

Test Laboratory: Compliance Certification Services

Panasonic Laptop

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS - ch 661 - 1 slot/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.188 mW/g

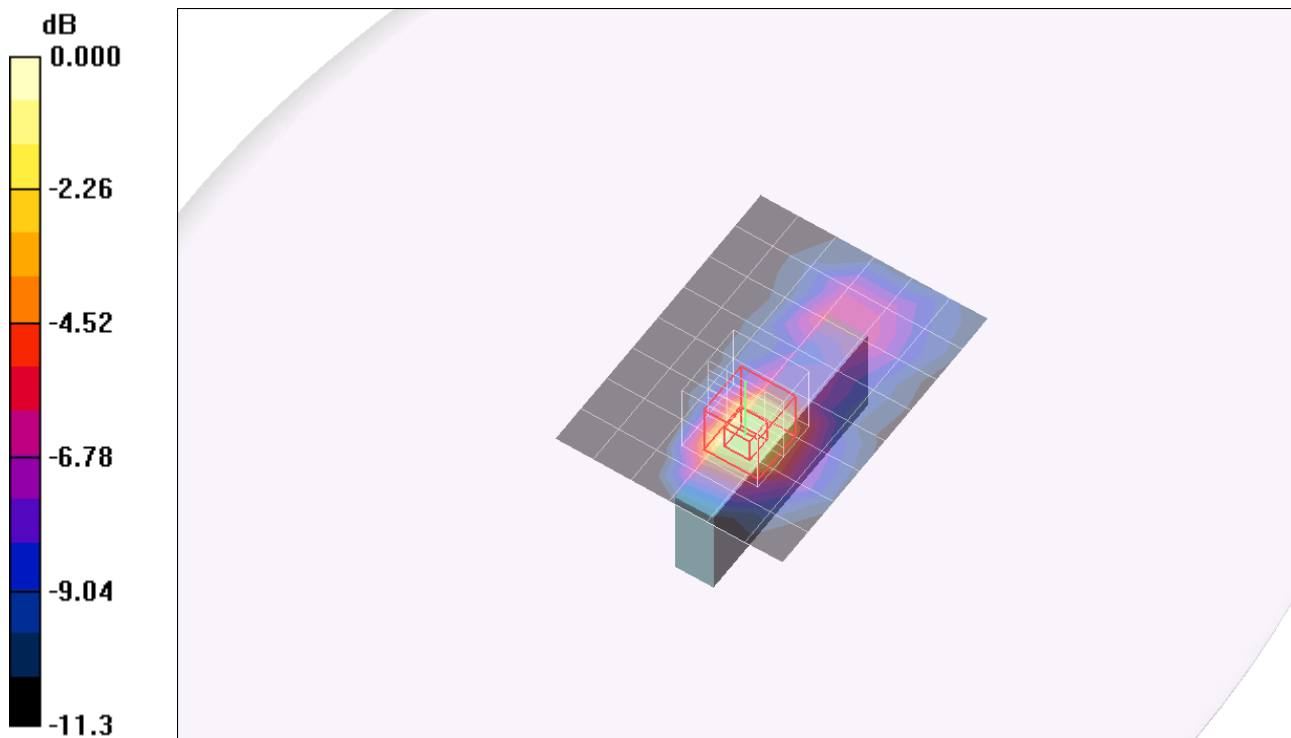
GPRS - ch 661 - 1 slot/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.84 V/m; Power Drift = 0.191 dB

Peak SAR (extrapolated) = 0.364 W/kg

SAR(1 g) = 0.224 mW/g; SAR(10 g) = 0.124 mW/g

Maximum value of SAR (measured) = 0.252 mW/g



Test Laboratory: Compliance Certification Services

Panasonic Laptop

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 22.0deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS - ch 661 - 2 slots/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.351 mW/g

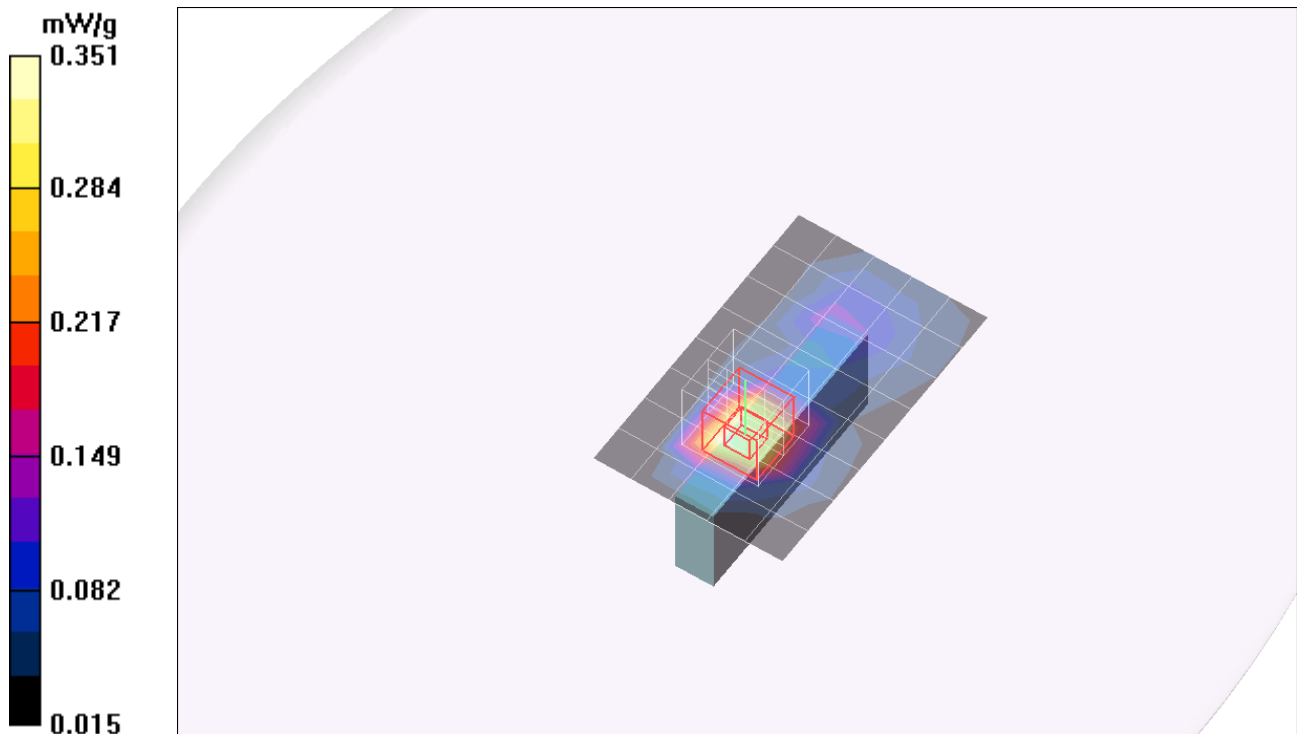
GPRS - ch 661 - 2 slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 18.0 V/m; Power Drift = -0.118 dB

Peak SAR (extrapolated) = 0.685 W/kg

SAR(1 g) = 0.424 mW/g; SAR(10 g) = 0.229 mW/g

Maximum value of SAR (measured) = 0.476 mW/g



Test Laboratory: Compliance Certification Services

Panasonic Laptop

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2.67
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS - ch 661 - 3 slots/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.509 mW/g

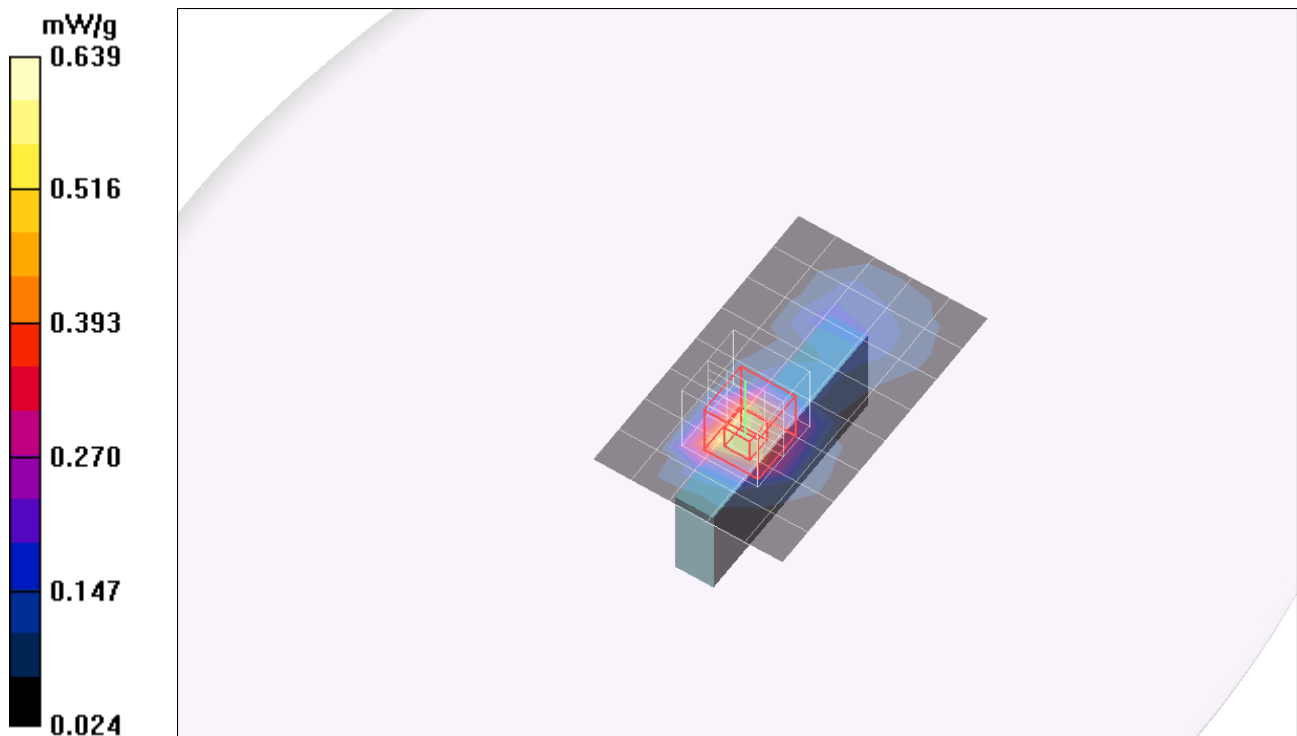
GPRS - ch 661 - 3 slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 21.8 V/m; Power Drift = -0.175 dB

Peak SAR (extrapolated) = 0.940 W/kg

SAR(1 g) = 0.568 mW/g; SAR(10 g) = 0.305 mW/g

Maximum value of SAR (measured) = 0.639 mW/g



Test Laboratory: Compliance Certification Services

Panasonic Laptop

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:2

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 54.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS - ch 512 - 4 slots/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.744 mW/g

