

Fig.74 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 2-antenna unfolded)

EV-DO REV.A 1900 Test Position 3 with DELL Laptop-antenna unfolded

Date/Time: 2006-11-14 17:47:23

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 3/Area Scan (81x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.173 mW/g

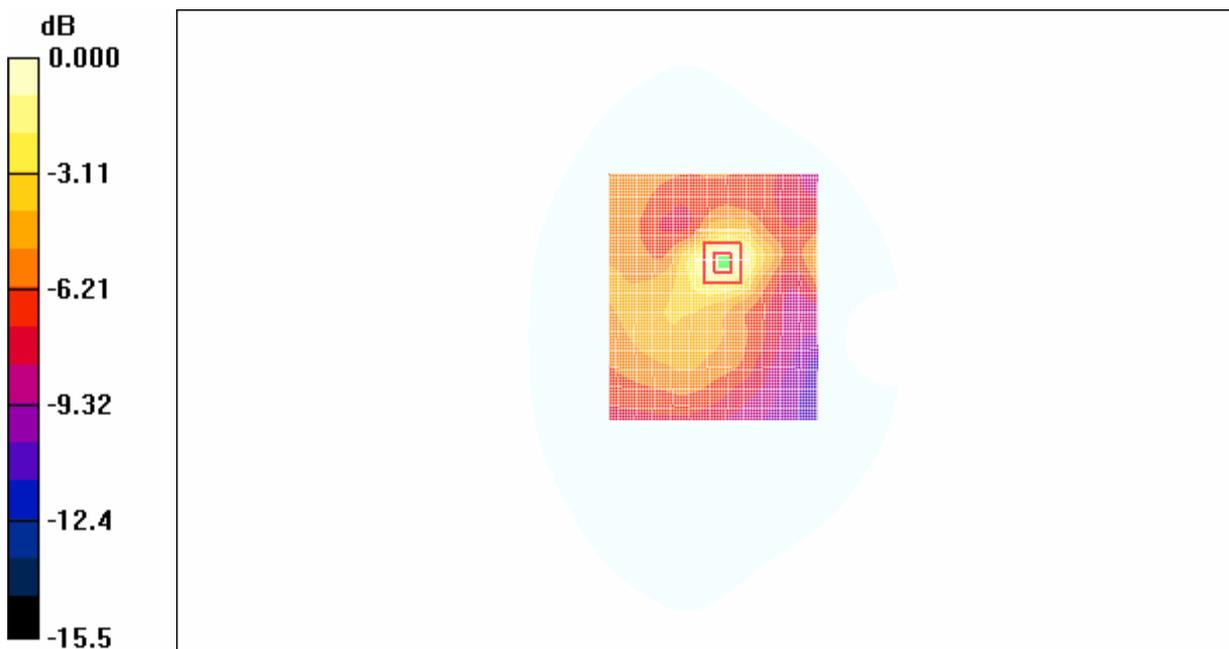
Test Position 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.17 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 0.247 W/kg

SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.089 mW/g

Maximum value of SAR (measured) = 0.169 mW/g



0 dB = 0.169mW/g

Fig. 75 EV-DO REV.A 1900 CH600 Test Position 3-antenna unfolded

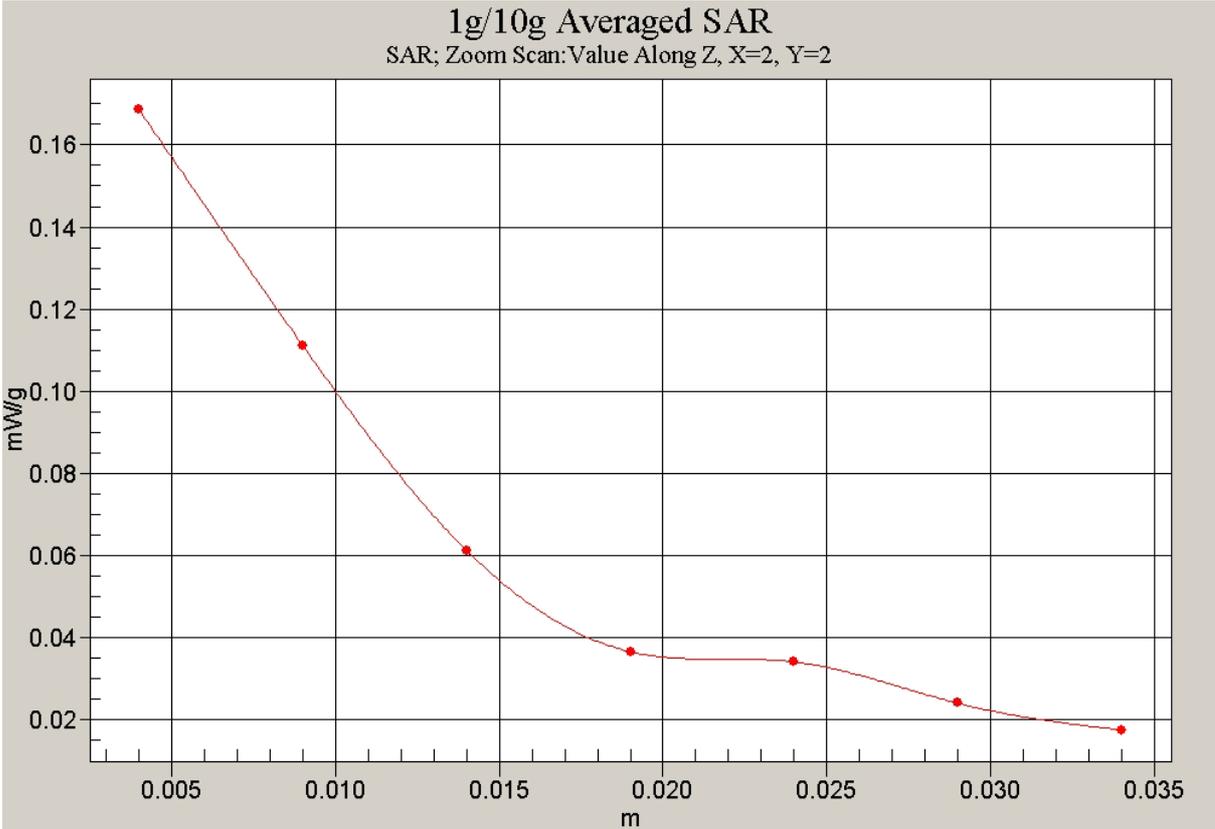


Fig.76 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 3-antenna unfolded)

EV-DO REV.A 1900 Test Position 4 with DELL Laptop-antenna unfolded

Date/Time: 2006-11-14 16:39:49

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 4/Area Scan (81x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.798 mW/g

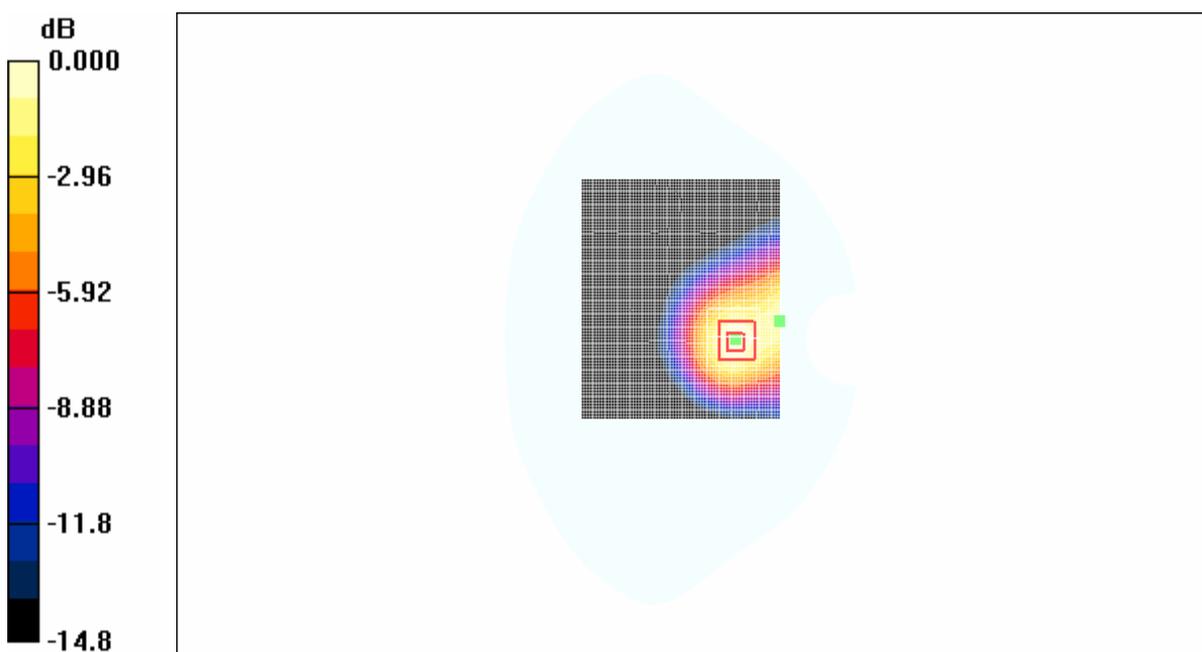
Test Position 4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.59 V/m; Power Drift = -0.137 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.722 mW/g; SAR(10 g) = 0.434 mW/g

Maximum value of SAR (measured) = 0.772 mW/g



0 dB = 0.772mW/g

Fig. 77 EV-DO REV.A 1900 CH600 Test Position 4-antenna unfolded

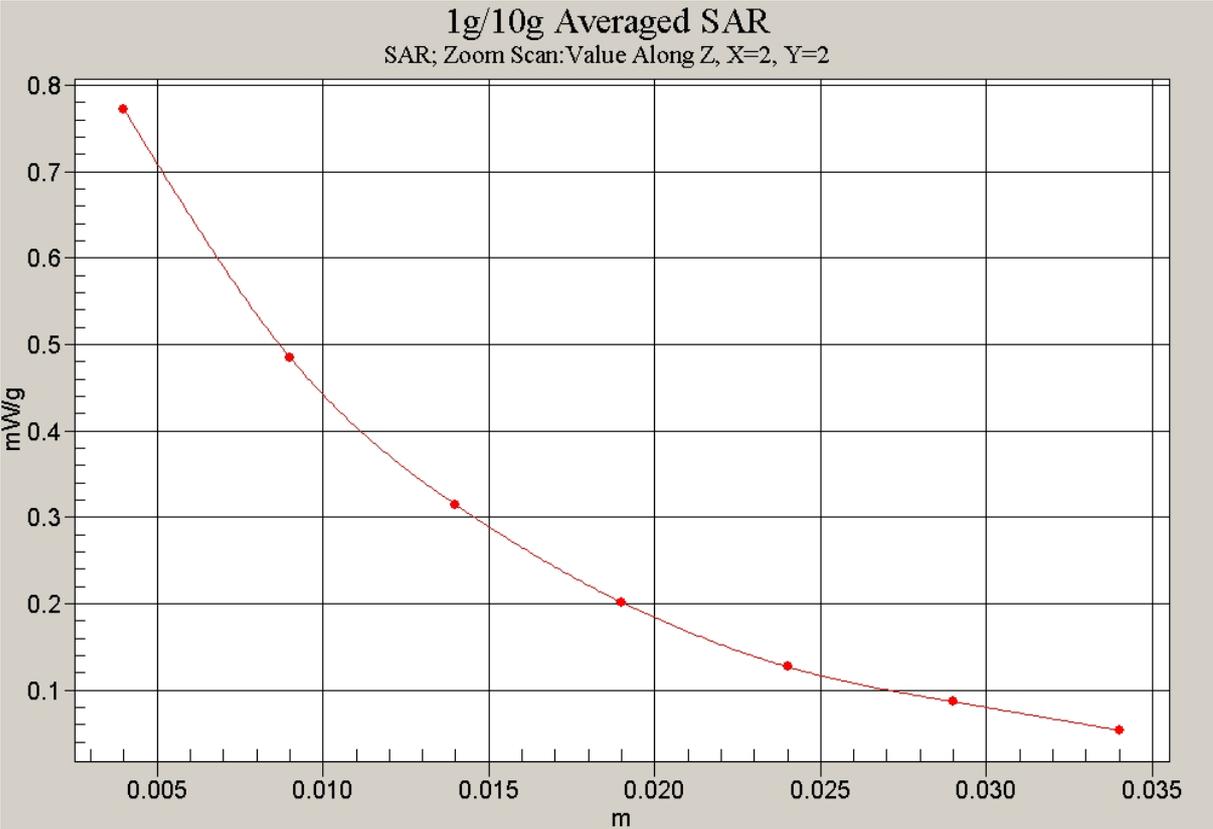


Fig.78 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 4-antenna unfolded)

EV-DO REV.A 1900 Test Position 5 with DELL Laptop-antenna unfolded

Date/Time: 2006-11-14 19:36:38

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 5/Area Scan (71x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.890 mW/g

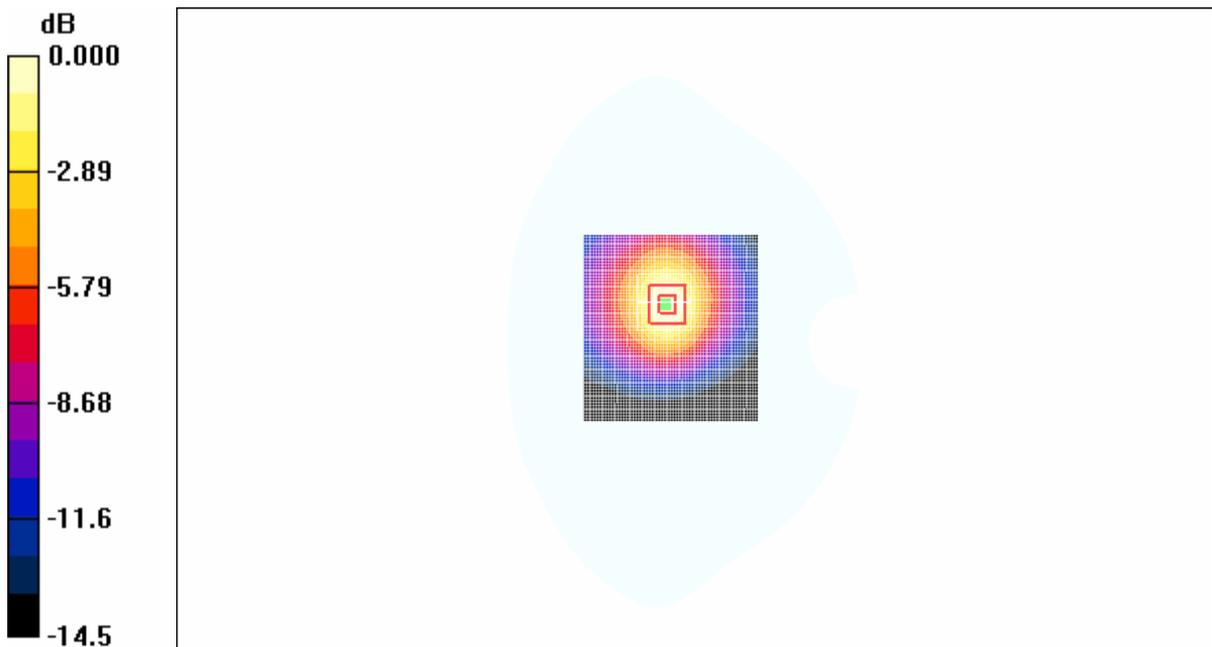
Test Position 5/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.3 V/m; Power Drift = -0.125 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.780 mW/g; SAR(10 g) = 0.462 mW/g

Maximum value of SAR (measured) = 0.844 mW/g



0 dB = 0.844mW/g

Fig. 79 EV-DO REV.A 1900 CH600 Test Position 5-antenna unfolded



Fig.80 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 5-antenna unfolded)

EV-DO REV.A 1900 Test Position 1 with HP Laptop-antenna folded

Date/Time: 2006-11-14 9:14:55

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 1/Area Scan (71x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.536 mW/g

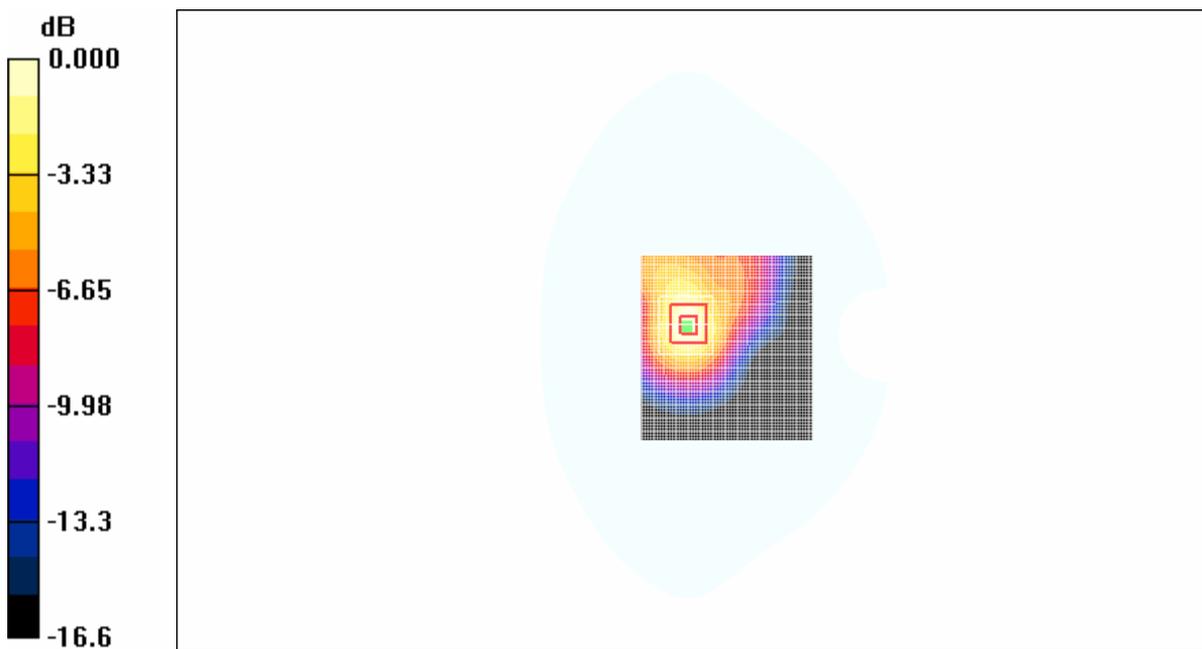
Test Position 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.0 V/m; Power Drift = 0.058 dB

