#### **APPENDIX B Plots Of The SAR Measurements**

Plots of the measured SAR distributions inside the phantom are given in this Appendix for all tested configurations. The spatial peak SAR values were assessed with the procedure described in this report.

#### Table 18: 1900 MHz GSM SAR Plots

<b>Test Position</b>	Plot Number	Test Channel
Tilted Left	1	661
Touch Left	2	661
Z	axis Graphs for Plots 1 to 2	2
Tilted Right	3	661
Touch Right	4	512
	5	661
	6	810
Z	axis Graphs for Plots 3 to 6	6
Body Worn Position Front	7	661
Body Worn	8	512
Position Back	9	661
	10	810
7	avia Cranha far Dlata 7 to 1	0

Z axis Graphs for Plots 7 to 10

#### Table 19: 1900 MHz GPRS SAR Plots

Test Positio	on Plot Number	Test Channel
Tilted Left	11	661
Touch Left	12	661
	Z axis Graphs for Plots 11 to	12
Tilted Right	13	661
Touch Right	14	512
	15	661
	16	810
	Z axis Graphs for Plots 13 to	16
Body Worn	17	512
Position Front	18	661
	19	810
	Z axis Graphs for Plots 17 to	19
Body Worn	20	512
Position Back	21	661
	22	810
	Z axis Graphs for Plots 20 to 2	22



#### Table 20: SAR Validation Plots

Plot Numbe	r Date	Frequency
Plot 23	7 <sup>th</sup> Dec. 2004	1800 MHz
Plot 24	8 <sup>th</sup> May 2004	1800 MHz
Plot 25	11 <sup>th</sup> Dec. 2004	1800 MHz
	Z axis Graphs for Plots 23 to 25	



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#### Test Date: 07 December 2004

File Name: <u>Tilted Left 1900 MHz GSM (DAE900 Probe1377) 07-12-04.da4</u> DUT: Voxson GSM Phone; Antenna: Fixed Length (Non-Extendable); Antenna: Fixed Length (Non-Extendable); Type: VX750; Serial: 20041105

- \* Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3
- \* Medium parameters used:  $\sigma$  = 1.43822; mho/m,  $\epsilon_r$  = 38.8705;  $\rho$  = 1000 kg/m<sup>3</sup>
- Electronics: DAE4 Sn900; Probe: ET3DV6 SN1377; ConvF(5.12, 5.12, 5.12)
- Phantom: SAM 22; Serial: 1260; Phantom section: Left Section

**Channel 661 Test/Area Scan (141x61x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.071 mW/g

# **Channel 661 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.54 V/m; Power Drift = -0.0 dB Peak SAR (extrapolated) = 0.088 W/kg SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.037 mW/g Maximum value of SAR (measured) = 0.065 mW/g





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#### Test Date: 07 December 2004

File Name: <u>Touch Left 1900 MHz GSM (DAE900 Probe1377) 07-12-04.da4</u> DUT: Voxson GSM Phone; Antenna: Fixed Length (Non-Extendable); Type: VX750; Serial: 20041105

- \* Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3
- \* Medium parameters used:  $\sigma$  = 1.43822; mho/m,  $\epsilon_r$  = 38.8705;  $\rho$  = 1000 kg/m<sup>3</sup>
- Electronics: DAE4 Sn900; Probe: ET3DV6 SN1377; ConvF(5.12, 5.12, 5.12)
- Phantom: SAM 22; Serial: 1260; Phantom section: Left Section

# Channel 661 Test/Area Scan (141x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.306 mW/g

# Channel 661 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.85 V/m; Power Drift = -0.0 dB Peak SAR (extrapolated) = 0.425 W/kg SAR(1 g) = 0.263 mW/g; SAR(10 g) = 0.145 mW/g Maximum value of SAR (measured) = 0.290 mW/g







# Z-Axis Graph for Plot 1

Z-Axis Graph for Plot 2









File Name: <u>Tilted Right 1900 MHz GSM (DAE900 Probe1377) 07-12-04.da4</u> DUT: Voxson GSM Phone; Antenna: Fixed Length (Non-Extendable); Type: VX750; Serial: 20041105

