

Test Laboratory: Compliance Certification Services

ThinkPad X200

DUT: F3507g - Host ThinkPad X200; Type: WWAN module; Serial: na

Communication System: GSM850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.978$ mho/m; $\epsilon_r = 55.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 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: EX3DV3 - SN3531; ConvF(10.22, 10.22, 10.22); Calibrated: 4/23/2008
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

GPRS - 2 slots - M ch/Area Scan (9x9x1): Measurement grid: dx=15mm, dy=15mm

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

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

GPRS - 2 slots - M ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

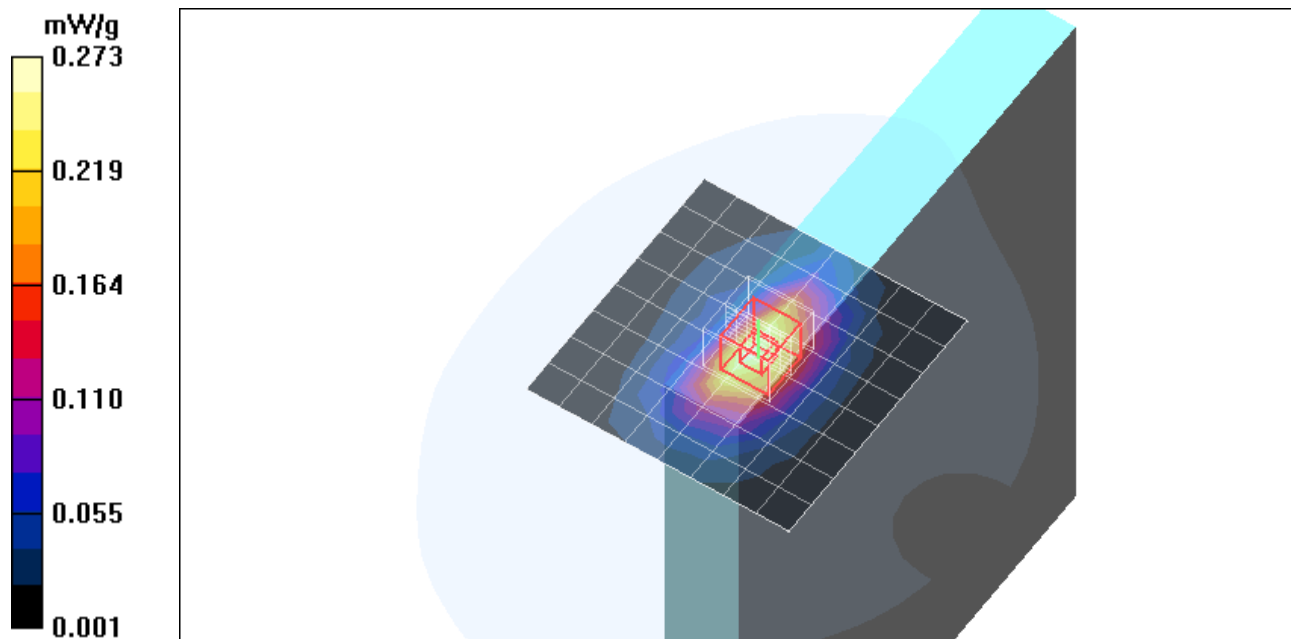
Reference Value = 17.3 V/m; Power Drift = 0.118 dB

Peak SAR (extrapolated) = 0.394 W/kg

SAR(1 g) = 0.243 mW/g; SAR(10 g) = 0.150 mW/g

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

Maximum value of SAR (measured) = 0.292 mW/g



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Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.977$ mho/m; $\epsilon_r = 55.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 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: EX3DV3 - SN3531; ConvF(10.22, 10.22, 10.22); Calibrated: 4/23/2008
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

WCDMA 12.2k RMC - M ch/Area Scan (9x9x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.164 mW/g

