



## ***Appendix B. Plots of SAR Measurement***

The plots are shown as follows.

**#01 802.11b\_Face\_0 cm\_Ch11\_1M**

**DUT: 181603**

Communication System: WIFI; Frequency: 2462 MHz; Duty Cycle: 1:1.24

Medium: MSL\_2450\_111101 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2.027$  mho/m;  $\epsilon_r =$

53.408;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 21.4 °C

**DASY5 Configuration:**

- Probe: ET3DV6 - SN1787; ConvF(3.96, 3.96, 3.96); Calibrated: 2011-5-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2010-11-18
- Phantom: SAM3; Type: SAM; Serial: TP-1079
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Ch11/Area Scan (71x161x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.190 mW/g

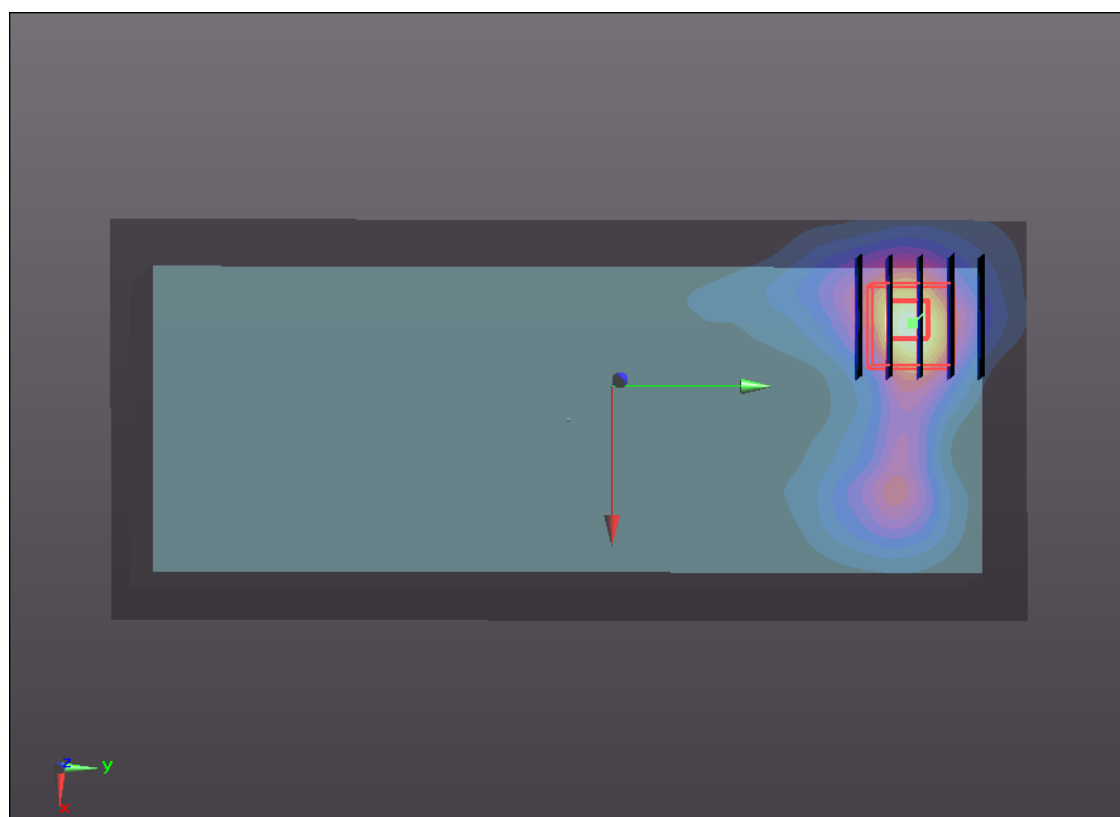
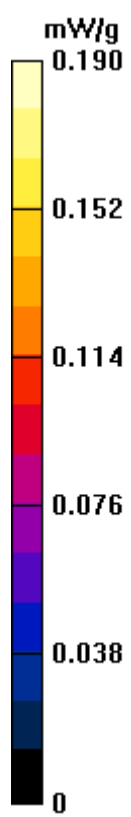
**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.249 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.522 W/kg

**SAR(1 g) = 0.203 mW/g; SAR(10 g) = 0.092 mW/g**

Maximum value of SAR (measured) = 0.224 mW/g



**#01 802.11b\_Face\_0 cm\_Ch11\_1M\_2D**

**DUT: 181603**

Communication System: WIFI; Frequency: 2462 MHz; Duty Cycle: 1:1.24

Medium: MSL\_2450\_111101 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2.027$  mho/m;  $\epsilon_r =$

