

Appendix B2: SAR Distribution Plots (Body)



FCC ID: OVF-K5402
IC #: 3572A-E3100

CELL

Test Laboratory: Kyocera Communications, Inc.

FCC K54-02_E3100 CDMA-800 Flat with 15mm Air Space

Communication System: CDMA-800, Frequency: 824.7 MHz, Duty Cycle: 1:1
Medium: M900, Medium parameters used (interpolated): $f = 824.7 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$
Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.33, 6.33, 6.33), Calibrated: 7/15/2009
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE3 Sn493, Calibrated: 8/12/2009
Measurement SW: DASY4, V4.7 Build 80
Postprocessing SW: SEMCAD, V1.8 Build 186
Temperature: Room T = $21.8 \pm 1 \text{ deg C}$, Liquid T = $22.0 \pm 1 \text{ deg C}$

CDMA-800 FLAT Face-Down Ch1013 SO32 +SCH/Area Scan (71x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.779 mW/g

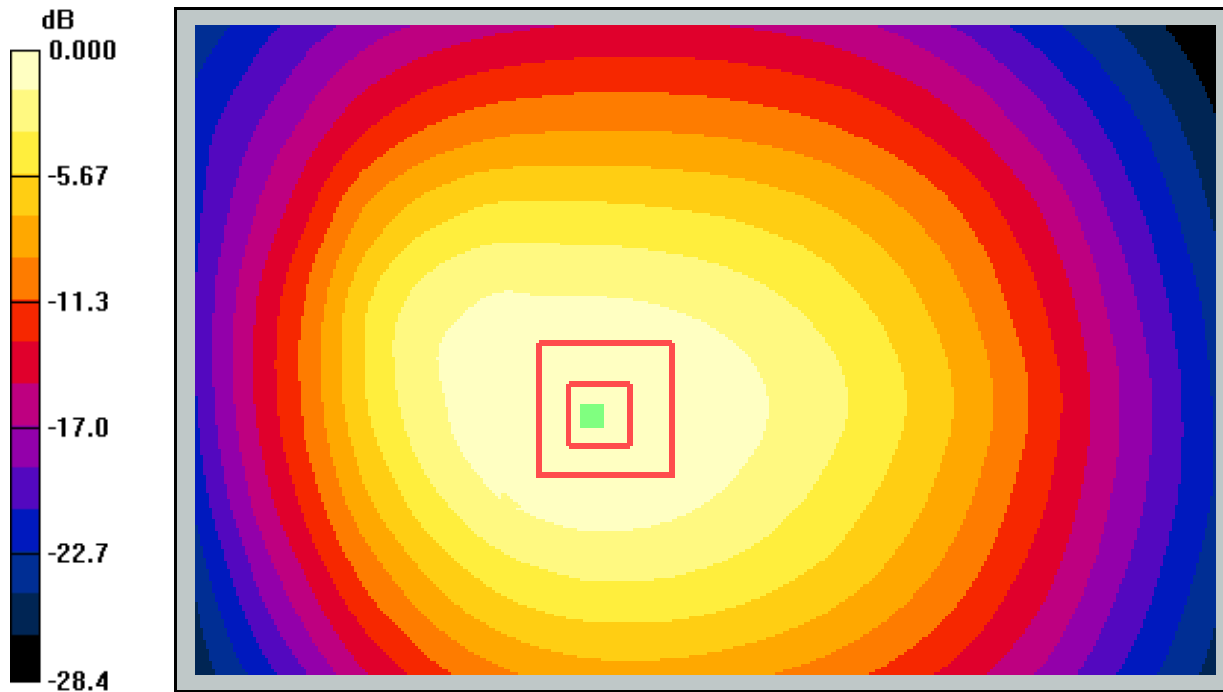
CDMA-800 FLAT Face-Down Ch1013 SO32 +SCH/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.8 V/m; Power Drift = 0.170 dB

Peak SAR (extrapolated) = 0.952 W/kg

SAR(1 g) = 0.720 mW/g; SAR(10 g) = 0.513 mW/g

Maximum value of SAR (measured) = 0.765 mW/g



0 dB = 0.779mW/g

Test Laboratory: Kyocera Communications, Inc.

