



Applicant:	Kyocera
FCC ID:	V65-C5170
Report #:	CT- C5170-9B1-0212-R1

EXHIBIT 9 Appendix B1: SAR DISTRIBUTION PLOTS (HEAD)

PCS

Applicant:	Kyocera
FCC ID:	V65-C5170
Report #:	CT- C5170-9B1-0212-R1

Test Laboratory: Comptest/Kyocera

Date: 02/27/2012

FCC C5170 CDMA-1900 Left, Ch600, Left Cheek

Communication System: CDMA-1900, Frequency: 1880 MHz, Duty Cycle: 1:1

Medium: HSL1900, Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Left Section

DASY4 Configuration:

Probe: ES3DV3 - SN3036, ConvF(5.06, 5.06, 5.06), Calibrated: 5/11/2011

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn675, Calibrated: 5/5/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

CDMA-1900_CH600 LC/Area Scan (101x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.740 mW/g

CDMA-1900_CH600 LC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.39 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 0.948 W/kg

SAR(1 g) = 0.660 mW/g; SAR(10 g) = 0.429 mW/g

Maximum value of SAR (measured) = 0.724 mW/g

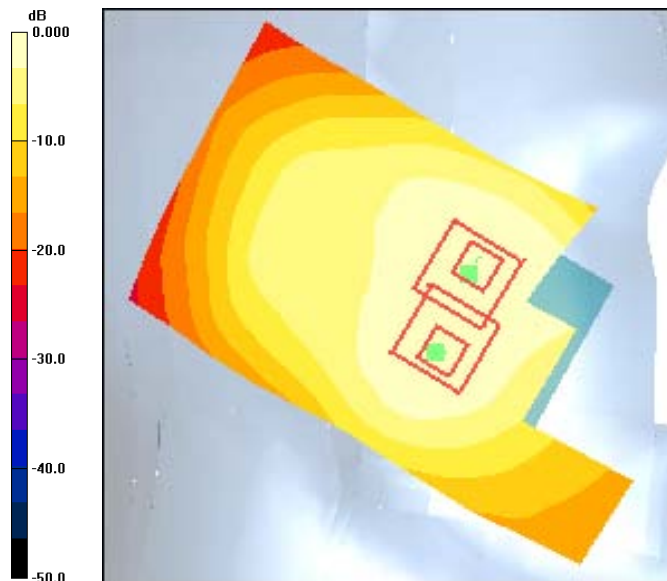
CDMA-1900_CH600 LC/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.39 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 0.969 W/kg