Peak SAR (extrapolated) = 0.818 W/kg

SAR(1 g) = 0.482 mW/g; SAR(10 g) = 0.283 mW/g

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



0 dB = 0.519mW/g

Fig. 81 EV-DO REV.A 1900 CH600 Test Position 1-antenna folded

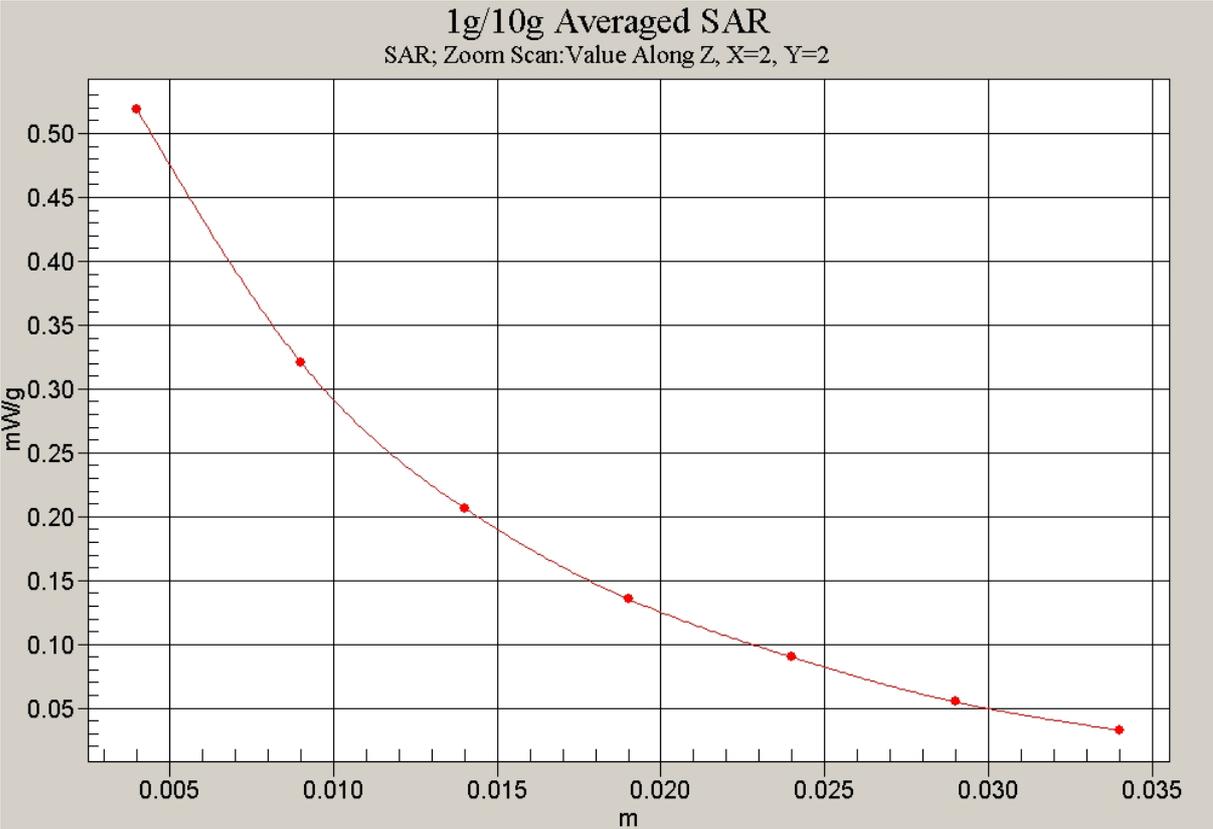


Fig.82 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 1-antenna folded)

EV-DO REV.A 1900 Test Position 2 with HP Laptop-antenna folded

Date/Time: 2006-11-14 9:54:43

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 2/Area Scan (71x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.974 mW/g

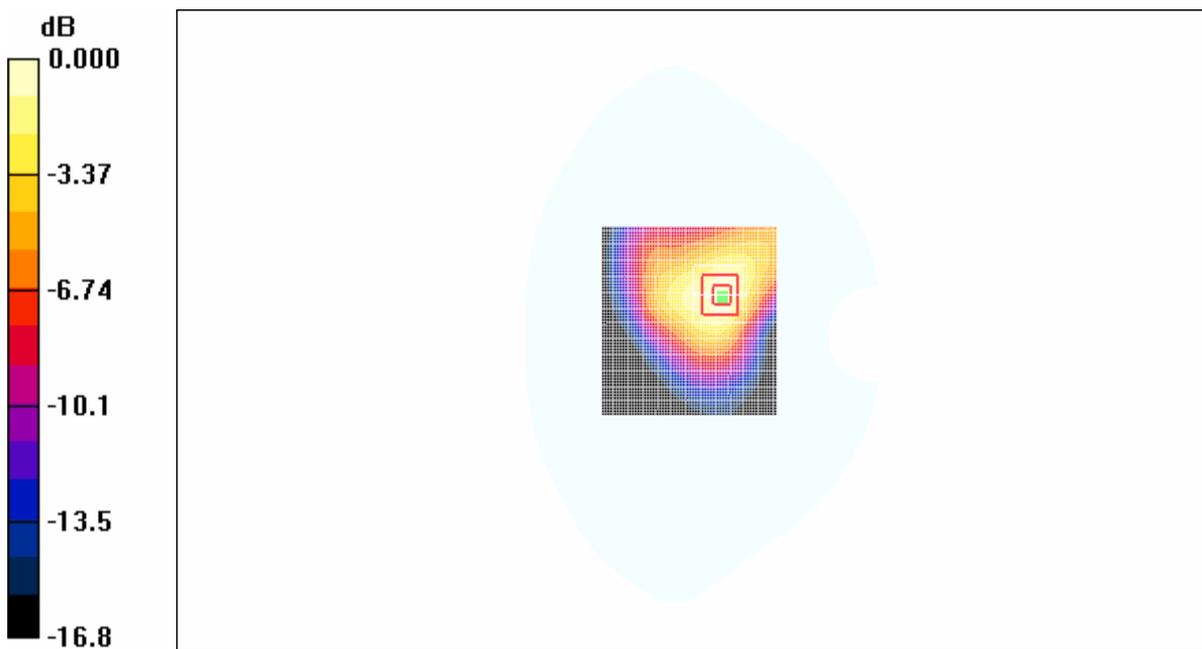
Test Position 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.7 V/m; Power Drift = -0.064 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.869 mW/g; SAR(10 g) = 0.522 mW/g

Maximum value of SAR (measured) = 0.948 mW/g



0 dB = 0.948mW/g

Fig. 83 EV-DO REV.A 1900 CH600 Test Position 2-antenna folded

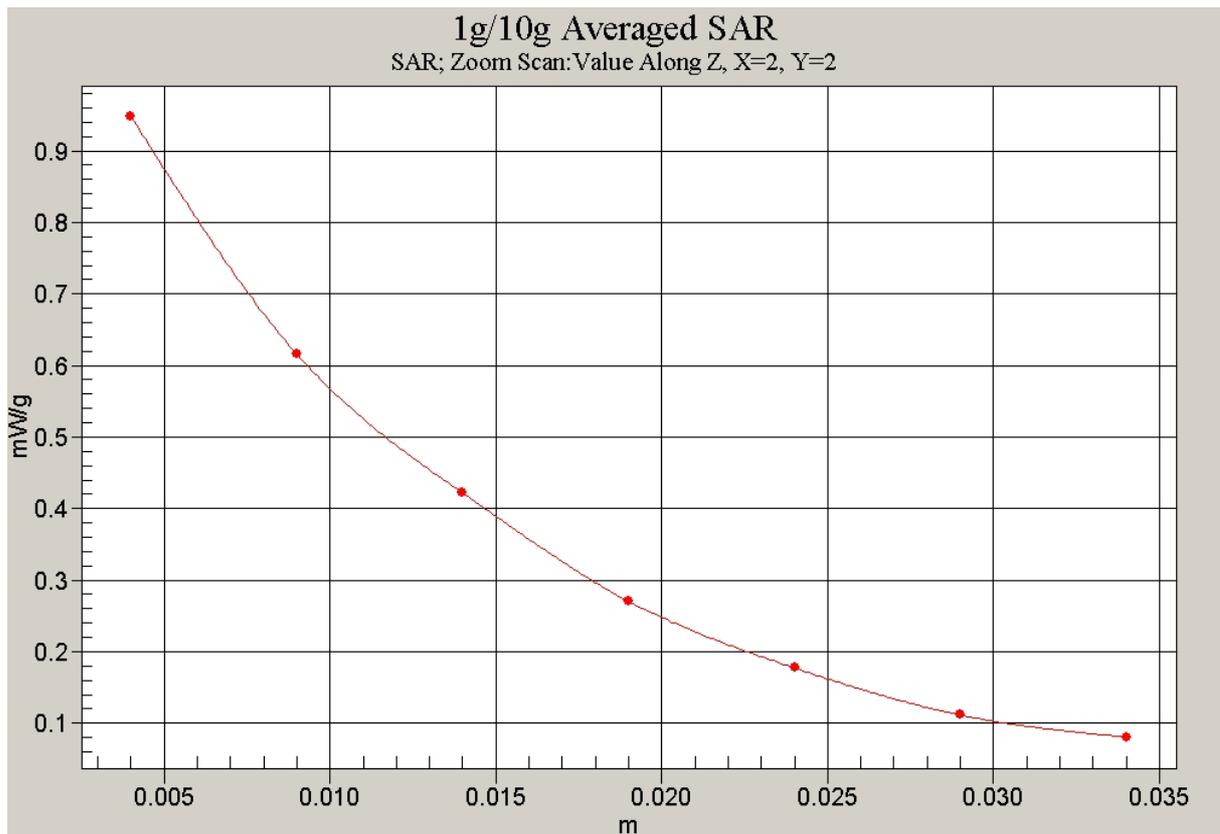


Fig.84 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 2-antenna folded)

EV-DO REV.A 1900 Test Position 3 with HP Laptop-antenna folded

Date/Time: 2006-11-14 7:24:00

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 3/Area Scan (81x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.106 mW/g

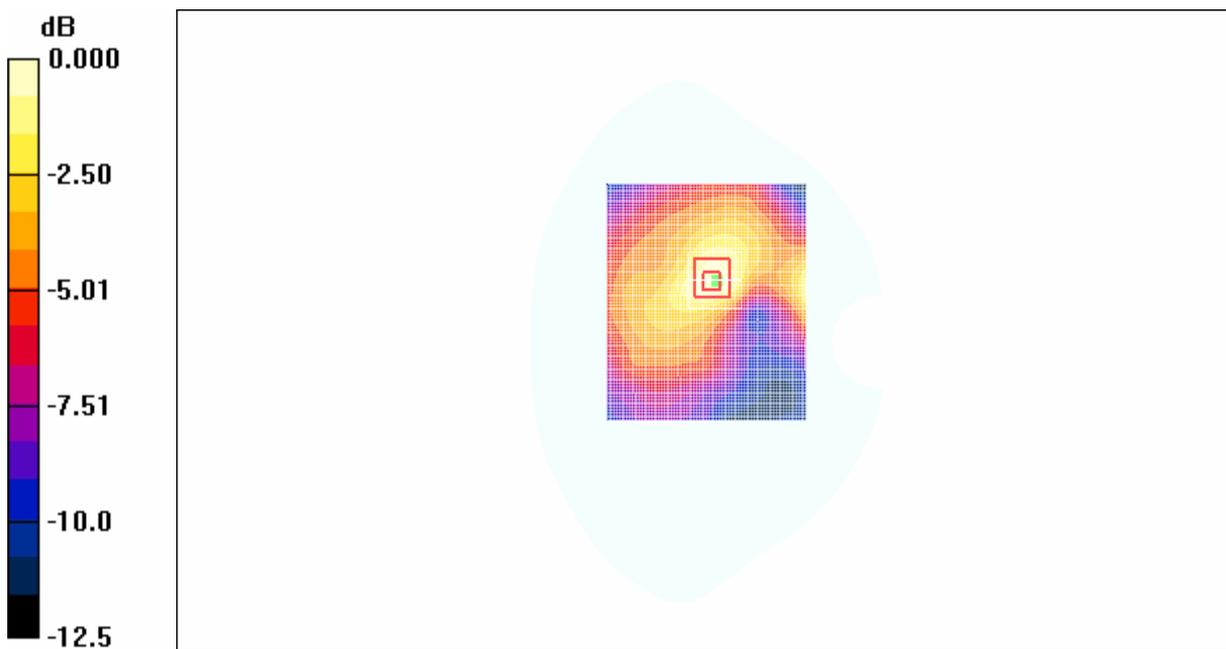
Test Position 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.68 V/m; Power Drift = -0.200 dB

Peak SAR (extrapolated) = 0.143 W/kg

SAR(1 g) = 0.096 mW/g; SAR(10 g) = 0.060 mW/g

Maximum value of SAR (measured) = 0.104 mW/g



0 dB = 0.104mW/g

Fig.85 EV-DO REV.A 1900 CH600 Test Position 3-antenna folded

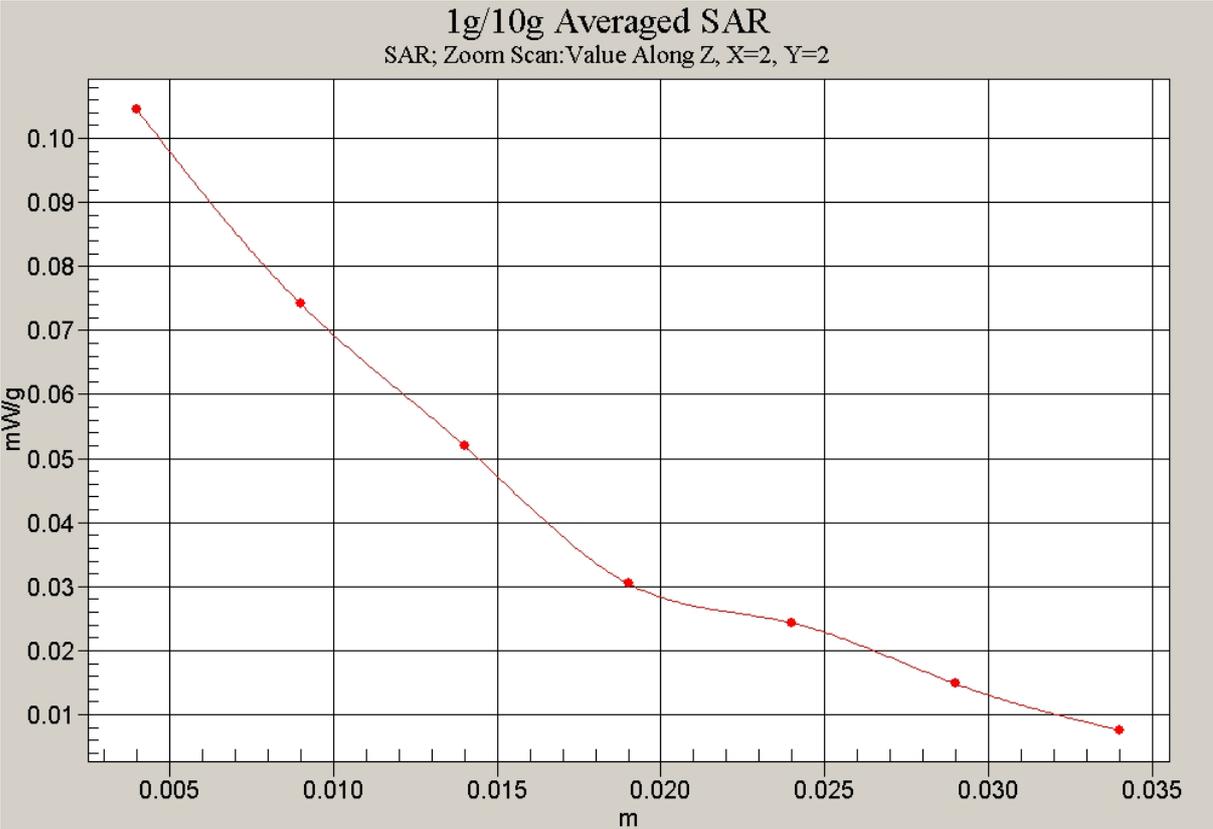


Fig.86 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 3-antenna folded)

EV-DO REV.A 1900 Test Position 4 with HP Laptop-antenna folded

Date/Time: 2006-11-14 10:34:10

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 4/Area Scan (81x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.273 mW/g

Test Position 4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.56 V/m; Power Drift = -0.175 dB

Peak SAR (extrapolated) = 0.494 W/kg

SAR(1 g) = 0.291 mW/g; SAR(10 g) = 0.176 mW/g

Maximum value of SAR (measured) = 0.315 mW/g

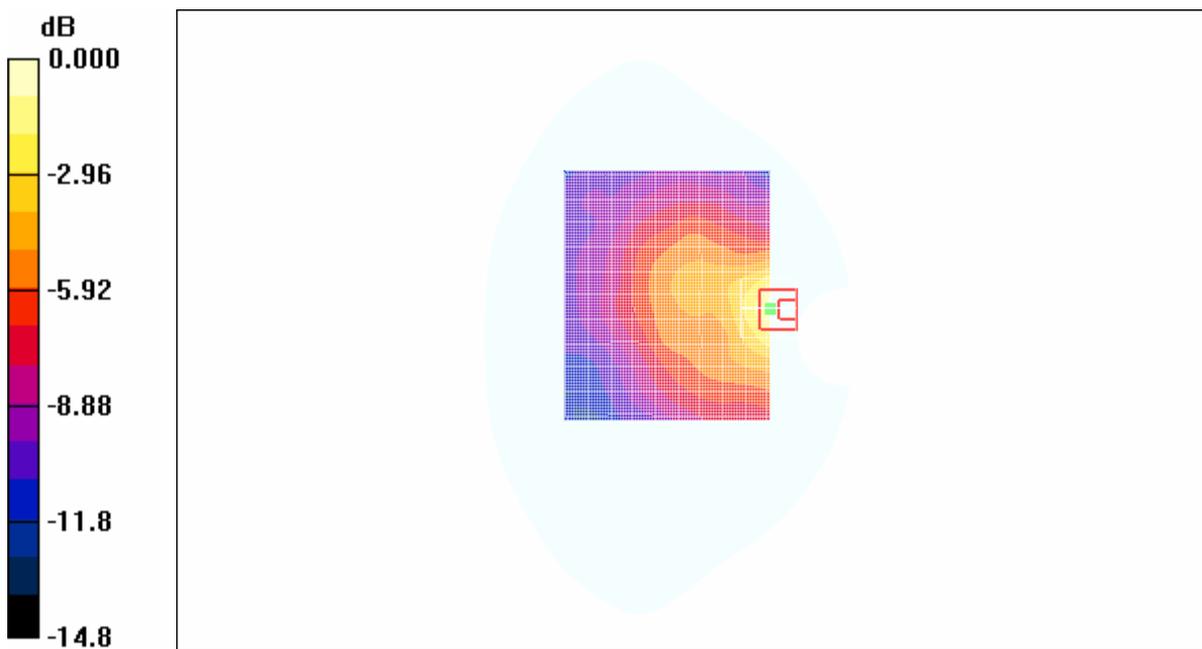


Fig. 87 EV-DO REV.A 1900 CH600 Test Position 4-antenna folded

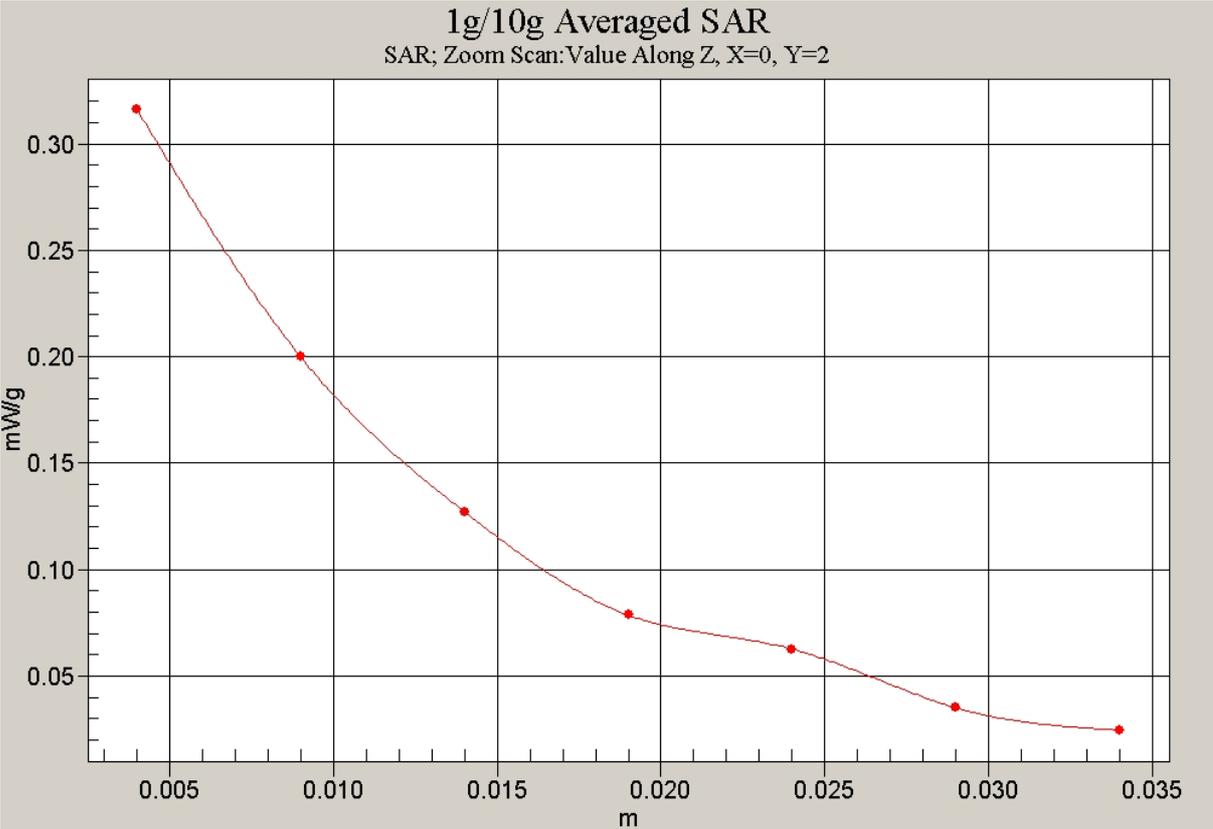


Fig.88 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 4-antenna folded)