WCDMA 12.2k RMC - M ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

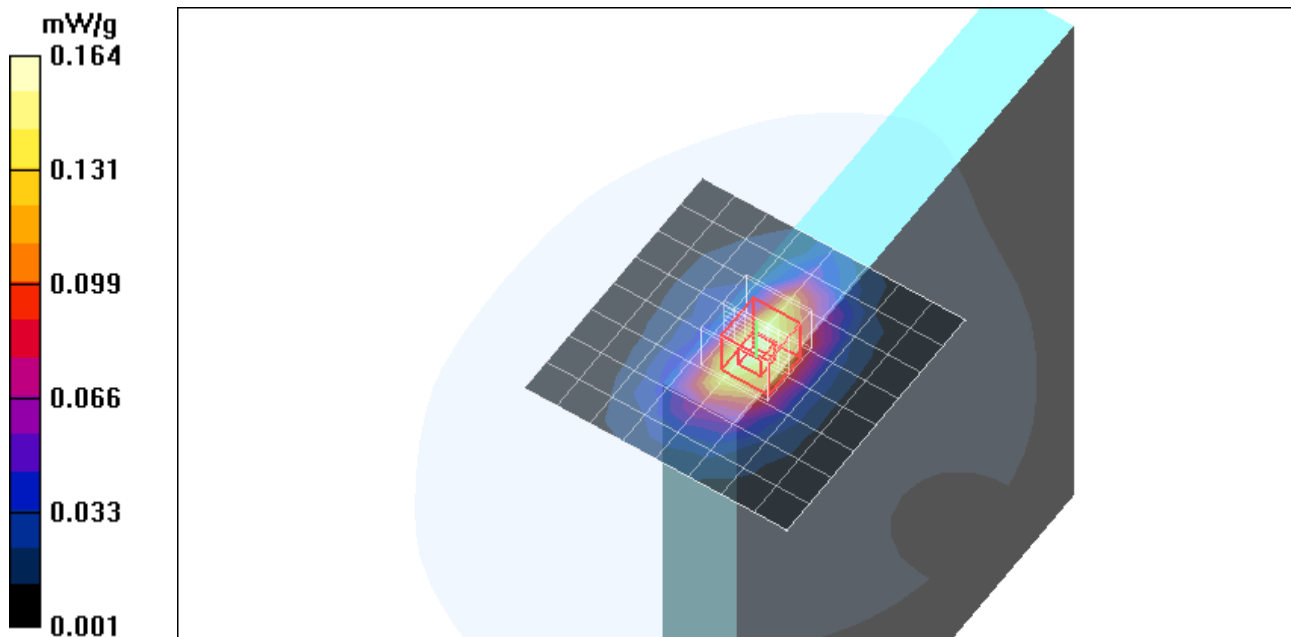
Reference Value = 13.5 V/m; Power Drift = -0.409 dB

Peak SAR (extrapolated) = 0.229 W/kg

SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.089 mW/g

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

Maximum value of SAR (measured) = 0.174 mW/g



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Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.978$ mho/m; $\epsilon_r = 55.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 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: EX3DV3 - SN3531; ConvF(10.22, 10.22, 10.22); Calibrated: 4/23/2008
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

GPRS - 2 slots - Lap Held - M ch/Area Scan (9x9x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.186 mW/g

GPRS - 2 slots - Lap Held - M ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

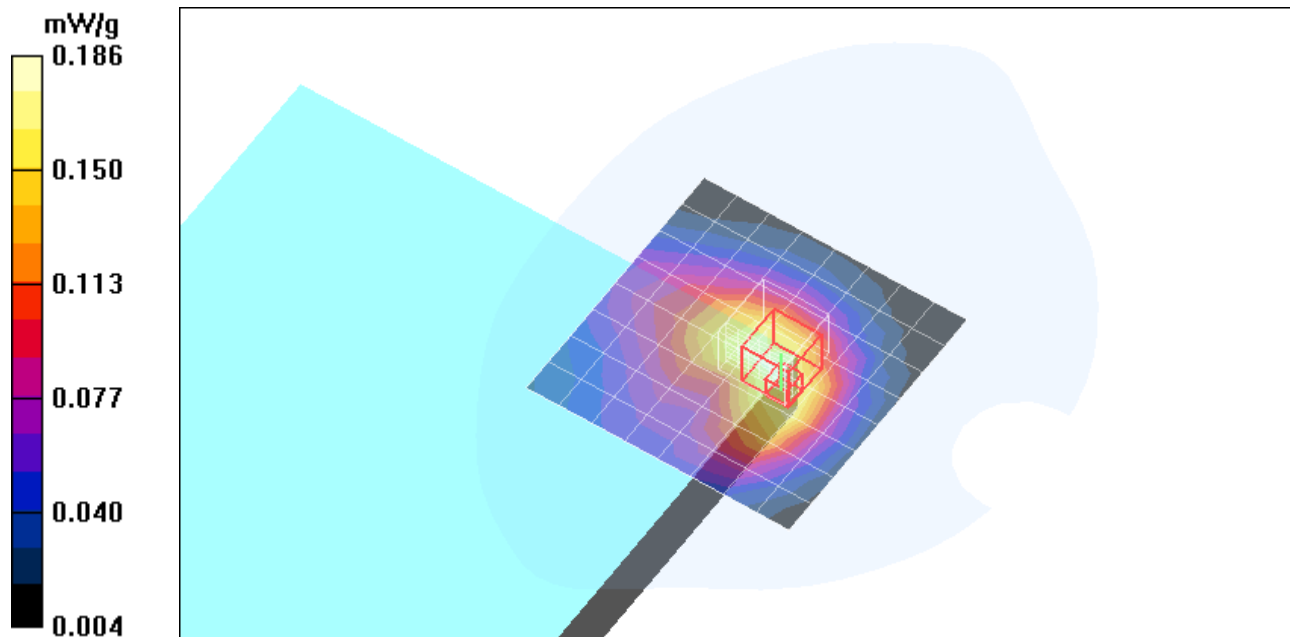
Reference Value = 13.3 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 0.251 W/kg

SAR(1 g) = 0.167 mW/g; SAR(10 g) = 0.111 mW/g

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

Maximum value of SAR (measured) = 0.194 mW/g



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Communication System: GSM850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.978$ mho/m; $\epsilon_r = 55.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 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: EX3DV3 - SN3531; ConvF(10.22, 10.22, 10.22); Calibrated: 4/23/2008
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

WCDMA 12.2k RMC - Lap Held - M ch/Area Scan (9x9x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.122 mW/g

WCDMA 12.2k RMC - Lap Held - M ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