GPRS - ch 512 - 4 slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

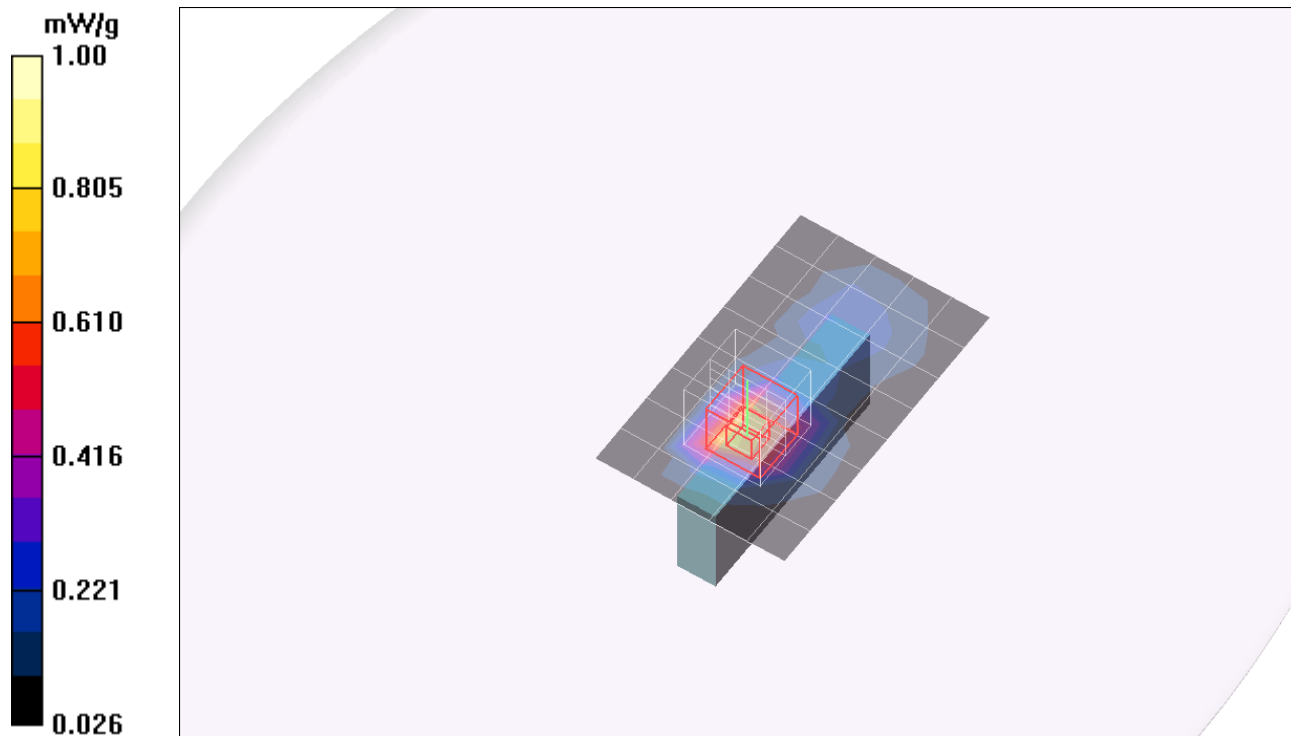
Reference Value = 26.7 V/m; Power Drift = -0.186 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.883 mW/g; SAR(10 g) = 0.475 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.00 mW/g



Test Laboratory: Compliance Certification Services

Panasonic Laptop

DUT: USB Modem; Type: N/A;Serial: N/A

Communication System: DCS 1900;Frequency: 1880 MHz;Duty Cycle: 1:2
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room AmbientTemperature: 22.0deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS - ch 661 - 4 slots/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.617 mW/g

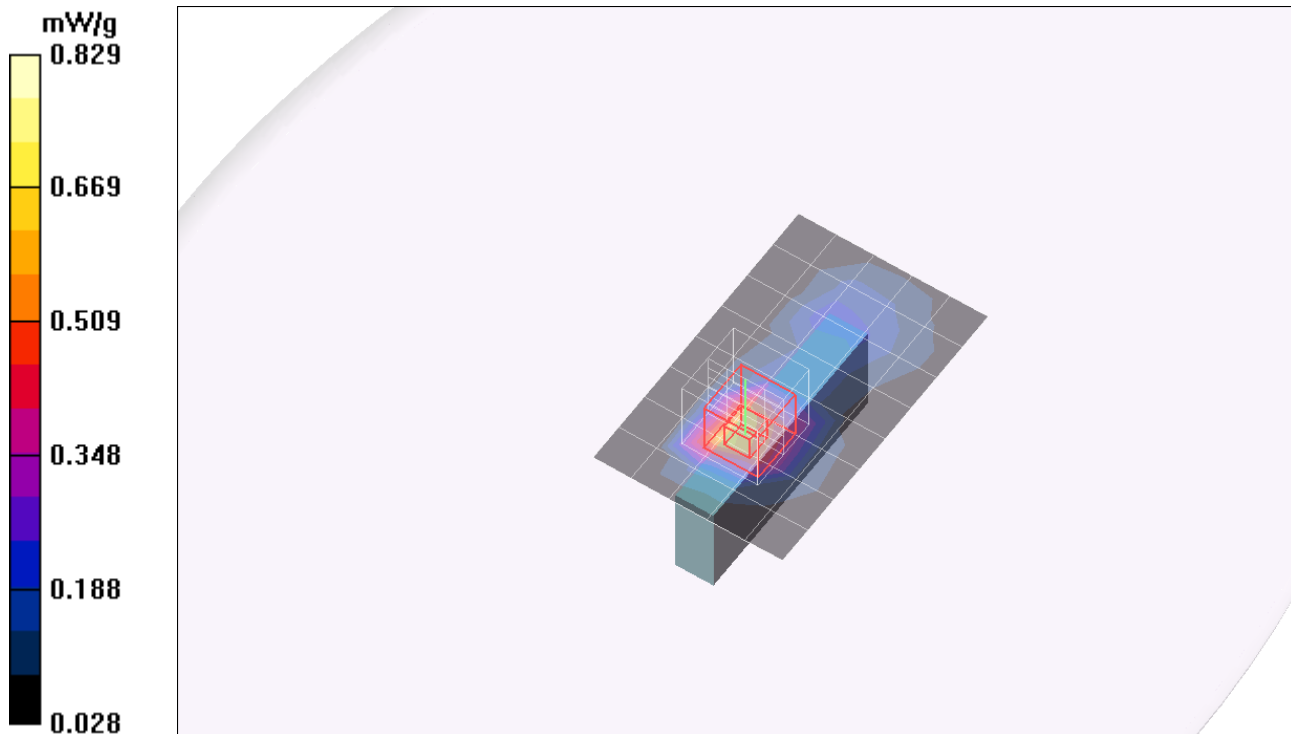
GPRS - ch 661 - 4 slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 23.7 V/m; Power Drift = -0.144 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.734 mW/g; SAR(10 g) = 0.391 mW/g

Maximum value of SAR (measured) = 0.829 mW/g



Test Laboratory: Compliance Certification Services

Panasonic Laptop

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2
Medium parameters used: $f = 1910$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS - ch 810 - 4 slots/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.596 mW/g

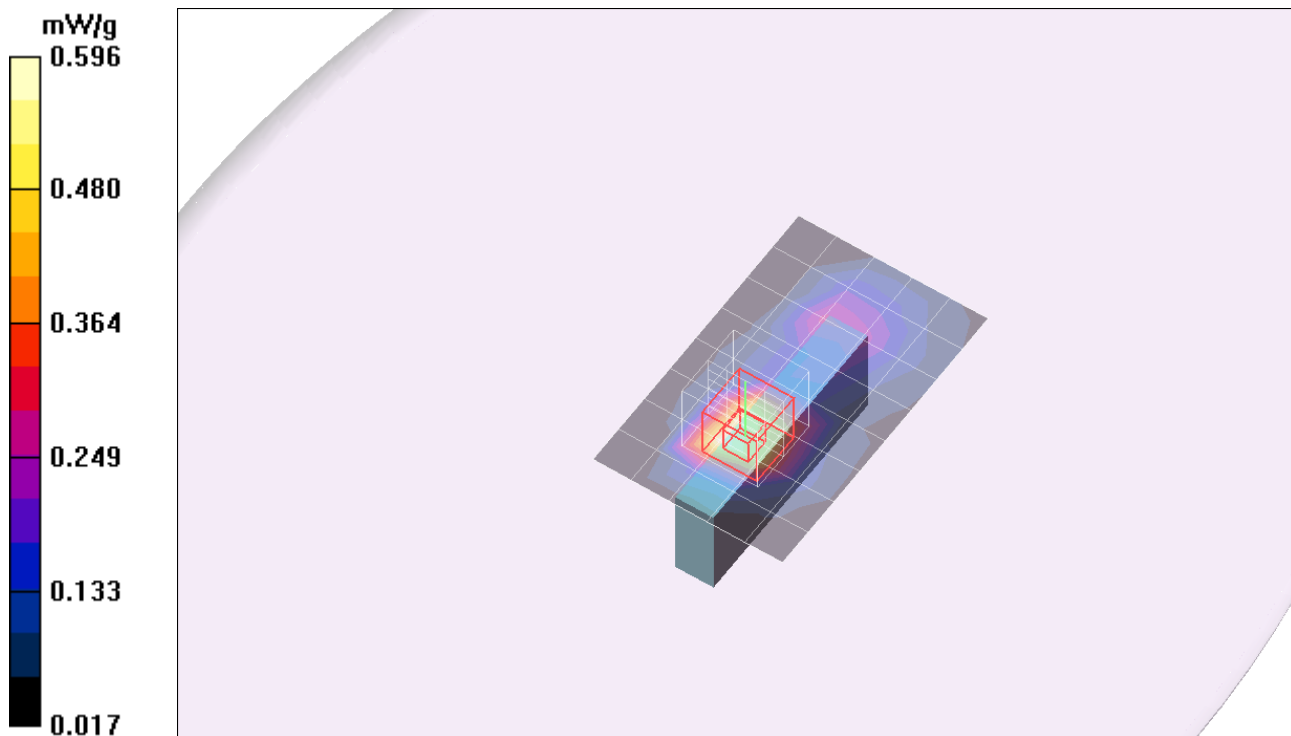
GPRS - ch 810 - 4 slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 23.1 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.707 mW/g; SAR(10 g) = 0.374 mW/g

Maximum value of SAR (measured) = 0.802 mW/g



Test Laboratory: Compliance Certification Services

Panasonic Laptop

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

EGPRS - ch 661 - 4 slots/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.374 mW/g