53.408;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 21.4 °C

**DASY5 Configuration:**

- Probe: ET3DV6 - SN1787; ConvF(3.96, 3.96, 3.96); Calibrated: 2011-5-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2010-11-18
- Phantom: SAM3; Type: SAM; Serial: TP-1079
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Ch11/Area Scan (71x161x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.190 mW/g

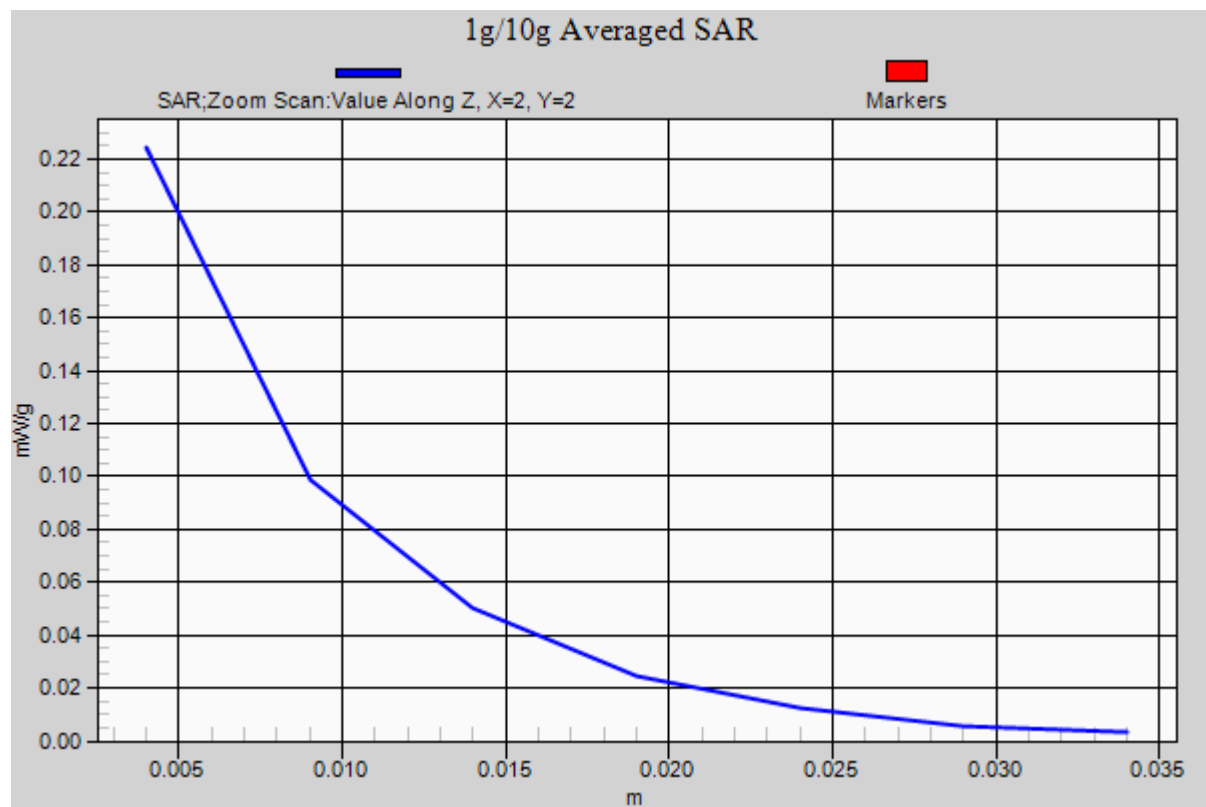
**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.249 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.522 W/kg

**SAR(1 g) = 0.203 mW/g; SAR(10 g) = 0.092 mW/g**

Maximum value of SAR (measured) = 0.224 mW/g



**#02 802.11b\_Bottom\_0 cm\_Ch11\_1M**

**DUT: 181603**

Communication System: WIFI; Frequency: 2462 MHz; Duty Cycle: 1:1.24

Medium: MSL\_2450\_111101 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2.027$  mho/m;  $\epsilon_r =$

53.408;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 21.4 °C

**DASY5 Configuration:**

- Probe: ET3DV6 - SN1787; ConvF(3.96, 3.96, 3.96); Calibrated: 2011-5-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2010-11-18
- Phantom: SAM3; Type: SAM; Serial: TP-1079
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Ch11/Area Scan (71x161x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.014 mW/g