FCC K54-02_E3100 CDMA-800 Flat with 15mm Air Space

Communication System: CDMA-800, Frequency: 836.49 MHz, Duty Cycle: 1:1
Medium: M900, Medium parameters used (interpolated): $f = 836.49$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³
Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.33, 6.33, 6.33), Calibrated: 7/15/2009
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE3 Sn493, Calibrated: 8/12/2009
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-800 FLAT Face-Down Ch383 SO32 +SCH/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.875 mW/g

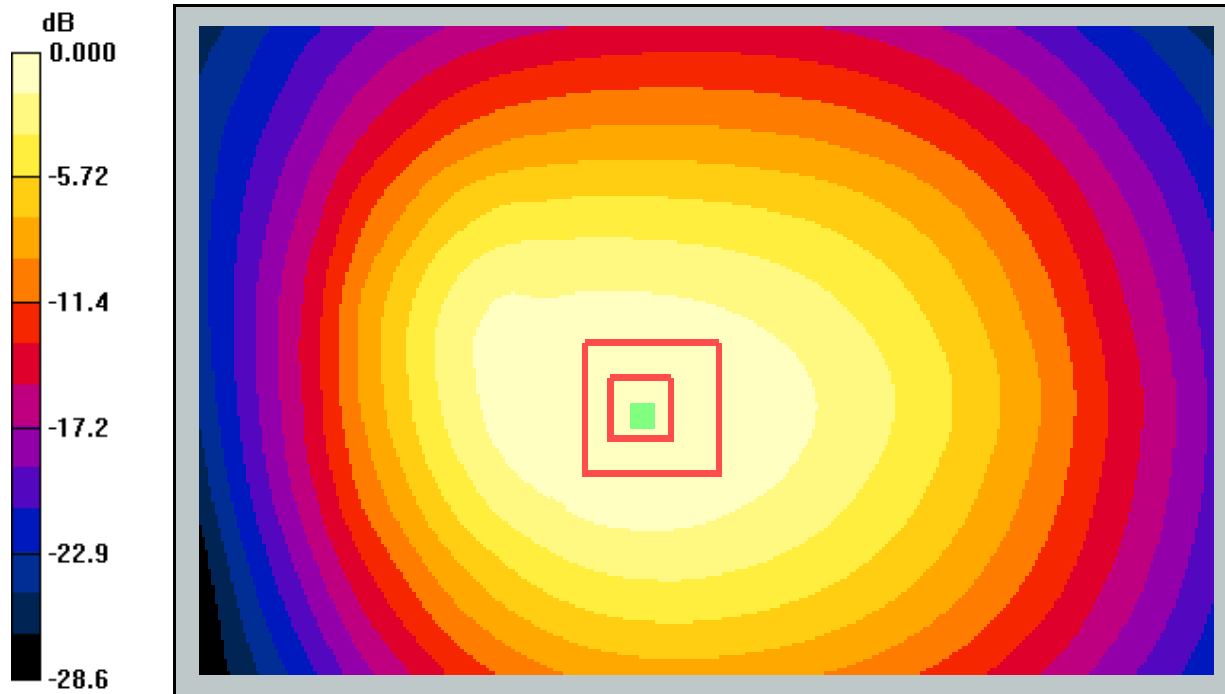
CDMA-800 FLAT Face-Down Ch383 SO32 +SCH/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.7 V/m; Power Drift = -0.004 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.834 mW/g; SAR(10 g) = 0.593 mW/g

Maximum value of SAR (measured) = 0.892 mW/g



0 dB = 0.875mW/g

Test Laboratory: Kyocera Communications, Inc.

