SAR (W/kg) | 2.0 | 1.6 | | | | | | | |
| Test Case | Measurement Result (W/kg | | | | | | | | |
| | 10 g Average | 1 g Average | | | | | | | |
| Body, Towards Ground, Top frequency (CAB31L0000C1) | 0.690 | 0.956 | | | | | | | |
| Body, Towards Ground, Top frequency (CAB31L0000C2) | 0.669 | 0.923 | | | | | | | |

Note: According to the values in the above table, the battery, CAB31L0000C1, is the normal battery. We'll perform the body measurement with this battery and retest on highest value point with others.



8.4 Summary of Measurement Results

Table 10: SAR Values (850MHz-Head) - with battery CAB31L0000C1

| Limit of SAR (W/kg) | 10 g | 1 g | |
|---|----------|------------|--------|
| Limit of OAK (W/kg) | Average | Average | |
| | 2.0 | 1.6 | Power |
| Test Case | Measurem | ent Result | Drift |
| | (W | /kg) | (dB) |
| | 10 g | 1 g | |
| | Average | Average | |
| Left hand, Touch cheek, Top frequency (See Fig.1) | 0.665 | 0.915 | -0.123 |
| Left hand, Touch cheek, Mid frequency (See Fig.2) | 0.634 | 0.872 | -0.044 |
| Left hand, Touch cheek, Bottom frequency (See Fig.3) | 0.570 | 0.780 | 0.034 |
| Left hand, Tilt 15 Degree, Top frequency (See Fig.4) | 0.334 | 0.447 | -0.021 |
| Left hand, Tilt 15 Degree, Mid frequency (See Fig.5) | 0.330 | 0.440 | -0.037 |
| Left hand, Tilt 15 Degree, Bottom frequency (See Fig.6) | 0.288 | 0.382 | 0.042 |
| Right hand, Touch cheek, Top frequency (See Fig.7) | 0.614 | 0.855 | -0.174 |
| Right hand, Touch cheek, Mid frequency (See Fig.8) | 0.574 | 0.796 | 0.005 |
| Right hand, Touch cheek, Bottom frequency (See Fig.9) | 0.524 | 0.724 | 0.073 |
| Right hand, Tilt 15 Degree, Top frequency (See Fig.10) | 0.313 | 0.419 | 0.003 |
| Right hand, Tilt 15 Degree, Mid frequency (See Fig.11) | 0.304 | 0.404 | -0.014 |
| Right hand, Tilt 15 Degree, Bottom frequency (See Fig.12) | 0.280 | 0.370 | -0.027 |

Table 11: SAR Values (1900MHz-Head) - with battery CAB31L0000C1

| Limit of SAR (W/kg) | 10 g Average | 1 g Average | | | |
|--|------------------------|----------------|--------|--|--|
| | 2.0 | 1.6 | Power | | |
| Test Case | ase Measurement Result | | | | |
| | (W/ | (dB) | | | |
| | 10 g | 1 g | | | |
| | Average | Average | | | |
| Left hand, Touch cheek, Top frequency (See Fig.13) | 0.358 | 0.602 | -0.112 | | |
| Left hand, Touch cheek, Mid frequency (See Fig.14) | 0.313 | 0.524 | -0.139 | | |
| Left hand, Touch cheek, Bottom frequency (See Fig.15) | 0.289 | 0.487 | -0.006 | | |
| Left hand, Tilt 15 Degree, Top frequency (See Fig.16) | 0.124 | 0.216 | -0.070 | | |
| Left hand, Tilt 15 Degree, Mid frequency (See Fig.17) | 0.118 | 0.201 | -0.002 | | |
| Left hand, Tilt 15 Degree, Bottom frequency (See Fig.18) | 0.104 | 0.171 | -0.096 | | |
| Right hand, Touch cheek, Top frequency (See Fig.19) | 0.312 | 0.533 | -0.148 | | |
| Right hand, Touch cheek, Mid frequency (See Fig.20) | 0.277 | 0.471 | 0.033 | | |
| Right hand, Touch cheek, Bottom frequency (See Fig.21) | 0.213 | 0.347 | -0.025 | | |
| Right hand, Tilt 15 Degree, Top frequency (See Fig.22) | 0.148 | 0.263 | -0.154 | | |
| Right hand, Tilt 15 Degree, Mid frequency (See Fig.23) | 0.134 | 0.236 | -0.064 | | |
| Right hand, Tilt 15 Degree, Bottom frequency(See Fig.24) | 0.106 | 0.184 | -0.092 | | |



Table 12: SAR Values (850MHz-Head) - with battery CAB31L0000C2

| Limit of SAR (W/kg) | 10 g Average 2.0 | 1 g Average | Power | | | |
|--|------------------------|----------------|--------|--|--|--|
| Test Case | Measurem (W/ | Drift (dB) | | | | |
| | 10 g Average | 1 g Average | | | | |
| Left hand, Touch cheek, Top frequency (See Fig.25) | 0.655 | 0.906 | -0.166 | | | |

Table 13: SAR Values (850MHz-Body) - with battery CAB31L0000C1

| Limit of SAR (W/kg) | 10 g Average | 1g Average | Power |
|---|-----------------|----------------|--------|
| Test Case | Measu Result | Drift (dB) | |
| | 10 g Average | 1 g Average | |
| Body, Towards Ground, Top frequency with GPRS (See Fig.26) | 0.690 | 0.956 | -0.056 |
| Body, Towards Ground, Mid frequency with GPRS (See Fig.27) | 0.680 | 0.942 | -0.005 |
| Body, Towards Ground, Bottom frequency with GPRS (See Fig.28) | 0.668 | 0.921 | 0.055 |
| Body, Towards Phantom, Top frequency with GPRS (See Fig.29) | 0.604 | 0.820 | 0.030 |
| Body, Towards Phantom, Mid frequency with GPRS (See Fig.30) | 0.591 | 0.799 | 0.007 |
| Body, Towards Phantom, Bottom frequency with GPRS (See Fig.31) | 0.568 | 0.765 | 0.010 |
| Body, Towards Ground, Top frequency with EGPRS (See Fig.32) | 0.662 | 0.912 | -0.081 |
| Body, Towards Ground, Top frequency with Headset_ CCA3160A10C0 (See Fig.33) | 0.266 | 0.376 | 0.001 |
| Body, Towards Ground, Top frequency with Headset_ CCA3160A10C3 (See Fig.34) | 0.473 | 0.653 | -0.005 |

Table 14: SAR Values (1900MHz-Body) - with battery CAB31L0000C1

| Limit of SAR (W/kg) | 10 g Average | 1g Average | |
|--|-----------------|----------------|--------|
| , , | 2.0 | 1.6 | Power |
| Test Case | Measu Result | Drift (dB) | |
| | 10 g Average | 1 g Average | |
| Body, Towards Ground, Top frequency with GPRS (See Fig.35) | 0.249 | 0.410 | -0.189 |



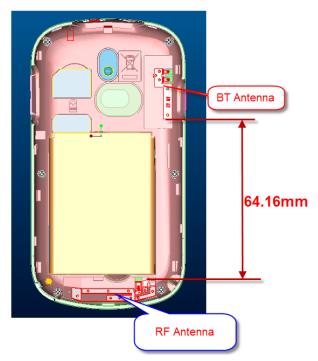
| Body, Towards Ground, Mid frequency with GPRS (See Fig.36) | 0.212 | 0.349 | 0.182 |
|--|-------|-------|--------|
| Body, Towards Ground, Bottom frequency with GPRS (See Fig.37) | 0.167 | 0.275 | 0.176 |
| Body, Towards Phantom, Top frequency with GPRS (See Fig.38) | 0.209 | 0.346 | 0.008 |
| Body, Towards Phantom, Mid frequency with GPRS (See Fig.39) | 0.174 | 0.288 | 0.014 |
| Body, Towards Phantom, Bottom frequency with GPRS (See Fig.40) | 0.148 | 0.245 | -0.100 |
| Body, Towards Ground, Top frequency with EGPRS (See Fig.41) | 0.242 | 0.398 | 0.041 |
| Body, Towards Ground, Top frequency with Headset_CCA3160A10C0 (See Fig.42) | 0.137 | 0.230 | 0.179 |
| Body, Towards Ground, Top frequency with Headset_CCA3160A10C3 (See Fig.43) | 0.201 | 0.335 | -0.121 |

Table 15: SAR Values (850MHz-Body) - with battery CAB31L0000C2

| Limit of SAR (W/kg) | 10 g Average | 1g Average | |
|--|-----------------|---------------|--------|
| | 2.0 | 1.6 | Power |
| Test Case | Measu Result | Drift (dB) | |
| | 10 g | 1 g | |
| | Average | Average | |
| Body, Towards Ground, Top frequency with GPRS (See Fig.44) | 0.669 | 0.923 | -0.028 |

8.5 Summary of Measurement Results (Bluetooth function)

The distance between BT antenna and GSM antenna is >5cm. The location of the antennas inside mobile phone is shown below:





The output power of BT antenna is as following:

| Channel | Ch 0 (2402 MHz) | Ch 39 (2441 MHz) | Ch 78 (2480 MHz) |
|-------------------|-----------------|------------------|------------------|
| Peak Conducted | 7.41 | 6.84 | 6.64 |
| Output Power(dBm) | 7.41 | 0.04 | 0.04 |

According to the output power measurement result and the distance between the two antennas, we can draw the conclusion that: stand-alone SAR and simultaneous transmission SAR are not required for BT transmitter, because the output power of BT transmitter is \leq 2P_{Ref} and its antenna is >5cm from other antenna

Note: Power thresholds (P_{Ref}) is derived from multiples of $0.5 \times 60/f_{(GHz)}$, that is 12mW (10.79dBm) for BT frequency.