**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.230 V/m; Power Drift = 0.0081 dB

Peak SAR (extrapolated) = 0.032 W/kg

**SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.00484 mW/g**

Maximum value of SAR (measured) = 0.017 mW/g

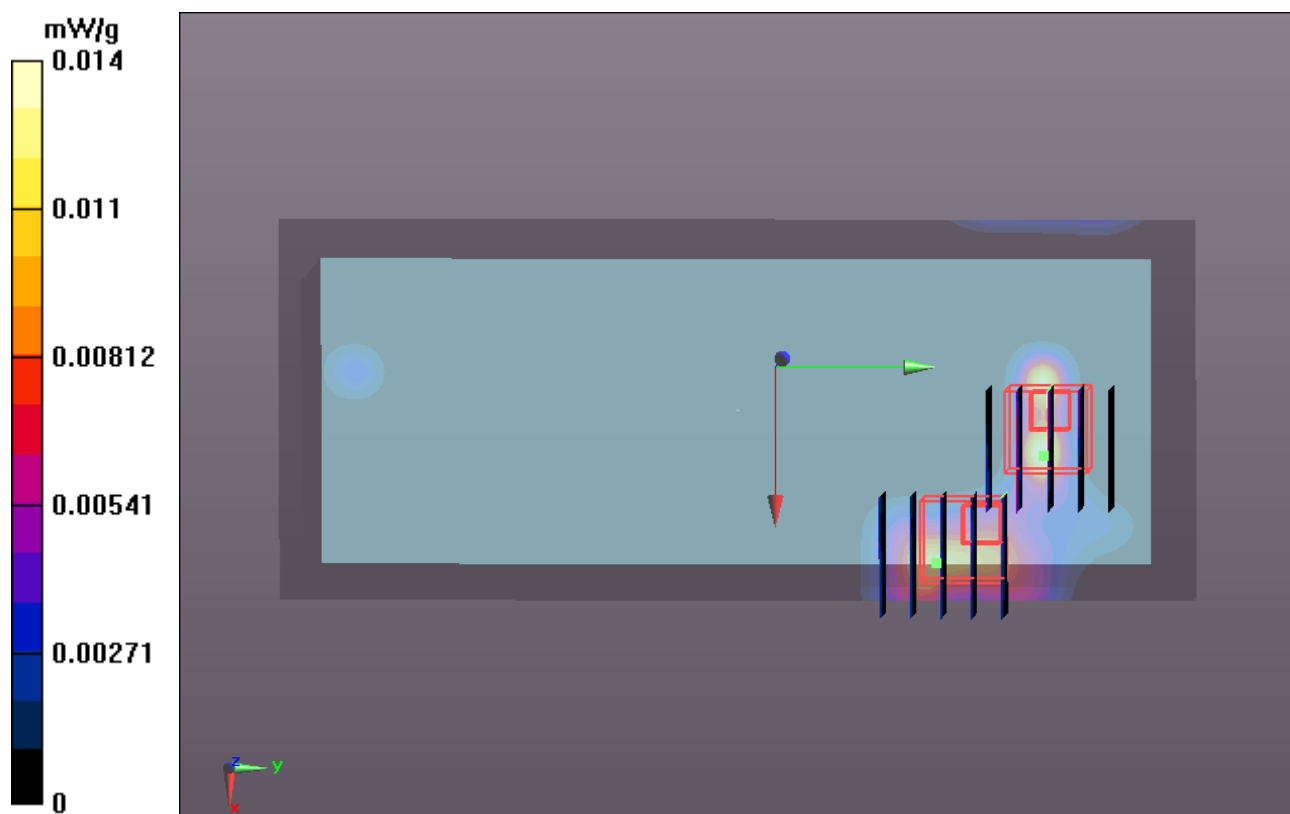
**Ch11/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.230 V/m; Power Drift = 0.0081 dB

Peak SAR (extrapolated) = 0.019 W/kg

**SAR(1 g) = 0.00485 mW/g; SAR(10 g) = 0.00261 mW/g**

Maximum value of SAR (measured) = 0.00666 mW/g



**#03 802.11b\_Left Side\_0cm\_Ch11**

**DUT: 181603**

Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: MSL\_2450\_111215 Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.98 \text{ mho/m}$ ;  $\epsilon_r = 51.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 22.5 ; Liquid Temperature : 21.5

