

Test Laboratory: Compliance Certification Services

System Performance Check @ 2450 MHz

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:706

Communication System: CW - 2450 MHz; Frequency: 2450 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2450$ MHz; $\sigma = 2.02$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ 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(7.91, 7.91, 7.91); Calibrated: 4/23/2008
- Sensor-Surface: 4mm (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

d=10mm, Pin=250mW /Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 14.3 mW/g

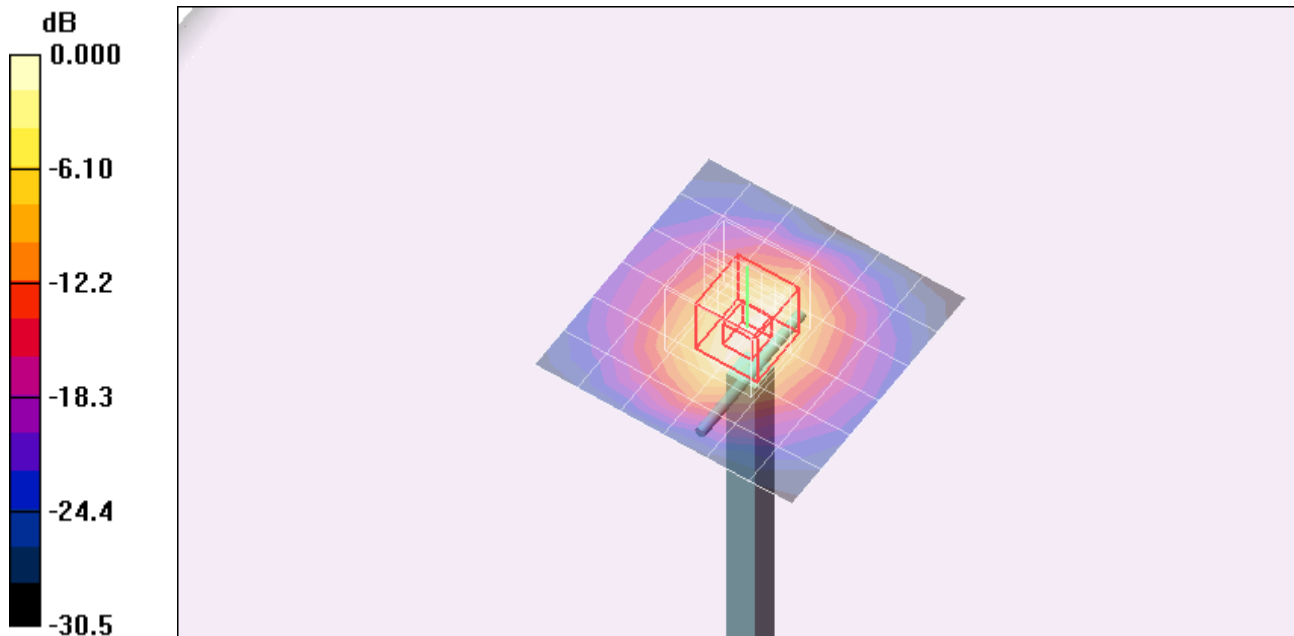
d=10mm, Pin=250mW /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 84.3 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 25.8 W/kg