SAR(1 g) = 0.662 mW/g; SAR(10 g) = 0.432 mW/g

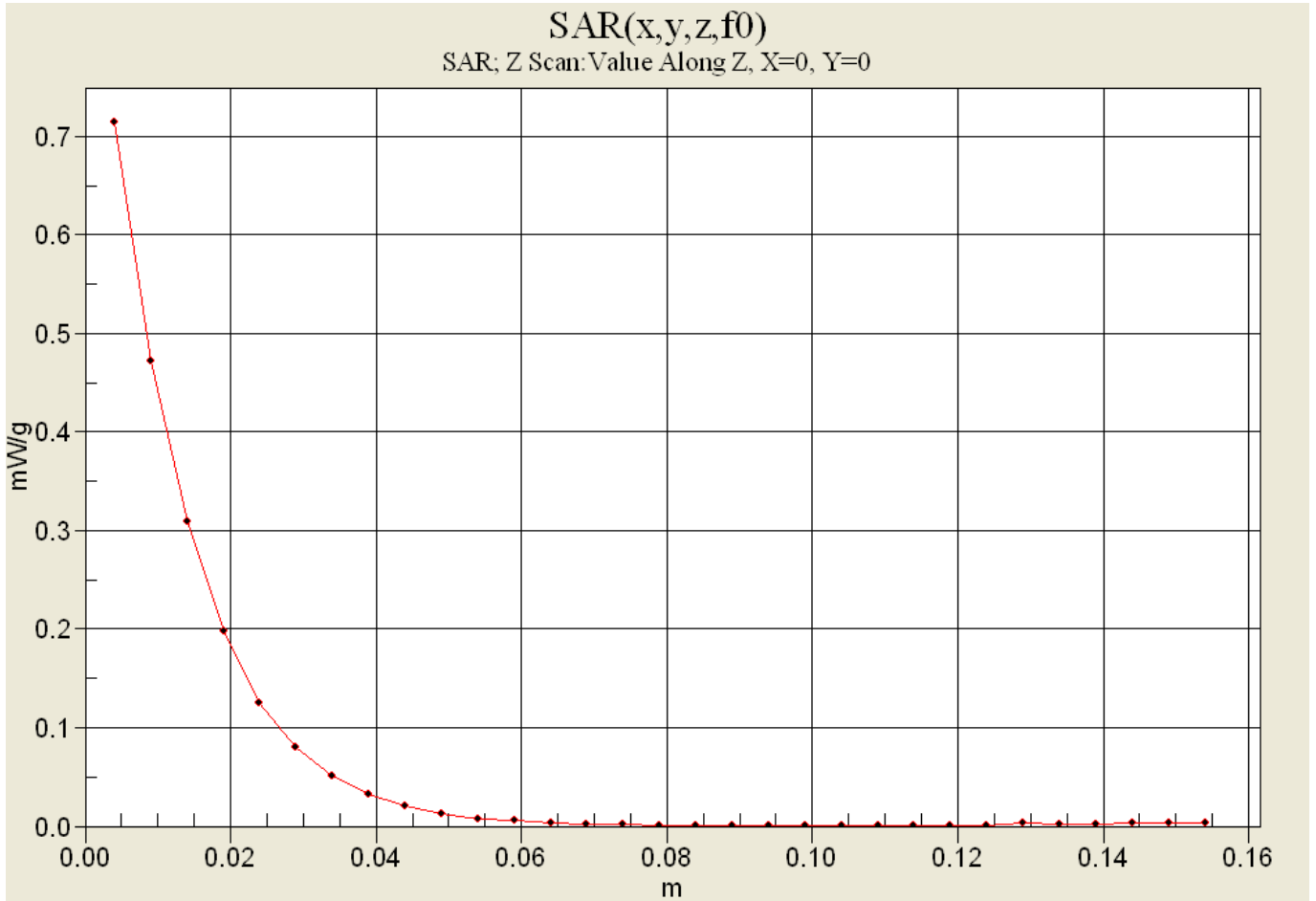
Maximum value of SAR (measured) = 0.715 mW/g



0 dB = 0.740mW/g



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FCC C5170 CDMA-1900 Left, Ch600, Left Tilt.

Communication System: CDMA-1900, Frequency: 1880 MHz, Duty Cycle: 1:1

Medium: HSL1900, Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Left Section

DASY4 Configuration:

Probe: ES3DV3 - SN3036, ConvF(5.06, 5.06, 5.06), Calibrated: 5/11/2011

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn675, Calibrated: 5/5/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

CDMA-1900_CH600 LT/Area Scan (111x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.277 mW/g

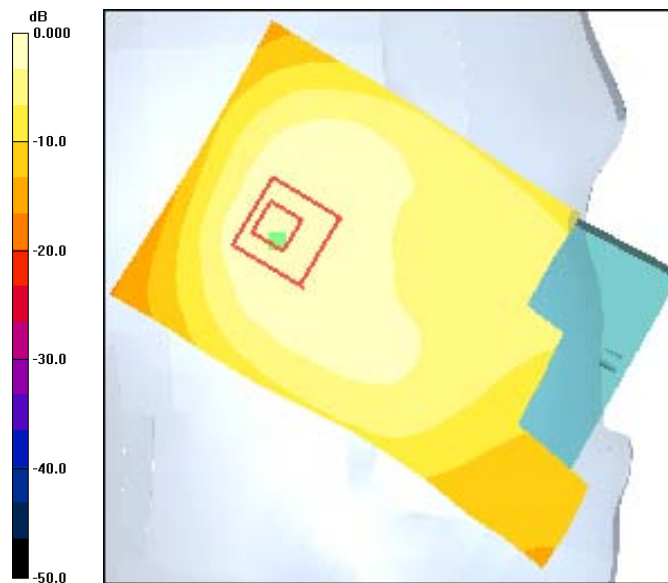
CDMA-1900_CH600 LT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.7 V/m; Power Drift = 0.175 dB