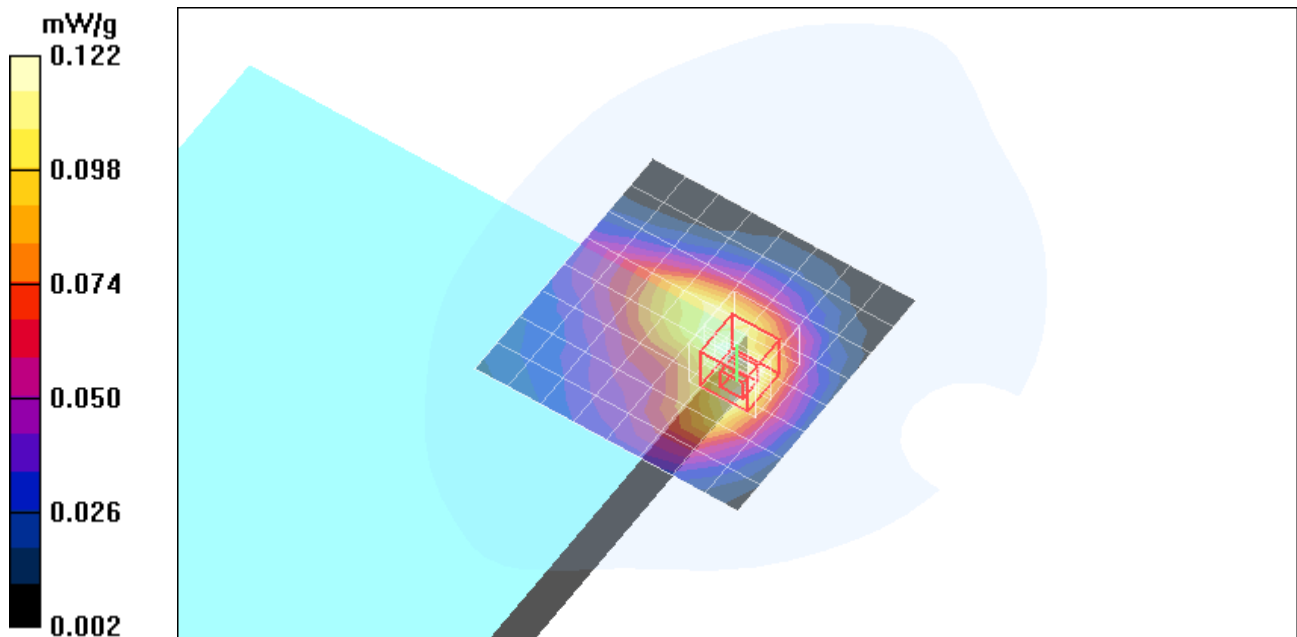
Reference Value = 11.3 V/m; Power Drift = -0.102 dB

Peak SAR (extrapolated) = 0.167 W/kg

SAR(1 g) = 0.113 mW/g; SAR(10 g) = 0.075 mW/g

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

Maximum value of SAR (measured) = 0.132 mW/g



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Thinkpad X200

DUT: F3507g - Host ThinkPad X200; Type: WWAN module; Serial: na

Communication System: PCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 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: EX3DV3 - SN3531; ConvF(8.7, 8.7, 8.7); Calibrated: 4/23/2008
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Wistron - Primary Portrait - GPRS 2 slots - L ch/Area Scan (8x9x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

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

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

Wistron - Primary Portrait - GPRS 2 slots - L ch/Zoom Scan (7x7x9)/Cube 0: Measurement

grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm

Reference Value = 20.3 V/m; Power Drift = -0.542 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.616 mW/g; SAR(10 g) = 0.319 mW/g

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

Maximum value of SAR (measured) = 0.760 mW/g

Wistron - Primary Portrait - GPRS 2 slots - L ch/Zoom Scan (7x7x9)/Cube 1: Measurement

grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm

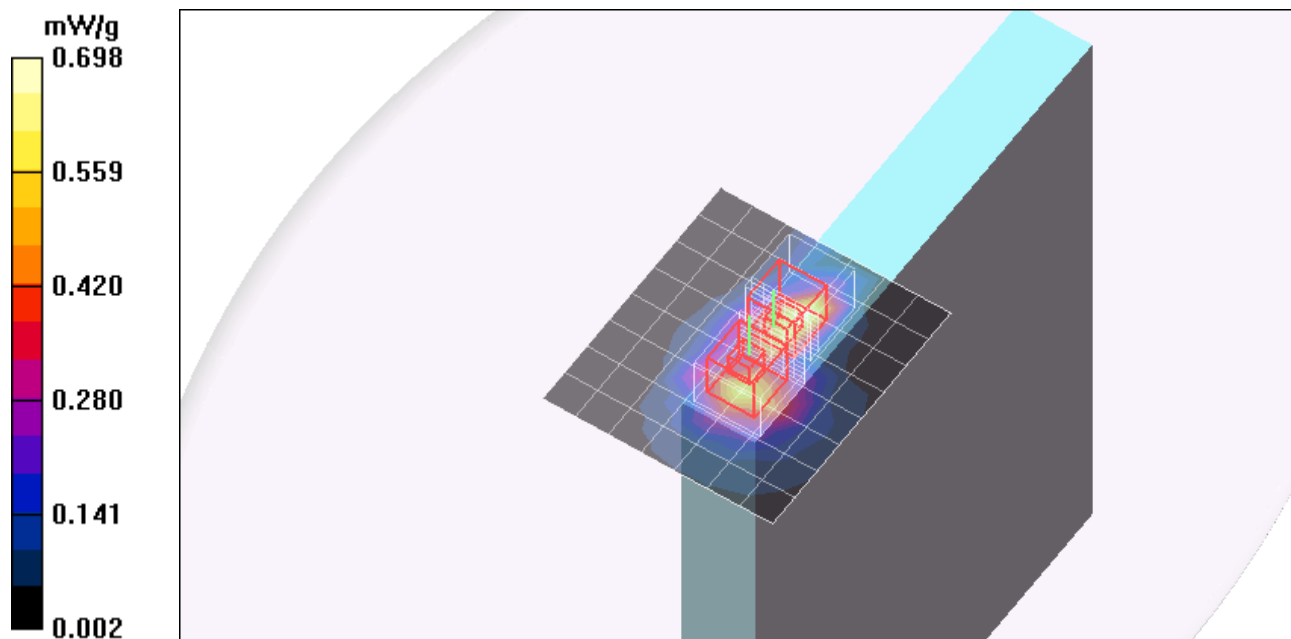
Reference Value = 20.3 V/m; Power Drift = -0.542 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.513 mW/g; SAR(10 g) = 0.288 mW/g

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

Maximum value of SAR (measured) = 0.735 mW/g



Test Laboratory: Compliance Certification Services

Thinkpad X200

DUT: F3507g - Host ThinkPad X200; Type: WWAN module; Serial: na

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 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: EX3DV3 - SN3531; ConvF(8.7, 8.7, 8.7); Calibrated: 4/23/2008
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Wistron - Primary Protrait - GPRS 2 slots - M ch/Area Scan (8x9x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.674 mW/g

Wistron - Primary Protrait - GPRS 2 slots - M ch/Zoom Scan (7x7x9)/Cube 0: Measurement

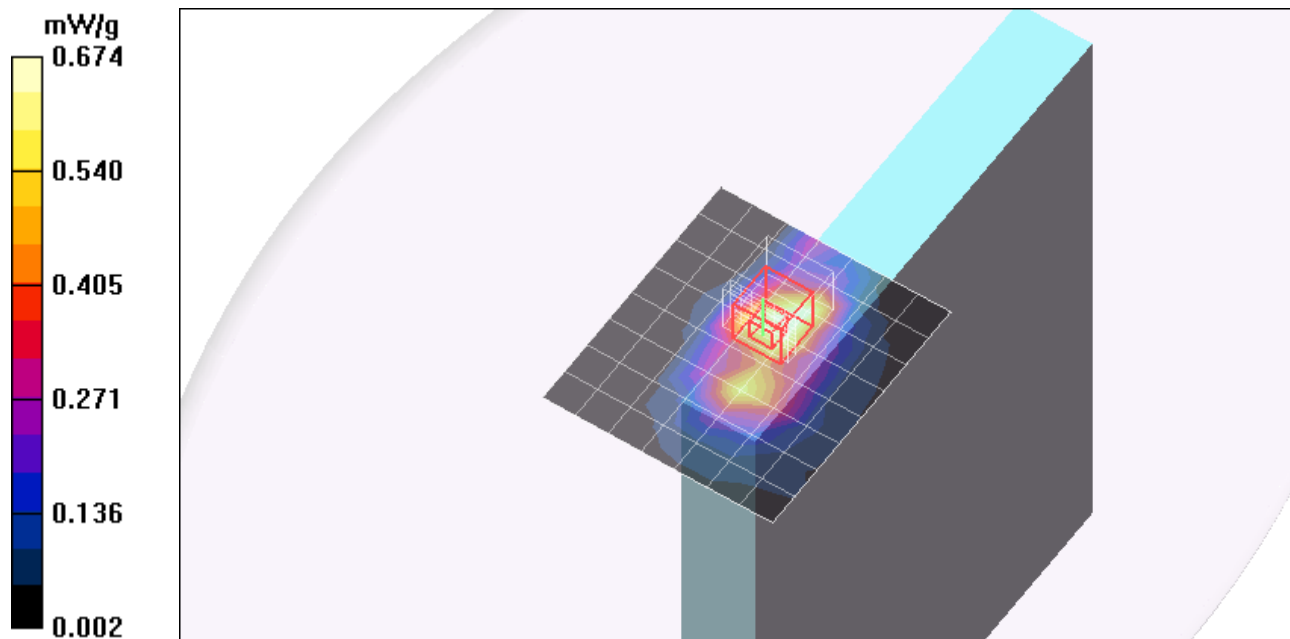
grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm

Reference Value = 25.6 V/m; Power Drift = 0.234 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.826 mW/g; SAR(10 g) = 0.421 mW/g

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



Test Laboratory: Compliance Certification Services

Thinkpad X200

DUT: F3507g - Host ThinkPad X200; Type: WWAN module; Serial: na

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4
Medium parameters used: $f = 1910$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 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: EX3DV3 - SN3531; ConvF(8.7, 8.7, 8.7); Calibrated: 4/23/2008
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Wistron - Primary Portrait - GPRS 2 slots - H ch/Area Scan (8x9x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.900 mW/g