FCC K54-02_E3100 CDMA-800 Flat with 15mm Air Space

Communication System: CDMA-800, Frequency: 836.49 MHz, Duty Cycle: 1:1
Medium: M900, Medium parameters used (interpolated): $f = 836.49$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³
Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.33, 6.33, 6.33), Calibrated: 7/15/2009
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE3 Sn493, Calibrated: 8/12/2009
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-800 FLAT Face-Down Ch777 SO32 +SCH/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.909 mW/g

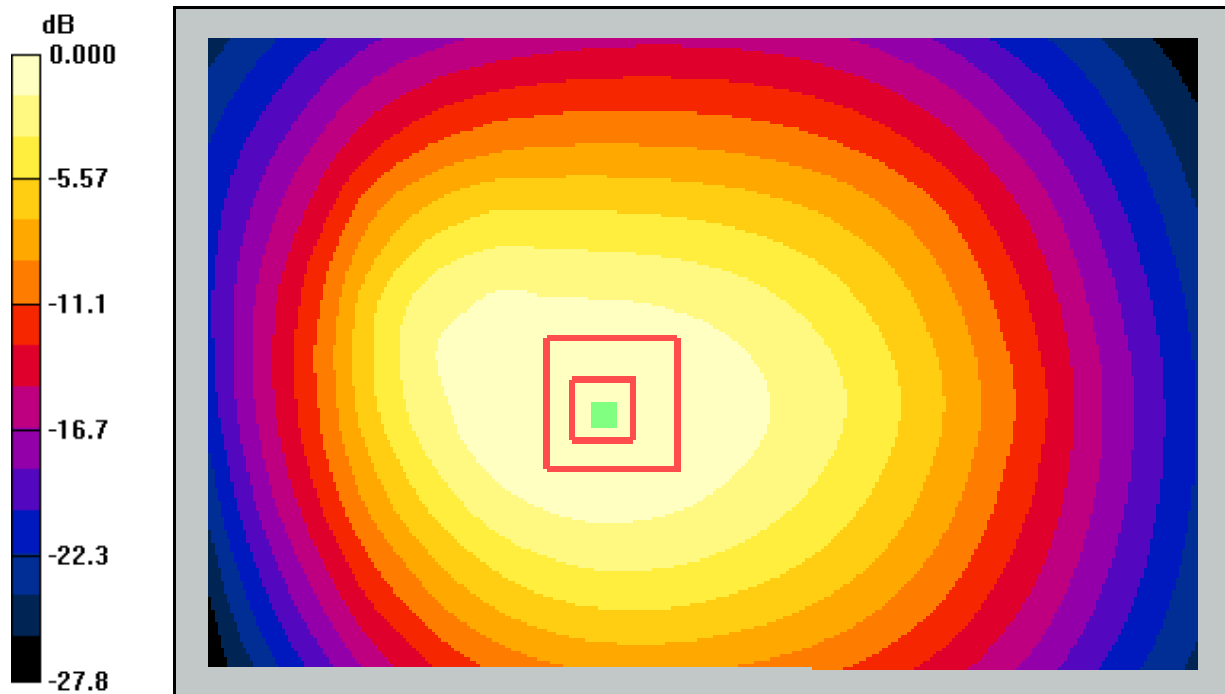
CDMA-800 FLAT Face-Down Ch777 SO32 +SCH/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.6 V/m; Power Drift = 0.168 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.876 mW/g; SAR(10 g) = 0.622 mW/g

Maximum value of SAR (measured) = 0.935 mW/g



0 dB = 0.909mW/g

Test Laboratory: Kyocera Communications, Inc.

