

### Appendix 3. SAR Distribution Scans

This appendix contains SAR distribution scans which are not included in the total number of pages for this report.

| Scan Reference Number | Title                                                            |
|-----------------------|------------------------------------------------------------------|
| SCN/81350JD01/001     | Tilt Left CDMA2000 BC0 US CH384                                  |
| SCN/81350JD01/002     | Tilt Right CDMA2000 BC0 US CH384                                 |
| SCN/81350JD01/003     | Touch Left & Right Using Flat Section CDMA2000 BC0 US CH384      |
| SCN/81350JD01/004     | Touch Left & Right Using Flat Section CDMA2000 BC0 US CH1013     |
| SCN/81350JD01/005     | Touch Left & Right Using Flat Section CDMA2000 BC0 US CH777      |
| SCN/81350JD01/006     | Front of EUT Closed Facing Phantom CDMA2000 BC0 US CH384         |
| SCN/81350JD01/007     | Rear of EUT Closed Facing Phantom CDMA2000 BC0 US CH384          |
| SCN/81350JD01/008     | Front of EUT Open Facing Phantom CDMA2000 BC0 US CH384           |
| SCN/81350JD01/009     | Rear of EUT Open Facing Phantom CDMA2000 BC0 US CH384            |
| SCN/81350JD01/010     | EUT Screen Swivel & Display Facing Phantom CDMA2000 BC0 US CH384 |
| SCN/81350JD01/011     | Rear of EUT Closed Facing Phantom CDMA2000 BC0 US CH1013         |
| SCN/81350JD01/012     | Rear of EUT Closed Facing Phantom CDMA2000 BC0 US CH777          |
| SCN/81350JD01/013     | Rear of EUT Closed Facing Phantom With PHF CDMA2000 BC0 US CH777 |
| SCN/81350JD01/014     | Touch Left PCS CH660                                             |
| SCN/81350JD01/015     | Tilt Left PCS CH660                                              |
| SCN/81350JD01/016     | Touch Right PCS CH660                                            |
| SCN/81350JD01/017     | Tilt Right PCS CH660                                             |
| SCN/81350JD01/018     | Touch Left PCS CH512                                             |
| SCN/81350JD01/019     | Touch Left PCS CH810                                             |
| SCN/81350JD01/020     | Front of EUT Closed Facing Phantom GPRS CH660                    |
| SCN/81350JD01/021     | Rear of EUT Closed Facing Phantom GPRS CH660                     |
| SCN/81350JD01/022     | Front of EUT Open Facing Phantom GPRS CH660                      |
| SCN/81350JD01/023     | Rear of EUT Open Facing Phantom GPRS CH660                       |
| SCN/81350JD01/024     | EUT Screen Swivel & Display Facing Phantom GPRS CH660            |
| SCN/81350JD01/025     | Rear of EUT Closed Facing Phantom GPRS CH512                     |
| SCN/81350JD01/026     | Rear of EUT Closed Facing Phantom GPRS CH810                     |
| SCN/81350JD01/027     | Rear of EUT Closed With PHF Facing Phantom GPRS CH660            |
| SCN/81350JD01/028     | Rear of EUT Open Facing Phantom PCS CH660                        |

**SAR Distribution Scans (Continued)**

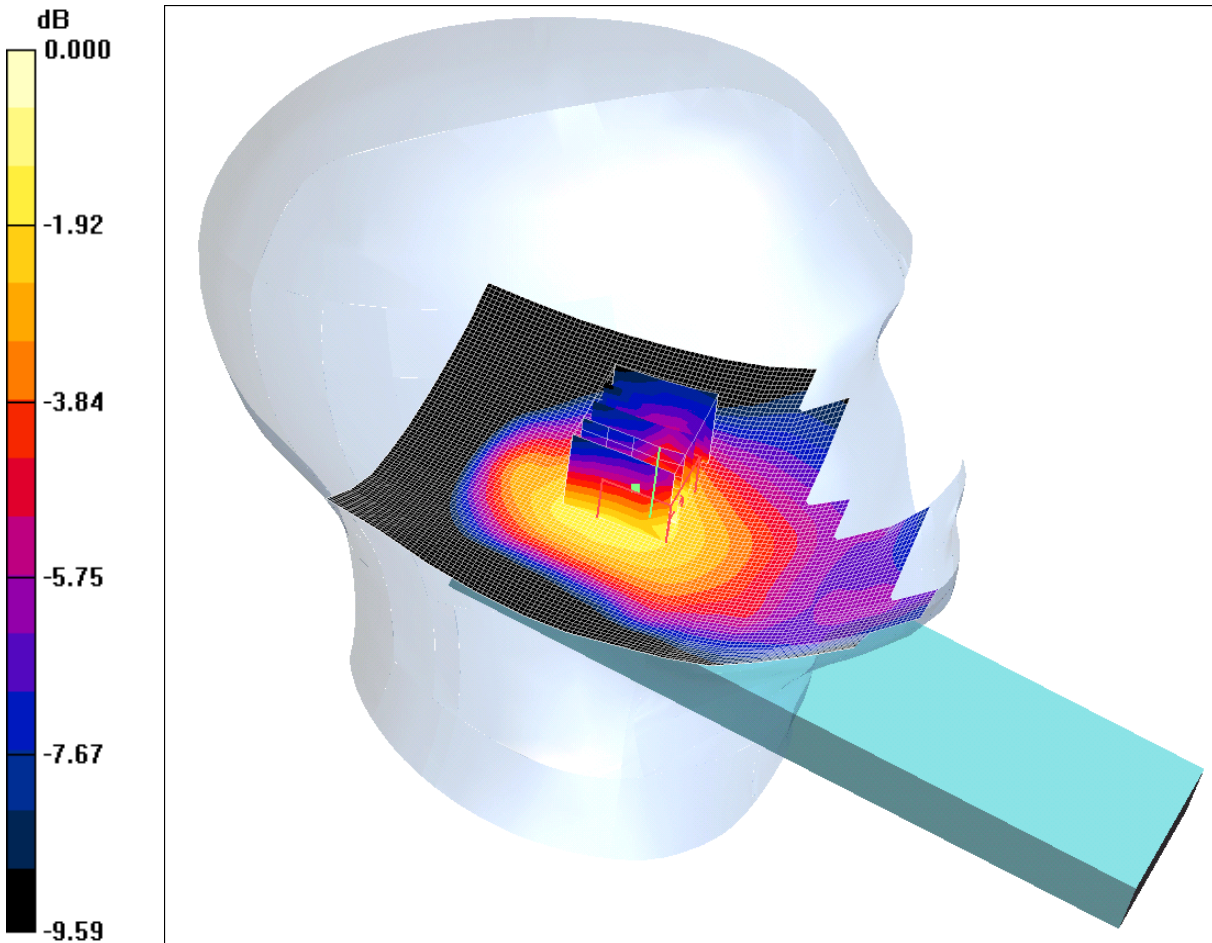
| Scan Reference Number | Title                                                             |
|-----------------------|-------------------------------------------------------------------|
| SCN/81350JD01/029     | Front of EUT Closed Facing Phantom WLAN 802.11b 1Mbps CH6         |
| SCN/81350JD01/030     | Rear of EUT Closed Facing Phantom WLAN 802.11b 1Mbps CH6          |
| SCN/81350JD01/031     | Front of EUT Open Facing Phantom WLAN 802.11b 1Mbps CH6           |
| SCN/81350JD01/032     | Rear of EUT Open Facing Phantom WLAN 802.11b 1Mbps CH6            |
| SCN/81350JD01/033     | EUT Screen Swivel & Display Facing Phantom WLAN 802.11b 1Mbps CH6 |
| SCN/81350JD01/034     | Rear of EUT Open Facing Phantom WLAN 802.11b 1Mbps CH1            |
| SCN/81350JD01/035     | Rear of EUT Open Facing Phantom WLAN 802_11b 1Mbps CH11           |
| SCN/81350JD01/036     | Rear of EUT Open Facing Phantom With PHF WLAN 802.11b 1Mbps CH11  |
| SCN/81350JD01/037     | Rear of EUT Open Facing Phantom WLAN 802.11g 6Mbps CH6            |
| SCN/81350JD01/038     | System Performance Check 900MHz Head 14 04 11                     |
| SCN/81350JD01/039     | System Performance Check 900MHz Body 14 04 11                     |
| SCN/81350JD01/040     | System Performance Check 900MHz Body 15 04 11                     |
| SCN/81350JD01/041     | System Performance Check 1900MHz Head 12 04 11                    |
| SCN/81350JD01/042     | System Performance Check 1900MHz Body 11 04 11                    |
| SCN/81350JD01/043     | System Performance Check 2450MHz Body 12 04 11                    |

Note: Some points in the 'Touch Left' and 'Touch Right' position could not be fully evaluated therefore the zoom scan was unable to fully enclose the peak SAR location as required by IEEE 1528 and OET Bulletin 65 Supplement C. This scan is repeated in the Mouth/ Jaw configuration on the flat section of the phantom.

SCN/81350JD01/001: Tilt Left CDMA2000 BC0 US CH384

Date 14/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.036mW/g

Communication System: CDMA 2000 BC0 US; Frequency: 836.52 MHz; Duty Cycle: 1:1  
 Medium: 900 MHz HSL Medium parameters used (interpolated):  $f = 836.52 \text{ MHz}$ ;  $\sigma = 0.926 \text{ mho/m}$ ;  $\epsilon_r = 42.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(10.73, 10.73, 10.73); Calibrated: 15/02/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 09/02/2011
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Tilt Left - Middle/Area Scan (81x171x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (interpolated) = 0.029 mW/g

**Tilt Left - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 4.25 V/m; Power Drift = -0.279 dB

Peak SAR (extrapolated) = 0.038 W/kg

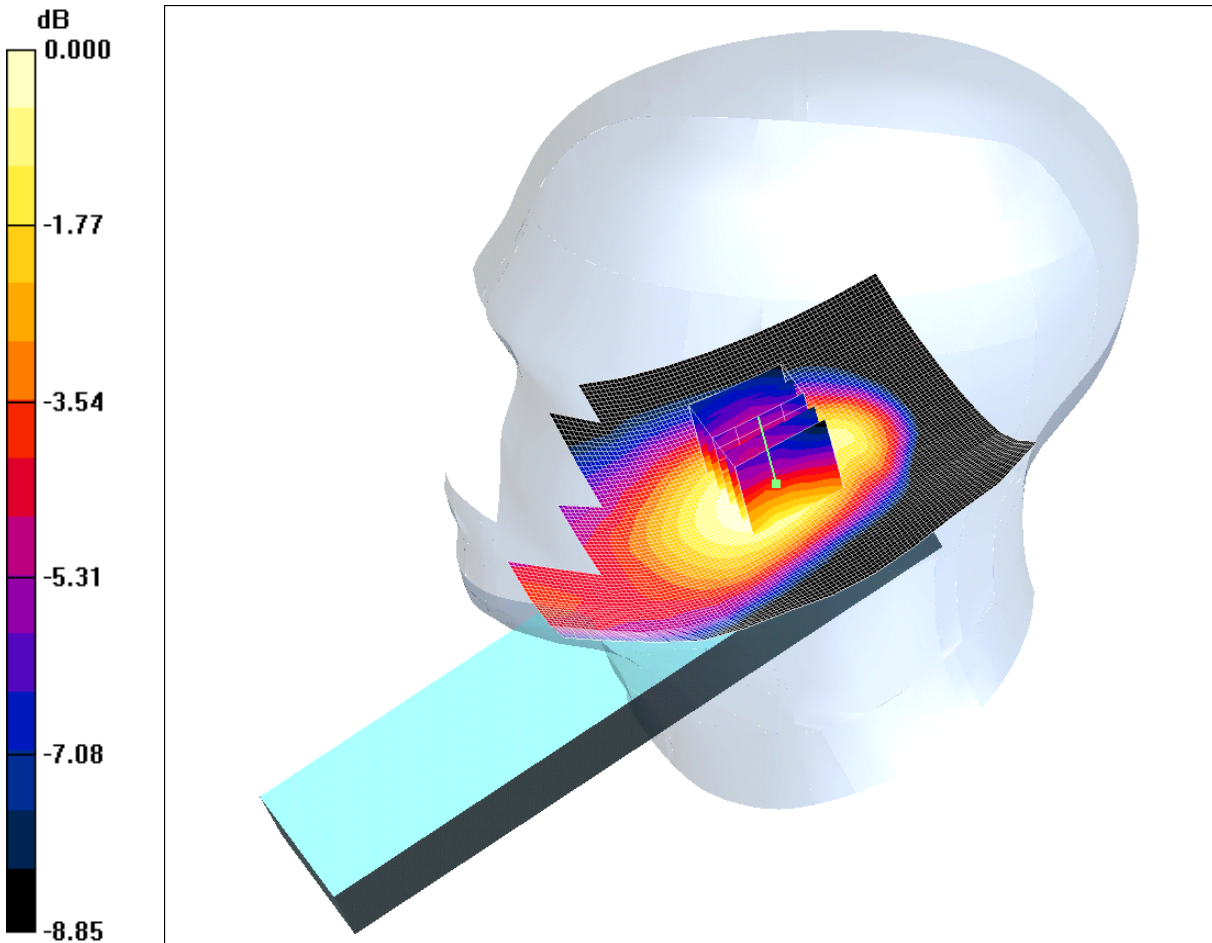
**SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.023 mW/g**

Maximum value of SAR (measured) = 0.036 mW/g

SCN/81350JD01/002: Tilt Right CDMA2000 BC0 US CH384

Date 14/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.025mW/g

Communication System: CDMA 2000 BC0 US; Frequency: 836.52 MHz; Duty Cycle: 1:1  
 Medium: 900 MHz HSL Medium parameters used (interpolated):  $f = 836.52$  MHz;  $\sigma = 0.926$  mho/m;  $\epsilon_r = 42.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(10.73, 10.73, 10.73); Calibrated: 15/02/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 09/02/2011
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Tilt Right - Middle/Area Scan (81x171x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.027 mW/g

**Tilt Right - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.95 V/m; Power Drift = 0.135 dB

Peak SAR (extrapolated) = 0.030 W/kg

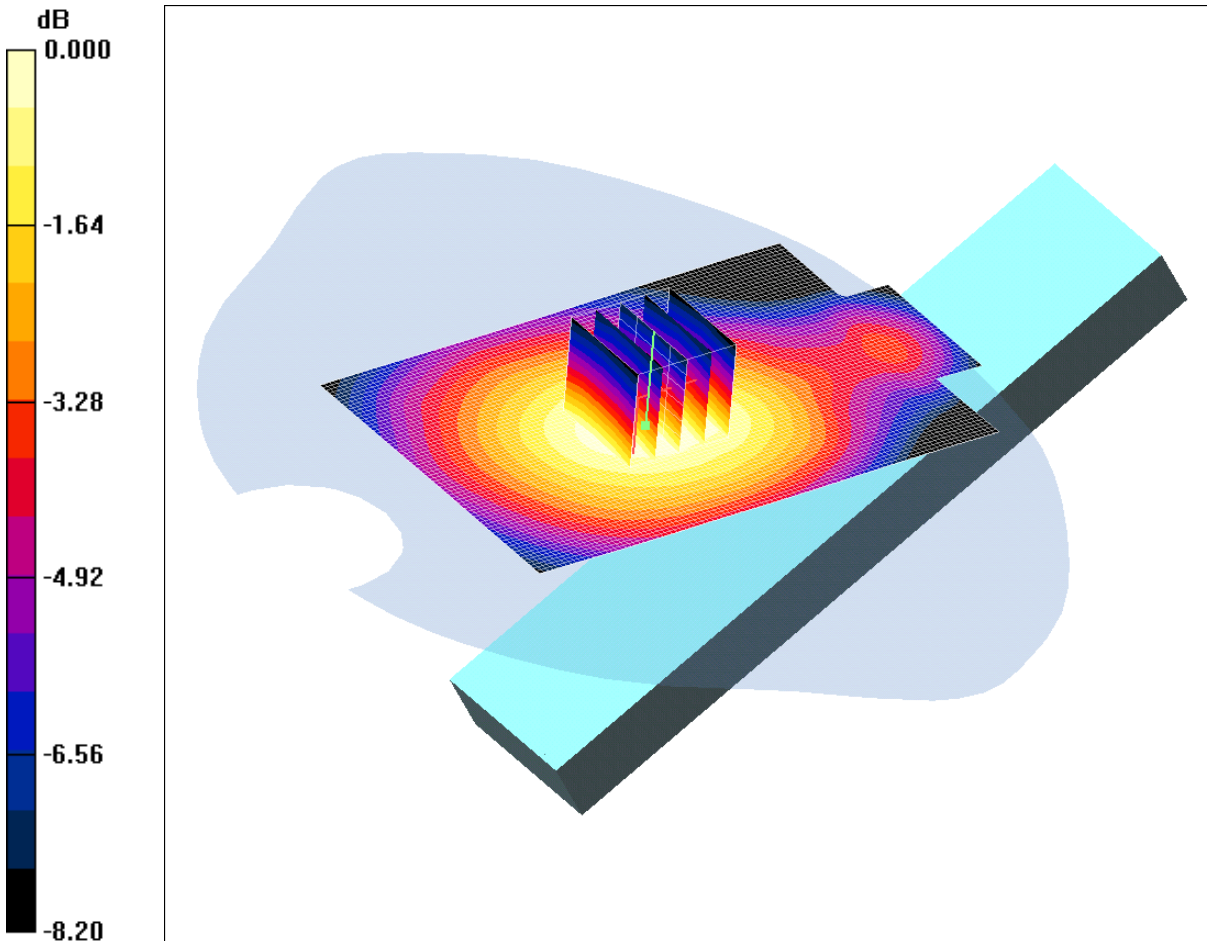
**SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.018 mW/g**

Maximum value of SAR (measured) = 0.025 mW/g

SCN/81350JD01/003: Touch Left &amp; Right Using Flat Section CDMA2000 BC0 US CH384

Date 14/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.059mW/g

Communication System: CDMA 2000 BC0 US; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: 900 MHz HSL Medium parameters used (interpolated):  $f = 836.52$  MHz;  $\sigma = 0.926$  mho/m;  $\epsilon_r = 42.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(10.73, 10.73, 10.73); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Touch Right & Left Using Flat Section - Middle/Area Scan (71x201x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.059 mW/g

**Touch Right & Left Using Flat Section - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.90 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.075 W/kg

**SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.041 mW/g**

Maximum value of SAR (measured) = 0.059 mW/g

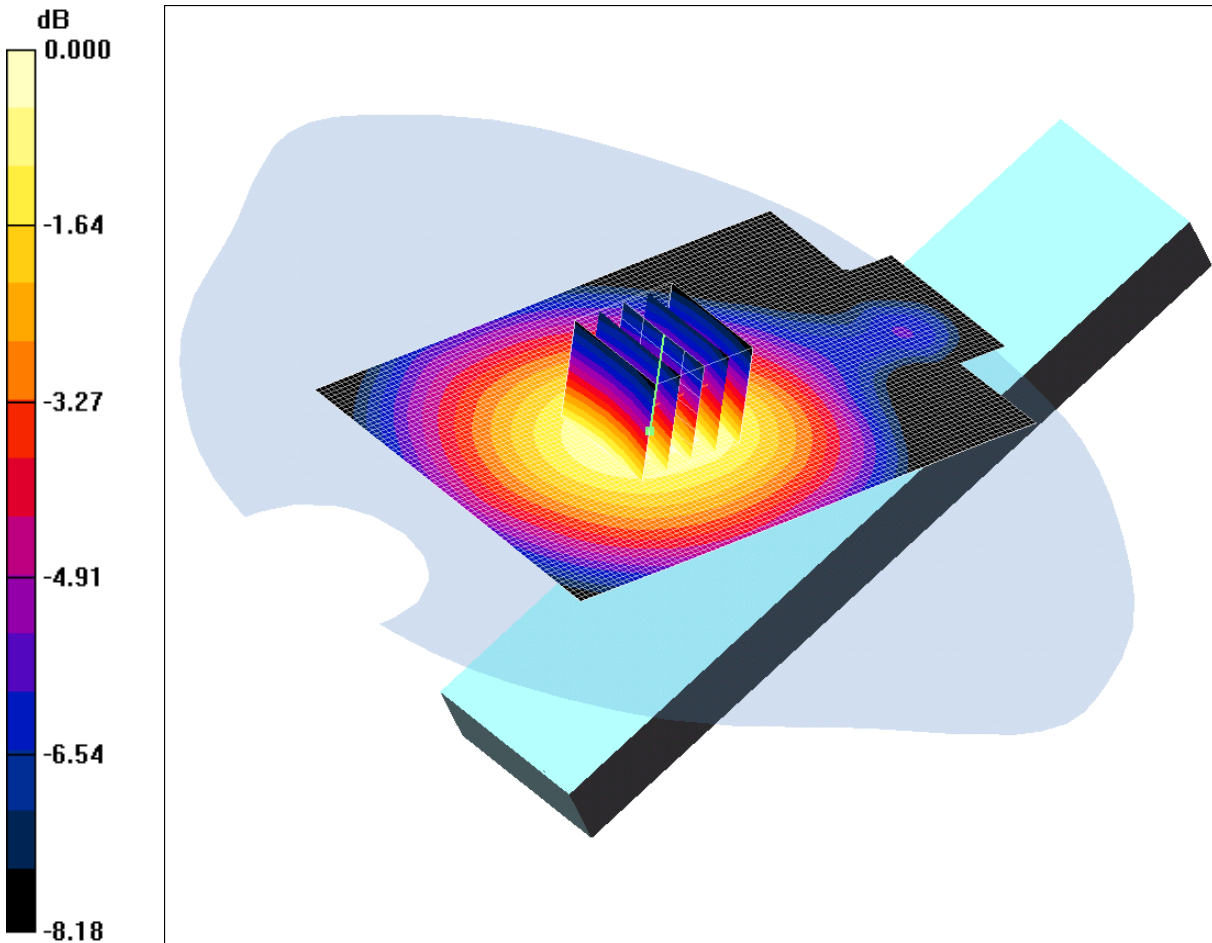
Note: Some points in the 'Touch Left' and 'Touch Right' position could not be fully evaluated therefore the zoom scan was unable to fully enclose the peak SAR location as required by IEEE 1528 and OET Bulletin 65 Supplement C. This scan is repeated in the Mouth/ Jaw configuration on the flat section of the phantom.



SCN/81350JD01/004: Touch Left &amp; Right Using Flat Section CDMA2000 BC0 US CH1013

Date 14/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.056mW/g

Communication System: CDMA 2000 BC0 US; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: 900 MHz HSL Medium parameters used (interpolated):  $f = 824.7$  MHz;  $\sigma = 0.915$  mho/m;  $\epsilon_r = 42.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(10.73, 10.73, 10.73); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Touch Right & Left Using Flat Section - Low/Area Scan (71x201x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.053 mW/g

**Touch Right & Left Using Flat Section - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.54 V/m; Power Drift = 0.290 dB

Peak SAR (extrapolated) = 0.069 W/kg

**SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.039 mW/g**

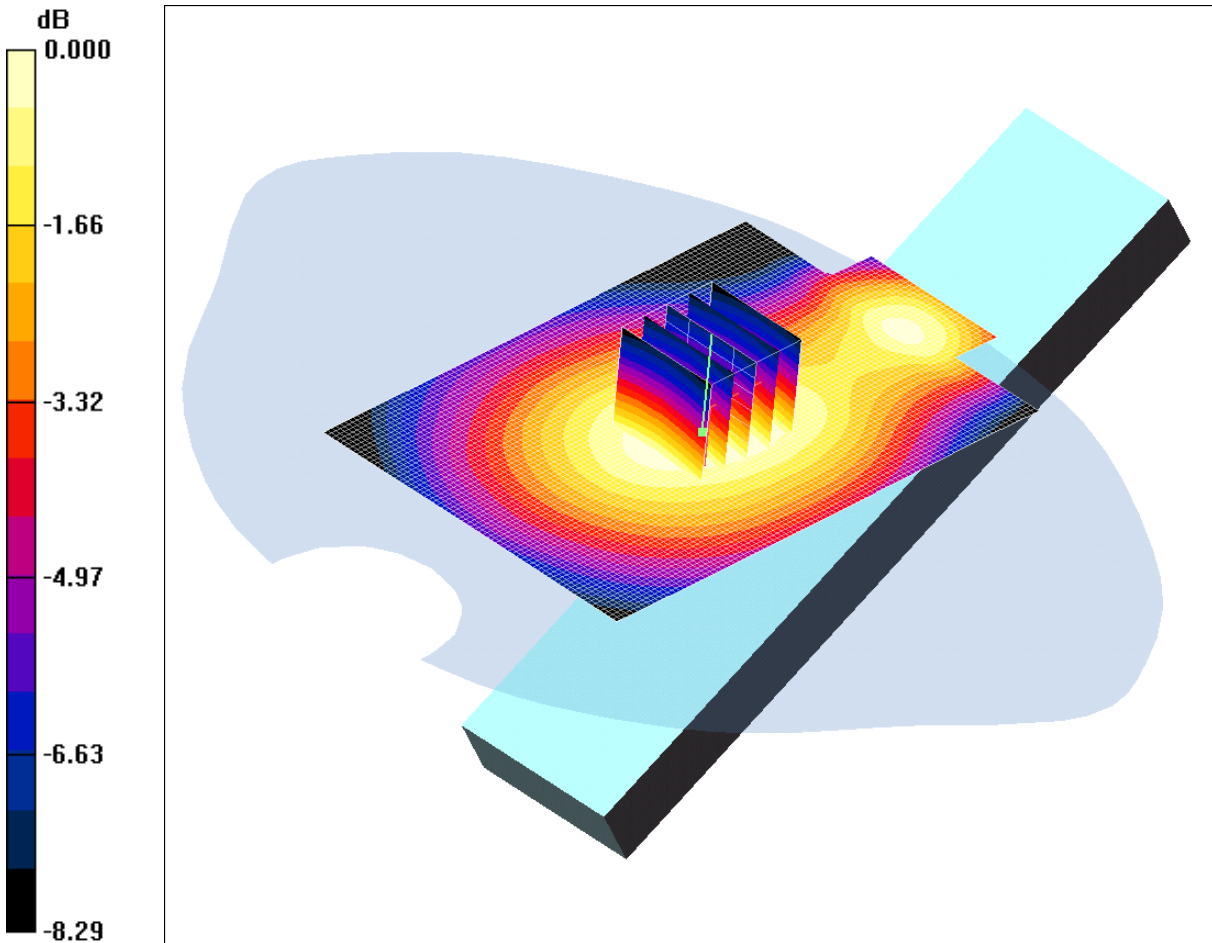
Maximum value of SAR (measured) = 0.056 mW/g

Note: Some points in the 'Touch Left' and 'Touch Right' position could not be fully evaluated therefore the zoom scan was unable to fully enclose the peak SAR location as required by IEEE 1528 and OET Bulletin 65 Supplement C. This scan is repeated in the Mouth/ Jaw configuration on the flat section of the phantom.

