

WCDMA 1900 Test Position 1_High

Date/Time: 2/09/2012 4:19:27 PM

Electronics: DAE4 Sn786

Medium: Body 1900MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.559$ mho/m; $\epsilon_r = 51.21$; $\rho = 1000$ kg/m³

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

Communication System: WCDMA Frequency: 1908 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(4.87, 4.87, 4.87)

W1900/Test position 1_Channel High_unfold 2/Area Scan (181x231x1):

Measurement grid: dx=10mm, dy=10mm

Reference Value = 2.344 V/m; Power Drift = 0.09 dB

Maximum value of SAR (interpolated) = 0.070 mW/g

W1900/Test position 1_Channel High_unfold 2/Zoom Scan (7x7x7)/Cube 0:

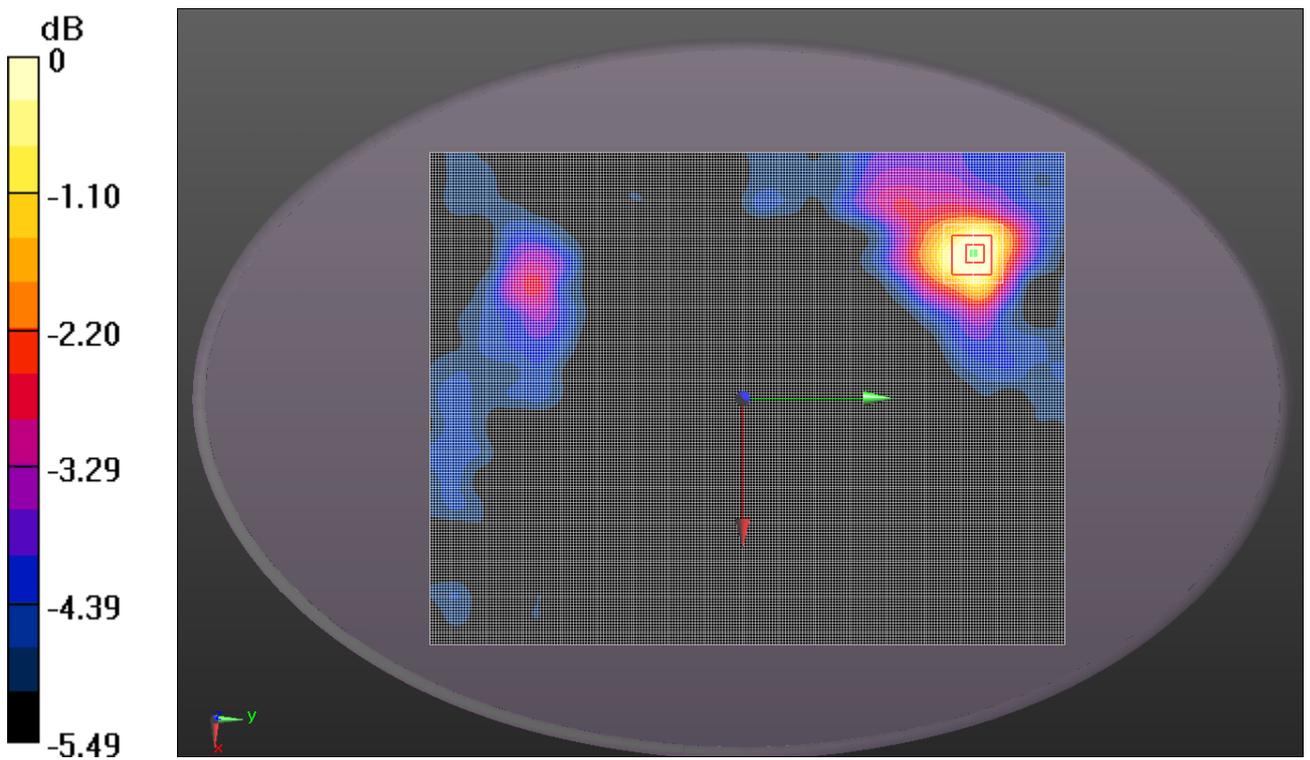
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.344 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.0950

SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.038 mW/g

Maximum value of SAR (measured) = 0.063 mW/g



0 dB = 0.060mW/g = -24.44 dB mW/g

Fig. 15 WCDMA 1900 CH9538 Test Position 1

WCDMA 1900 Test Position 2_High

Date/Time: 2/9/2012 5:23:46 PM

Electronics: DAE4 Sn786

Medium: Body 1900MHz

Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.559 \text{ mho/m}$; $\epsilon_r = 51.21$; $\rho = 1000 \text{ kg/m}^3$

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

Communication System: WCDMA Frequency: 1908 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(4.87, 4.87, 4.87)

Test position 2_Channel High_fold/Area Scan (181x231x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Reference Value = 2.895 V/m; Power Drift = 0.18 dB