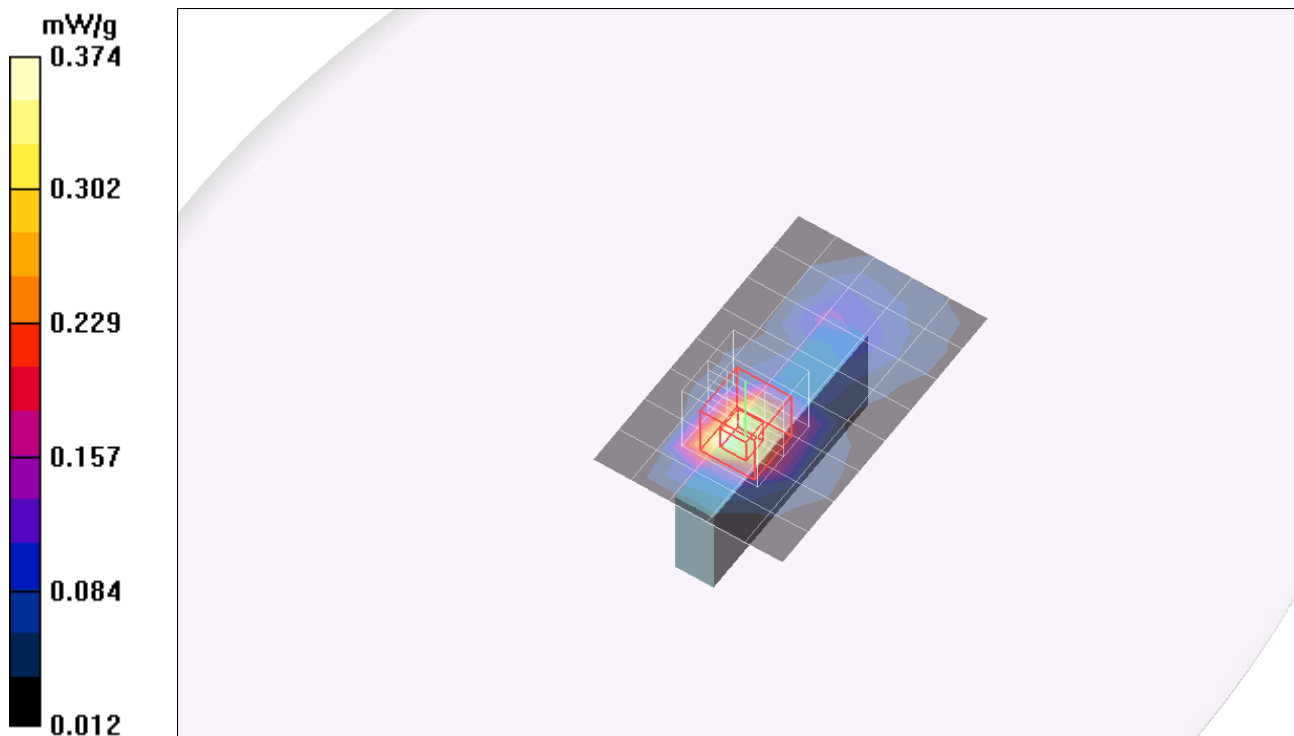
EGPRS - ch 661 - 4 slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 17.9 V/m; Power Drift = -0.095 dB

Peak SAR (extrapolated) = 0.681 W/kg

SAR(1 g) = 0.414 mW/g; SAR(10 g) = 0.221 mW/g

Maximum value of SAR (measured) = 0.459 mW/g



Test Laboratory: Compliance Certification Services

Panasonic Laptop

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

WCDMA - ch 9400/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.542 mW/g

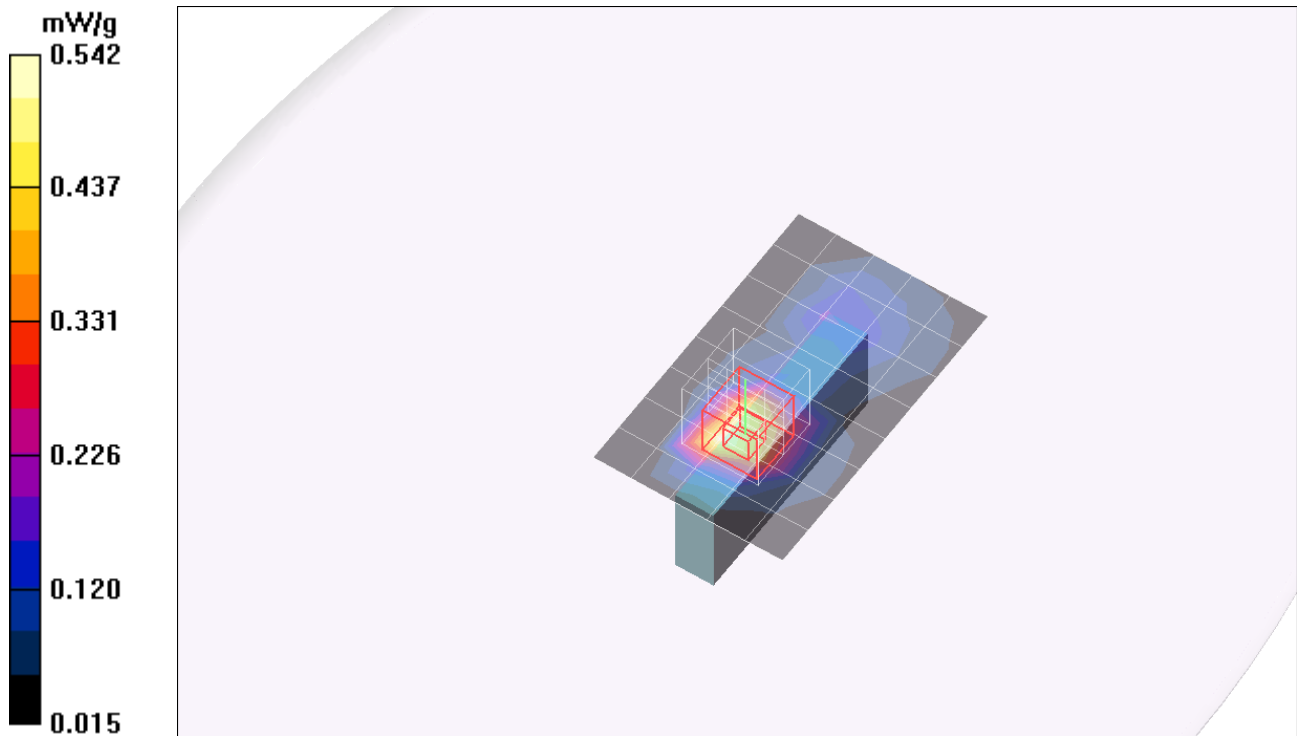
WCDMA - ch 9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 21.7 V/m; Power Drift = -0.163 dB

Peak SAR (extrapolated) = 0.819 W/kg

SAR(1 g) = 0.501 mW/g; SAR(10 g) = 0.270 mW/g

Maximum value of SAR (measured) = 0.565 mW/g



Test Laboratory: Compliance Certification Services

Panasonic Laptop - side open

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS - ch 661 - 4 slots/Area Scan (10x6x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.648 mW/g

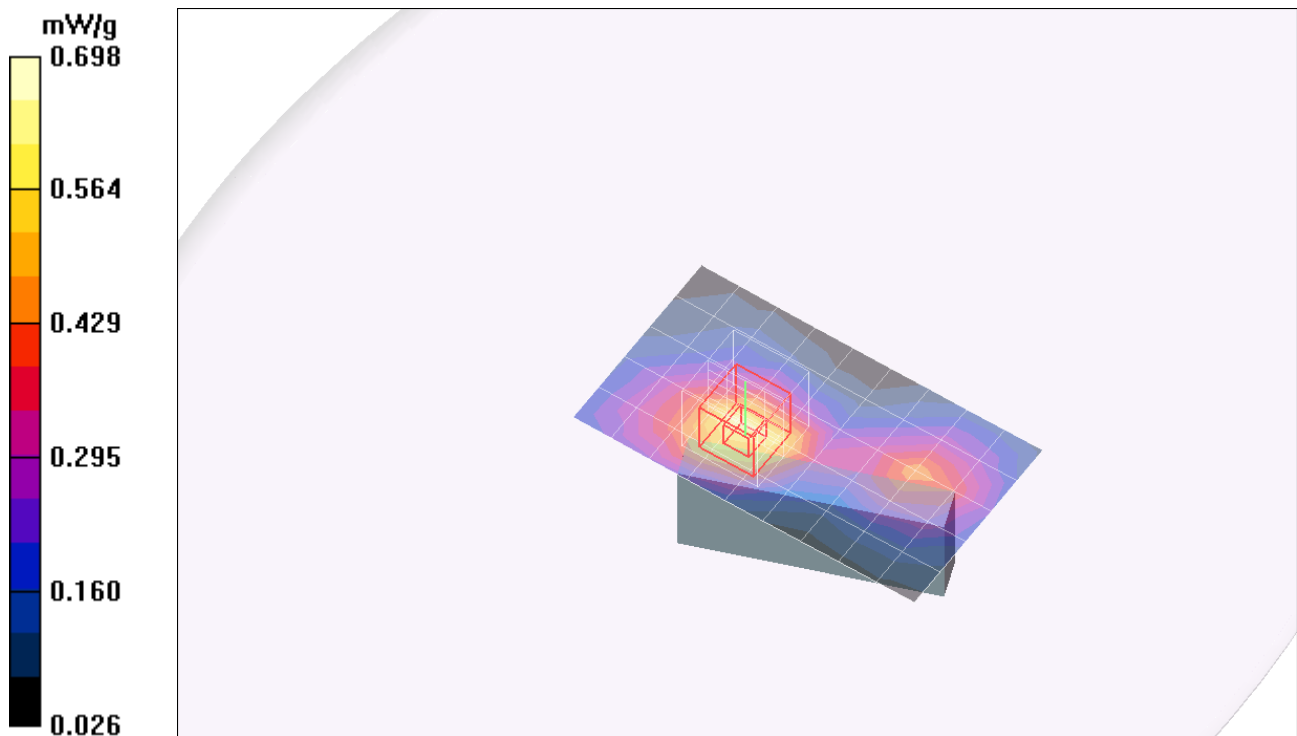
GPRS - ch 661 - 4 slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 20.8 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 0.954 W/kg

SAR(1 g) = 0.634 mW/g; SAR(10 g) = 0.388 mW/g

Maximum value of SAR (measured) = 0.698 mW/g



Test Laboratory: Compliance Certification Services

Panasonic Laptop - side open

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

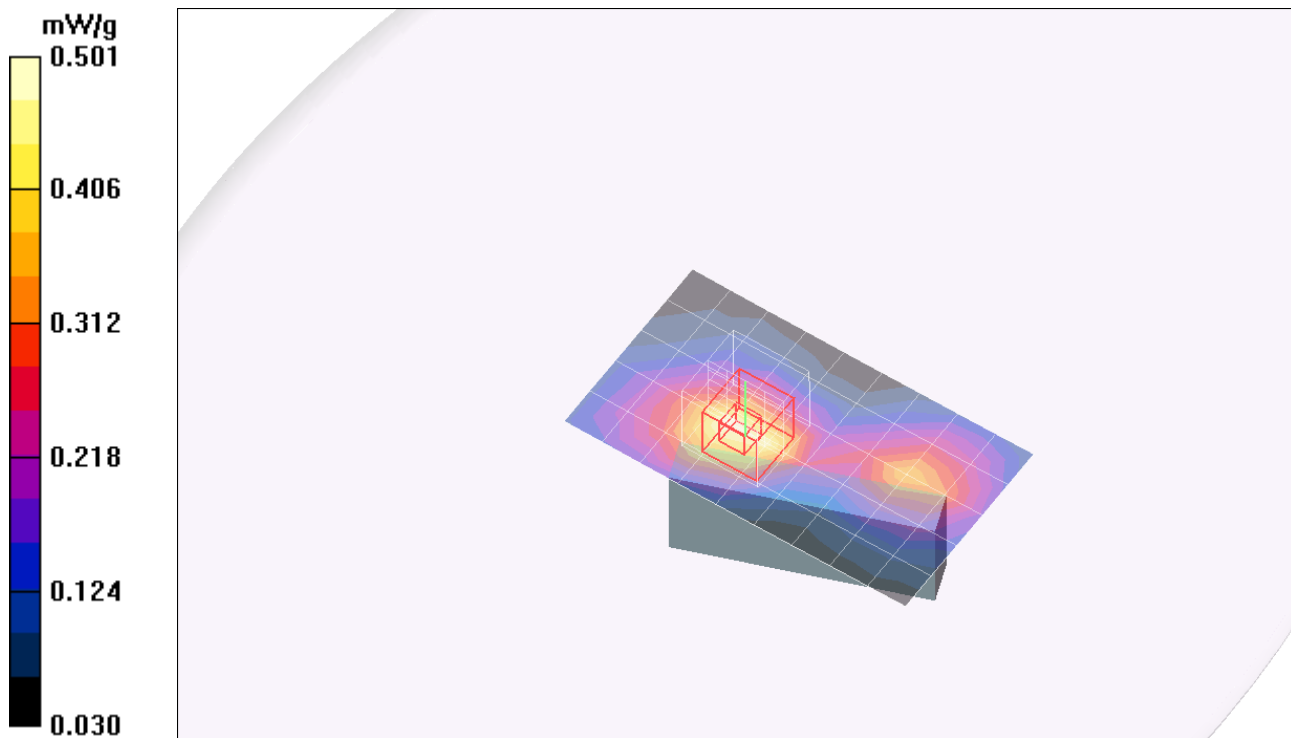
Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