Wistron - Primary Portrait - GPRS 2 slots - H ch/Zoom Scan (7x7x9)/Cube 0: Measurement

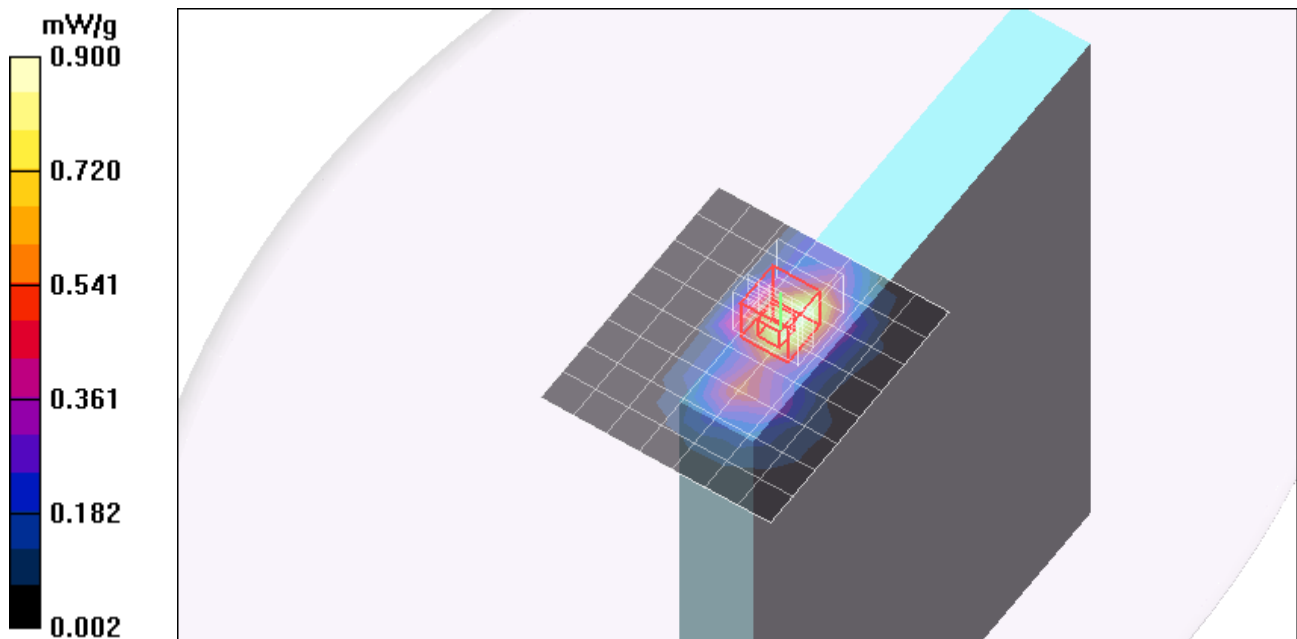
grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 26.2 V/m; Power Drift = 0.558 dB

Peak SAR (extrapolated) = 2.13 W/kg

SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.590 mW/g

Maximum value of SAR (measured) = 1.49 mW/g



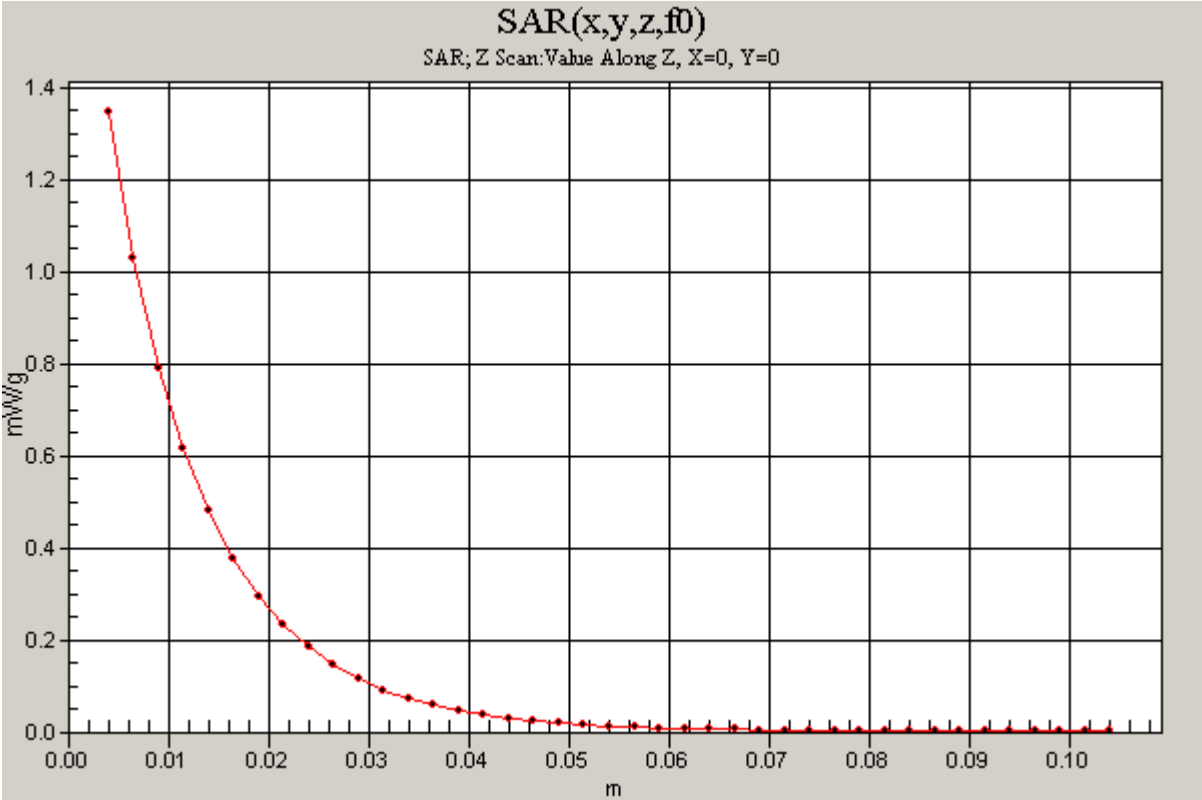
Test Laboratory: Compliance Certification Services