Peak SAR (extrapolated) = 0.376 W/kg

SAR(1 g) = 0.243 mW/g; SAR(10 g) = 0.156 mW/g

Maximum value of SAR (measured) = 0.262 mW/g



0 dB = 0.277mW/g

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Test Laboratory: Comptest/Kyocera

Date: 02/28/2012

FCC C5170 CDMA-1900 Right, Ch25, Right Cheek

Communication System: CDMA-1900, Frequency: 1851.25 MHz, Duty Cycle: 1:1

Medium: HSL1900, Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Right Section

DASY4 Configuration:

Probe: ES3DV3 - SN3036, ConvF(5.06, 5.06, 5.06), Calibrated: 5/11/2011

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn675, Calibrated: 5/5/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

CDMA-1900 Ch25 RC/Area Scan (101x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.27 mW/g

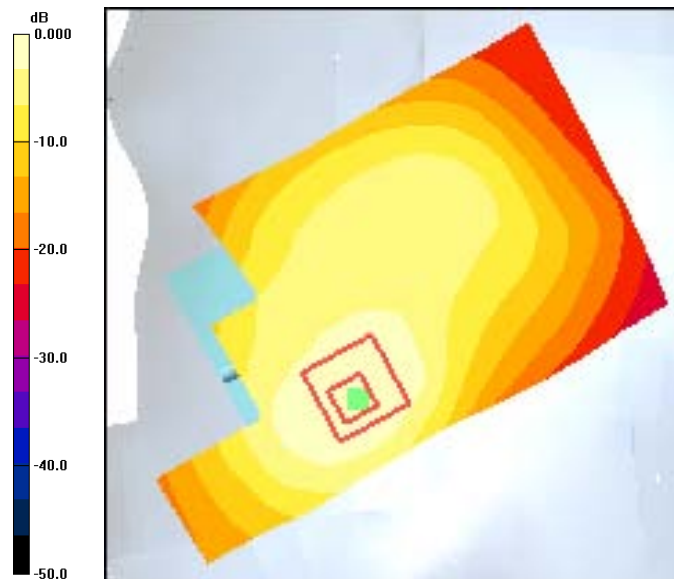
CDMA-1900 Ch25 RC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.63 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.669 mW/g

Maximum value of SAR (measured) = 1.27 mW/g



0 dB = 1.27mW/g

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Test Laboratory: Comptest/Kyocera

Date: 02/28/2012

FCC C5170 CDMA-1900 Right, Ch600, Right Cheek

Communication System: CDMA-1900, Frequency: 1880 MHz, Duty Cycle: 1:1

Medium: HSL1900, Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Right Section

DASY4 Configuration:

Probe: ES3DV3 - SN3036, ConvF(5.06, 5.06, 5.06), Calibrated: 5/11/2011

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn675, Calibrated: 5/5/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

CDMA-1900 Ch600 RC/Area Scan (111x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.09 mW/g

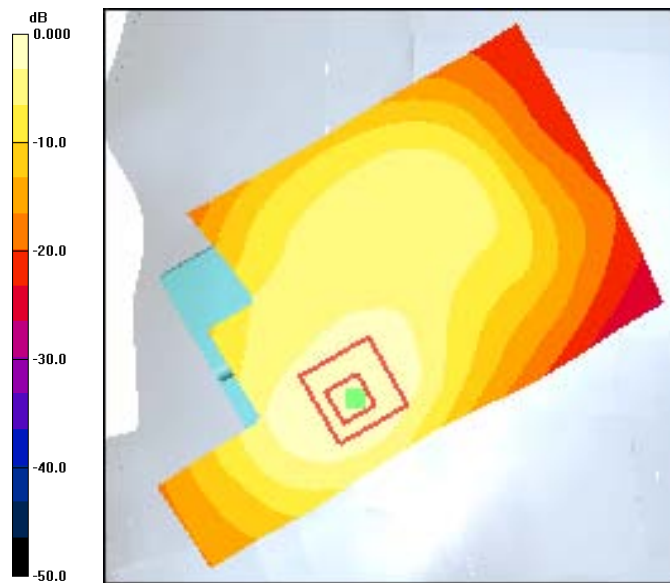
CDMA-1900 Ch600 RC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.54 V/m; Power Drift = 0.077 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.994 mW/g; SAR(10 g) = 0.582 mW/g