DASY5 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(3.96, 3.96, 3.96); Calibrated: 2011/5/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2011/6/17
- Phantom: ELI 4.0\_Front; Type: QD 0VA 002 AA; Serial: TP-1131
- ; SEMCAD X Version 13.4 Build 125

**Ch11/Area Scan (61x121x1):** Measurement grid: dx=20mm, dy=20mm

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

**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

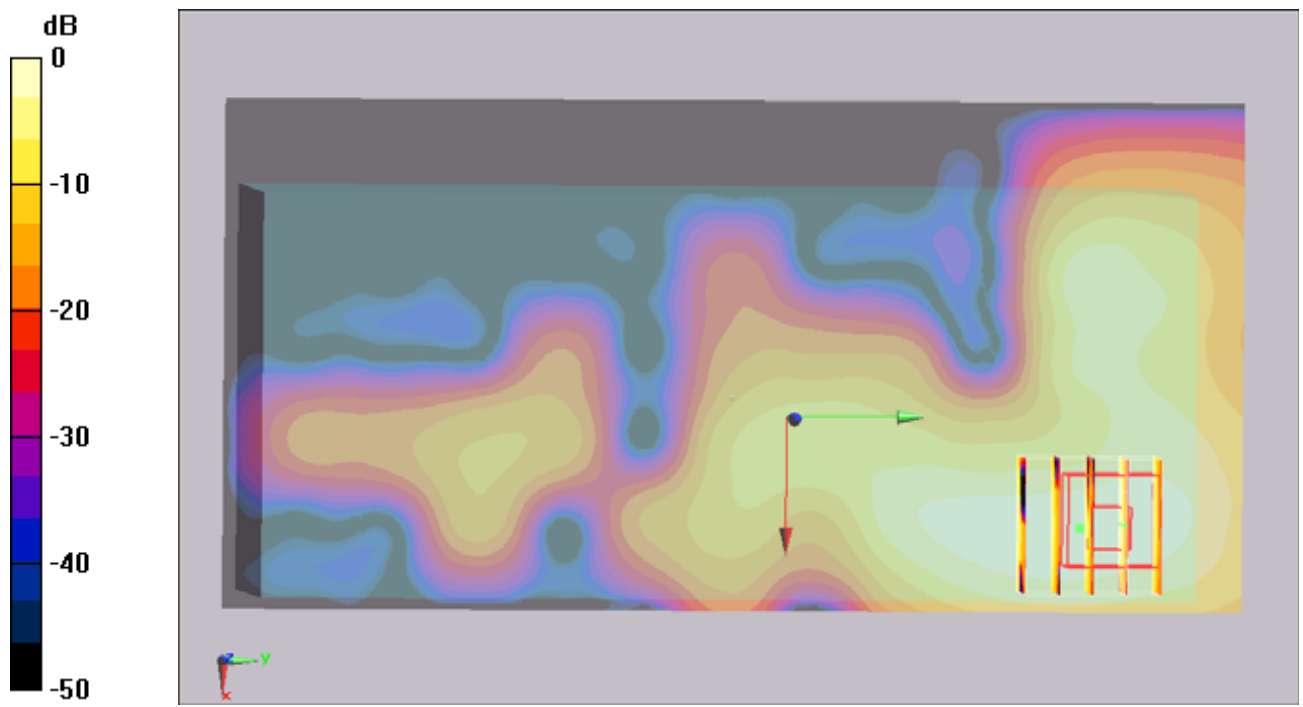
Reference Value = 1.55 V/m; Power Drift = -0.094 dB

Peak SAR (extrapolated) = 0.328 W/kg

**SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.047 mW/g**

Maximum value of SAR (measured) = 0.107 mW/g





0 dB = 0.107mW/g

**#04 802.11b\_Right Side\_0cm\_Ch11**

**DUT: 181603**

Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: MSL\_2450\_111215 Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.98 \text{ mho/m}$ ;  $\epsilon_r = 51.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 22.5 ; Liquid Temperature : 21.5

DASY5 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(3.96, 3.96, 3.96); Calibrated: 2011/5/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2011/6/17
- Phantom: ELI 4.0\_Front; Type: QD 0VA 002 AA; Serial: TP-1131
- ; SEMCAD X Version 13.4 Build 125