Maximum value of SAR (interpolated) = 0.045 mW/g

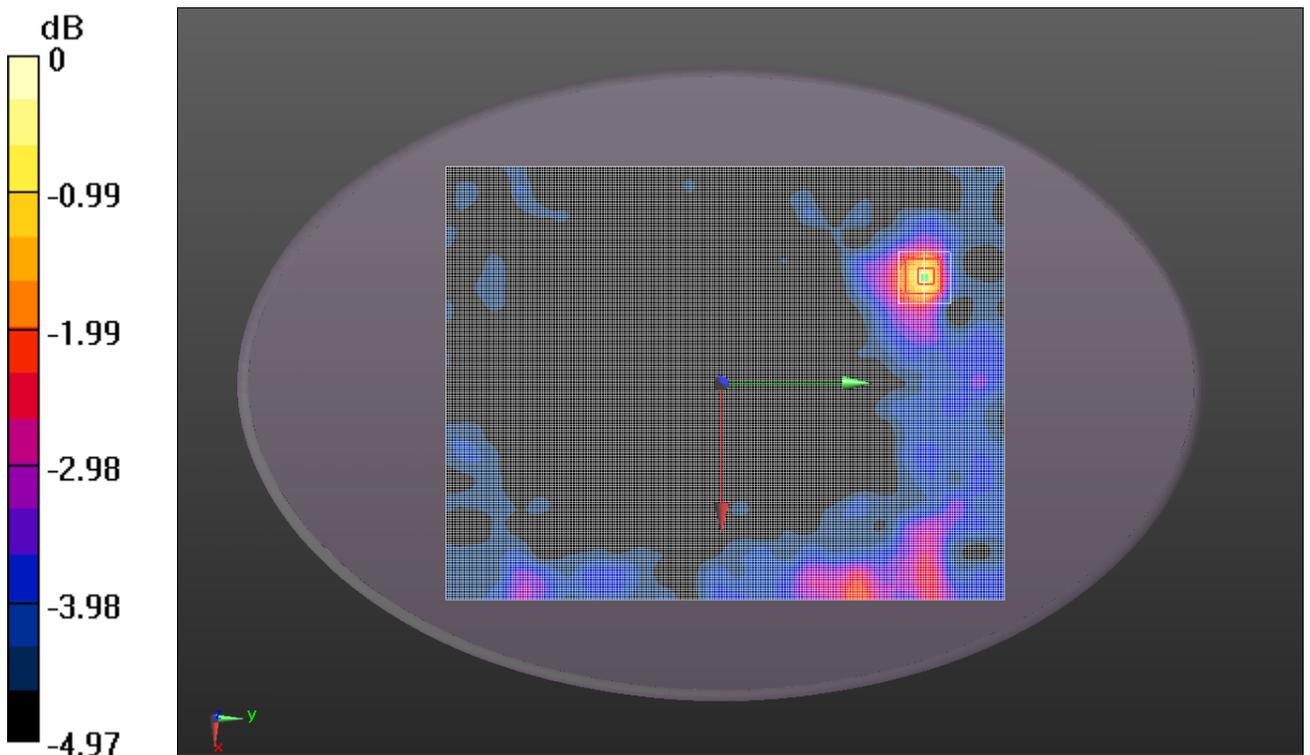
Test position 2_Channel High_fold/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.895 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.0750

SAR(1 g) = 0.044 mW/g; SAR(10 g) = 0.031 mW/g

Maximum value of SAR (measured) = 0.048 mW/g



0 dB = 0.050mW/g = -26.02 dB mW/g

Fig. 16 WCDMA 1900 CH9538 Test Position 2

WCDMA 1900 Test Position 3_High

Date/Time: 2/9/2012 6:31:31 PM

Electronics: DAE4 Sn786

Medium: Body 1900MHz

Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.559 \text{ mho/m}$; $\epsilon_r = 51.21$; $\rho = 1000 \text{ kg/m}^3$

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

Communication System: WCDMA Frequency: 1908 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(4.87, 4.87, 4.87)

Test position 3_Channel High_nomal/Area Scan (181x231x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Reference Value = 1.539 V/m; Power Drift = -0.06 dB

Maximum value of SAR (interpolated) = 0.010 mW/g

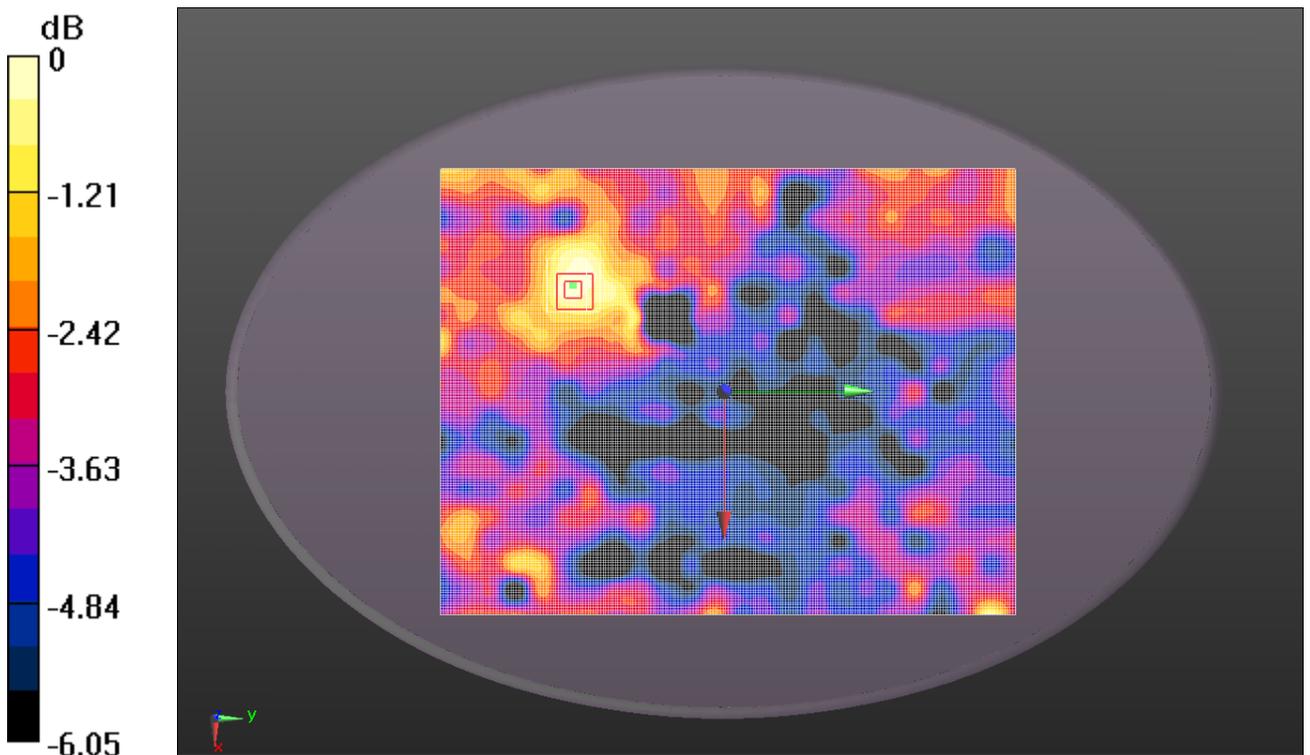
Test position 3_Channel High_nomal/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.539 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.0180