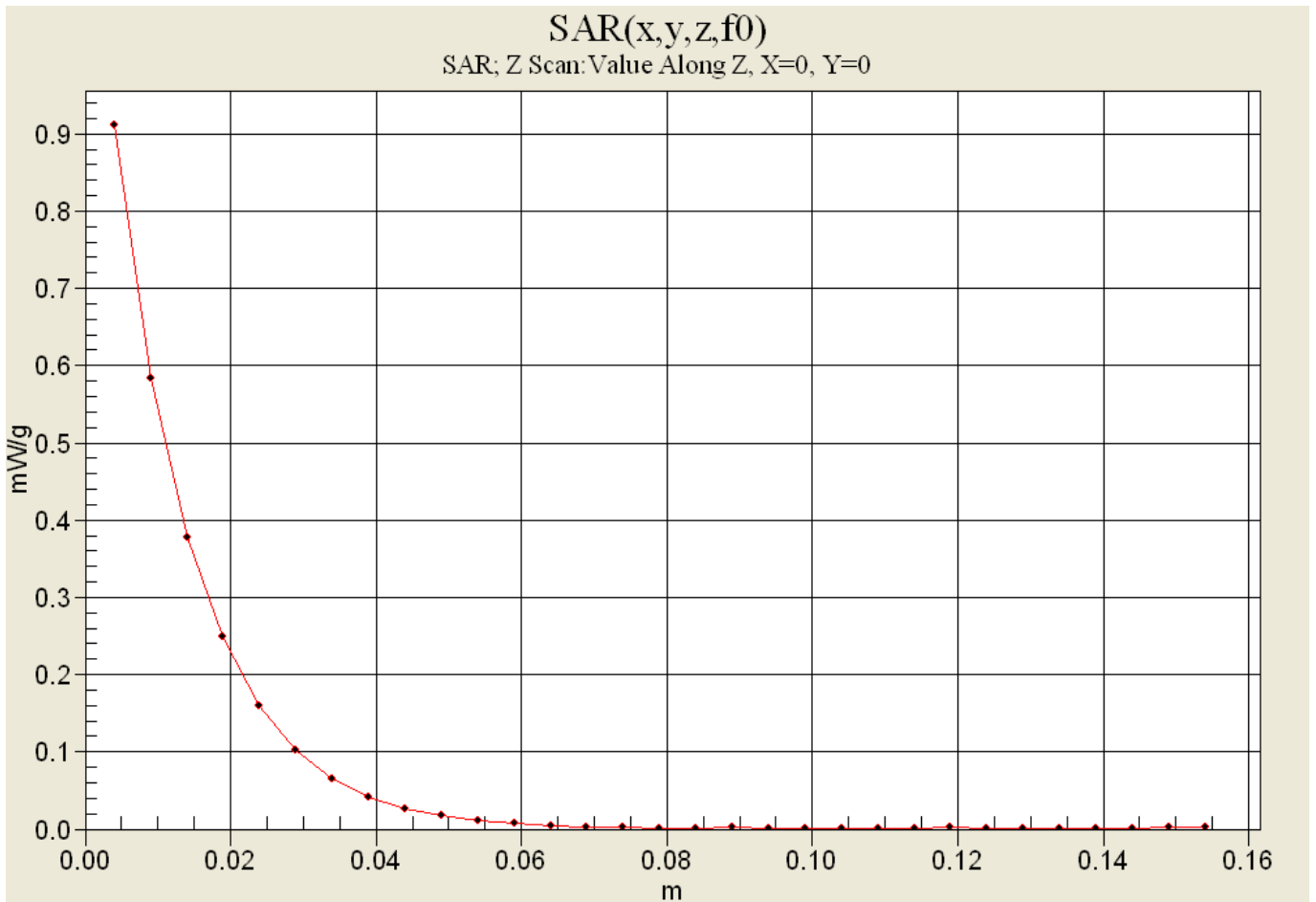
Maximum value of SAR (measured) = 1.10 mW/g