FCC K54-02_E3100 CDMA-800 Flat with 15mm Air Space

Communication System: CDMA-800, Frequency: 836.49 MHz, Duty Cycle: 1:1
Medium: M900, Medium parameters used (interpolated): $f = 836.49$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³
Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.33, 6.33, 6.33), Calibrated: 7/15/2009
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE3 Sn493, Calibrated: 8/12/2009
Measurement SW: DASY4, V4.7 Build 80
Postprocessing SW: SEMCAD, V1.8 Build 186
Temperature: Room T = 21.8̄ 1 deg C, Liquid T = 22.0̄ 1 deg C

CDMA-800 FLAT Face-Up Ch383 SO32 +SCH/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.568 mW/g

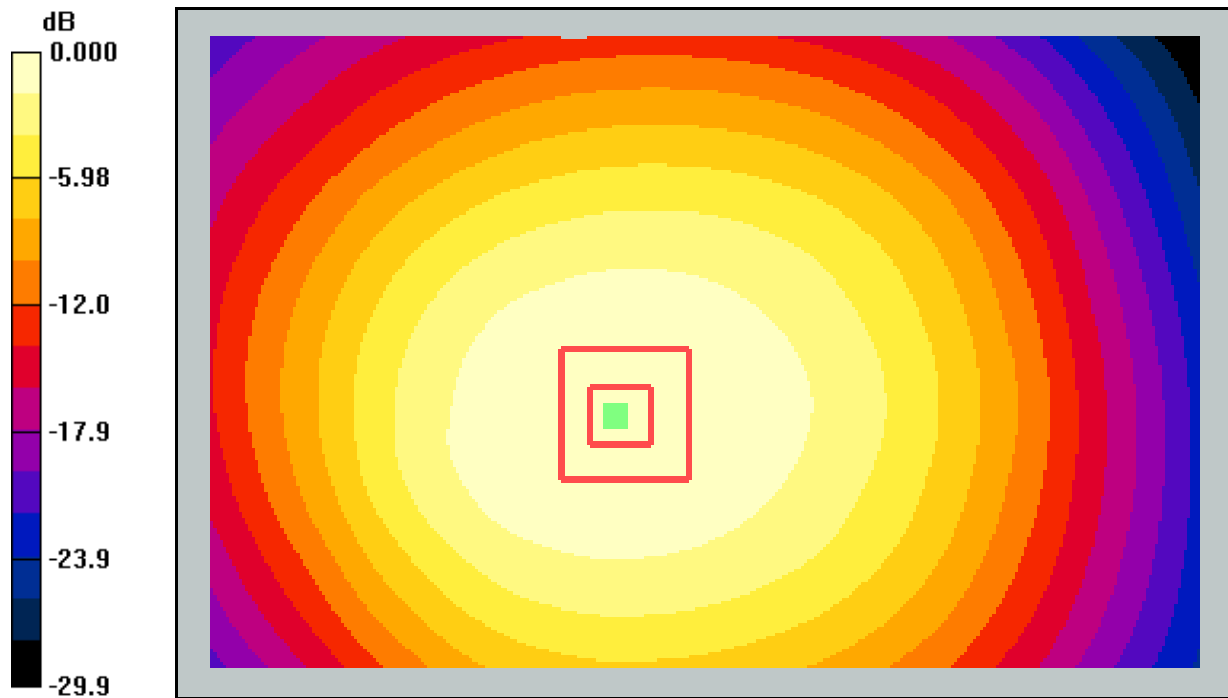
CDMA-800 FLAT Face-Up Ch383 SO32 +SCH/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.1 V/m; Power Drift = -0.034 dB

Peak SAR (extrapolated) = 0.663 W/kg

SAR(1 g) = 0.539 mW/g; SAR(10 g) = 0.404 mW/g

Maximum value of SAR (measured) = 0.569 mW/g



0 dB = 0.568mW/g



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IC #: 3572A-E3100

AWS

Test Laboratory: Kyocera Communications, Inc.