8.6 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 4.2 of this report. Maximum localized SAR is below exposure limits specified in the relevant standards cited in Clause 4.1 of this test report.

The maximum SAR values are obtained at the case of GSM 850 Body, Towards Ground, Top frequency with GPRS (Table 13), and the value are: 0.690(10g), 0.956(1g).

9 Measurement Uncertainty

| No. | Error Description | Type | Uncertainty | Probably | Div. | (Ci) | (Ci) | Std. | Std. | Degree |
|-----|-----------------------|------|-------------|--------------|------------|------|------|------|-------|----------|
| | | | value | Distribution | | 1g | 10g | Unc. | Unc. | of |
| | | | | | | | | (1g) | (10g) | freedom |
| Mea | surement system | | | | | | | | | |
| 1 | Probe calibration | В | 5.5 | N | 1 | 1 | 1 | 5.5 | 5.5 | ∞ |
| 2 | Isotropy | В | 4.7 | R | $\sqrt{3}$ | 0.7 | 0.7 | 1.9 | 1.9 | ∞ |
| 3 | Boundary effect | В | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 4 | Linearity | В | 4.7 | R | $\sqrt{3}$ | 1 | 1 | 2.7 | 2.7 | ∞ |
| 5 | Detection limit | В | 1.0 | N | 1 | 1 | 1 | 0.6 | 0.6 | ∞ |
| 6 | Readout electronics | В | 0.3 | R | $\sqrt{3}$ | 1 | 1 | 0.3 | 0.3 | ∞ |
| 7 | Response time | В | 0.8 | R | $\sqrt{3}$ | 1 | 1 | 0.5 | 0.5 | ∞ |
| 8 | Integration time | В | 2.6 | R | $\sqrt{3}$ | 1 | 1 | 1.5 | 1.5 | ∞ |
| 9 | RF ambient | В | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| | conditions-noise | | | | | | | | | |
| 10 | RF ambient | В | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| | conditions-reflection | | | | | | | | | |
| 11 | Probe positioned | В | 0.4 | R | $\sqrt{3}$ | 1 | 1 | 0.2 | 0.2 | ∞ |
| | mech. restrictions | | | | | | | | | |
| 12 | Probe positioning | В | 2.9 | R | $\sqrt{3}$ | 1 | 1 | 1.7 | 1.7 | ∞ |
| | with respect to | | | | | | | | | |



| | phantom shell | | | | | | | | | |
|--|------------------------------|-------------|--|---|------------|------|------|------|------|----------|
| 13 | Post-processing | В | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| Test | sample related | | | | | | | | | |
| 14 | Test sample positioning | A | 3.3 | N | 1 | 1 | 1 | 3.3 | 3.3 | 71 |
| 15 | Device holder uncertainty | A | 3.4 | N | 1 | 1 | 1 | 3.4 | 3.4 | 5 |
| 16 | Drift of output power | В | 5.0 | R | $\sqrt{3}$ | 1 | 1 | 2.9 | 2.9 | ∞ |
| Pha | ntom and set-up | | | | | | | | | |
| 17 | Phantom uncertainty | В | 4.0 | R | $\sqrt{3}$ | 1 | 1 | 2.3 | 2.3 | 8 |
| 18 | Liquid conductivity (target) | В | 5.0 | R | $\sqrt{3}$ | 0.64 | 0.43 | 1.8 | 1.2 | 8 |
| 19 | Liquid conductivity (meas.) | A | 2.06 | N | 1 | 0.64 | 0.43 | 1.32 | 0.89 | 43 |
| 20 | Liquid permittivity (target) | В | 5.0 | R | $\sqrt{3}$ | 0.6 | 0.49 | 1.7 | 1.4 | ∞ |
| 21 | Liquid permittivity (meas.) | A | 1.6 | N | 1 | 0.6 | 0.49 | 1.0 | 0.8 | 521 |
| Combined standard uncertainty | | $u_c^{'} =$ | $= \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$ | | | | | 9.25 | 9.12 | 257 |
| Expanded uncertainty (confidence interval of 95 %) | | 1 | $u_e = 2u_c$ | | | | | 18.5 | 18.2 | |

10 MAIN TEST INSTRUMENTS

Table 12: List of Main Instruments

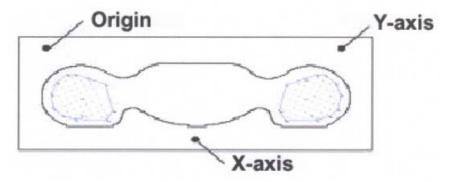
| No. | Name | Туре | Serial Number | Calibration Date | Valid Period |
|-----|-----------------------|---------------|---------------|--------------------------|--------------|
| 01 | Network analyzer | HP 8753E | US38433212 | August 4,2010 | One year |
| 02 | Power meter | NRVD | 102083 | September 11, 2010 | One year |
| 03 | Power sensor | NRV-Z5 | 100542 | | |
| 04 | Signal Generator | E4438C | MY49070393 | November 13, 2010 | One Year |
| 05 | Amplifier | VTL5400 | 0505 | No Calibration Requested | |
| 06 | BTS | 8960 | MY48365192 | November 18, 2010 | One year |
| 07 | E-field Probe | SPEAG ES3DV3 | 3149 | September 25, 2010 | One year |
| 08 | DAE | SPEAG DAE4 | 771 | November 21, 2010 | One year |
| 09 | Dipole Validation Kit | SPEAG D835V2 | 443 | February 26, 2010 | Two years |
| 10 | Dipole Validation Kit | SPEAG D1900V2 | 541 | February 26, 2010 | Two years |



ANNEX A MEASUREMENT PROCESS

The evaluation was performed with the following procedure:

- Step 1: Measurement of the SAR value at a fixed location above the reference point was measured and was used as a reference value for assessing the power drop.
- Step 2: The SAR distribution at the exposed side of the phantom was measured at a distance of 3.9 mm from the inner surface of the shell. The area covered the entire dimension of the flat phantom and the horizontal grid spacing was 10 mm x 10 mm. Based on this data, the area of the maximum absorption was determined by spline interpolation.
- Step 3: Around this point, a volume of 30 mm \times 30 mm \times 30 mm was assessed by measuring 7 \times 7 points. On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:
- a. The data at the surface were extrapolated, since the center of the dipoles is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
- b. The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot"-condition (in $x \sim y$ and z-directions). The volume was integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.
- c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- Step 4: Re-measurement the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation is repeated.



Picture A: SAR Measurement Points in Area Scan



ANNEX B TEST LAYOUT



Picture B1: Specific Absorption Rate Test Layout



Picture B2: Liquid depth in the Flat Phantom (850 MHz)





Picture B3 Liquid depth in the Flat Phantom (1900MHz)



Picture B4: Left Hand Touch Cheek Position





Picture B5: Left Hand Tilt 15° Position



Picture B6: Right Hand Touch Cheek Position



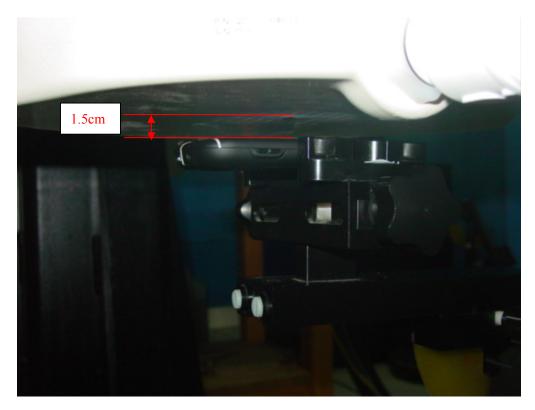


Picture B7: Right Hand Tilt 15° Position

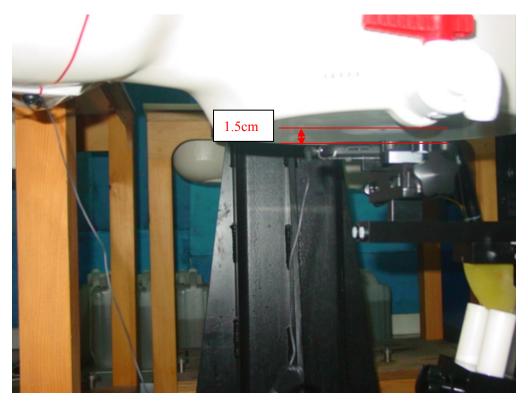


Picture B8: Body-worn Position (towards ground, the distance from handset to the bottom of the Phantom is 1.5cm)





Picture B9: Body-worn Position (towards phantom, the distance from handset to the bottom of the Phantom is 1.5cm)



Picture B10: Body-worn Position with Headset (towards ground, the distance from handset to the bottom of the Phantom is 1.5cm)



ANNEX C GRAPH RESULTS

850 Left Cheek High

Date/Time: 2011-1-20 8:08:24 Electronics: DAE4 Sn771 Medium: Head 850 MHz

Medium parameters used (interpolated): f = 848.8 MHz; $\sigma = 0.91 \text{ mho/m}$; $\epsilon r = 40.6$; $\rho = 1000 \text{ mHz}$

kg/m³

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 850 Frequency: 848.8 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(6.56, 6.56, 6.56)

Cheek High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

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

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.0 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.915 mW/g; SAR(10 g) = 0.665 mW/g