SCN/81350JD01/005: Touch Left &amp; Right Using Flat Section CDMA2000 BC0 US CH777

Date 14/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.079mW/g

Communication System: CDMA 2000 BC0 US; Frequency: 848.31 MHz; Duty Cycle: 1:1  
 Medium: 900 MHz HSL Medium parameters used (interpolated):  $f = 848.31$  MHz;  $\sigma = 0.937$  mho/m;  $\epsilon_r = 42.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(10.73, 10.73, 10.73); Calibrated: 15/02/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 09/02/2011
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Touch Right & Left Using Flat Section - High/Area Scan (71x201x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.080 mW/g

**Touch Right & Left Using Flat Section - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.83 V/m; Power Drift = 0.059 dB

Peak SAR (extrapolated) = 0.098 W/kg

**SAR(1 g) = 0.075 mW/g; SAR(10 g) = 0.055 mW/g**

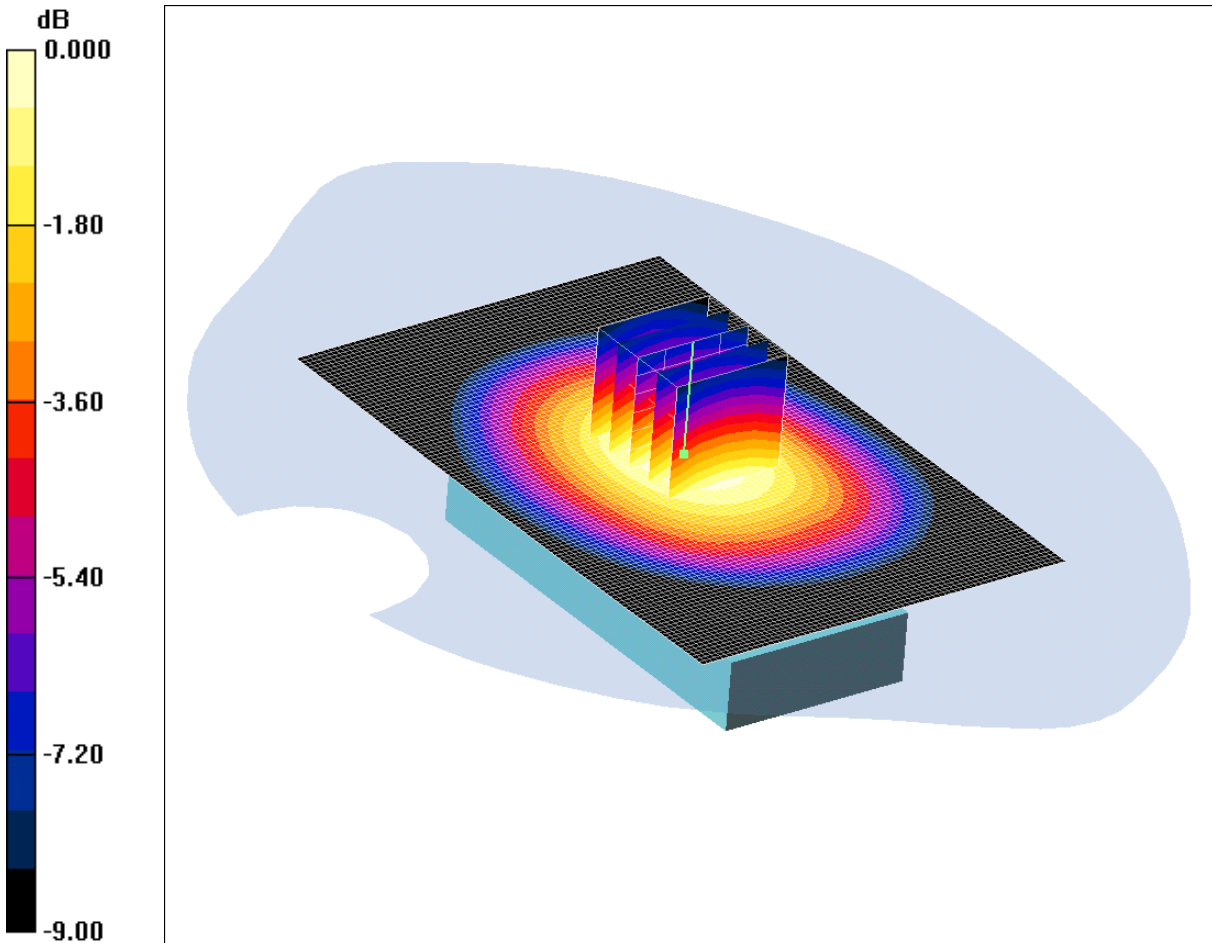
Maximum value of SAR (measured) = 0.079 mW/g

Note: Some points in the 'Touch Left' and 'Touch Right' position could not be fully evaluated therefore the zoom scan was unable to fully enclose the peak SAR location as required by IEEE 1528 and OET Bulletin 65 Supplement C. This scan is repeated in the Mouth/ Jaw configuration on the flat section of the phantom.

SCN/81350JD01/006: Front of EUT Closed Facing Phantom CDMA2000 BC0 US CH384

Date 14/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.197mW/g

Communication System: CDMA 2000 BC0 US; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: 900 MHz MSL Medium parameters used (interpolated):  $f = 836.52 \text{ MHz}$ ;  $\sigma = 0.996 \text{ mho/m}$ ;  $\epsilon_r = 54.8$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(10.54, 10.54, 10.54); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Front of EUT Facing Phantom - Middle/Area Scan (71x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (interpolated) = 0.198 mW/g

**Front of EUT Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 14.3 V/m; Power Drift = -0.233 dB

Peak SAR (extrapolated) = 0.242 W/kg

**SAR(1 g) = 0.188 mW/g; SAR(10 g) = 0.138 mW/g**

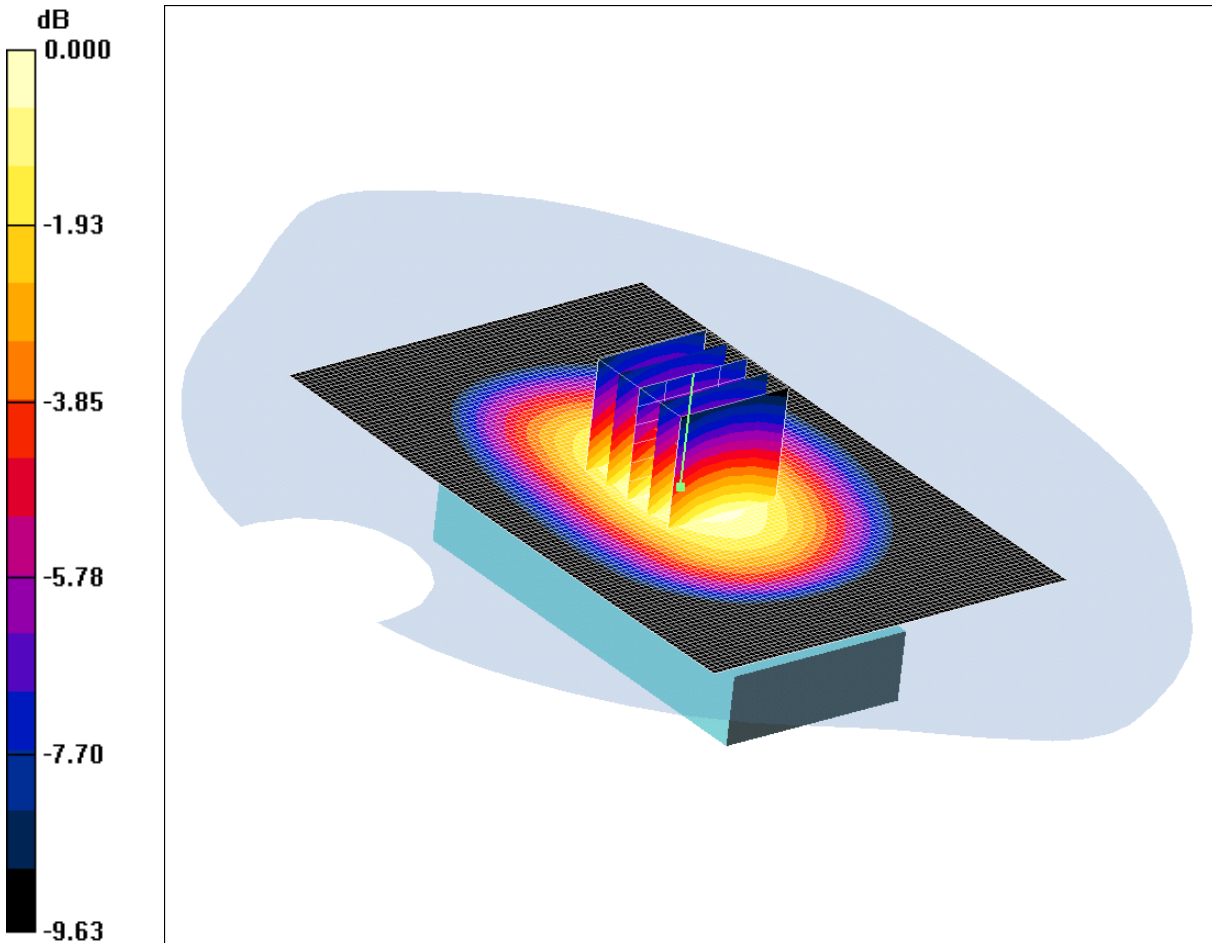
Maximum value of SAR (measured) = 0.197 mW/g



SCN/81350JD01/007: Rear of EUT Closed Facing Phantom CDMA2000 BC0 US CH384

Date 14/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.336mW/g

Communication System: CDMA 2000 BC0 US; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: 900 MHz MSL Medium parameters used (interpolated):  $f = 836.52$  MHz;  $\sigma = 0.996$  mho/m;  $\epsilon_r = 54.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(10.54, 10.54, 10.54); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - Middle/Area Scan (71x111x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.346 mW/g

**Rear of EUT Facing Phantom - Middle/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.3 V/m; Power Drift = -0.102 dB

Peak SAR (extrapolated) = 0.422 W/kg

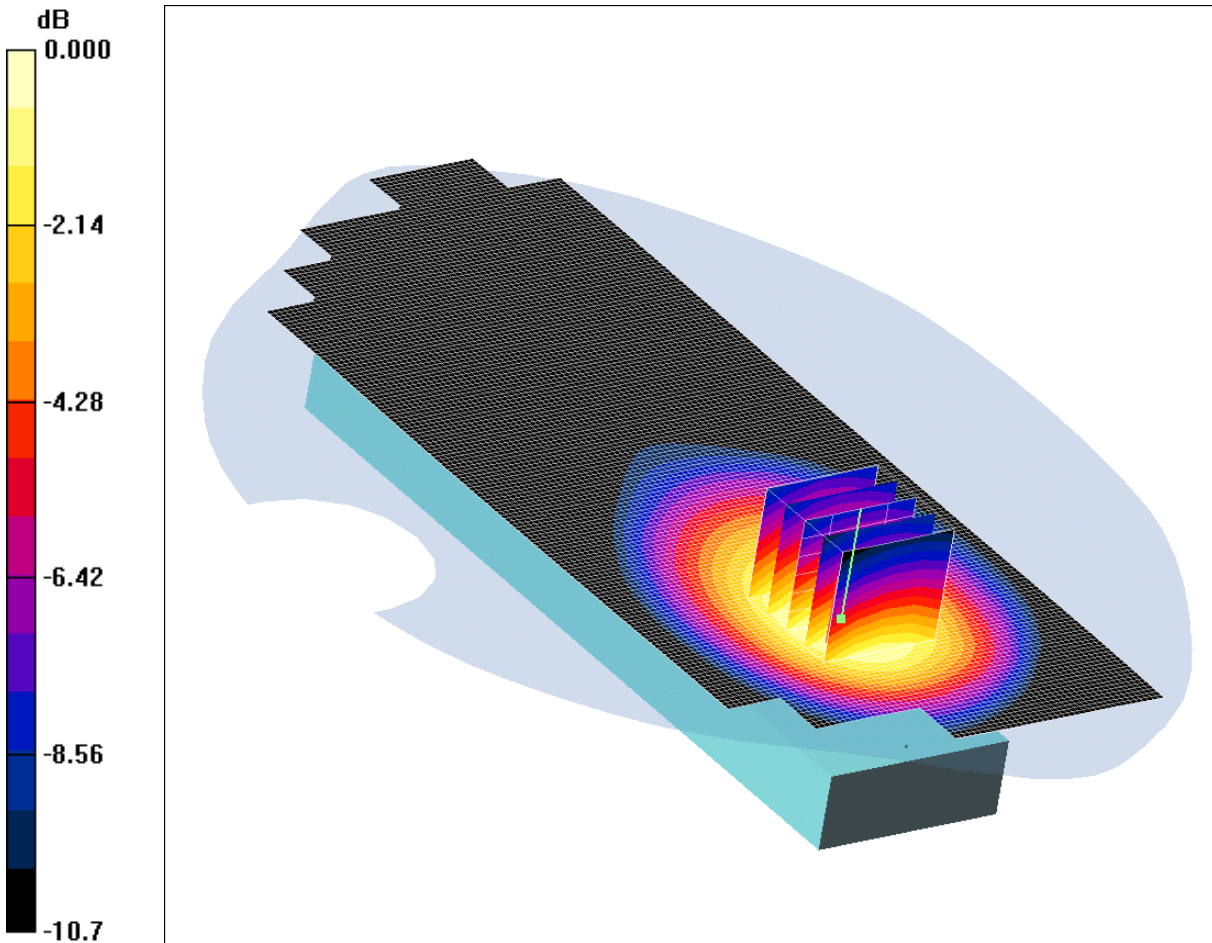
**SAR(1 g) = 0.318 mW/g; SAR(10 g) = 0.229 mW/g**

Maximum value of SAR (measured) = 0.336 mW/g

SCN/81350JD01/008: Front of EUT Open Facing Phantom CDMA2000 BC0 US CH384

Date 14/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.171mW/g

Communication System: CDMA 2000 BC0 US; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: 900 MHz MSL Medium parameters used (interpolated):  $f = 836.52 \text{ MHz}$ ;  $\sigma = 0.996 \text{ mho/m}$ ;  $\epsilon_r = 54.8$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(10.54, 10.54, 10.54); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Front of EUT Facing Phantom - Middle/Area Scan (71x181x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (interpolated) = 0.171 mW/g

**Front of EUT Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 4.86 V/m; Power Drift = 0.060 dB

Peak SAR (extrapolated) = 0.220 W/kg

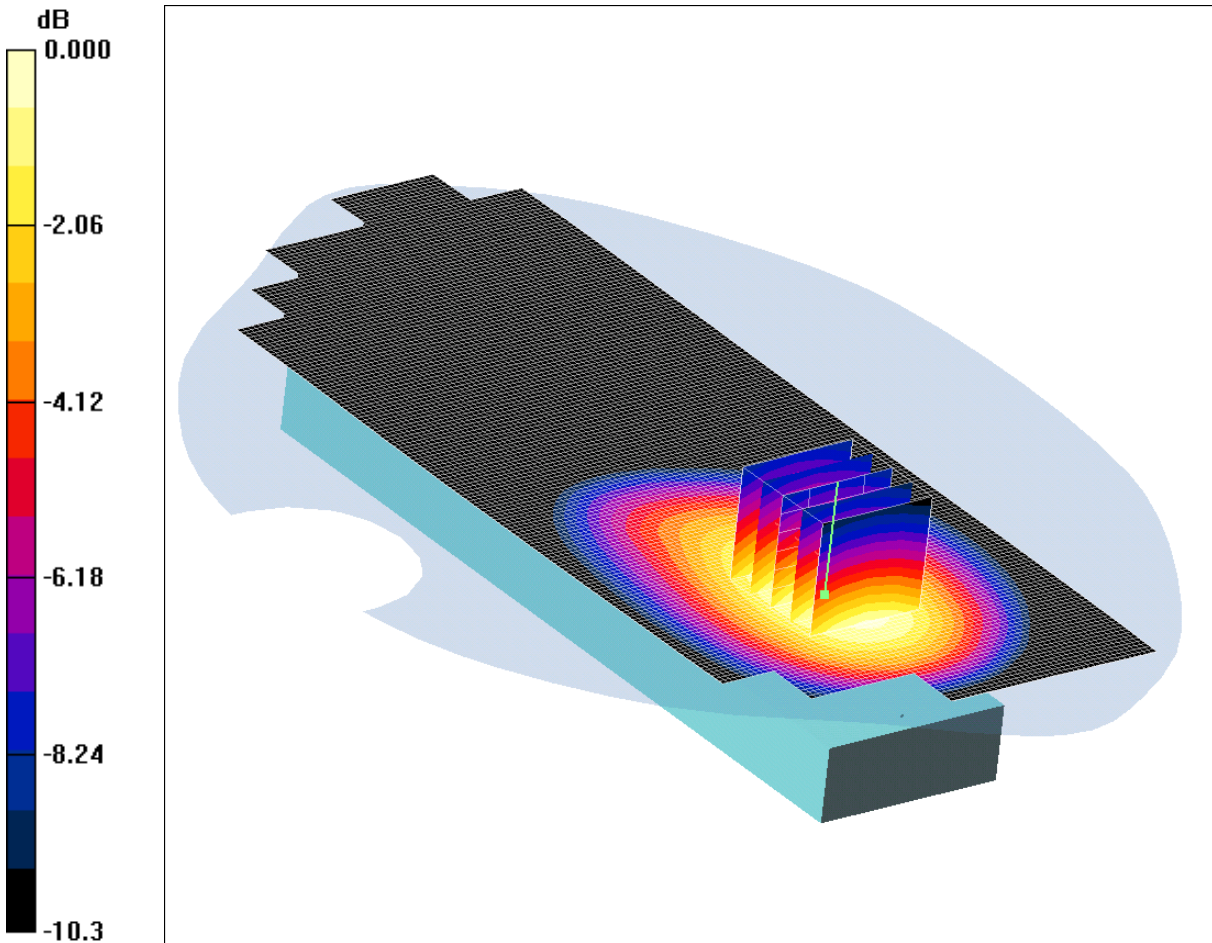
**SAR(1 g) = 0.161 mW/g; SAR(10 g) = 0.114 mW/g**

Maximum value of SAR (measured) = 0.171 mW/g

SCN/81350JD01/009: Rear of EUT Open Facing Phantom CDMA2000 BC0 US CH384

Date 14/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.203mW/g

Communication System: CDMA 2000 BC0 US; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: 900 MHz MSL Medium parameters used (interpolated):  $f = 836.52$  MHz;  $\sigma = 0.996$  mho/m;  $\epsilon_r = 54.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(10.54, 10.54, 10.54); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - Middle/Area Scan (71x181x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.202 mW/g

**Rear of EUT Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.89 V/m; Power Drift = 0.136 dB

Peak SAR (extrapolated) = 0.263 W/kg

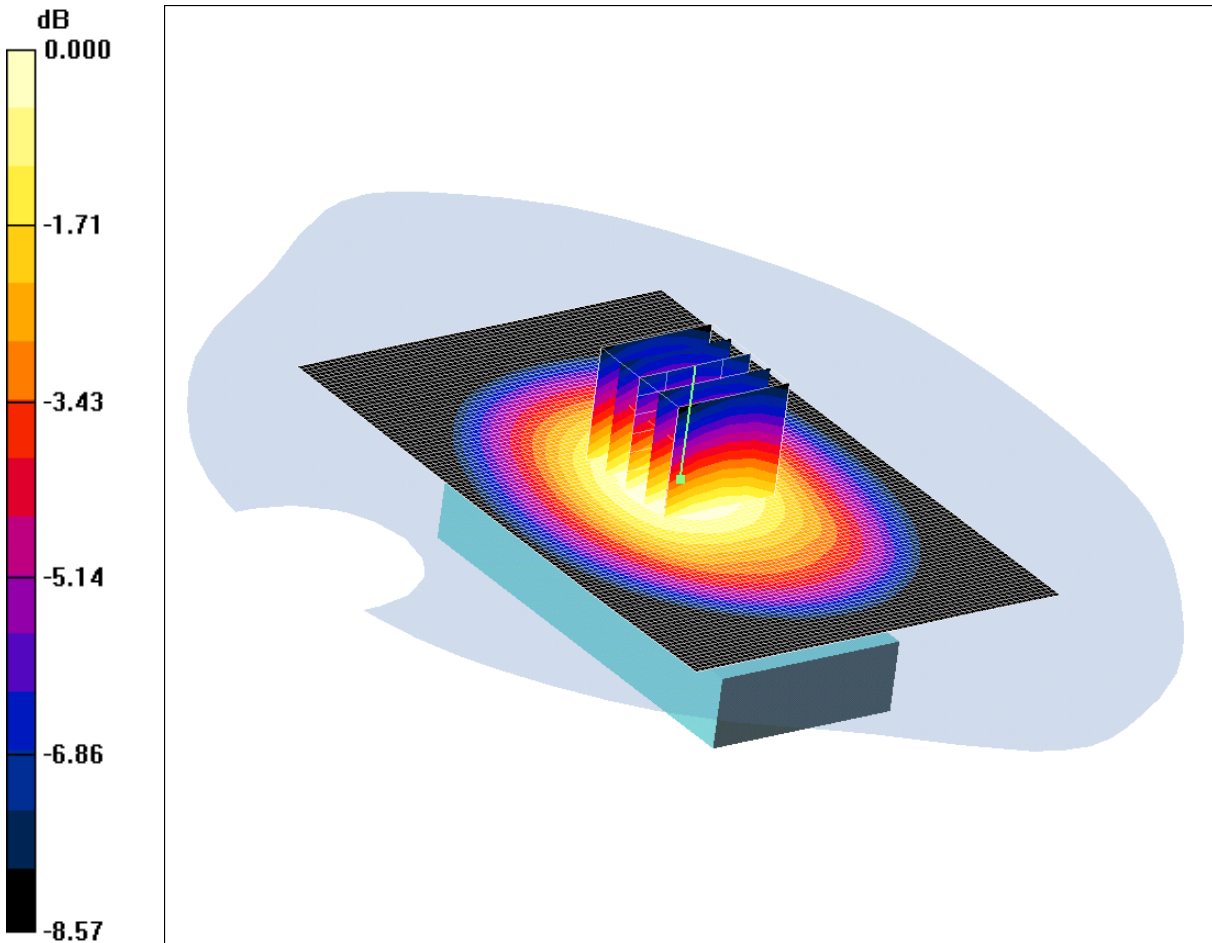
**SAR(1 g) = 0.192 mW/g; SAR(10 g) = 0.135 mW/g**

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

SCN/81350JD01/010: EUT Screen Swivel &amp; Display Facing Phantom CDMA2000 BC0 US CH384

Date 14/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.198mW/g

Communication System: CDMA 2000 BC0 US; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: 900 MHz MSL Medium parameters used (interpolated):  $f = 836.52$  MHz;  $\sigma = 0.996$  mho/m;  $\epsilon_r = 54.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(10.54, 10.54, 10.54); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**EUT Screen Swivel & Display Facing Phantom - Middle/Area Scan (71x111x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.205 mW/g

**EUT Screen Swivel & Display Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement

grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.1 V/m; Power Drift = 0.026 dB

Peak SAR (extrapolated) = 0.243 W/kg

**SAR(1 g) = 0.189 mW/g; SAR(10 g) = 0.140 mW/g**

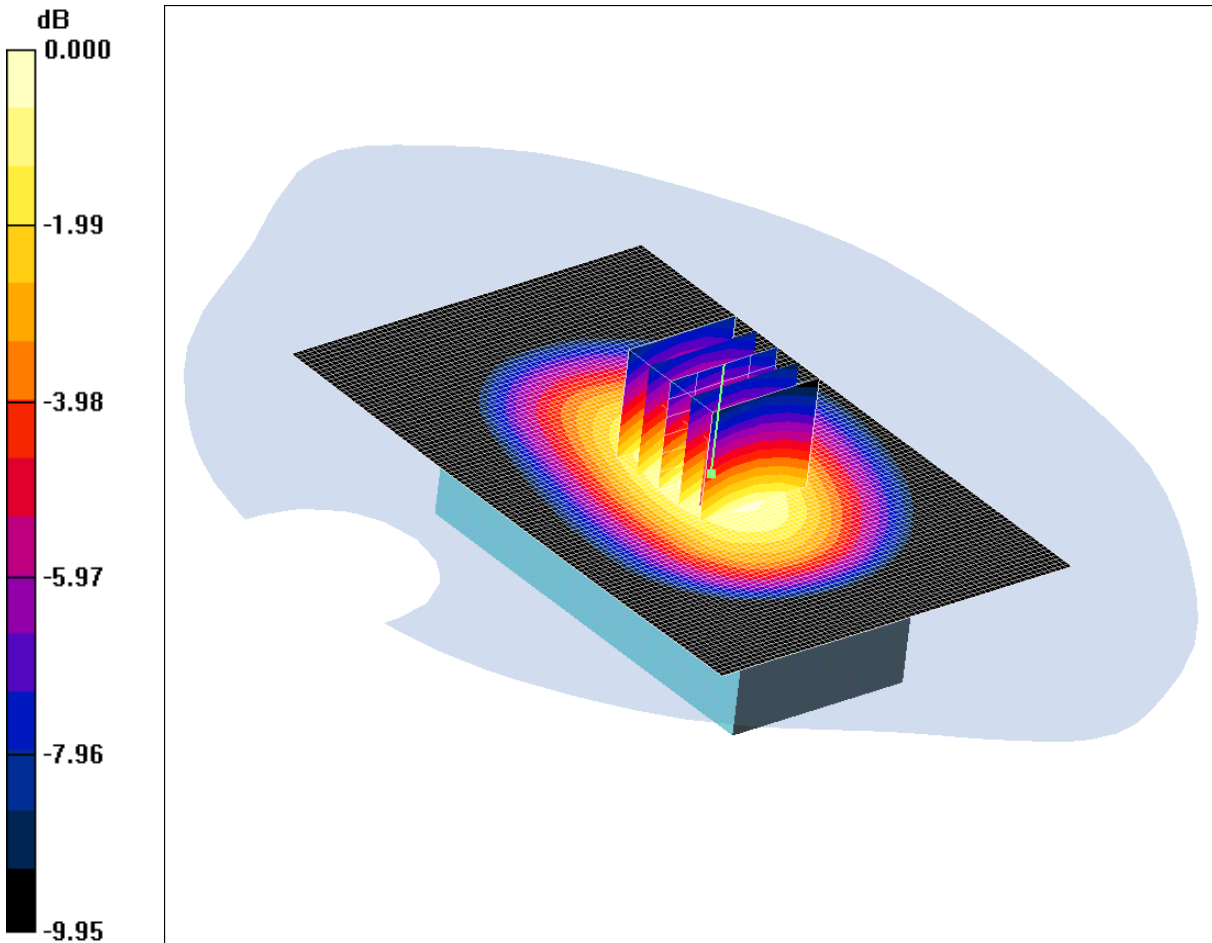
Maximum value of SAR (measured) = 0.198 mW/g



SCN/81350JD01/011: Rear of EUT Closed Facing Phantom CDMA2000 BC0 US CH1013

Date 15/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.321mW/g

Communication System: CDMA 2000 BC0 US; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: 900 MHz MSL Medium parameters used (interpolated):  $f = 824.7$  MHz;  $\sigma = 0.985$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(10.54, 10.54, 10.54); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - Low/Area Scan (71x111x1):** Measurement grid: dx=15mm, dy=15mm

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

**Rear of EUT Facing Phantom - Low/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.8 V/m; Power Drift = 0.334 dB

Peak SAR (extrapolated) = 0.411 W/kg

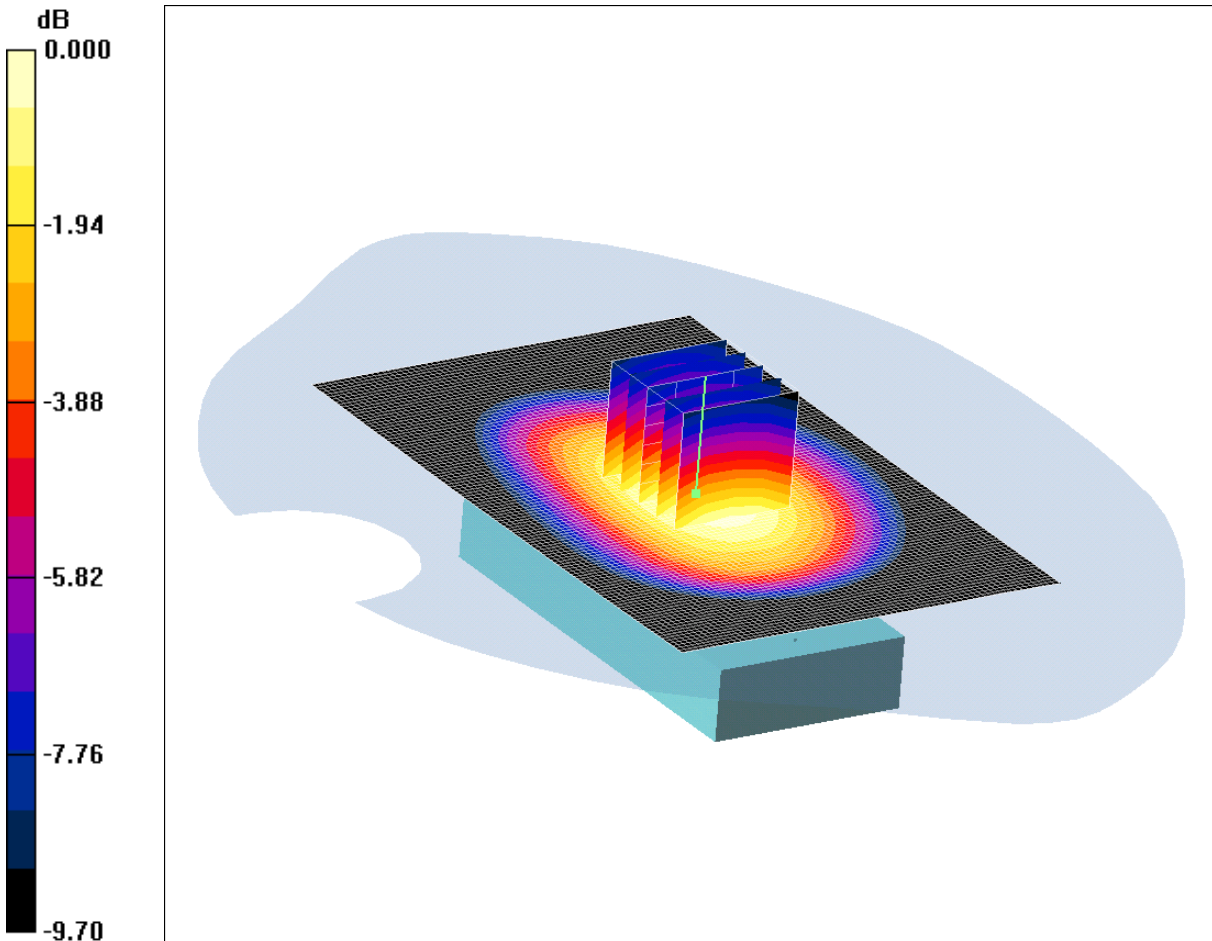
**SAR(1 g) = 0.304 mW/g; SAR(10 g) = 0.217 mW/g**