WCDMA - 9400/Area Scan (10x6x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.501 mW/g

WCDMA - 9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 18.8 V/m; Power Drift = -0.139 dB
Peak SAR (extrapolated) = 0.770 W/kg
SAR(1 g) = 0.553 mW/g; SAR(10 g) = 0.324 mW/g
Maximum value of SAR (measured) = 0.583 mW/g



Test Laboratory: Compliance Certification Services

Toshiba Laptop - Vertical Position

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS - ch 661 - 4 slots/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.209 mW/g

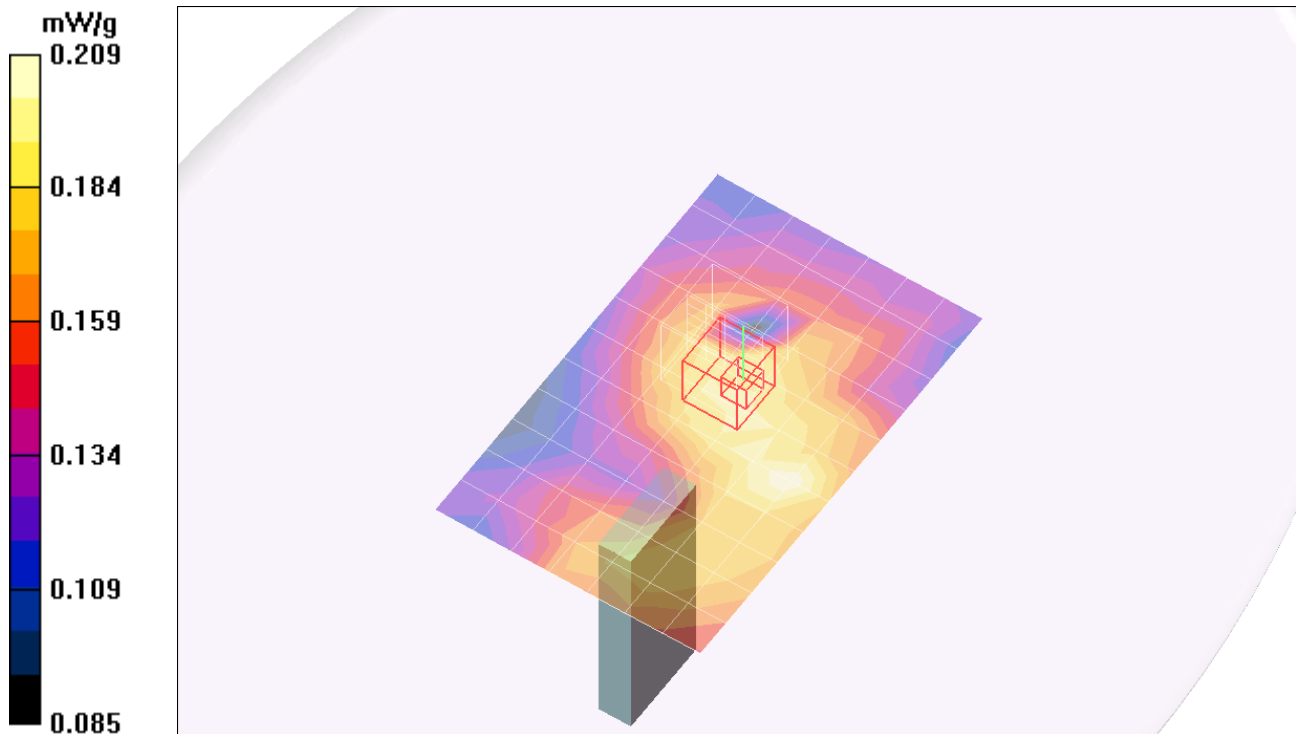
GPRS - ch 661 - 4 slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.07 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 0.242 W/kg

SAR(1 g) = 0.191 mW/g; SAR(10 g) = 0.164 mW/g

Maximum value of SAR (measured) = 0.200 mW/g



Test Laboratory: Compliance Certification Services

Toshiba Laptop - Vertical Position

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

EGPRS - ch 661 - 4 slots/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.156 mW/g

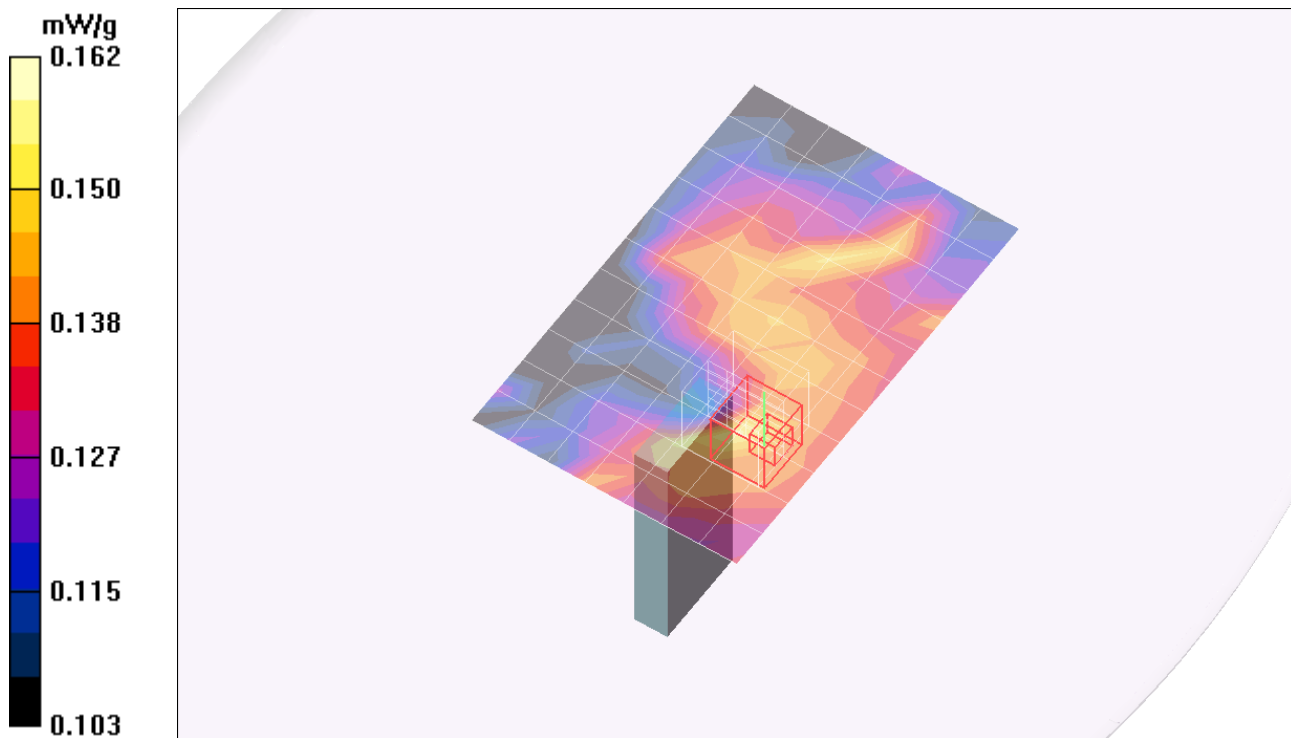
EGPRS - ch 661 - 4 slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.55 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 0.225 W/kg

SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.130 mW/g

Maximum value of SAR (measured) = 0.162 mW/g



Test Laboratory: Compliance Certification Services

Toshiba Laptop - Vertical Position

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

WCDMA - ch 9400/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.187 mW/g

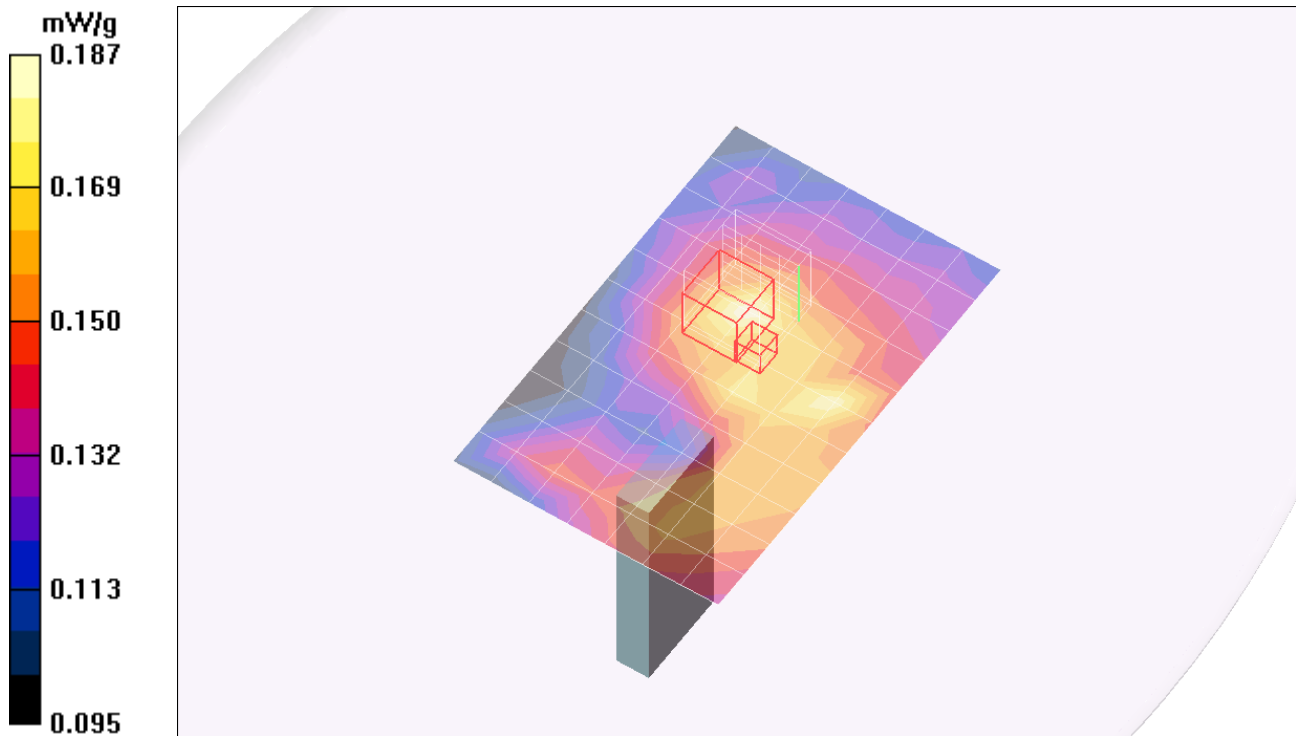
WCDMA - ch 9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.00 V/m; Power Drift = -0.069 dB