Maximum value of SAR (measured) = 0.970 mW/g

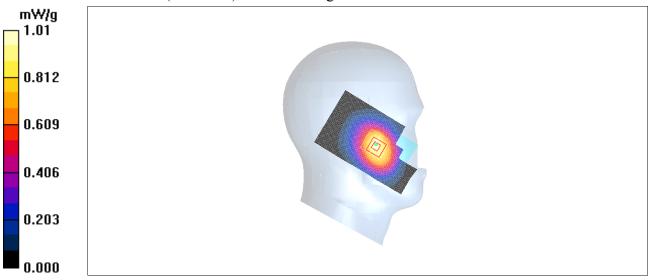


Fig. 1 850MHz CH251



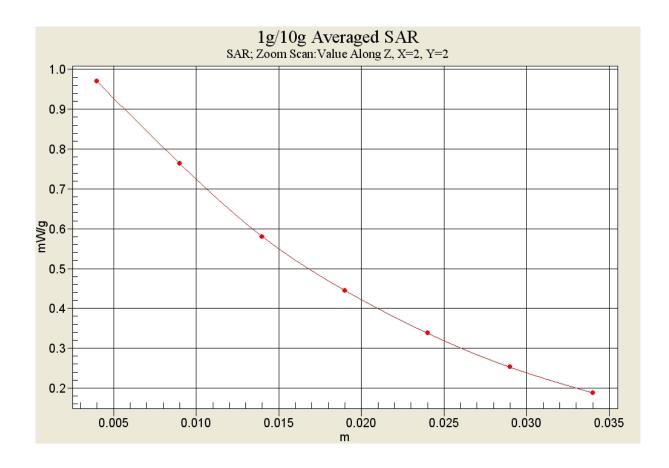


Fig. 1-1 Z-Scan at power reference point (850 MHz CH251)



850 Left Cheek Middle

Date/Time: 2011-1-20 8:22:50 Electronics: DAE4 Sn771 Medium: Head 850 MHz

Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.898$ mho/m; $\epsilon r = 40.7$; $\rho =$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

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

Probe: ES3DV3 - SN3149 ConvF(6.56, 6.56, 6.56)

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.947 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = -0.044 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.872 mW/g; SAR(10 g) = 0.634 mW/g

Maximum value of SAR (measured) = 0.926 mW/g

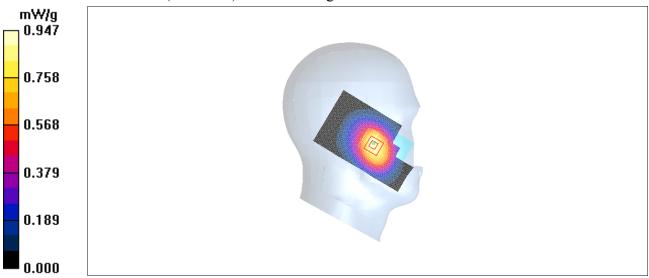


Fig. 2 850 MHz CH190



850 Left Cheek Low

Date/Time: 2011-1-20 8:37:16 Electronics: DAE4 Sn771 Medium: Head 850 MHz

Medium parameters used: f = 825 MHz; $\sigma = 0.886 \text{ mho/m}$; $\epsilon r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

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

Probe: ES3DV3 - SN3149 ConvF(6.56, 6.56, 6.56)

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.846 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.1 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 0.984 W/kg

SAR(1 g) = 0.780 mW/g; SAR(10 g) = 0.570 mW/g

Maximum value of SAR (measured) = 0.827 mW/g

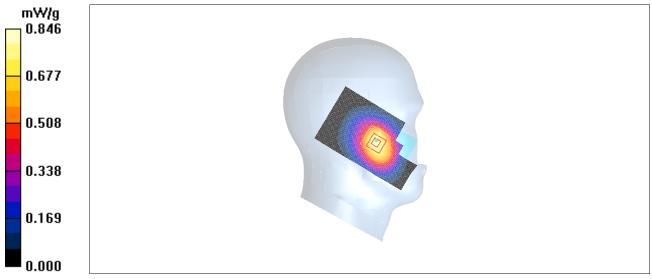


Fig. 3 850 MHz CH128



850 Left Tilt High

Date/Time: 2011-1-20 8:52:49 Electronics: DAE4 Sn771 Medium: Head 850 MHz

Medium parameters used (interpolated): f = 848.8 MHz; $\sigma = 0.91 \text{ mho/m}$; $\epsilon r = 40.6$; $\rho = 1000 \text{ mHz}$

kg/m³

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 850 Frequency: 848.8 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(6.56, 6.56, 6.56)

Tilt High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.478 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.1 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 0.564 W/kg

SAR(1 g) = 0.447 mW/g; SAR(10 g) = 0.334 mW/g

Maximum value of SAR (measured) = 0.472 mW/g

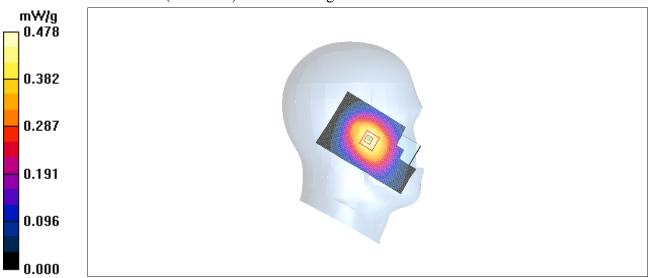


Fig.4 850 MHz CH251



850 Left Tilt Middle

Date/Time: 2011-1-20 9:07:18 Electronics: DAE4 Sn771 Medium: Head 850 MHz

Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.898$ mho/m; $\epsilon r = 40.7$; $\rho =$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

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

Probe: ES3DV3 - SN3149 ConvF(6.56, 6.56, 6.56)

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.470 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.2 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.558 W/kg

SAR(1 g) = 0.440 mW/g; SAR(10 g) = 0.330 mW/g

Maximum value of SAR (measured) = 0.466 mW/g

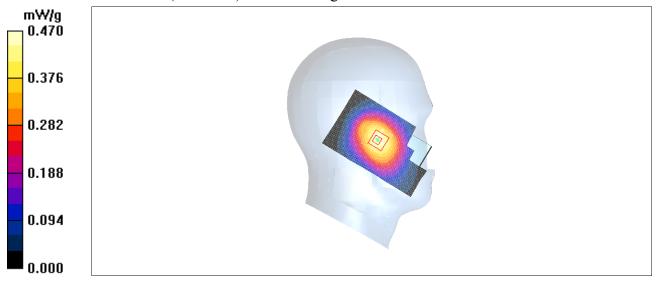


Fig.5 850 MHz CH190



850 Left Tilt Low

Date/Time: 2011-1-20 9:21:37 Electronics: DAE4 Sn771 Medium: Head 850 MHz

Medium parameters used: f = 825 MHz; $\sigma = 0.886 \text{ mho/m}$; $\epsilon r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

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

Probe: ES3DV3 - SN3149 ConvF(6.56, 6.56, 6.56)

Tilt Low/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.404 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.3 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 0.482 W/kg

SAR(1 g) = 0.382 mW/g; SAR(10 g) = 0.288 mW/g

Maximum value of SAR (measured) = 0.403 mW/g

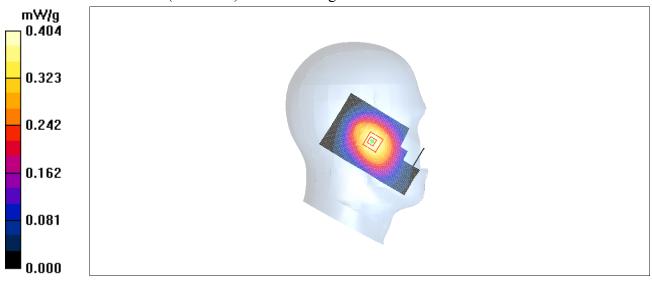


Fig. 6 850 MHz CH128



850 Right Cheek High

Date/Time: 2011-1-20 9:36:11 Electronics: DAE4 Sn771 Medium: Head 850 MHz

Medium parameters used (interpolated): f = 848.8 MHz; $\sigma = 0.91 \text{ mho/m}$; $\epsilon r = 40.6$; $\rho = 1000 \text{ mHz}$

kg/m³

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 850 Frequency: 848.8 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(6.56, 6.56, 6.56)

Cheek High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.943 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.60 V/m; Power Drift = -0.174 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.855 mW/g; SAR(10 g) = 0.614 mW/g

Maximum value of SAR (measured) = 0.896 mW/g

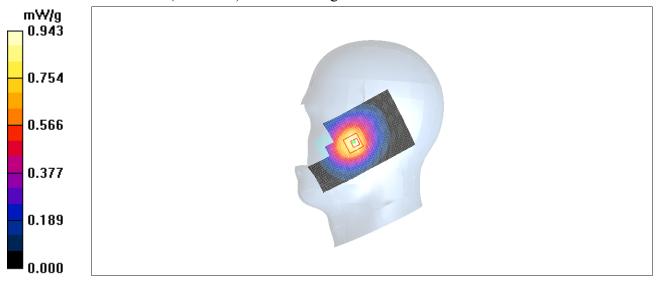


Fig. 7 850 MHz CH251



850 Right Cheek Middle

Date/Time: 2011-1-20 9:50:29 Electronics: DAE4 Sn771 Medium: Head 850 MHz

Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.898$ mho/m; $\epsilon r = 40.7$; $\rho =$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

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

Probe: ES3DV3 - SN3149 ConvF(6.56, 6.56, 6.56)

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.879 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

dz=5mm

Reference Value = 9.23 V/m; Power Drift = 0.005 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.796 mW/g; SAR(10 g) = 0.574 mW/g