FCC K54-02_E3100 CDMA-1800 Flat with 15mm Air Space

Communication System: AWS 1700, Frequency: 1732.5 MHz, Duty Cycle: 1:1
Medium: M1700, Medium parameters used: $f = 1732.5$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³
Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(4.87, 4.87, 4.87), Calibrated: 7/15/2009
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE3 Sn493, Calibrated: 8/12/2009
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-1700 FLAT Face-Down Ch450/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.634 mW/g

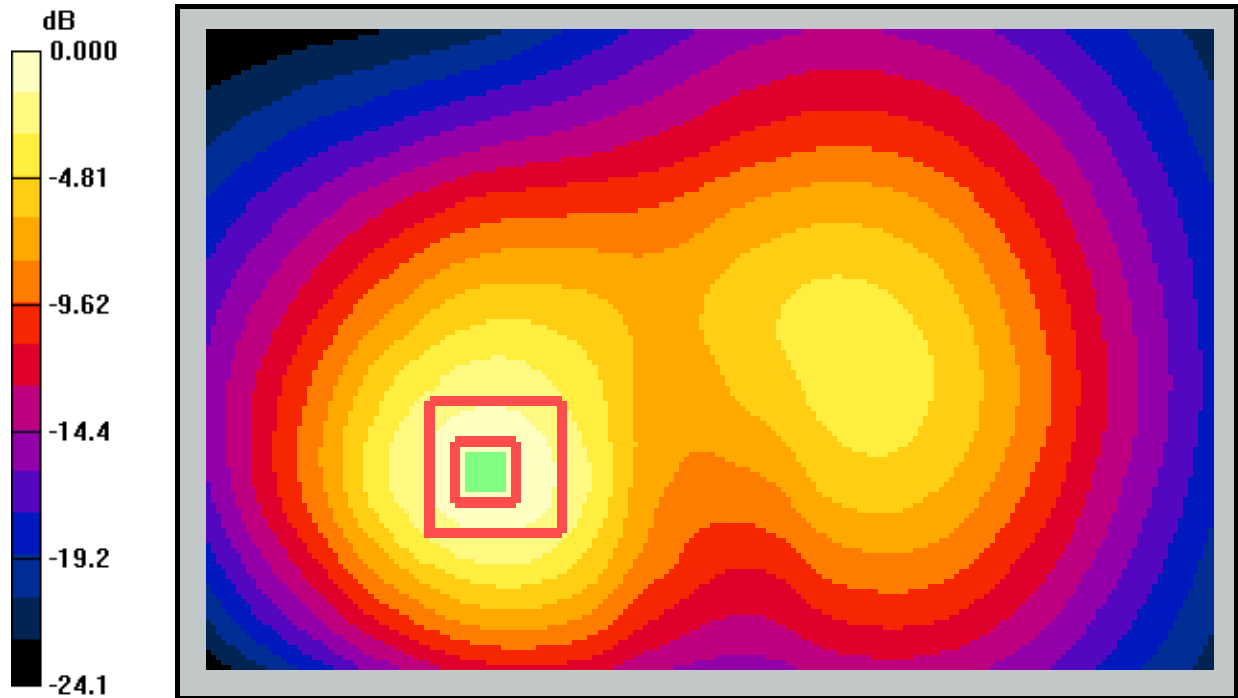
CDMA-1700 FLAT Face-Down Ch450/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.1 V/m; Power Drift = 0.067 dB

Peak SAR (extrapolated) = 0.710 W/kg

SAR(1 g) = 0.543 mW/g; SAR(10 g) = 0.326 mW/g

Maximum value of SAR (measured) = 0.609 mW/g



0 dB = 0.634mW/g

Test Laboratory: Kyocera Communications, Inc.

FCC K54-02_E3100 CDMA-1800 Flat with 15mm Air Space

Communication System: AWS 1700, Frequency: 1732.5 MHz, Duty Cycle: 1:1
Medium: M1700, Medium parameters used: $f = 1732.5$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³
Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(4.87, 4.87, 4.87), Calibrated: 7/15/2009
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE3 Sn493, Calibrated: 8/12/2009
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-1700 FLAT Face-Up Ch450/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.433 mW/g

CDMA-1700 FLAT Face-Up Ch450/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.3 V/m; Power Drift = -0.178 dB