SAR(1 g) = 12.5 mW/g; SAR(10 g) = 5.8 mW/g

Maximum value of SAR (measured) = 14.2 mW/g



0 dB = 14.2mW/g

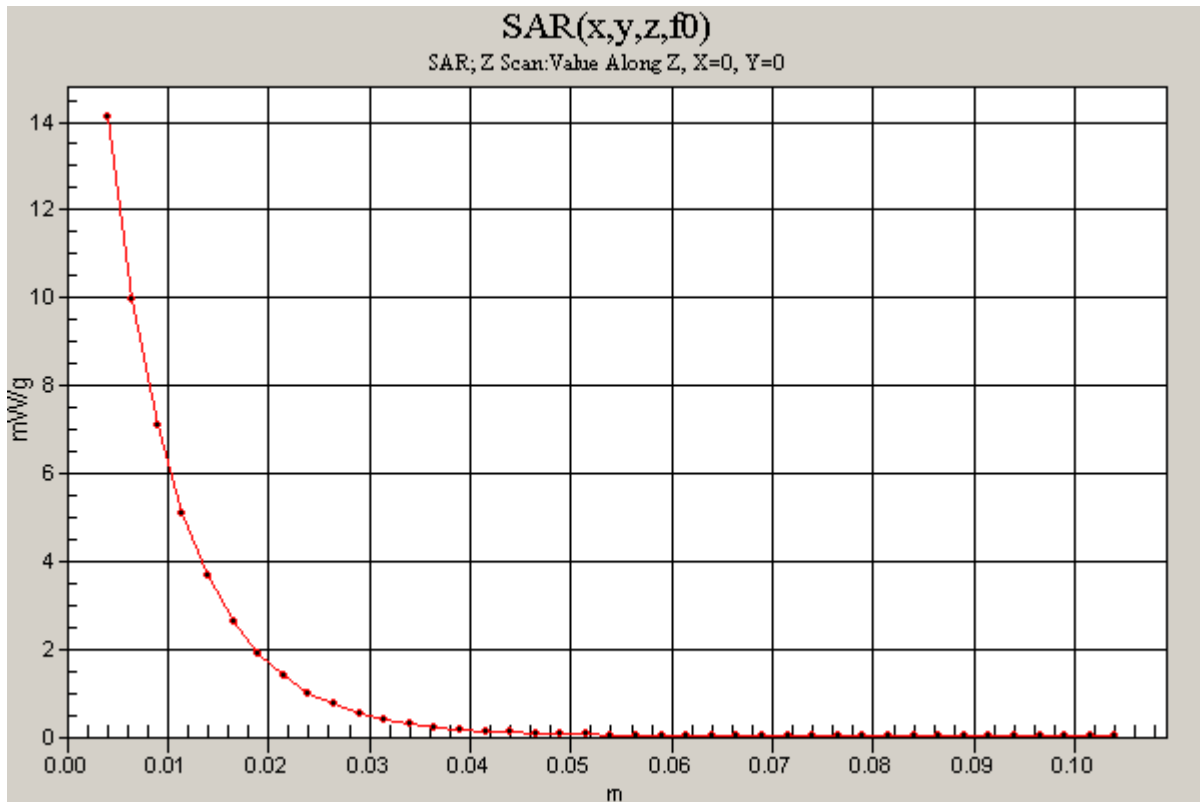
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System Performance Check @ 2450 MHz

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:706

Communication System: CW - 2450 MHz; Frequency: 2450 MHz; Duty Cycle: 1:1

d=10mm, Pin=250mW 2/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm
Maximum value of SAR (measured) = 14.1 mW/g



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System Performance Check @ 5 GHz

DUT: Dipole 5200-5800MHz; Type: D5GHzV2; Serial: 1003

Communication System: CW 5200MHz; Frequency: 5200 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.48$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 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: EX3DV3 - SN3531; ConvF(4.21, 4.21, 4.21); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (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