Maximum value of SAR (measured) = 0.321 mW/g

SCN/81350JD01/012: Rear of EUT Closed Facing Phantom CDMA2000 BC0 US CH777

Date 15/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.487mW/g

Communication System: CDMA 2000 BC0 US; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: 900 MHz MSL Medium parameters used (interpolated):  $f = 848.31$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(10.54, 10.54, 10.54); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - High/Area Scan (71x111x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.482 mW/g

**Rear of EUT Facing Phantom - High/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.7 V/m; Power Drift = -0.380 dB

Peak SAR (extrapolated) = 0.610 W/kg

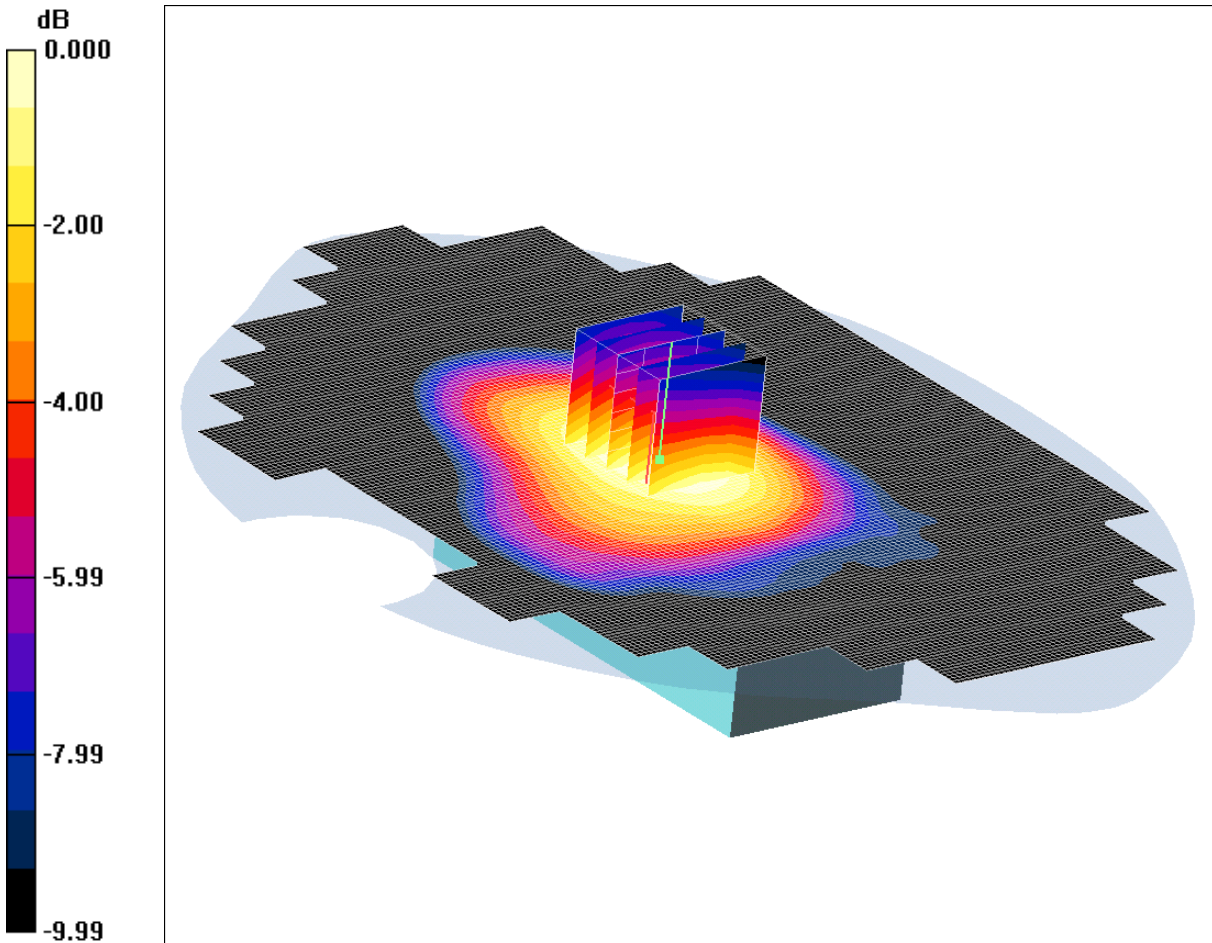
**SAR(1 g) = 0.458 mW/g; SAR(10 g) = 0.328 mW/g**

Maximum value of SAR (measured) = 0.487 mW/g

SCN/81350JD01/013: Rear of EUT Closed Facing Phantom With PHF CDMA2000 BC0 US CH777

Date 15/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.410mW/g

Communication System: CDMA 2000 BC0 US; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: 900 MHz MSL Medium parameters used (interpolated):  $f = 848.31$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(10.54, 10.54, 10.54); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - High/Area Scan (121x181x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.424 mW/g

**Rear of EUT Facing Phantom - High/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.2 V/m; Power Drift = -0.348 dB

Peak SAR (extrapolated) = 0.513 W/kg

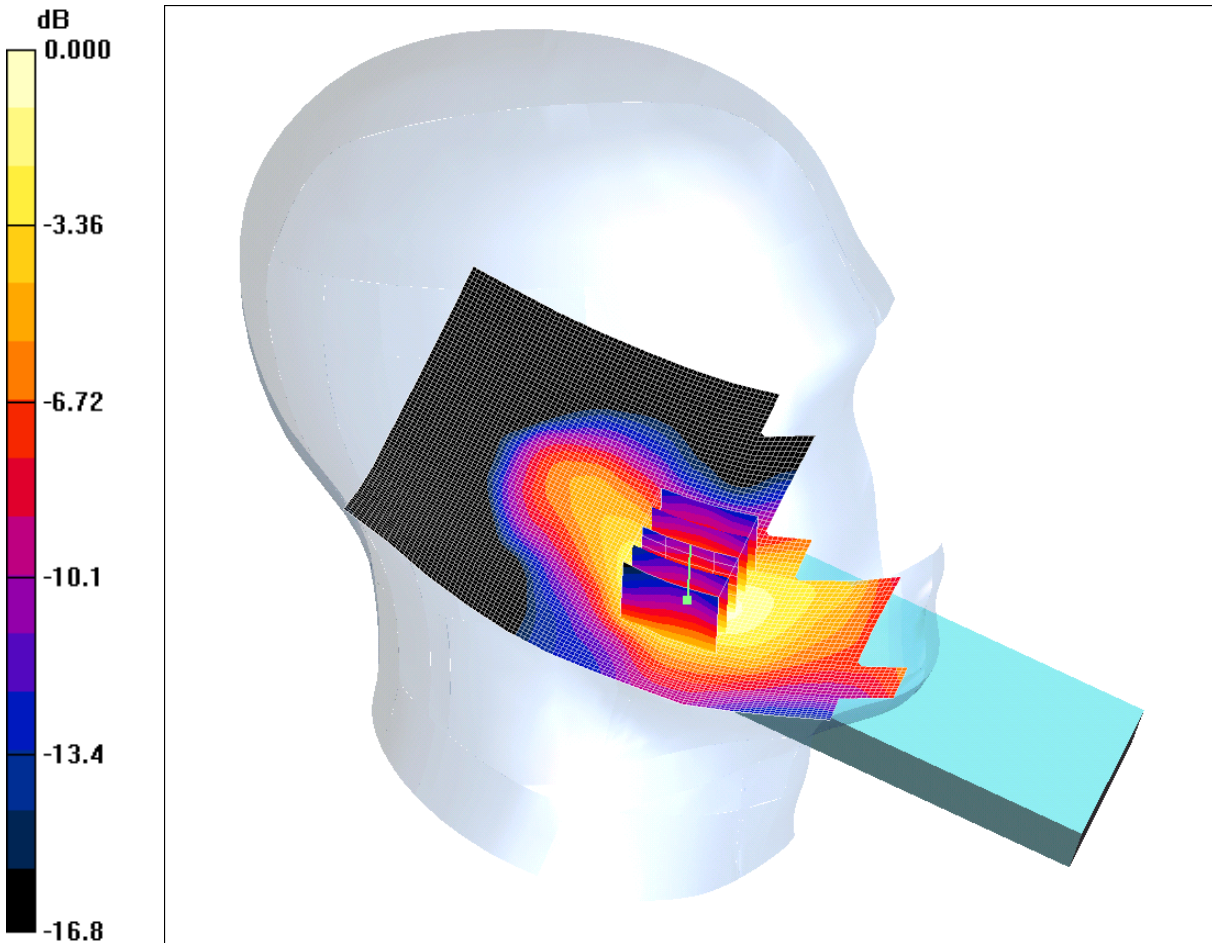
**SAR(1 g) = 0.387 mW/g; SAR(10 g) = 0.279 mW/g**

Maximum value of SAR (measured) = 0.410 mW/g

SCN/81350JD01/014: Touch Left PCS CH660

Date 12/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.125mW/g

Communication System: PCS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:8.3

Medium: 1900 MHz HSL Medium parameters used (interpolated):  $f = 1879.8$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 38.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.83, 8.83, 8.83); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Touch Left - Middle/Area Scan (81x171x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.128 mW/g

**Touch Left - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.96 V/m; Power Drift = 0.284 dB

Peak SAR (extrapolated) = 0.185 W/kg

**SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.067 mW/g**

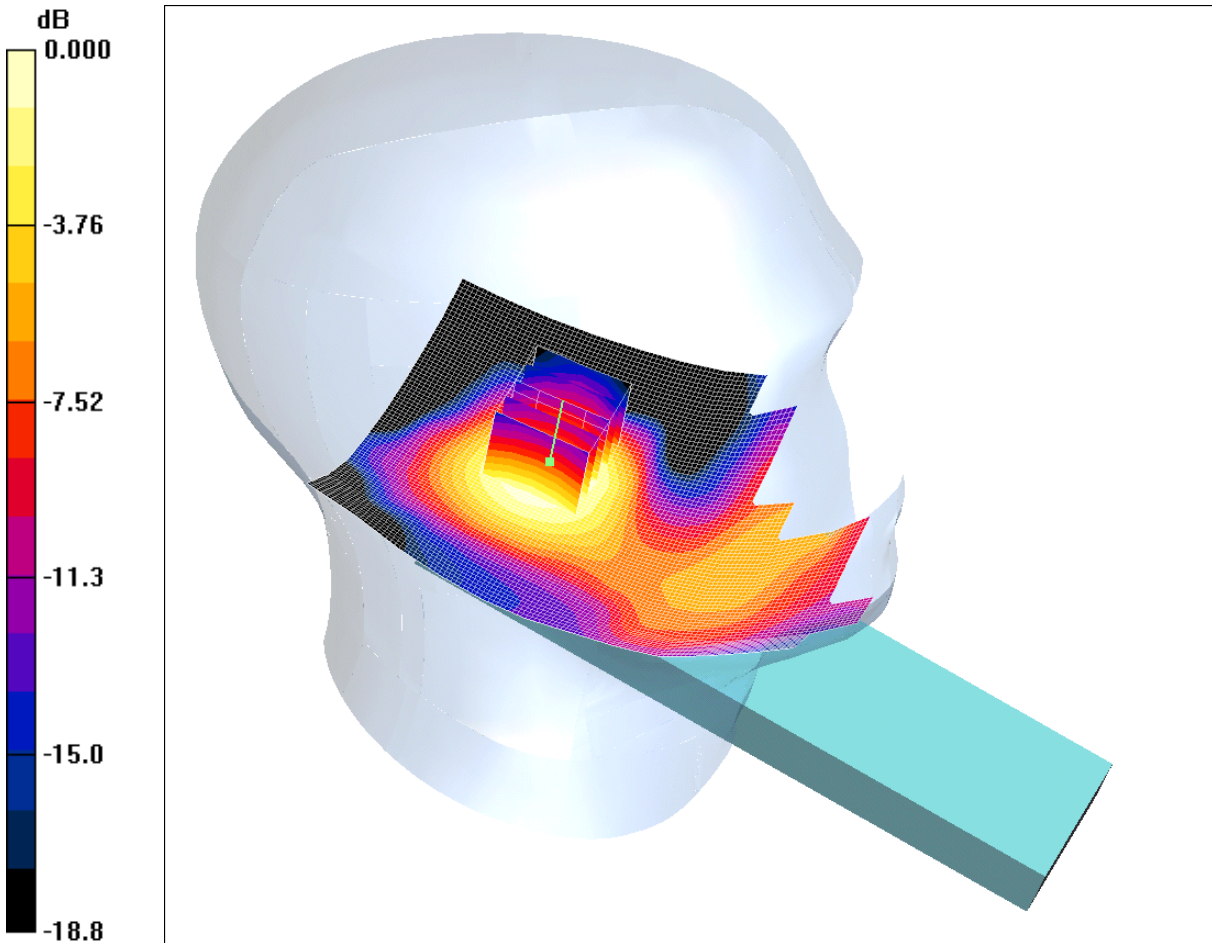
Maximum value of SAR (measured) = 0.125 mW/g



SCN/81350JD01/015: Tilt Left PCS CH660

Date 12/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.086mW/g

Communication System: PCS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:8.3

Medium: 1900 MHz HSL Medium parameters used (interpolated):  $f = 1879.8$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 38.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.83, 8.83, 8.83); Calibrated: 15/02/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 09/02/2011
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Tilt Left - Middle/Area Scan (81x171x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.099 mW/g

**Tilt Left - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.67 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 0.121 W/kg

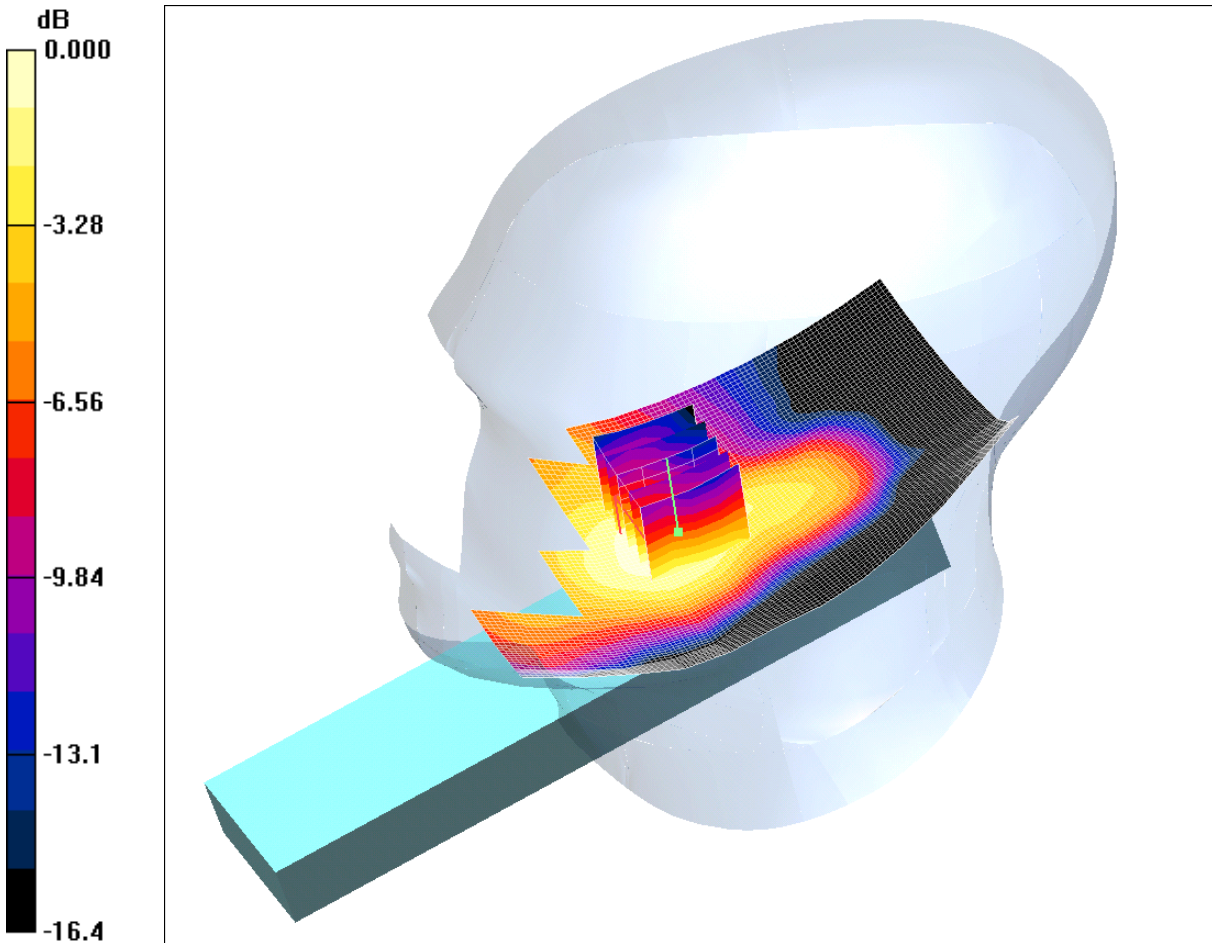
**SAR(1 g) = 0.080 mW/g; SAR(10 g) = 0.049 mW/g**

Maximum value of SAR (measured) = 0.086 mW/g

SCN/81350JD01/016: Touch Right PCS CH660

Date 12/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.065mW/g

Communication System: PCS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:8.3

Medium: 1900 MHz HSL Medium parameters used (interpolated):  $f = 1879.8$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 38.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.83, 8.83, 8.83); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Touch Right - Middle/Area Scan (81x171x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.068 mW/g

**Touch Right - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.13 V/m; Power Drift = 0.414 dB

Peak SAR (extrapolated) = 0.103 W/kg

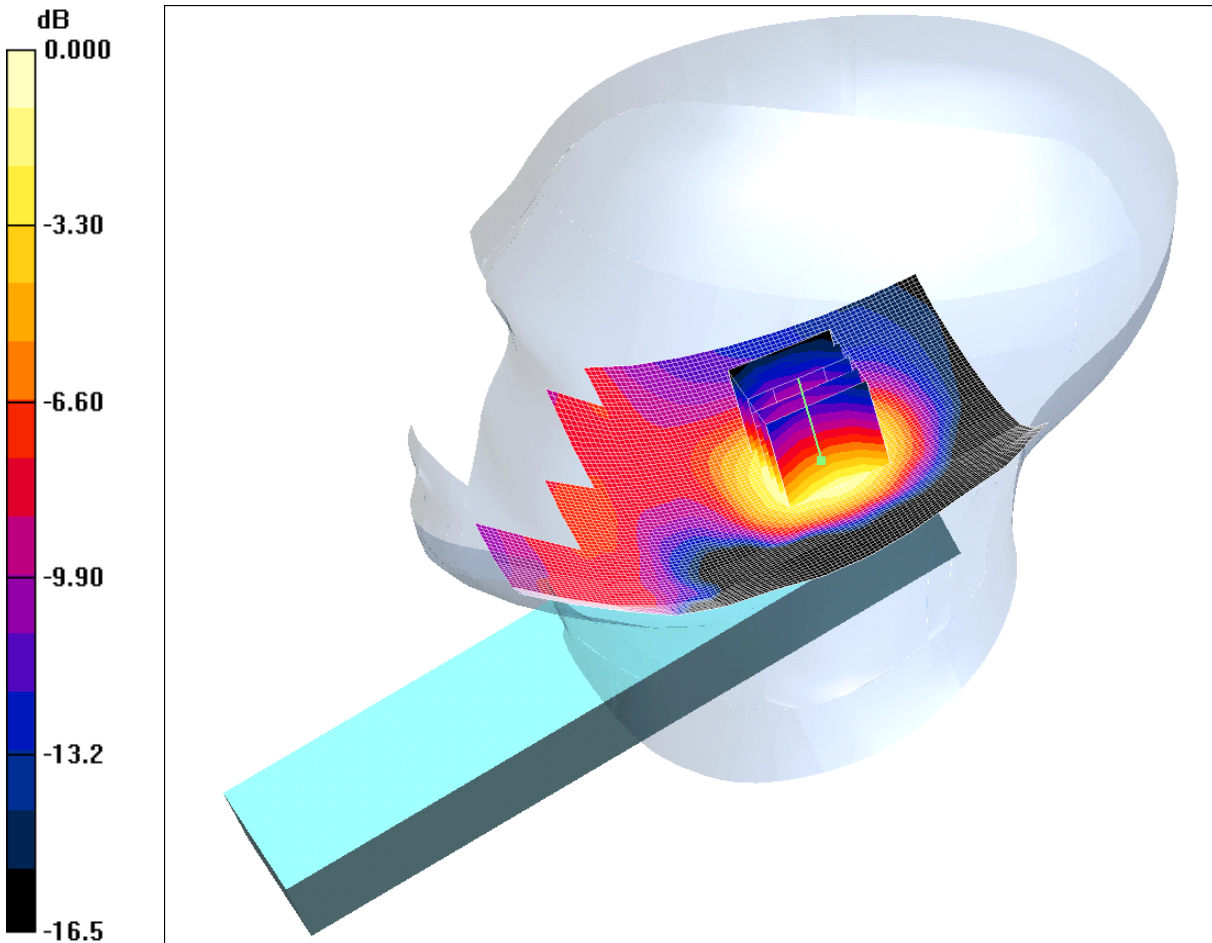
**SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.038 mW/g**

Maximum value of SAR (measured) = 0.065 mW/g

SCN/81350JD01/017: Tilt Right PCS CH660

Date 12/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.091mW/g

Communication System: PCS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:8.3

Medium: 1900 MHz HSL Medium parameters used (interpolated):  $f = 1879.8$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 38.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.83, 8.83, 8.83); Calibrated: 15/02/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 09/02/2011
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Tilt Right - Middle/Area Scan (81x171x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.097 mW/g

**Tilt Right - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.75 V/m; Power Drift = -0.053 dB

Peak SAR (extrapolated) = 0.132 W/kg

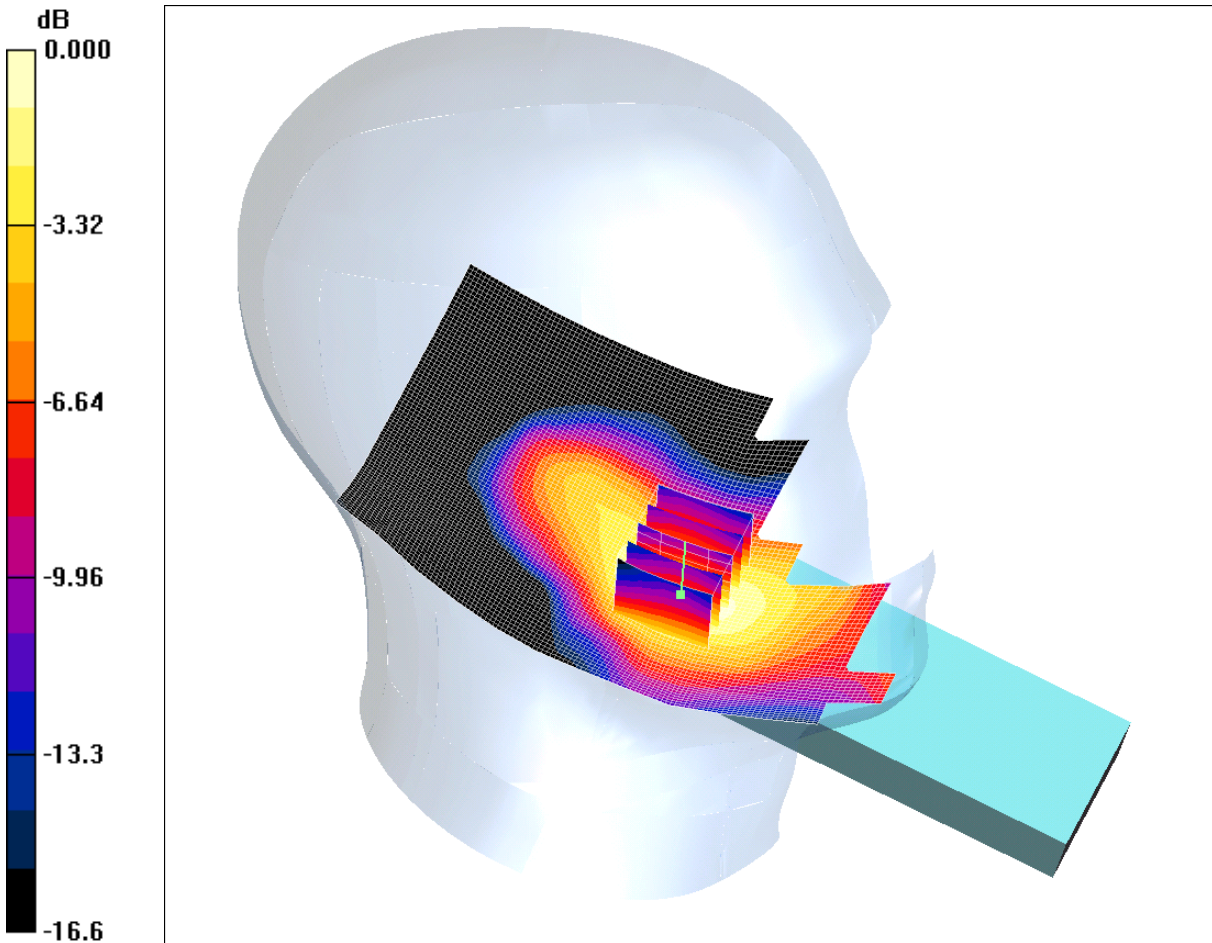
**SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.051 mW/g**

Maximum value of SAR (measured) = 0.091 mW/g

SCN/81350JD01/018: Touch Left PCS CH512

Date 12/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.128mW/g

Communication System: PCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: 1900 MHz HSL Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.38$  mho/m;  $\epsilon_r = 38.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.83, 8.83, 8.83); Calibrated: 15/02/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 09/02/2011
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Touch Left - Low/Area Scan (81x171x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.133 mW/g

**Touch Left - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.02 V/m; Power Drift = -0.195 dB

Peak SAR (extrapolated) = 0.188 W/kg

**SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.072 mW/g**

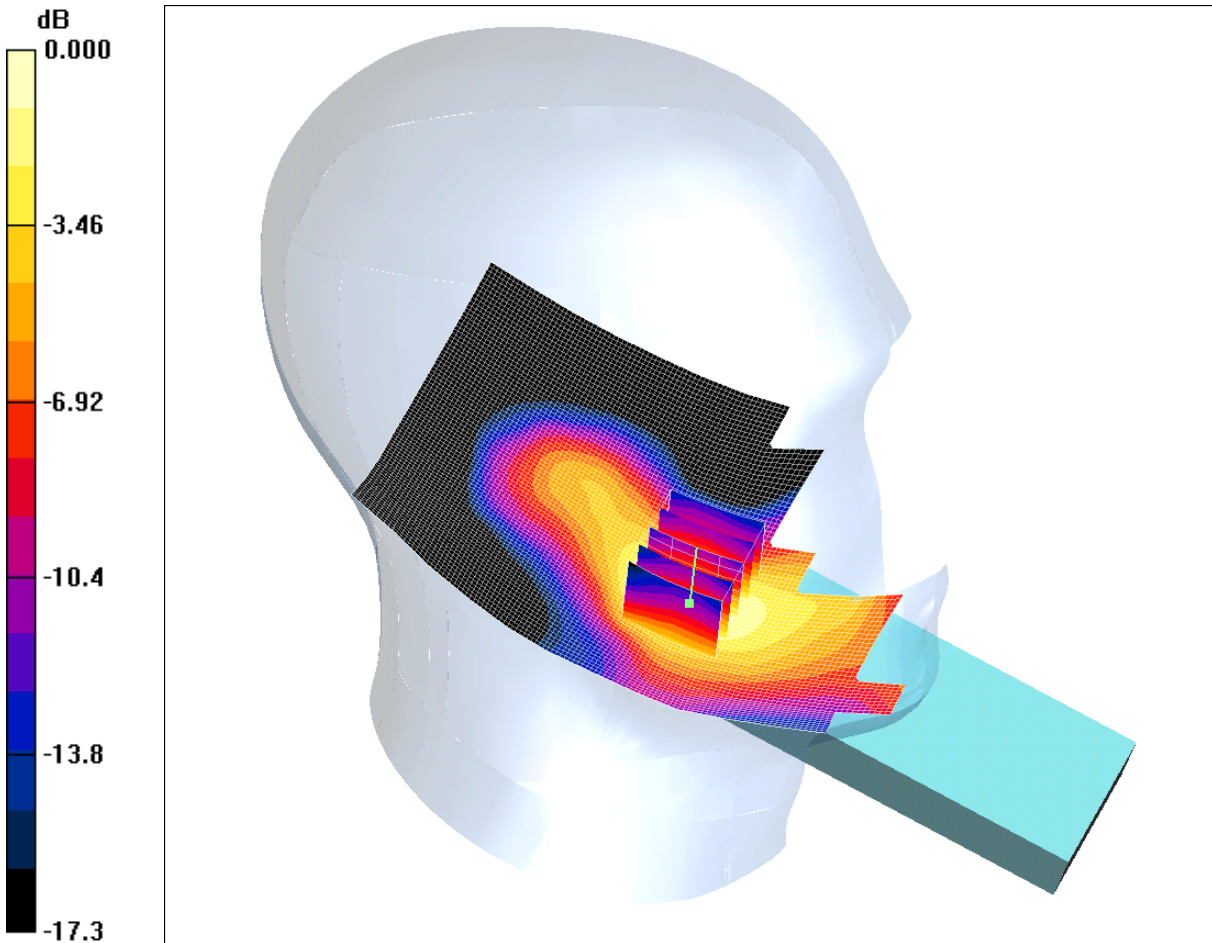
Maximum value of SAR (measured) = 0.128 mW/g