Peak SAR (extrapolated) = 0.228 W/kg

SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.133 mW/g

Maximum value of SAR (measured) = 0.179 mW/g



Test Laboratory: Compliance Certification Services

Toshiba Laptop - Horizontal Position

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

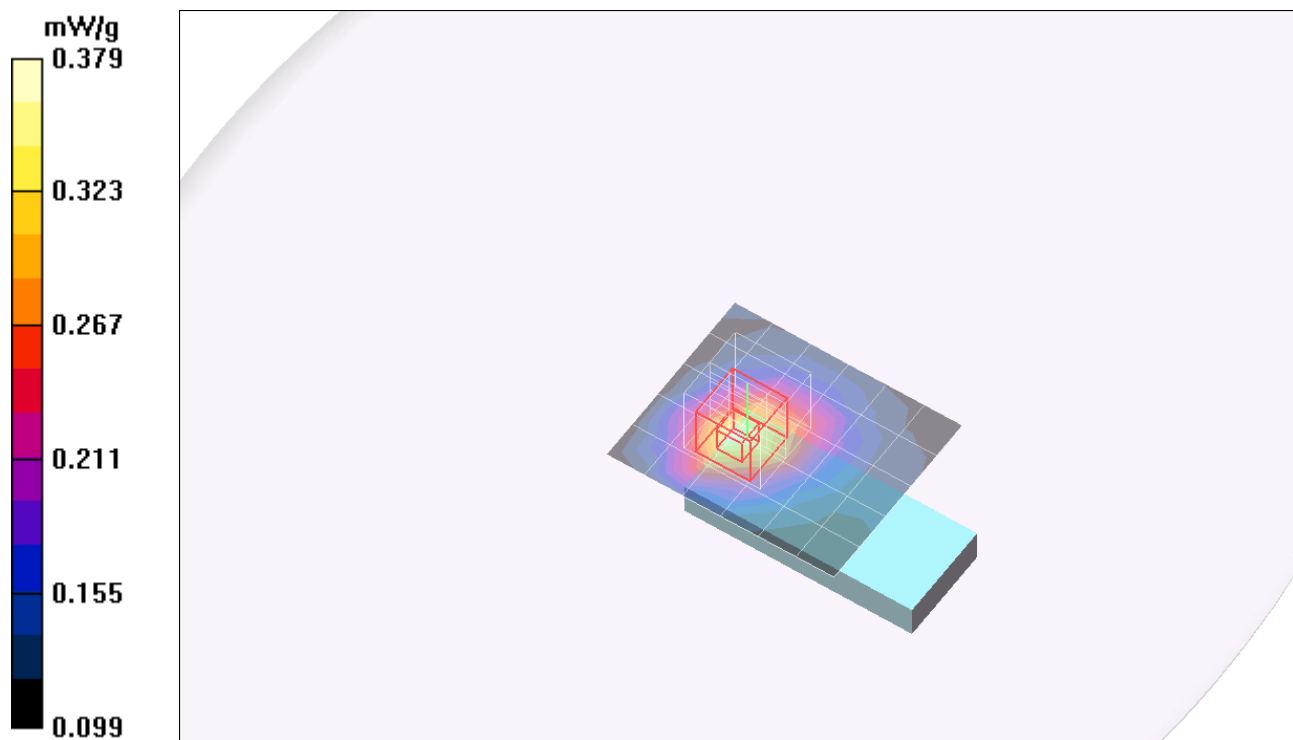
Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS - ch 661 - 1 slot/Area Scan (7x6x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.379 mW/g

GPRS - ch 661 - 1 slot/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.9 V/m; Power Drift = -0.069 dB
Peak SAR (extrapolated) = 0.458 W/kg
SAR(1 g) = 0.357 mW/g; SAR(10 g) = 0.260 mW/g
Maximum value of SAR (measured) = 0.375 mW/g



Test Laboratory: Compliance Certification Services

Toshiba Laptop - Horizontal Position

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS - ch 661 - 2 slots/Area Scan (7x6x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.629 mW/g

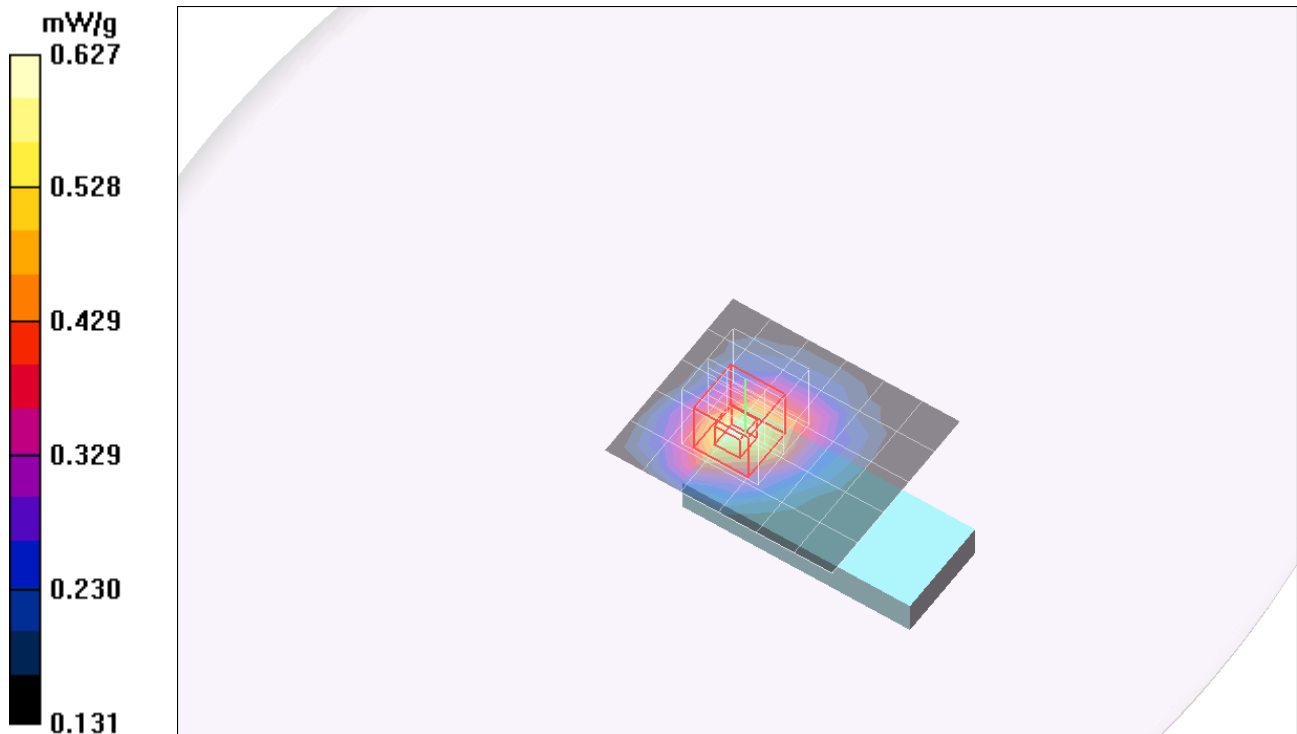
GPRS - ch 661 - 2 slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 20.6 V/m; Power Drift = -0.088 dB

Peak SAR (extrapolated) = 0.767 W/kg

SAR(1 g) = 0.589 mW/g; SAR(10 g) = 0.403 mW/g

Maximum value of SAR (measured) = 0.627 mW/g



Test Laboratory: Compliance Certification Services

Toshiba Laptop - Horizontal Position

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:2.67

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS - ch 512 - 3 slots/Area Scan (7x6x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.959 mW/g

GPRS - ch 512 - 3 slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

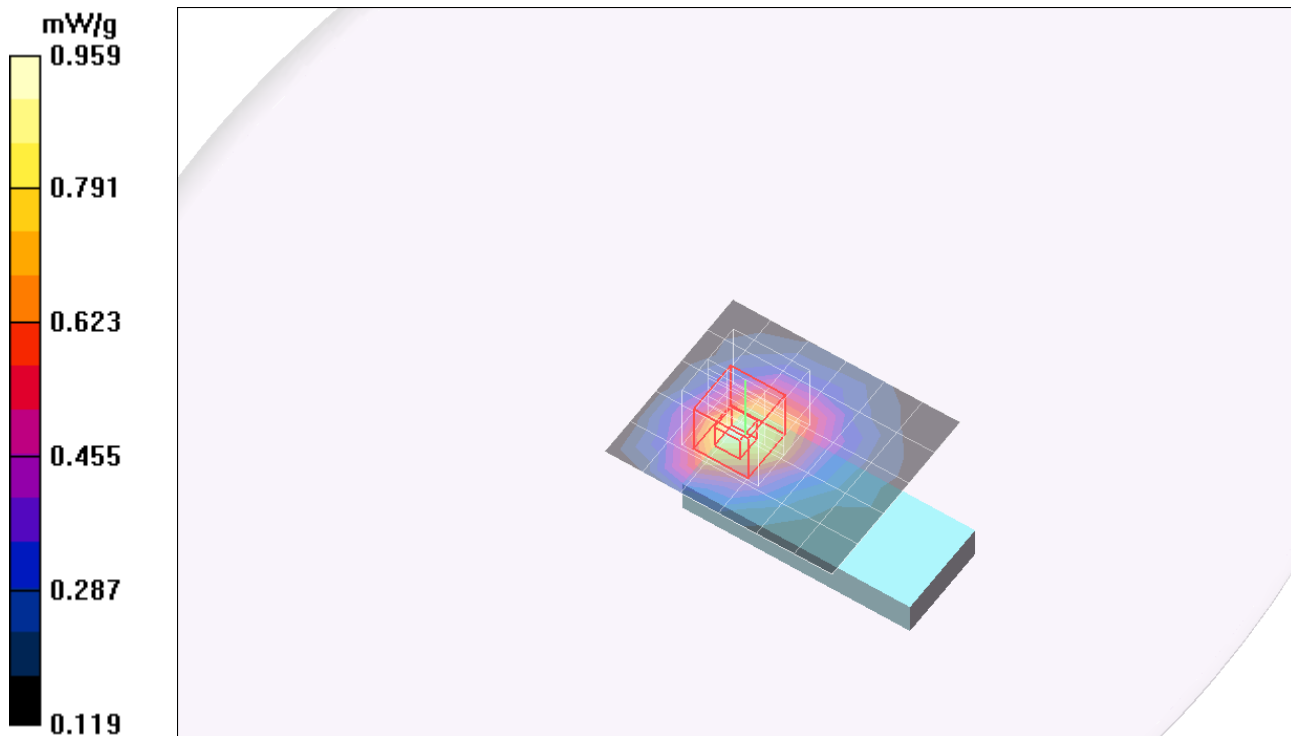
Reference Value = 23.9 V/m; Power Drift = -0.044 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.780 mW/g; SAR(10 g) = 0.519 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.831 mW/g