5.2 GHz d=10mm, Pin=250mW/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 22.0 mW/g

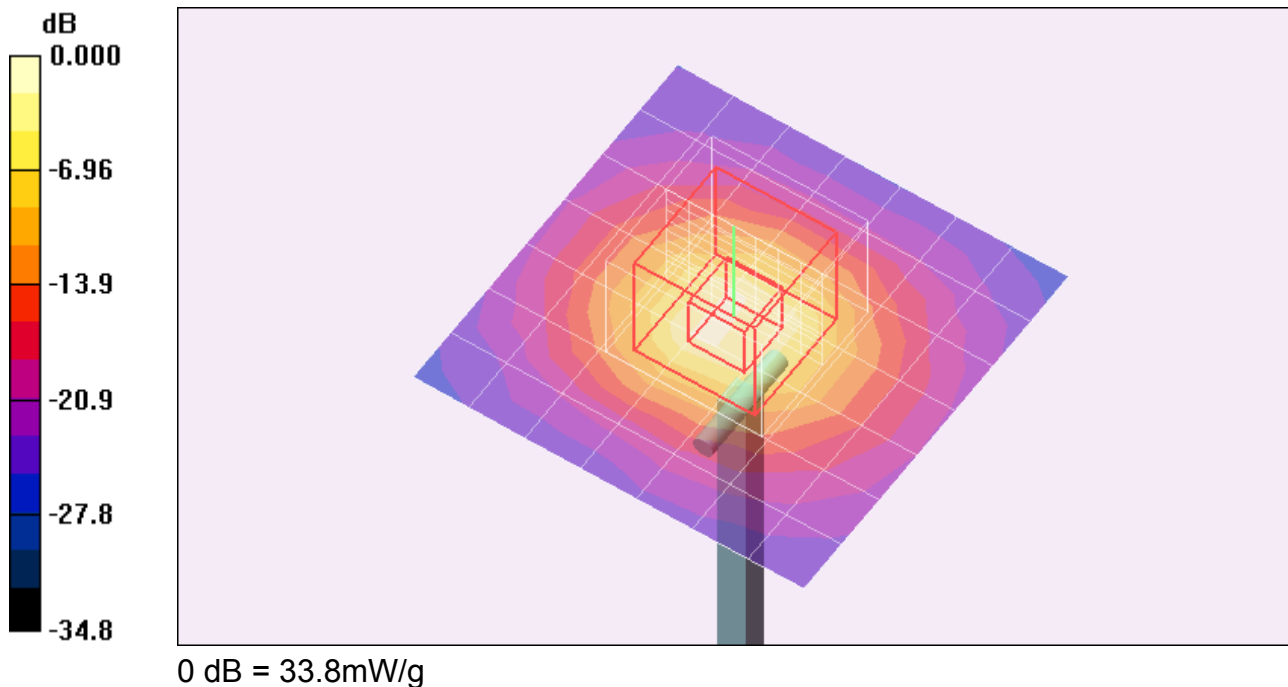
5.2 GHz d=10mm, Pin=250mW/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 82.2 V/m; Power Drift = 0.132 dB

Peak SAR (extrapolated) = 75.9 W/kg

SAR(1 g) = 19.4 mW/g; SAR(10 g) = 5.49 mW/g

Maximum value of SAR (measured) = 33.8 mW/g



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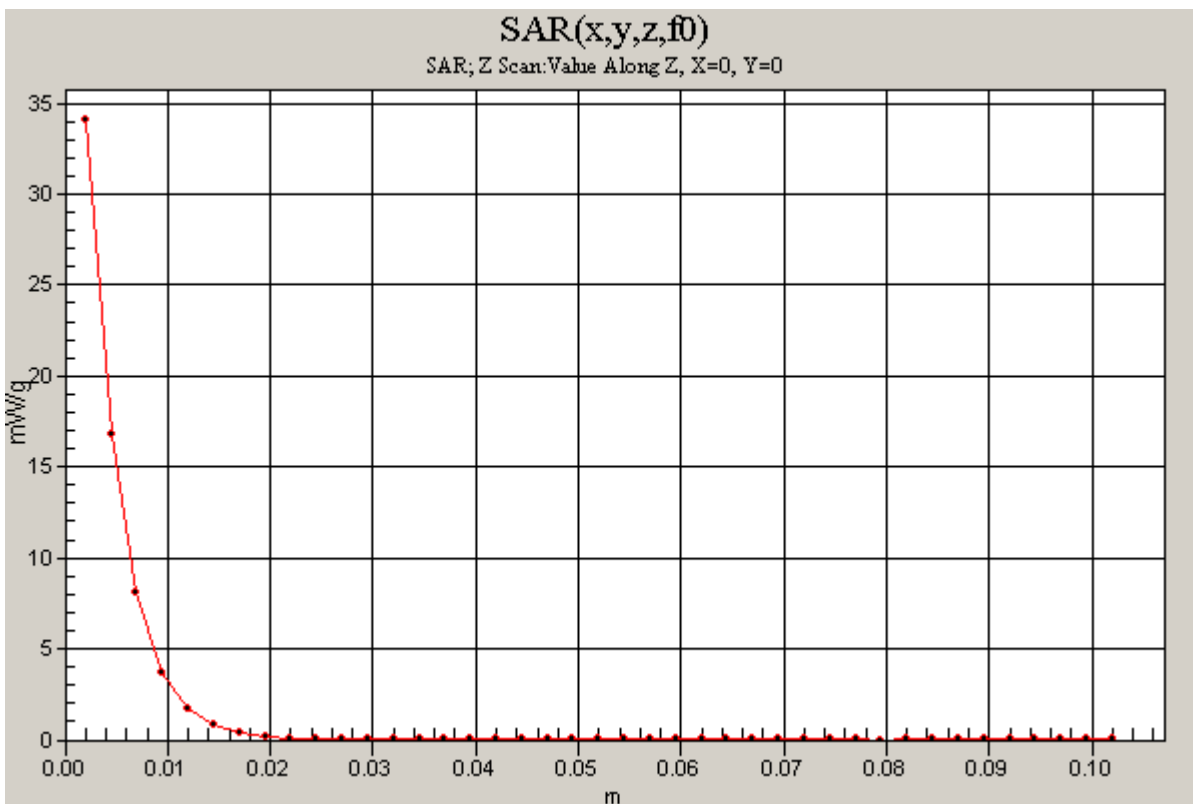
SystemPerformanceCheck-D5GHz-uniform

