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Appendix 5. Validation of System

Prior to the assessment, the system was verified in the flat region of the phantom.

A 1900 MHz dipole was used. A forward power of 250 mW was applied to the dipole and the system was verified to a tolerance of $\pm 5\%$ for the 1900 MHz dipole. The applicable verification (normalised to 1 Watt).

Date:15/02/2009

Validation Dipole and Serial Number:D1900V2:SN:540

| Simulant | Frequency (MHz) | Room Temperature | Liquid Temperature | Parameters | Target Value | Measured Value | Deviation (%) | Limit (%) | | |
|----------|--------------------|---------------------|-----------------------|----------------|-----------------|-------------------|---------------------|--------------|------|------|
| | | | | ε _r | 40.00 | 39.87 | -0.32 | 5.00 | | |
| Head | 1900 | 25.0 °C | 25.0 °C | 25.0.℃ | 25.0 °C | 25.0 °C | 25.0 °C σ 1.40 1.46 | 1.46 | 4.06 | 5.00 |
| ricad | 1000 | 20.0 0 | | 1g SAR | 36.10 | 37.04 | 2.60 | 5.00 | | |
| | | | | 10g SAR | 19.30 | 18.84 | -2.38 | 5.00 | | |

Date:15/02/2009

Validation Dipole and Serial Number:D1900V2:SN:540

| Simulant | Frequency (MHz) | Room Temperature | Liquid Temperature | Parameters | Target Value | Measured Value | Deviation (%) | Limit (%) | | |
|----------|--------------------|---------------------|-----------------------|----------------|-----------------|-------------------|---------------|--------------|------|------|
| | | | | ε _r | 53.30 | 51.21 | -3.92 | 5.00 | | |
| Body | 1900 | 25.0 °C | 25.0.℃ | 25.0.℃ | 25.0 °C | σ | 1.52 | 1.59 | 4.55 | 5.00 |
| Body | 20.0 0 20.0 0 | 20.0 | 1g SAR | 38.00 | 39.48 | 3.89 | 5.00 | | | |
| | | | | 10g SAR | 20.70 | 20.00 | -3.38 | 5.00 | | |

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Appendix 6. Simulated Tissues

The body mixture consists of water and glycol. Visual inspection is made to ensure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the tissue.

| Ingredient | Frequency |
|-----------------------------|-----------------------|
| | 1800/1900 MHz Body |
| De-Ionised Water | 69.79% |
| Diglycol Butyl Ether (DGBE) | 30.00% |
| Salt | 0.20% |

| Ingredient | Frequency |
|-----------------------------|-----------------------|
| | 1800/1900 MHz Head |
| De-Ionised Water | 55.41% |
| Diglycol Butyl Ether (DGBE) | 44.51% |
| Salt | 0.08% |

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Appendix 7. DASY4 System Details

A.7.1. DASY4 SAR Measurement System

RFI Global Services Ltd, SAR measurement facility utilises the Dosimetric Assessment System (DASY™) manufactured by Schmid & Partner Engineering AG (SPEAG™) of Zurich, Switzerland. The DASY4 system is comprised of the robot controller, computer, near-field probe, probe alignment sensor, and the SAM phantom containing brain or muscle equivalent material. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF). A cell controller system contains the power supply, robot controller; teach pendant (Joystick), and remote control. This is used to drive the robot motors. The Staubli robot is connected to the cell controller to allow software manipulation of the robot. The data acquisition electronics (DAE) performs signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection etc. The DAE 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. The DAE3 utilises a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching mulitplexer, 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.

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A.7.2. DASY4 SAR System Specifications

Robot System

| Positioner: | Stäubli Unimation Corp. Robot Model: RX90L |
|-----------------------|--|
| Repeatability: | 0.025 mm |
| No. of Axis: | 6 |
| Serial Number: | F00/SD89A1/A/01 |
| Reach: | 1185 mm |
| Payload: | 3.5 kg |
| Control Unit: | CS7 |
| Programming Language: | V+ |

Data Acquisition Electronic (DAE) System

| Serial Number: | DAE3 SN:394 |
|----------------|-------------|
|----------------|-------------|

PC Controller

| PC: | Dell Precision 340 | |
|-------------------|--------------------------|--|
| Operating System: | Windows 2000 | |
| Data Card: | DASY4 Measurement Server | |
| Serial Number: | 1080 | |

Data Converter

| Features: | Signal Amplifier, multiplexer, A/D converted and control logic. | | |
|-------------------|---|--|--|
| Software: | DASY4 Software | | |
| Connecting Lines: | Optical downlink for data and status info. Optical uplink for commands and clock. | | |

PC Interface Card

| 24 bit (64 MHz) DSP for real time processing Link to DAE3 16 nit A/D converter for surface detection system serial link |
|---|
| to robot direct emergency stop output for robot. |

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DASY4 SAR System Specifications (Continued)

E-Field Probe

| Model: | EX3DV3 |
|-----------------------|---------------------------|
| Serial No: | 3508 |
| Construction: | Triangular core |
| Frequency: | 10 MHz to >6 GHz |
| Linearity: | ±0.2 dB (30 MHz to 6 GHz) |
| Probe Length (mm): | 330 |
| Probe Diameter (mm): | 12 |
| Tip Length (mm): | 20 |
| Tip Diameter (mm): | 2.5 |
| Sensor X Offset (mm): | 1 |
| Sensor Y Offset (mm): | 1 |
| Sensor Z Offset (mm): | 1 |

Phantom

| Phantom: | SAM Phantom |
|-----------------|-------------|
| Shell Material: | Fibreglass |
| Thickness: | 2.0 ±0.1 mm |