SCN/81350JD01/019: Touch Left PCS CH810

Date 12/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.119mW/g

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: 1900 MHz HSL Medium parameters used (interpolated):  $f = 1909.8$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 38.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.83, 8.83, 8.83); Calibrated: 15/02/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 09/02/2011
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Touch Left - High/Area Scan (81x171x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.124 mW/g

**Touch Left - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.84 V/m; Power Drift = -0.093 dB

Peak SAR (extrapolated) = 0.182 W/kg

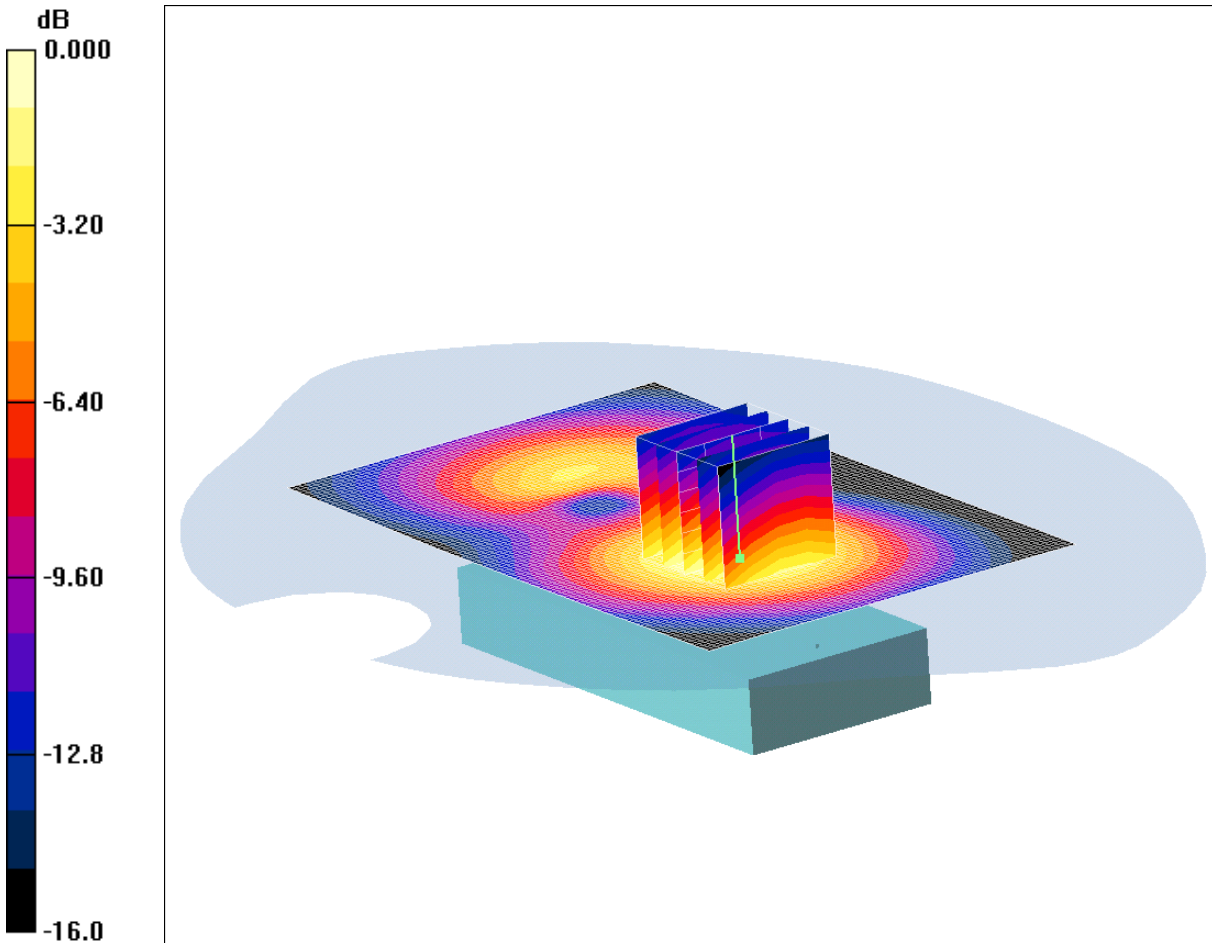
**SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.064 mW/g**

Maximum value of SAR (measured) = 0.119 mW/g

SCN/81350JD01/020: Front of EUT Closed Facing Phantom GPRS CH660

Date 11/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.420mW/g

Communication System: GPRS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:4

Medium: 1900 MHz MSL Medium parameters used (interpolated):  $f = 1879.8$  MHz;  $\sigma = 1.55$  mho/m;  $\epsilon_r = 51.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.56, 8.56, 8.56); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Front of EUT Facing Phantom - Middle/Area Scan (71x111x1):** Measurement grid: dx=15mm, dy=15mm

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

**Front of EUT Facing Phantom - Middle/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.58 V/m; Power Drift = 0.046 dB

Peak SAR (extrapolated) = 0.619 W/kg

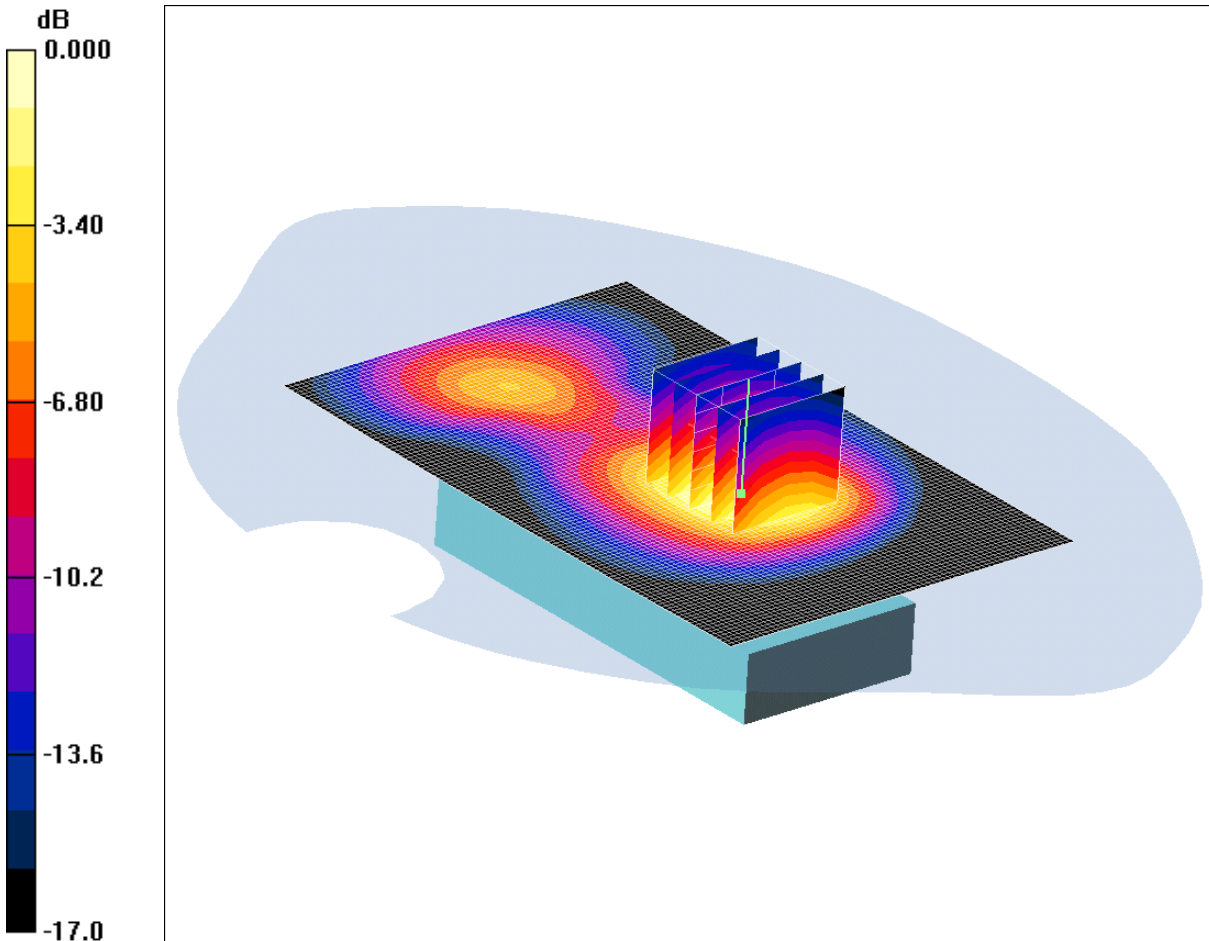
**SAR(1 g) = 0.388 mW/g; SAR(10 g) = 0.240 mW/g**

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

SCN/81350JD01/021: Rear of EUT Closed Facing Phantom GPRS CH660

Date 11/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.646mW/g

Communication System: GPRS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:4

Medium: 1900 MHz MSL Medium parameters used (interpolated):  $f = 1879.8$  MHz;  $\sigma = 1.55$  mho/m;  $\epsilon_r = 51.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.56, 8.56, 8.56); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - Middle/Area Scan (71x111x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.694 mW/g

**Rear of EUT Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = 0.105 dB

Peak SAR (extrapolated) = 1.01 W/kg

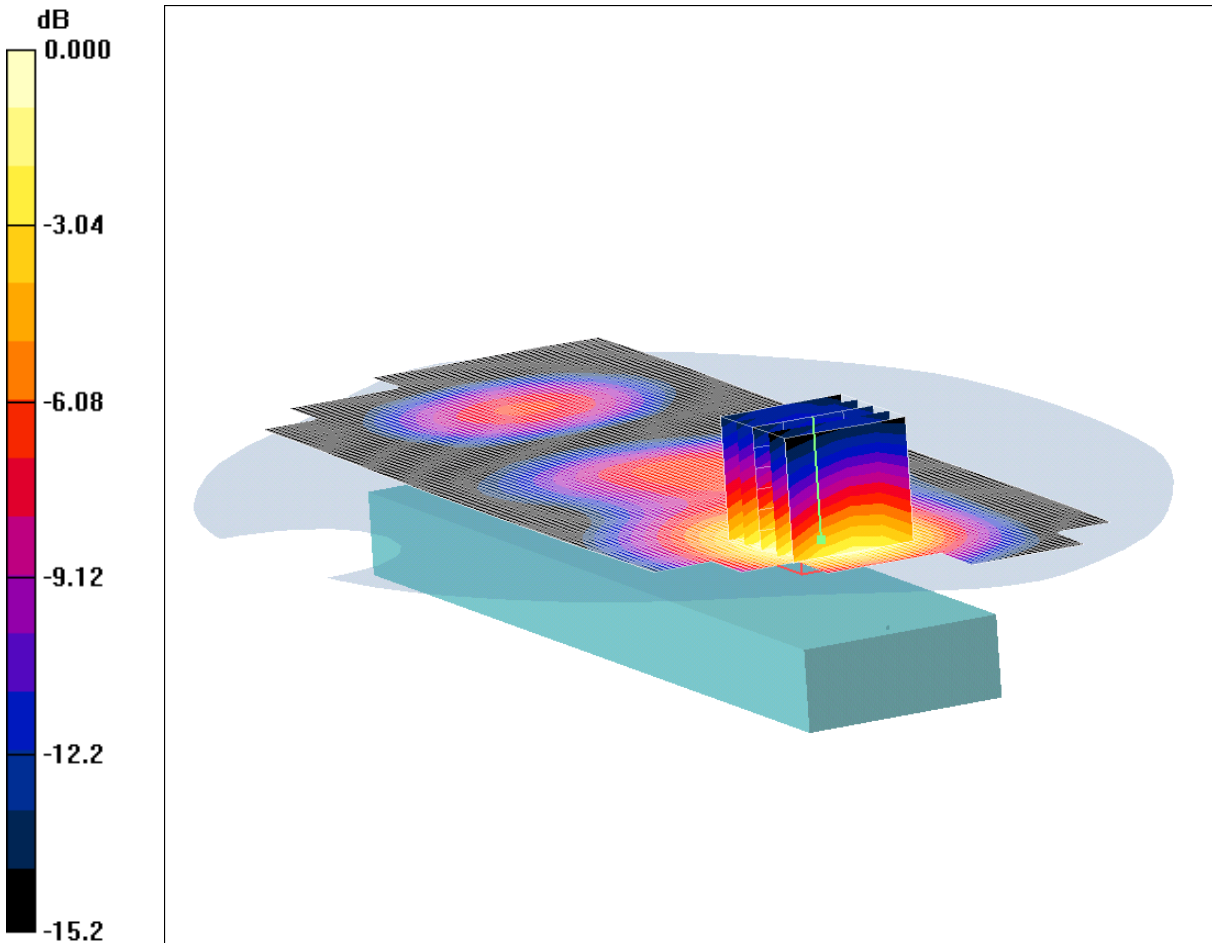
**SAR(1 g) = 0.595 mW/g; SAR(10 g) = 0.339 mW/g**

Maximum value of SAR (measured) = 0.646 mW/g

SCN/81350JD01/022: Front of EUT Open Facing Phantom GPRS CH660

Date 11/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.562mW/g

Communication System: GPRS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:4

Medium: 1900 MHz MSL Medium parameters used (interpolated):  $f = 1879.8$  MHz;  $\sigma = 1.55$  mho/m;  $\epsilon_r = 51.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.56, 8.56, 8.56); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - Middle/Area Scan (71x181x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.575 mW/g

**Rear of EUT Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.28 V/m; Power Drift = -0.354 dB

Peak SAR (extrapolated) = 0.838 W/kg

**SAR(1 g) = 0.517 mW/g; SAR(10 g) = 0.309 mW/g**

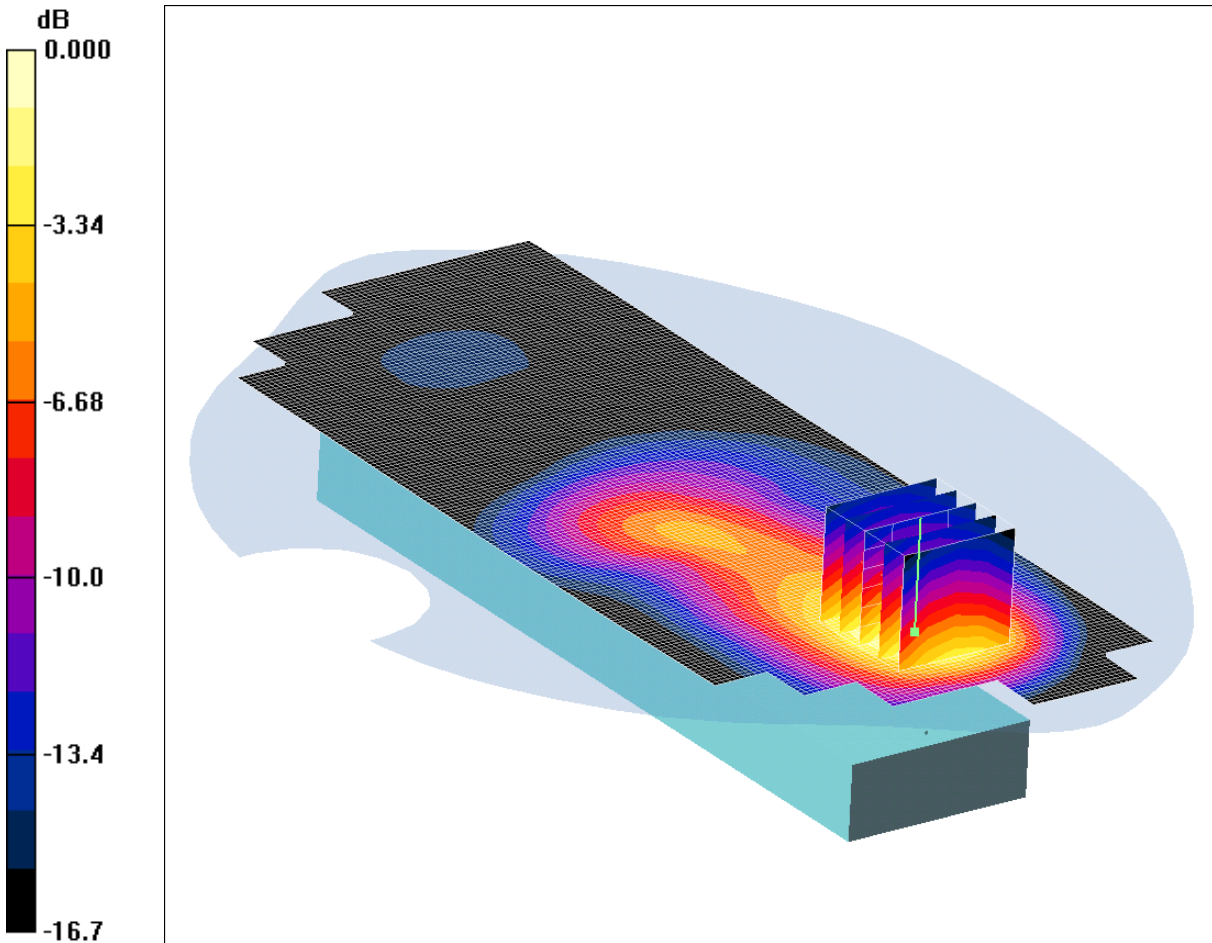
Maximum value of SAR (measured) = 0.562 mW/g



SCN/81350JD01/023: Rear of EUT Open Facing Phantom GPRS CH660

Date 11/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.595mW/g

Communication System: GPRS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:4

Medium: 1900 MHz MSL Medium parameters used (interpolated):  $f = 1879.8 \text{ MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.56, 8.56, 8.56); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - Middle/Area Scan (71x181x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (interpolated) = 0.636 mW/g

**Rear of EUT Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 6.73 V/m; Power Drift = -0.055 dB

Peak SAR (extrapolated) = 0.915 W/kg

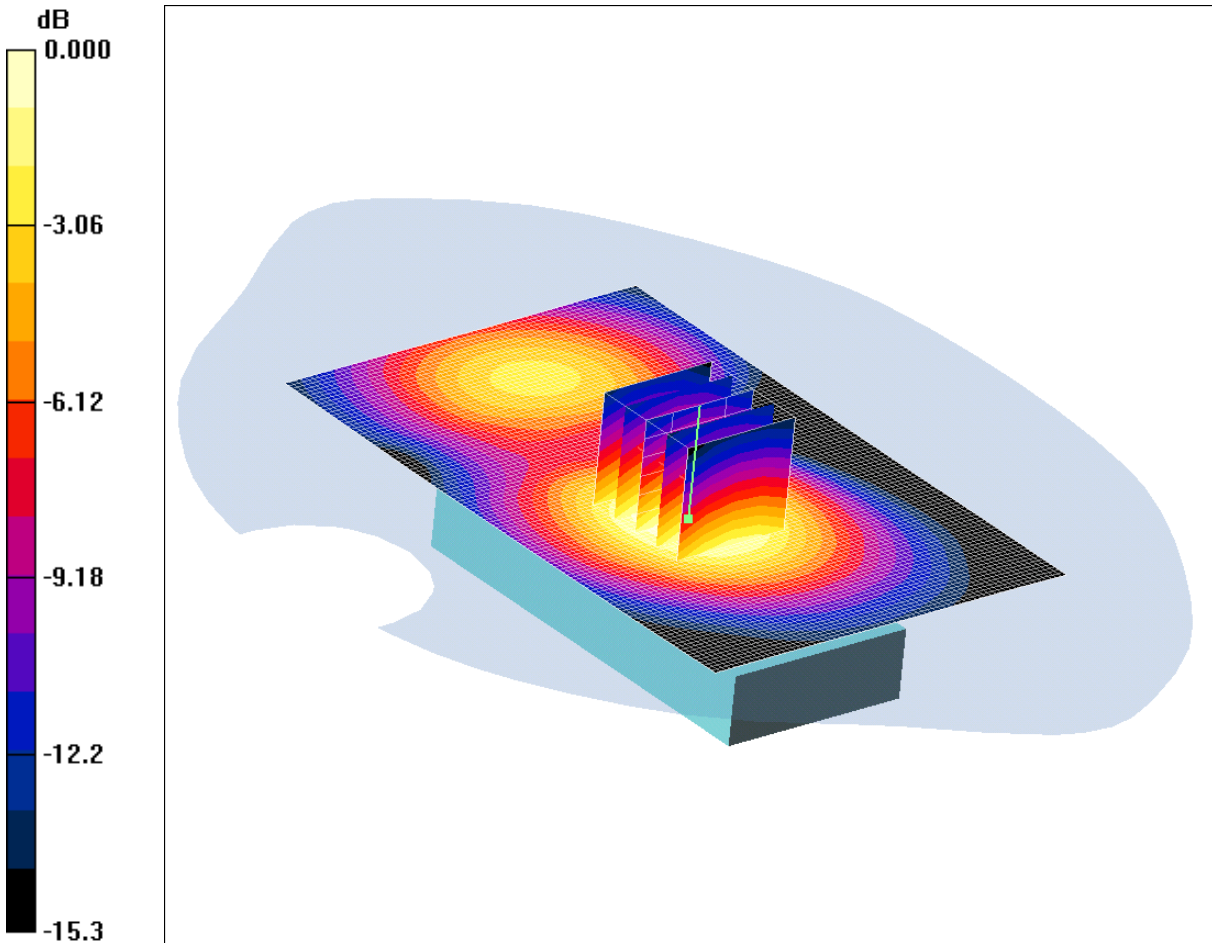
**SAR(1 g) = 0.546 mW/g; SAR(10 g) = 0.309 mW/g**

Maximum value of SAR (measured) = 0.595 mW/g

SCN/81350JD01/024: EUT Screen Swivel &amp; Display Facing Phantom GPRS CH660

Date 11/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.334mW/g

Communication System: GPRS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:4

Medium: 1900 MHz MSL Medium parameters used (interpolated):  $f = 1879.8 \text{ MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.56, 8.56, 8.56); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**EUT Screen Swivel & Display Facing Phantom - Middle/Area Scan (71x111x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.337 mW/g

**EUT Screen Swivel & Display Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement

grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.31 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 0.475 W/kg

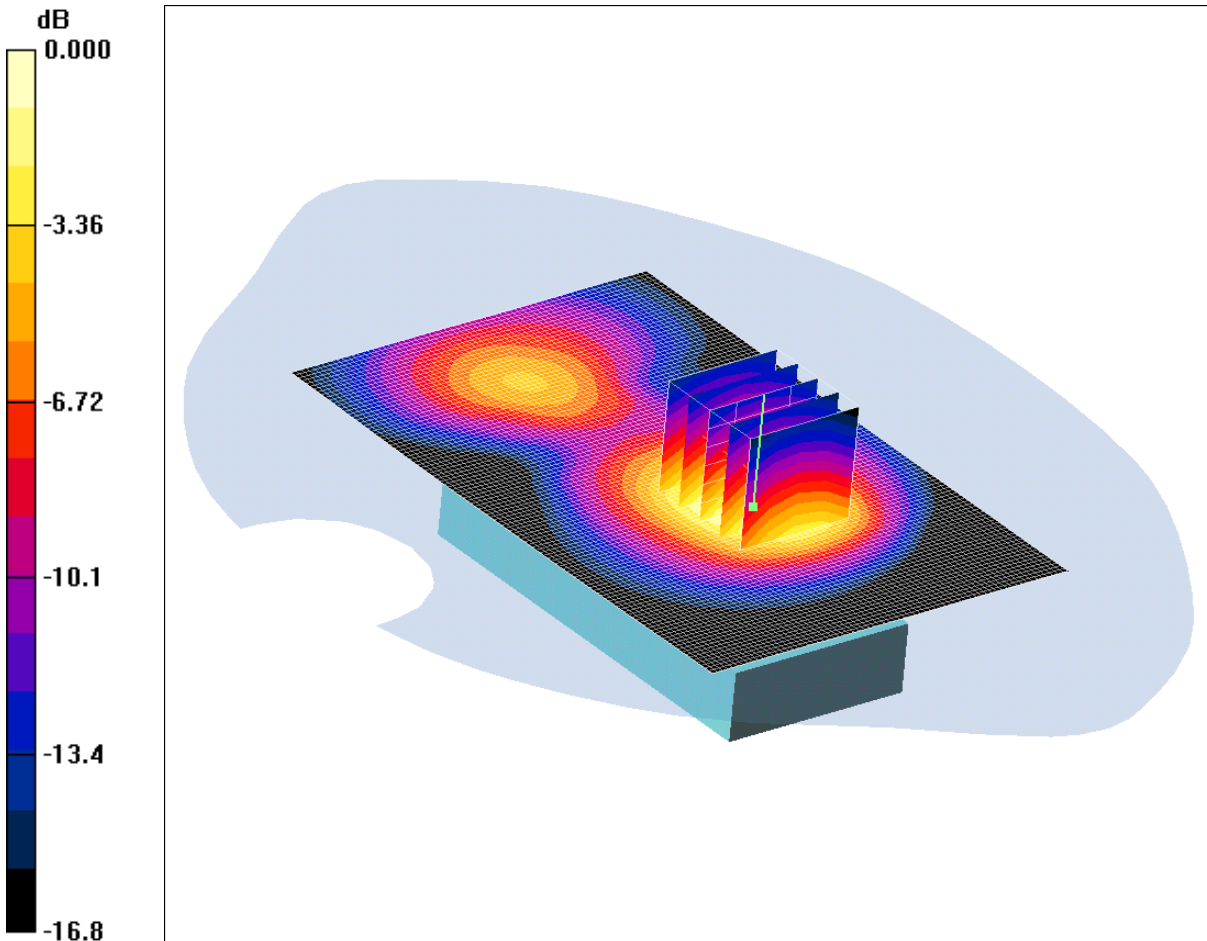
**SAR(1 g) = 0.307 mW/g; SAR(10 g) = 0.190 mW/g**

Maximum value of SAR (measured) = 0.334 mW/g

SCN/81350JD01/025: Rear of EUT Closed Facing Phantom GPRS CH512

Date 11/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.519mW/g

Communication System: GPRS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium: 1900 MHz MSL Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.53$  mho/m;  $\epsilon_r = 51.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.56, 8.56, 8.56); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - Low/Area Scan (71x111x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.541 mW/g