SAR(1 g) = 0.00909 mW/g; SAR(10 g) = 0.00765 mW/g

Maximum value of SAR (measured) = 0.011 mW/g



0 dB = 0.010mW/g = -40.00 dB mW/g

Fig. 17 WCDMA 1900 CH9538 Test Position 3

WCDMA 1900 Test Position 4_High

Date/Time: 2/9/2012 7:30:02 PM

Electronics: DAE4 Sn786

Medium: Body 1900MHz

Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.559 \text{ mho/m}$; $\epsilon_r = 51.21$; $\rho = 1000 \text{ kg/m}^3$

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

Communication System: WCDMA Frequency: 1908 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(4.87, 4.87, 4.87)

Test position 4_Channel High _rotate/Area Scan (181x231x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Reference Value = 2.155 V/m; Power Drift = 0.10 dB

Maximum value of SAR (interpolated) = 0.081 mW/g

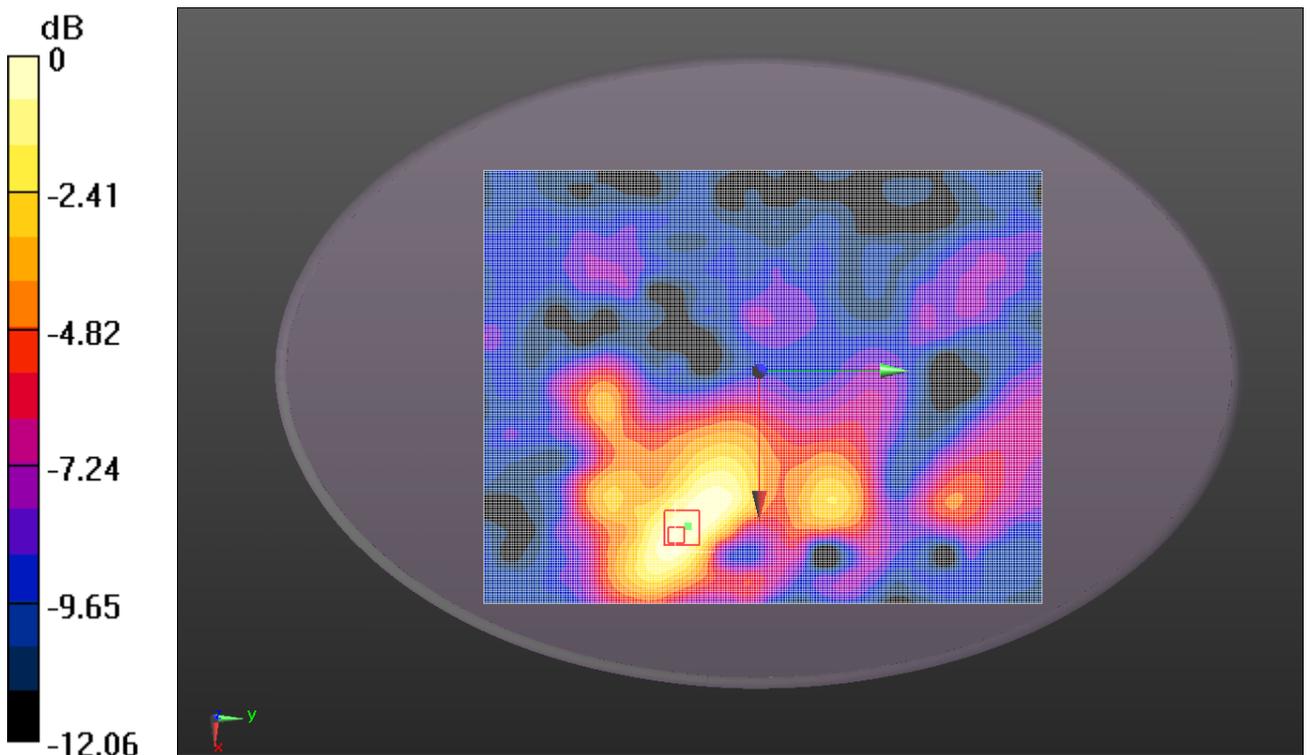
Test position 4_Channel High _rotate/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.155 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.1150

