

Applicant:	Kyocera
FCC ID:	V65C5133
Report #:	CT-C5133-9B3-0812-R0

EXHIBIT 9 APPENDIX B3: SAR DISTRIBUTION PLOTS (HOTSPOT)

PCS



Applicant:	Kyocera
FCC ID:	V65C5133
Report #:	CT-C5133-9B3-0812-R0

FCC C5133 PCS Flat with 1cm Air Space, Front Ch. 25

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

Medium: M1800, Medium parameters used (interpolated): f = 1851.25 MHz; $\sigma = 1.53$ mho/m; $\varepsilon_r = 51.9$; $\rho = 1000$

kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.55, 4.55, 4.55), Calibrated: 7/19/2012

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

Electronics: DAE4 Sn675, Calibrated: 5/23/2012 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 FLAT - FRONT/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

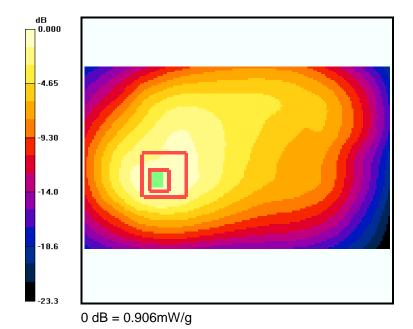
Maximum value of SAR (interpolated) = 0.906 mW/g

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

Reference Value = 15.5 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.774 mW/g; SAR(10 g) = 0.471 mW/g Maximum value of SAR (measured) = 0.846 mW/g





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FCC C5133 PCS Flat with 1cm Air Space, Front Ch. 600

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

Medium: M1800, Medium parameters used: f = 1880 MHz; $\sigma = 1.53 \text{ mho/m}$; $\varepsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.55, 4.55, 4.55), Calibrated: 7/19/2012

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

Electronics: DAE4 Sn675, Calibrated: 5/23/2012 Measurement SW: DASY4, V4.7 Build 80 Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

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

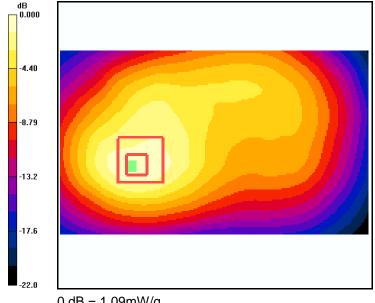
CDMA-1900 Ch600 FLAT -FRONT/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.09 mW/g

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

Reference Value = 15.3 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.929 mW/g; SAR(10 g) = 0.558 mW/gMaximum value of SAR (measured) = 1.02 mW/g



0 dB = 1.09 mW/g



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FCC C5133 PCS Flat with 1cm Air Space, Front Ch. 1175

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

Medium: M1800, Medium parameters used (interpolated): f = 1908.75 MHz; σ = 1.53 mho/m; ϵ_r = 51.9; ρ = 1000

kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.55, 4.55, 4.55), Calibrated: 7/19/2012

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

Electronics: DAE4 Sn675, Calibrated: 5/23/2012 Measurement SW: DASY4, V4.7 Build 80 Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

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

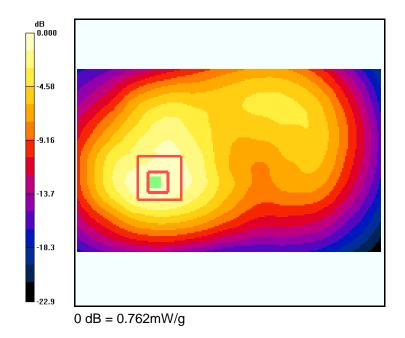
CDMA-1900 Ch1175 FLAT - FRONT/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.762 mW/g

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

Reference Value = 11.2 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.657 mW/g; SAR(10 g) = 0.397 mW/g Maximum value of SAR (measured) = 0.719 mW/g





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FCC C5133 PCS Flat with 1cm Air Space, Back Ch. 25

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

Medium: M1800, Medium parameters used (interpolated): f = 1851.25 MHz; $\sigma = 1.53$ mho/m; $\varepsilon_r = 51.9$; $\rho = 1000$

kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.55, 4.55, 4.55), Calibrated: 7/19/2012

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

Electronics: DAE4 Sn675, Calibrated: 5/23/2012 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 FLAT - BACK/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