Test Laboratory: Compliance Certification Services

Toshiba Laptop - Horizontal Position

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2.67
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS - ch 661 - 3 slots/Area Scan (7x6x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.888 mW/g

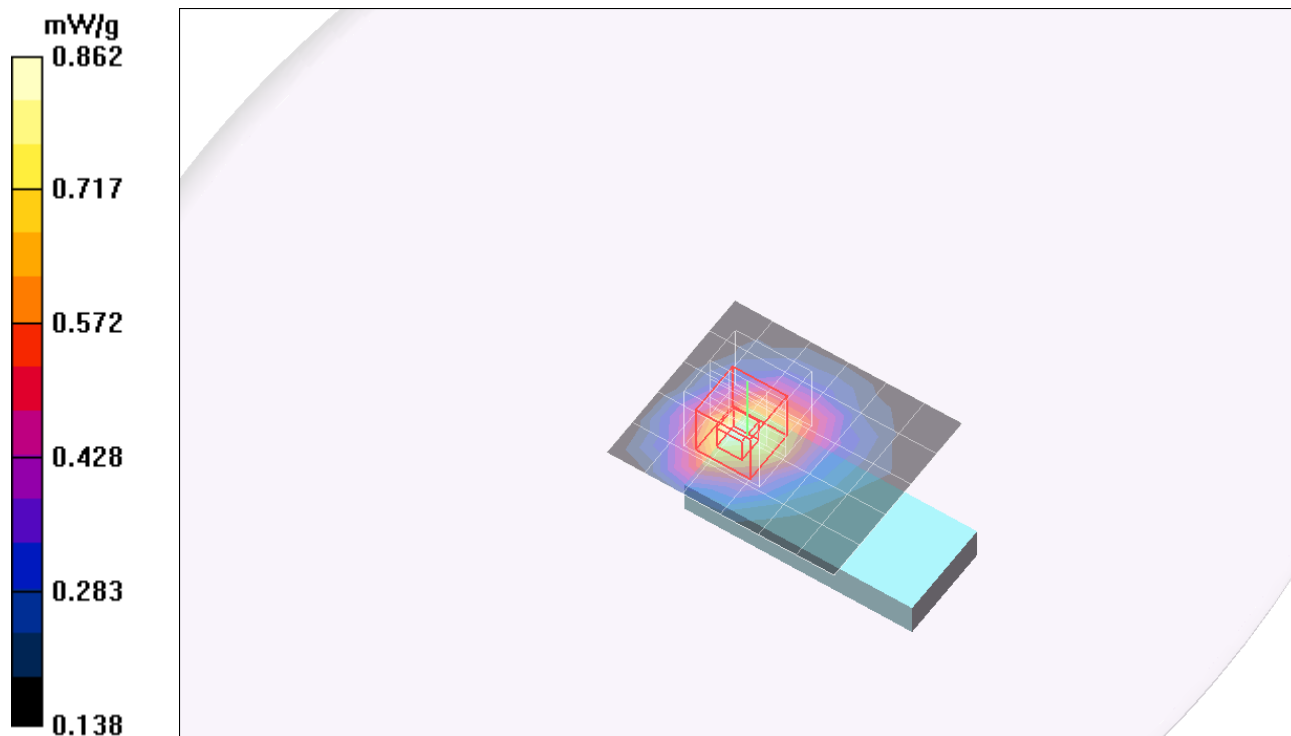
GPRS - ch 661 - 3 slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.3 V/m; Power Drift = -0.056 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.808 mW/g; SAR(10 g) = 0.538 mW/g

Maximum value of SAR (measured) = 0.862 mW/g



Test Laboratory: Compliance Certification Services

Toshiba Laptop - Horizontal Position

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2.67
Medium parameters used: $f = 1910 \text{ MHz}$; $\sigma = 1.59 \text{ mho/m}$; $\epsilon_r = 54.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

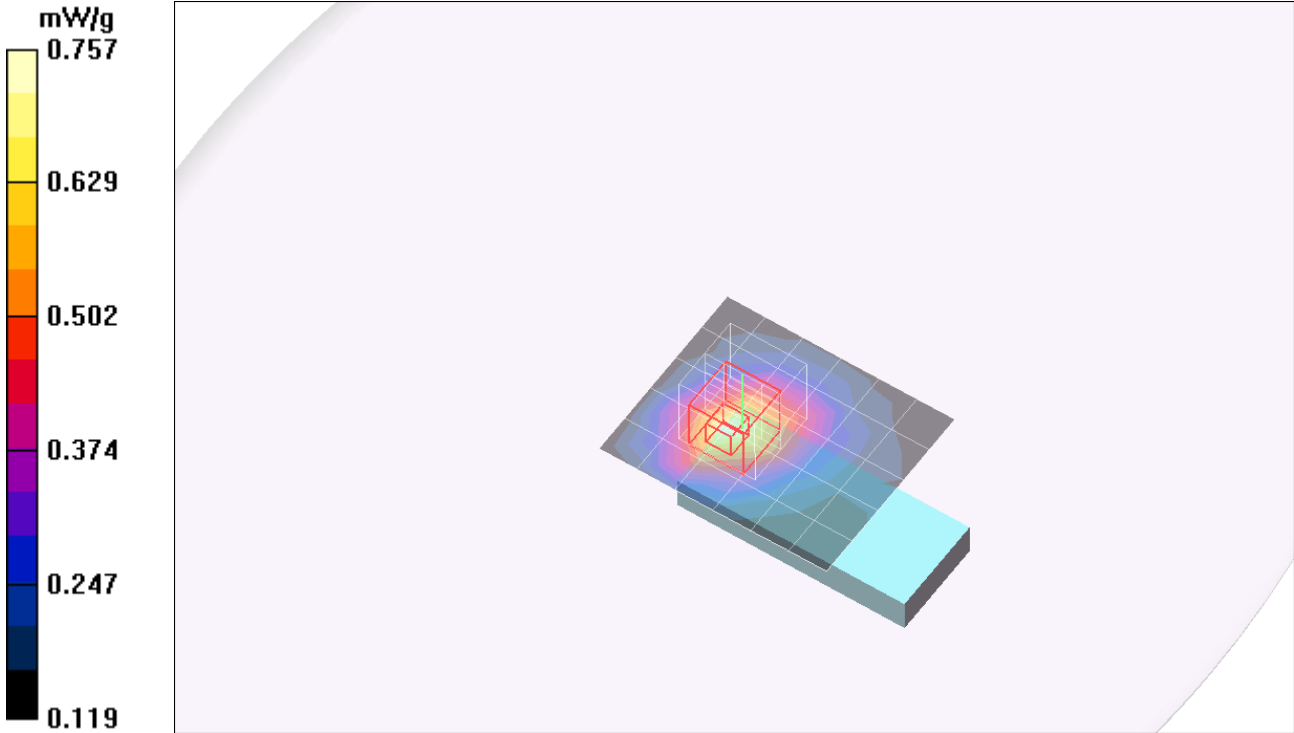
Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS - ch 810 - 3 slots 2/Area Scan (7x6x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.757 mW/g

GPRS - ch 810 - 3 slots 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 22.2 V/m; Power Drift = -0.005 dB
Peak SAR (extrapolated) = 0.976 W/kg
SAR(1 g) = 0.699 mW/g; SAR(10 g) = 0.469 mW/g
Maximum value of SAR (measured) = 0.732 mW/g



Test Laboratory: Compliance Certification Services

Toshiba Laptop - Horizontal Position

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:2
Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS - ch 512 - 4 slots/Area Scan (7x6x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.24 mW/g

GPRS - ch 512 - 4 slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

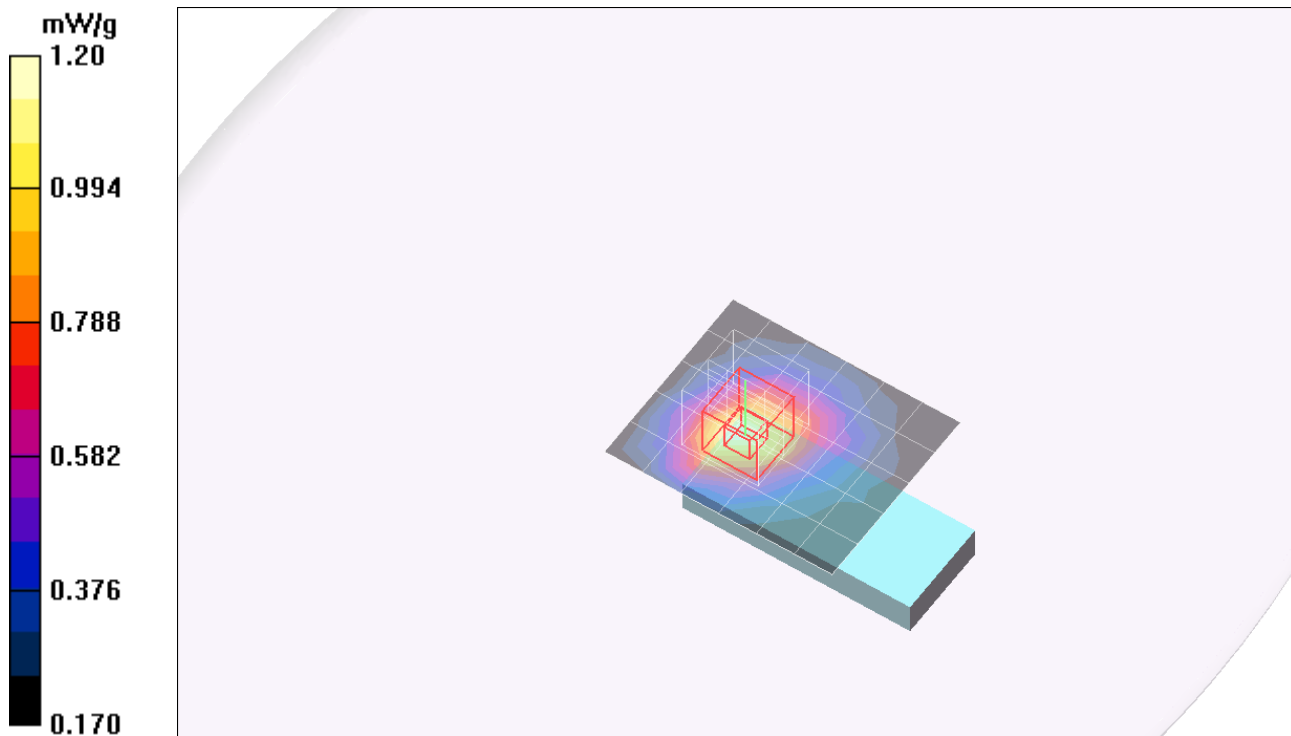
Reference Value = 24.0 V/m; Power Drift = -0.102 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.725 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.20 mW/g