Thinkpad X200

DUT: F3507g - Host ThinkPad X200; Type: WWAN module; Serial: na

Communication System: PCS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:4

Wistron - Primary Portrait - GPRS 2 slots - H ch/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm
Maximum value of SAR (measured) = 1.35 mW/g



Test Laboratory: Compliance Certification Services

Thinkpad X200

DUT: F3507g - Host ThinkPad X200; Type: WWAN module; Serial: na

Communication System: PCS 1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 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: EX3DV3 - SN3531; ConvF(8.7, 8.7, 8.7); Calibrated: 4/23/2008
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Wistron - Primary Portrait - WCDMA - L ch/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 1.15 mW/g

Wistron - Primary Portrait - WCDMA - L ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

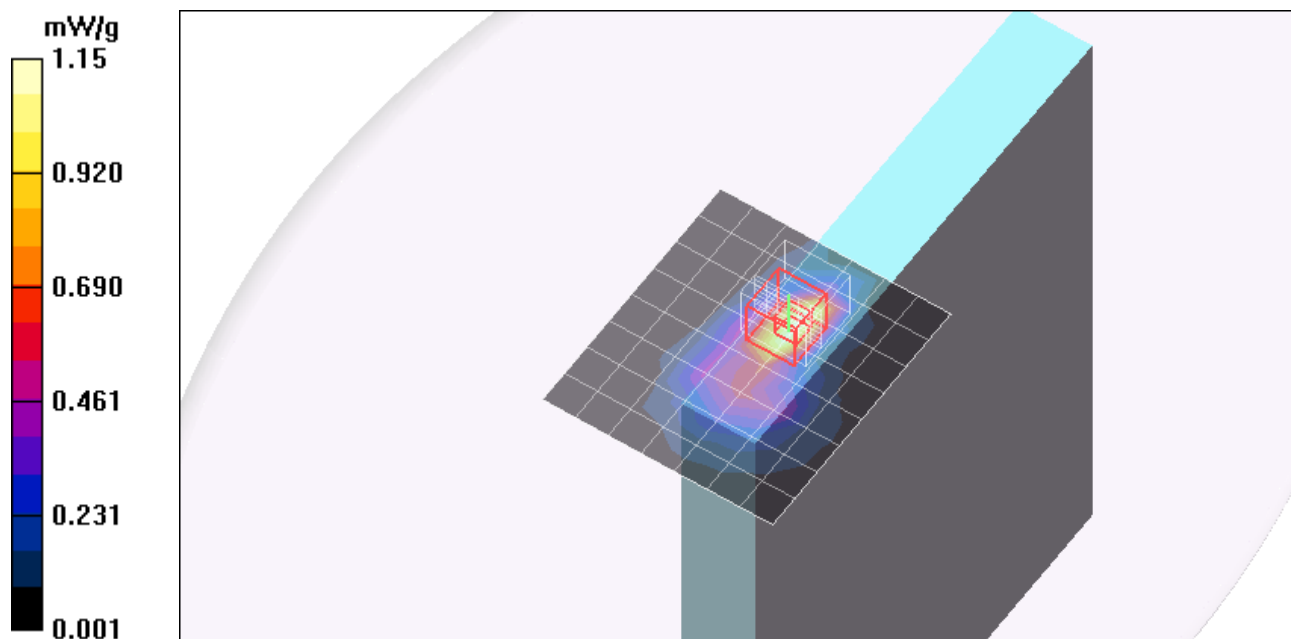
Reference Value = 29.8 V/m; Power Drift = -0.230 dB

Peak SAR (extrapolated) = 2.06 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.529 mW/g

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

Maximum value of SAR (measured) = 1.36 mW/g



Test Laboratory: Compliance Certification Services

Thinkpad X200

DUT: F3507g - Host ThinkPad X200; Type: WWAN module; Serial: na

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 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: EX3DV3 - SN3531; ConvF(8.7, 8.7, 8.7); Calibrated: 4/23/2008
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Wistron - Primary Portrait - WCDMA - M ch/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.976 mW/g

