

Test Laboratory: UL CCS

System Check D835V2 SN 4d002

DUT: Dipole D835V2; Type: D835V2; Serial: 4d002

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.898 \text{ mho/m}$; $\epsilon_r = 43.159$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(8.65, 8.65, 8.65); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: SAM with CRP; Type: SAM; Serial: 1602
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

D835V2/Pin=100 mW/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.082 mW/g

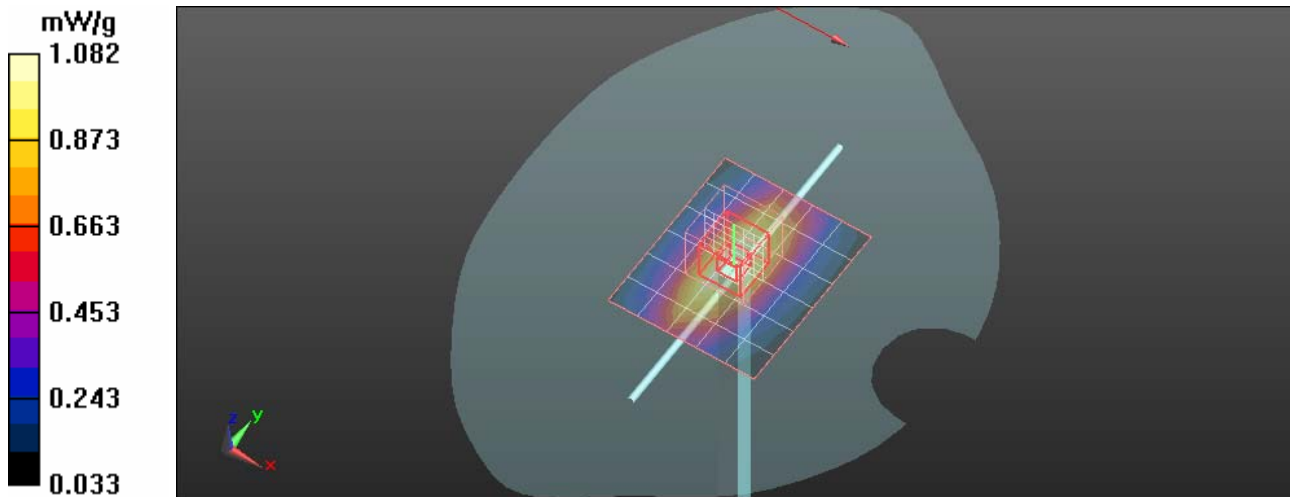
D835V2/Pin=100 mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 36.264 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.428 W/kg