**Ch11/Area Scan (61x121x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.064 mW/g

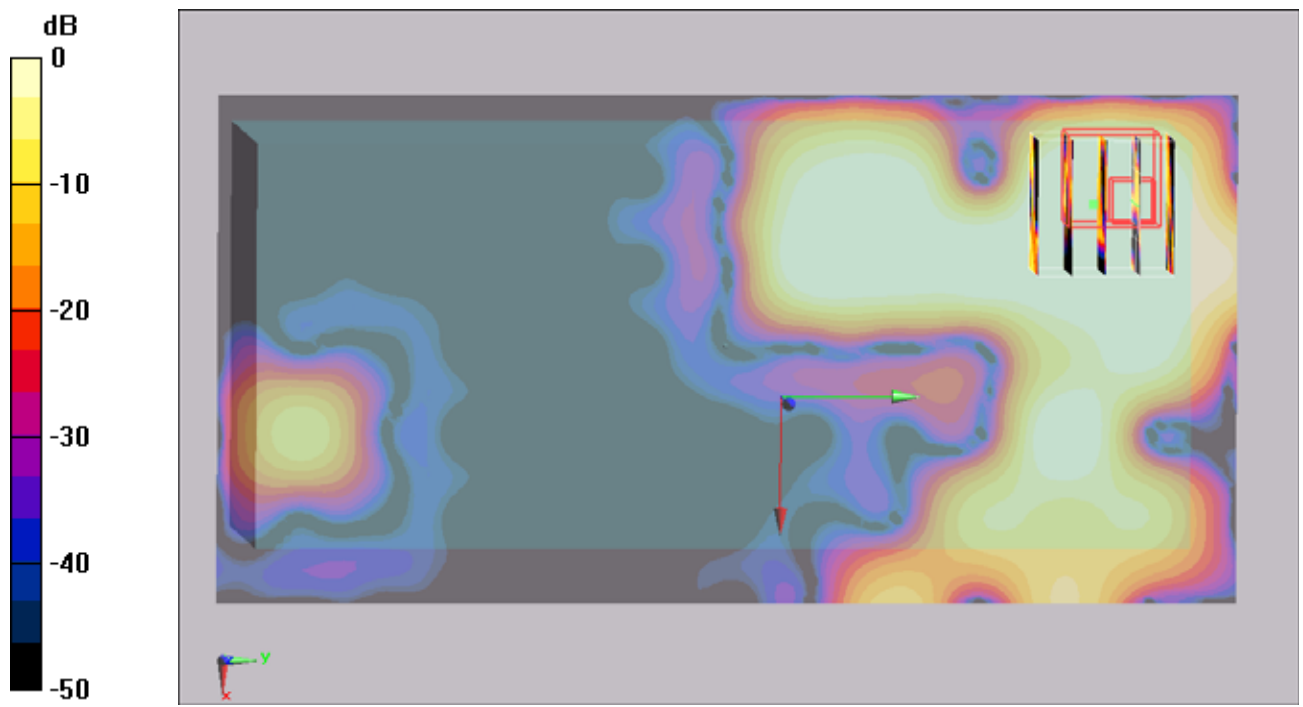
**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 0.222 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.012 W/kg

**SAR(1 g) = 0.00194 mW/g; SAR(10 g) = 0.000399 mW/g**

Maximum value of SAR (measured) = 0.007 mW/g



0 dB = 0.007mW/g

**#01 RFID\_Front\_0cm\_Ch50\_Earphone****DUT: 1O2535-01**

Communication System: RFID; Frequency: 927.25 MHz; Duty Cycle: 1:1

Medium: MSL\_900\_111217 Medium parameters used :  $f = 927.25$  MHz;  $\sigma = 1.09$  mho/m;  $\epsilon_r = 53.8$ ;

$\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C; Liquid Temperature : 21.3 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(8.91, 8.91, 8.91); Calibrated: 2011/6/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2011/11/22
- Phantom: ELI 4.0\_Front; Type: QDOVA001BB; Serial: 1026
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch50/Area Scan (81x161x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.007 mW/g

**Ch50/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.000 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 0.005 W/kg