Test Laboratory: Compliance Certification Services

Toshiba Laptop - Horizontal Position

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS - ch 661 - 4 slots/Area Scan (10x6x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.24 mW/g

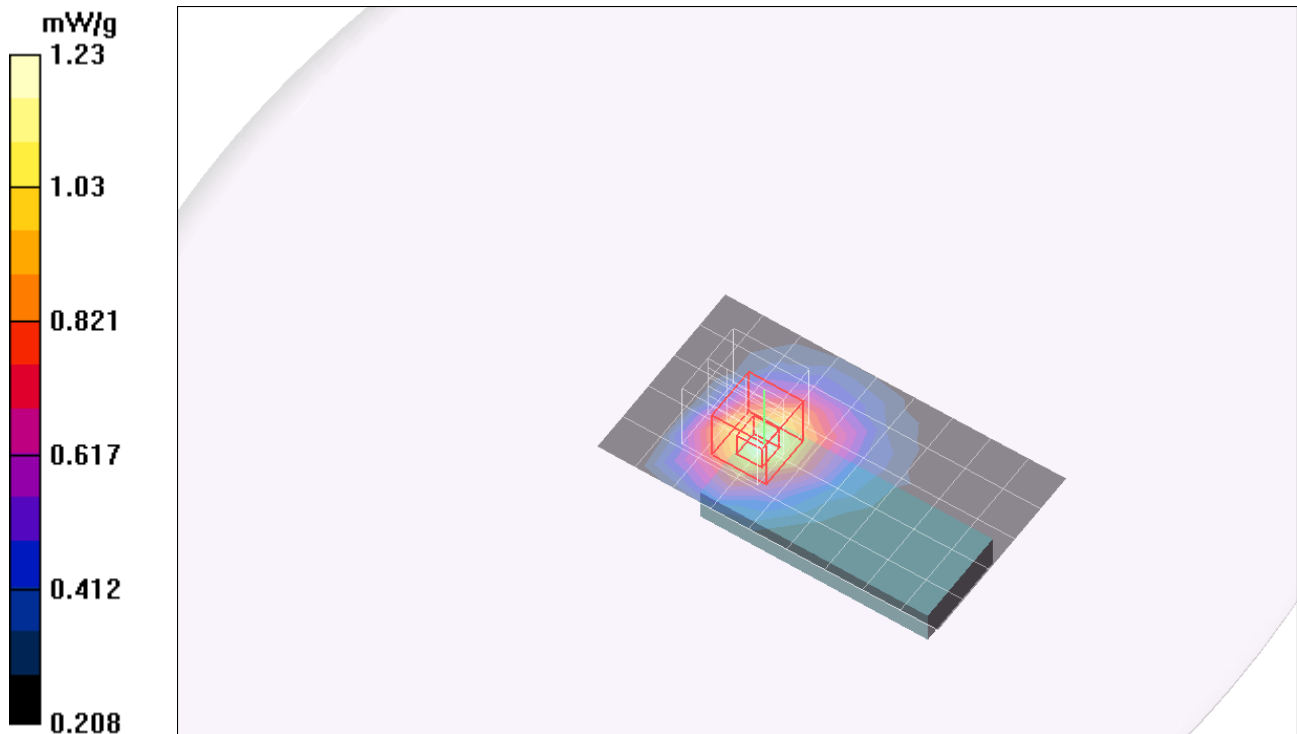
GPRS - ch 661 - 4 slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.3 V/m; Power Drift = -0.156 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.785 mW/g

Maximum value of SAR (measured) = 1.23 mW/g



Test Laboratory: Compliance Certification Services

Toshiba Laptop - Horizontal Position

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2
Medium parameters used: $f = 1910$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS - ch 810 - 4 slots/Area Scan (7x6x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.968 mW/g

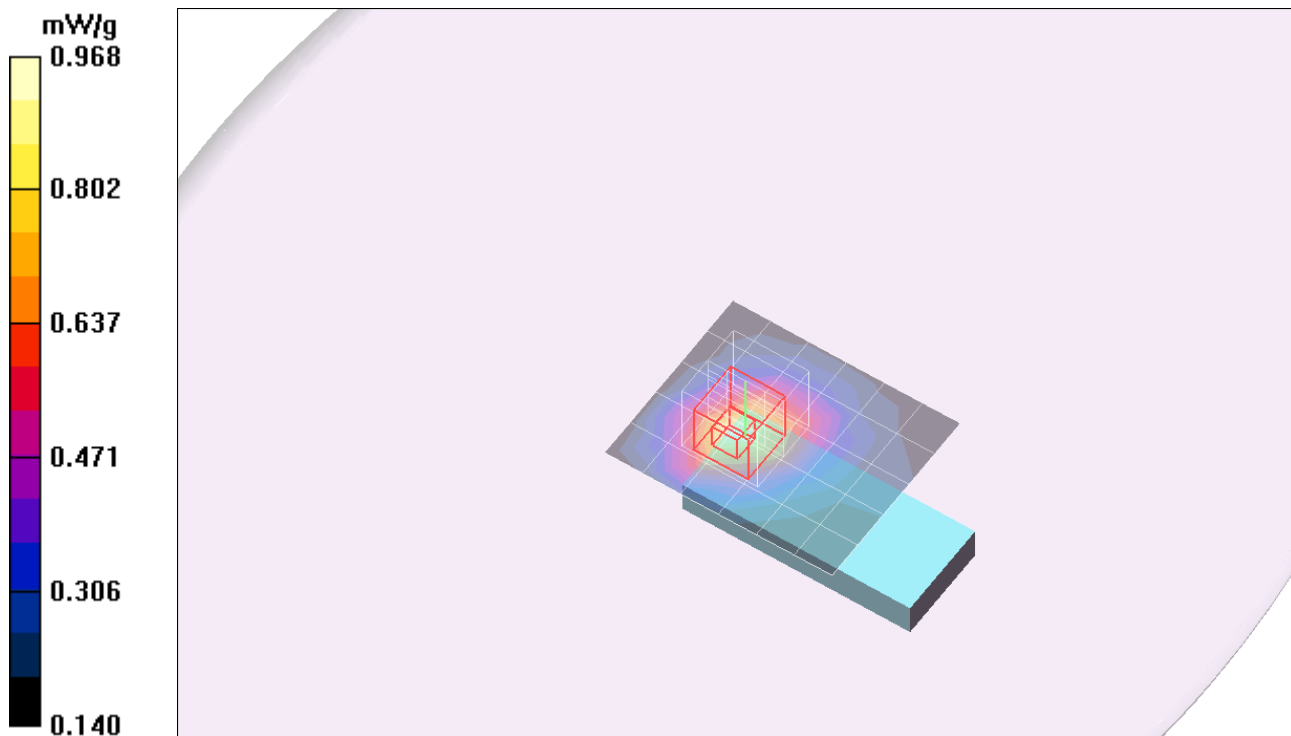
GPRS - ch 810 - 4 slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 26.6 V/m; Power Drift = -0.128 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.897 mW/g; SAR(10 g) = 0.590 mW/g

Maximum value of SAR (measured) = 0.939 mW/g



Test Laboratory: Compliance Certification Services

Toshiba Laptop - Horizontal Position

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

EGPRS - ch 661 - 4 slots/Area Scan (7x6x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.679 mW/g

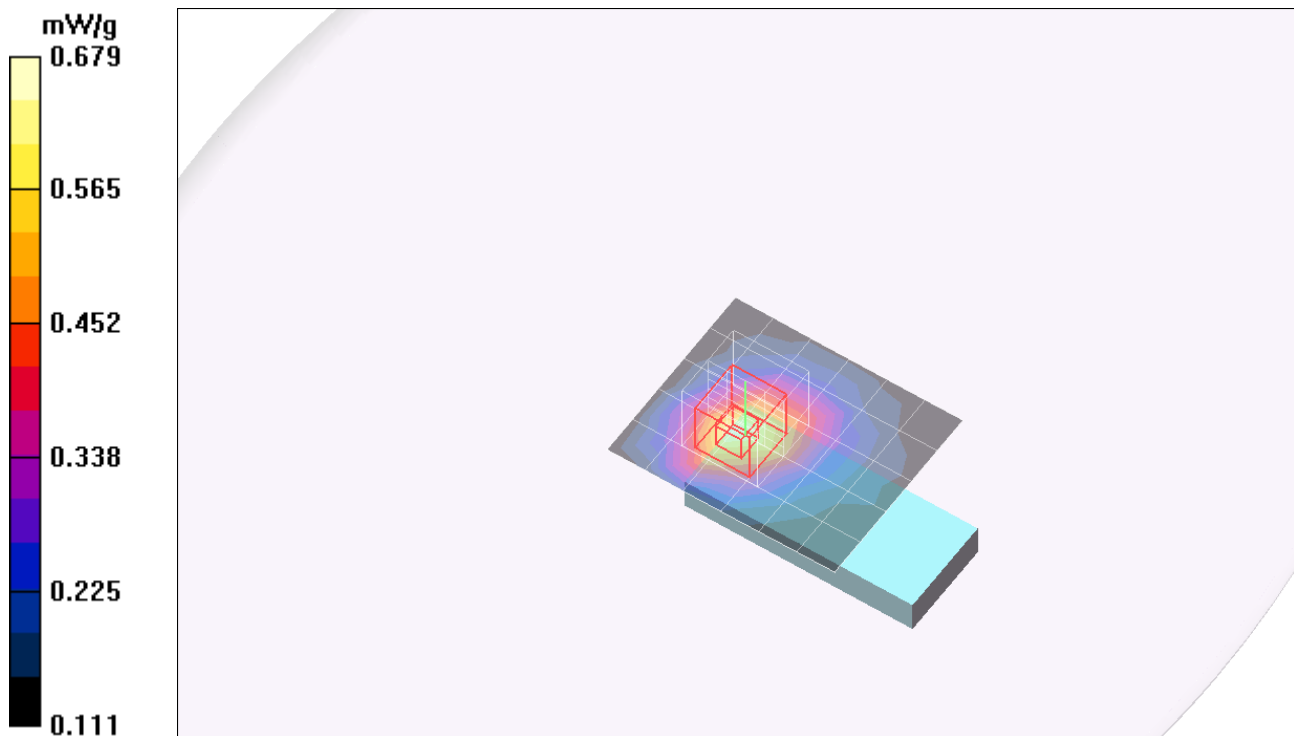
EGPRS - ch 661 - 4 slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 21.2 V/m; Power Drift = -0.228 dB

Peak SAR (extrapolated) = 0.875 W/kg

SAR(1 g) = 0.621 mW/g; SAR(10 g) = 0.417 mW/g

Maximum value of SAR (measured) = 0.671 mW/g



Test Laboratory: Compliance Certification Services

Toshiba Laptop - Horizontal Position

DUT: USB Modem; Type: N/A; Serial: N/A

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

WCDMA - ch 9400/Area Scan (7x6x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.886 mW/g