Maximum value of SAR (measured) = 0.838 mW/g

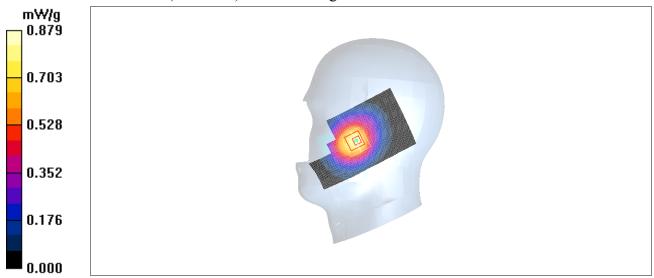


Fig. 8 850 MHz CH190



850 Right Cheek Low

Date/Time: 2011-1-20 10:04:51 Electronics: DAE4 Sn771 Medium: Head 850 MHz

Medium parameters used: f = 825 MHz; $\sigma = 0.886 \text{ mho/m}$; $\epsilon r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

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

Probe: ES3DV3 - SN3149 ConvF(6.56, 6.56, 6.56)

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.795 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.02 V/m; Power Drift = 0.073 dB

Peak SAR (extrapolated) = 0.948 W/kg

SAR(1 g) = 0.724 mW/g; SAR(10 g) = 0.524 mW/g

Maximum value of SAR (measured) = 0.757 mW/g

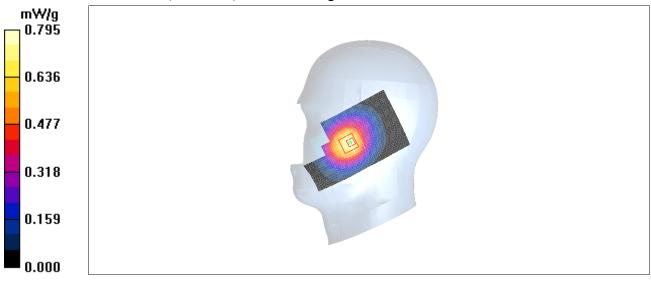


Fig. 9 850 MHz CH128



850 Right Tilt High

Date/Time: 2011-1-20 10:19:25

Electronics: DAE4 Sn771 Medium: Head 850 MHz

Medium parameters used (interpolated): f = 848.8 MHz; $\sigma = 0.91 \text{ mho/m}$; $\epsilon r = 40.6$; $\rho = 1000 \text{ mHz}$

kg/m³

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 850 Frequency: 848.8 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(6.56, 6.56, 6.56)

Tilt High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.443 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.0 V/m; Power Drift = 0.003 dB

Peak SAR (extrapolated) = 0.526 W/kg

SAR(1 g) = 0.419 mW/g; SAR(10 g) = 0.313 mW/g

Maximum value of SAR (measured) = 0.441 mW/g

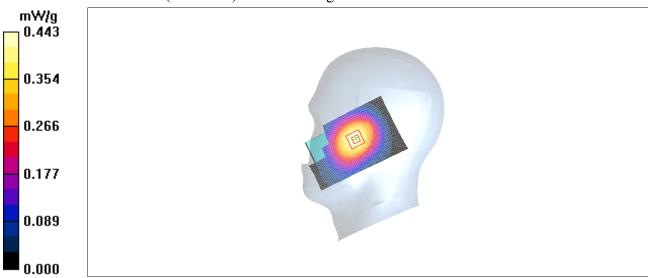


Fig.10 850 MHz CH251



850 Right Tilt Middle

Date/Time: 2011-1-20 10:33:51 Electronics: DAE4 Sn771 Medium: Head 850 MHz

Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.898$ mho/m; $\epsilon r = 40.7$; $\rho =$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

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

Probe: ES3DV3 - SN3149 ConvF(6.56, 6.56, 6.56)

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.429 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.9 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.501 W/kg

SAR(1 g) = 0.404 mW/g; SAR(10 g) = 0.304 mW/g

Maximum value of SAR (measured) = 0.423 mW/g

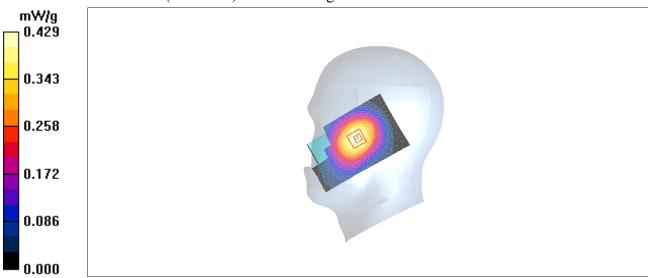


Fig.11 850 MHz CH190



850 Right Tilt Low

Date/Time: 2011-1-20 10:48:17 Electronics: DAE4 Sn771

Medium: Head 850 MHz

Medium parameters used: f = 825 MHz; $\sigma = 0.886 \text{ mho/m}$; $\epsilon r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

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

Probe: ES3DV3 - SN3149 ConvF(6.56, 6.56, 6.56)

Tilt Low/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.394 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.6 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 0.455 W/kg

SAR(1 g) = 0.370 mW/g; SAR(10 g) = 0.280 mW/g

Maximum value of SAR (measured) = 0.386 mW/g

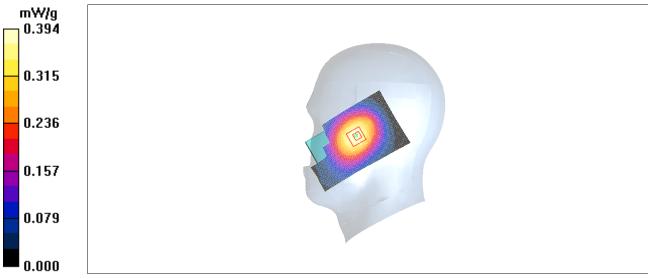


Fig. 12 850 MHz CH128



1900 Left Cheek High

Date/Time: 2011-1-21 8:09:18 Electronics: DAE4 Sn771 Medium: Head 1900 MHz

Medium parameters used: f = 1910 MHz; $\sigma = 1.41 \text{ mho/m}$; $\epsilon r = 39.2$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz Frequency: 1909.8 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(5.03, 5.03, 5.03)

Cheek High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.655 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.46 V/m; Power Drift = -0.112 dB

Peak SAR (extrapolated) = 0.961 W/kg

SAR(1 g) = 0.602 mW/g; SAR(10 g) = 0.358 mW/g

Maximum value of SAR (measured) = 0.640 mW/g

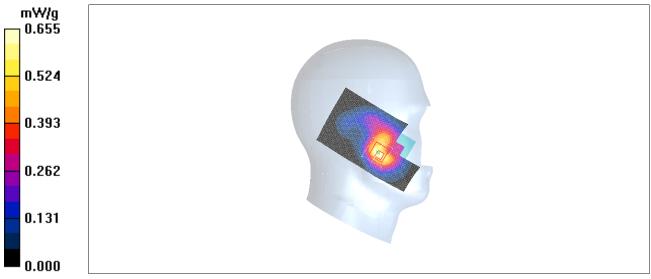


Fig. 13 1900 MHz CH810



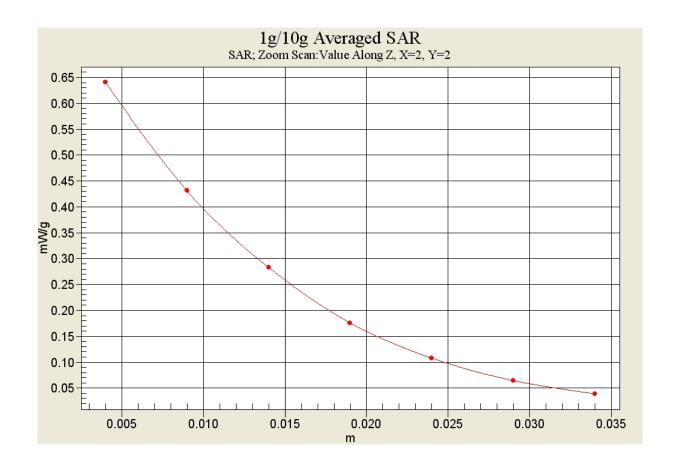


Fig. 13-1 Z-Scan at power reference point (1900 MHz CH810)



1900 Left Cheek Middle

Date/Time: 2011-1-21 8:23:36 Electronics: DAE4 Sn771 Medium: Head 1900 MHz

Medium parameters used: f = 1880 MHz; $\sigma = 1.39 \text{ mho/m}$; $\epsilon r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz Frequency: 1880 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(5.03, 5.03, 5.03)

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.566 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.80 V/m; Power Drift = -0.139 dB

Peak SAR (extrapolated) = 0.824 W/kg

SAR(1 g) = 0.524 mW/g; SAR(10 g) = 0.313 mW/g

Maximum value of SAR (measured) = 0.567 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.80 V/m; Power Drift = -0.139 dB

Peak SAR (extrapolated) = 0.746 W/kg

SAR(1 g) = 0.453 mW/g; SAR(10 g) = 0.278 mW/g

Maximum value of SAR (measured) = 0.538 mW/g

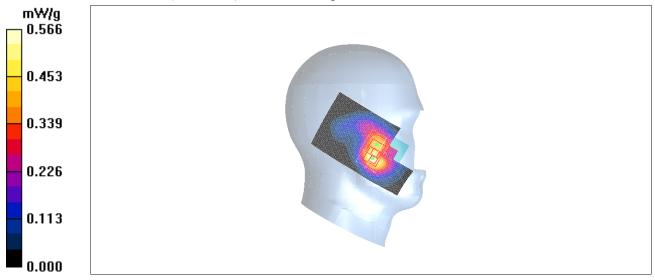


Fig. 14 1900 MHz CH661



1900 Left Cheek Low

Date/Time: 2011-1-21 8:37:54 Electronics: DAE4 Sn771 Medium: Head 1900 MHz

Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma = 1.36$ mho/m; $\epsilon r = 39.4$; $\rho = 1.36$ mho/m; $\epsilon r = 39.4$; $\epsilon r =$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz Frequency: 1850.2 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(5.03, 5.03, 5.03)

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.530 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.12 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 0.756 W/kg