**SAR(1 g) = 0.00385 mW/g; SAR(10 g) = 0.00228 mW/g**

Maximum value of SAR (measured) = 0.005 mW/g

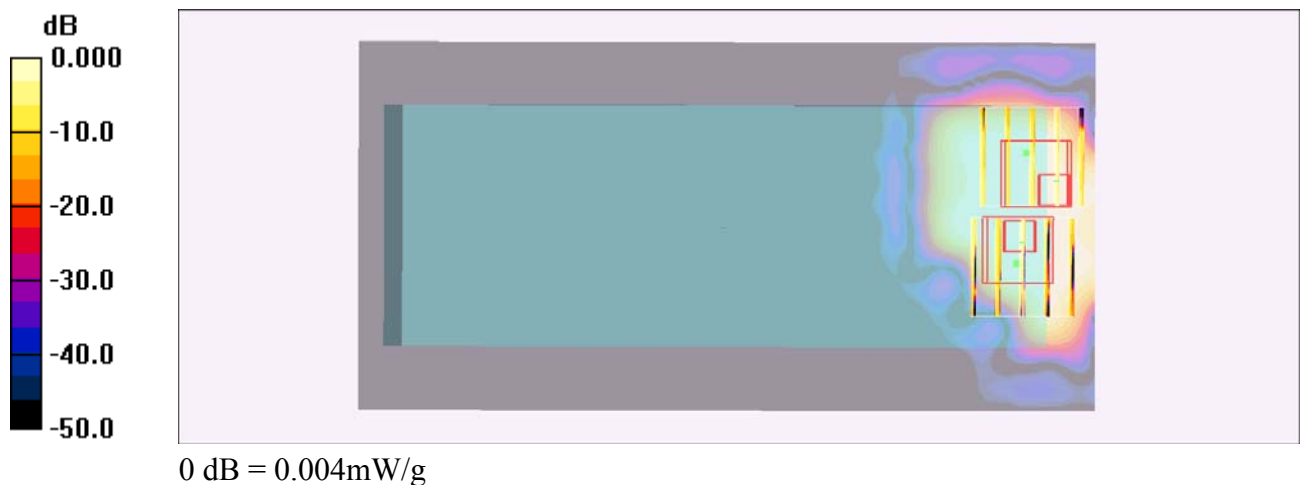
**Ch50/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.000 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 0.005 W/kg

**SAR(1 g) = 0.00307 mW/g; SAR(10 g) = 0.00139 mW/g**

Maximum value of SAR (measured) = 0.004 mW/g



**#02 RFID\_Back\_0cm\_Ch50\_Earphone****DUT: 1O2535-01**

Communication System: RFID; Frequency: 927.25 MHz; Duty Cycle: 1:1

Medium: MSL\_900\_111217 Medium parameters used :  $f = 927.25$  MHz;  $\sigma = 1.09$  mho/m;  $\epsilon_r = 53.8$ ;

$\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C; Liquid Temperature : 21.3 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(8.91, 8.91, 8.91); Calibrated: 2011/6/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2011/11/22
- Phantom: ELI 4.0\_Front; Type: QDOVA001BB; Serial: 1026
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch50/Area Scan (81x161x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.105 mW/g

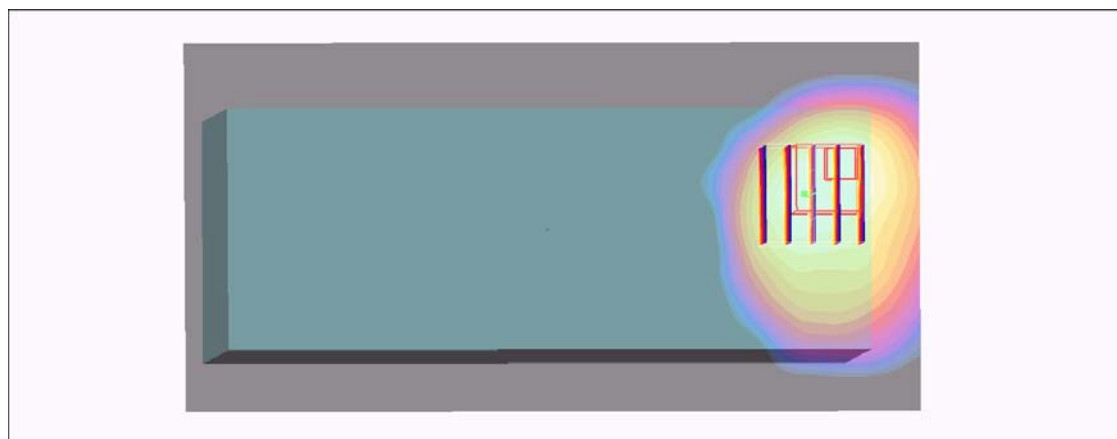
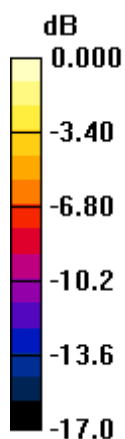
**Ch50/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.000 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 0.192 W/kg