SAR(1 g) = 0.075 mW/g; SAR(10 g) = 0.049 mW/g

Maximum value of SAR (measured) = 0.081 mW/g



0 dB = 0.080mW/g = -21.94 dB mW/g

Fig. 18 WCDMA 1900 CH9538 Test Position 4

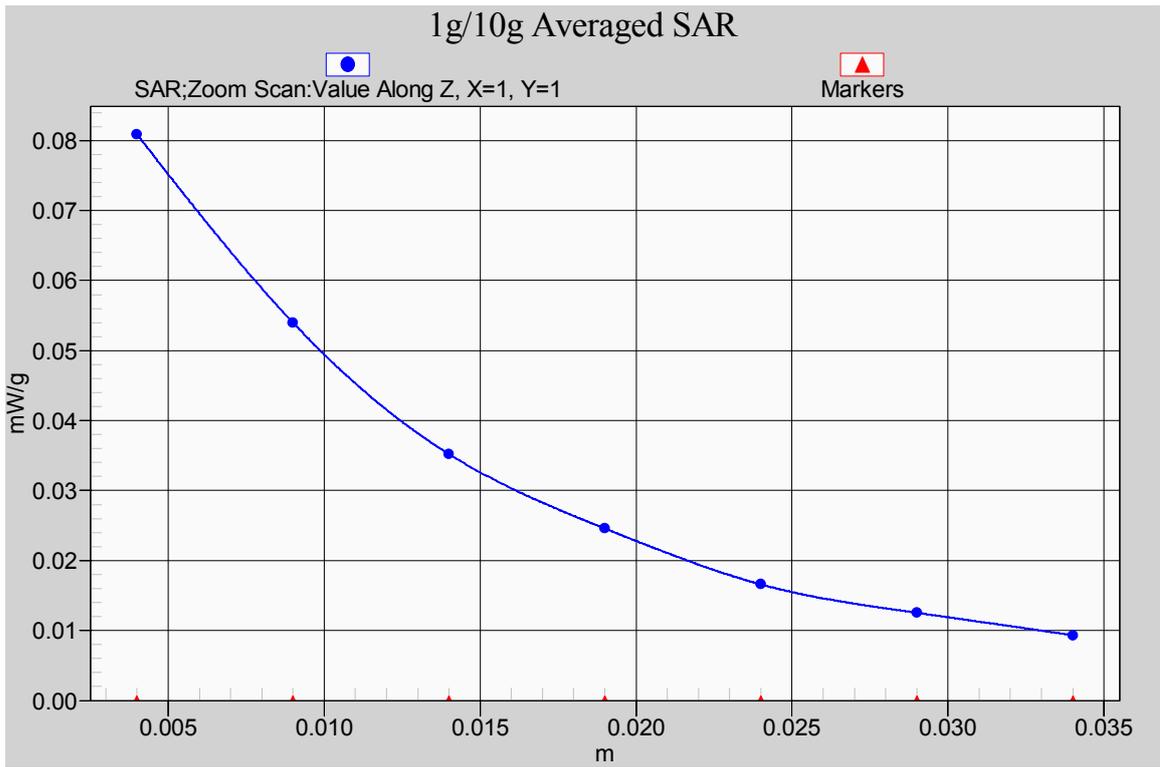


Fig. 18-1 Z-Scan at power reference point (1900MHz CH9538 Test Position 4)

WIFI 2450 802.11b Test Position 1_High

Date/Time: 2/8/2012 8:57:18 AM

Electronics: DAE4 Sn786

Medium: Body 2450

Medium parameters used: $f = 2462$ MHz; $\sigma = 2.044$ mho/m; $\epsilon_r = 51.135$; $\rho = 1000$ kg/m³

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

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

Probe: ES3DV3 - SN3151 ConvF(3.72, 3.72, 3.72)

802.11b/Test position 1_Channel High_Unfold/Area Scan (181x231x1):

Measurement grid: dx=10mm, dy=10mm

Reference Value = 4.196 V/m; Power Drift = -0.19 dB

Maximum value of SAR (interpolated) = 0.051 mW/g

802.11b/Test position 1_Channel High_Unfold/Zoom Scan (7x7x7)/Cube 0:

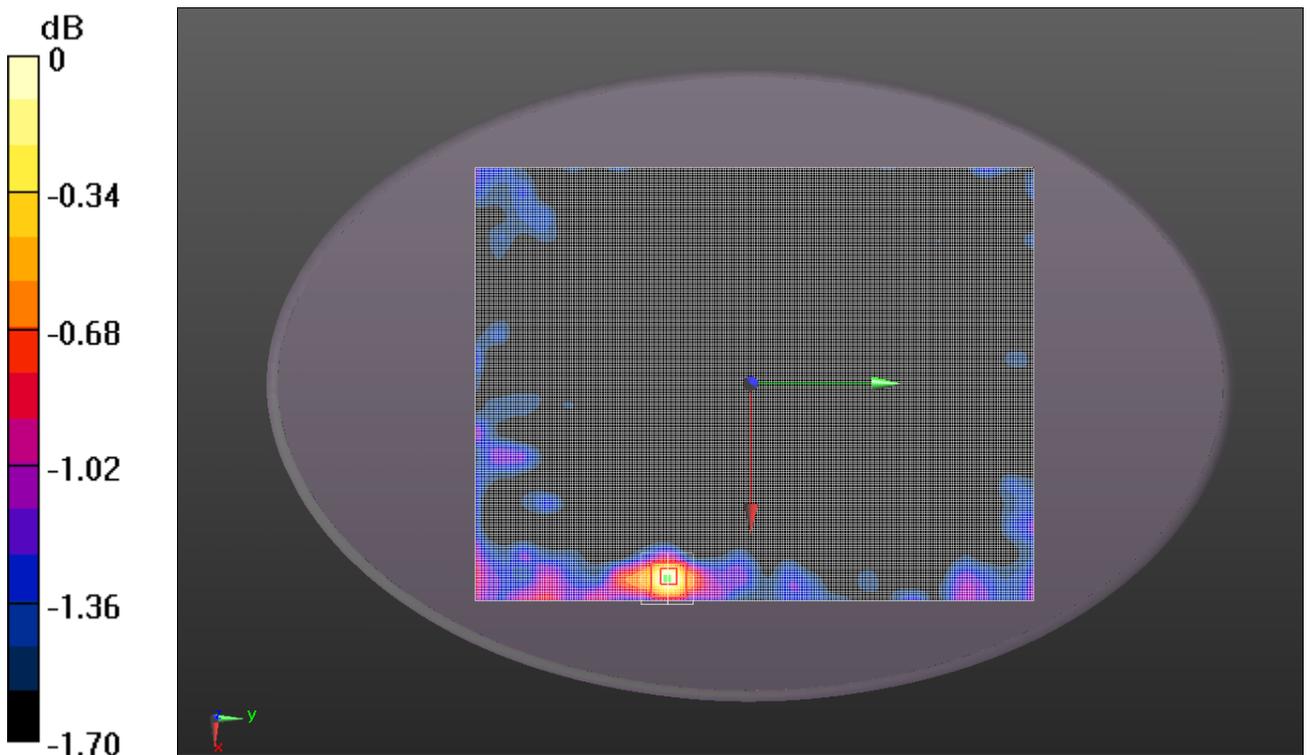
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.196 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.1540