SAR(1 g) = 0.945 mW/g; SAR(10 g) = 0.618 mW/g

Maximum value of SAR (measured) = 1.152 mW/g



Test Laboratory: UL CCS

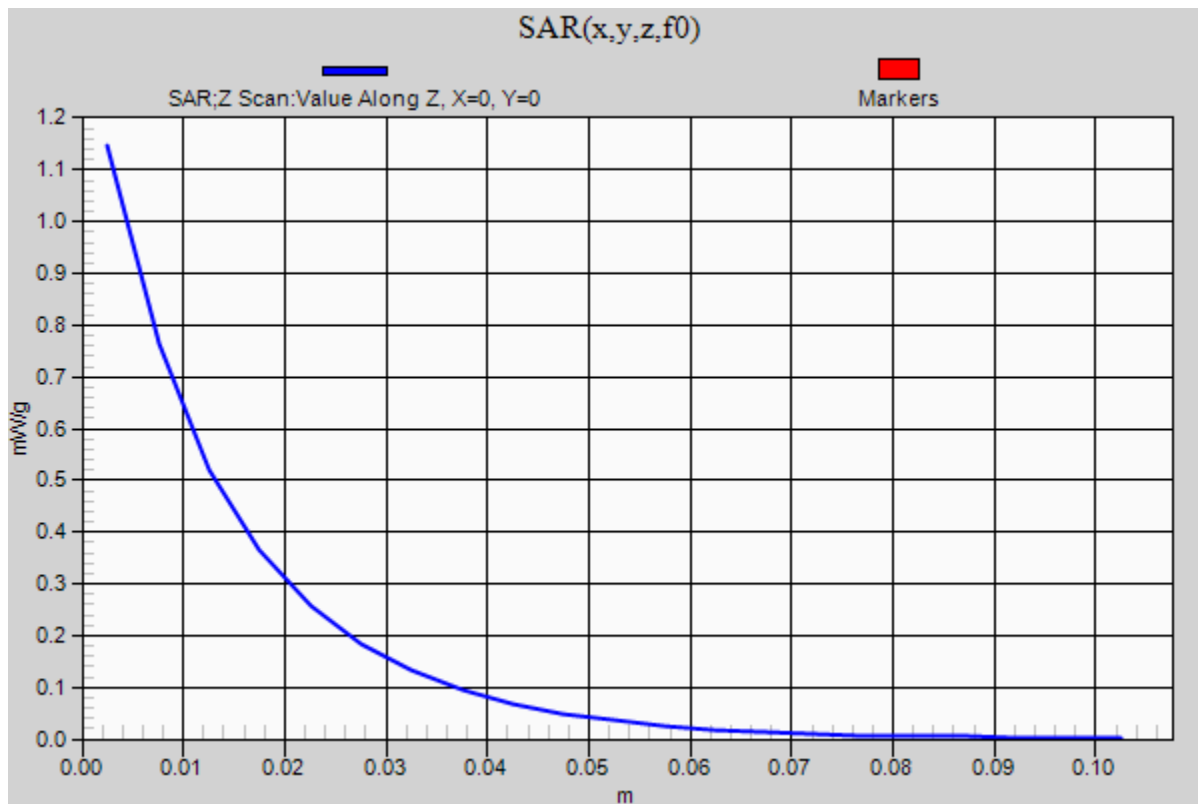
System Check D835V2 SN 4d002

DUT: Dipole D835V2; Type: D835V2; Serial: 4d002

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

D835V2/Pin=100 mW/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 1.147 mW/g



Test Laboratory: UL CCS

System Performance Check - D835V2

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d002

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.873$ mho/m; $\epsilon_r = 40.58$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(8.65, 8.65, 8.65); Calibrated: 1/24/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: ELI 4.0; Type: QDOVA001BB; Serial: 1099
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

Configuration/d=15mm, Pin=100 mW/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.116 mW/g

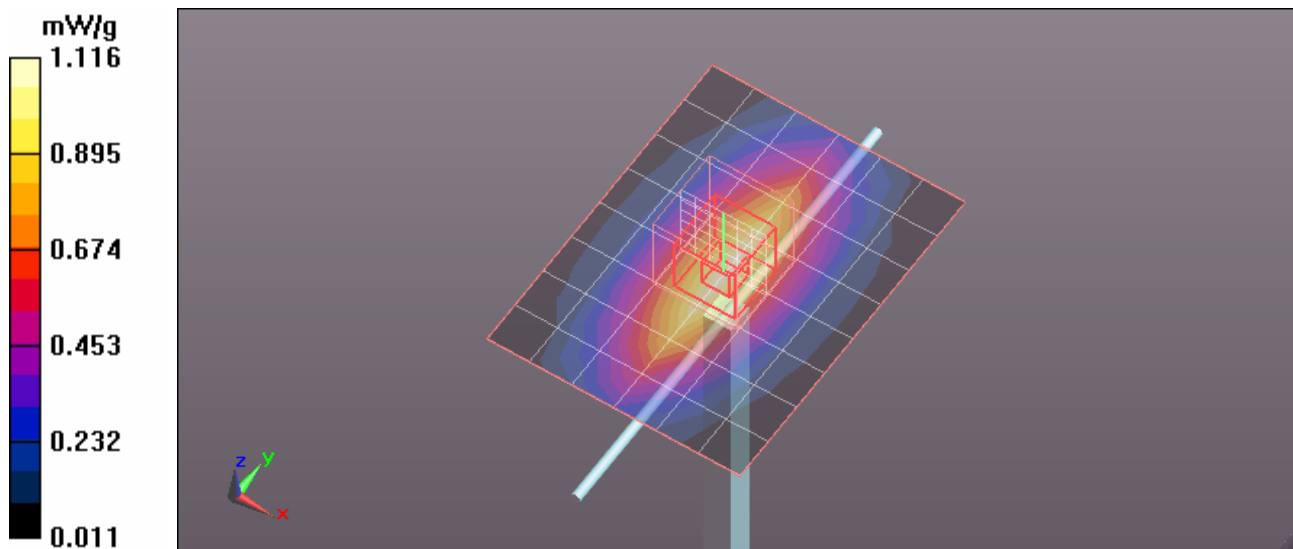
Configuration/d=15mm, Pin=100 mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.955 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.422 W/kg