**SAR(1 g) = 0.086 mW/g; SAR(10 g) = 0.050 mW/g**

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



0 dB = 0.095mW/g

**#02 RFID\_Back\_0cm\_Ch50\_Earphone\_2D****DUT: 1O2535-01**

Communication System: RFID; Frequency: 927.25 MHz; Duty Cycle: 1:1

Medium: MSL\_900\_111217 Medium parameters used :  $f = 927.25$  MHz;  $\sigma = 1.09$  mho/m;  $\epsilon_r = 53.8$ ;

$\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 21.3 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(8.91, 8.91, 8.91); Calibrated: 2011/6/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2011/11/22
- Phantom: ELI 4.0\_Front; Type: QDOVA001BB; Serial: 1026
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch50/Area Scan (81x161x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.105 mW/g

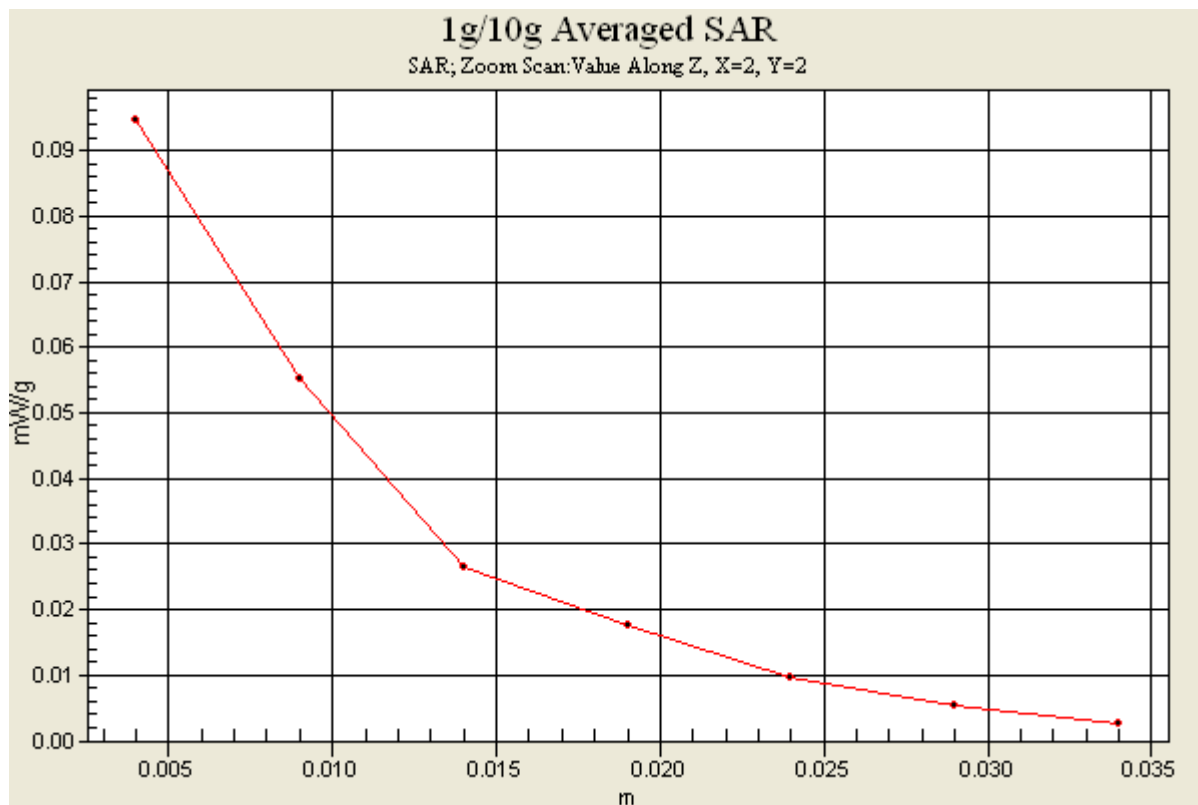
**Ch50/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.000 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 0.192 W/kg

**SAR(1 g) = 0.086 mW/g; SAR(10 g) = 0.050 mW/g**

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



**#03 RFID\_Left Side\_0cm\_Ch50\_Handle****DUT: 1O2535-01**

Communication System: RFID; Frequency: 927.25 MHz; Duty Cycle: 1:1

Medium: MSL\_900\_111217 Medium parameters used :  $f = 927.25$  MHz;  $\sigma = 1.09$  mho/m;  $\epsilon_r = 53.8$ ;