SAR(1 g) = 0.487 mW/g; SAR(10 g) = 0.289 mW/g

Maximum value of SAR (measured) = 0.521 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.12 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 0.687 W/kg

SAR(1 g) = 0.412 mW/g; SAR(10 g) = 0.253 mW/g

Maximum value of SAR (measured) = 0.493 mW/g

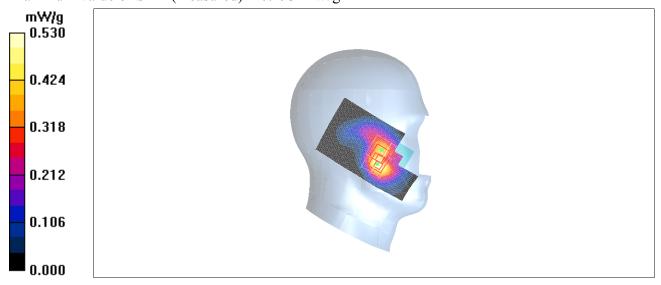


Fig. 15 1900 MHz CH512



1900 Left Tilt High

Date/Time: 2011-1-21 8:52:38 Electronics: DAE4 Sn771 Medium: Head 1900 MHz

Medium parameters used: f = 1910 MHz; $\sigma = 1.41 \text{ mho/m}$; $\epsilon r = 39.2$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz Frequency: 1909.8 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(5.03, 5.03, 5.03)

Tilt High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.245 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.2 V/m; Power Drift = -0.070 dB

Peak SAR (extrapolated) = 0.355 W/kg

SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.124 mW/g

Maximum value of SAR (measured) = 0.231 mW/g

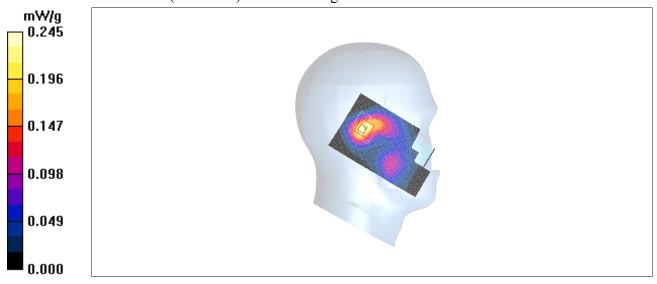


Fig.16 1900 MHz CH810



1900 Left Tilt Middle

Date/Time: 2011-1-21 9:06:52 Electronics: DAE4 Sn771 Medium: Head 1900 MHz

Medium parameters used: f = 1880 MHz; $\sigma = 1.39 \text{ mho/m}$; $\epsilon r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz Frequency: 1880 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(5.03, 5.03, 5.03)

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.229 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.7 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 0.324 W/kg

SAR(1 g) = 0.201 mW/g; SAR(10 g) = 0.118 mW/g

Maximum value of SAR (measured) = 0.218 mW/g

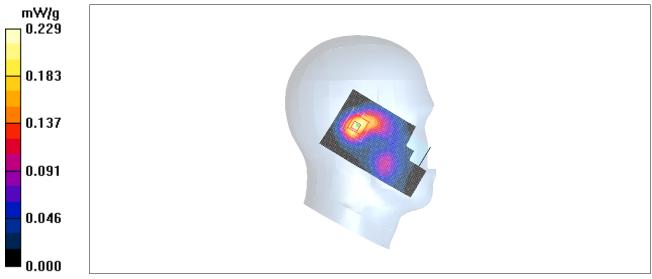


Fig. 17 1900 MHz CH661



1900 Left Tilt Low

Date/Time: 2011-1-21 9:21:20 Electronics: DAE4 Sn771 Medium: Head 1900 MHz

Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma = 1.36$ mho/m; $\epsilon r = 39.4$; $\rho = 1.36$ mho/m; $\epsilon r = 39.4$; $\epsilon r =$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz Frequency: 1850.2 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(5.03, 5.03, 5.03)

Tilt Low/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.201 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.7 V/m; Power Drift = -0.096 dB

Peak SAR (extrapolated) = 0.269 W/kg

SAR(1 g) = 0.171 mW/g; SAR(10 g) = 0.104 mW/g

Maximum value of SAR (measured) = 0.184 mW/g

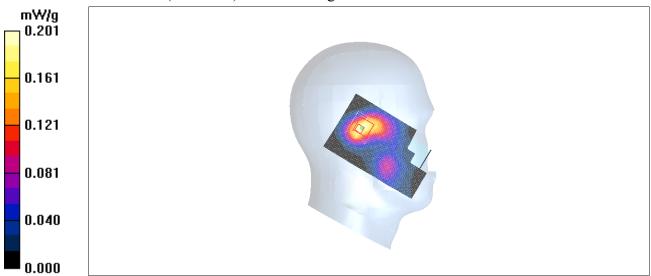


Fig. 18 1900 MHz CH512



1900 Right Cheek High

Date/Time: 2011-1-21 9:36:01 Electronics: DAE4 Sn771 Medium: Head 1900 MHz

Medium parameters used: f = 1910 MHz; $\sigma = 1.41 \text{ mho/m}$; $\epsilon r = 39.2$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz Frequency: 1909.8 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(5.03, 5.03, 5.03)

Cheek High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.581 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.40 V/m; Power Drift = -0.148 dB

Peak SAR (extrapolated) = 0.818 W/kg

SAR(1 g) = 0.533 mW/g; SAR(10 g) = 0.312 mW/g

Maximum value of SAR (measured) = 0.592 mW/g

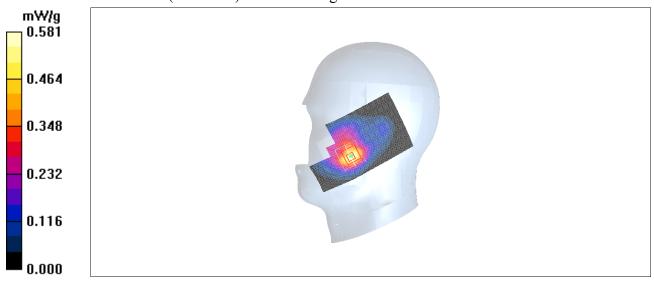


Fig. 19 1900 MHz CH810



1900 Right Cheek Middle

Date/Time: 2011-1-21 9:50:22 Electronics: DAE4 Sn771 Medium: Head 1900 MHz

Medium parameters used: f = 1880 MHz; $\sigma = 1.39 \text{ mho/m}$; $\epsilon r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz Frequency: 1880 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(5.03, 5.03, 5.03)

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.516 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

dz=5mm

Reference Value = 8.45 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 0.727 W/kg

SAR(1 g) = 0.471 mW/g; SAR(10 g) = 0.277 mW/g

Maximum value of SAR (measured) = 0.523 mW/g

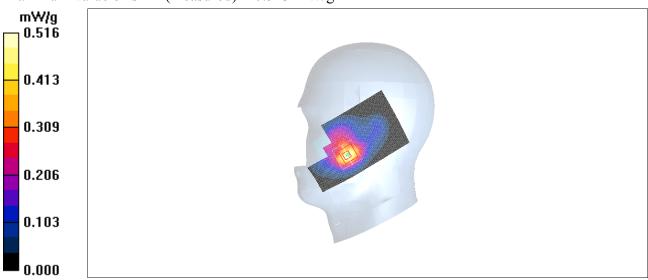


Fig. 20 1900 MHz CH661



1900 Right Cheek Low

Date/Time: 2011-1-21 10:04:40

Electronics: DAE4 Sn771 Medium: Head 1900 MHz

Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma = 1.36$ mho/m; $\epsilon r = 39.4$; $\rho = 1.36$ mho/m; $\epsilon r = 39.4$; $\epsilon r =$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz Frequency: 1850.2 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(5.03, 5.03, 5.03)

Cheek Low/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.384 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.23 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 0.522 W/kg

SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.213 mW/g

Maximum value of SAR (measured) = 0.379 mW/g

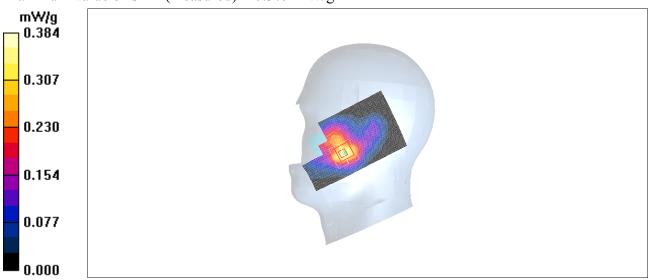


Fig. 21 1900 MHz CH512



1900 Right Tilt High

Date/Time: 2011-1-21 10:19:07

Electronics: DAE4 Sn771 Medium: Head 1900 MHz

Medium parameters used: f = 1910 MHz; $\sigma = 1.41 \text{ mho/m}$; $\epsilon r = 39.2$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz Frequency: 1909.8 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(5.03, 5.03, 5.03)

Tilt High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.301 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.3 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 0.433 W/kg

SAR(1 g) = 0.263 mW/g; SAR(10 g) = 0.148 mW/g

Maximum value of SAR (measured) = 0.282 mW/g

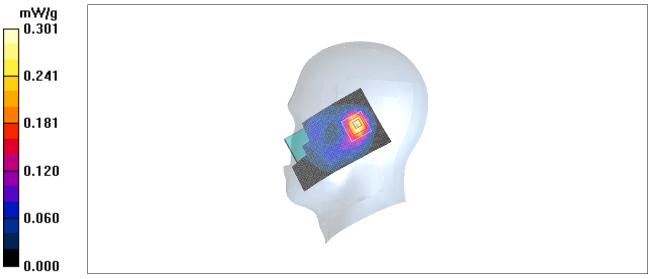


Fig. 22 1900 MHz CH810



1900 Right Tilt Middle

Date/Time: 2011-1-21 10:33:25

Electronics: DAE4 Sn771 Medium: Head 1900 MHz

Medium parameters used: f = 1880 MHz; $\sigma = 1.39 \text{ mho/m}$; $\epsilon r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz Frequency: 1880 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(5.03, 5.03, 5.03)