SAR(1 g) = 0.953 mW/g; SAR(10 g) = 0.626 mW/g

Maximum value of SAR (measured) = 1.028 mW/g



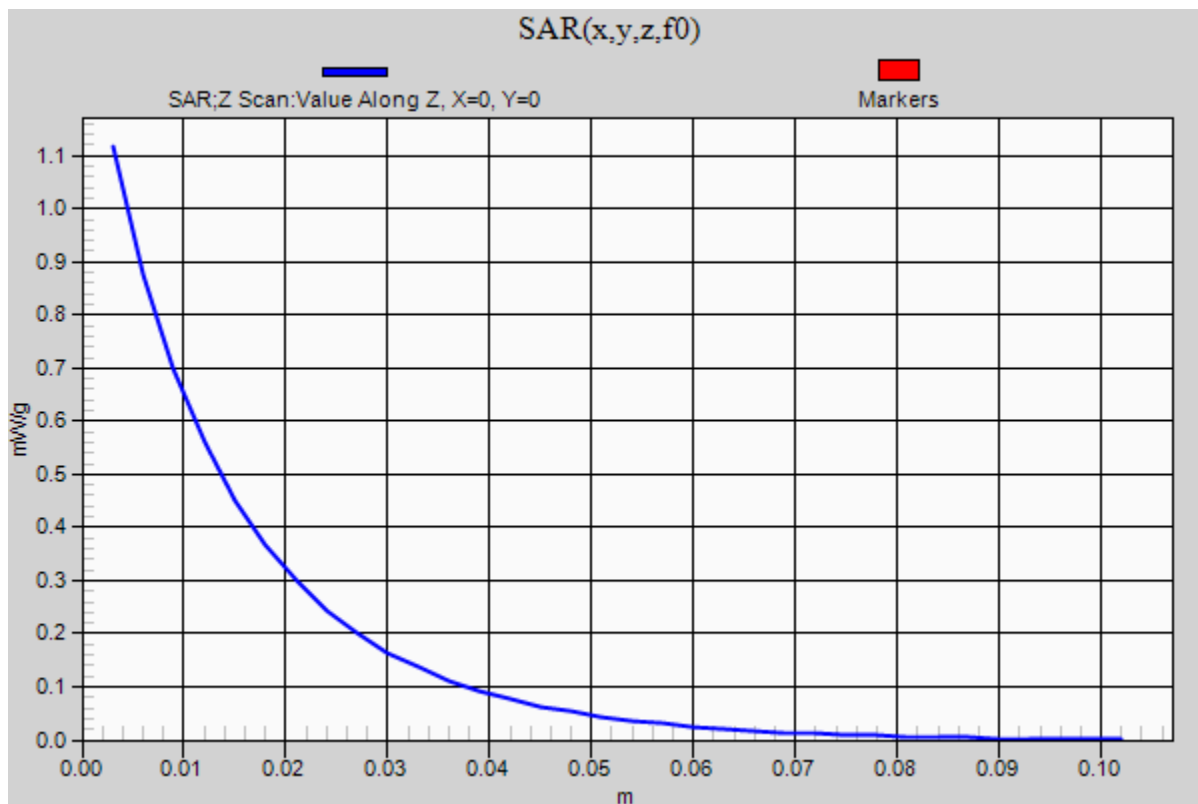
Test Laboratory: UL CCS

System Performance Check - D835V2

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d002

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Configuration/d=15mm, Pin=100 mW/Z Scan (1x1x34): Measurement grid: dx=20mm, dy=20mm, dz=3mm
Maximum value of SAR (measured) = 1.117 mW/g