EV-DO REV.A 1900 Test Position 5 with HP Laptop-antenna folded

Date/Time: 2006-11-14 8:15:42

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 5/Area Scan (81x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.772 mW/g

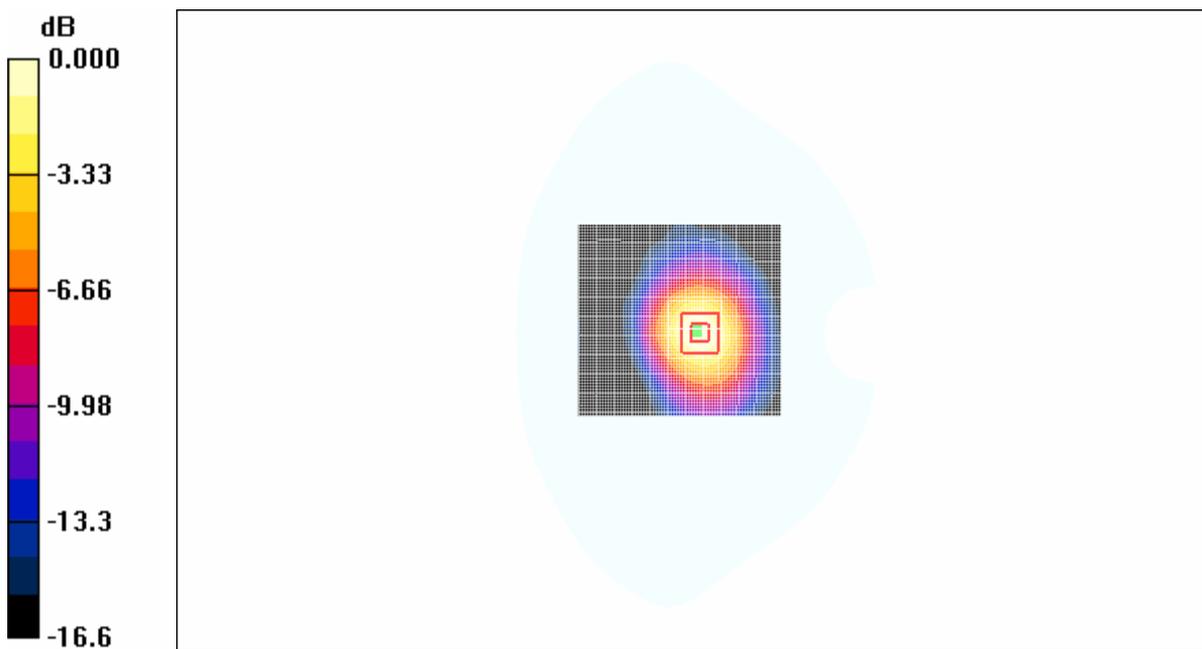
Test Position 5/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.1 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 1.15 W/kg

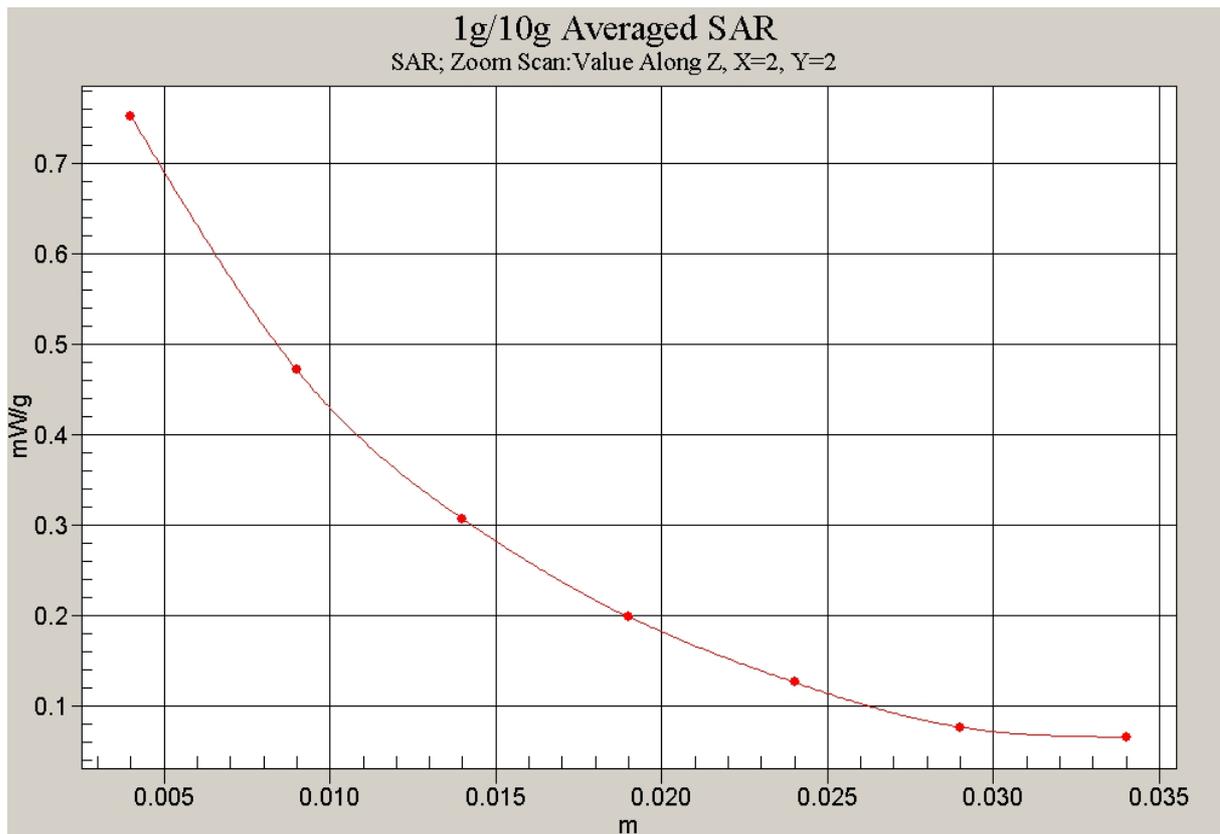
SAR(1 g) = 0.697 mW/g; SAR(10 g) = 0.408 mW/g

Maximum value of SAR (measured) = 0.752 mW/g



0 dB = 0.752mW/g

Fig. 89 EV-DO REV.A 1900 CH600 Test Position 5-antenna folded



**Fig.90 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 5-antenna folded)**

EV-DO REV.A 1900 Test Position 1 with HP Laptop-antenna unfolded

Date/Time: 2006-11-14 8:34:31

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 1/Area Scan (71x71x1): Measurement grid: dx=10mm, dy=10mm

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

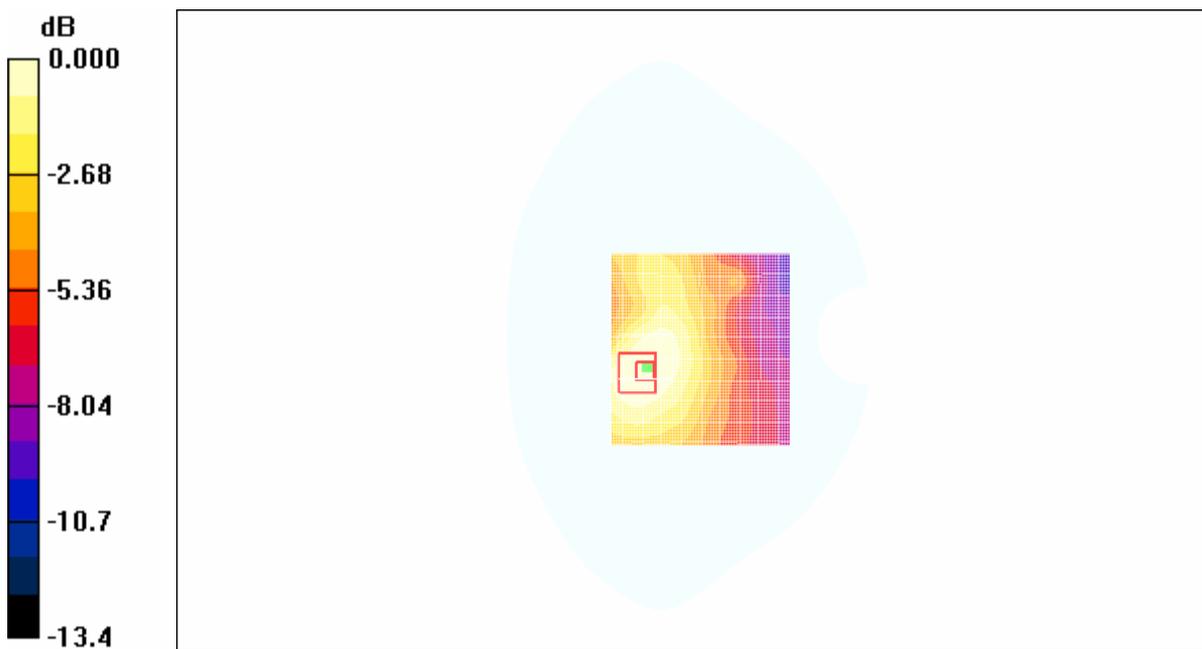
Test Position 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.19 V/m; Power Drift = 0.157 dB

Peak SAR (extrapolated) = 0.129 W/kg

SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.053 mW/g

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



0 dB = 0.083mW/g

Fig. 91 EV-DO REV.A 1900 CH600 Test Position 1-antenna unfolded

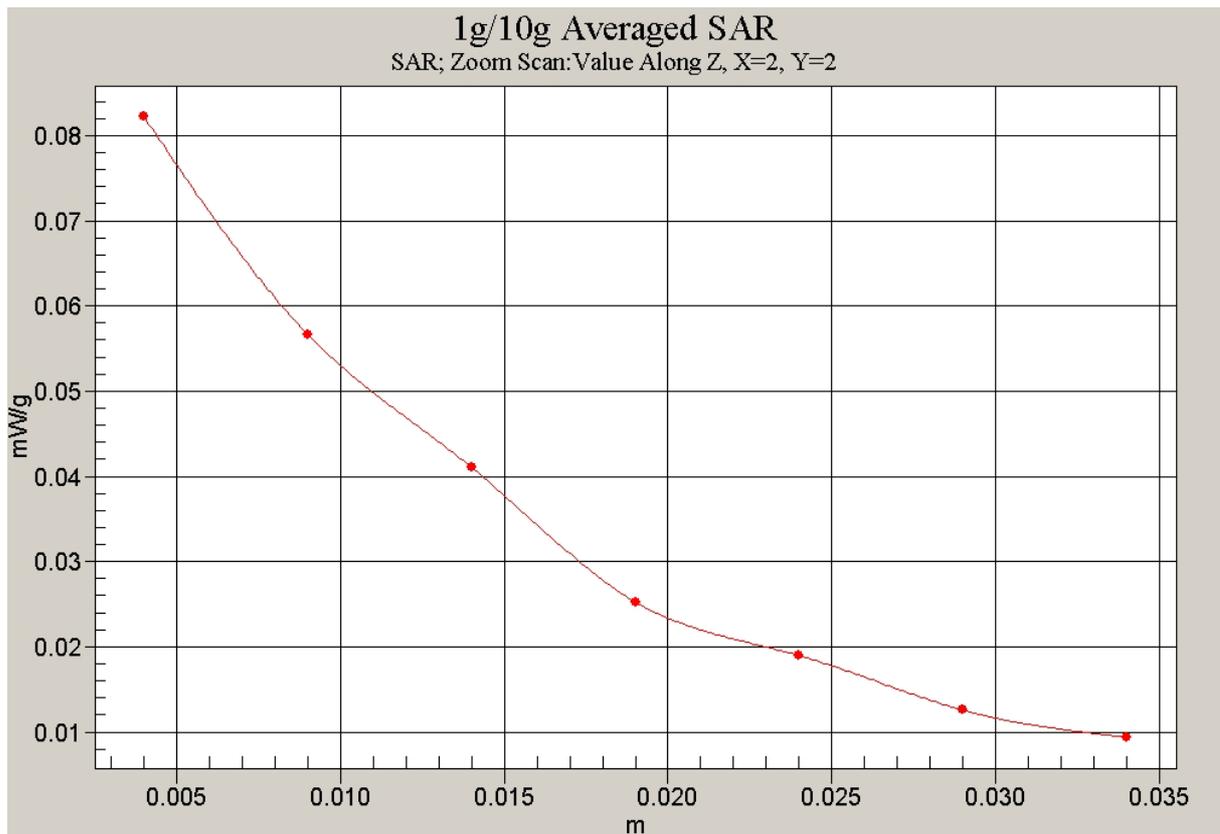


Fig.92 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 1-antenna unfolded)

EV-DO REV.A 1900 Test Position 2 with HP Laptop-antenna folded

Date/Time: 2006-11-14 9:41:37

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 2/Area Scan (71x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.582 mW/g

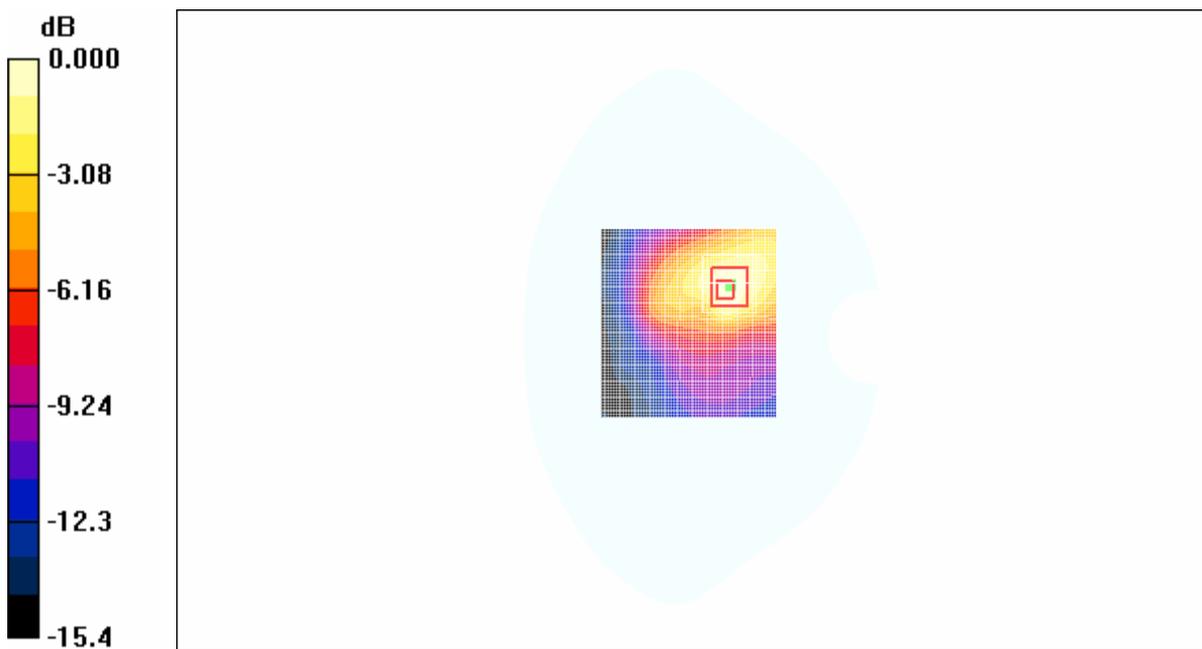
Test Position 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.22 V/m; Power Drift = 0.176 dB

Peak SAR (extrapolated) = 0.951 W/kg

SAR(1 g) = 0.561 mW/g; SAR(10 g) = 0.337 mW/g

Maximum value of SAR (measured) = 0.586 mW/g



0 dB = 0.586mW/g

Fig. 93 EV-DO REV.A 1900 CH600 Test Position 2-antenna unfolded

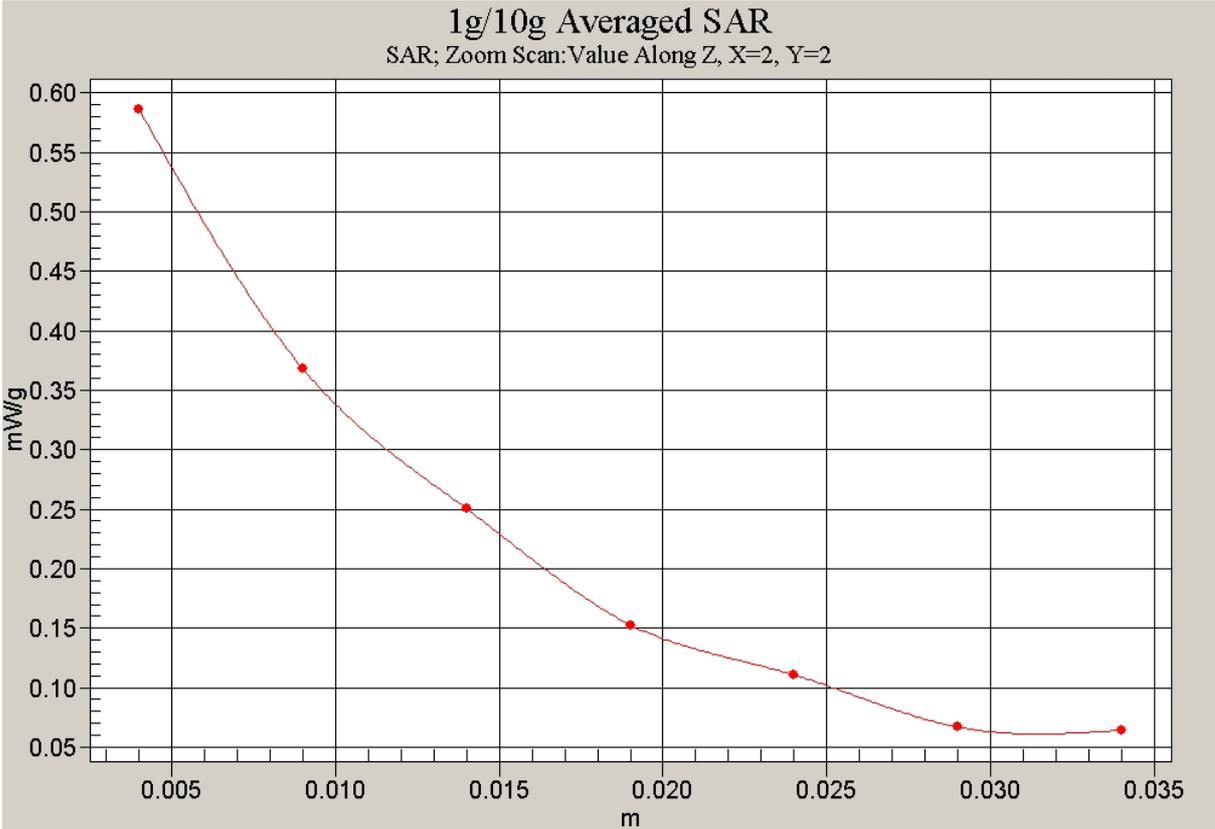


Fig.94 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 2-antenna unfolded)