0 dB = 1.09mW/g



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Test Laboratory: Comptest/Kyocera

Date: 02/28/2012

FCC C5170 CDMA-1900 Right, Ch1175, Right Cheek

Communication System: CDMA-1900, Frequency: 1908.75 MHz, Duty Cycle: 1:1

Medium: HSL1900, Medium parameters used (interpolated): $f = 1908.75$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Right Section

DASY4 Configuration:

Probe: ES3DV3 - SN3036, ConvF(5.06, 5.06, 5.06), Calibrated: 5/11/2011

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn675, Calibrated: 5/5/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

CDMA-1900 Ch1175 RC/Area Scan (101x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.10 mW/g

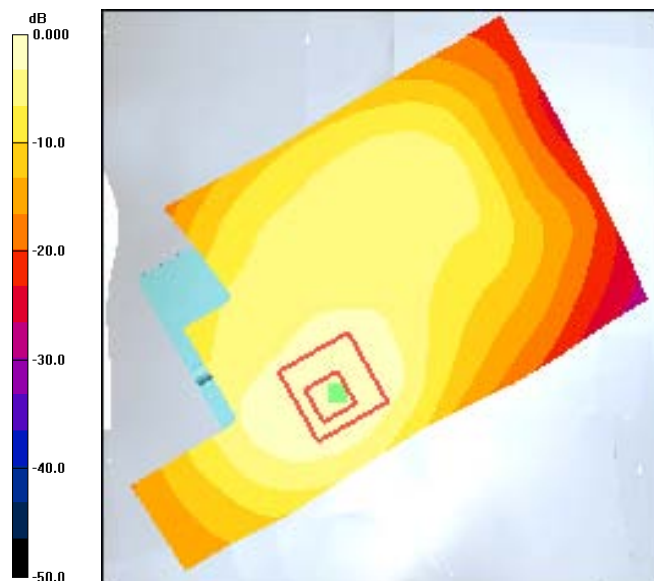
CDMA-1900 Ch1175 RC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.20 V/m; Power Drift = -0.093 dB

Peak SAR (extrapolated) = 1.66 W/kg

SAR(1 g) = 0.998 mW/g; SAR(10 g) = 0.580 mW/g

Maximum value of SAR (measured) = 1.10 mW/g



0 dB = 1.10mW/g

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Test Laboratory: Comptest/Kyocera

Date: 02/28/2012

FCC C5170 CDMA-1900 Right, Ch600, Right Tilt

Communication System: CDMA-1900, Frequency: 1880 MHz, Duty Cycle: 1:1

Medium: HSL1900, Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Right Section

DASY4 Configuration:

Probe: ES3DV3 - SN3036, ConvF(5.06, 5.06, 5.06), Calibrated: 5/11/2011

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn675, Calibrated: 5/5/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

CDMA-1900 Ch600 RT/Area Scan (101x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.318 mW/g

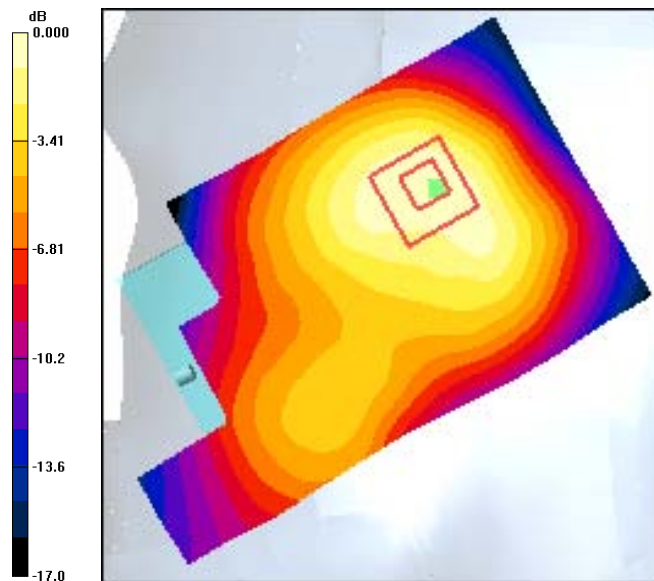
CDMA-1900 Ch600 RT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = 0.196 dB