Test Laboratory: UL CCS

System Check_D1900V2_SN 5d043

DUT: Dipole D1900V2; Type: D1900V2; Serial: 5d043

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.499$ mho/m; $\epsilon_r = 52.035$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

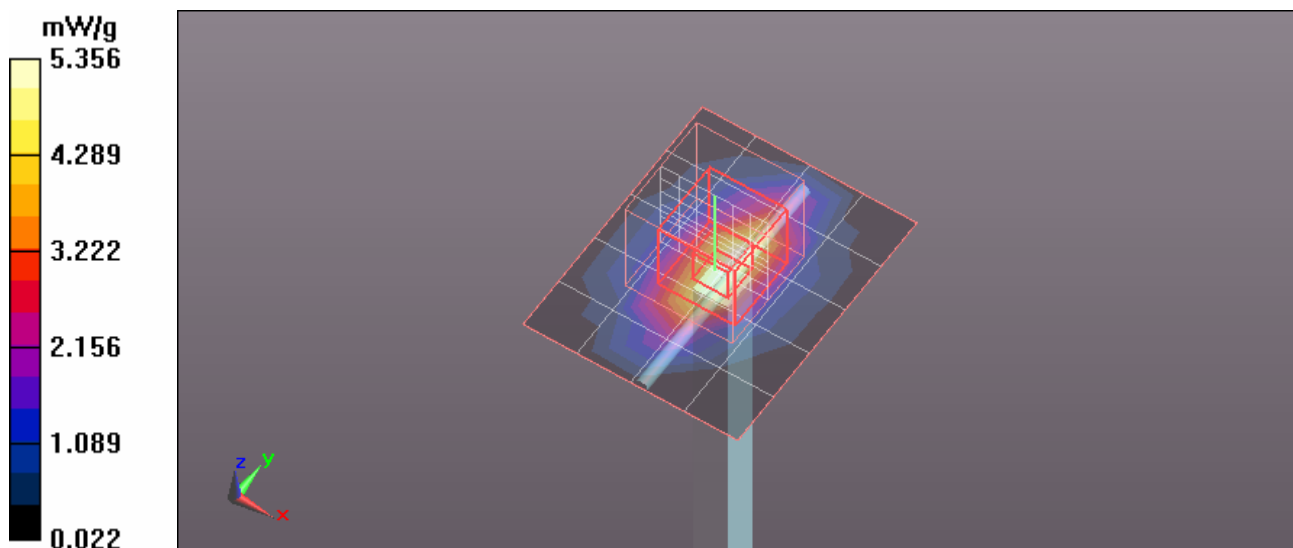
Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(6.99, 6.99, 6.99); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: ELI 4.0; Type: QDOVA001BB; Serial: 1099
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

D1900V2/Pin=100 mW/Area Scan (5x6x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 5.356 mW/g

D1900V2/Pin=100 mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 61.788 V/m; Power Drift = -0.00093 dB
Peak SAR (extrapolated) = 7.596 W/kg
SAR(1 g) = 4.2 mW/g; SAR(10 g) = 2.2 mW/g
Maximum value of SAR (measured) = 5.641 mW/g