**Rear of EUT Facing Phantom - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.4 V/m; Power Drift = -0.067 dB

Peak SAR (extrapolated) = 0.796 W/kg

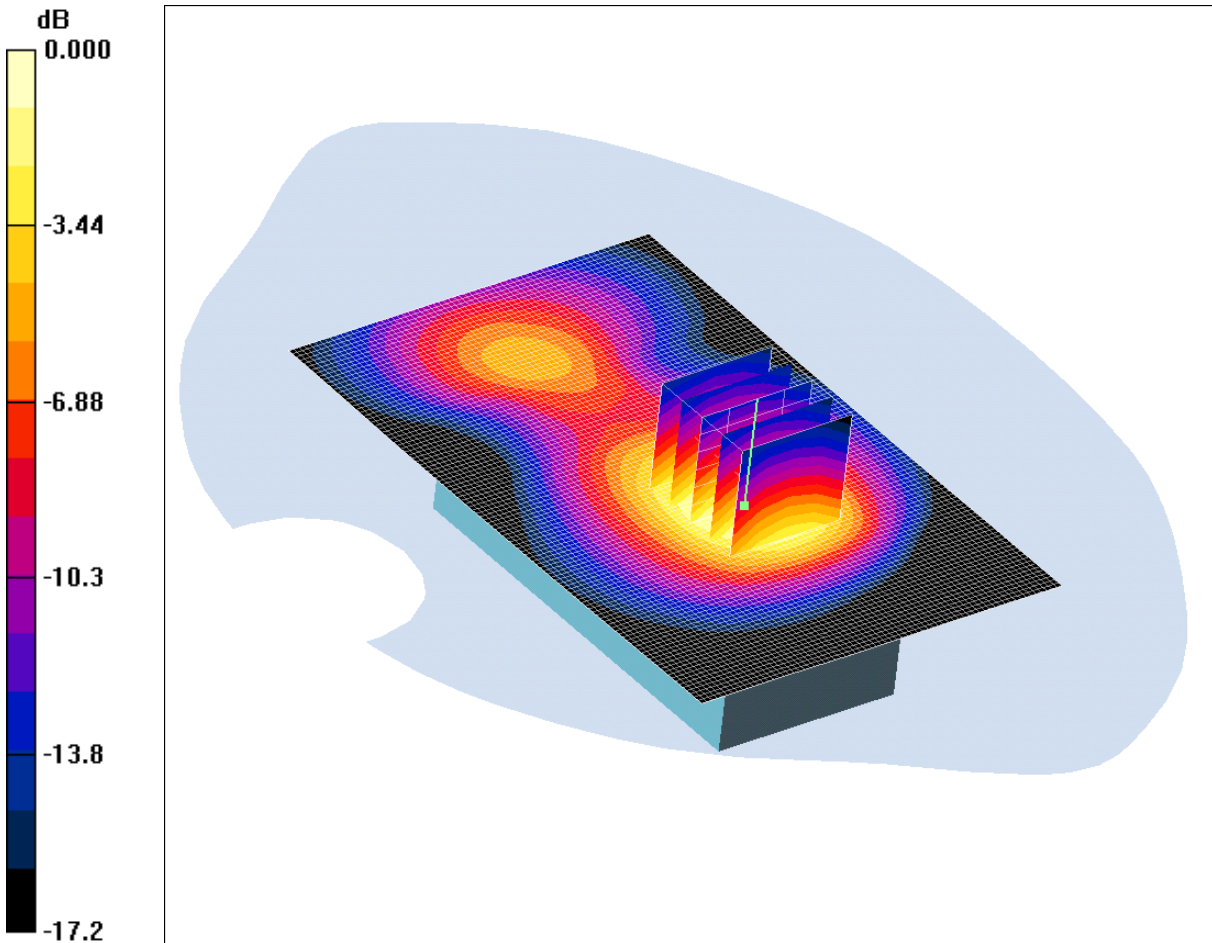
**SAR(1 g) = 0.476 mW/g; SAR(10 g) = 0.273 mW/g**

Maximum value of SAR (measured) = 0.519 mW/g

SCN/81350JD01/026: Rear of EUT Closed Facing Phantom GPRS CH810

Date 11/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.565mW/g

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium: 1900 MHz MSL Medium parameters used (interpolated):  $f = 1909.8 \text{ MHz}$ ;  $\sigma = 1.57 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.56, 8.56, 8.56); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - High/Area Scan (71x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (interpolated) = 0.595 mW/g

**Rear of EUT Facing Phantom - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 11.7 V/m; Power Drift = -0.201 dB

Peak SAR (extrapolated) = 0.876 W/kg

**SAR(1 g) = 0.523 mW/g; SAR(10 g) = 0.299 mW/g**

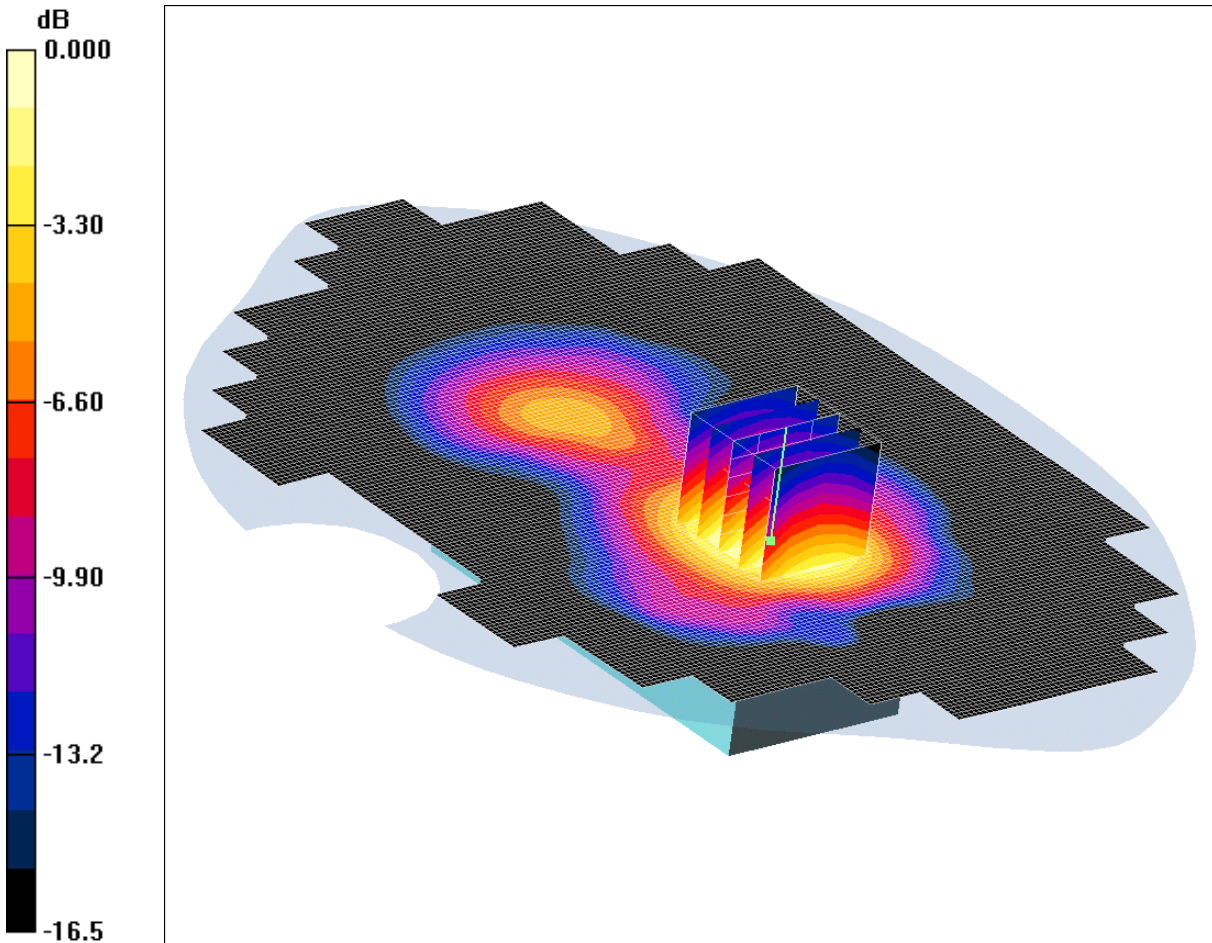
Maximum value of SAR (measured) = 0.565 mW/g



SCN/81350JD01/027: Rear of EUT Closed With PHF Facing Phantom GPRS CH660

Date 11/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.564mW/g

Communication System: GPRS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:4

Medium: 1900 MHz MSL Medium parameters used (interpolated):  $f = 1879.8$  MHz;  $\sigma = 1.55$  mho/m;  $\epsilon_r = 51.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.56, 8.56, 8.56); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - Middle/Area Scan (121x181x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.575 mW/g

**Rear of EUT Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.06 V/m; Power Drift = -0.305 dB

Peak SAR (extrapolated) = 0.859 W/kg

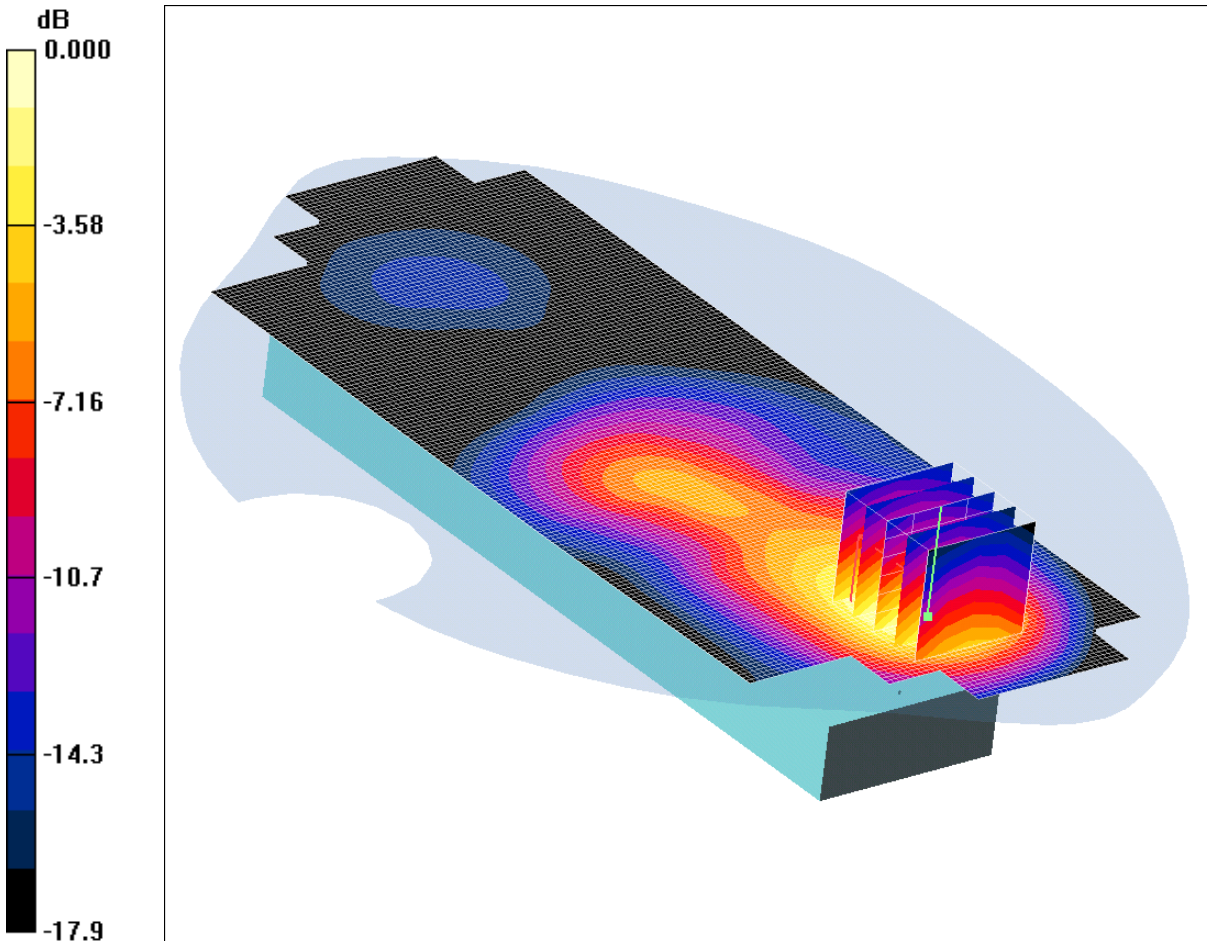
**SAR(1 g) = 0.521 mW/g; SAR(10 g) = 0.303 mW/g**

Maximum value of SAR (measured) = 0.564 mW/g

SCN/81350JD01/028: Rear of EUT Open Facing Phantom PCS CH660

Date 11/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.323mW/g

Communication System: PCS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:8.3

Medium: 1900 MHz MSL Medium parameters used (interpolated):  $f = 1879.8 \text{ MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.56, 8.56, 8.56); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - Middle/Area Scan (71x201x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (interpolated) = 0.331 mW/g

**Rear of EUT Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 5.18 V/m; Power Drift = -0.187 dB

Peak SAR (extrapolated) = 0.507 W/kg

**SAR(1 g) = 0.298 mW/g; SAR(10 g) = 0.168 mW/g**

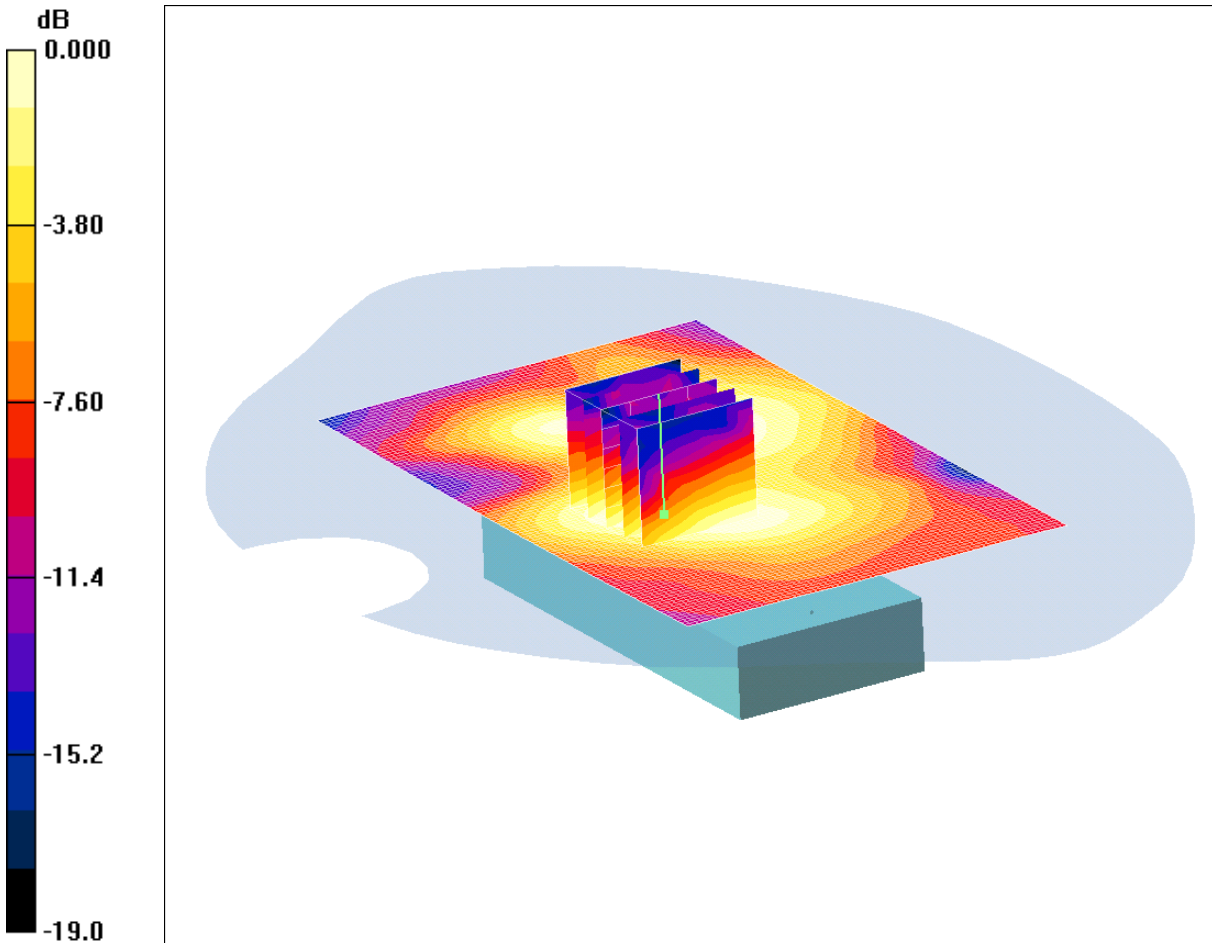
Maximum value of SAR (measured) = 0.323 mW/g

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SCN/81350JD01/029: Front of EUT Closed Facing Phantom WLAN 802.11b 1Mbps CH6

Date 12/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.019mW/g

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 52.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(7.97, 7.97, 7.97); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Front of EUT Facing Phantom - Middle/Area Scan (71x111x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.020 mW/g

**Front of EUT Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.41 V/m; Power Drift = 0.102 dB

Peak SAR (extrapolated) = 0.031 W/kg

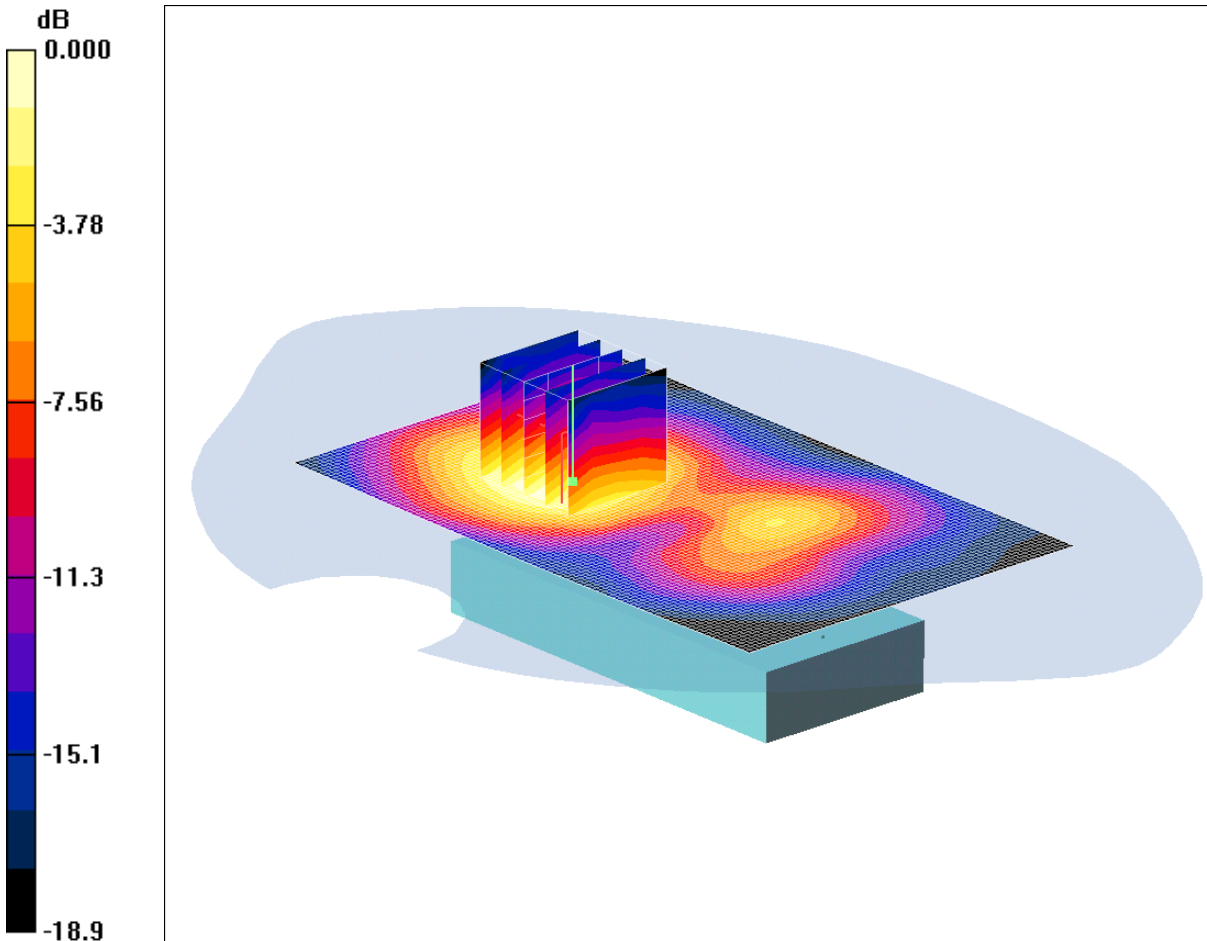
**SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.011 mW/g**

Maximum value of SAR (measured) = 0.019 mW/g

SCN/81350JD01/030: Rear of EUT Closed Facing Phantom WLAN 802.11b 1Mbps CH6

Date 12/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.089mW/g

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 52.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(7.97, 7.97, 7.97); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - Middle/Area Scan (71x111x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.093 mW/g

**Rear of EUT Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.29 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 0.141 W/kg

**SAR(1 g) = 0.083 mW/g; SAR(10 g) = 0.048 mW/g**

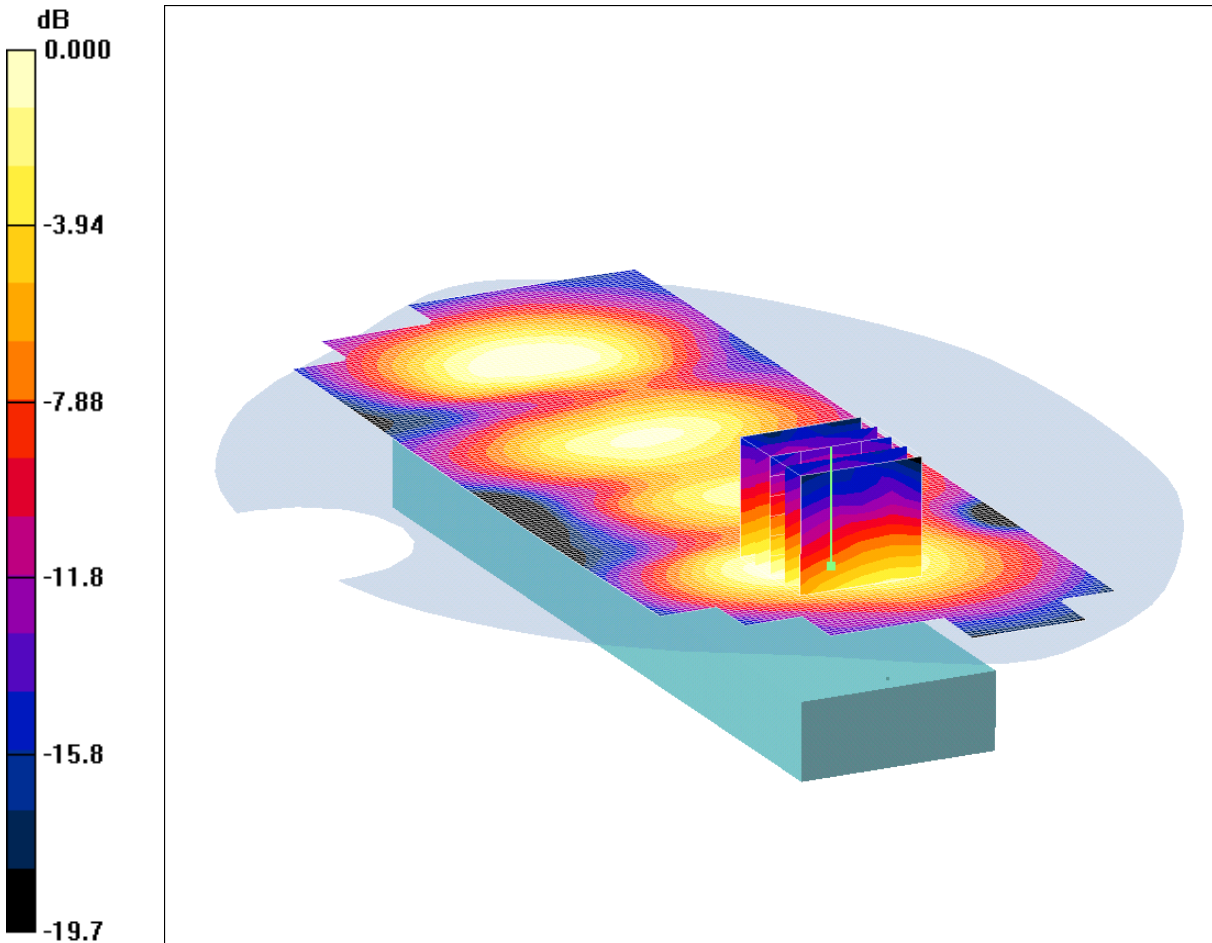
Maximum value of SAR (measured) = 0.089 mW/g



SCN/81350JD01/031: Front of EUT Open Facing Phantom WLAN 802.11b 1Mbps CH6

Date 12/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.079mW/g

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 52.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(7.97, 7.97, 7.97); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Front of EUT Facing Phantom - Middle/Area Scan (71x181x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.082 mW/g

**Front of EUT Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.78 V/m; Power Drift = 0.072 dB

Peak SAR (extrapolated) = 0.123 W/kg

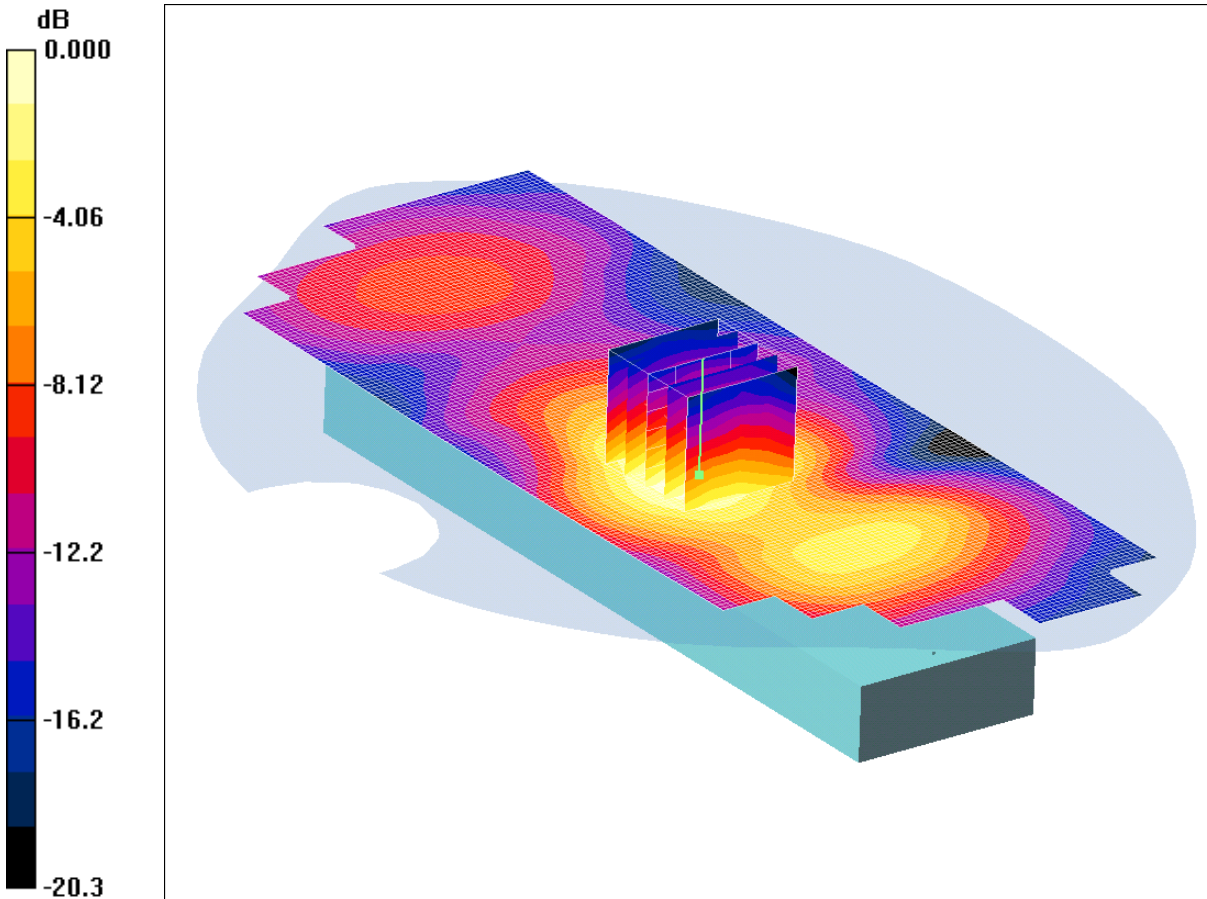
**SAR(1 g) = 0.073 mW/g; SAR(10 g) = 0.042 mW/g**

Maximum value of SAR (measured) = 0.079 mW/g

SCN/81350JD01/032: Rear of EUT Open Facing Phantom WLAN 802.11b 1Mbps CH6

Date 12/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.110mW/g

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 52.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(7.97, 7.97, 7.97); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - Middle/Area Scan (71x181x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.112 mW/g