SAR(1 g) = 0.047 mW/g; SAR(10 g) = 0.039 mW/g

Maximum value of SAR (measured) = 0.046 mW/g



0 dB = 0.050mW/g = -26.02 dB mW/g

Fig. 19 WIFI 2450 802.11b CH11 Test Position 1

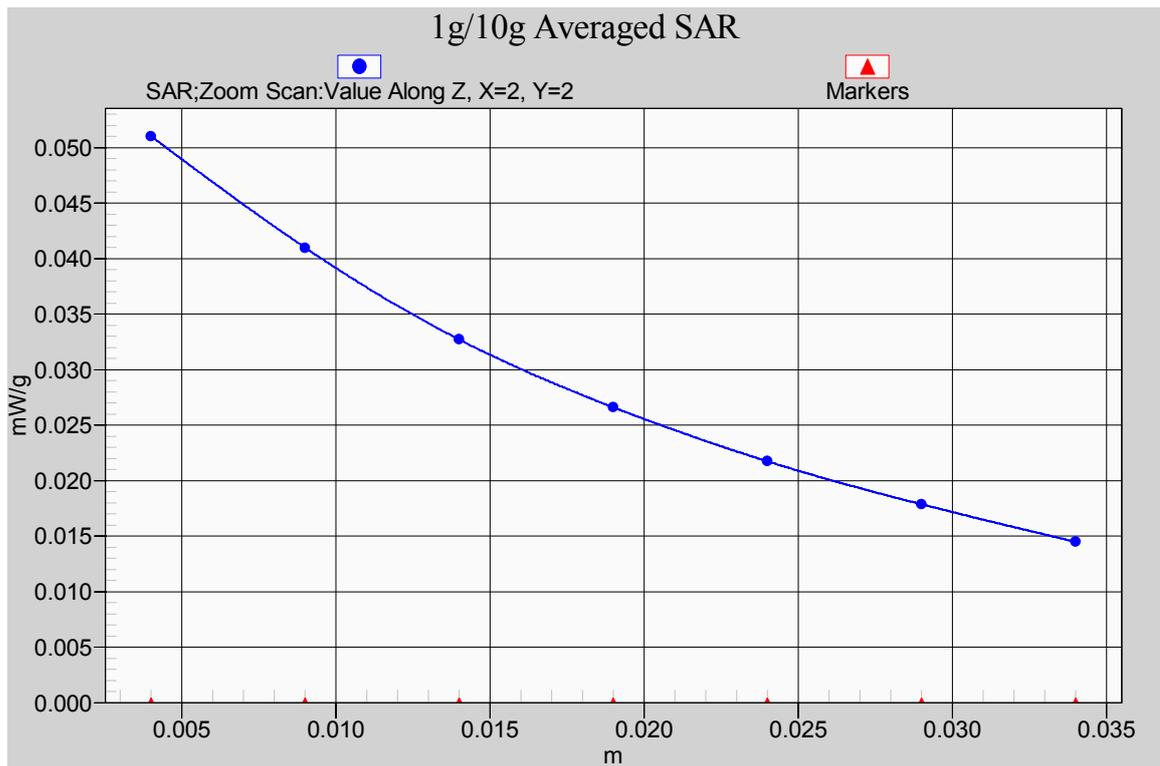


Fig. 19-1 Z-Scan at power reference point (2450MHz CH11 Test Position 1)

WIFI 2450 802.11b Test Position 2_High

Date/Time: 2/8/2012 9:54:13 AM

Electronics: DAE4 Sn786

Medium: Body 2450

Medium parameters used: $f = 2462$ MHz; $\sigma = 2.044$ mho/m; $\epsilon_r = 51.135$; $\rho = 1000$ kg/m³

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

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

Probe: ES3DV3 - SN3151 ConvF(3.72, 3.72, 3.72)

802.11b/Test position 2_Channel High _fold/Area Scan (181x231x1):

Measurement grid: dx=10mm, dy=10mm

Reference Value = 2.187 V/m; Power Drift = 0.14 dB

Maximum value of SAR (interpolated) = 0.045 mW/g

802.11b/Test position 2_Channel High _fold/Zoom Scan (7x7x7)/Cube 0:

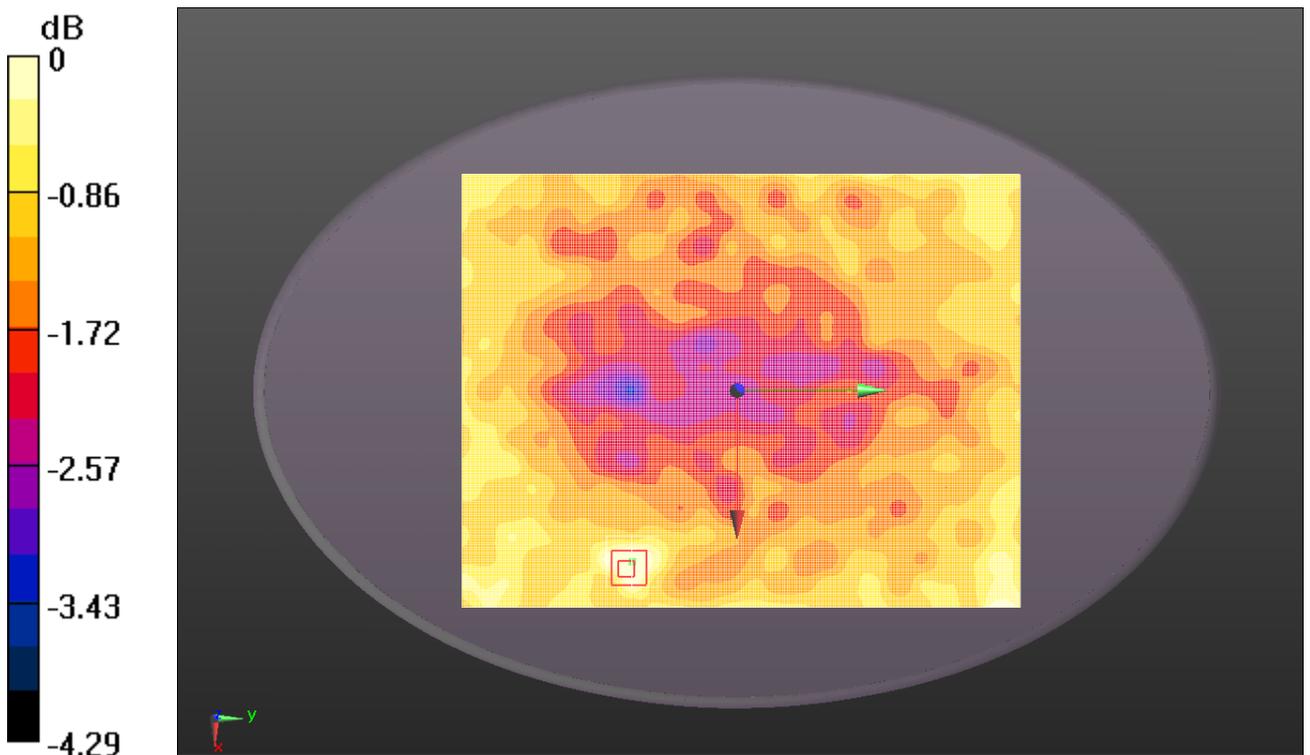
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.187 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.0620