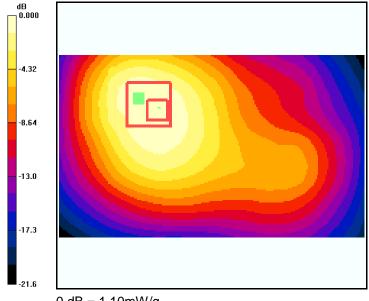
Maximum value of SAR (interpolated) = 1.10 mW/g

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

Reference Value = 17.5 V/m; Power Drift = 0.052 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.993 mW/g; SAR(10 g) = 0.617 mW/g Maximum value of SAR (measured) = 1.07 mW/g



0 dB = 1.10 mW/g



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FCC C5133 PCS Flat with 1cm Air Space, Back Ch. 600

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

Medium: M1800, Medium parameters used: f = 1880 MHz; $\sigma = 1.53 \text{ mho/m}$; $\varepsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.55, 4.55, 4.55), Calibrated: 7/19/2012

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

Electronics: DAE4 Sn675, Calibrated: 5/23/2012 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

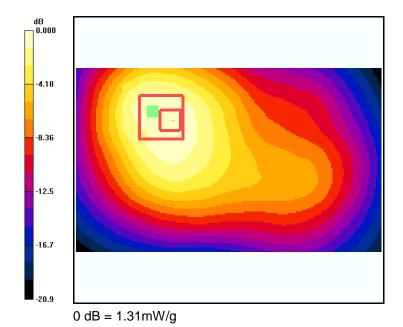
CDMA-1900 Ch600 FLAT - BACK/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.31 mW/g

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

Reference Value = 18.2 V/m; Power Drift = 0.105 dB

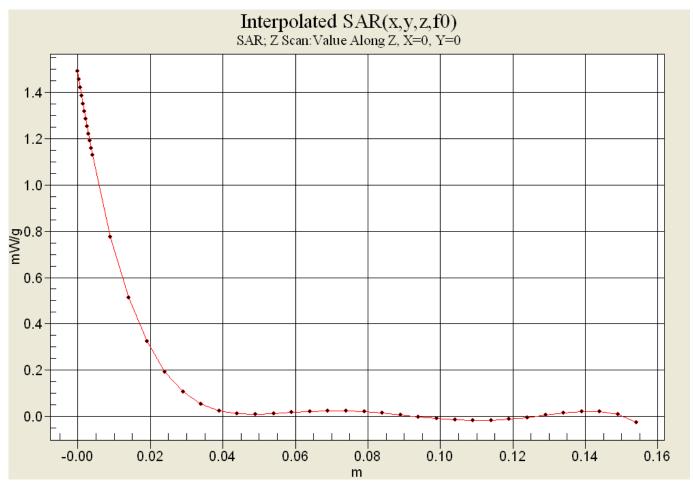
Peak SAR (extrapolated) = 1.81 W/kg

SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.706 mW/g Maximum value of SAR (measured) = 1.22 mW/g





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FCC C5133 PCS Flat with 1cm Air Space, Back Ch. 1175

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

Medium: M1800, Medium parameters used (interpolated): f = 1908.75 MHz; σ = 1.53 mho/m; ε_r = 51.9; ρ = 1000

kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.55, 4.55, 4.55), Calibrated: 7/19/2012

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

Electronics: DAE4 Sn675, Calibrated: 5/23/2012 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 FLAT - BACK/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

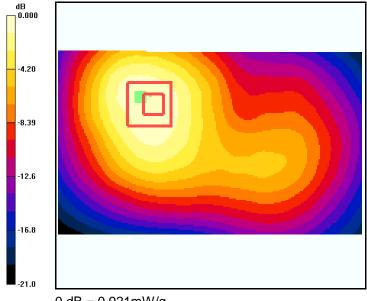
Maximum value of SAR (interpolated) = 0.921 mW/g

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

Reference Value = 14.2 V/m; Power Drift = -0.049 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.815 mW/g; SAR(10 g) = 0.506 mW/g Maximum value of SAR (measured) = 0.881 mW/g



0 dB = 0.921 mW/g



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FCC C5133 PCS Flat with 1cm Air Space, Left Ch. 600