DUT: Dipole 5200-5800MHz; Type: D5GHzV2; Serial: 1003

Communication System: 5200 - 5800MHz; Frequency: 5200 MHz;Duty Cycle: 1:1

d=10mm, Pin=250mW, f=5200 MHz/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

Maximum value of SAR (measured) = 34.1 mW/g



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SystemPerformanceCheck-D5GHz-uniform

DUT: Dipole 5200-5800MHz; Type: D5GHzV2;Serial: 1003

Communication System: CW;Frequency: 5500 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 5500$ MHz; $\sigma = 5.81$ mho/m; $\epsilon_r = 45.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Room AmbientTemperature: 24.0deg. 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(3.99, 3.99, 3.99); Calibrated: 4/23/2008
- Sensor-Surface: 2.5mm (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

d=10mm, Pin=250mW, f=5500 MHz/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 24.4 mW/g

d=10mm, Pin=250mW, f=5500 MHz/Zoom Scan (4.3x4.3x3mm), dist=2mm (8x8x8)/Cube

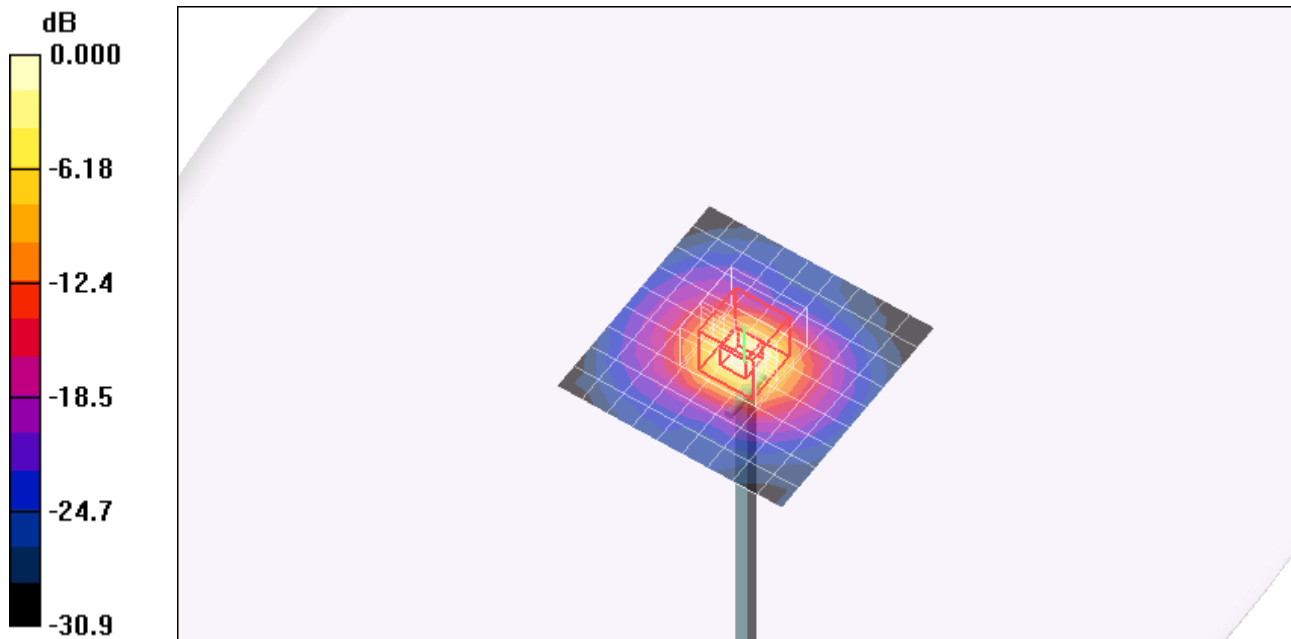
0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 75.2 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 82.9 W/kg