**Rear of EUT Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.80 V/m; Power Drift = -0.211 dB

Peak SAR (extrapolated) = 0.176 W/kg

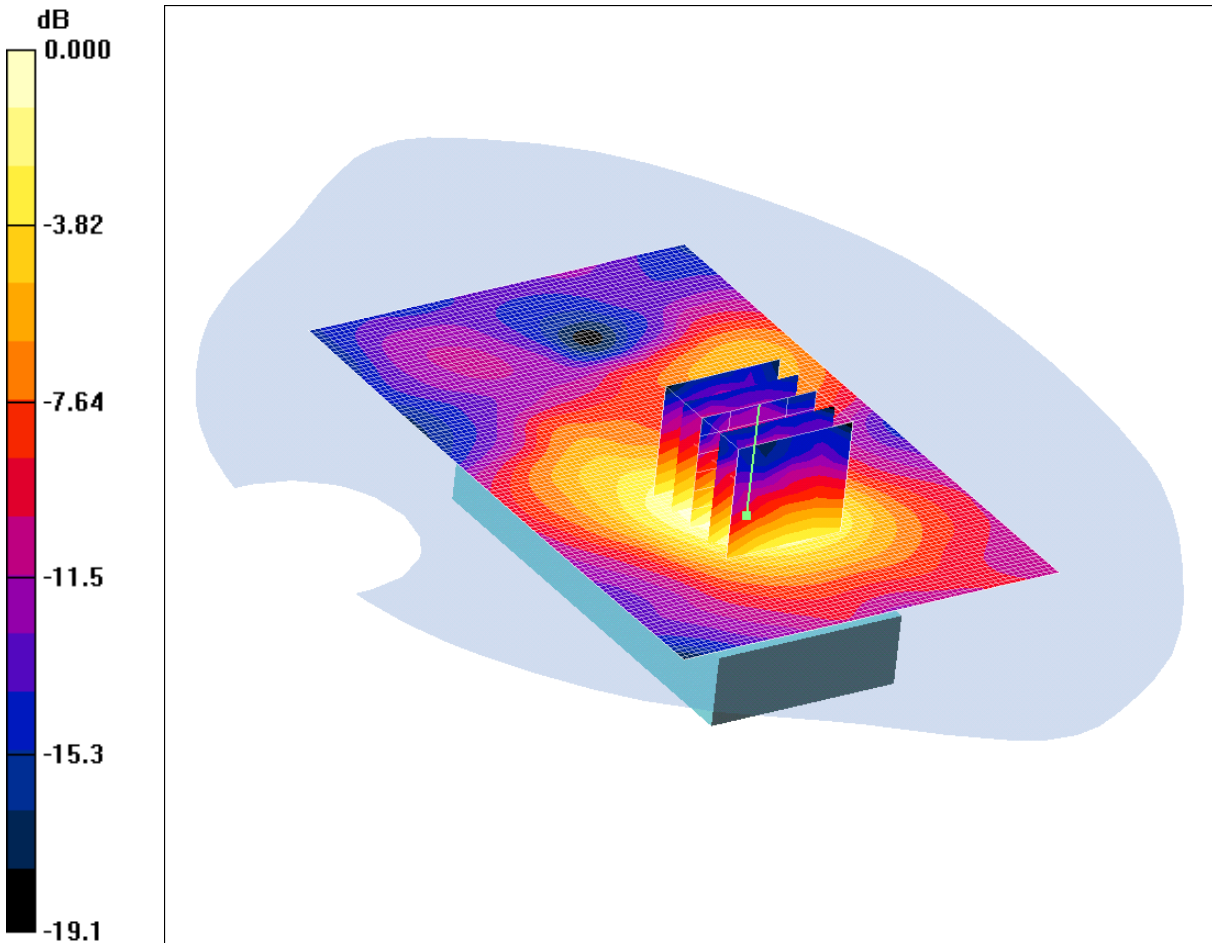
**SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.057 mW/g**

Maximum value of SAR (measured) = 0.110 mW/g

SCN/81350JD01/033: EUT Screen Swivel &amp; Display Facing Phantom WLAN 802.11b 1Mbps CH6

Date 12/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.038mW/g

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 52.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(7.97, 7.97, 7.97); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**EUT Screen Swivel & Display Facing Phantom - Middle/Area Scan (71x111x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.040 mW/g

**EUT Screen Swivel & Display Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement

grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.90 V/m; Power Drift = 0.250 dB

Peak SAR (extrapolated) = 0.058 W/kg

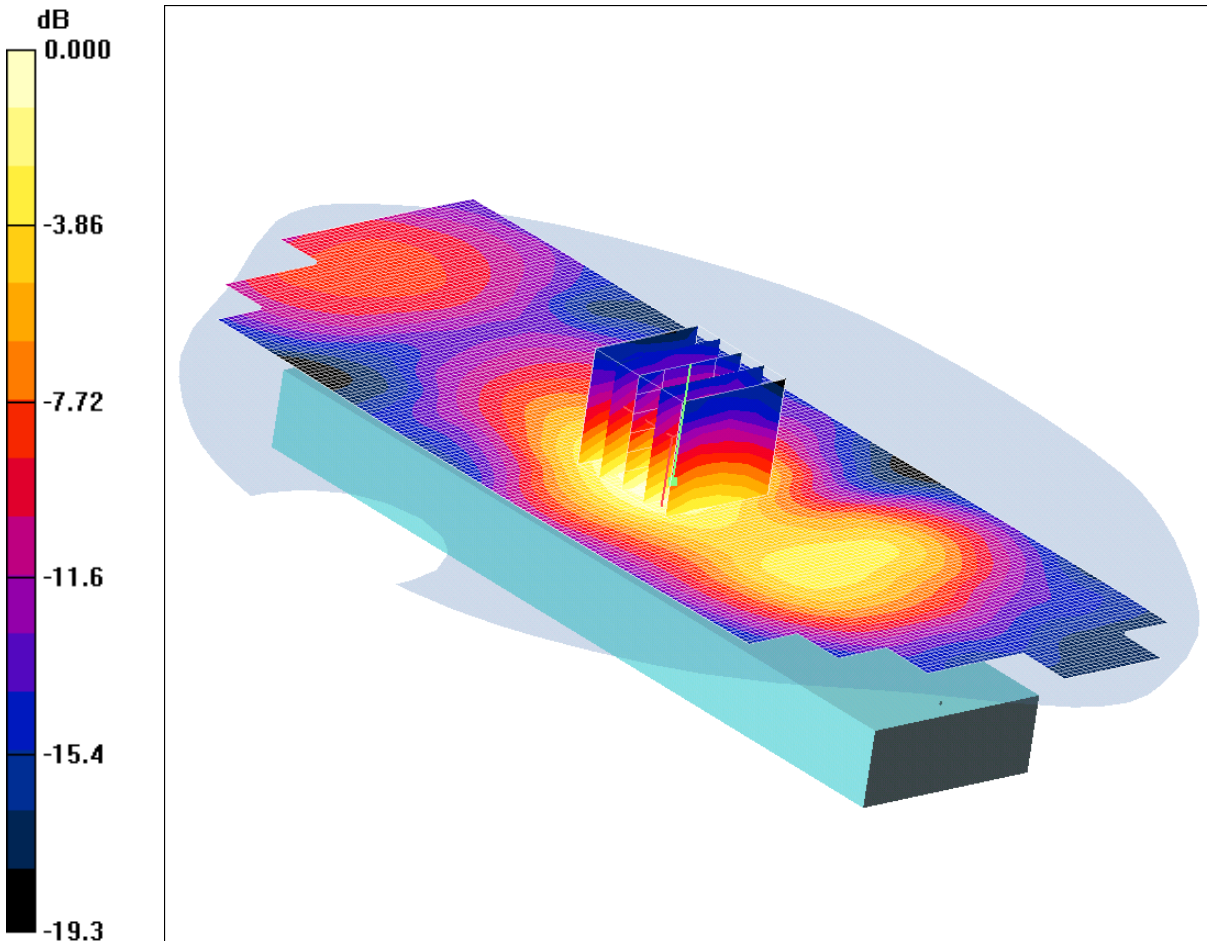
**SAR(1 g) = 0.034 mW/g; SAR(10 g) = 0.019 mW/g**

Maximum value of SAR (measured) = 0.038 mW/g

SCN/81350JD01/034: Rear of EUT Open Facing Phantom WLAN 802.11b 1Mbps CH1

Date 12/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.083mW/g

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.84$  mho/m;  $\epsilon_r = 52.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(7.97, 7.97, 7.97); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - Low/Area Scan (71x181x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.082 mW/g

**Rear of EUT Facing Phantom - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.19 V/m; Power Drift = 0.371 dB

Peak SAR (extrapolated) = 0.130 W/kg

**SAR(1 g) = 0.075 mW/g; SAR(10 g) = 0.042 mW/g**

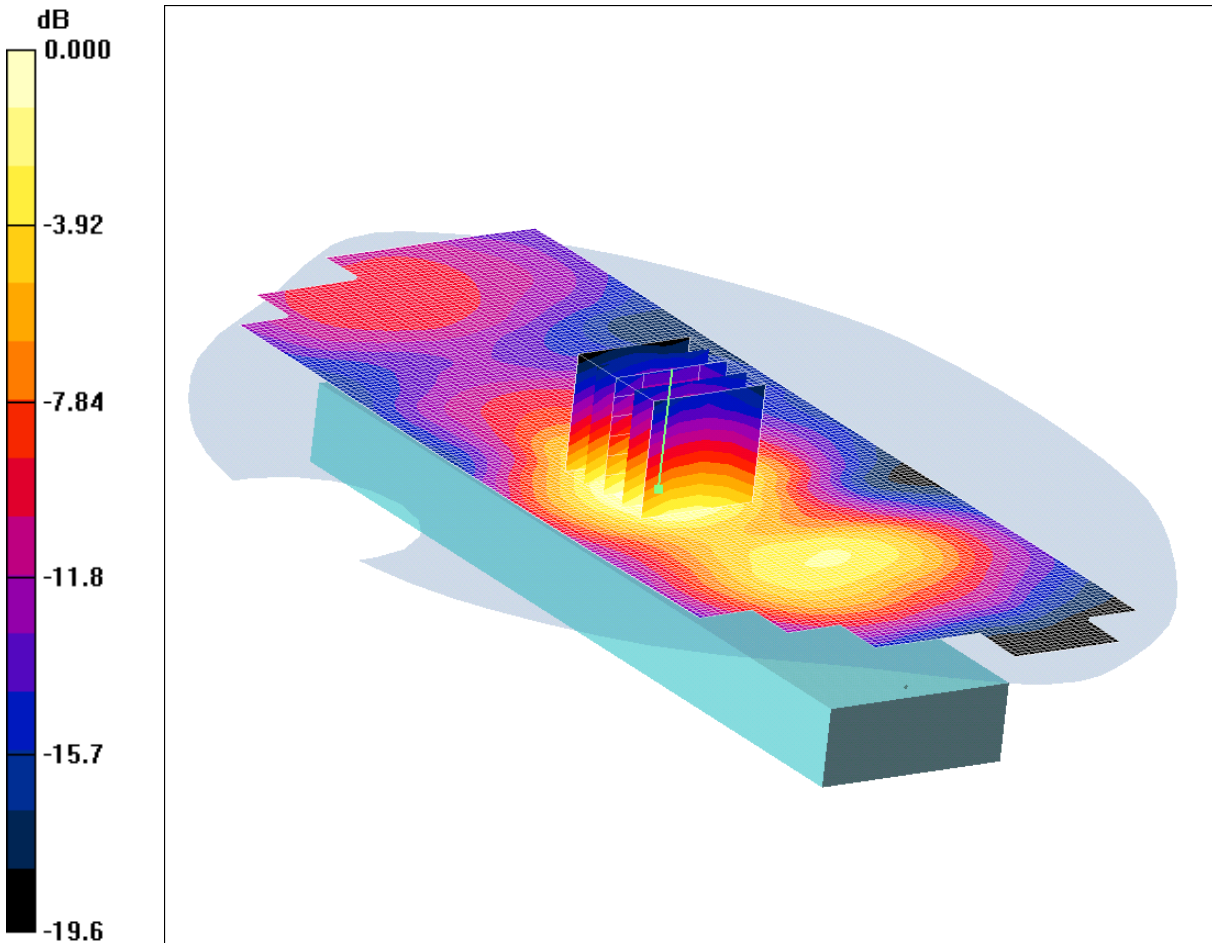
Maximum value of SAR (measured) = 0.083 mW/g



SCN/81350JD01/035: Rear of EUT Open Facing Phantom WLAN 802\_11b 1Mbps CH11

Date 12/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.112mW/g

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.89$  mho/m;  $\epsilon_r = 52.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(7.97, 7.97, 7.97); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - High/Area Scan (71x181x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.117 mW/g

**Rear of EUT Facing Phantom - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.30 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.176 W/kg

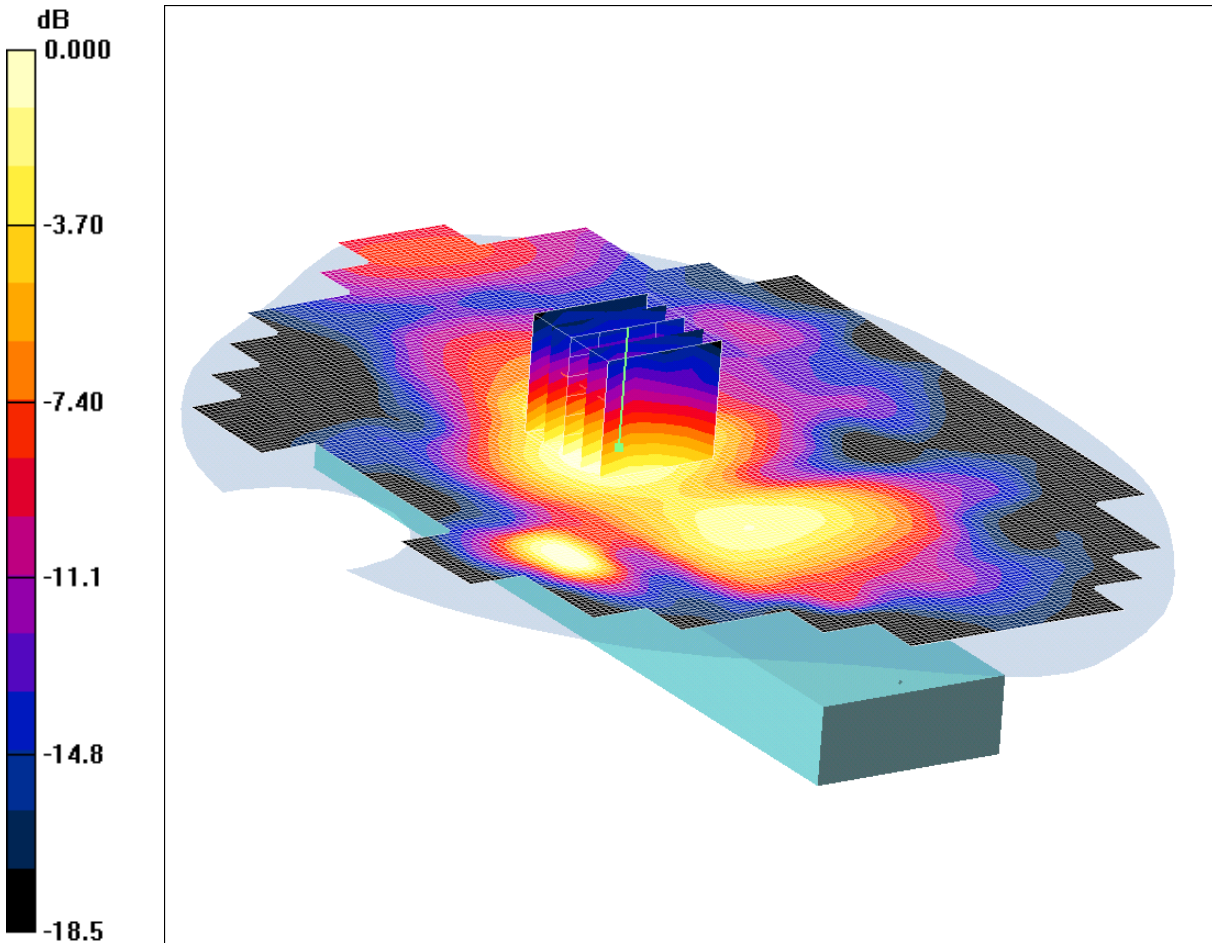
**SAR(1 g) = 0.103 mW/g; SAR(10 g) = 0.058 mW/g**

Maximum value of SAR (measured) = 0.112 mW/g

SCN/81350JD01/036: Rear of EUT Open Facing Phantom With PHF WLAN 802.11b 1Mbps CH11

Date 12/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.089mW/g

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.89$  mho/m;  $\epsilon_r = 52.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(7.97, 7.97, 7.97); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - High/Area Scan (121x181x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.093 mW/g

**Rear of EUT Facing Phantom - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.29 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 0.141 W/kg

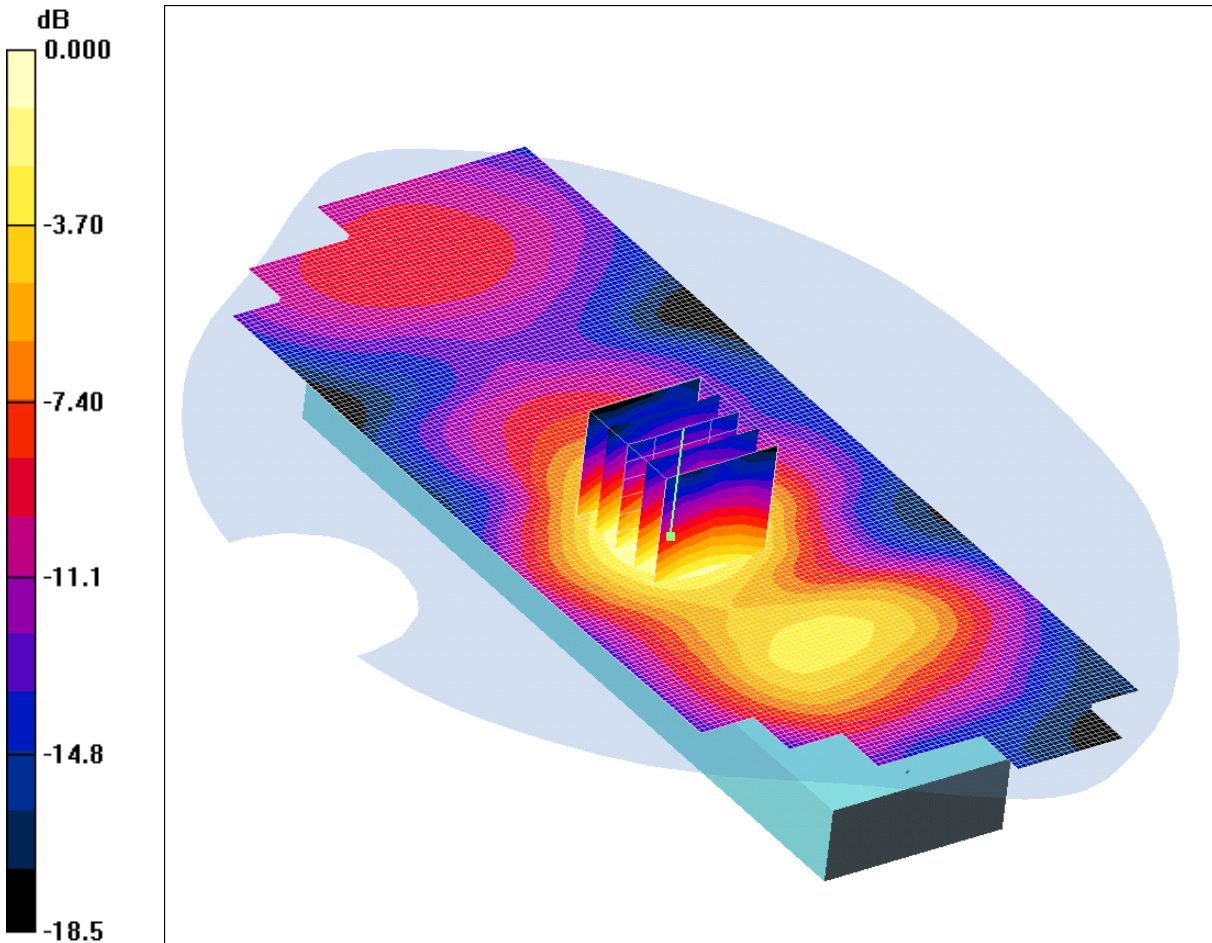
**SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.047 mW/g**

Maximum value of SAR (measured) = 0.089 mW/g

SCN/81350JD01/037: Rear of EUT Open Facing Phantom WLAN 802.11g 6Mbps CH6

Date 12/04/2011

DUT: Sony Ericsson Mobile Communications Int AB; Type: PTX 948; Serial: 004402141683031



0 dB = 0.095mW/g

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 52.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(7.97, 7.97, 7.97); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Rear of EUT Facing Phantom - Middle/Area Scan (71x181x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.095 mW/g

**Rear of EUT Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.20 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 0.149 W/kg

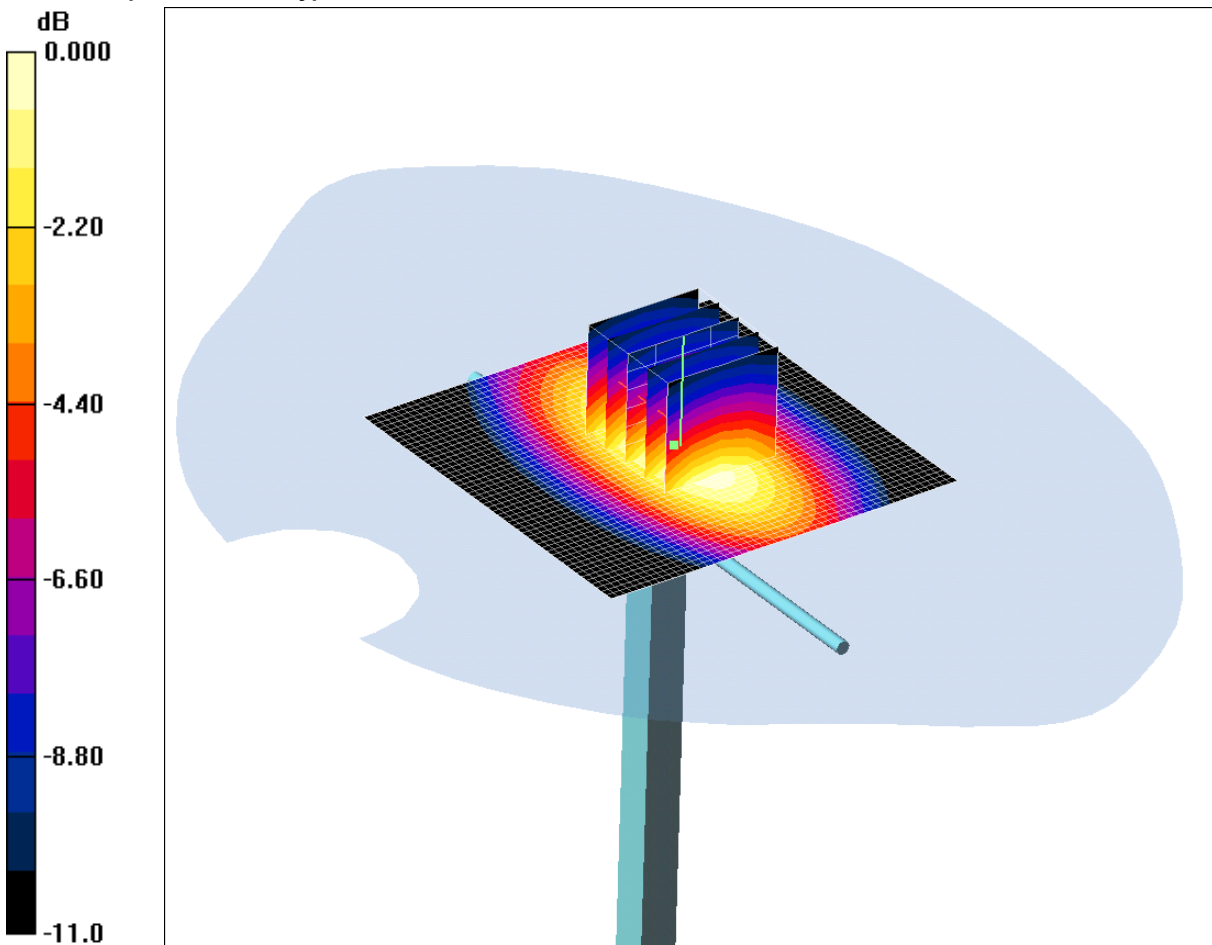
**SAR(1 g) = 0.087 mW/g; SAR(10 g) = 0.049 mW/g**

Maximum value of SAR (measured) = 0.095 mW/g

SCN/81350JD01/038: System Performance Check 900MHz Head 14 04 11

Date 14/04/2011

DUT: Dipole 900 MHz; Type: D900V2; Serial: SN124



0 dB = 2.83mW/g

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: 900 MHz HSL Medium parameters used:  $f = 900 \text{ MHz}$ ;  $\sigma = 0.96 \text{ mho/m}$ ;  $\epsilon_r = 41.8$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(10.23, 10.23, 10.23); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**d=15mm, Pin=250mW/Area Scan (51x51x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 2.84 mW/g

**d=15mm, Pin=250mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 53.2 V/m; Power Drift = 0.105 dB

Peak SAR (extrapolated) = 4.00 W/kg

**SAR(1 g) = 2.63 mW/g; SAR(10 g) = 1.71 mW/g**

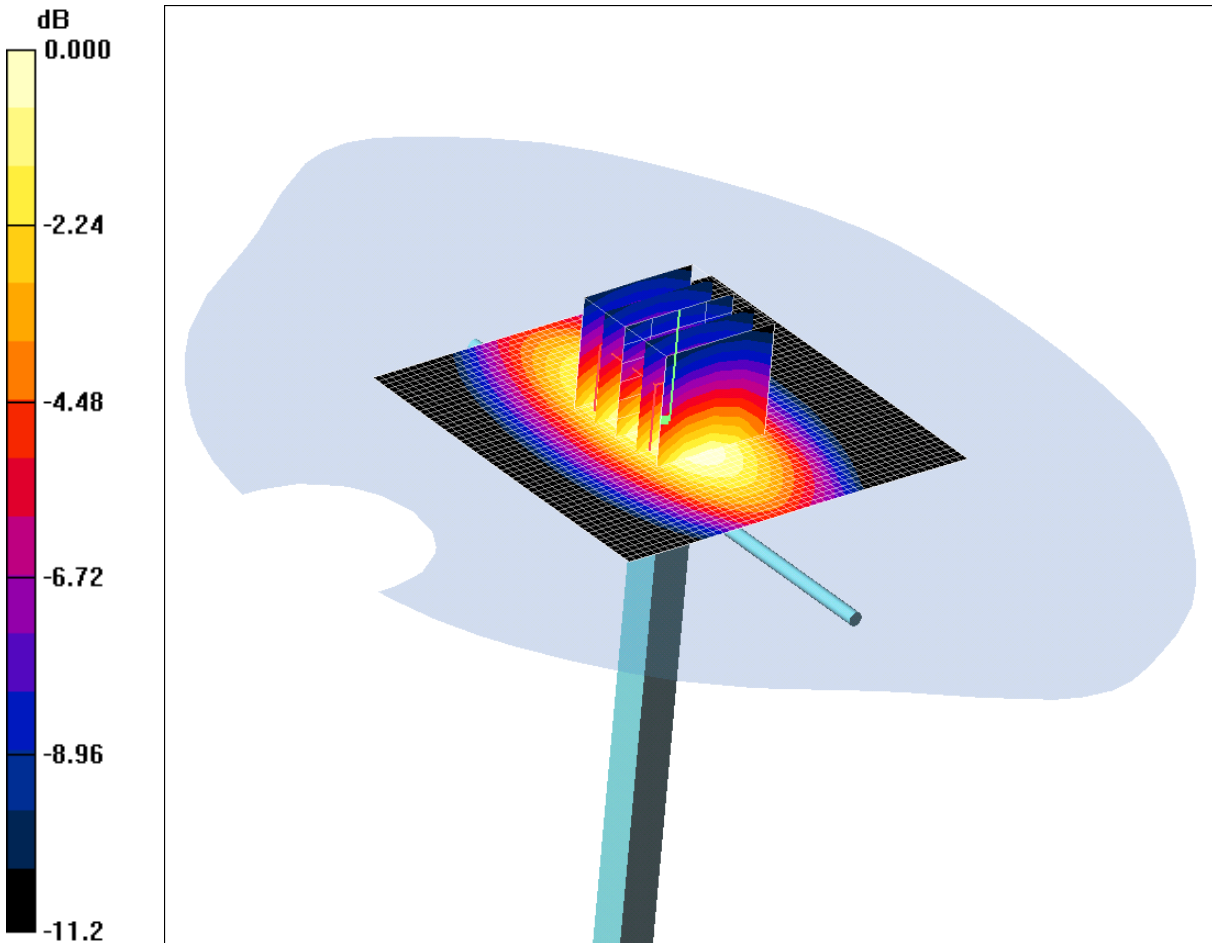
Maximum value of SAR (measured) = 2.83 mW/g



SCN/81350JD01/039: System Performance Check 900MHz Body 14 04 11

Date 14/04/2011

DUT: Dipole 900 MHz; Type: D900V2; Serial: SN124



0 dB = 2.86mW/g

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: 900 MHz MSL Medium parameters used:  $f = 900 \text{ MHz}$ ;  $\sigma = 1.03 \text{ mho/m}$ ;  $\epsilon_r = 54.6$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(10.27, 10.27, 10.27); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**d=15mm, Pin=250mW/Area Scan (51x51x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 3.03 mW/g