Wistron - Primary Portrait - WCDMA - M ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid:

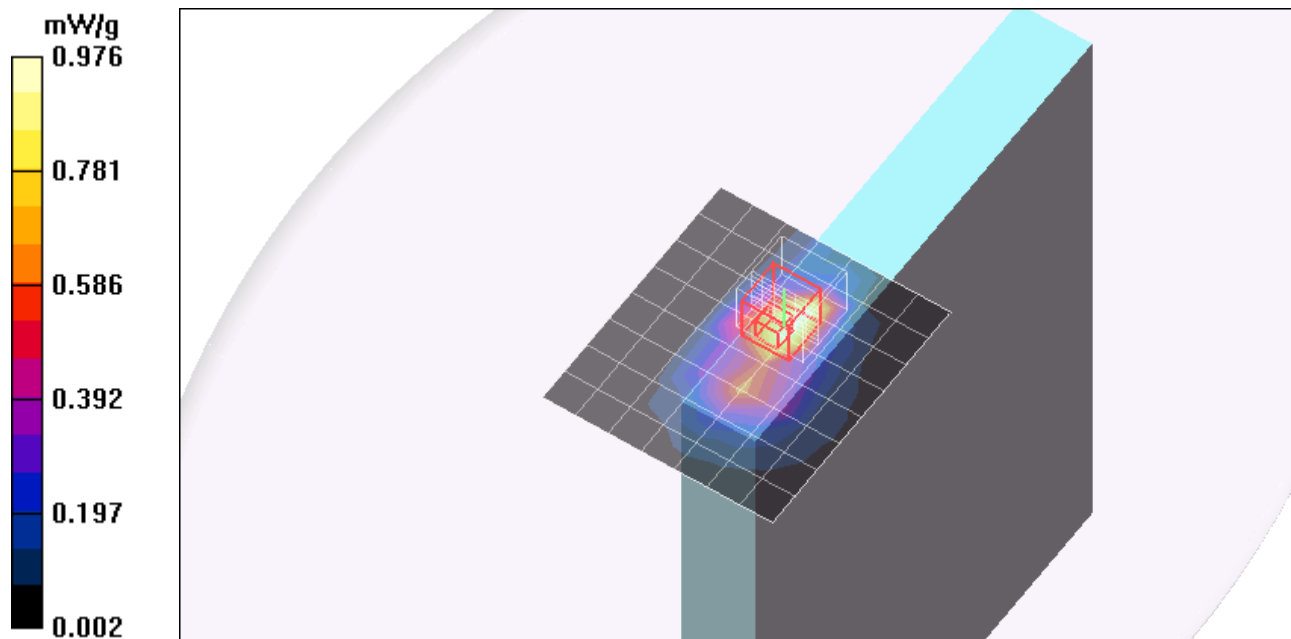
dx=5mm, dy=5mm, dz=3mm

Reference Value = 31.0 V/m; Power Drift = 0.512 dB

Peak SAR (extrapolated) = 2.18 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.586 mW/g

Maximum value of SAR (measured) = 1.49 mW/g



Test Laboratory: Compliance Certification Services

Thinkpad X200

DUT: F3507g - Host ThinkPad X200; Type: WWAN module; Serial: na

Communication System: PCS 1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 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: EX3DV3 - SN3531; ConvF(8.7, 8.7, 8.7); Calibrated: 4/23/2008
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Wistron - Primary Portrait - WCDMA - H ch/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 1.28 mW/g

Wistron - Primary Portrait - WCDMA - H ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

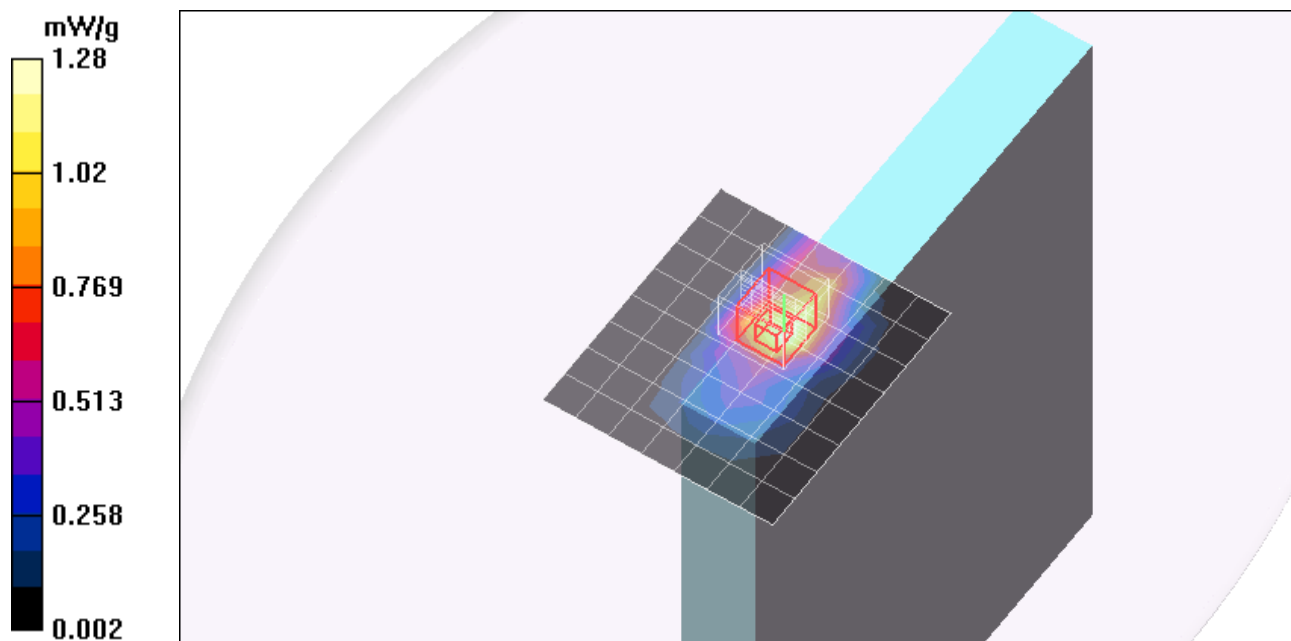
Reference Value = 29.8 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.639 mW/g