EV-DO REV.A 1900 Test Position 3 with HP Laptop-antenna unfolded

Date/Time: 2006-11-14 7:39:52

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 3/Area Scan (81x91x1): Measurement grid: dx=10mm, dy=10mm

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

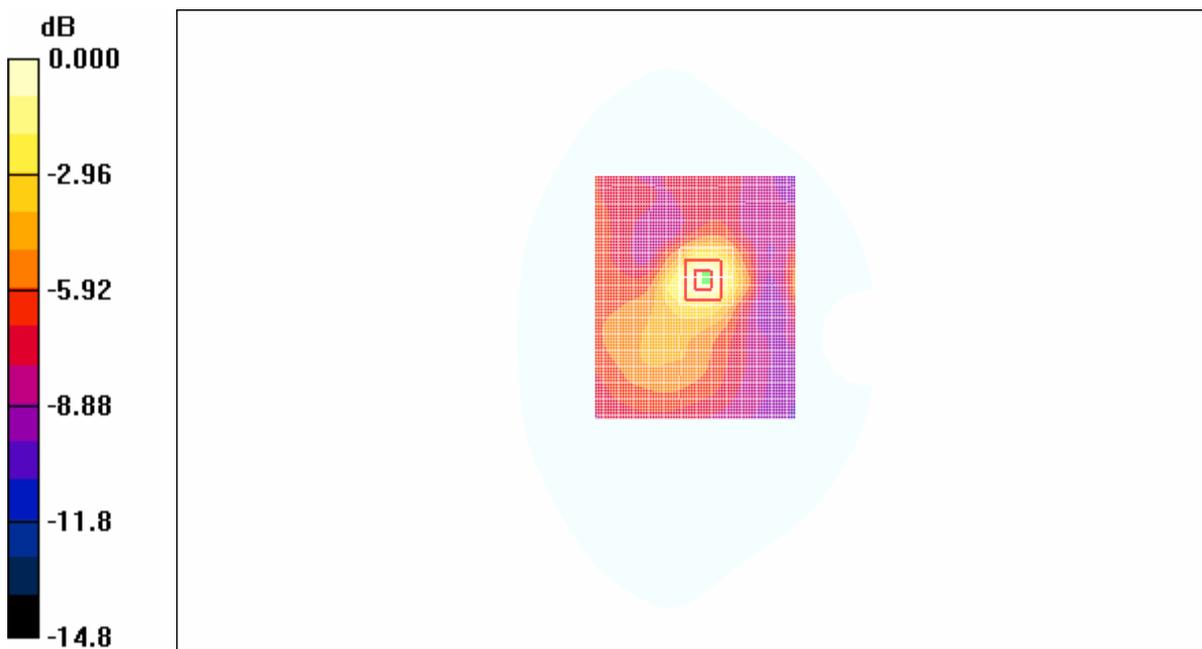
Test Position 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.53 V/m; Power Drift = 0.082 dB

Peak SAR (extrapolated) = 0.286 W/kg

SAR(1 g) = 0.177 mW/g; SAR(10 g) = 0.105 mW/g

Maximum value of SAR (measured) = 0.193 mW/g



0 dB = 0.193mW/g

Fig. 95 EV-DO REV.A 1900 CH600 Test Position 3-antenna unfolded

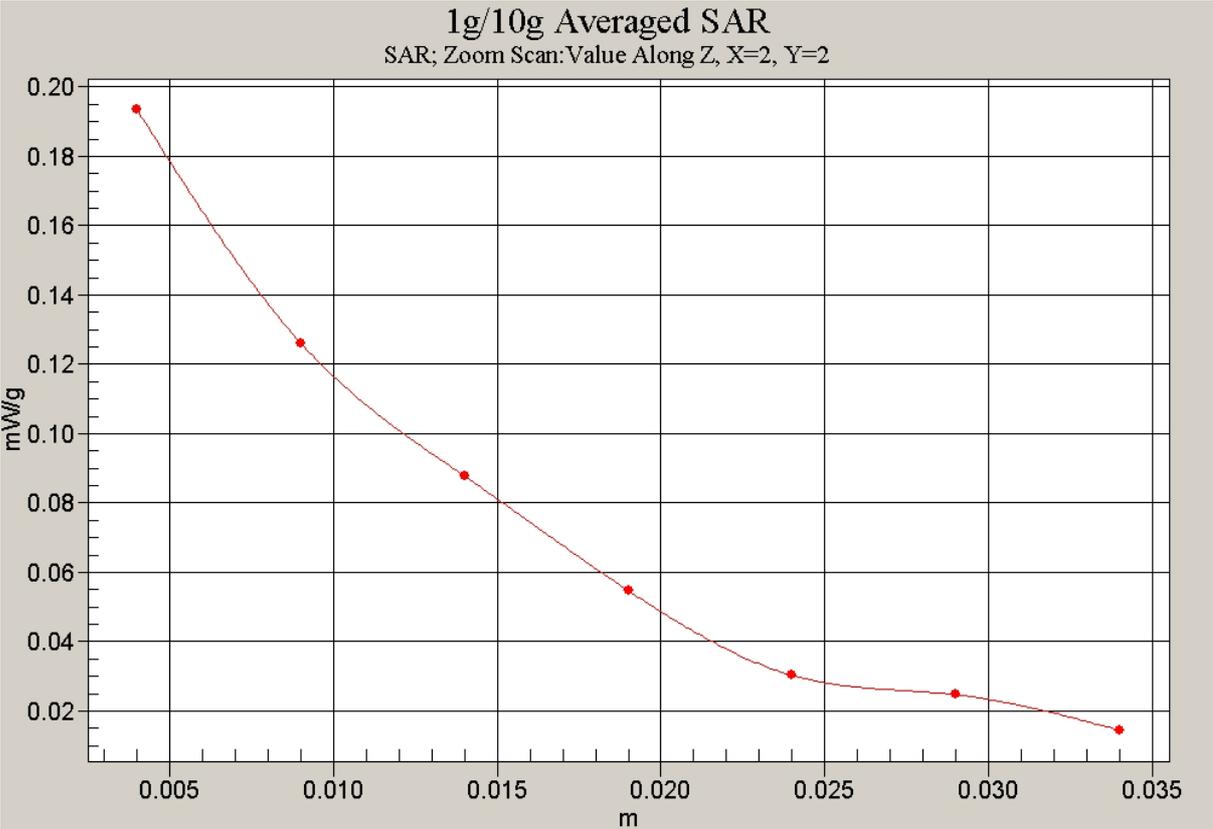


Fig.96 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 3-antenna unfolded)

EV-DO REV.A 1900 Test Position 4 with HP Laptop-antenna unfolded

Date/Time: 2006-11-14 10:19:07

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 4/Area Scan (81x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.642 mW/g

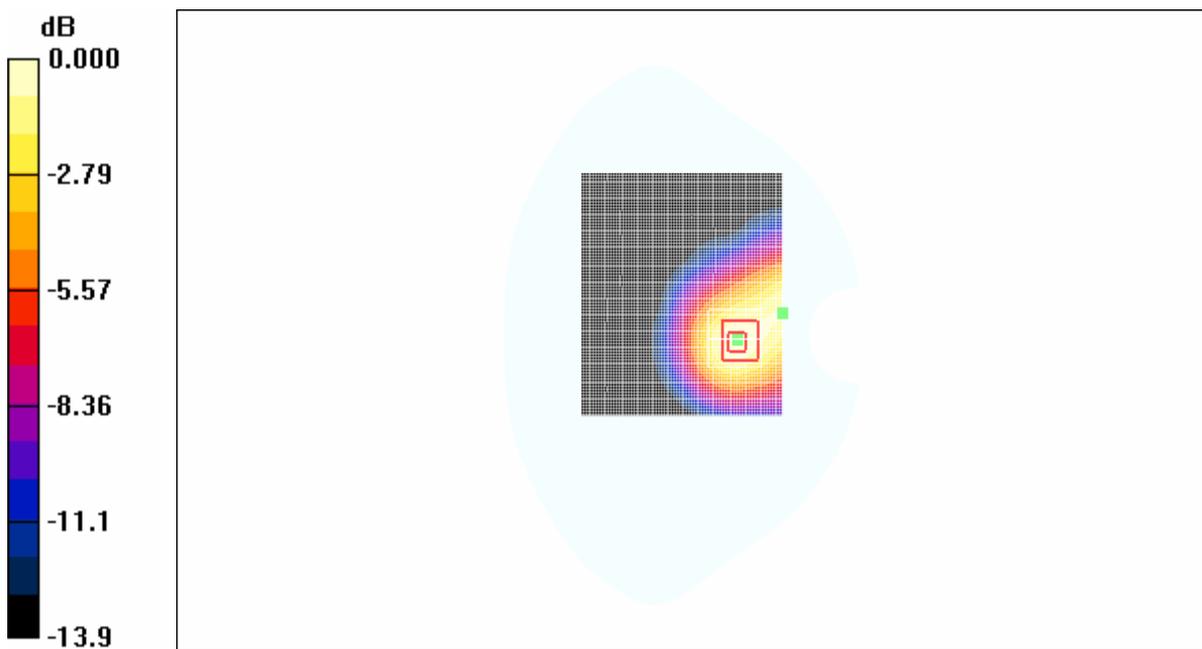
Test Position 4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.83 V/m; Power Drift = -0.129 dB

Peak SAR (extrapolated) = 0.919 W/kg

SAR(1 g) = 0.577 mW/g; SAR(10 g) = 0.358 mW/g

Maximum value of SAR (measured) = 0.624 mW/g



0 dB = 0.624mW/g

Fig. 97 EV-DO REV.A 1900 CH600 Test Position 4-antenna unfolded

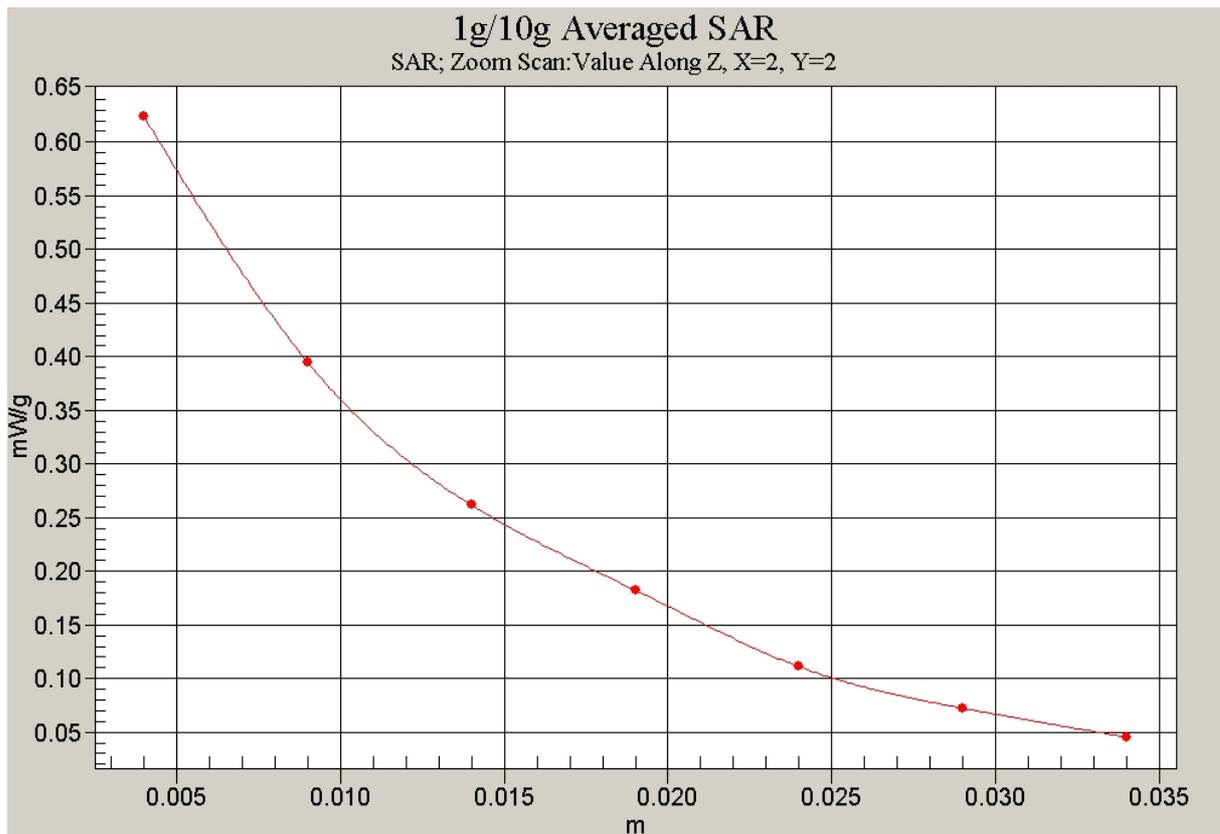


Fig.98 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 4-antenna unfolded)

EV-DO REV.A 1900 Test Position 5 with HP Laptop-antenna unfolded

Date/Time: 2006-11-14 7:57:09

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 5/Area Scan (71x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.945 mW/g

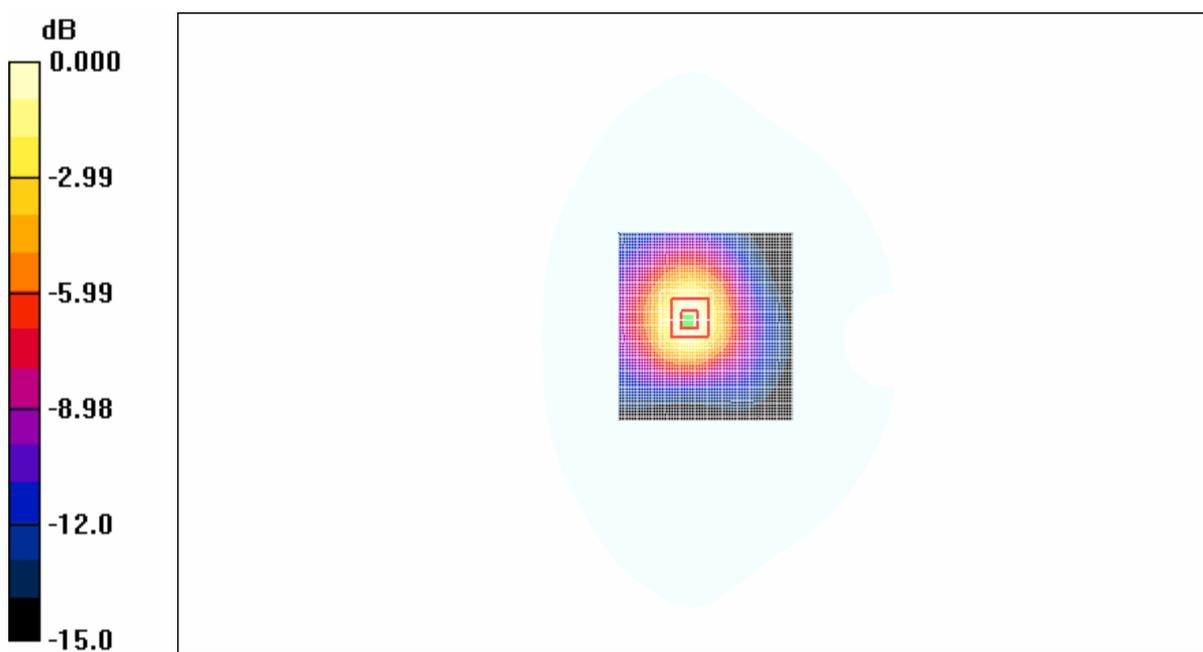
Test Position 5/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.6 V/m; Power Drift = -0.175 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.819 mW/g; SAR(10 g) = 0.482 mW/g

Maximum value of SAR (measured) = 0.890 mW/g



0 dB = 0.890mW/g

Fig. 99 EV-DO REV.A 1900 CH600 Test Position 5-antenna unfolded

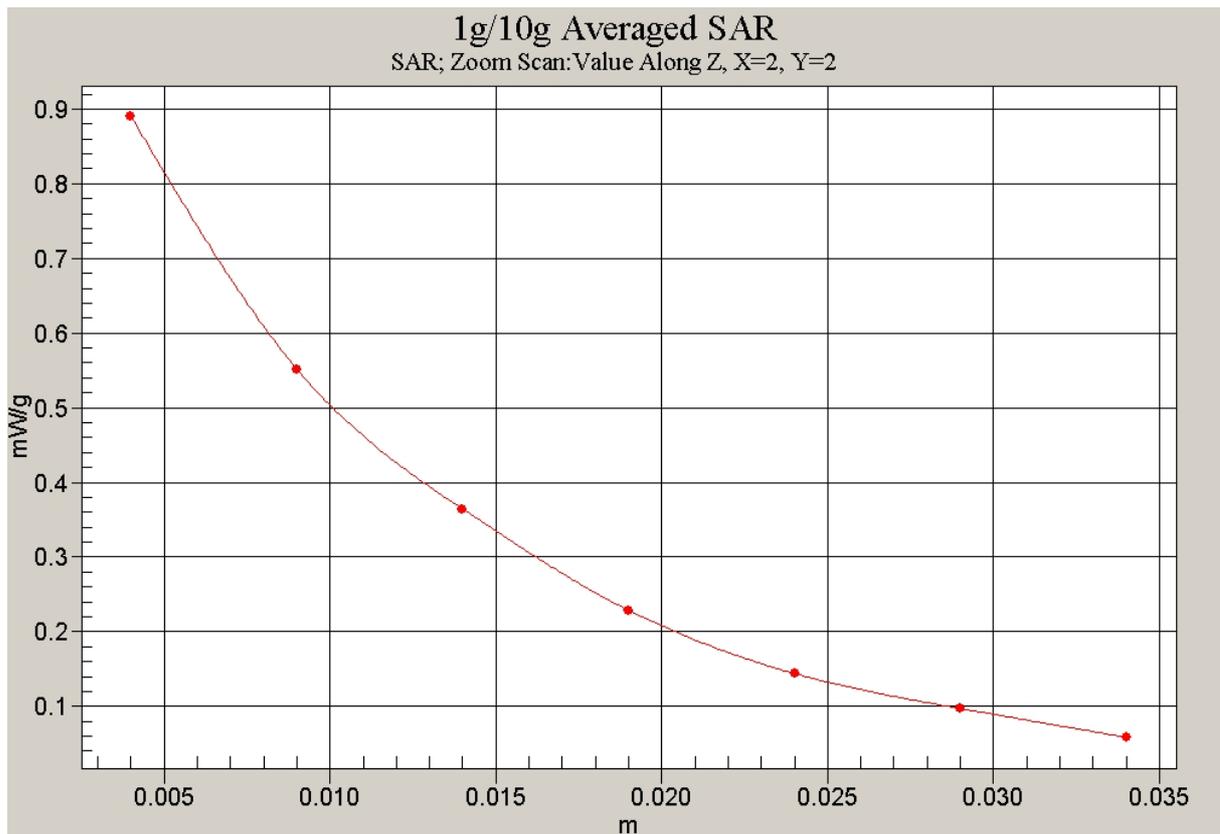


Fig.100 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 5-antenna unfolded)

EV-DO REV.A 1900 Test Position 1 with IBM Laptop-antenna folded

Date/Time: 2006-11-14 13:07:31

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 1/Area Scan (71x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.722 mW/g