Peak SAR (extrapolated) = 0.489 W/kg

SAR(1 g) = 0.381 mW/g; SAR(10 g) = 0.236 mW/g

Maximum value of SAR (measured) = 0.419 mW/g

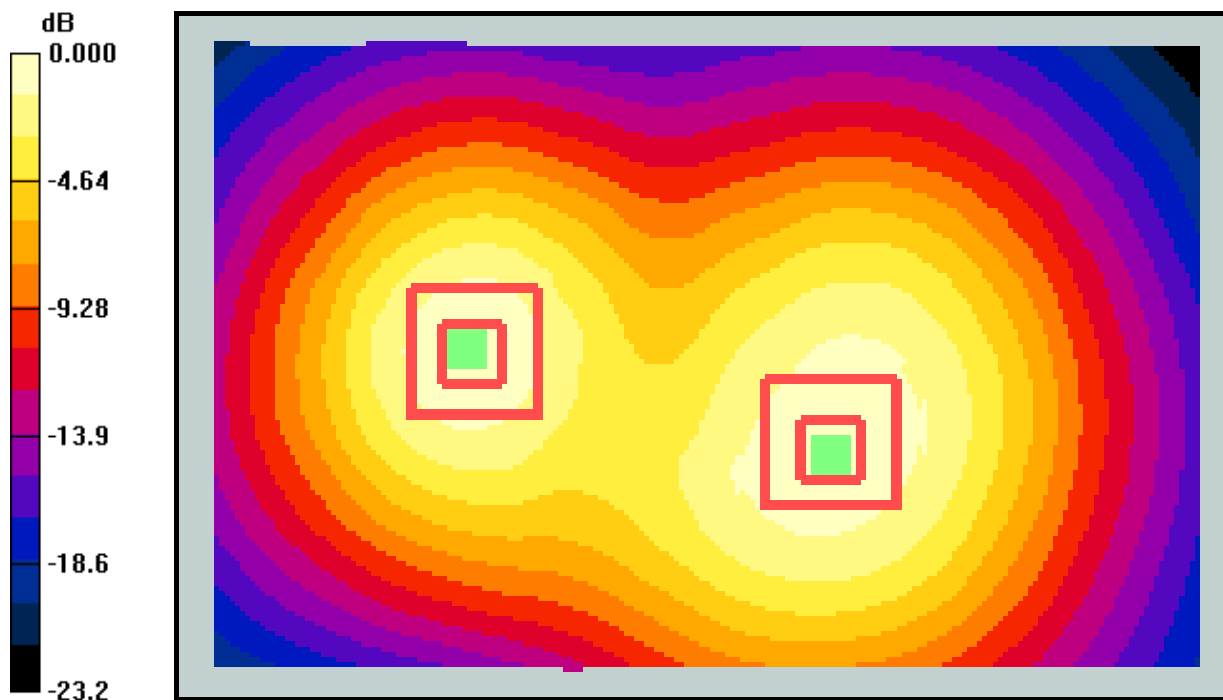
CDMA-1700 FLAT Face-Up Ch450/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.3 V/m; Power Drift = -0.178 dB

Peak SAR (extrapolated) = 0.419 W/kg

SAR(1 g) = 0.363 mW/g; SAR(10 g) = 0.252 mW/g

Maximum value of SAR (measured) = 0.391 mW/g



0 dB = 0.433mW/g



FCC ID: OVF-K5402
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PCS

Test Laboratory: Kyocera Communications, Inc.

FCC K54-02_E3100 CDMA-1900 Flat with 15mm Air Space

Communication System: CDMA-1900, Frequency: 1880 MHz, Duty Cycle: 1:1
Medium: M1900, Medium parameters used: $f = 1880$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³
Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3035, ConvF(4.54, 4.54, 4.54), Calibrated: 8/20/2009
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE4 Sn530, Calibrated: 4/23/2010
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 FLAT - Face Down Ch600 SO32/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.670 mW/g