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.271 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.4 V/m; Power Drift = -0.064 dB

Peak SAR (extrapolated) = 0.385 W/kg

SAR(1 g) = 0.236 mW/g; SAR(10 g) = 0.134 mW/g

Maximum value of SAR (measured) = 0.252 mW/g

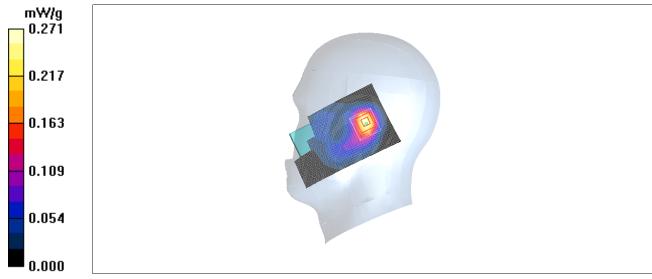


Fig.23 1900 MHz CH661



1900 Right Tilt Low

Date/Time: 2011-1-21 10:47:46

Electronics: DAE4 Sn771 Medium: Head 1900 MHz

Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma = 1.36$ mho/m; $\epsilon r = 39.4$; $\rho = 1.36$ mho/m; $\epsilon r = 39.4$; $\epsilon r =$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz Frequency: 1850.2 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(5.03, 5.03, 5.03)

Tilt Low/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.215 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.9 V/m; Power Drift = -0.092 dB

Peak SAR (extrapolated) = 0.300 W/kg

SAR(1 g) = 0.184 mW/g; SAR(10 g) = 0.106 mW/g

Maximum value of SAR (measured) = 0.197 mW/g

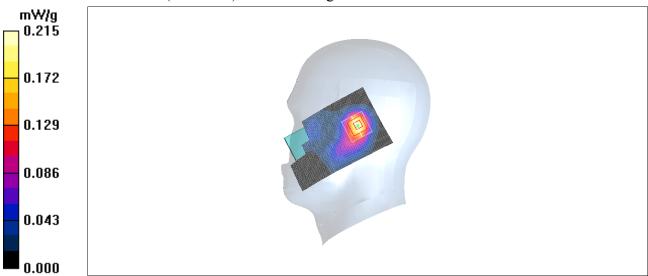


Fig.24 1900 MHz CH512



850 Left Cheek High with battery CAB31L0000C2

Date/Time: 2011-1-20 11:05:33

Electronics: DAE4 Sn771 Medium: Head 850 MHz

Medium parameters used (interpolated): f = 848.8 MHz; $\sigma = 0.91 \text{ mho/m}$; $\epsilon r = 40.6$; $\rho = 1000 \text{ mHz}$

kg/m³

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 850 Frequency: 848.8 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(6.56, 6.56, 6.56)

Cheek High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.994 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.94 V/m; Power Drift = -0.166 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.906 mW/g; SAR(10 g) = 0.655 mW/g

Maximum value of SAR (measured) = 0.959 mW/g

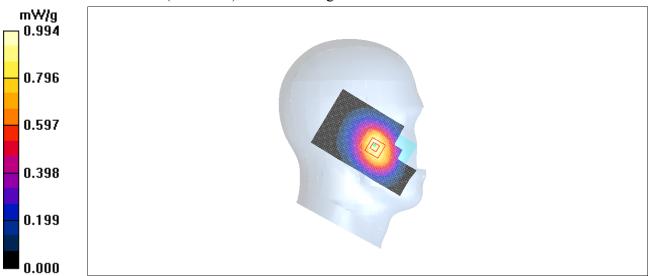


Fig. 25 850MHz CH251



850 Body Towards Ground High with GPRS

Date/Time: 2011-1-20 13:41:09

Electronics: DAE4 Sn771 Medium: Body 850 MHz

Medium parameters used (interpolated): f = 848.8 MHz; $\sigma = 0.96 \text{ mho/m}$; $\epsilon r = 54.4$; $\rho = 1000 \text{ mho/m}$

kg/m³

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 850 GPRS Frequency: 848.8 MHz Duty Cycle: 1:2

Probe: ES3DV3 - SN3149 ConvF(6.22, 6.22, 6.22)

Toward Ground High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

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

Toward Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

dz=5mm

Reference Value = 30.4 V/m; Power Drift = -0.056 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.956 mW/g; SAR(10 g) = 0.690 mW/g

Maximum value of SAR (measured) = 0.985 mW/g

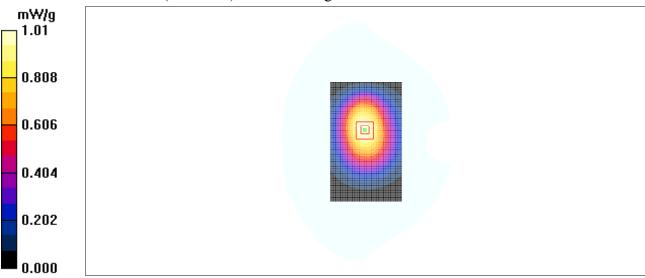


Fig. 26 850 MHz CH251



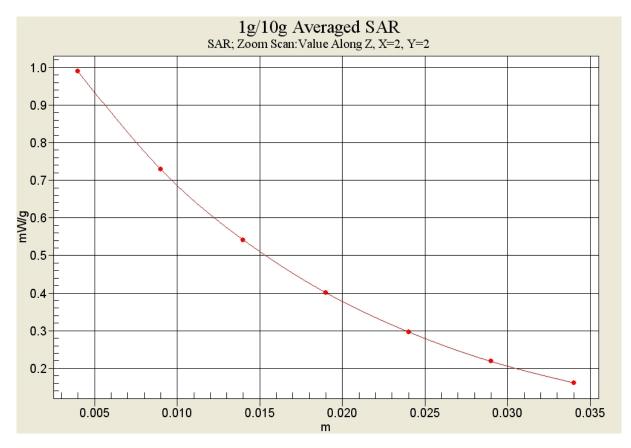


Fig. 26-1 Z-Scan at power reference point (850 MHz CH251)



850 Body Towards Ground Middle with GPRS

Date/Time: 2011-1-20 13:56:30

Electronics: DAE4 Sn771 Medium: Body 850 MHz

Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.95$ mho/m; $\epsilon r = 54.5$; $\rho = 1000$

kg/m³

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 850 GPRS Frequency: 836.6 MHz Duty Cycle: 1:2

Probe: ES3DV3 - SN3149 ConvF(6.22, 6.22, 6.22)

Toward Ground Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.988 mW/g

Toward Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 30.0 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.942 mW/g; SAR(10 g) = 0.680 mW/g

Maximum value of SAR (measured) = 0.966 mW/g

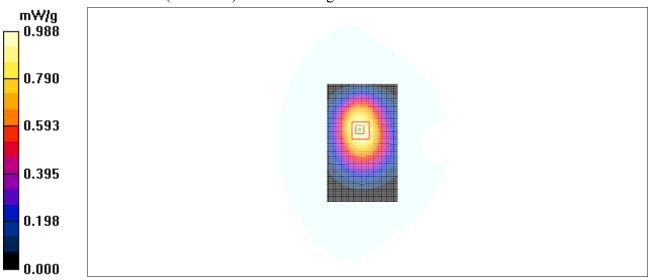


Fig. 27 850 MHz CH190



850 Body Towards Ground Low with GPRS

Date/Time: 2011-1-20 14:11:56

Electronics: DAE4 Sn771 Medium: Body 850 MHz

Medium parameters used: f = 825 MHz; $\sigma = 0.933 \text{ mho/m}$; $\epsilon r = 54.6$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 850 GPRS Frequency: 824.2 MHz Duty Cycle: 1:2

Probe: ES3DV3 - SN3149 ConvF(6.22, 6.22, 6.22)

Toward Ground Low/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.973 mW/g

Toward Ground Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 29.5 V/m; Power Drift = 0.055 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.921 mW/g; SAR(10 g) = 0.668 mW/gMaximum value of SAR (measured) = 0.954 mW/g

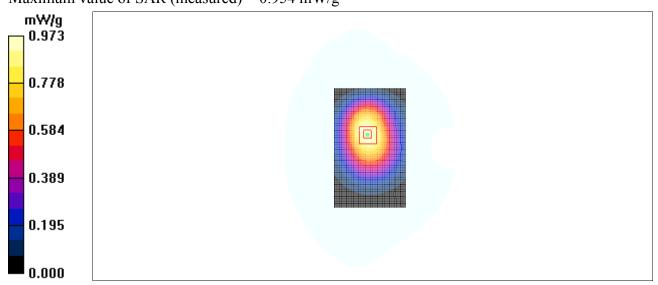


Fig. 28 850 MHz CH128



850 Body Towards Phantom High with GPRS

Date/Time: 2011-1-20 14:28:11 Electronics: DAE4 Sn771 Medium: Body 850 MHz

Medium parameters used (interpolated): f = 848.8 MHz; $\sigma = 0.96 \text{ mho/m}$; $\epsilon r = 54.4$; $\rho = 1000 \text{ mho/m}$

 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 850 GPRS Frequency: 848.8 MHz Duty Cycle: 1:2

Probe: ES3DV3 - SN3149 ConvF(6.22, 6.22, 6.22)

Toward Phantom High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.870 mW/g

Toward Phantom High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.1 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.820 mW/g; SAR(10 g) = 0.604 mW/g