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

Maximum value of SAR (measured) = 1.39 mW/g



Test Laboratory: Compliance Certification Services

Thinkpad X200

DUT: F3507g - Host ThinkPad X200; Type: WWAN module; Serial: na

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 51.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

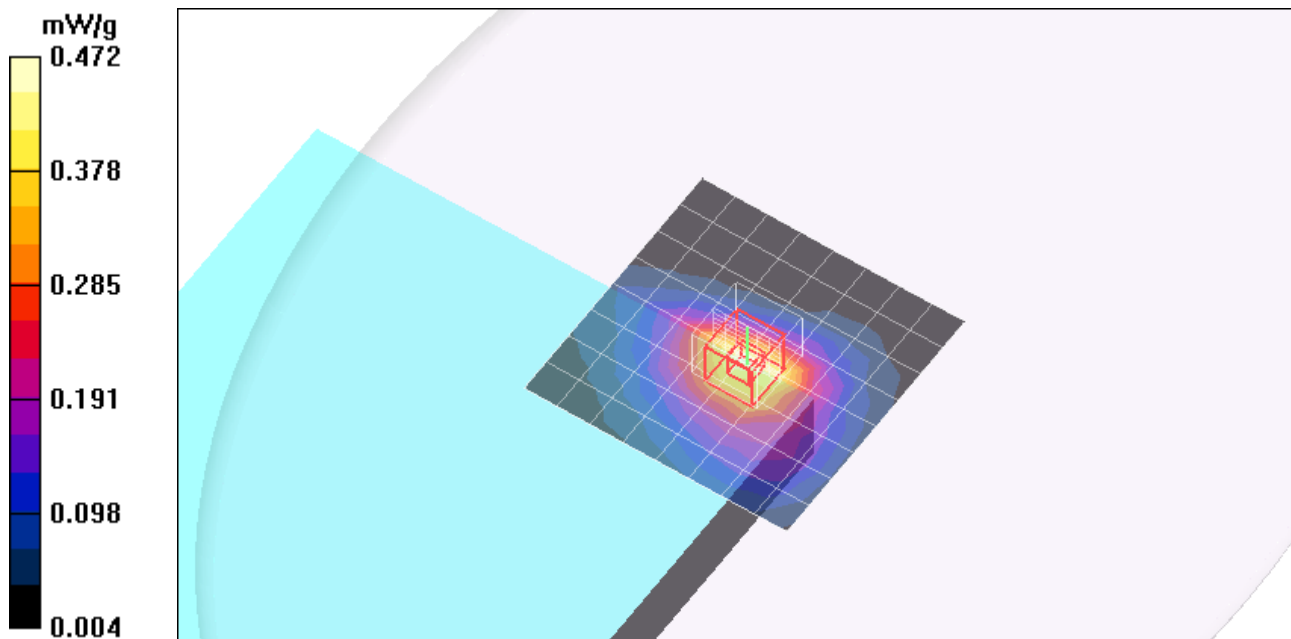
Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(8.7, 8.7, 8.7); Calibrated: 4/23/2008
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Wistron - Lap held - GPRS 2 slots - M ch/Area Scan (9x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.472 mW/g

Wistron - Lap held - GPRS 2 slots - M ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 11.8 V/m; Power Drift = 0.167 dB
Peak SAR (extrapolated) = 0.663 W/kg
SAR(1 g) = 0.408 mW/g; SAR(10 g) = 0.249 mW/g
Maximum value of SAR (measured) = 0.492 mW/g



Test Laboratory: Compliance Certification Services

Thinkpad X200

DUT: F3507g - Host ThinkPad X200; Type: WWAN module; Serial: na

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

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 51.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 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: EX3DV3 - SN3531; ConvF(8.7, 8.7, 8.7); Calibrated: 4/23/2008
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Wistron - Lap held - WCDMA - M ch/Area Scan (9x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.411 mW/g

Wistron - Lap held - WCDMA - M ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 11.3 V/m; Power Drift = 0.246 dB

Peak SAR (extrapolated) = 0.552 W/kg

SAR(1 g) = 0.345 mW/g; SAR(10 g) = 0.212 mW/g

Maximum value of SAR (measured) = 0.416 mW/g