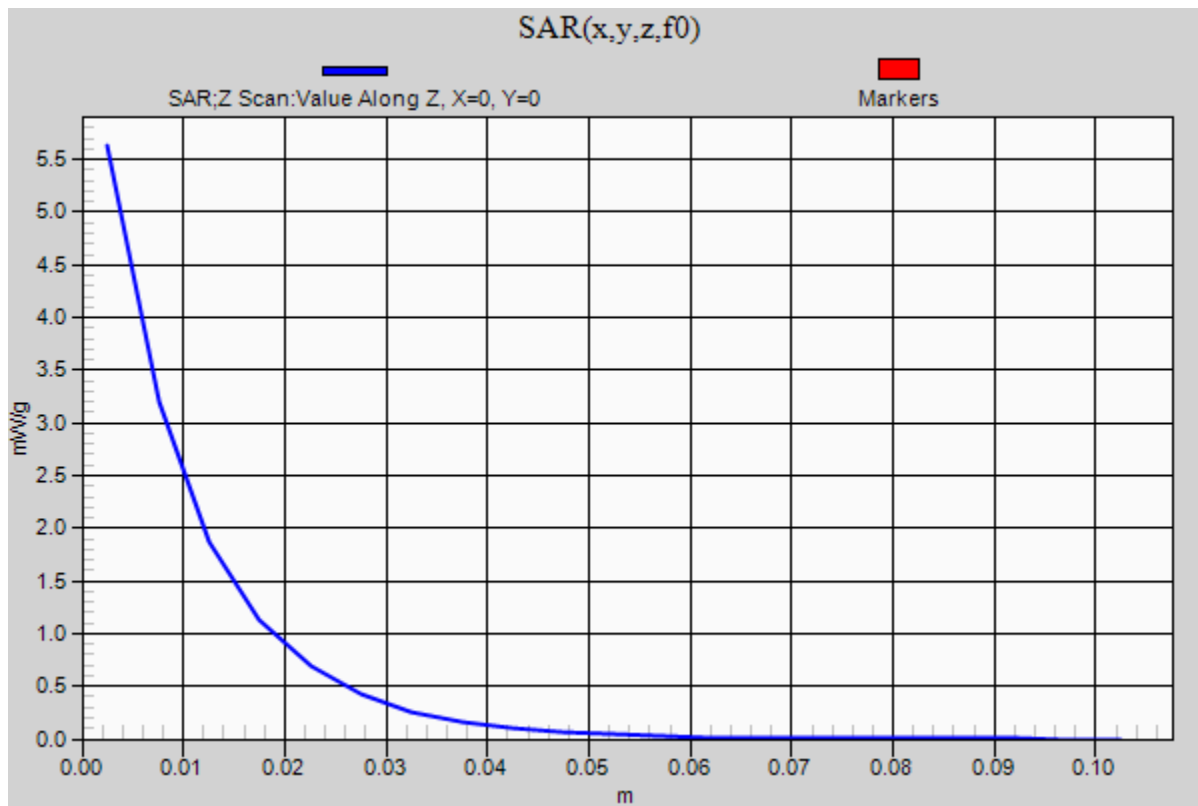
Test Laboratory: UL CCS

System Check_D1900V2_SN 5d043

DUT: Dipole D1900V2; Type: D1900V2; Serial: 5d043

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1

D1900V2/Pin=100 mW/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 5.630 mW/g



Test Laboratory: UL CCS

System Check_D1900V2_SN 5d043

DUT: Dipole D1900V2; Type: D1900V2; Serial: 5d043

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.344$ mho/m; $\epsilon_r = 40.918$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

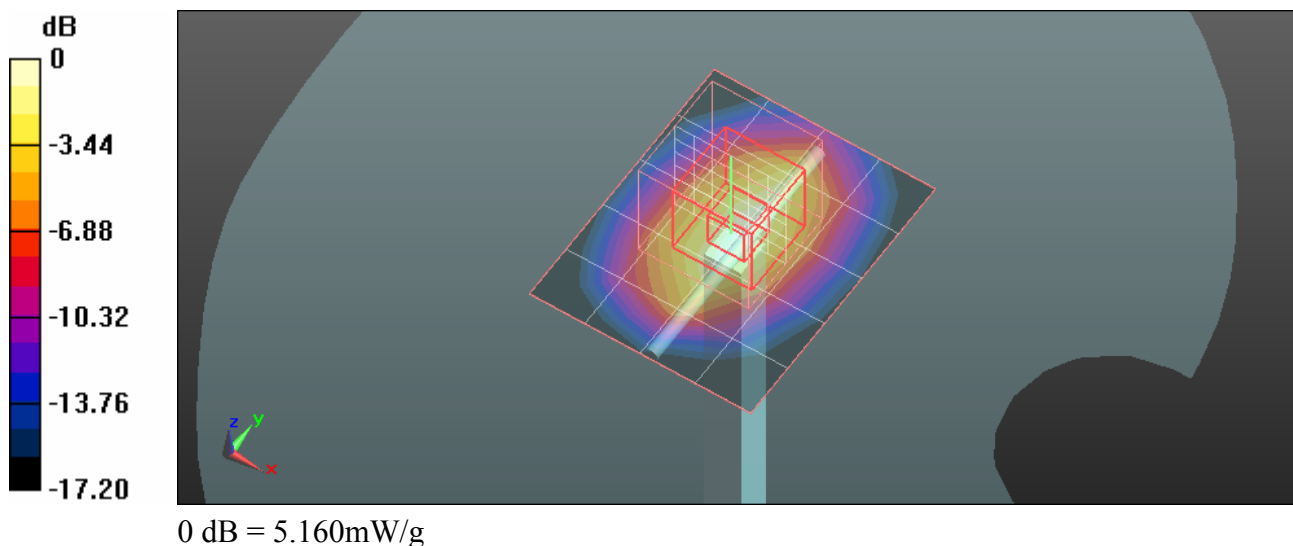
Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(7.42, 7.42, 7.42); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: SAM with CRP; Type: SAM; Serial: 1602
- Measurement SW: DASY52, Version 52.6 (1); SEMCAD X Version 14.4.2 (2595)