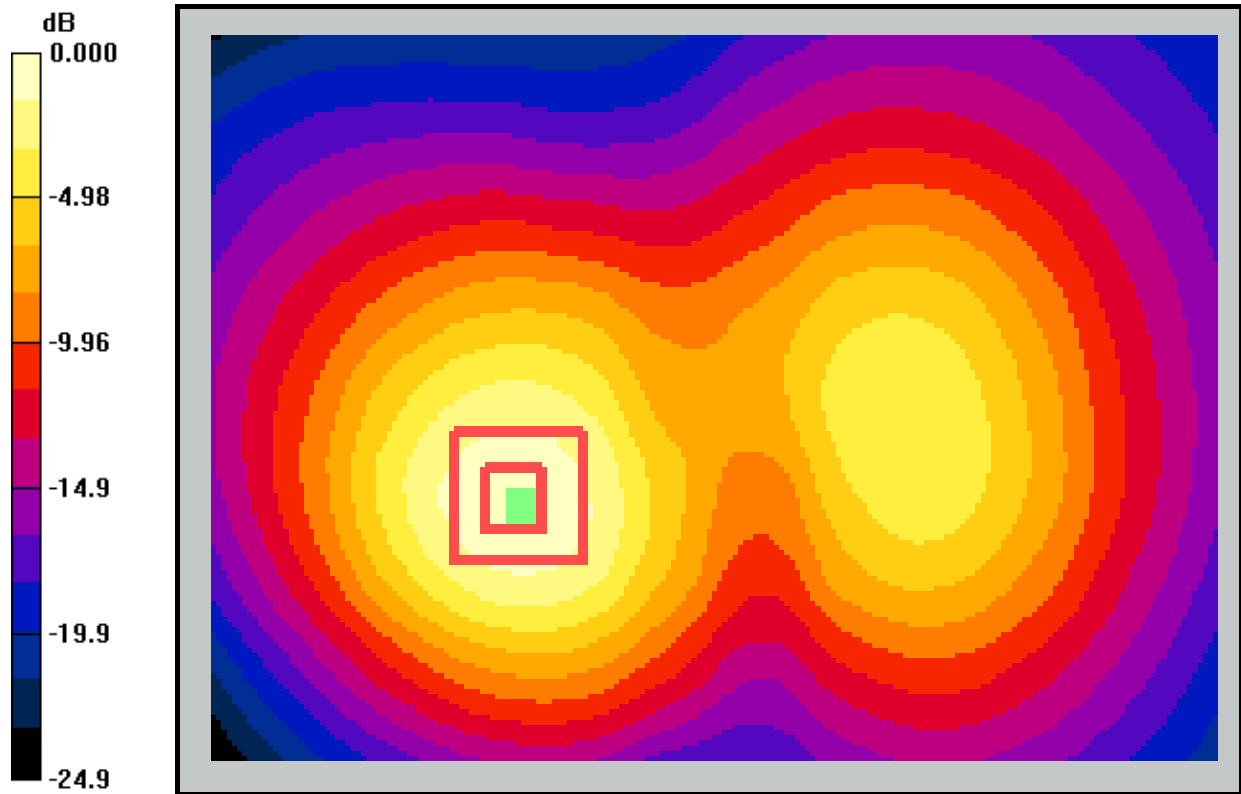
CDMA-1900 FLAT - Face Down Ch600 SO32/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.38 V/m; Power Drift = 0.069 dB

Peak SAR (extrapolated) = 0.911 W/kg

SAR(1 g) = 0.593 mW/g; SAR(10 g) = 0.352 mW/g

Maximum value of SAR (measured) = 0.658 mW/g



0 dB = 0.670mW/g

Test Laboratory: Kyocera Communications, Inc.