Maximum value of SAR (measured) = 0.853 mW/g

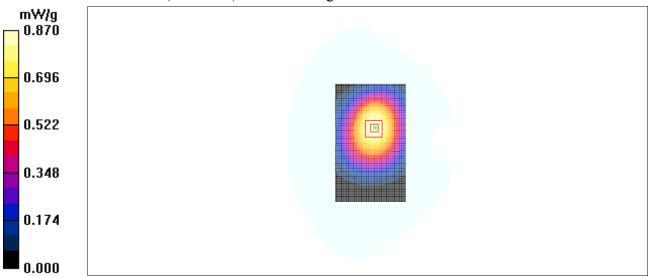


Fig. 29 850 MHz CH251



850 Body Towards Phantom Middle with GPRS

Date/Time: 2011-1-20 14:43:30

Electronics: DAE4 Sn771 Medium: Body 850 MHz

Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.95$ mho/m; $\epsilon r = 54.5$; $\rho = 1000$

kg/m³

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 850 GPRS Frequency: 836.6 MHz Duty Cycle: 1:2

Probe: ES3DV3 - SN3149 ConvF(6.22, 6.22, 6.22)

Toward Phantom Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.840 mW/g

Toward Phantom Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 26.9 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.799 mW/g; SAR(10 g) = 0.591 mW/g

Maximum value of SAR (measured) = 0.831 mW/g

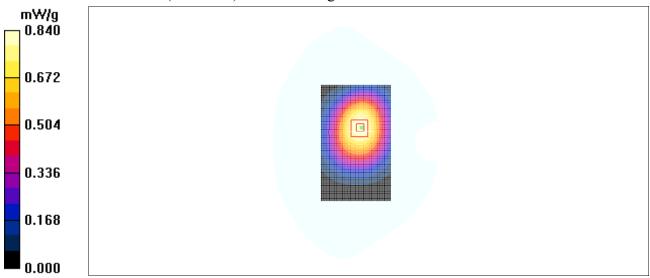


Fig. 30 850 MHz CH190



850 Body Towards Phantom Low with GPRS

Date/Time: 2011-1-20 14:58:52

Electronics: DAE4 Sn771 Medium: Body 850 MHz

Medium parameters used: f = 825 MHz; $\sigma = 0.933 \text{ mho/m}$; $\epsilon r = 54.6$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 850 GPRS Frequency: 824.2 MHz Duty Cycle: 1:2

Probe: ES3DV3 - SN3149 ConvF(6.22, 6.22, 6.22)

Toward Phantom Low/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.810 mW/g

Toward Phantom Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.4 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 0.972 W/kg

SAR(1 g) = 0.765 mW/g; SAR(10 g) = 0.568 mW/gMaximum value of SAR (measured) = 0.788 mW/g

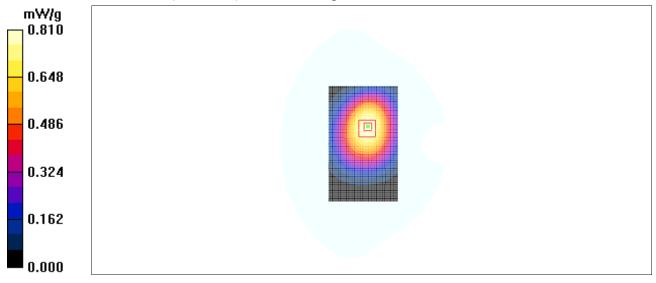


Fig. 31 850 MHz CH128



850 Body Towards Ground High with EGPRS

Date/Time: 2011-1-20 15:15:33

Electronics: DAE4 Sn771 Medium: Body 850 MHz

Medium parameters used (interpolated): f = 848.8 MHz; $\sigma = 0.96 \text{ mho/m}$; $\epsilon r = 54.4$; $\rho = 1000 \text{ mho/m}$

kg/m³

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 850 GPRS Frequency: 848.8 MHz Duty Cycle: 1:2

Probe: ES3DV3 - SN3149 ConvF(6.22, 6.22, 6.22)

Toward Ground High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.971 mW/g

Toward Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 29.7 V/m; Power Drift = -0.081 dB

Peak SAR (extrapolated) = 1.18 W/kgSAR(1 g) = 0.912 mW/g; SAR(10 g) = 0.662 mW/g

Maximum value of SAR (measured) = 0.937 mW/g

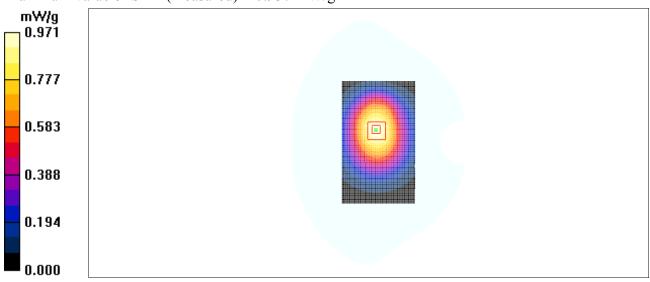


Fig. 32 850 MHz CH251



850 Body Towards Ground High with Headset_CCB3160A10C0

Date/Time: 2011-1-20 15:32:59

Electronics: DAE4 Sn771 Medium: Body 850 MHz

Medium parameters used (interpolated): f = 848.8 MHz; $\sigma = 0.96 \text{ mho/m}$; $\epsilon r = 54.4$; $\rho = 1000 \text{ mho/m}$

kg/m³

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 850 Frequency: 848.8 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(6.22, 6.22, 6.22)

Toward Ground High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.394 mW/g

Toward Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.7 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 0.511 W/kg

SAR(1 g) = 0.376 mW/g; SAR(10 g) = 0.266 mW/g

Maximum value of SAR (measured) = 0.390 mW/g

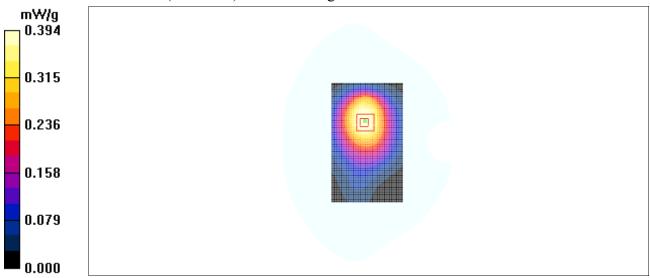


Fig. 33 850 MHz CH251



850 Body Towards Ground High with Headset_CCB3160A10C3

Date/Time: 2011-1-20 15:50:03

Electronics: DAE4 Sn771 Medium: Body 850 MHz

Medium parameters used (interpolated): f = 848.8 MHz; $\sigma = 0.96 \text{ mho/m}$; $\epsilon r = 54.4$; $\rho = 1000 \text{ mho/m}$

 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 850 Frequency: 848.8 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(6.22, 6.22, 6.22)

Toward Ground High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.690 mW/g

Toward Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

dz=5mm

Reference Value = 25.4 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 0.856 W/kg

SAR(1 g) = 0.653 mW/g; SAR(10 g) = 0.473 mW/g

Maximum value of SAR (measured) = 0.672 mW/g

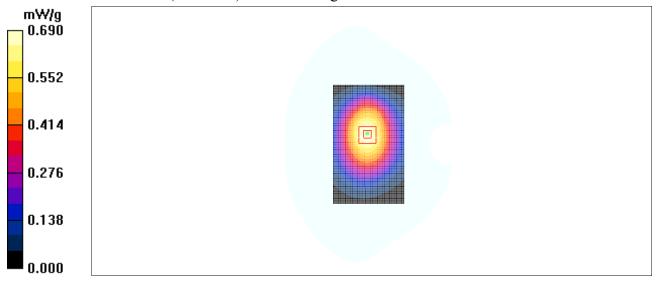


Fig. 34 850 MHz CH251



1900 Body Towards Ground High with GPRS

Date/Time: 2011-1-21 13:45:00

Electronics: DAE4 Sn771 Medium: Body 1900 MHz

Medium parameters used: f = 1910 MHz; $\sigma = 1.53 \text{ mho/m}$; $\epsilon r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz GPRS Frequency: 1909.8 MHz Duty Cycle: 1:2.67

Probe: ES3DV3 - SN3149 ConvF(4.68, 4.68, 4.68)

Toward Ground High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.443 mW/g

Toward Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.75 V/m; Power Drift = -0.189 dB

Peak SAR (extrapolated) = 0.673 W/kg

SAR(1 g) = 0.410 mW/g; SAR(10 g) = 0.249 mW/gMaximum value of SAR (measured) = 0.431 mW/g

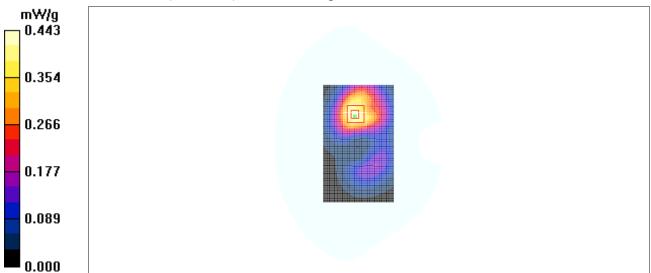


Fig. 35 1900 MHz CH810



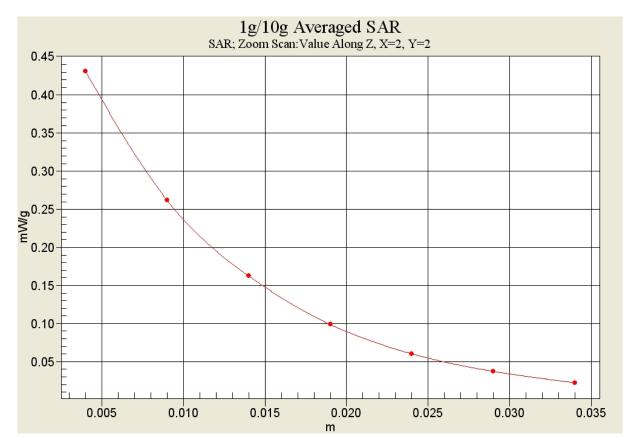


Fig. 35-1 Z-Scan at power reference point (1900 MHz CH810)