SAR(1 g) = 0.040 mW/g; SAR(10 g) = 0.033 mW/g

Maximum value of SAR (measured) = 0.041 mW/g



0 dB = 0.040mW/g = -27.96 dB mW/g

Fig. 20WIFI 2450 802.11b CH11 Test Position 2

WiFi 2450 802.11g Test Position 1_High

Date/Time: 2/8/2012 11:05:08 AM

Electronics: DAE4 Sn786

Medium: Body 2450

Medium parameters used: $f = 2462$ MHz; $\sigma = 2.044$ mho/m; $\epsilon_r = 51.135$; $\rho = 1000$ kg/m³

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

Communication System: WiFi 802.11 g Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(3.72, 3.72, 3.72)

802.11g/Test position 1_Channel High_Unfold/Area Scan (181x231x1):

Measurement grid: dx=10mm, dy=10mm

Reference Value = 2.892 V/m; Power Drift = 0.04 dB

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

802.11g/Test position 1_Channel High_Unfold/Zoom Scan (7x7x7)/Cube 0:

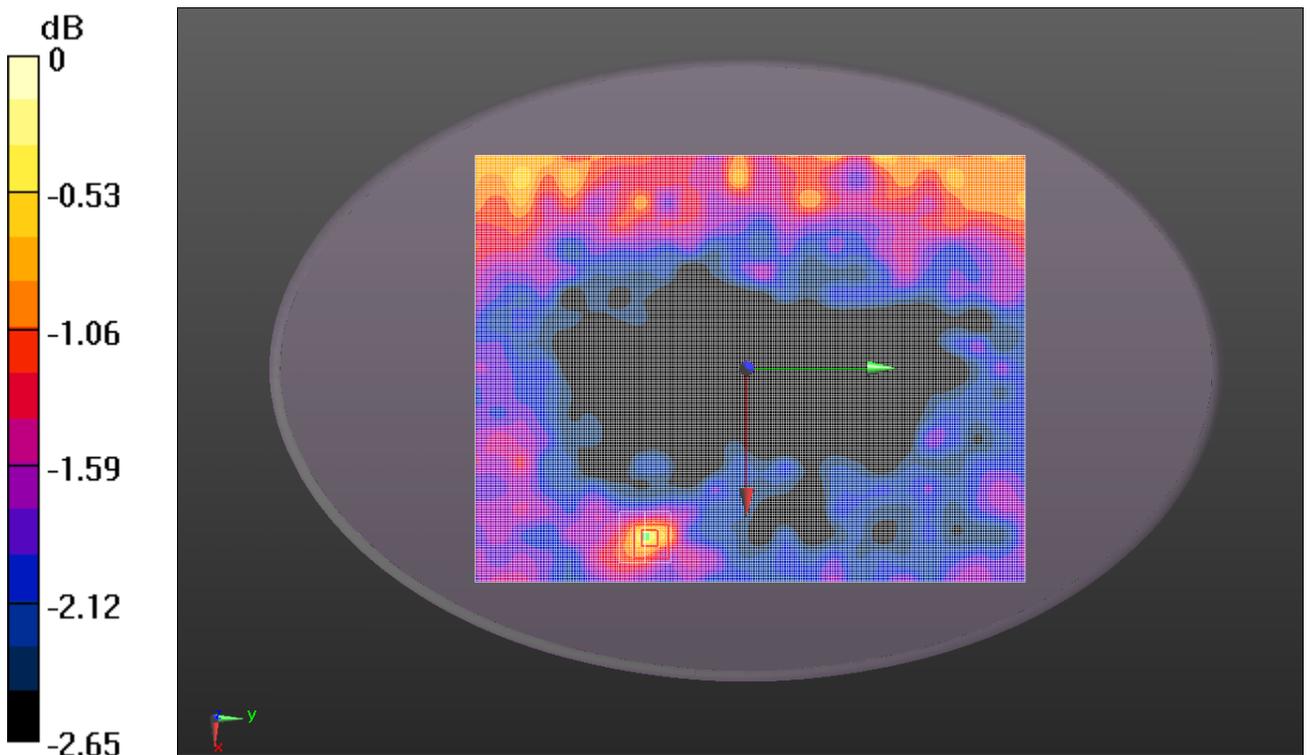
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.892 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.0600

SAR(1 g) = 0.040 mW/g; SAR(10 g) = 0.033 mW/g

Maximum value of SAR (measured) = 0.042 mW/g



0 dB = 0.040mW/g = -27.96 dB mW/g

Fig. 21WiFi 2450 802.11g CH11 Test Position 1

WIFI 2450 802.11g Test Position 2_High

Date/Time: 2/8/2012 12:11:28 PM

Electronics: DAE4 Sn786

Medium: Body 2450

Medium parameters used: $f = 2462$ MHz; $\sigma = 2.044$ mho/m; $\epsilon_r = 51.135$; $\rho = 1000$ kg/m³