D1900V2/Pin=100 mW/Area Scan (5x6x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 5.007 mW/g

D1900V2/Pin=100 mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 61.996 V/m; Power Drift = -0.0036 dB
Peak SAR (extrapolated) = 7.084 W/kg
SAR(1 g) = 3.84 mW/g; SAR(10 g) = 2.02 mW/g
Maximum value of SAR (measured) = 5.161 mW/g



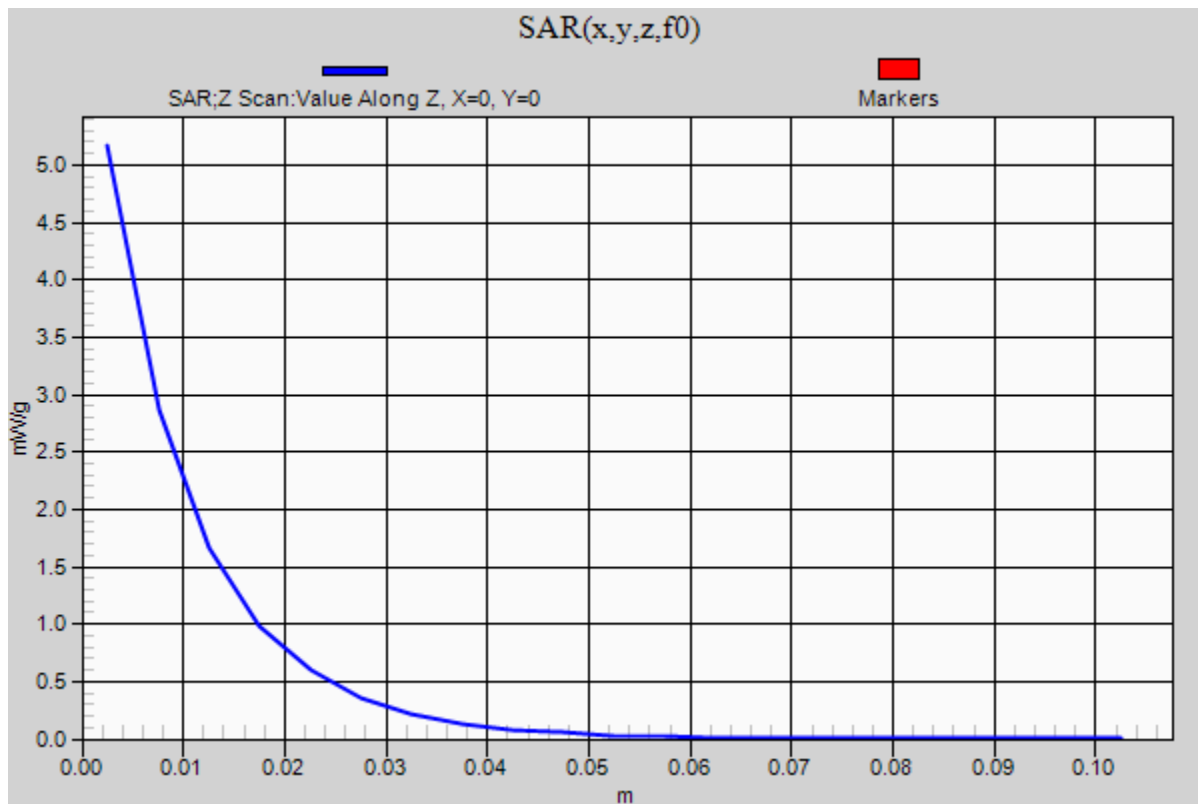
Test Laboratory: UL CCS

System Check_D1900V2_SN 5d043

DUT: Dipole D1900V2; Type: D1900V2; Serial: 5d043

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1

D1900V2/Pin=100 mW/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 5.166 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

System Performance Check - D2450V2

DUT: Dipole ; Type: D2450V2; Serial: 706