**d=15mm, Pin=250mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 53.0 V/m; Power Drift = -0.069 dB

Peak SAR (extrapolated) = 4.04 W/kg

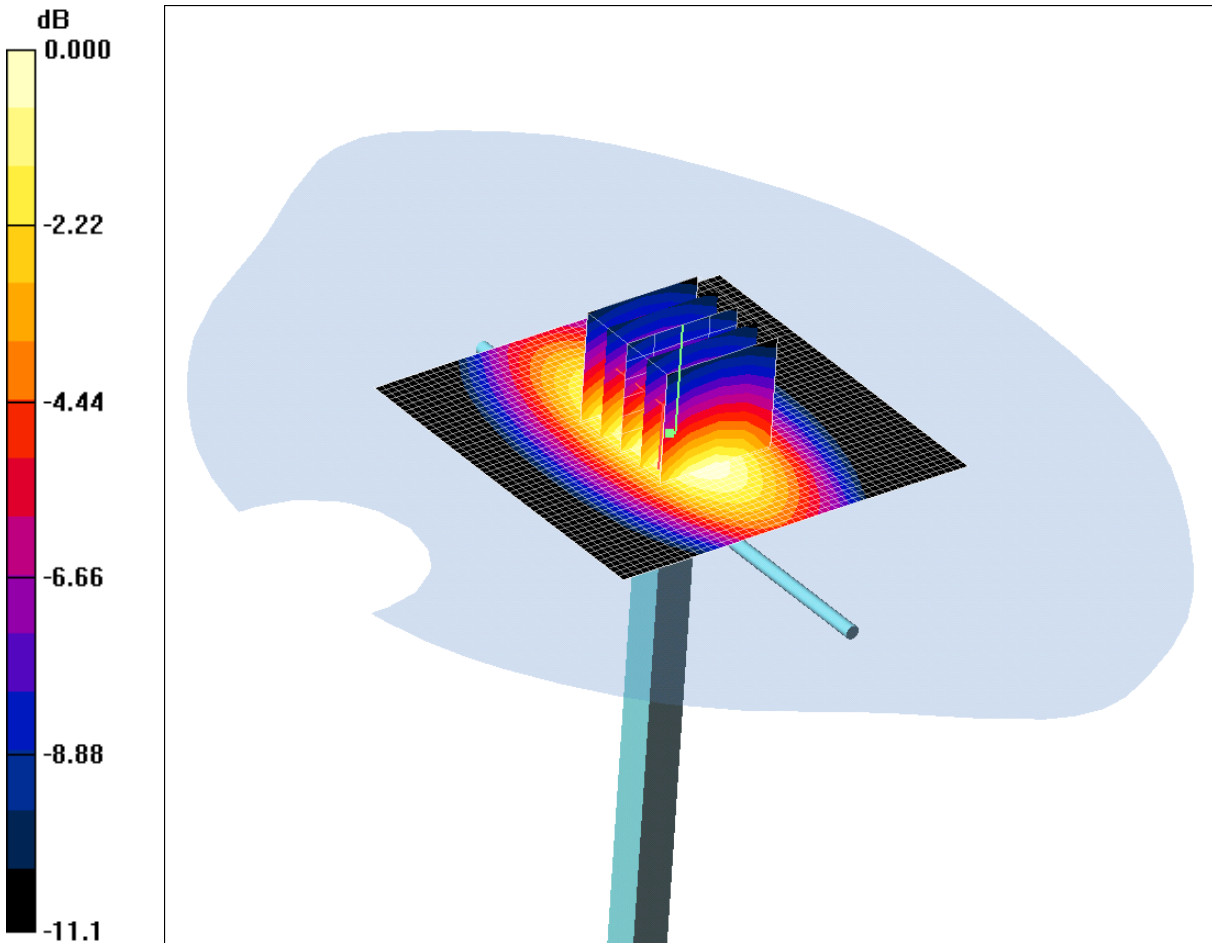
**SAR(1 g) = 2.67 mW/g; SAR(10 g) = 1.73 mW/g**

Maximum value of SAR (measured) = 2.86 mW/g

SCN/81350JD01/040: System Performance Check 900MHz Body 15 04 11

Date 15/04/2011

DUT: Dipole 900 MHz; Type: D900V2; Serial: SN124



0 dB = 3.01mW/g

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: 900 MHz MSL Medium parameters used:  $f = 900 \text{ MHz}$ ;  $\sigma = 1.03 \text{ mho/m}$ ;  $\epsilon_r = 54.6$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(10.27, 10.27, 10.27); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**d=15mm, Pin=250mW/Area Scan (51x51x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 3.13 mW/g

**d=15mm, Pin=250mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 53.2 V/m; Power Drift = 0.104 dB

Peak SAR (extrapolated) = 4.24 W/kg

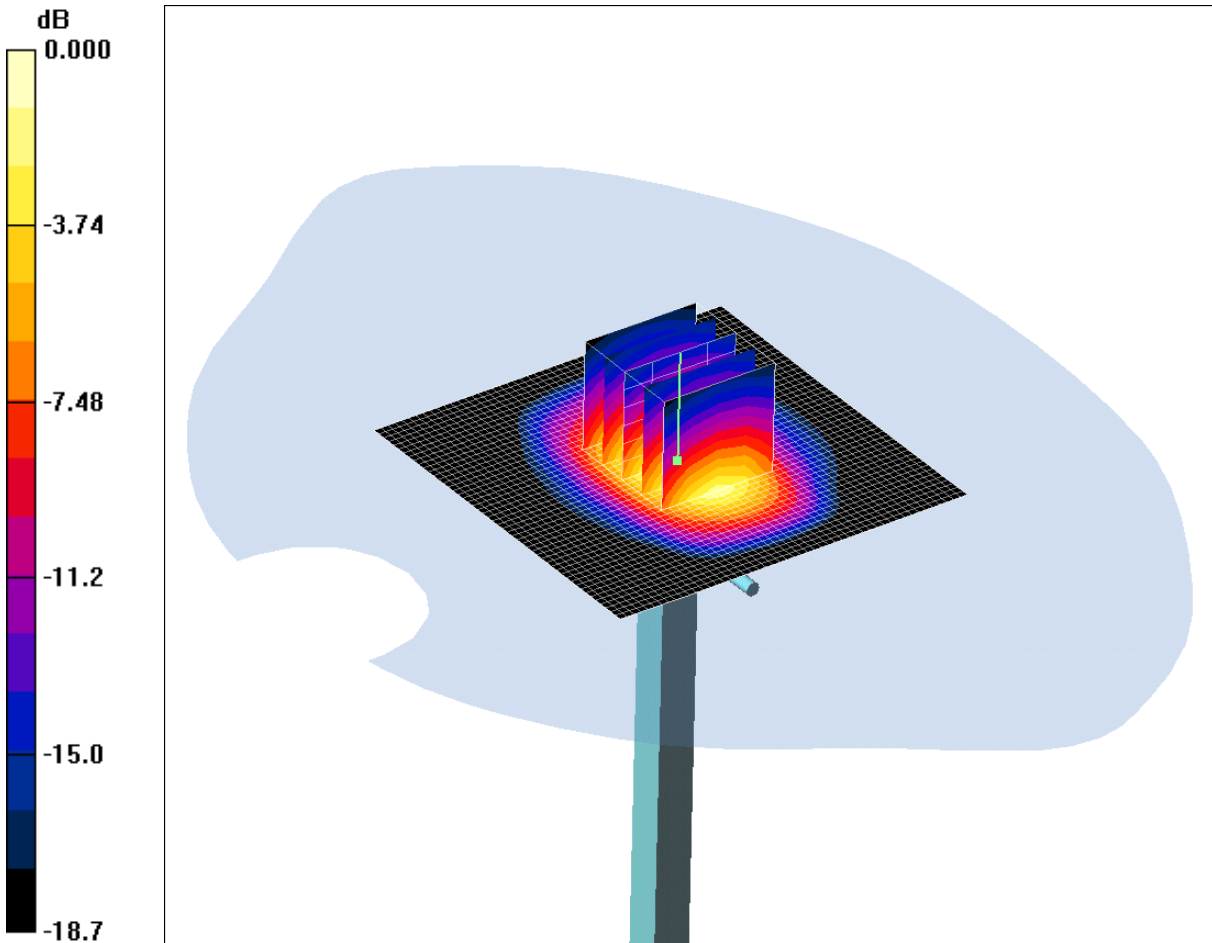
**SAR(1 g) = 2.81 mW/g; SAR(10 g) = 1.82 mW/g**

Maximum value of SAR (measured) = 3.01 mW/g

SCN/81350JD01/041: System Performance Check 1900MHz Head 12 04 11

Date 12/04/2011

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN540



0 dB = 11.7mW/g

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

Medium: 1900 MHz HSL Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 38.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.83, 8.83, 8.83); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**d=10mm, Pin=250mW/Area Scan (51x51x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 15.4 mW/g

**d=10mm, Pin=250mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 88.6 V/m; Power Drift = 0.130 dB

Peak SAR (extrapolated) = 19.8 W/kg

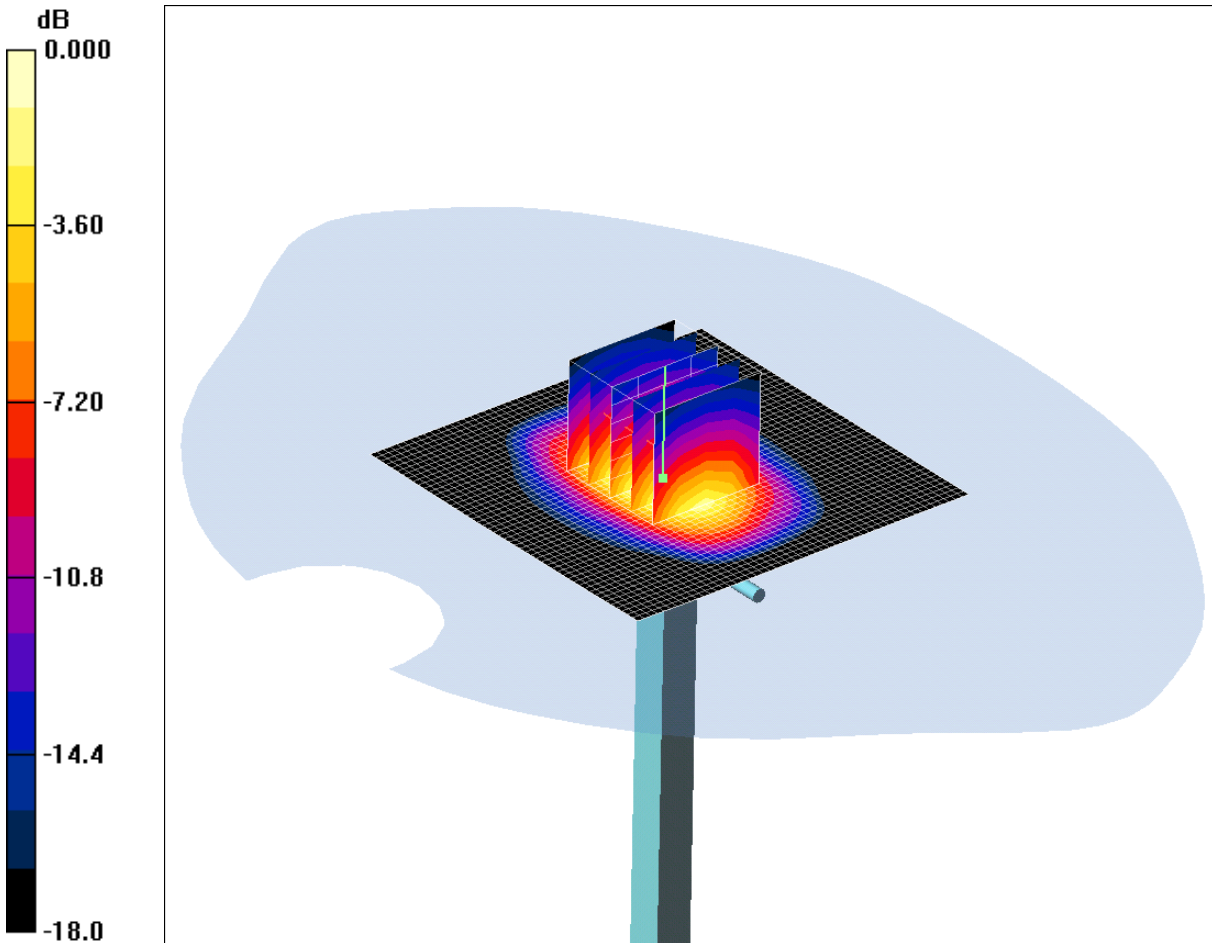
**SAR(1 g) = 10.4 mW/g; SAR(10 g) = 5.34 mW/g**

Maximum value of SAR (measured) = 11.7 mW/g

SCN/81350JD01/042: System Performance Check 1900MHz Body 11 04 11

Date 11/04/2011

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN540



0 dB = 11.5mW/g

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

Medium: 1900 MHz MSL Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.56 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(8.56, 8.56, 8.56); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**d=10mm, Pin=250mW/Area Scan (51x51x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 14.5 mW/g

**d=10mm, Pin=250mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 83.4 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 19.1 W/kg

**SAR(1 g) = 10.3 mW/g; SAR(10 g) = 5.35 mW/g**

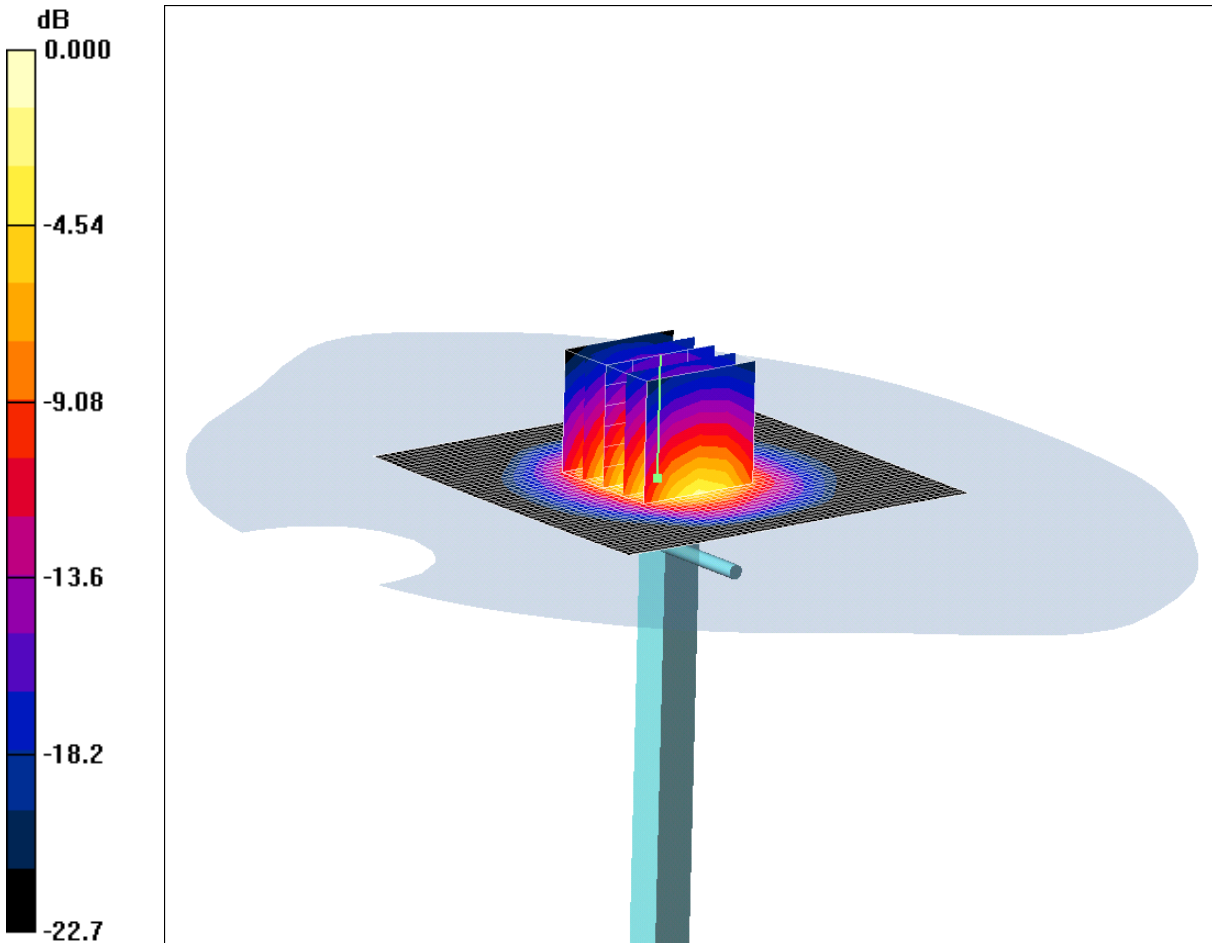
Maximum value of SAR (measured) = 11.5 mW/g



SCN/81350JD01/043: System Performance Check 2450MHz Body 12 04 11

Date 12/04/2011

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:725



0 dB = 14.4mW/g

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

Medium: 2450 MHz MSL Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 52.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508; ConvF(7.97, 7.97, 7.97); Calibrated: 15/02/2011

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

- Electronics: DAE3 Sn450; Calibrated: 09/02/2011

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**d=10mm, Pin=250mW/Area Scan (51x51x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 17.8 mW/g

**d=10mm, Pin=250mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 84.9 V/m; Power Drift = -0.003 dB

Peak SAR (extrapolated) = 26.1 W/kg

**SAR(1 g) = 12.7 mW/g; SAR(10 g) = 5.89 mW/g**

Maximum value of SAR (measured) = 14.4 mW/g

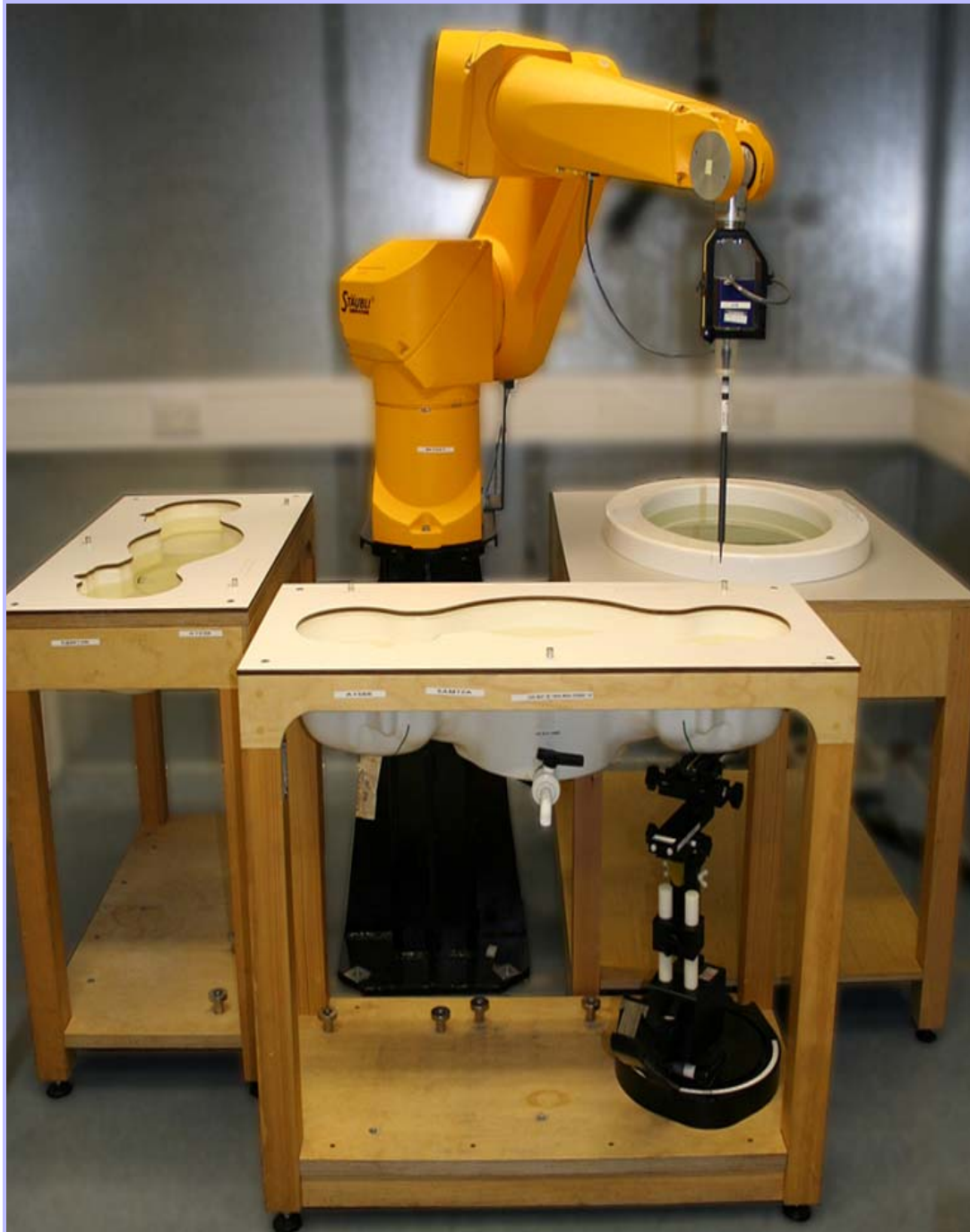
#### Appendix 4. Photographs

This appendix contains the following photographs:

| Photo Reference Number | Title                                                                    |
|------------------------|--------------------------------------------------------------------------|
| PHT/81350JD01/001      | Test configuration for the measurement of Specific Absorption Rate (SAR) |
| PHT/81350JD01/002      | Touch Left                                                               |
| PHT/81350JD01/003      | Touch Left (Mouth View)                                                  |
| PHT/81350JD01/004      | Touch Left (Jaw View)                                                    |
| PHT/81350JD01/005      | Tilt Left                                                                |
| PHT/81350JD01/006      | Touch Right                                                              |
| PHT/81350JD01/007      | Touch Right (Mouth View)                                                 |
| PHT/81350JD01/008      | Touch Right (Jaw View)                                                   |
| PHT/81350JD01/009      | Touch Left & Touch Right Using Flat Section                              |
| PHT/81350JD01/010      | Touch Left & Touch Right Using Flat Section (Mouth View)                 |
| PHT/81350JD01/011      | Touch Left & Touch Right Using Flat Section (Jaw View)                   |
| PHT/81350JD01/012      | Tilt Right                                                               |
| PHT/81350JD01/013      | Front of EUT Closed Facing Phantom                                       |
| PHT/81350JD01/014      | Rear of EUT Closed Facing Phantom                                        |
| PHT/81350JD01/015      | Front of EUT Open Facing Phantom                                         |
| PHT/81350JD01/016      | Rear of EUT Open Facing Phantom                                          |
| PHT/81350JD01/017      | EUT Screen Swivel & Display Facing Phantom                               |
| PHT/81350JD01/018      | Rear of EUT Closed Facing Phantom With PHF                               |
| PHT/81350JD01/019      | Rear of EUT Open Facing Phantom With PHF                                 |
| PHT/81350JD01/020      | Front of EUT Open                                                        |
| PHT/81350JD01/021      | Rear of EUT Open                                                         |
| PHT/81350JD01/022      | Front of EUT Closed                                                      |
| PHT/81350JD01/023      | Rear of EUT Closed                                                       |
| PHT/81350JD01/024      | EUT Screen Swivel Closed and Display View                                |
| PHT/81350JD01/025      | Internal View of EUT                                                     |
| PHT/81350JD01/026      | Battery View of EUT                                                      |
| PHT/81350JD01/027      | PHF                                                                      |
| PHT/81350JD01/028      | PHF Converter                                                            |
| PHT/81350JD01/029      | 900 MHz Head Fluid Level                                                 |
| PHT/81350JD01/030      | 900 MHz Body Fluid Level                                                 |
| PHT/81350JD01/031      | 1800_1900 MHz Head Fluid Level                                           |
| PHT/81350JD01/032      | 1800_1900 MHz Body Fluid Level                                           |
| PHT/81350JD01/033      | 2450 MHz Body Fluid Level                                                |

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PHT/81350JD01/001: Test configuration for the measurement of Specific Absorption Rate (SAR)



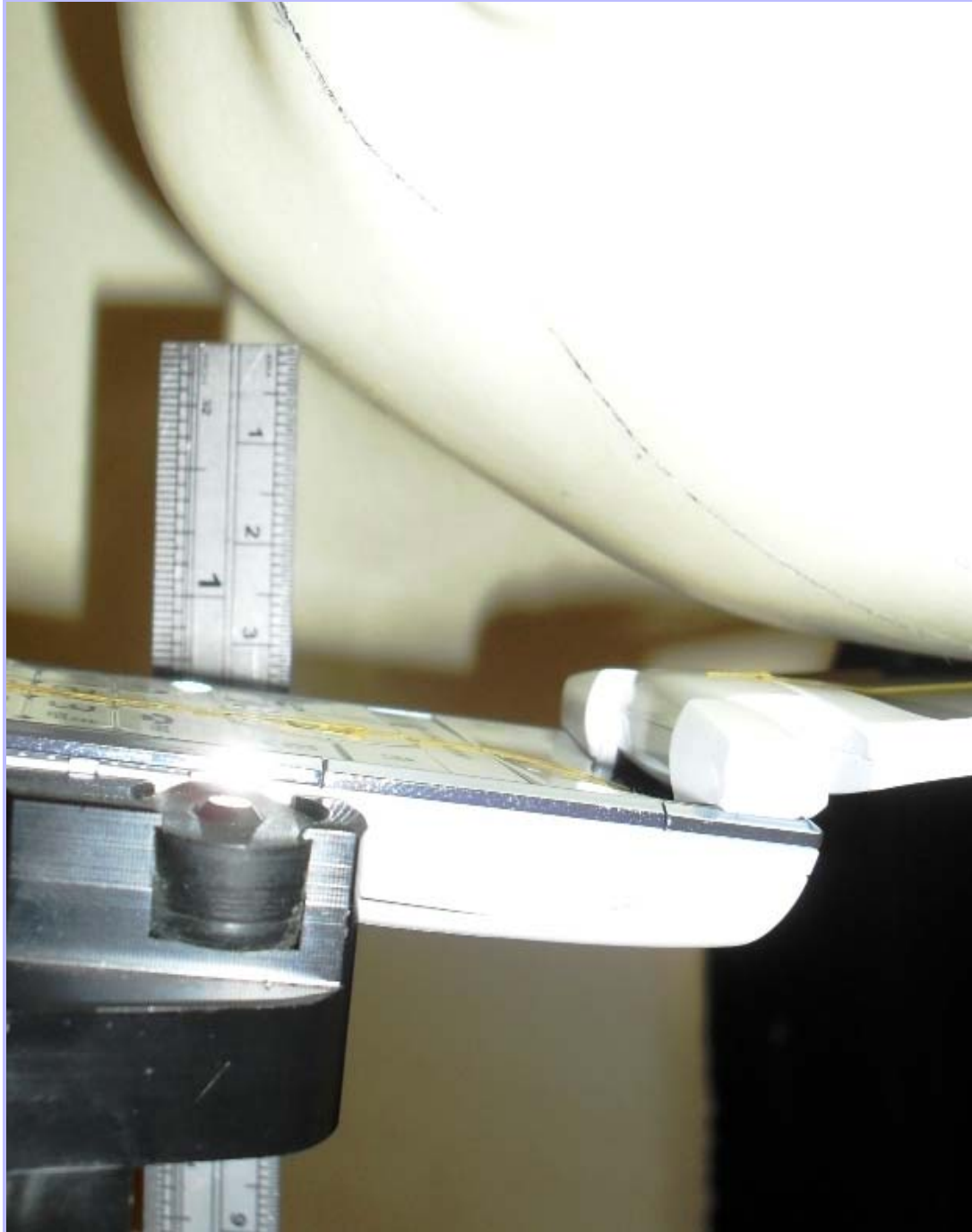
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PHT/81350JD01/002: Touch Left





PHT/81350JD01/003: Touch Left (Mouth View)



PHT/81350JD01/004: Touch Left (Jaw View)



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PHT/81350JD01/005: Tilt Left



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PHT/81350JD01/006: Touch Right