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

Communication System: WiFi 802.11 g Frequency: 2462 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(3.72, 3.72, 3.72)

Test position 2_Channel High_fold/Area Scan (181x231x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 2.153 V/m; Power Drift = 0.08 dB

Maximum value of SAR (interpolated) = 0.043 mW/g

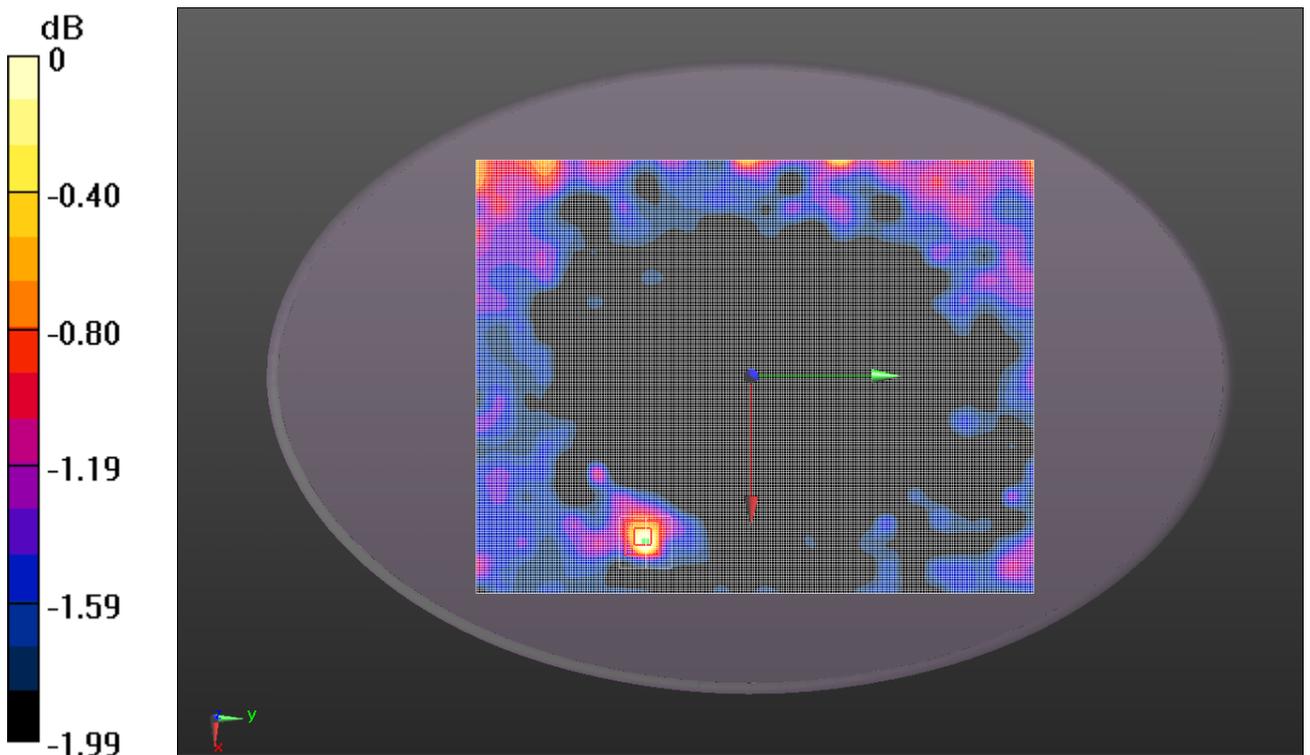
Test position 2_Channel High_fold/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.153 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.0890

SAR(1 g) = 0.044 mW/g; SAR(10 g) = 0.036 mW/g

Maximum value of SAR (measured) = 0.043 mW/g



0 dB = 0.040mW/g = -27.96 dB mW/g

Fig. 22WIFI 2450 802.11g CH11 Test Position 2

ANNEX D SYSTEM VALIDATION RESULTS

835MHz

Date/Time: 2/17/2012 6:35:31 AM

Electronics: DAE4 Sn786

Medium: 850 Body

Medium parameters used: $f = 835$ MHz; $\sigma = 1.00$ mho/m; $\epsilon_r = 54.17$; $\rho = 1000$ kg/m³

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

Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF (6.02, 6.02, 6.02)

System Validation /Area Scan (101x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 2.69 mW/g