Peak SAR (extrapolated) = 0.417 W/kg

SAR(1 g) = 0.284 mW/g; SAR(10 g) = 0.186 mW/g

Maximum value of SAR (measured) = 0.302 mW/g



0 dB = 0.302mW/g

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Test Laboratory: Comptest/Kyocera

Date: 04/03/2012

FCC C5170 WiFi Left, Ch11, Left Cheek

Communication System: WLAN-2450, Frequency: 2462 MHz, Duty Cycle: 1:1

Medium: HSL2450,Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 37.9$; $\rho = 1000$ kg/m³

Phantom: SAM 12,Phantom section: Left Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.36, 4.36, 4.36), Calibrated: 9/19/2011

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn530,Calibrated: 5/5/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

WLAN Ch11_LC/Area Scan (101x61x1): Measurement grid: dx=15mm, dy=15mm

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

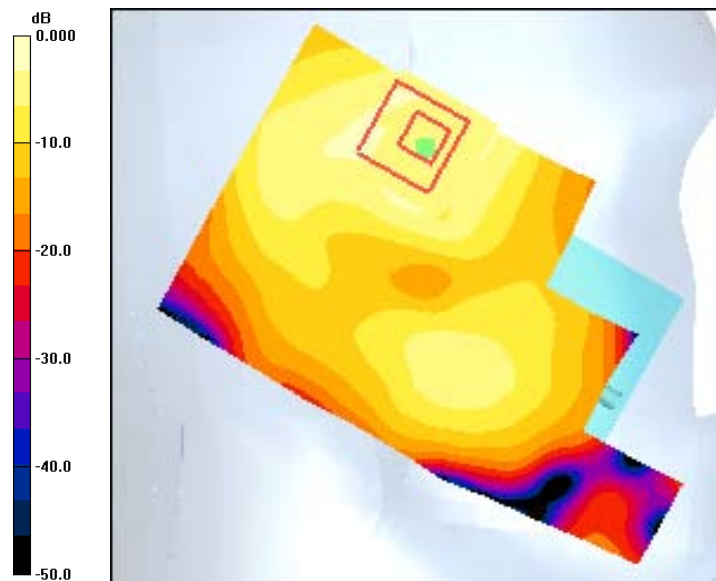
WLAN Ch11_LC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.69 V/m; Power Drift = 0.100 dB