SAR(1 g) = 20.2 mW/g; SAR(10 g) = 5.75 mW/g

Maximum value of SAR (measured) = 34.3 mW/g



0 dB = 34.3mW/g

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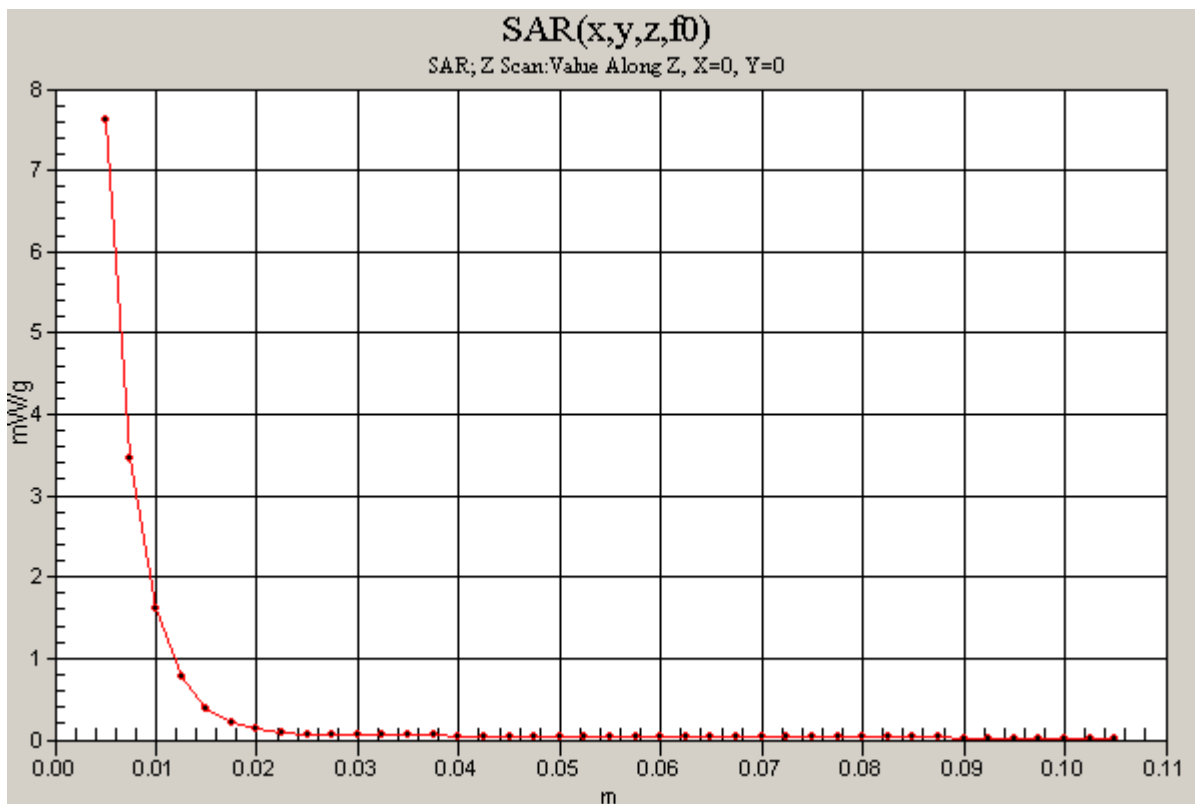
SystemPerformanceCheck-D5GHz-uniform

DUT: Dipole 5200-5800MHz; Type: D5GHzV2; Serial: 1003

Communication System: CW; Frequency: 5500 MHz; Duty Cycle: 1:1

d=10mm, Pin=250mW, f=5500 MHz/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