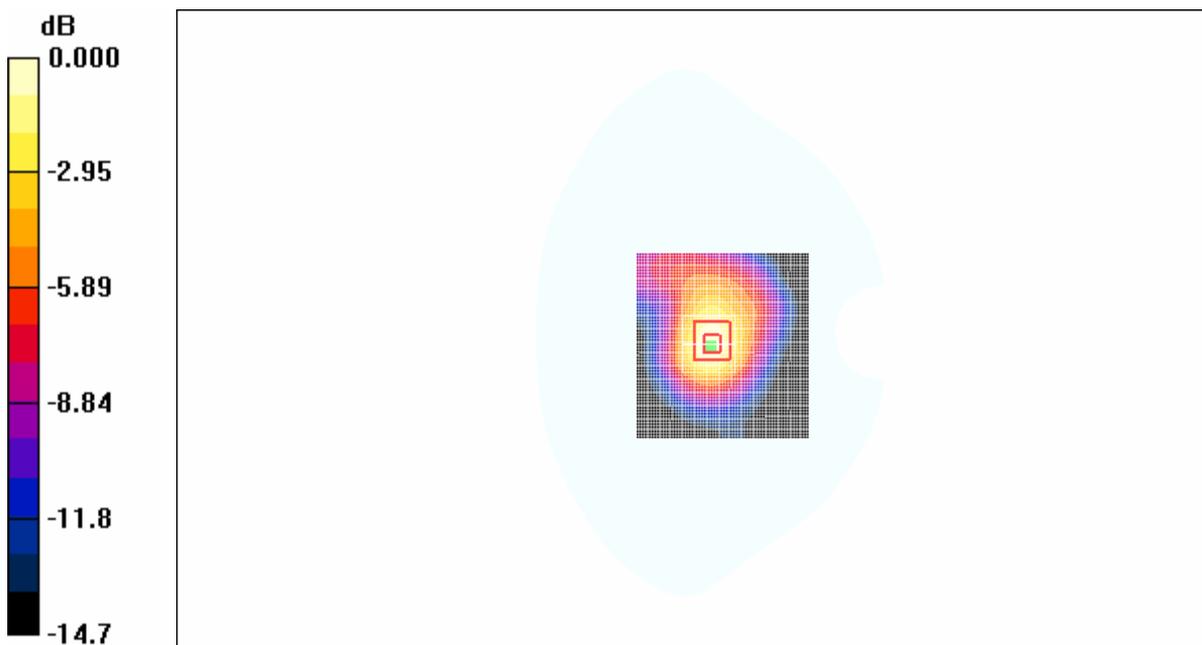
Test Position 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.6 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.656 mW/g; SAR(10 g) = 0.387 mW/g

Maximum value of SAR (measured) = 0.717 mW/g



0 dB = 0.717mW/g

Fig. 101 EV-DO REV.A 1900 CH600 Test Position 1-antenna folded

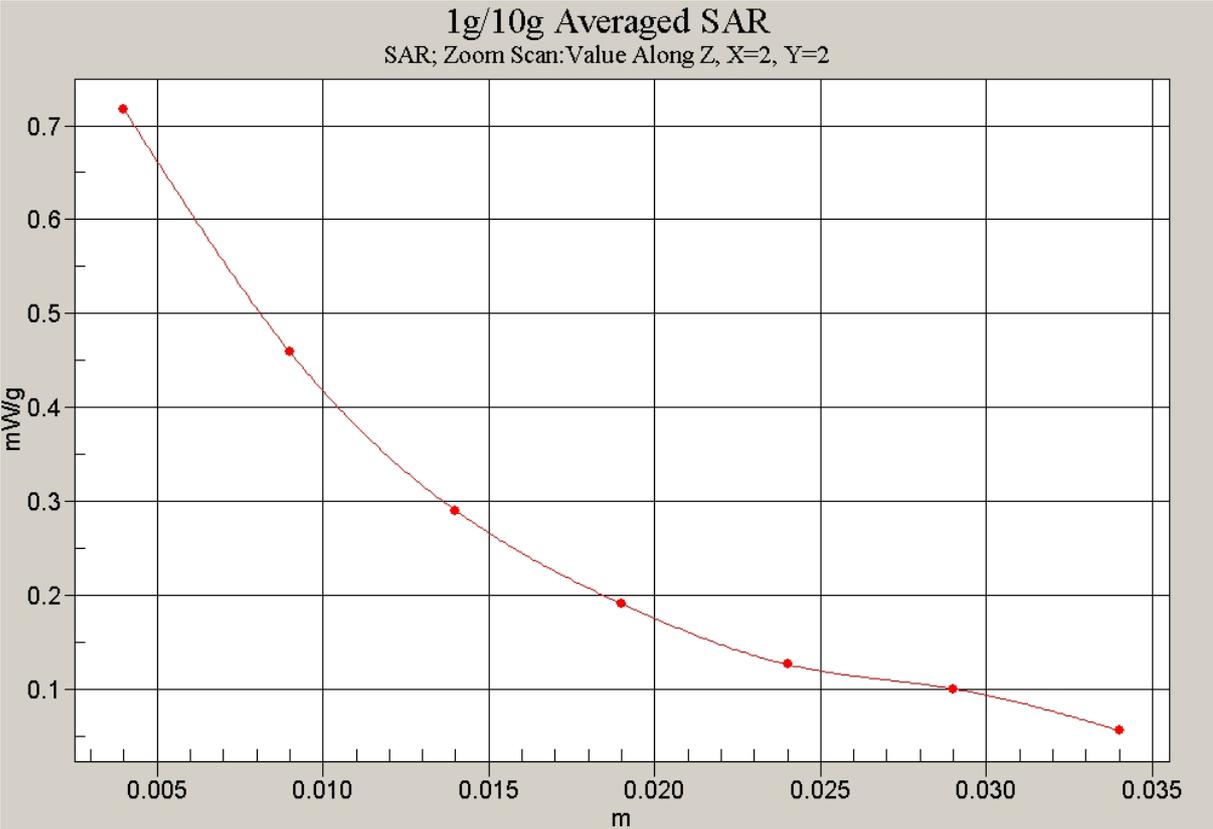


Fig.102 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 1-antenna folded)

EV-DO REV.A 1900 Test Position 2 with IBM Laptop-antenna folded

Date/Time: 2006-11-14 14:11:44

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 2/Area Scan (71x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.08 mW/g

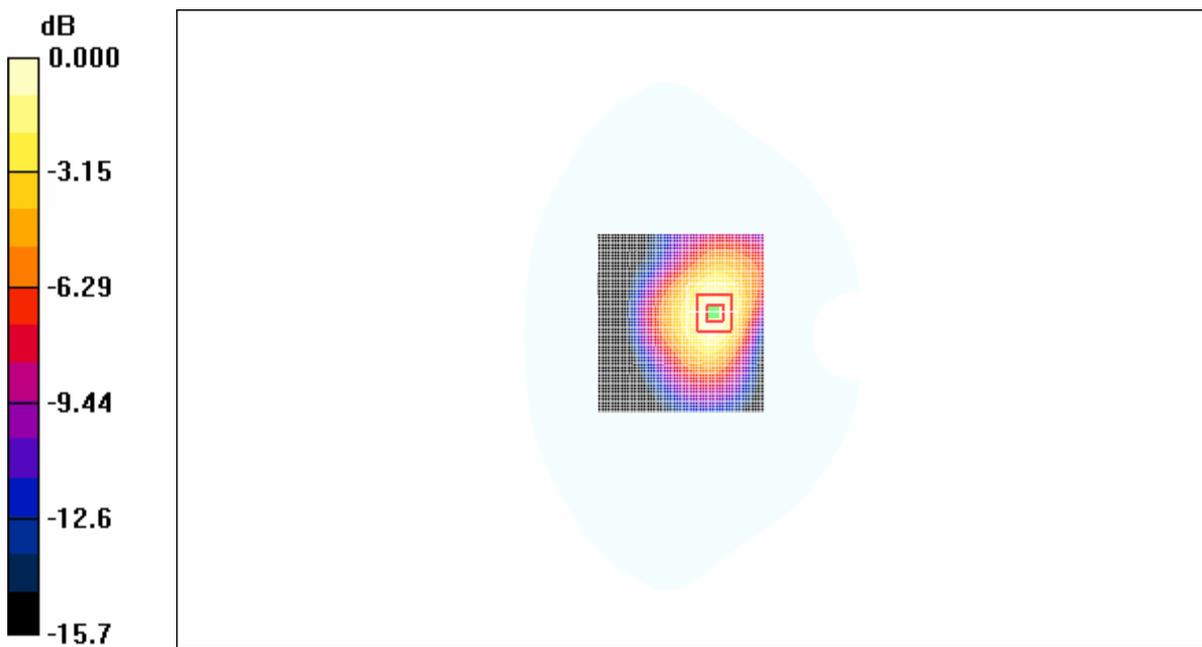
Test Position 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.3 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.983 mW/g; SAR(10 g) = 0.599 mW/g

Maximum value of SAR (measured) = 1.06 mW/g



0 dB = 1.06mW/g

Fig. 103 EV-DO REV.A 1900 CH600 Test Position 2-antenna folded

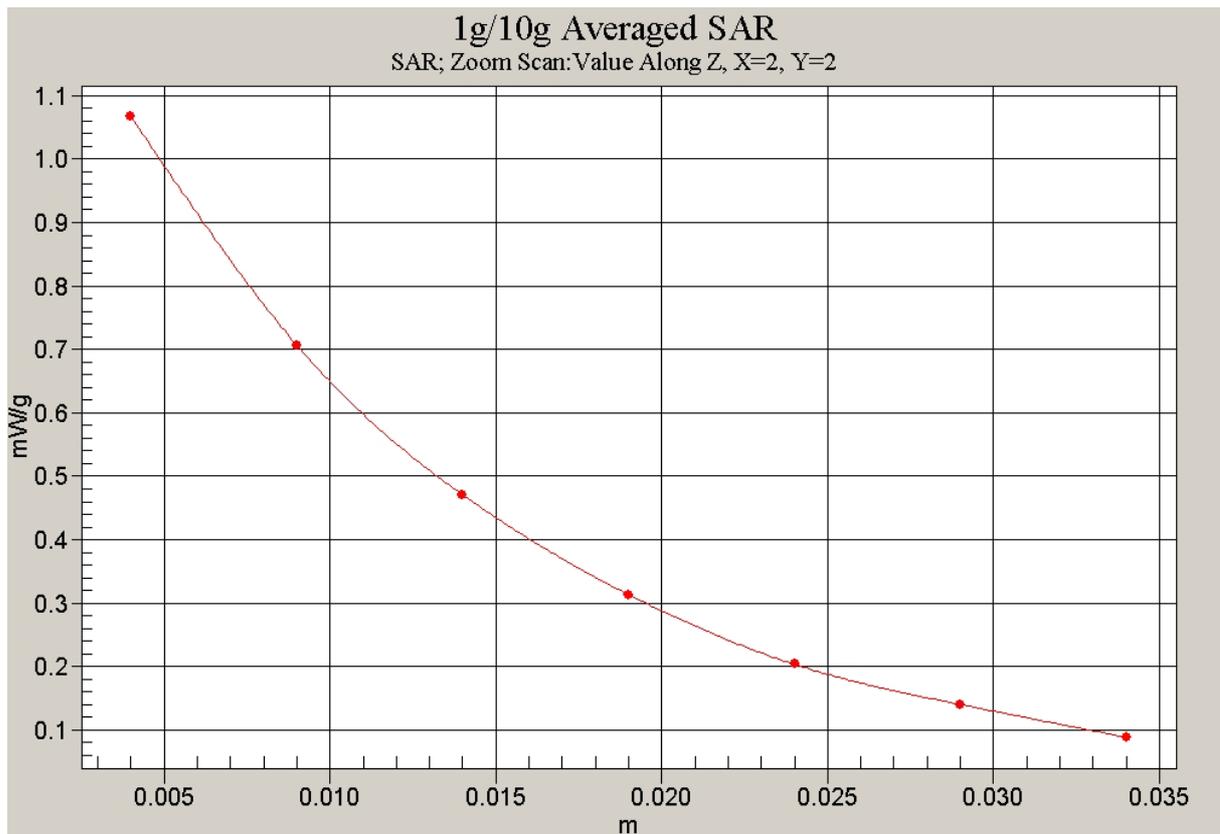


Fig.104 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 2-antenna folded)

EV-DO REV.A 1900 Test Position 3 with IBM Laptop-antenna folded

Date/Time: 2006-11-14 15:14:42

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 3/Area Scan (81x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.074 mW/g

Test Position 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.67 V/m; Power Drift = 0.079 dB

Peak SAR (extrapolated) = 0.124 W/kg

SAR(1 g) = 0.072 mW/g; SAR(10 g) = 0.048 mW/g

Maximum value of SAR (measured) = 0.075 mW/g



0 dB = 0.075mW/g

Fig. 105 EV-DO REV.A 1900 CH600 Test Position 3-antenna folded

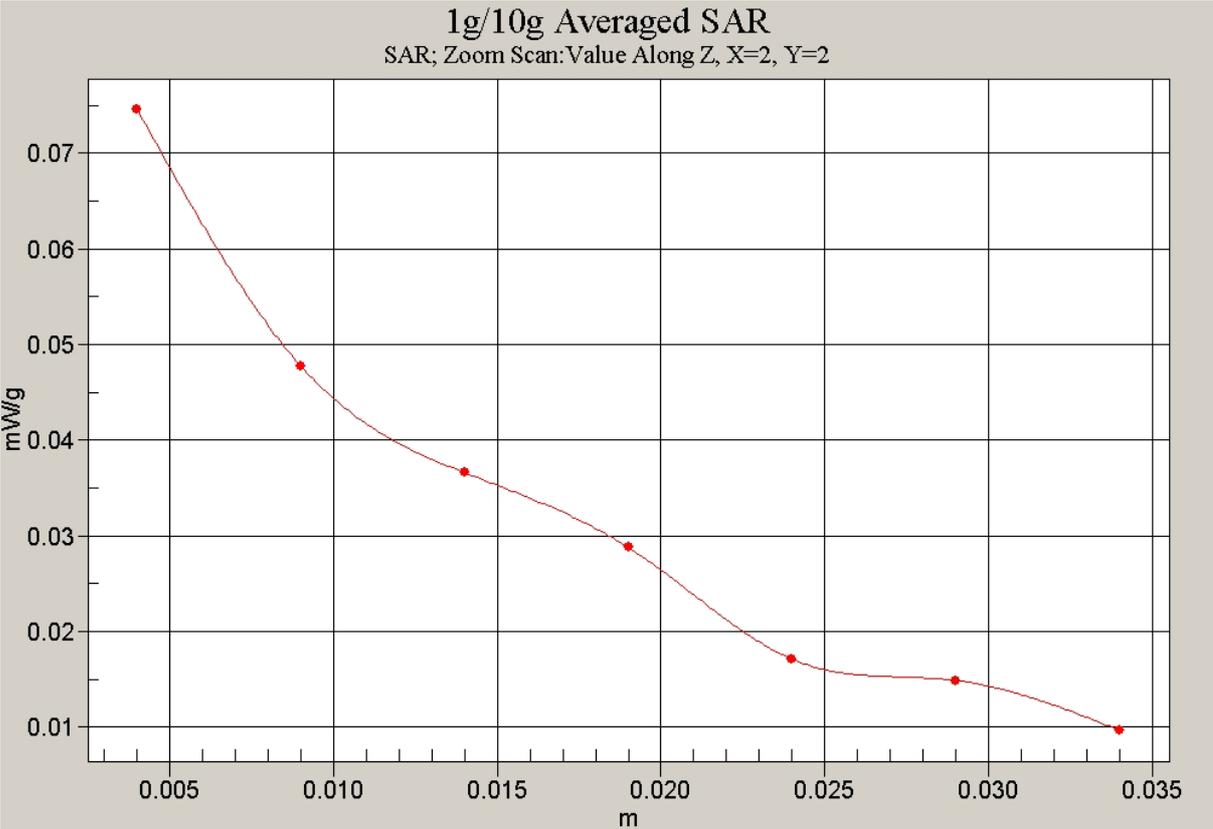


Fig.106 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 3-antenna folded)

EV-DO REV.A 1900 Test Position 4 with IBM Laptop-antenna folded

Date/Time: 2006-11-14 16:04:20

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 4/Area Scan (81x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.446 mW/g

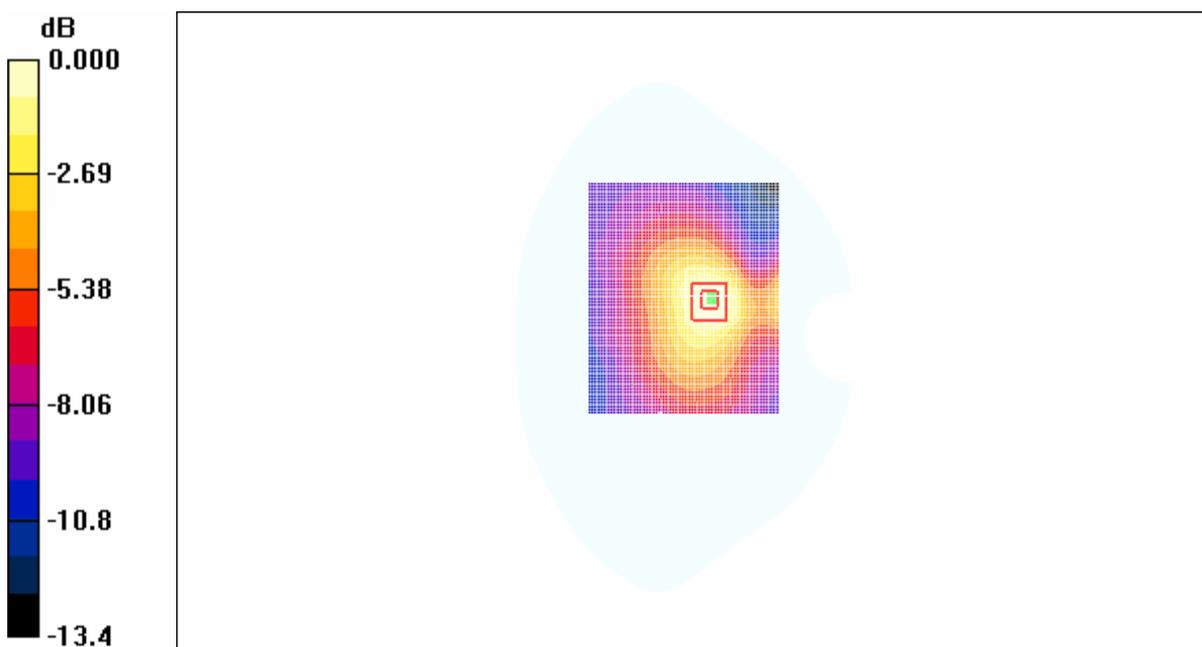
Test Position 4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.0 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 0.643 W/kg