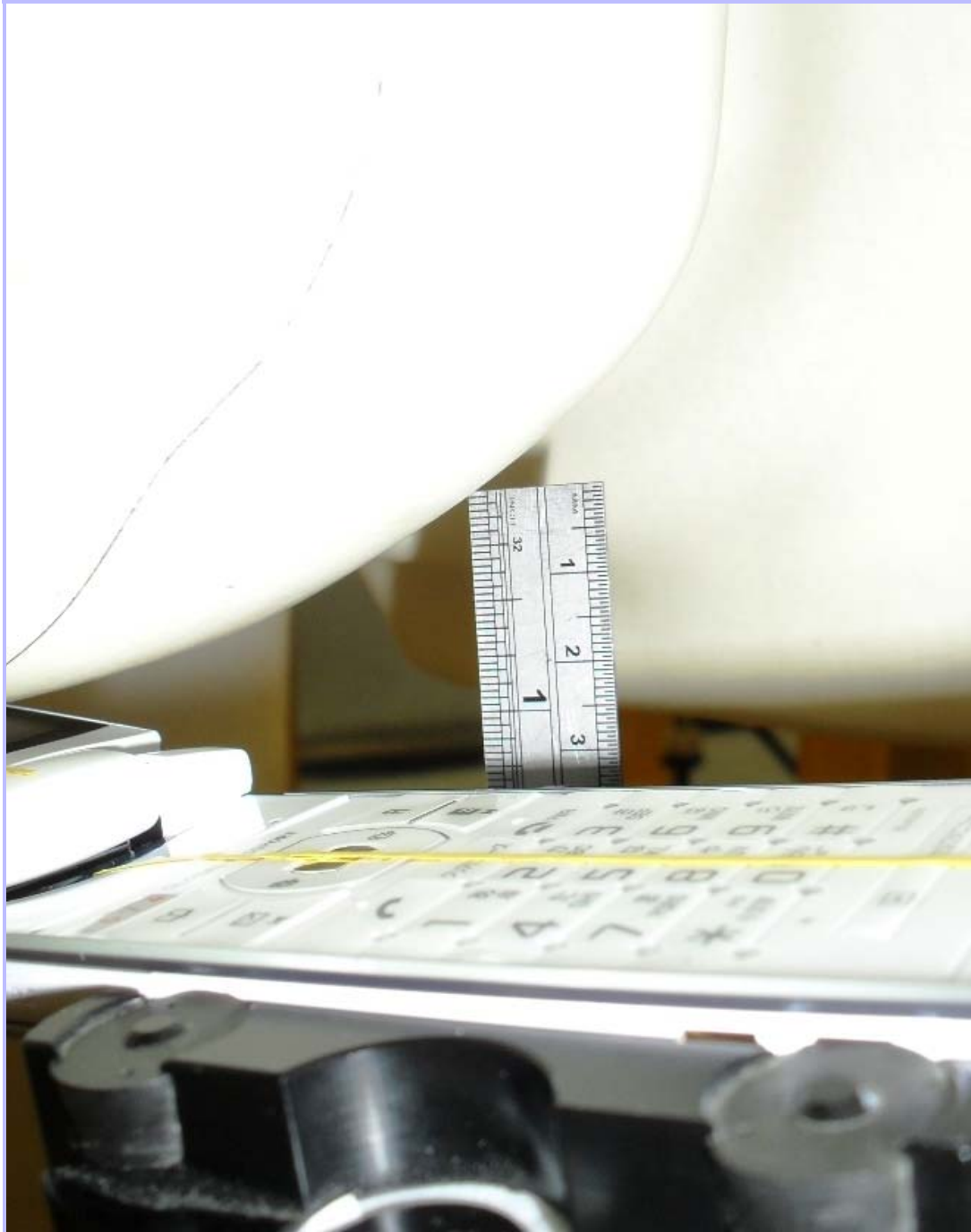




PHT/81350JD01/007: Touch Right (Mouth View)



PHT/81350JD01/008: Touch Right (Jaw View)



PHT/81350JD01/009: Touch Left & Touch Right Using Flat Section



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PHT/81350JD01/010: Touch Left & Touch Right Using Flat Section (Mouth View)





PHT/81350JD01/011: Touch Left & Touch Right Using Flat Section (Jaw View)

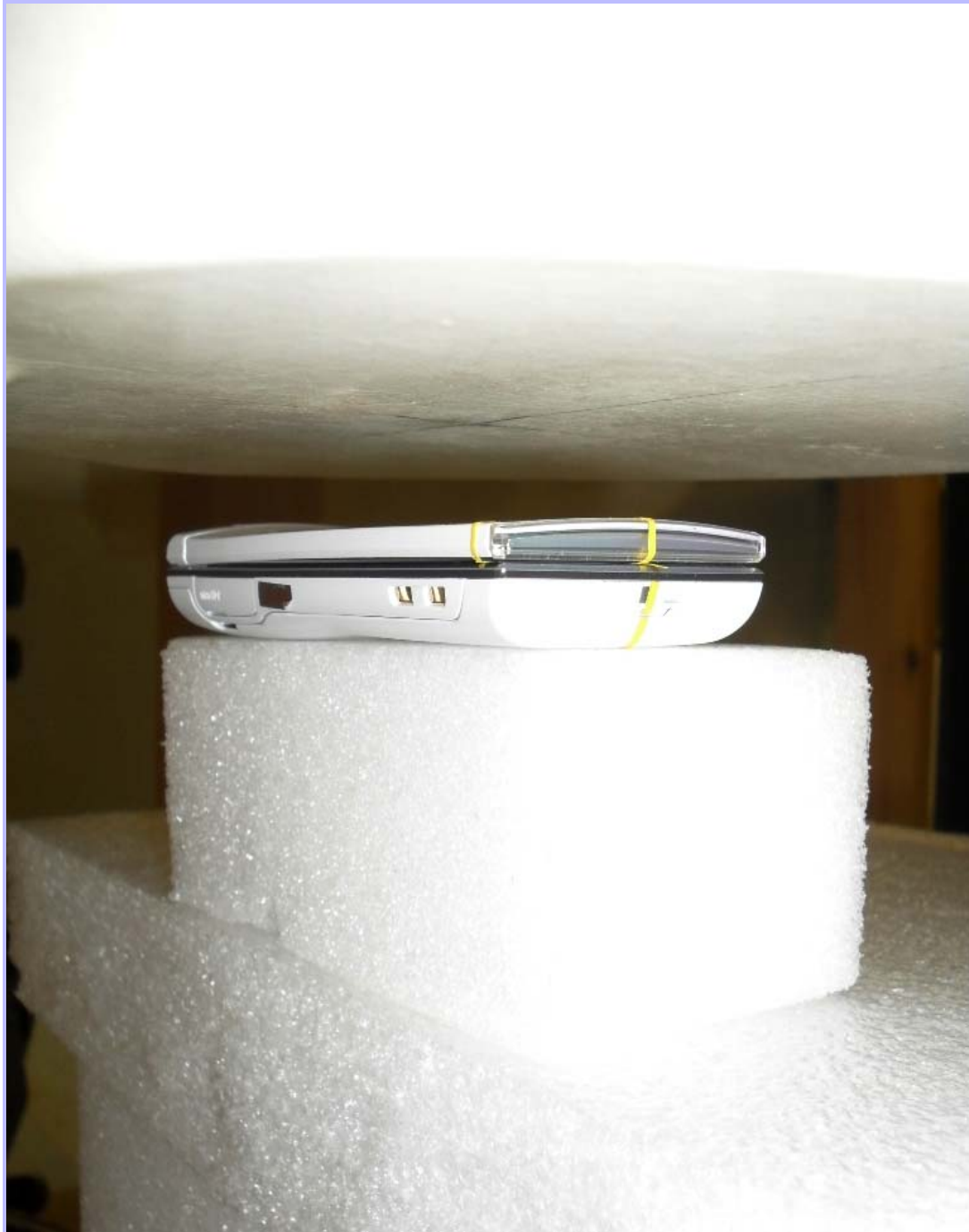


PHT/81350JD01/012: Tilt Right



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PHT/81350JD01/013: Front of EUT Closed Facing Phantom



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PHT/81350JD01/014: Rear of EUT Closed Facing Phantom





PHT/81350JD01/015: Front of EUT Open Facing Phantom



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PHT/81350JD01/016: Rear of EUT Open Facing Phantom



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PHT/81350JD01/017: EUT Screen Swivel & Display Facing Phantom



PHT/81350JD01/018: Rear of EUT Closed Facing Phantom With PHF





PHT/81350JD01/019: Rear of EUT Open Facing Phantom With PHF



PHT/81350JD01/020: Front of EUT Open



PHT/81350JD01/021: Rear of EUT Open



PHT/81350JD01/022: Front of EUT Closed





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PHT/81350JD01/023: Rear of EUT Closed



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PHT/81350JD01/024: EUT Screen Swivel Closed and Display View



PHT/81350JD01/025: Internal View of EUT



PHT/81350JD01/026: Battery View of EUT



PHT/81350JD01/027: PHF



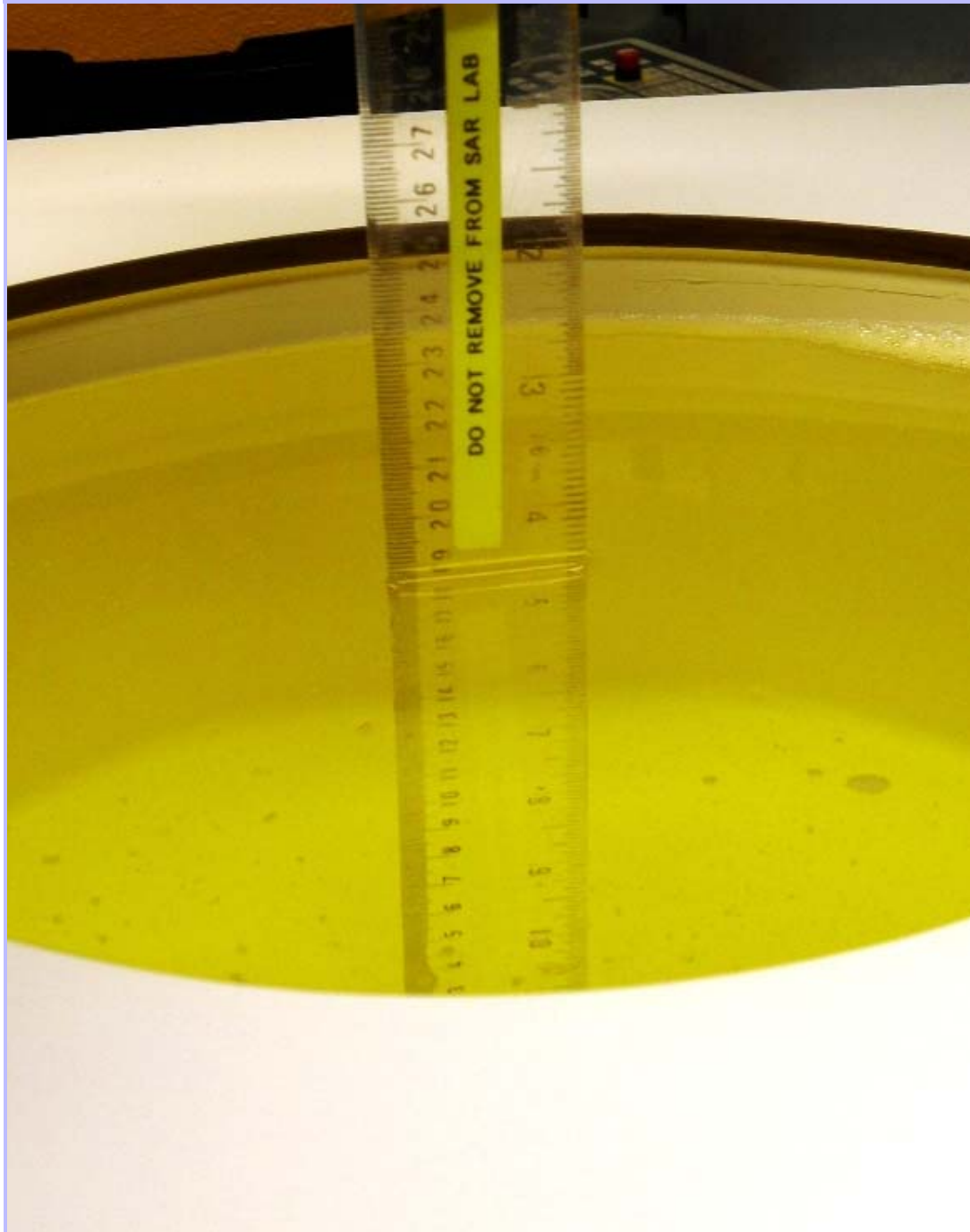


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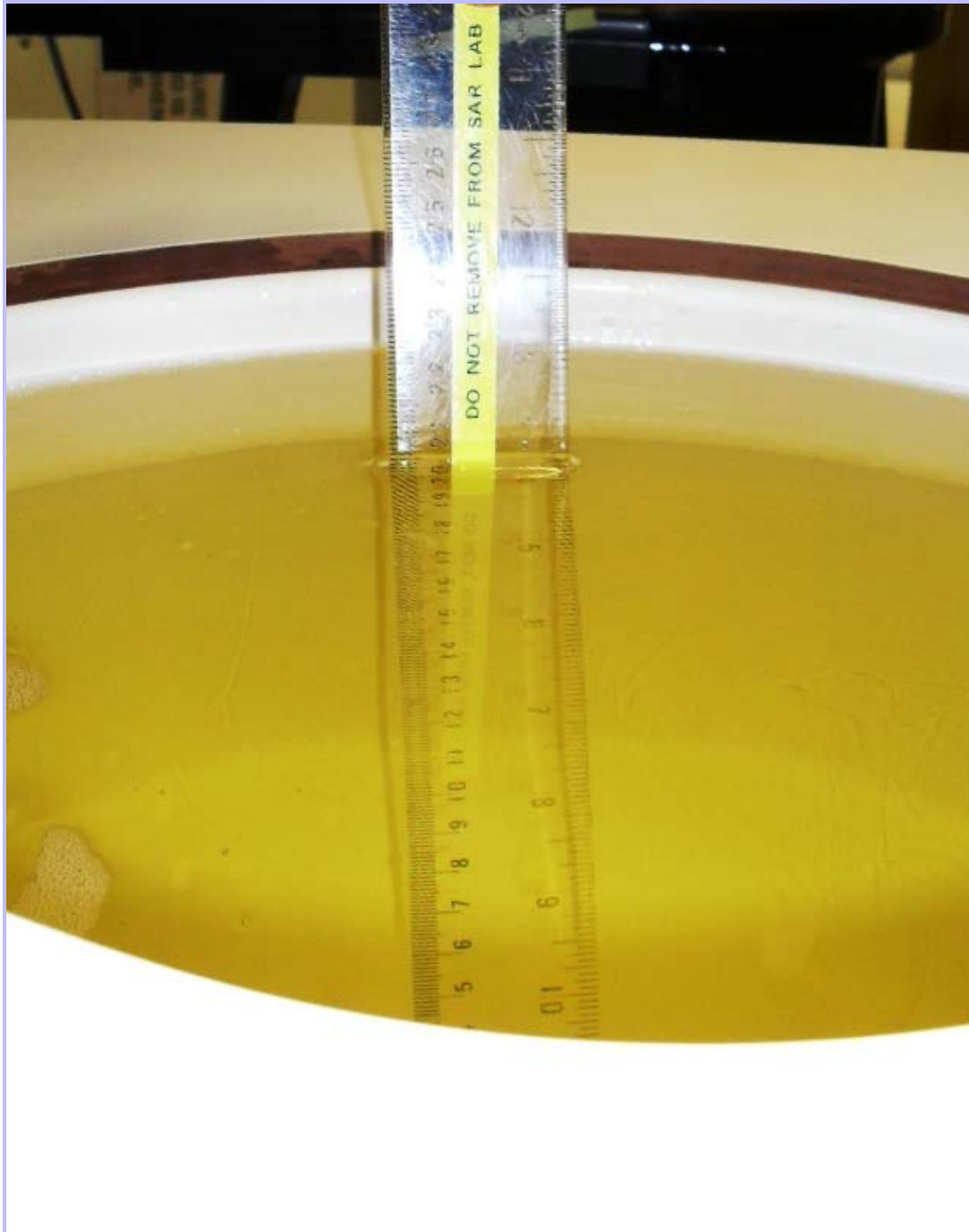
PHT/81350JD01/028: PHF Converter



PHT/81350JD01/029: 900 MHz Head Fluid Level



PHT/81350JD01/030: 900 MHz Body Fluid Level



PHT/81350JD01/031: 1800\_1900 MHz Head Fluid Level

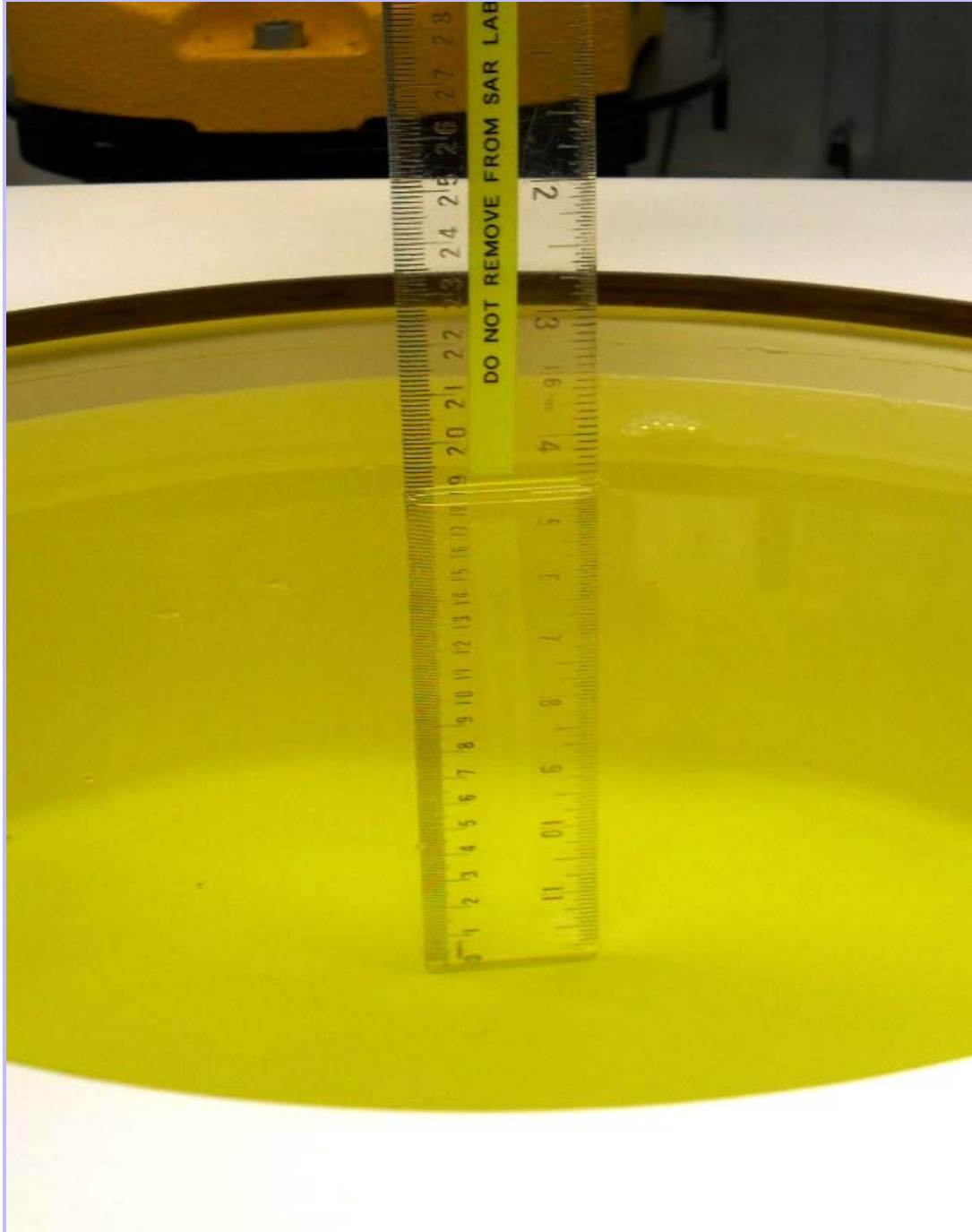


PHT/81350JD01/032: 1800\_1900 MHz Body Fluid Level





PHT/81350JD01/033: 2450 MHz Body Fluid Level



## Appendix 5. Validation of System

Prior to the assessment, the system was verified in the flat region of the phantom. A 900MHz, 1900MHz and a 2450MHz 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 900MHz, 1900MHz and a 245MHz dipole. The applicable verifications were normalised to 1 Watt:

**Date: 14/04/2011**

**Validation Dipole and Serial Number: D900V2; SN: 124**

| Simulant | Frequency (MHz) | Room Temp | Liquid Temp | Parameters   | Target Value | Measured Value | Deviation (%) | Limit (%) |
|----------|-----------------|-----------|-------------|--------------|--------------|----------------|---------------|-----------|
| Head     | 900             | 23.0°C    | 23.0°C      | $\epsilon_r$ | 41.50        | 41.85          | 0.83          | 5.00      |
|          |                 |           |             | $\sigma$     | 0.97         | 0.96           | -1.20         | 5.00      |
|          |                 |           |             | 1g SAR       | 11.00        | 10.52          | -4.36         | 5.00      |
|          |                 |           |             | 10g SAR      | 7.01         | 6.84           | -2.43         | 5.00      |

**Date: 15/04/2011**

**Validation Dipole and Serial Number: D900V2; SN: 124**

| Simulant | Frequency (MHz) | Room Temp | Liquid Temp | Parameters   | Target Value | Measured Value | Deviation (%) | Limit (%) |
|----------|-----------------|-----------|-------------|--------------|--------------|----------------|---------------|-----------|
| Body     | 900             | 23.0°C    | 23.0°C      | $\epsilon_r$ | 55.00        | 54.59          | -0.75         | 5.00      |
|          |                 |           |             | $\sigma$     | 1.05         | 1.03           | -2.16         | 5.00      |
|          |                 |           |             | 1g SAR       | 11.10        | 11.24          | 1.26          | 5.00      |
|          |                 |           |             | 10g SAR      | 7.14         | 7.28           | 1.96          | 5.00      |

**Date: 14/04/2011**

**Validation Dipole and Serial Number: D900V2; SN: 124**

| Simulant | Frequency (MHz) | Room Temp | Liquid Temp | Parameters   | Target Value | Measured Value | Deviation (%) | Limit (%) |
|----------|-----------------|-----------|-------------|--------------|--------------|----------------|---------------|-----------|
| Body     | 900             | 23.0 °C   | 23.0 °C     | $\epsilon_r$ | 55.00        | 54.59          | -0.75         | 5.00      |
|          |                 |           |             | $\sigma$     | 1.05         | 1.03           | -2.16         | 5.00      |
|          |                 |           |             | 1g SAR       | 11.10        | 10.68          | -3.78         | 5.00      |
|          |                 |           |             | 10g SAR      | 7.14         | 6.92           | -3.08         | 5.00      |

### Note:

The version of DASY system used by RFI for SAR measurements is v4.7.

The SAR probe for the DASY v4.4 and higher has a validity of +/- 100 MHz from the spot frequency at which the system is calibrated.

The SAR probe was calibrated at 750 MHz (covering 650 MHz to 850 MHz) and 900 MHz (covering 800 MHz to 1000 MHz) for the Head tissue with both the 750 MHz and 900 MHz calibration parameters imported on the same data file of the DASY4 system.

For GSM850 (head SAR test) the DASY4 v4.7 system uses the conversion factor for 750 MHz calibration as this covers the frequency range of 650 MHz to 850 MHz. The SAR system uses the 900 MHz conversion factor which is valid from 800 MHz to 1000 MHz for the system validation performed at 900 MHz.

The 900 MHz validation is applicable for the 850 band as this is within 50 MHz of the of the centre frequency.

**Date 12/04/2011****Validation Dipole and Serial Number: D1900V2; SN: 540**

| Simulant | Frequency (MHz) | Room Temp | Liquid Temp | Parameters   | Target Value | Measured Value | Deviation (%) | Limit (%) |
|----------|-----------------|-----------|-------------|--------------|--------------|----------------|---------------|-----------|
| Head     | 1900            | 23.0 °C   | 22.9 °C     | $\epsilon_r$ | 40.00        | 38.42          | -3.96         | 5.00      |
|          |                 |           |             | $\sigma$     | 1.40         | 1.42           | 1.08          | 5.00      |
|          |                 |           |             | 1g SAR       | 40.30        | 41.60          | 3.23          | 5.00      |
|          |                 |           |             | 10g SAR      | 21.00        | 21.36          | 1.71          | 5.00      |

**Date: 11/04/2011****Validation Dipole and Serial Number: D1900V2; SN: 540**

| Simulant | Frequency (MHz) | Room Temp | Liquid Temp | Parameters   | Target Value | Measured Value | Deviation (%) | Limit (%) |
|----------|-----------------|-----------|-------------|--------------|--------------|----------------|---------------|-----------|
| Body     | 1900            | 23.0 °C   | 23.9 °C     | $\epsilon_r$ | 53.30        | 51.74          | -2.92         | 5.00      |
|          |                 |           |             | $\sigma$     | 1.52         | 1.56           | 2.68          | 5.00      |
|          |                 |           |             | 1g SAR       | 40.70        | 41.20          | 1.23          | 5.00      |
|          |                 |           |             | 10g SAR      | 21.60        | 21.40          | -0.93         | 5.00      |

**Date: 12/04/2011****Validation Dipole and Serial Number: D2450V2; SN: 725**

| Simulant | Frequency (MHz) | Room Temp | Liquid Temp | Parameters   | Target Value | Measured Value | Deviation (%) | Limit (%) |
|----------|-----------------|-----------|-------------|--------------|--------------|----------------|---------------|-----------|
| Body     | 2450            | 23.0 °C   | 22.5 °C     | $\epsilon_r$ | 52.70        | 52.25          | -0.86         | 5.00      |
|          |                 |           |             | $\sigma$     | 1.95         | 1.88           | -3.75         | 5.00      |
|          |                 |           |             | 1g SAR       | 51.90        | 50.80          | -2.12         | 5.00      |
|          |                 |           |             | 10g SAR      | 24.10        | 23.56          | -2.24         | 5.00      |

## Appendix 6. Simulated Tissues

The body mixture consists of de-ionised water, Polysorbate 20 and salt. 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               |
|---------------------------|-------------------------|
|                           | 835/850/900 MHz<br>Head |
| De-Ionized Water          | 52.87                   |
| Polysorbate 20 (Tween 20) | 46.10                   |
| Salt                      | 1.03                    |

| Ingredient                | Frequency               |
|---------------------------|-------------------------|
|                           | 835/850/900 MHz<br>Body |
| De-Ionized Water          | 71.30                   |
| Polysorbate 20 (Tween 20) | 28.00                   |
| Salt                      | 0.70                    |

| Ingredient                | Frequency             |
|---------------------------|-----------------------|
|                           | 1800/1900 MHz<br>Head |
| De-Ionized Water          | 55.40                 |
| Polysorbate 20 (Tween 20) | 44.22                 |
| Salt                      | 0.38                  |

| Ingredient                | Frequency             |
|---------------------------|-----------------------|
|                           | 1800/1900 MHz<br>Body |
| De-Ionized Water          | 71.50                 |
| Polysorbate 20 (Tween 20) | 28.00                 |
| Salt                      | 0.50                  |

| Ingredient                | Frequency        |
|---------------------------|------------------|
|                           | 2450 MHz<br>Body |
| De-Ionized Water          | 71.70            |
| Polysorbate 20 (Tween 20) | 28.00            |
| Salt                      | 0.30             |

## 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 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.



#### A.7.2. DASY4 SAR System Specifications

|                                                 |                                                                                                                                                                          |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Robot System</b>                             |                                                                                                                                                                          |
| <b>Positioner:</b>                              | Stäubli Unimation Corp. Robot Model: RX90L                                                                                                                               |
| <b>Repeatability:</b>                           | 0.025 mm                                                                                                                                                                 |
| <b>No. of Axis:</b>                             | 6                                                                                                                                                                        |
| <b>Serial Number:</b>                           | F00/SD89A1/A/01                                                                                                                                                          |
| <b>Reach:</b>                                   | 1185 mm                                                                                                                                                                  |
| <b>Payload:</b>                                 | 3.5 kg                                                                                                                                                                   |
| <b>Control Unit:</b>                            | CS7                                                                                                                                                                      |
| <b>Programming Language:</b>                    | V+                                                                                                                                                                       |
| <b>Data Acquisition Electronic (DAE) System</b> |                                                                                                                                                                          |
| <b>Serial Number:</b>                           | DAE3 SN:450                                                                                                                                                              |
| <b>PC Controller</b>                            |                                                                                                                                                                          |
| <b>PC:</b>                                      | Dell Precision 340                                                                                                                                                       |
| <b>Operating System:</b>                        | Windows 2000                                                                                                                                                             |
| <b>Data Card:</b>                               | DASY4 Measurement Server                                                                                                                                                 |
| <b>Serial Number:</b>                           | 1080                                                                                                                                                                     |
| <b>Data Converter</b>                           |                                                                                                                                                                          |
| <b>Features:</b>                                | Signal Amplifier, multiplexer, A/D converted and control logic.                                                                                                          |
| <b>Software:</b>                                | DASY4 Software                                                                                                                                                           |
| <b>Connecting Lines:</b>                        | Optical downlink for data and status info.<br>Optical uplink for commands and clock.                                                                                     |
| <b>PC Interface Card</b>                        |                                                                                                                                                                          |
| <b>Function:</b>                                | 24 bit (64 MHz) DSP for real time processing Link to DAE3 16 bit A/D converter for surface detection system serial link to robot direct emergency stop output for robot. |

| DASY4 SAR System Specifications (Continued) |                                |
|---------------------------------------------|--------------------------------|
| E-Field Probe                               |                                |
| Model:                                      | EX3DV3                         |
| Serial No:                                  | 3508                           |
| Construction:                               | Triangular core                |
| Frequency:                                  | 10 MHz to >6 GHz               |
| Linearity:                                  | $\pm 0.2$ 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 $\pm$ 0.1 mm               |