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

Medium: M1800, Medium parameters used: f = 1880 MHz; $\sigma = 1.53 \text{ mho/m}$; $\varepsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.55, 4.55, 4.55), Calibrated: 7/19/2012

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 FLAT - Left/Area Scan (91x41x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.490 mW/g

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

Reference Value = 17.0 V/m; Power Drift = -0.093 dB

Peak SAR (extrapolated) = 0.727 W/kg

SAR(1 g) = 0.444 mW/g; SAR(10 g) = 0.258 mW/g

Maximum value of SAR (measured) = 0.488 mW/g

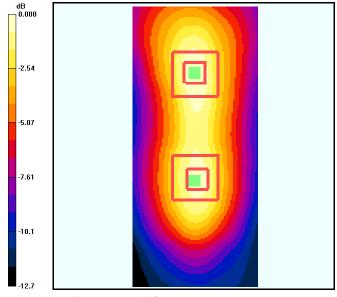
CDMA-1900 Ch600 FLAT - Left/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.0 V/m; Power Drift = -0.093 dB

Peak SAR (extrapolated) = 0.656 W/kg

SAR(1 g) = 0.415 mW/g; SAR(10 g) = 0.249 mW/g

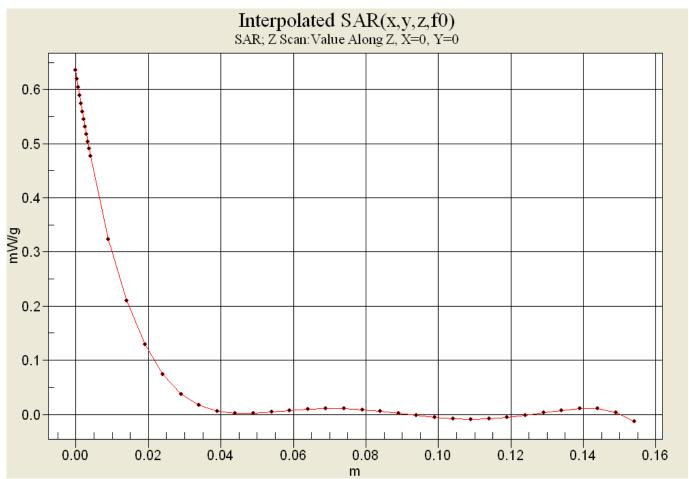
Maximum value of SAR (measured) = 0.455 mW/g



0 dB = 0.490 mW/g



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FCC C5133 PCS Flat with 1cm Air Space, Right Ch. 600

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

Medium: M1800, Medium parameters used: f = 1880 MHz; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.55, 4.55, 4.55), Calibrated: 7/19/2012

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

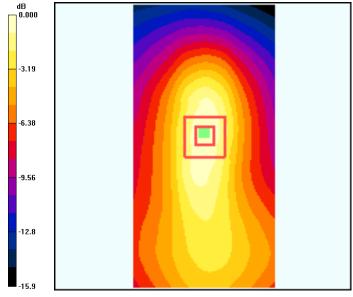
CDMA-1900 Ch600 FLAT - Right/Area Scan (101x51x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.357 mW/g

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

Reference Value = 15.3 V/m; Power Drift = 0.150 dB

Peak SAR (extrapolated) = 0.505 W/kg

SAR(1 g) = 0.321 mW/g; SAR(10 g) = 0.195 mW/g Maximum value of SAR (measured) = 0.353 mW/g



0 dB = 0.357 mW/g



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FCC C5133 PCS Flat with 1cm Air Space, Bottom Ch. 600

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

Medium: M1800, Medium parameters used: f = 1880 MHz; $\sigma = 1.53 \text{ mho/m}$; $\epsilon r = 51.9$; $\rho = 1000 \text{ kg/m}$ 3

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.55, 4.55, 4.55), Calibrated: 7/19/2012

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 FLAT - Bottom/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

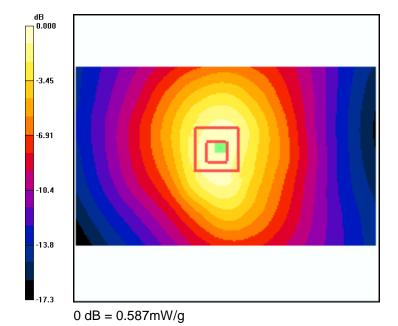
Maximum value of SAR (interpolated) = 0.587 mW/g