1900 Body Towards Ground Middle with GPRS

Date/Time: 2011-1-21 14:00:21 Electronics: DAE4 Sn771 Medium: Body 1900 MHz

Medium parameters used: f = 1880 MHz; $\sigma = 1.50 \text{ mho/m}$; $\epsilon r = 52.5$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:2.67

Probe: ES3DV3 - SN3149 ConvF(4.68, 4.68, 4.68)

Toward Ground Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.376 mW/g

Toward Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.94 V/m; Power Drift = 0.182 dB

Peak SAR (extrapolated) = 0.571 W/kg

SAR(1 g) = 0.349 mW/g; SAR(10 g) = 0.212 mW/gMaximum value of SAR (measured) = 0.360 mW/g

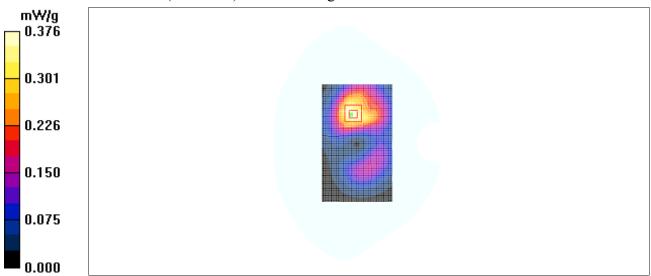


Fig. 36 1900 MHz CH661



1900 Body Towards Ground Low with GPRS

Date/Time: 2011-1-21 14:15:49

Electronics: DAE4 Sn771 Medium: Body 1900 MHz

Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma = 1.48$ mho/m; $\epsilon r = 52.5$; $\rho = 1.48$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz GPRS Frequency: 1850.2 MHz Duty Cycle: 1:2.67

Probe: ES3DV3 - SN3149 ConvF(4.68, 4.68, 4.68)

Toward Ground Low/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.293 mW/g

Toward Ground Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.08 V/m; Power Drift = 0.176 dB

Peak SAR (extrapolated) = 0.451 W/kg

SAR(1 g) = 0.275 mW/g; SAR(10 g) = 0.167 mW/g

Maximum value of SAR (measured) = 0.294 mW/g

Toward Ground Low/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.08 V/m; Power Drift = 0.176 dB

Peak SAR (extrapolated) = 0.451 W/kg

SAR(1 g) = 0.271 mW/g; SAR(10 g) = 0.162 mW/g

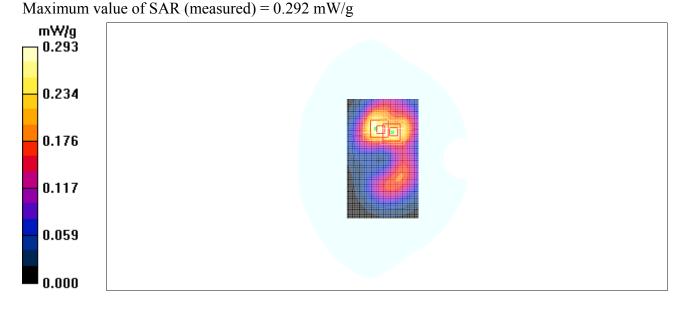


Fig. 37 1900 MHz CH512



1900 Body Towards Phantom High with GPRS

Date/Time: 2011-1-21 14:32:27

Electronics: DAE4 Sn771 Medium: Body 1900 MHz

Medium parameters used: f = 1910 MHz; $\sigma = 1.53 \text{ mho/m}$; $\epsilon r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz GPRS Frequency: 1909.8 MHz Duty Cycle: 1:2.67

Probe: ES3DV3 - SN3149 ConvF(4.68, 4.68, 4.68)

Toward Phantom High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.383 mW/g

Toward Phantom High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm dz=5mm

dy=5mm, dz=5mm

Reference Value = 7.25 V/m; Power Drift = 0.008 dB

Peak SAR (extrapolated) = 0.582 W/kg

SAR(1 g) = 0.346 mW/g; SAR(10 g) = 0.209 mW/gMaximum value of SAR (measured) = 0.363 mW/g

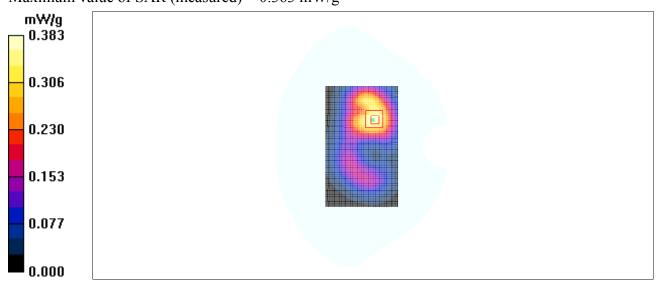


Fig. 38 1900 MHz CH810



1900 Body Towards Phantom Middle with GPRS

Date/Time: 2011-1-21 14:47:43

Electronics: DAE4 Sn771 Medium: Body 1900 MHz

Medium parameters used: f = 1880 MHz; $\sigma = 1.50 \text{ mho/m}$; $\epsilon r = 52.5$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:2.67

Probe: ES3DV3 - SN3149 ConvF(4.68, 4.68, 4.68)

Toward Phantom Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.319 mW/g

Toward Phantom Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.77 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 0.481 W/kg

SAR(1 g) = 0.288 mW/g; SAR(10 g) = 0.174 mW/gMaximum value of SAR (measured) = 0.304 mW/g

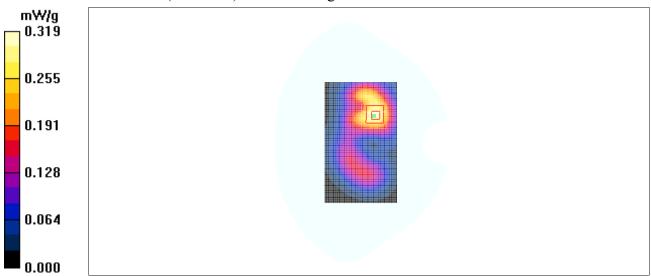


Fig. 39 1900 MHz CH661



1900 Body Towards Phantom Low with GPRS

Date/Time: 2011-1-21 15:03:05

Electronics: DAE4 Sn771 Medium: Body 1900 MHz

Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma = 1.48$ mho/m; $\epsilon r = 52.5$; $\rho = 1.48$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz GPRS Frequency: 1850.2 MHz Duty Cycle: 1:2.67

Probe: ES3DV3 - SN3149 ConvF(4.68, 4.68, 4.68)

Toward Phantom Low/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.272 mW/g

Toward Phantom Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.70 V/m; Power Drift = -0.100 dB

Peak SAR (extrapolated) = 0.406 W/kg

SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.148 mW/g

Maximum value of SAR (measured) = 0.254 mW/g

Toward Phantom Low/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.70 V/m; Power Drift = -0.100 dB

Peak SAR (extrapolated) = 0.403 W/kg

SAR(1 g) = 0.236 mW/g; SAR(10 g) = 0.141 mW/gMaximum value of SAR (measured) = 0.257 mW/g

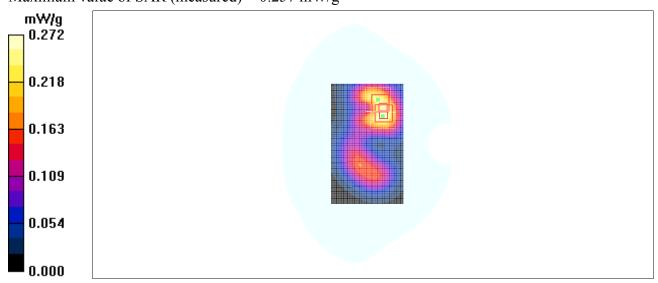


Fig. 40 1900 MHz CH512



1900 Body Towards Ground High with EGPRS

Date/Time: 2011-1-21 15:19:58

Electronics: DAE4 Sn771 Medium: Body 1900 MHz

Medium parameters used: f = 1910 MHz; $\sigma = 1.53 \text{ mho/m}$; $\epsilon r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz GPRS Frequency: 1909.8 MHz Duty Cycle: 1:2.67

Probe: ES3DV3 - SN3149 ConvF(4.68, 4.68, 4.68)

Toward Ground High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.438 mW/g

Toward Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.01 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 0.659 W/kg

SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.242 mW/g

Maximum value of SAR (measured) = 0.420 mW/g

Toward Ground High/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.01 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 0.605 W/kg

SAR(1 g) = 0.351 mW/g; SAR(10 g) = 0.205 mW/g

Maximum value of SAR (measured) = 0.391 mW/g

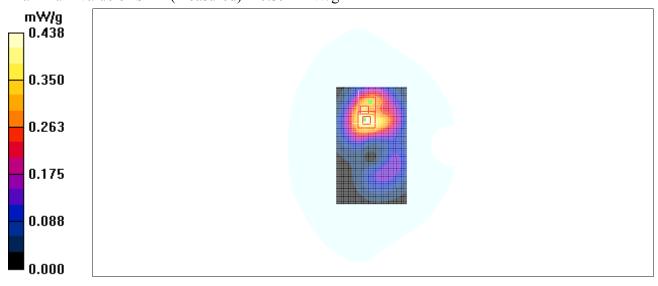


Fig. 41 1900 MHz CH810