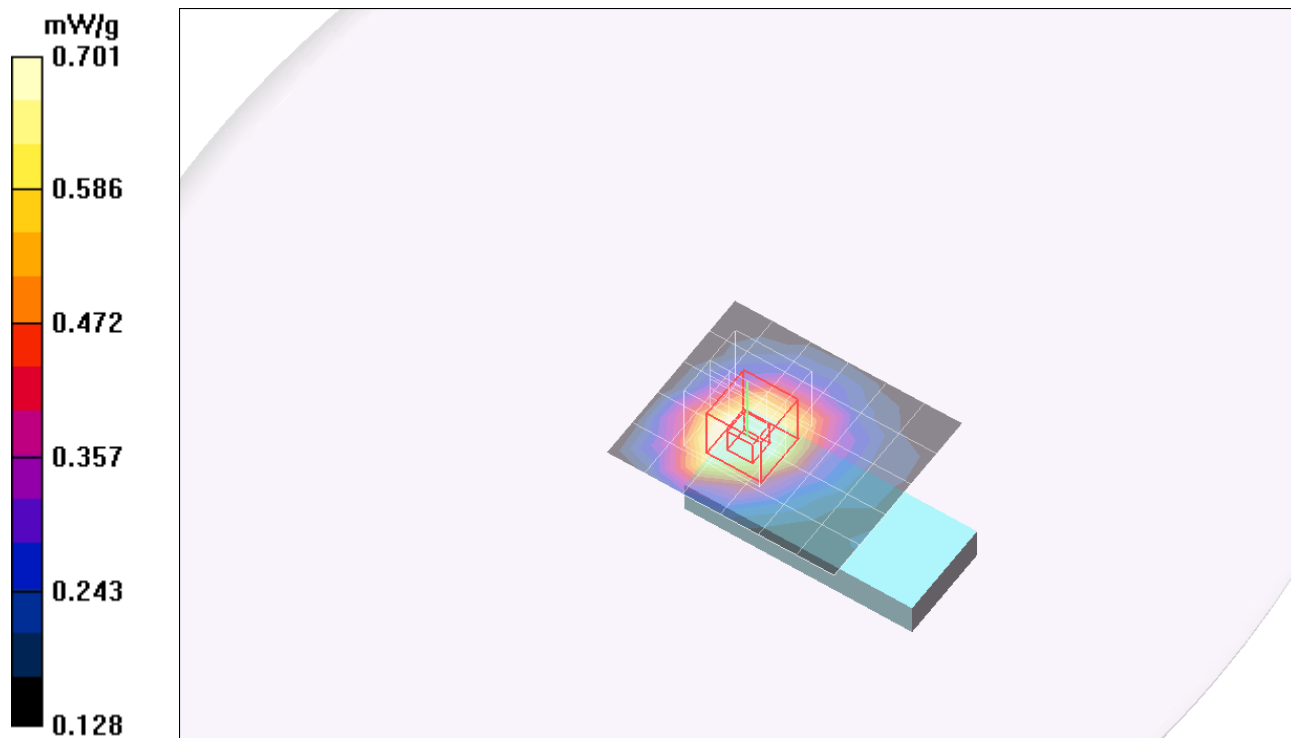
WCDMA - ch 9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.2 V/m; Power Drift = -0.162 dB

Peak SAR (extrapolated) = 0.892 W/kg

SAR(1 g) = 0.655 mW/g; SAR(10 g) = 0.449 mW/g

Maximum value of SAR (measured) = 0.701 mW/g



Test Laboratory: Compliance Certification Services

Compaq Laptop - Horizontal Position

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

GPRS - ch 661 - 4 Slots/Area Scan (11x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.518 mW/g

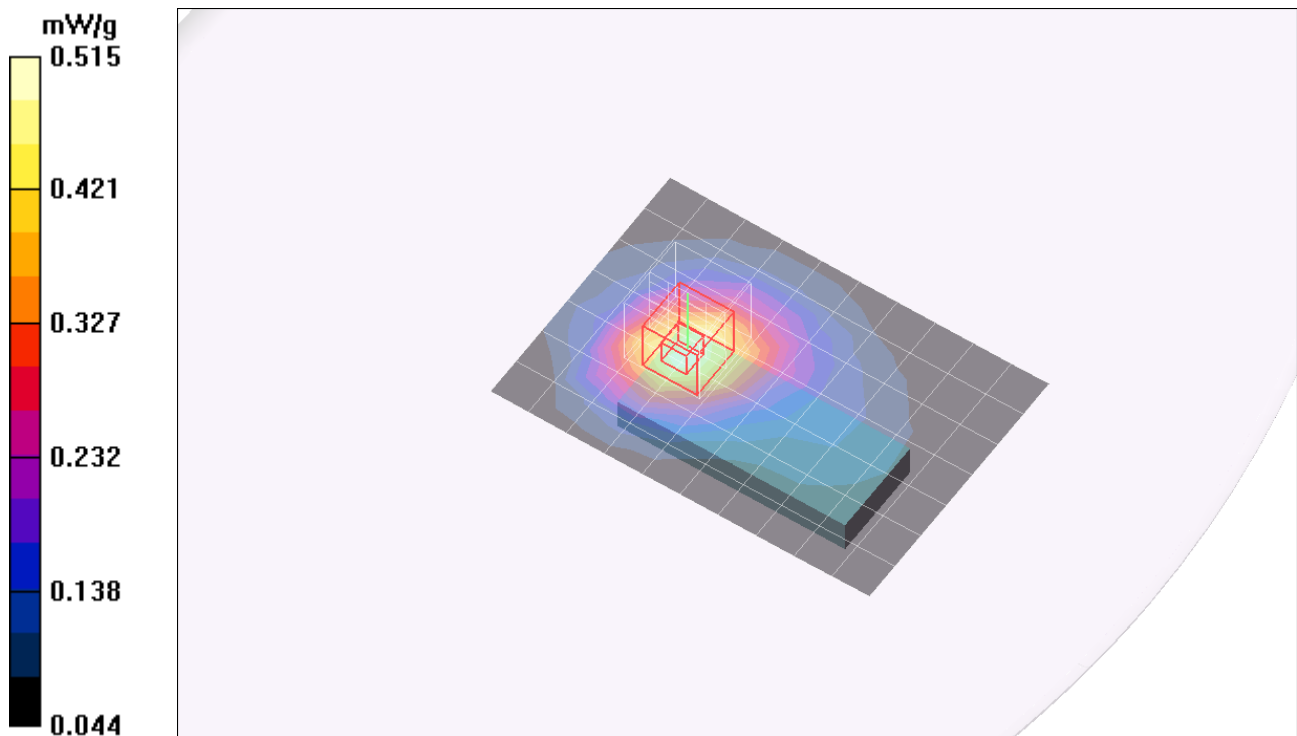
GPRS - ch 661 - 4 Slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.7 V/m; Power Drift = -0.163 dB

Peak SAR (extrapolated) = 0.678 W/kg

SAR(1 g) = 0.480 mW/g; SAR(10 g) = 0.314 mW/g

Maximum value of SAR (measured) = 0.515 mW/g



Test Laboratory: Compliance Certification Services

Compaq Laptop - Horizontal Position

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

EGPRS - ch 661 - 4 Slots/Area Scan (11x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.244 mW/g

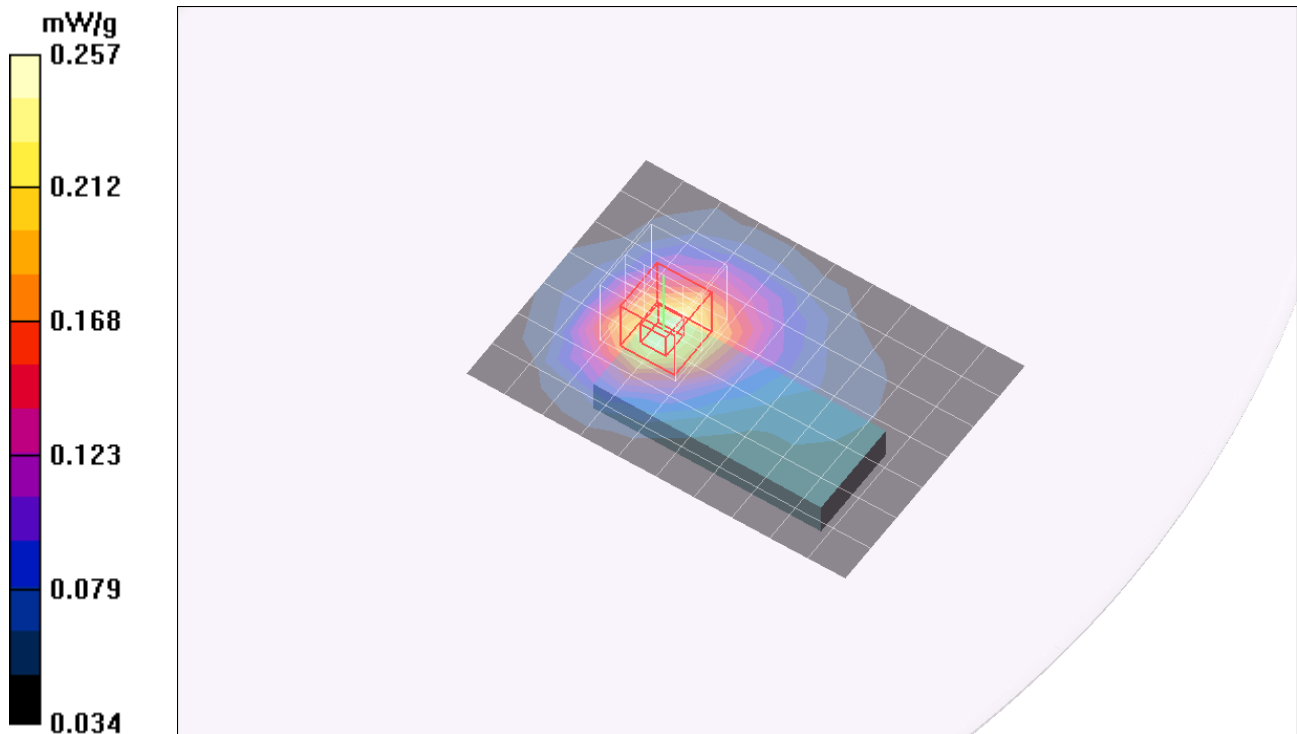
EGPRS - ch 661 - 4 Slots/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.6 V/m; Power Drift = -0.130 dB

Peak SAR (extrapolated) = 0.337 W/kg

SAR(1 g) = 0.238 mW/g; SAR(10 g) = 0.159 mW/g

Maximum value of SAR (measured) = 0.257 mW/g



Test Laboratory: Compliance Certification Services

Compaq Laptop - Horizontal Position

DUT: USB Modem; Type: N/A; Serial: N/A

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 54.8$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

Room Ambient Temperature: 22.0 deg. C; Liquid Temperature: 21.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3552; ConvF(7.6, 7.6, 7.6); Calibrated: 5/30/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 11/16/2006
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

WCDMA - ch 9400/Area Scan (11x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.334 mW/g

WCDMA - ch 9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 13.6 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.242 W/kg

SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.026 mW/g

Maximum value of SAR (measured) = 0.237 mW/g