$\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 21.3 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(8.91, 8.91, 8.91); Calibrated: 2011/6/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2011/11/22
- Phantom: ELI 4.0\_Front; Type: QDOVA001BB; Serial: 1026
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch50/Area Scan (111x161x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.023 mW/g

**Ch50/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.57 V/m; Power Drift = -0.072 dB

Peak SAR (extrapolated) = 0.041 W/kg

**SAR(1 g) = 0.021 mW/g; SAR(10 g) = 0.012 mW/g**

Maximum value of SAR (measured) = 0.024 mW/g

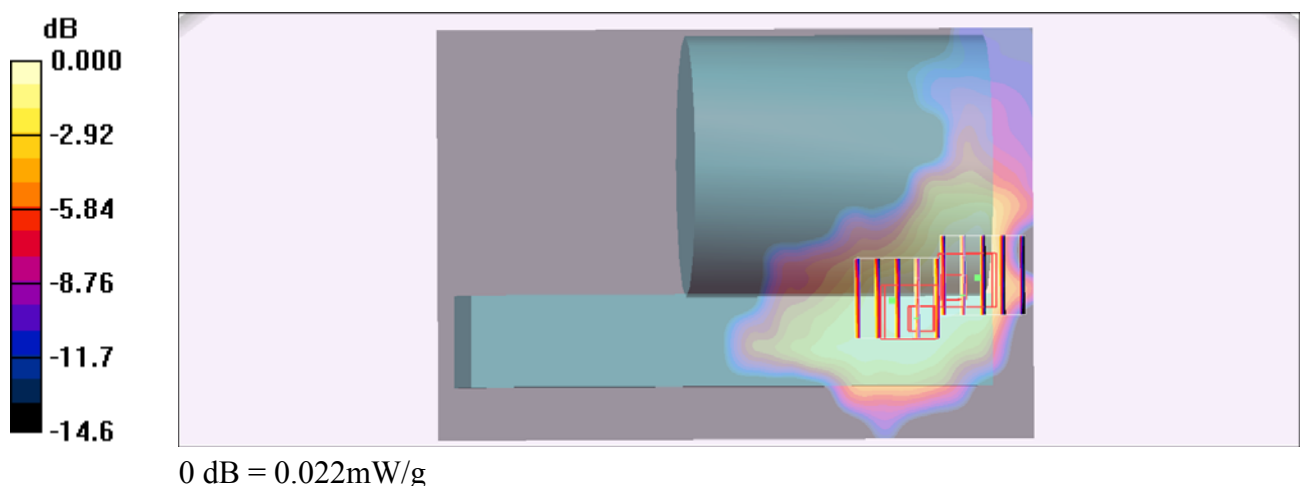
**Ch50/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.57 V/m; Power Drift = -0.072 dB

Peak SAR (extrapolated) = 0.030 W/kg

**SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.012 mW/g**

Maximum value of SAR (measured) = 0.022 mW/g



**#04 RFID\_Right Side\_0cm\_Ch50\_Earphone\_Handle****DUT: 1O2535-01**

Communication System: RFID; Frequency: 927.25 MHz; Duty Cycle: 1:1

Medium: MSL\_900\_111217 Medium parameters used :  $f = 927.25$  MHz;  $\sigma = 1.09$  mho/m;  $\epsilon_r = 53.8$ ;

$\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C; Liquid Temperature : 21.3 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(8.91, 8.91, 8.91); Calibrated: 2011/6/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2011/11/22
- Phantom: ELI 4.0\_Front; Type: QDOVA001BB; Serial: 1026
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch50/Area Scan (111x161x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.031 mW/g

**Ch50/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.995 V/m; Power Drift = 0.081 dB

Peak SAR (extrapolated) = 0.058 W/kg

**SAR(1 g) = 0.029 mW/g; SAR(10 g) = 0.019 mW/g**

Maximum value of SAR (measured) = 0.032 mW/g

**Ch50/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.995 V/m; Power Drift = 0.081 dB

Peak SAR (extrapolated) = 0.040 W/kg

**SAR(1 g) = 0.027 mW/g; SAR(10 g) = 0.015 mW/g**

Maximum value of SAR (measured) = 0.031 mW/g