Maximum value of SAR (measured) = 7.62 mW/g



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SystemPerformanceCheck-D5GHz-uniform

DUT: Dipole 5200-5800MHz; Type: D5GHzV2;Serial: 1003

Communication System: CW;Frequency: 5800 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 5800$ MHz; $\sigma = 6.23$ mho/m; $\epsilon_r = 44.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room AmbientTemperature: 24.0deg. 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(3.7, 3.7, 3.7); Calibrated: 4/23/2008
- Sensor-Surface: 3mm (Mechanical Surface Detection)Sensor-Surface: 2.5mm (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

d=10mm, Pin=250mW, f=5800 MHz/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 19.6 mW/g

d=10mm, Pin=250mW, f=5800 MHz/Zoom Scan (4.3x4.3x3mm), dist=2mm (8x8x8)/Cube

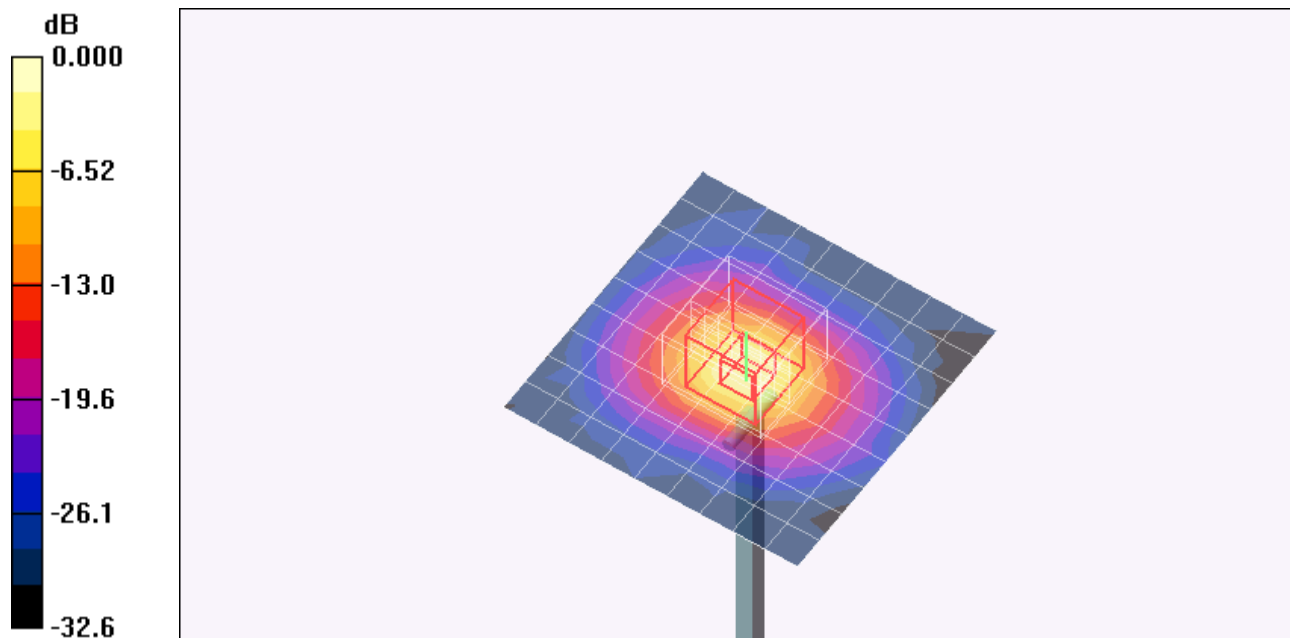
0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 70.5 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 84.2 W/kg

SAR(1 g) = 19.6 mW/g; SAR(10 g) = 5.62 mW/g

Maximum value of SAR (measured) = 32.5 mW/g



0 dB = 32.5mW/g

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SystemPerformanceCheck-D5GHz-uniform

DUT: Dipole 5200-5800MHz; Type: D5GHzV2; Serial: 1003

Communication System: CW; Frequency: 5800 MHz;Duty Cycle: 1:1

d=10mm, Pin=250mW, f=5800 MHz/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

Maximum value of SAR (measured) = 6.29 mW/g