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ 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 a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3749; ConvF(6.9, 6.9, 6.9); Calibrated: 12/13/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN:1003
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=100mW/Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 6.34 mW/g

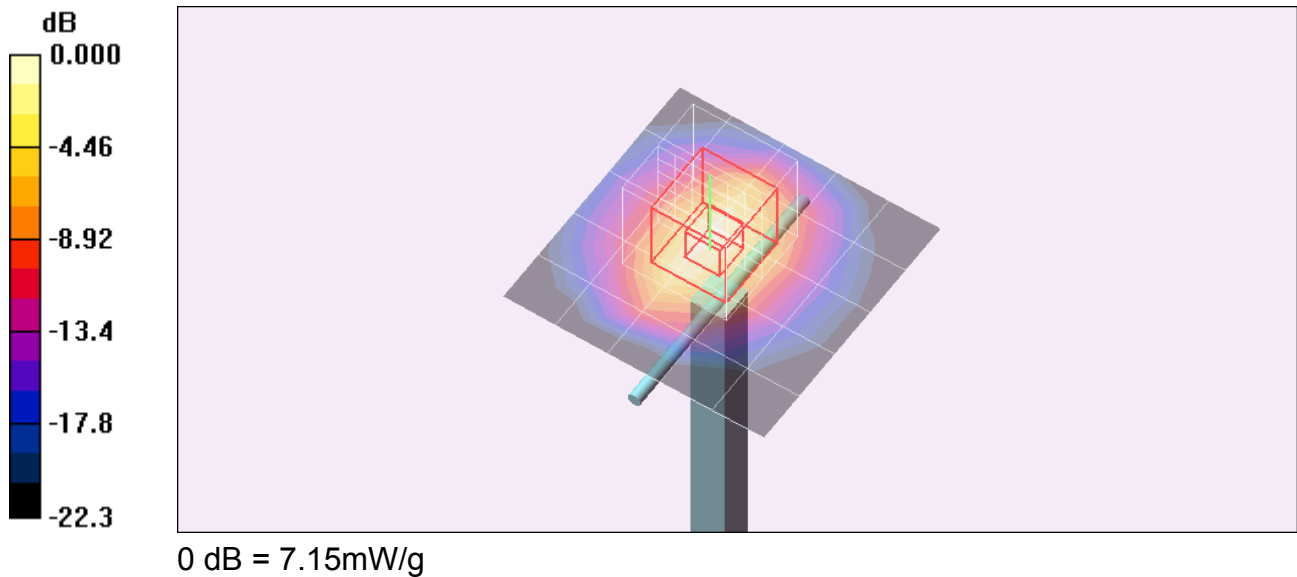
d=10mm, Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 58.8 V/m; Power Drift = 0.174 dB

Peak SAR (extrapolated) = 11.2 W/kg

SAR(1 g) = 5.38 mW/g; SAR(10 g) = 2.48 mW/g

Maximum value of SAR (measured) = 7.15 mW/g



Test Laboratory: Compliance Certification Services (UL CCS)

System Performance Check - D2450V2

DUT: Dipole ; Type: D2450V2; Serial: 706

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

d=10mm, Pin=100mW/Z Scan (1x1x34): Measurement grid: dx=20mm, dy=20mm, dz=3mm
Maximum value of SAR (measured) = 7.07 mW/g