- \* Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3
- \* Medium parameters used:  $\sigma$  = 1.43822; mho/m,  $\epsilon_r$  = 38.8705;  $\rho$  = 1000 kg/m<sup>3</sup>
- Electronics: DAE4 Sn900; Probe: ET3DV6 SN1377; ConvF(5.12, 5.12, 5.12)
- Phantom: SAM 22; Serial: 1260; Phantom section: Right Section

### Channel 661 Test/Area Scan (141x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.072 mW/g

# Channel 661 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

dz=5mm Reference Value = 6.68 V/m; Power Drift = -0.0 dB Peak SAR (extrapolated) = 0.091 W/kg SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.039 mW/g Maximum value of SAR (measured) = 0.068 mW/g





File Name: <u>Touch Right 1900 MHz GSM (DAE900 Probe1377) 07-12-04.da4</u> DUT: Voxson GSM Phone; Antenna: Fixed Length (Non-Extendable); Type: VX750; Serial: 20041105

- \* Communication System: PCS; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
- \* Medium parameters used:  $\sigma$  = 1.42355; mho/m,  $\epsilon_r$  = 38.9928;  $\rho$  = 1000 kg/m<sup>3</sup>
- Electronics: DAE4 Sn900; Probe: ET3DV6 SN1377; ConvF(5.12, 5.12, 5.12)
- Phantom: SAM 22; Serial: 1260; Phantom section: Right Section

# Channel 512 Test/Area Scan (141x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.379 mW/g

# Channel 512 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

dz=5mm Reference Value = 7.02 V/m; Power Drift = -0.1 dB Peak SAR (extrapolated) = 0.685 W/kg SAR(1 g) = 0.333 mW/g; SAR(10 g) = 0.183 mW/g Maximum value of SAR (measured) = 0.356 mW/g





File Name: <u>Touch Right 1900 MHz GSM (DAE900 Probe1377) 07-12-04.da4</u> DUT: Voxson GSM Phone; Antenna: Fixed Length (Non-Extendable); Type: VX750; Serial: 20041105

- \* Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3
- \* Medium parameters used:  $\sigma$  = 1.43822; mho/m,  $\epsilon_r$  = 38.8705;  $\rho$  = 1000 kg/m<sup>3</sup>
- Electronics: DAE4 Sn900; Probe: ET3DV6 SN1377; ConvF(5.12, 5.12, 5.12)
- Phantom: SAM 22; Serial: 1260; Phantom section: Right Section

# Channel 661 Test/Area Scan (141x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.504 mW/g

# Channel 661 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

dz=5mm Reference Value = 7.79 V/m; Power Drift = -0.1 dB Peak SAR (extrapolated) = 0.960 W/kg SAR(1 g) = 0.447 mW/g; SAR(10 g) = 0.246 mW/g Maximum value of SAR (measured) = 0.482 mW/g





File Name: <u>Touch Right 1900 MHz GSM (DAE900 Probe1377) 07-12-04.da4</u> DUT: Voxson GSM Phone; Antenna: Fixed Length (Non-Extendable); Type: VX750; Serial: 20041105

- \* Communication System: PCS; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
- \* Medium parameters used:  $\sigma$  = 1.45317; mho/m,  $\epsilon_r$  = 38.755;  $\rho$  = 1000 kg/m<sup>3</sup>
- Electronics: DAE4 Sn900; Probe: ET3DV6 SN1377; ConvF(5.12, 5.12, 5.12)
- Phantom: SAM 22; Serial: 1260; Phantom section: Right Section

### Channel 810 Test/Area Scan (141x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.801 mW/g

# Channel 810 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

dz=5mm Reference Value = 10 V/m; Power Drift = -0.1 dB Peak SAR (extrapolated) = 1.45 W/kg SAR(1 g) = 0.688 mW/g; SAR(10 g) = 0.375 mW/g Maximum value of SAR (measured) = 0.737 mW/g







#### Z-Axis Graph for Plot 3

#### Z-Axis Graph for Plot 4





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#### Z-Axis Graph for Plot 5

#### Z-Axis Graph for Plot 6