SAR(1 g) = 0.405 mW/g; SAR(10 g) = 0.258 mW/g

Maximum value of SAR (measured) = 0.436 mW/g



0 dB = 0.436mW/g

Fig. 107 EV-DO REV.A 1900 CH600 Test Position 4-antenna folded

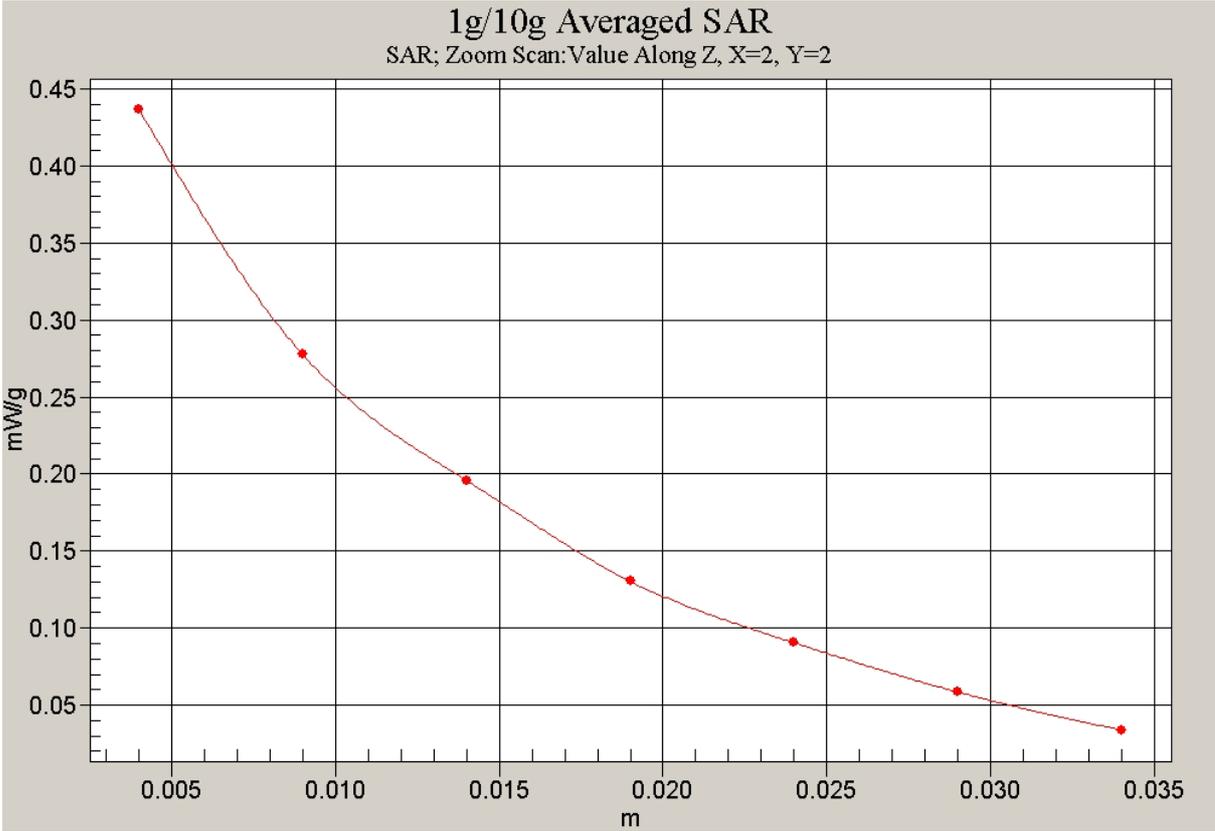


Fig.108 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 4-antenna folded)

EV-DO REV.A 1900 Test Position 5 with IBM Laptop-antenna folded

Date/Time: 2006-11-14 14:56:17

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 5/Area Scan (81x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.922 mW/g

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

Reference Value = 21.9 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.837 mW/g; SAR(10 g) = 0.504 mW/g

Maximum value of SAR (measured) = 0.908 mW/g

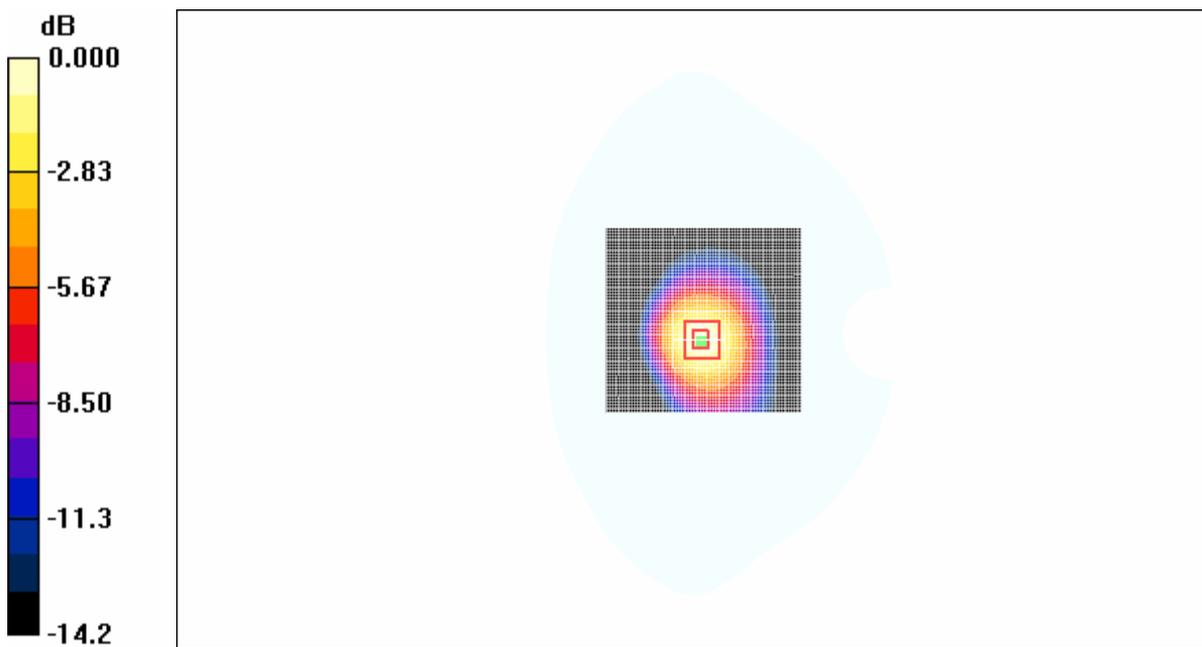


Fig. 109 EV-DO REV.A 1900 CH600 Test Position 5-antenna folded

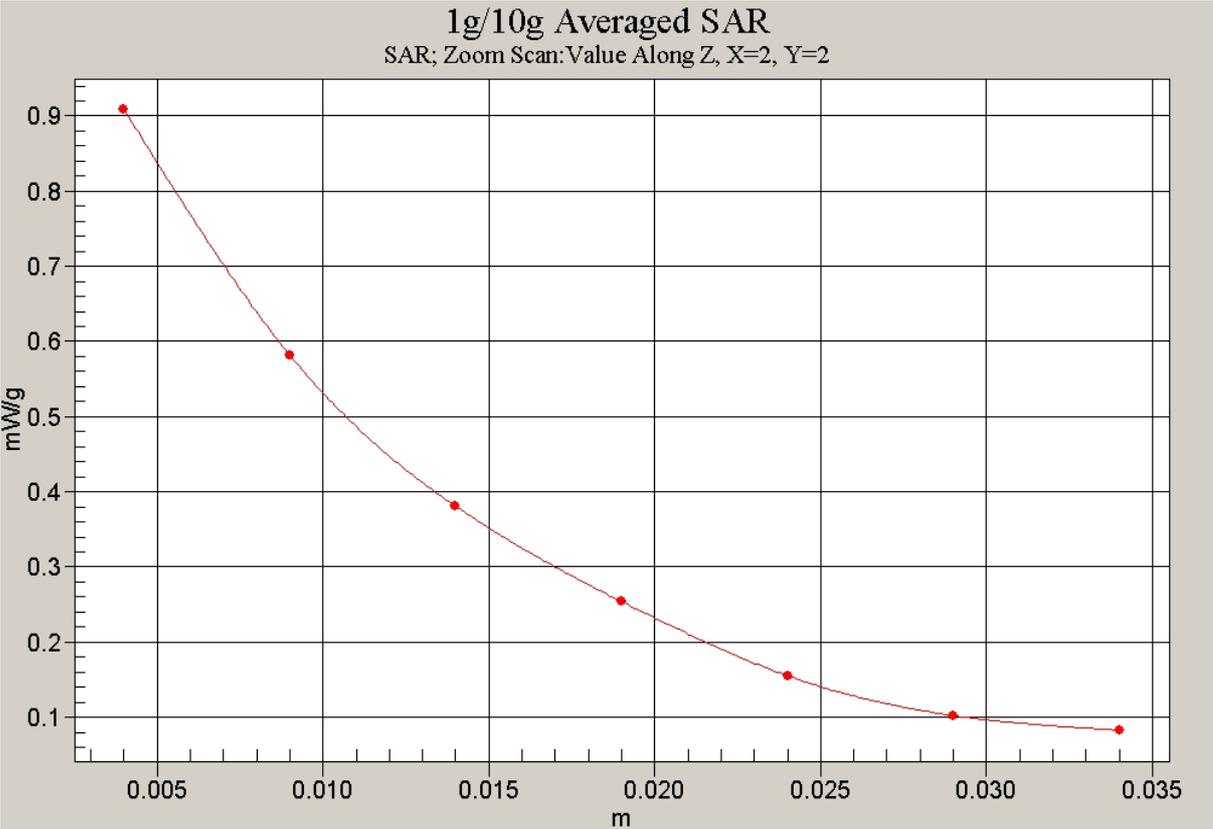


Fig.110 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 5-antenna folded)

EV-DO REV.A 1900 Test Position 1 with IBM Laptop-antenna unfolded

Date/Time: 2006-11-14 12:25:01

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 1/Area Scan (71x71x1): Measurement grid: dx=10mm, dy=10mm

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

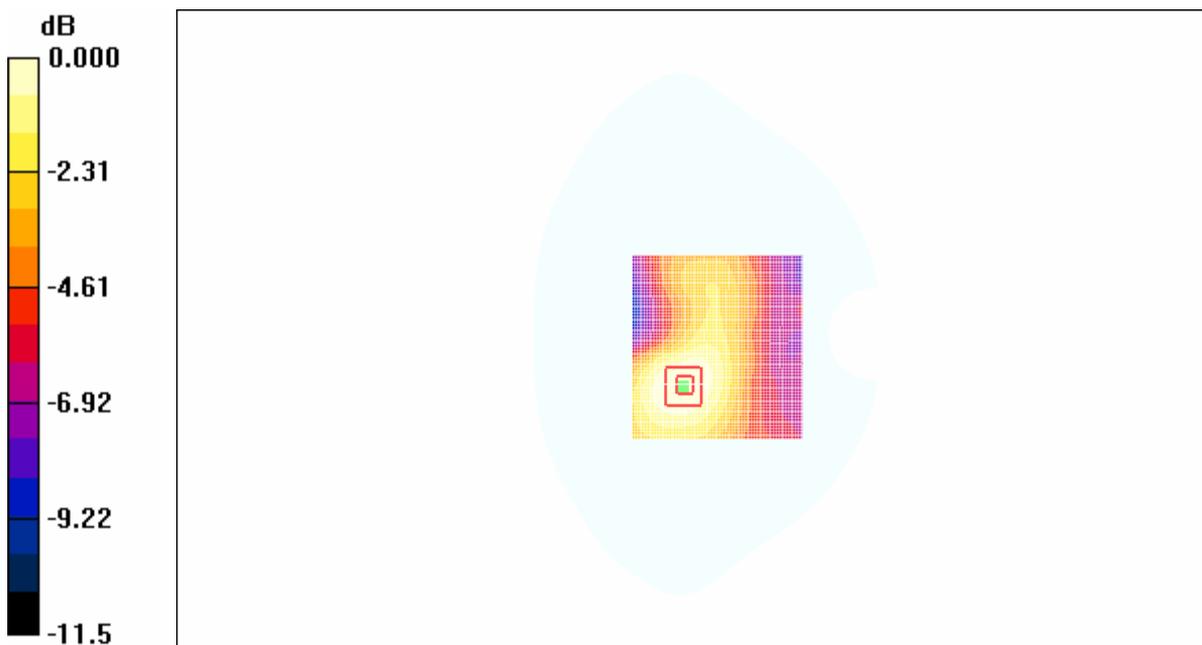
Test Position 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.07 V/m; Power Drift = -0.183 dB

Peak SAR (extrapolated) = 0.136 W/kg

SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.067 mW/g

Maximum value of SAR (measured) = 0.106 mW/g



0 dB = 0.106mW/g

Fig. 111 EV-DO REV.A 1900 CH600 Test Position 1-antenna unfolded

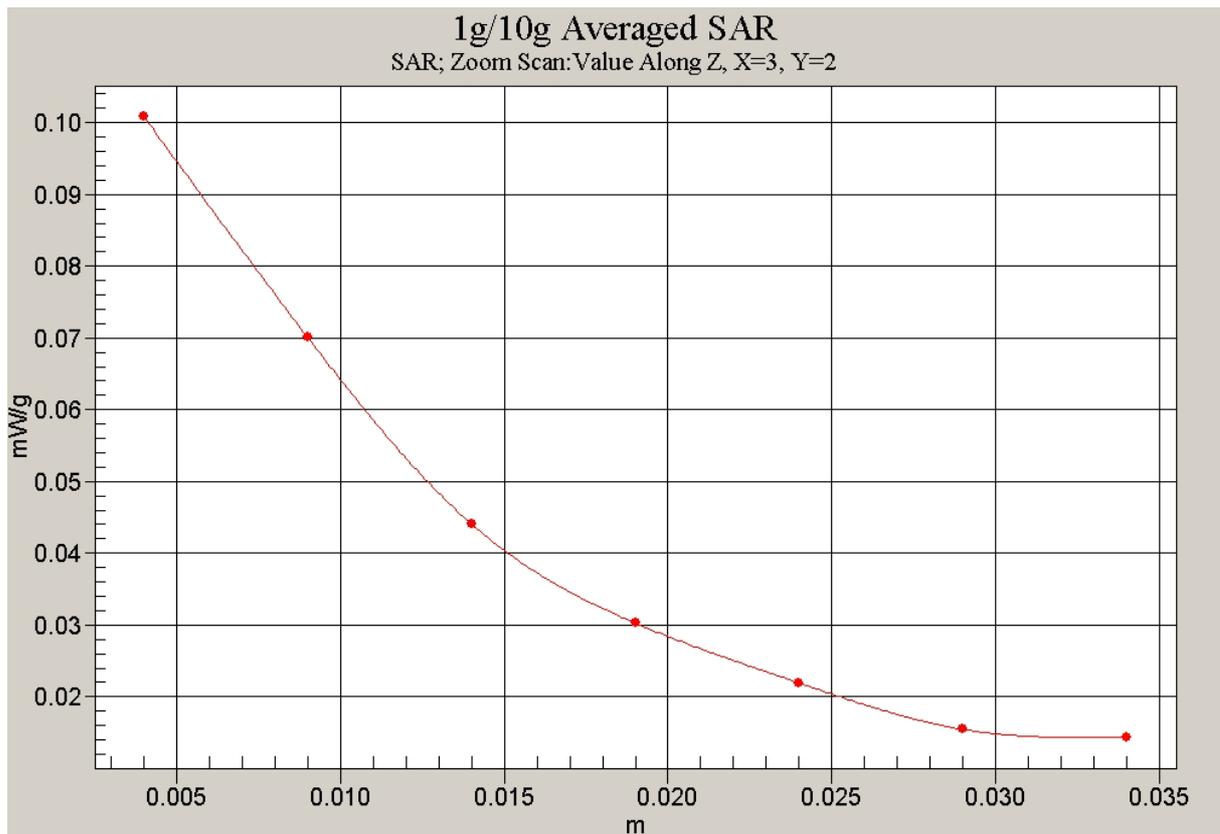


Fig.112 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 1-antenna unfolded)

EV-DO REV.A 1900 Test Position 2 with IBM Laptop-antenna folded

Date/Time: 2006-11-14 13:28:37

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 2/Area Scan (71x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.897 mW/g

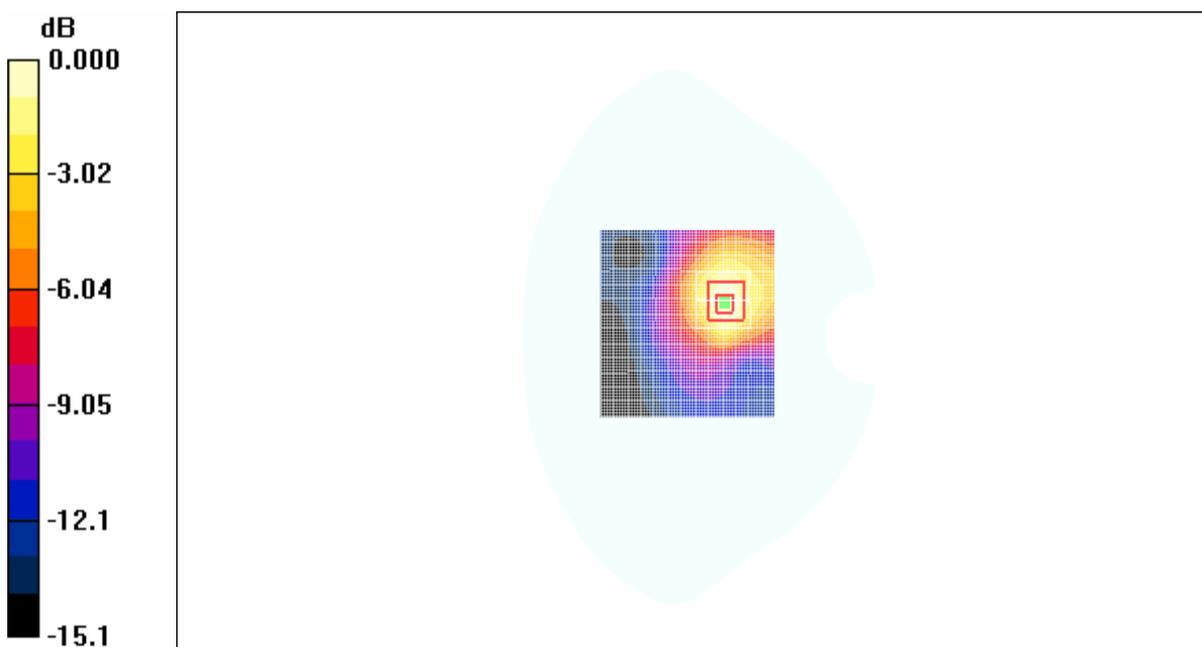
Test Position 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.803 mW/g; SAR(10 g) = 0.476 mW/g

Maximum value of SAR (measured) = 0.872 mW/g



0 dB = 0.872mW/g

Fig. 113 EV-DO REV.A 1900 CH600 Test Position 2-antenna unfolded

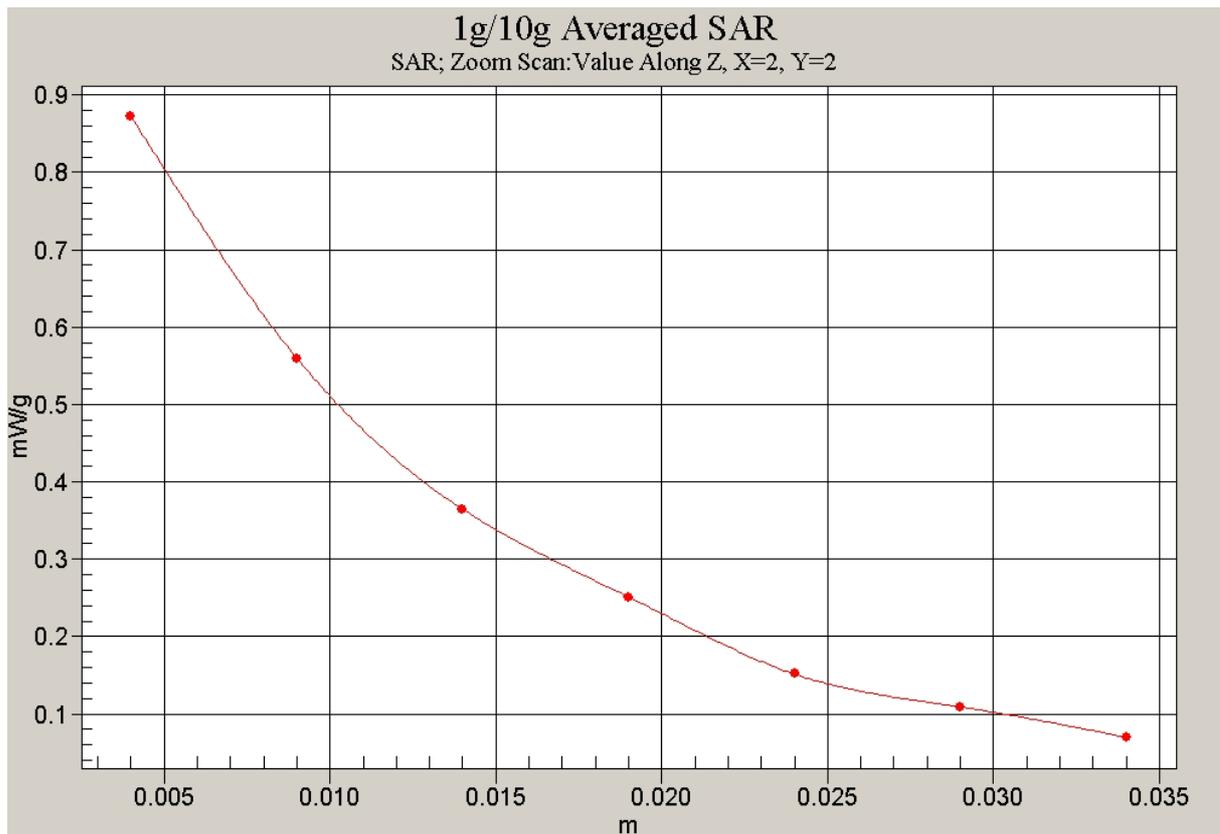


Fig.114 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 2-antenna unfolded)