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

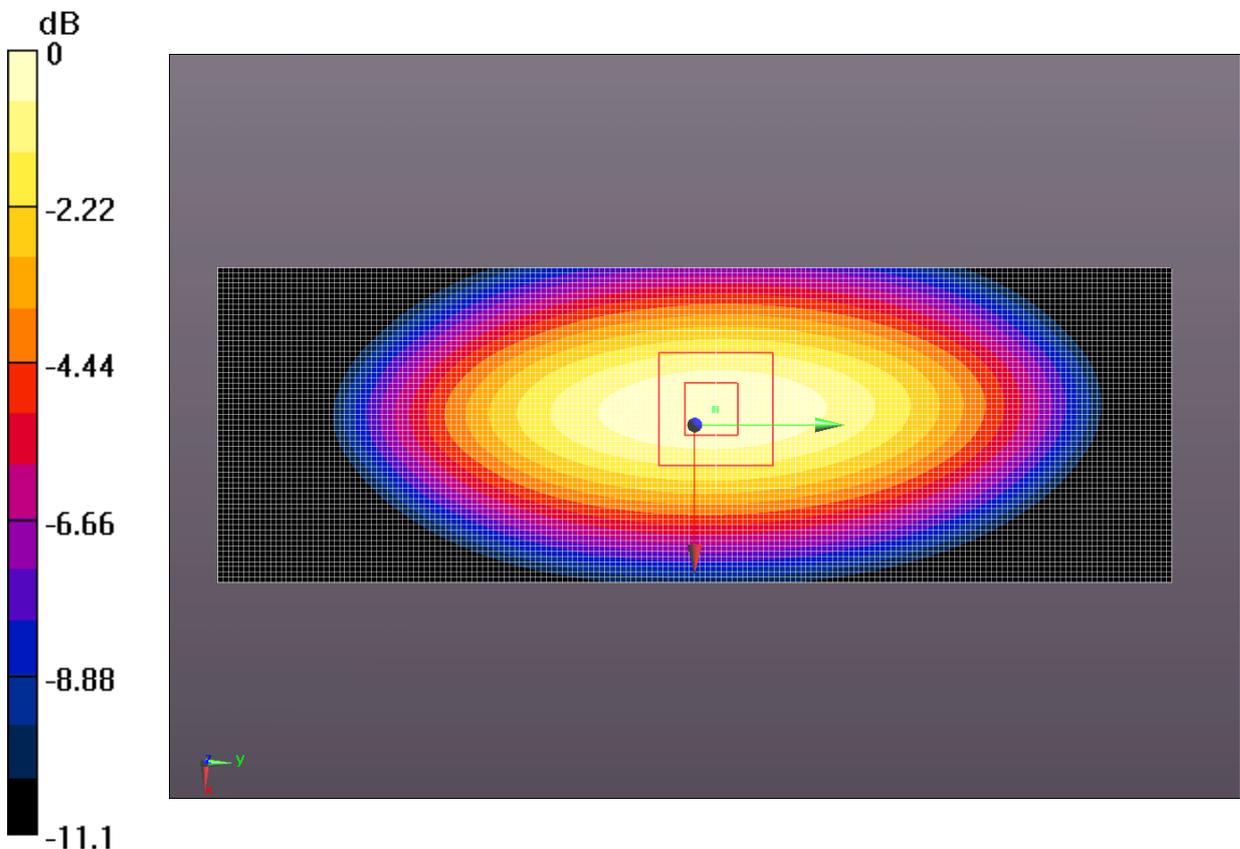
dy=5mm, dz=5mm

Reference Value = 53.0 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 3.47 W/kg

SAR(1 g) = 2.48 mW/g; SAR(10 g) = 1.55 mW/g

Maximum value of SAR (measured) = 2.56 mW/g



0 dB = 2.58mW/g

Fig.23 validation 835MHz 250Mw

1900MHz

Date/Time: 2/09/2012 6:36:15 AM

Electronics: DAE4 Sn786

Medium: Body 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.23$; $\rho = 1000$ kg/m³

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

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

Probe: ES3DV3 - SN3151 ConvF (4.87, 4.87, 4.87)

System Validation/Area Scan (101x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 11.8 mW/g

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

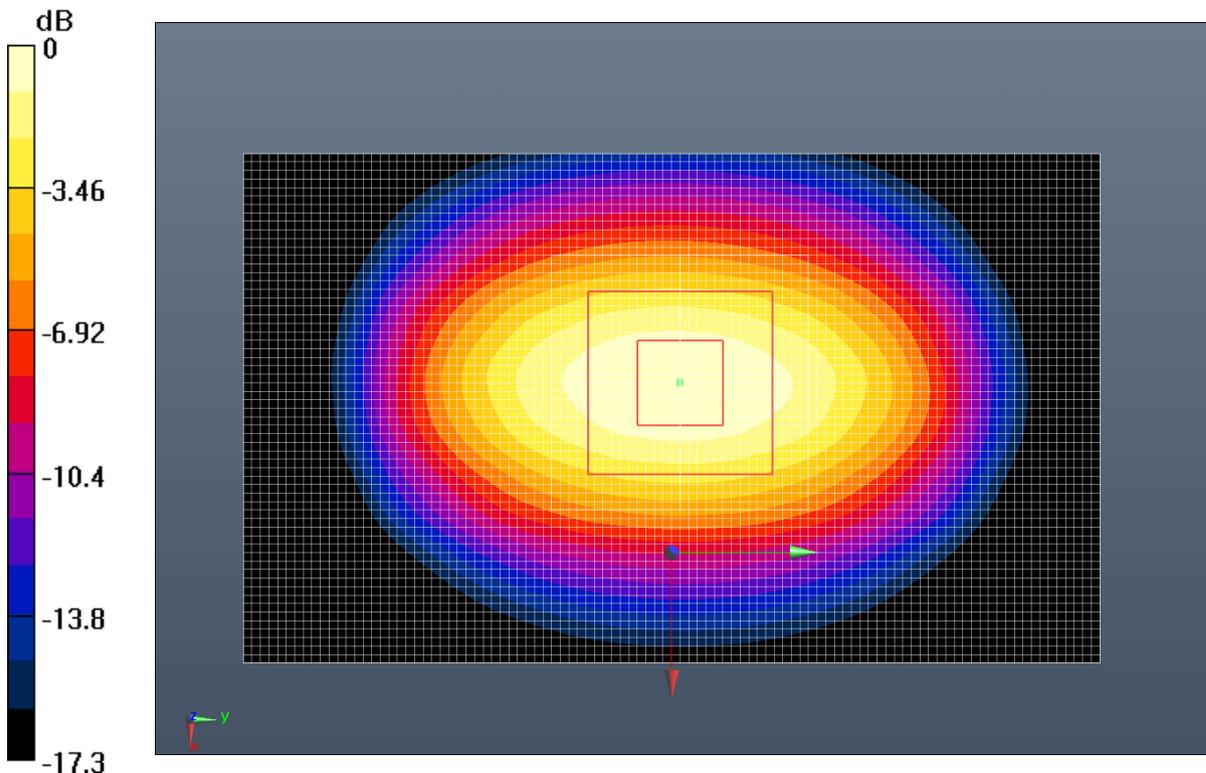
dz=5mm

Reference Value = 93.6 V/m; Power Drift = 0.062 dB

Peak SAR (extrapolated) = 16.7 W/kg

SAR(1 g) = 10.5 mW/g; SAR(10 g) = 5.21 mW/g

Maximum value of SAR (measured) = 11.6 mW/g



0 dB = 11.4mW/g

Fig.24 validation 1900MHz 250Mw