

# Impedance Measurement Plot for Head TSL

21 Sep 2015 12:00:21

CH1 S11 1 U FS

1: 51.953  $\Omega$  5.5293  $\Omega$  463.17  $\mu\text{H}$

1 900.000 000 MHz

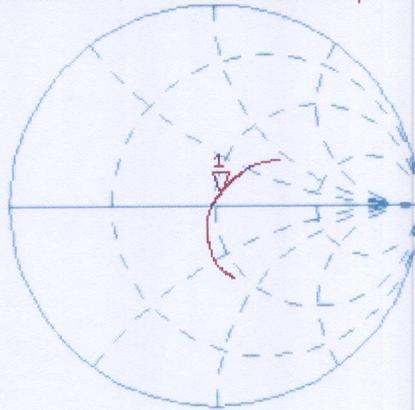
\*

De1

CA

Avg  
16

H1d



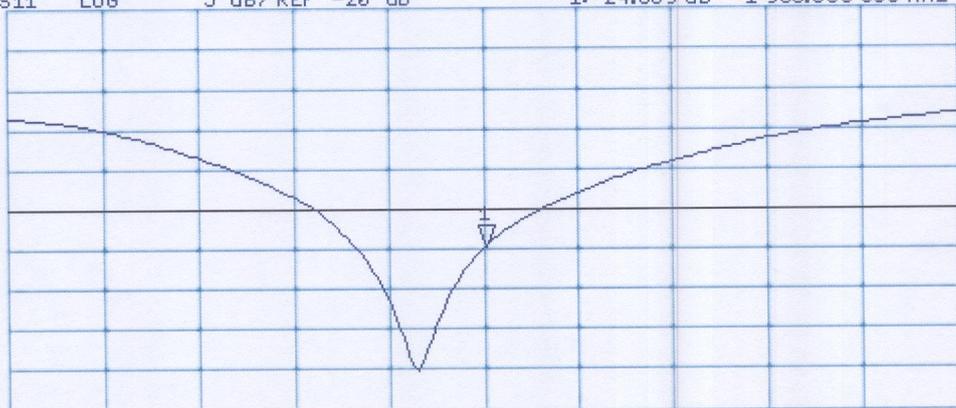
CH2 S11 LOG 5 dB/REF -20 dB 1:-24.809 dB 1 900.000 000 MHz

De1

CA

Avg  
16

H1d



START 1 700.000 000 MHz

STOP 2 100.000 000 MHz

# DASY5 Validation Report for Body TSL

Date: 21.09.2015

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d091**

Communication System: UID 0 - CW; Frequency: 1900 MHz

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.52$  S/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(7.9, 7.9, 7.9); Calibrated: 30.12.2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 17.08.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

## Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

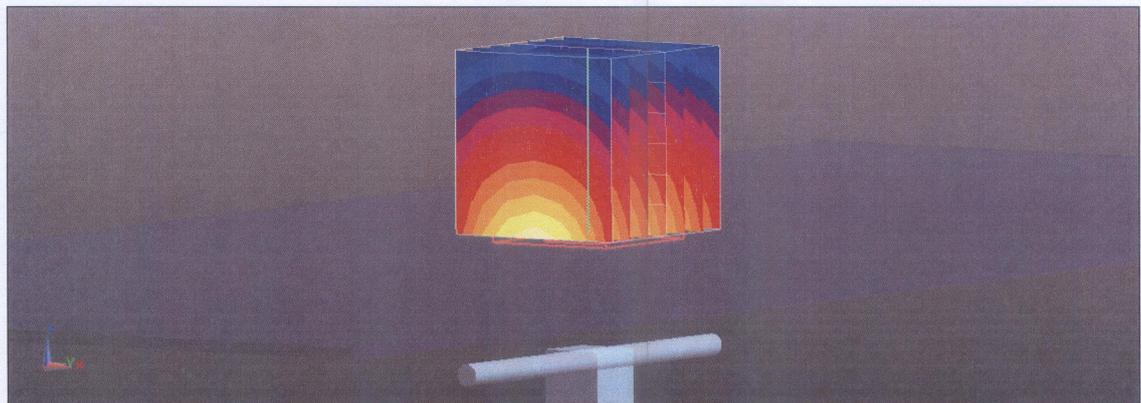
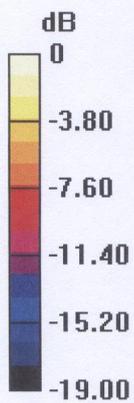
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 104.6 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 18.1 W/kg

**SAR(1 g) = 10 W/kg; SAR(10 g) = 5.27 W/kg**

Maximum value of SAR (measured) = 15.4 W/kg



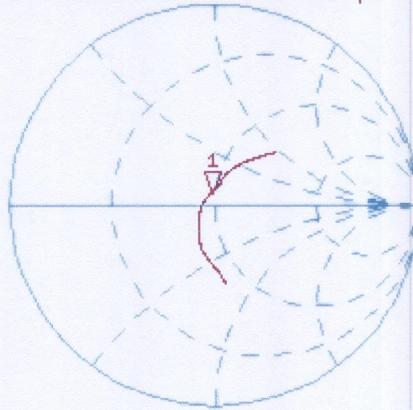
0 dB = 15.4 W/kg = 11.88 dBW/kg

# Impedance Measurement Plot for Body TSL

21 Sep 2015 11:59:57

CH1 S11 1 U FS 1: 48.209  $\Omega$  5.9512  $\Omega$  498.50  $\mu$ H 1 900.000 000 MHz

\*  
De1  
C $\Delta$



Avg  
16

H1d

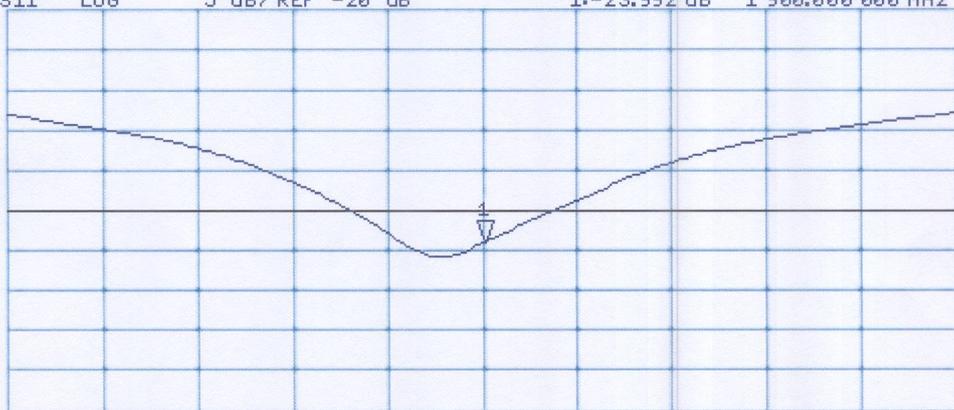
CH2 S11 LOG 5 dB/REF -20 dB 1:-23.992 dB 1 900.000 000 MHz

De1

C $\Delta$

Avg  
16

H1d



START 1 700.000 000 MHz

STOP 2 100.000 000 MHz