EV-DO REV.A 1900 Test Position 3 with IBM Laptop-antenna unfolded

Date/Time: 2006-11-14 15:30:26

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 3/Area Scan (81x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.142 mW/g

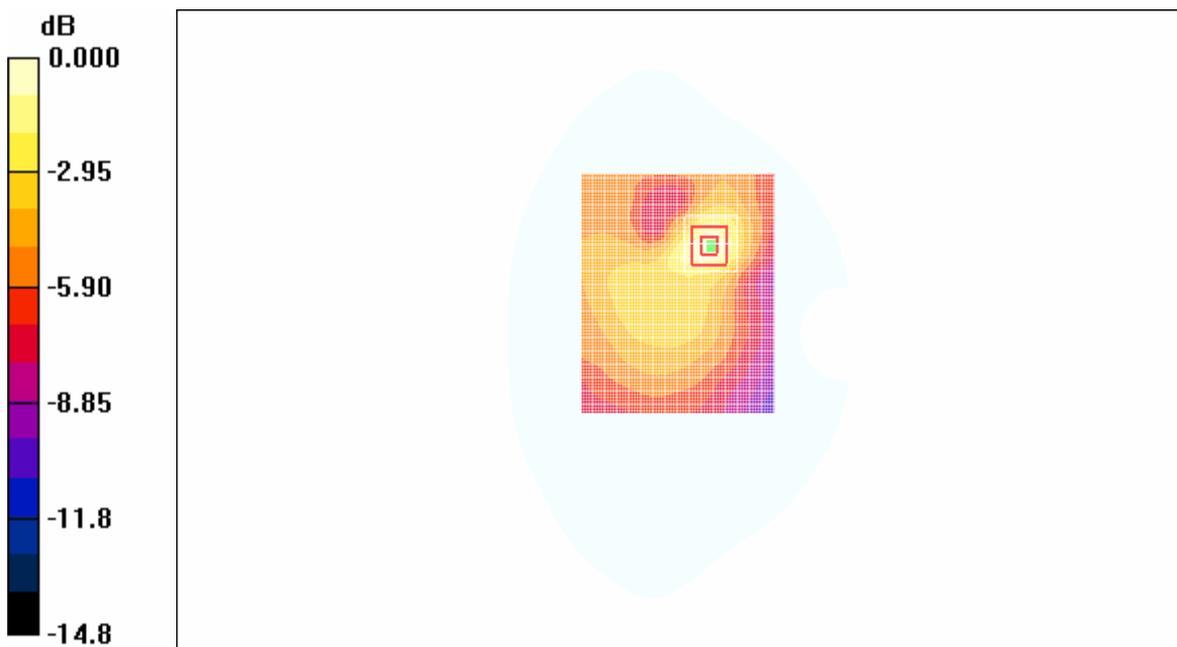
Test Position 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.62 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.204 W/kg

SAR(1 g) = 0.128 mW/g; SAR(10 g) = 0.077 mW/g

Maximum value of SAR (measured) = 0.142 mW/g



0 dB = 0.142mW/g

Fig. 115 EV-DO REV.A 1900 CH600 Test Position 3-antenna unfolded

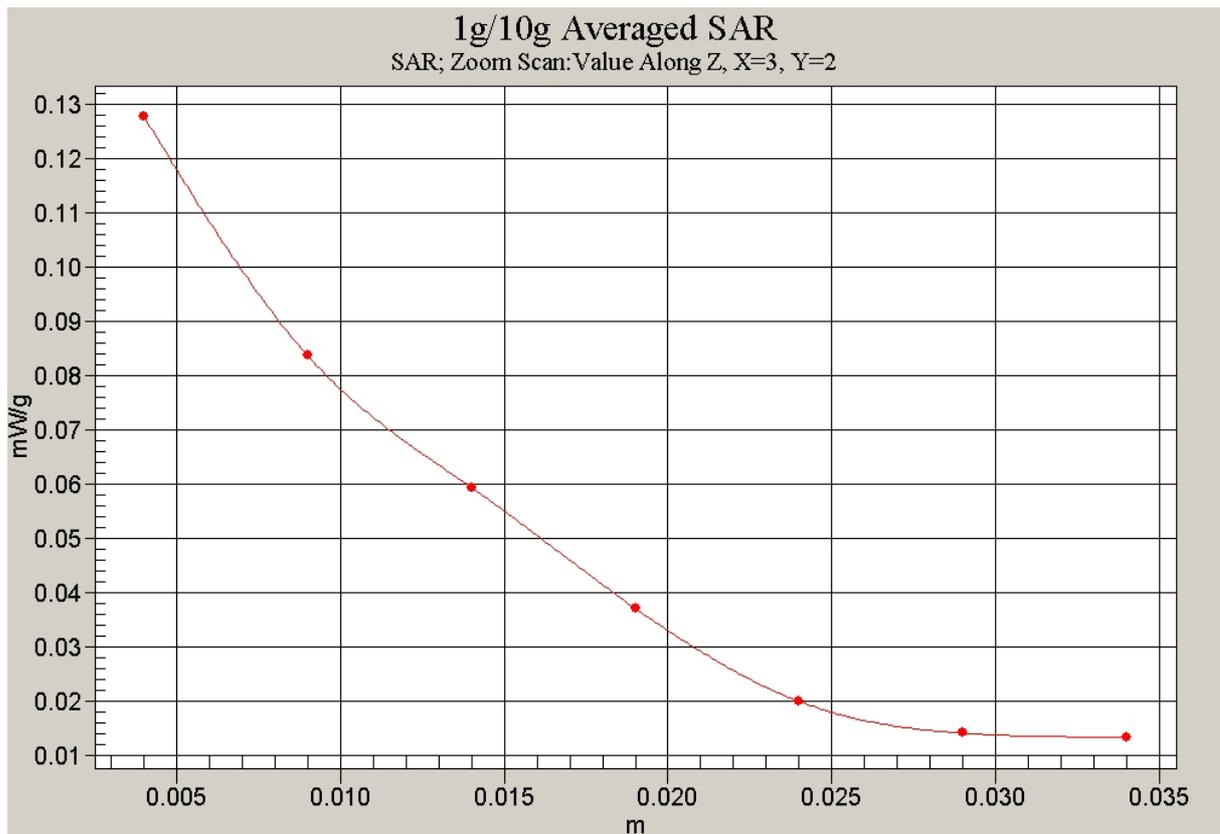


Fig.116 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 3-antenna unfolded)

EV-DO REV.A 1900 Test Position 4 with IBM Laptop-antenna unfolded

Date/Time: 2006-11-14 15:48:12

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 4/Area Scan (81x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.981 mW/g

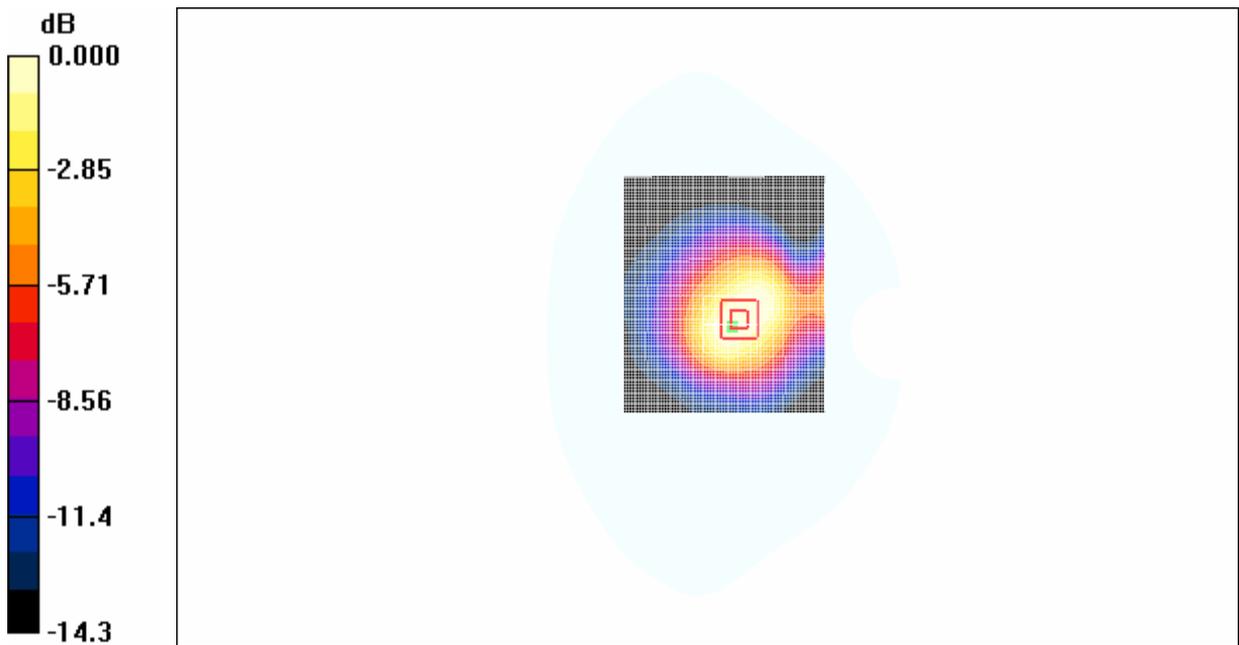
Test Position 4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.9 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.870 mW/g; SAR(10 g) = 0.558 mW/g

Maximum value of SAR (measured) = 0.921 mW/g



0 dB = 0.921mW/g

Fig. 117 EV-DO REV.A 1900 CH600 Test Position 4-antenna unfolded

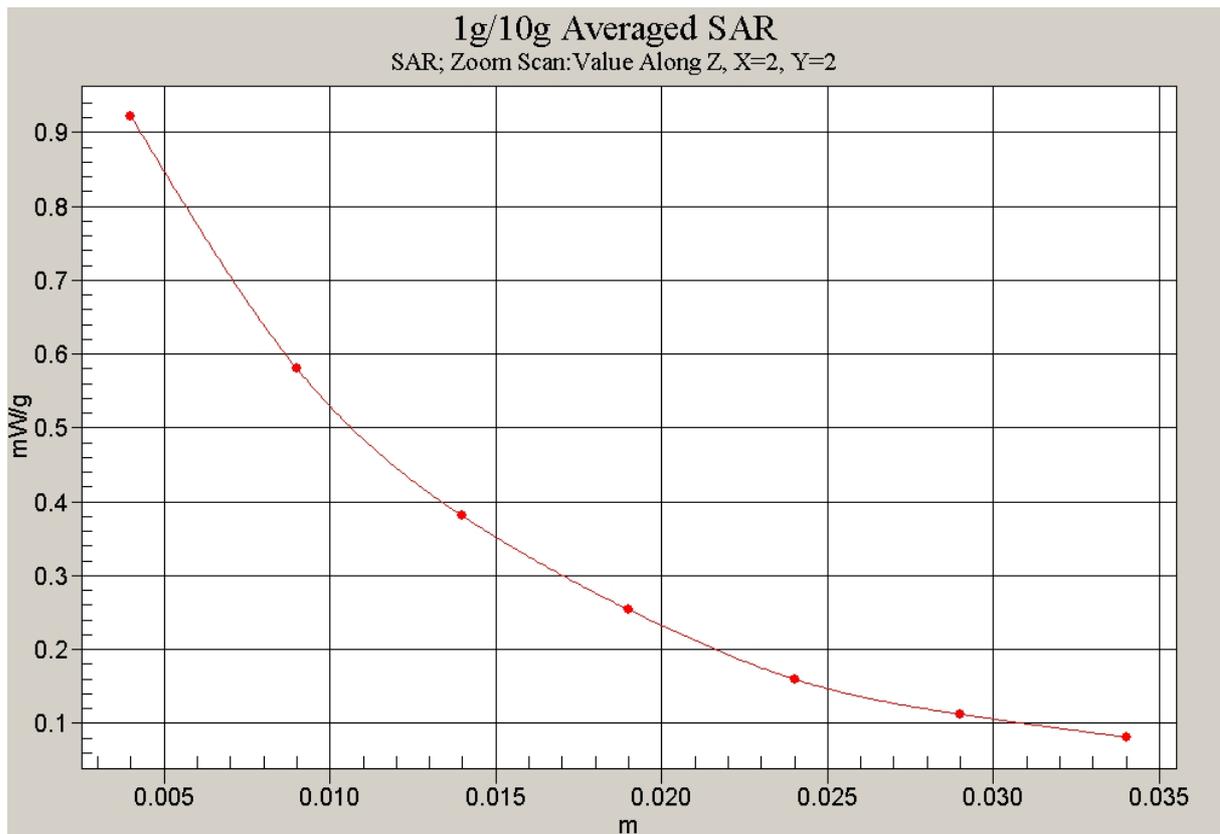


Fig.118 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 4-antenna unfolded)

EV-DO REV.A 1900 Test Position 5 with IBM Laptop-antenna unfolded

Date/Time: 2006-11-14 14:42:57

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used (interpolated): $\sigma = 1.57$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 5/Area Scan (71x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.816 mW/g

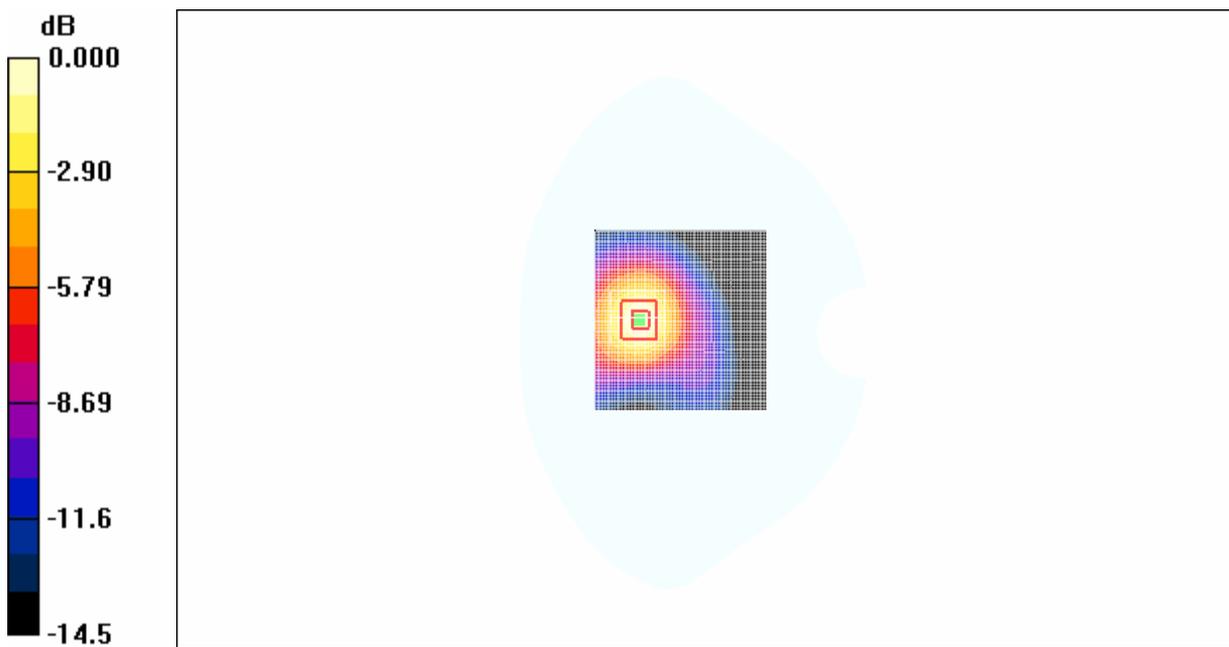
Test Position 5/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.37 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.731 mW/g; SAR(10 g) = 0.434 mW/g

Maximum value of SAR (measured) = 0.791 mW/g



0 dB = 0.791mW/g

Fig. 119 EV-DO REV.A 1900 CH600 Test Position 5-antenna unfolded

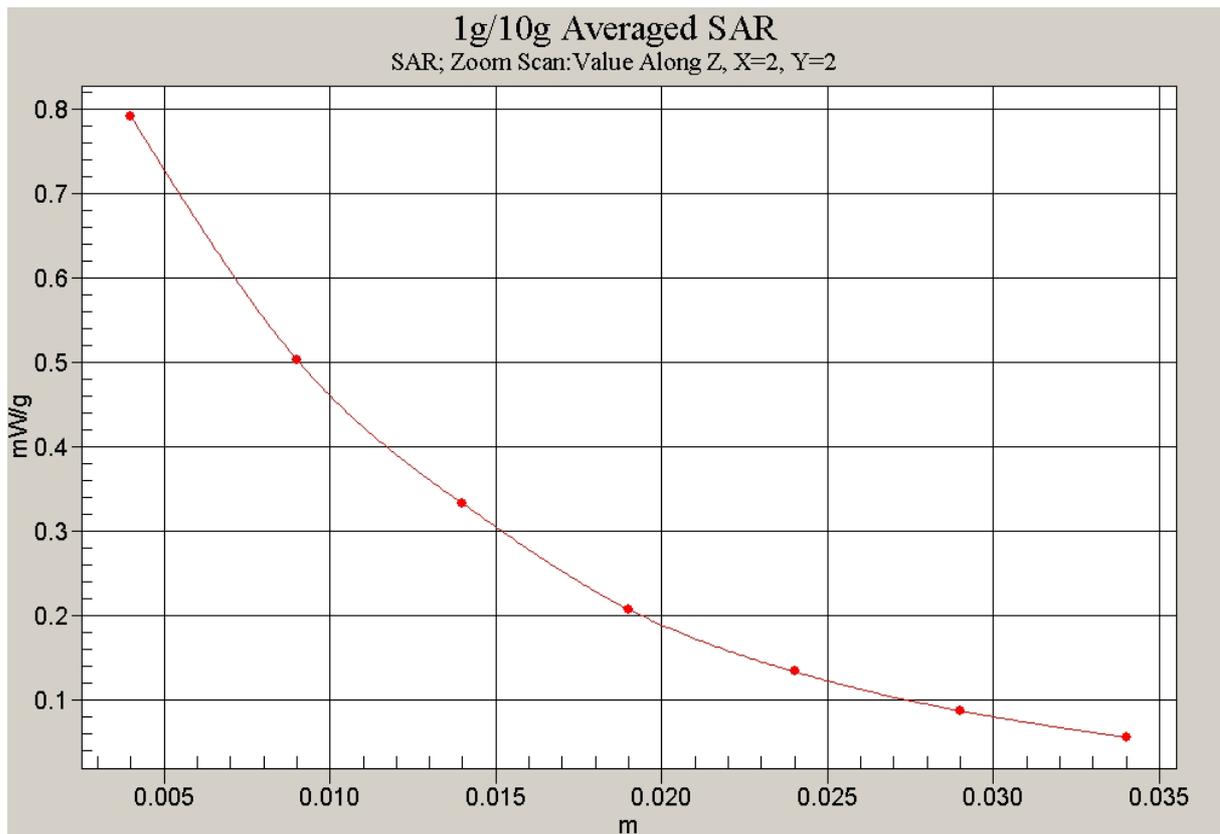


Fig.120 Z-Scan at power reference point
(EV-DO REV.A 1900 CH600 Test Position 5-antenna unfolded)