FCC K54-02_E3100 CDMA-1900 Flat with 15mm Air Space

Communication System: CDMA-1900, Frequency: 1880 MHz, Duty Cycle: 1:1
Medium: M1900, Medium parameters used: $f = 1880$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³
Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3035, ConvF(4.54, 4.54, 4.54), Calibrated: 8/20/2009
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE4 Sn530, Calibrated: 4/23/2010
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 FLAT - Face Up Closed Ch600 SO32/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.558 mW/g

CDMA-1900 FLAT - Face Up Closed Ch600 SO32/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.51 V/m; Power Drift = 0.066 dB

Peak SAR (extrapolated) = 0.764 W/kg

SAR(1 g) = 0.509 mW/g; SAR(10 g) = 0.309 mW/g

Maximum value of SAR (measured) = 0.556 mW/g

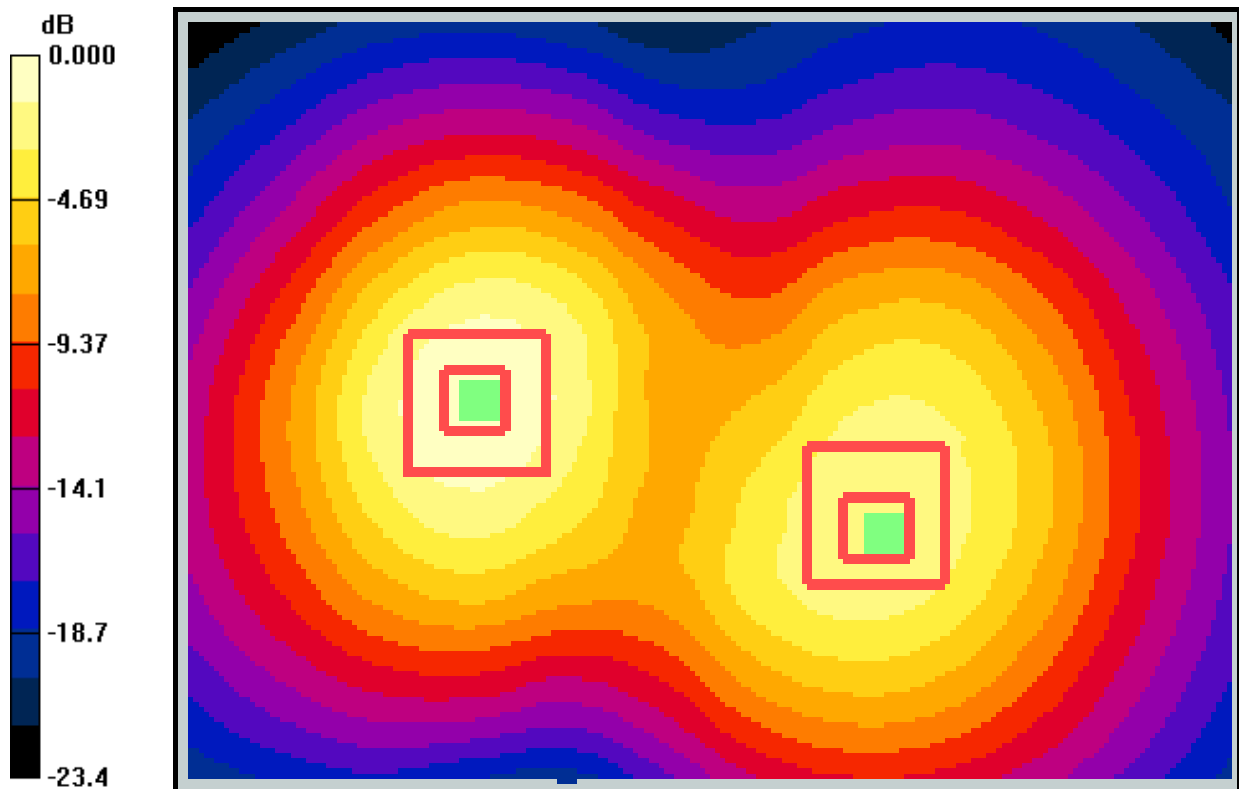
CDMA-1900 FLAT - Face Up Closed Ch600 SO32/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.51 V/m; Power Drift = 0.066 dB

Peak SAR (extrapolated) = 0.485 W/kg

SAR(1 g) = 0.351 mW/g; SAR(10 g) = 0.231 mW/g

Maximum value of SAR (measured) = 0.377 mW/g



0 dB = 0.558mW/g