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

Reference Value = 19.5 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 0.873 W/kg

SAR(1 g) = 0.562 mW/g; SAR(10 g) = 0.338 mW/g Maximum value of SAR (measured) = 0.610 mW/g





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WIFI



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FCC C5133 WiFi Flat with 1cm Air Space, Front Ch. 11

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

Medium: M2450, Medium parameters used: f = 2500 MHz; $\sigma = 1.98 \text{ mho/m}$; $\varepsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.15, 4.15, 4.15), Calibrated: 7/19/2012

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

Electronics: DAE4 Sn675, Calibrated: 5/23/2012 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

802.11b 1Mbps ch11 Face UP/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.113 mW/g

802.11b 1Mbps ch11 Face UP/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.25 V/m; Power Drift = -0.131 dB

Peak SAR (extrapolated) = 0.186 W/kg

SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.017 mW/g

Maximum value of SAR (measured) = 0.109 mW/g

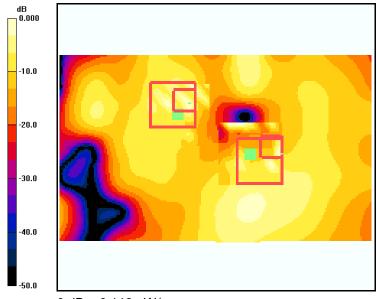
802.11b 1Mbps ch11 Face UP/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.25 V/m; Power Drift = -0.131 dB

Peak SAR (extrapolated) = 0.336 W/kg

SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.269 mW/g



0 dB = 0.113 mW/g



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FCC C5133 WiFi Flat with 1cm Air Space, Back Ch. 11

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

Medium: M2450, Medium parameters used: f = 2500 MHz; $\sigma = 1.98 \text{ mho/m}$; $\varepsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.15, 4.15, 4.15), Calibrated: 7/19/2012

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

Electronics: DAE4 Sn675, Calibrated: 5/23/2012 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

802.11b 1Mbps ch11 Face DOWN/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.714 mW/g

802.11b 1Mbps ch11 Face DOWN/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.52 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 2.09 W/kg

SAR(1 g) = 0.247 mW/g; SAR(10 g) = 0.079 mW/g

Maximum value of SAR (measured) = 1.16 mW/g

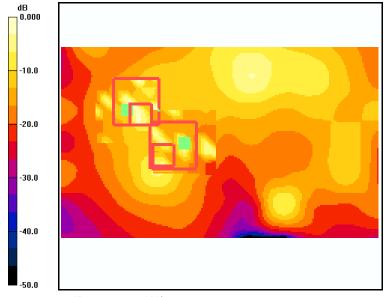
802.11b 1Mbps ch11 Face DOWN/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.52 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 0.693 W/kg

SAR(1 g) = 0.156 mW/g; SAR(10 g) = 0.067 mW/g

Maximum value of SAR (measured) = 0.659 mW/g



0 dB = 0.714 mW/g



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FCC C5133 WiFi Flat with 1cm Air Space, Left Ch. 11

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

Medium: M2450, Medium parameters used: f = 2500 MHz; $\sigma = 1.98 \text{ mho/m}$; $\varepsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.15, 4.15, 4.15), Calibrated: 7/19/2012

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

Electronics: DAE4 Sn675, Calibrated: 5/23/2012 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 FLAT -Left/Area Scan (101x31x1): Measurement grid: dx=15mm, dy=15mm

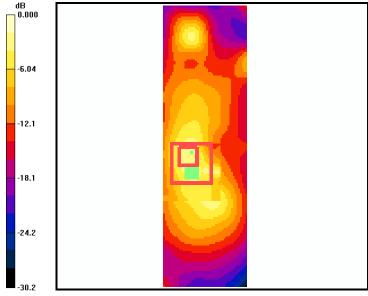
Maximum value of SAR (interpolated) = 0.626 mW/g

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

Reference Value = 11.3 V/m; Power Drift = -0.198 dB

Peak SAR (extrapolated) = 0.712 W/kg

SAR(1 g) = 0.317 mW/g; SAR(10 g) = 0.139 mW/g Maximum value of SAR (measured) = 0.392 mW/g



0 dB = 0.626 mW/g



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