ANNEX D: SYSTEM VALIDATION RESULTS

835MHzDAE589Probe1736

Date/Time: 2006-11-13 08:12:57

Electronics: DAE3 Sn536

Medium: 835 Head

Medium parameters used (interpolated): $\sigma = 0.88$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.3°C

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

Probe: ET3DV6 - SN1736 ConvF(6.51, 6.51, 6.51)

System Validation/Area Scan (101x101x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 2.68 mW/g

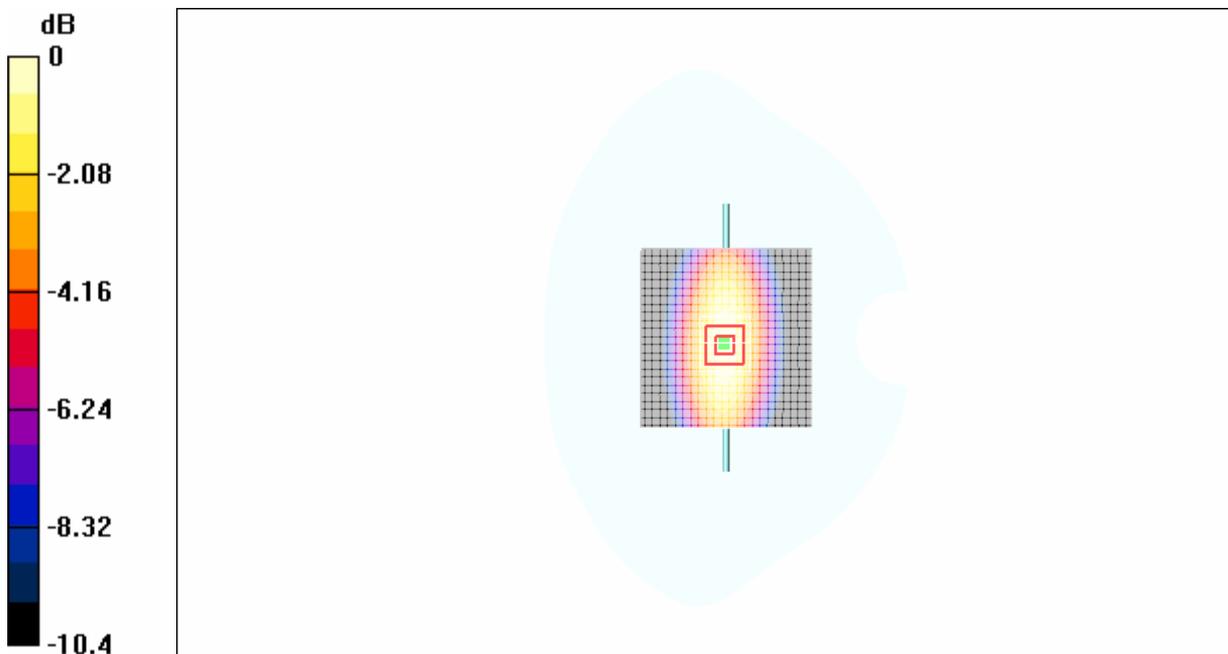
System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.8 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 2.48 mW/g; SAR(10 g) = 1.62 mW/g

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



0 dB = 2.69mW/g

Fig.121 validation 835MHz 250mW

1900MHzDAE536Probe1736

Date/Time: 2006-11-14 06:45:17

Electronics: DAE3 Sn536

Medium: 1900 Head

Medium parameters used (interpolated): $\sigma = 1.45$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.3°C

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

Probe: ET3DV6 - SN1736 ConvF(5.4, 5.4, 5.4)

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

Maximum value of SAR (interpolated) = 11.2 mW/g

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

Reference Value = 92.1 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 9.91 mW/g; SAR(10 g) = 5.27 mW/g

Maximum value of SAR (measured) = 11.3 mW/g

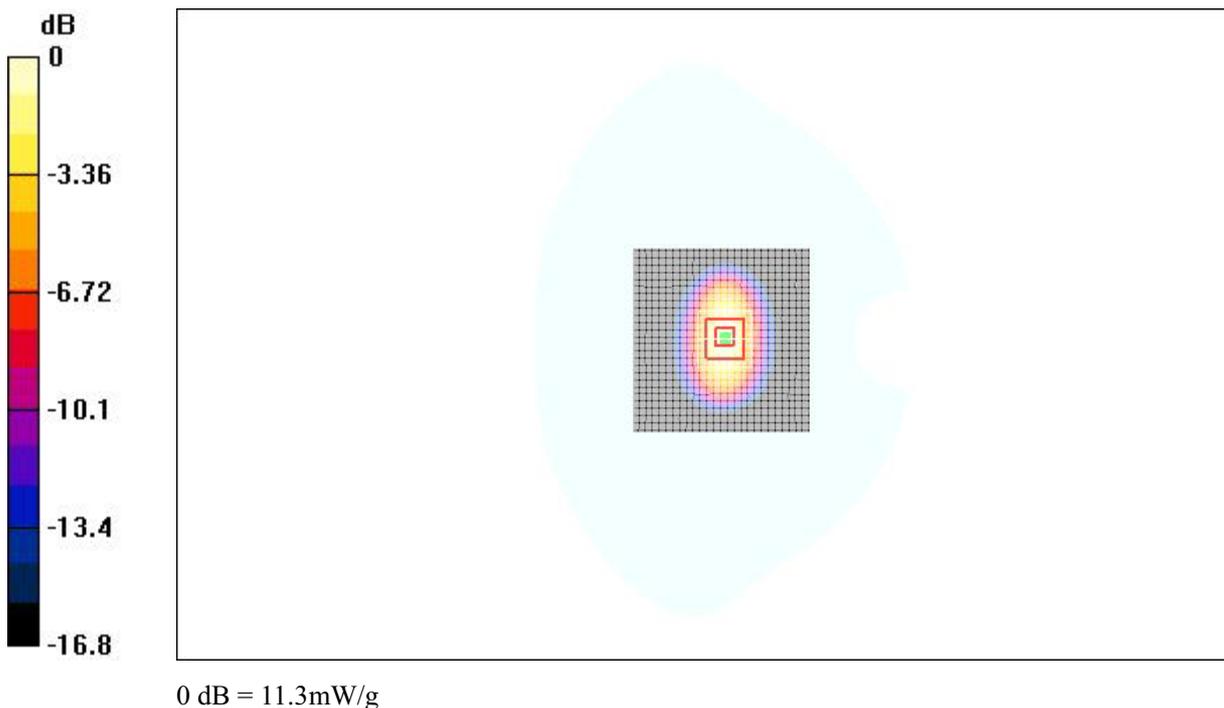


Fig.122 validation 1900MHz 250mW

**Telecommunication Metrology Center
of Ministry of Information Industry**

No. 2006E01943

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ANNEX E: PROBE CALIBRATION CERTIFICATE

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Federal Office of Metrology and Accreditation
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **TMC-Auden**

Certificate No: **ET3-1736_Nov05**

CALIBRATION CERTIFICATE

Object **ET3DV6 - SN:1736**

Calibration procedure(s) **QA CAL-01.v5
Calibration procedure for dosimetric E-field probes**

Calibration date: **November 25, 2005**

Condition of the calibrated item **In Tolerance**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	3-May-05 (METAS, No. 251-00466)	May-06
Power sensor E4412A	MY41495277	3-May-05 (METAS, No. 251-00466)	May-06
Power sensor E4412A	MY41498087	3-May-05 (METAS, No. 251-00466)	May-06
Reference 20 dB Attenuator	SN: S5086 (20b)	3-May-05 (METAS, No. 251-00467)	May-06
Reference Probe ES3DV2	SN: S5086 (20b)	3-May-05 (METAS, No. 251-00467)	May-06
DAE4	SN: 3013	7-Jan-05 (SPEAG, No. ES3-3013_Jan05)	Jan-06
Reference Probe ES3DV2	SN: 907	21-Jun-05 (SPEAG, No. DAE4-907_Jun05)	Jun-06

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (SPEAG, in house check Dec-03)	In house check: Dec-05
Network Analyzer HP 8753E	US37390585	18-Oct-01 (SPEAG, in house check Nov-04)	In house check: Nov 05

Calibrated by:	Name	Function	Signature
	Nico Vetterli	Laboratory Technician	

Approved by:	Name	Function	Signature
	Katja Pokovic	Technical Manager	

Issued: November 25, 2005

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Federal Office of Metrology and Accreditation
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- CENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz), July 2001

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}*: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). *NORM_{x,y,z}* are only intermediate values, i.e., the uncertainties of *NORM_{x,y,z}* does not effect the E^2 -field uncertainty inside TSL (see below *ConvF*).
- NORM(f)_{x,y,z}* = *NORM_{x,y,z}* * *frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- DCP_{x,y,z}*: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- ConvF and Boundary Effect Parameters*: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORM_{x,y,z}* * *ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy)*: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset*: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

ET3DV6 SN:1736

November 25, 2005

Probe ET3DV6

SN:1736

Manufactured:	September 27, 2002
Last calibrated:	July 14, 2005
Recalibrated:	November 25, 2005

Calibrated for DASY Systems

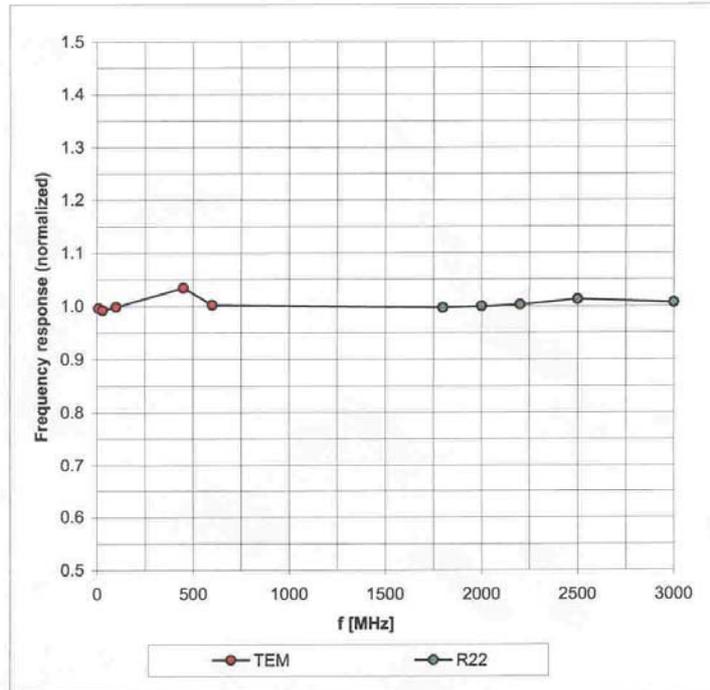
(Note: non-compatible with DASY2 system!)

ET3DV6 SN:1736

November 25, 2005

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)

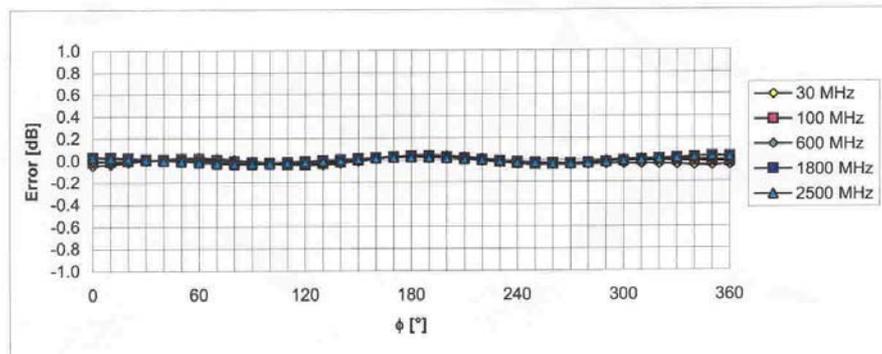
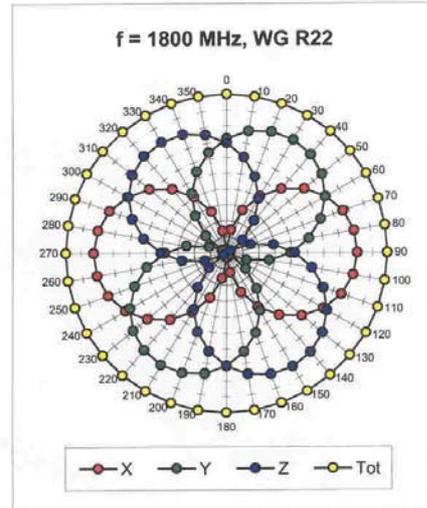
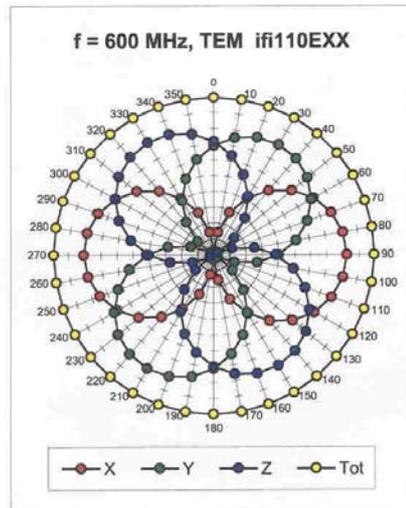


Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

ET3DV6 SN:1736

November 25, 2005

Receiving Pattern (ϕ), $\vartheta = 0^\circ$

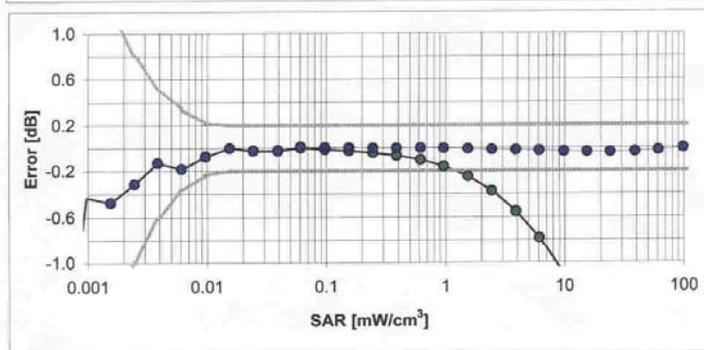
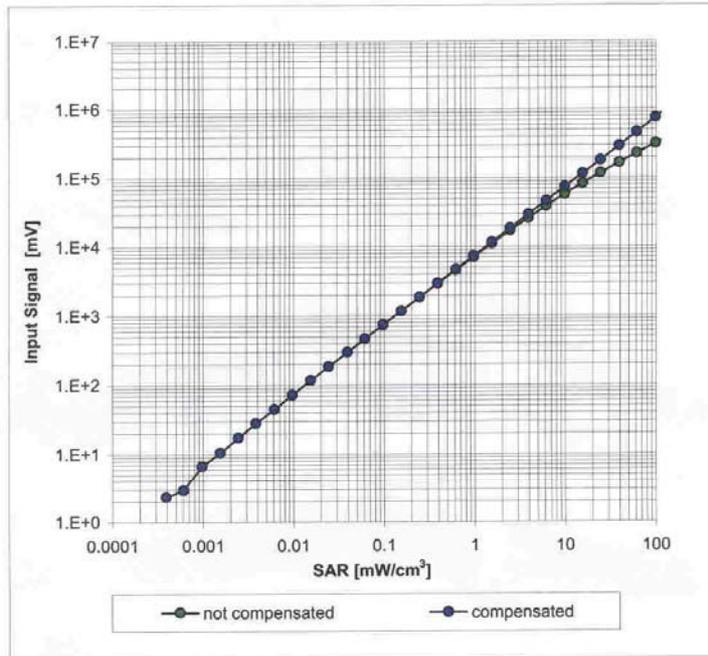


Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

ET3DV6 SN:1736

November 25, 2005

Dynamic Range $f(\text{SAR}_{\text{head}})$
(Waveguide R22, $f = 1800$ MHz)

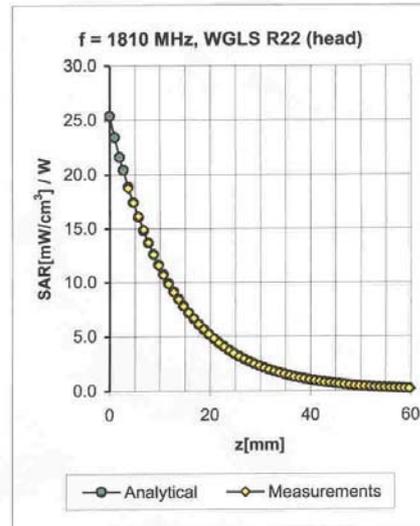
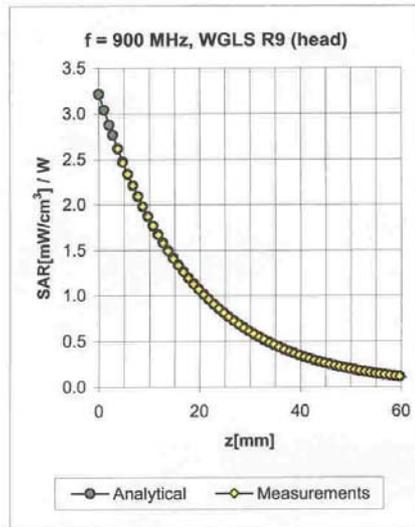


Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

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Conversion Factor Assessment



f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.56	1.85	6.51 ± 11.0% (k=2)
1810	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.57	2.47	5.40 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.62	2.29	4.67 ± 11.8% (k=2)
450	± 50 / ± 100	Body	56.7 ± 5%	0.94 ± 5%	0.12	1.61	7.74 ± 13.3% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.47	2.15	6.45 ± 11.0% (k=2)
1810	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.53	2.78	4.88 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.65	2.11	4.35 ± 11.8% (k=2)

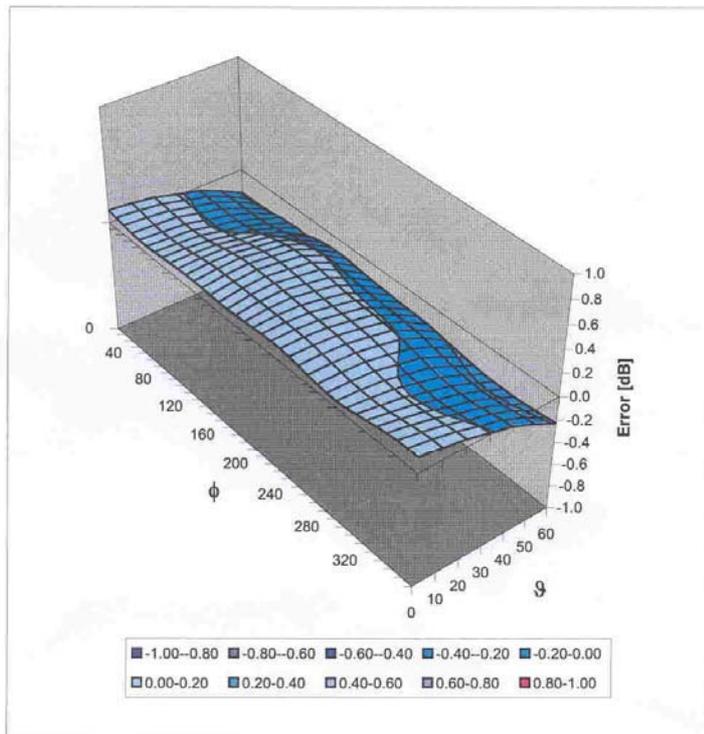
^c The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the Indicated frequency band.

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Deviation from Isotropy in HSL

Error (ϕ , ϑ), $f = 900$ MHz



Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ ($k=2$)