Peak SAR (extrapolated) = 0.193 W/kg

SAR(1 g) = 0.071 mW/g; SAR(10 g) = 0.035 mW/g

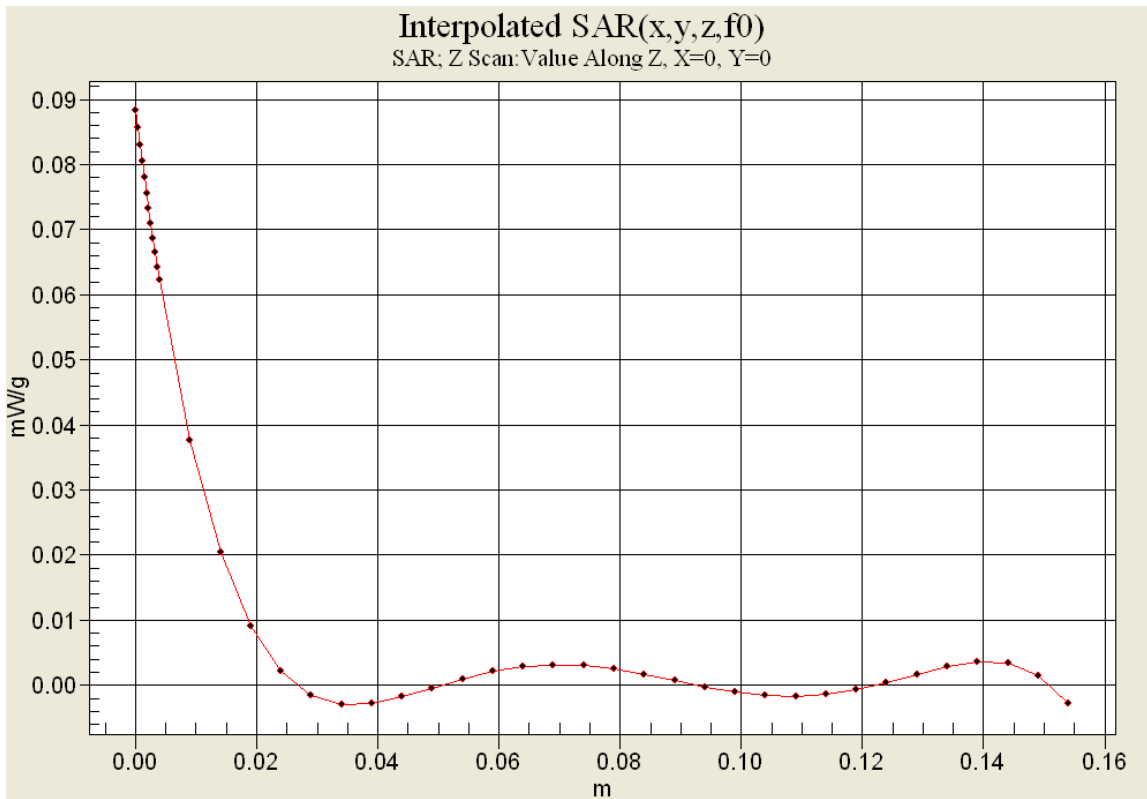
Maximum value of SAR (measured) = 0.104 mW/g



0 dB = 0.075mW/g



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Test Laboratory: Comptest/Kyocera

Date: 04/03/2012

FCC C5170 WiFi Left, Ch11, Left Tilt

Communication System: WLAN-2450, Frequency: 2462 MHz, Duty Cycle: 1:1

Medium: HSL2450, Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 37.9$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Left Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.36, 4.36, 4.36), Calibrated: 9/19/2011

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn530, Calibrated: 5/5/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

WLAN_Ch11 LT/Area Scan (101x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.129 mW/g

WLAN_Ch11 LT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.20 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.063 W/kg

SAR(1 g) = 0.032 mW/g; SAR(10 g) = 0.015 mW/g

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

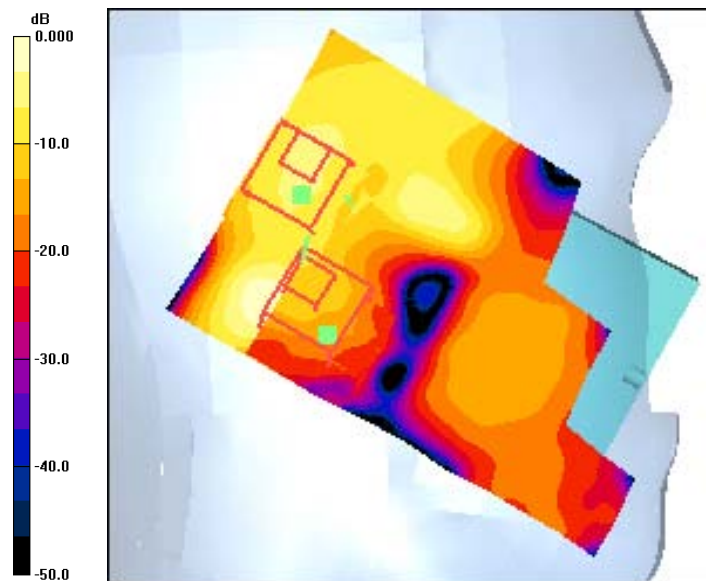
WLAN_Ch11 LT/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.20 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.021 W/kg

SAR(1 g) = 0.00949 mW/g; SAR(10 g) = 0.00316 mW/g

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



0 dB = 0.129mW/g

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Test Laboratory: Comptest/Kyocera

Date: 04/03/2012

FCC C5170 WiFi Right, Ch11, Right Cheek

Communication System: WLAN-2450, Frequency: 2462 MHz, Duty Cycle: 1:1

Medium: HSL2450, Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 37.9$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Right Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.36, 4.36, 4.36), Calibrated: 9/19/2011

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn530, Calibrated: 5/5/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

WLAN Ch11 RC/Area Scan (111x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.053 mW/g

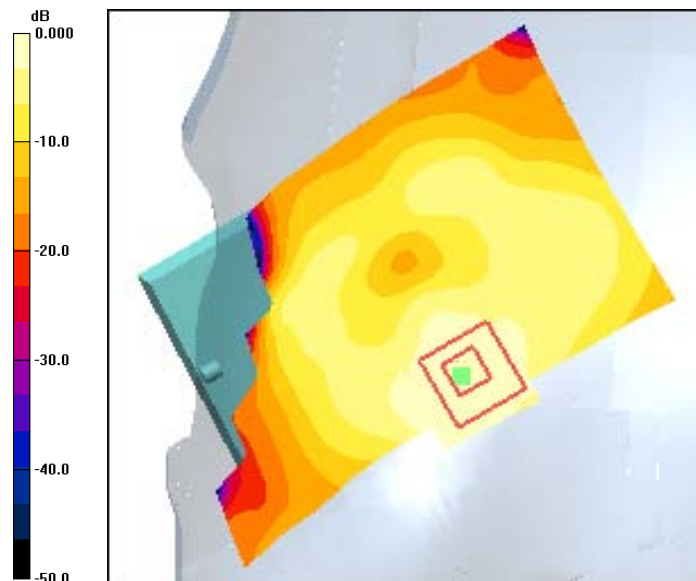
WLAN Ch11 RC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.665 V/m; Power Drift = -0.141 dB

Peak SAR (extrapolated) = 0.093 W/kg

SAR(1 g) = 0.044 mW/g; SAR(10 g) = 0.023 mW/g

Maximum value of SAR (measured) = 0.049 mW/g



0 dB = 0.053mW/g



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Interpolated SAR(x,y,z,f0)

SAR: Z Scan: Value Along Z, X=0, Y=0



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Date: 04/03/2012

FCC C5170 WiFi Right, Ch11, Right Tilt

Communication System: WLAN-2450, Frequency: 2462 MHz, Duty Cycle: 1:1

Medium: HSL2450, Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 37.9$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Right Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.36, 4.36, 4.36), Calibrated: 9/19/2011

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn530, Calibrated: 5/5/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

WLAN Ch11 RT/Area Scan (111x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.025 mW/g

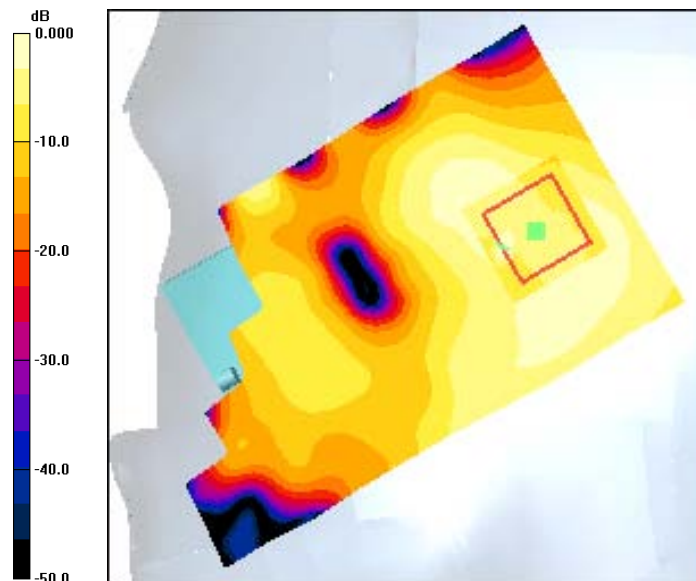
WLAN Ch11 RT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.706 V/m; Power Drift = -0.058 dB

Peak SAR (extrapolated) = 0.053 W/kg

SAR(1 g) = 0.026 mW/g; SAR(10 g) = 0.013 mW/g

Maximum value of SAR (measured) = 0.044 mW/g



0 dB = 0.025mW/g