

APPENDIX A: TEST CONFIGURATIONS AND TEST DATA

A1: TEST CONFIGURATION

Mode a



Mode b



Mode I



Mode II





A2: TEST DATA

Wireless USB Adapter Mode a

Distance=0mm; Air temperature:24 degrees centigrade; Liquid temperature:21.9 degrees centigrade

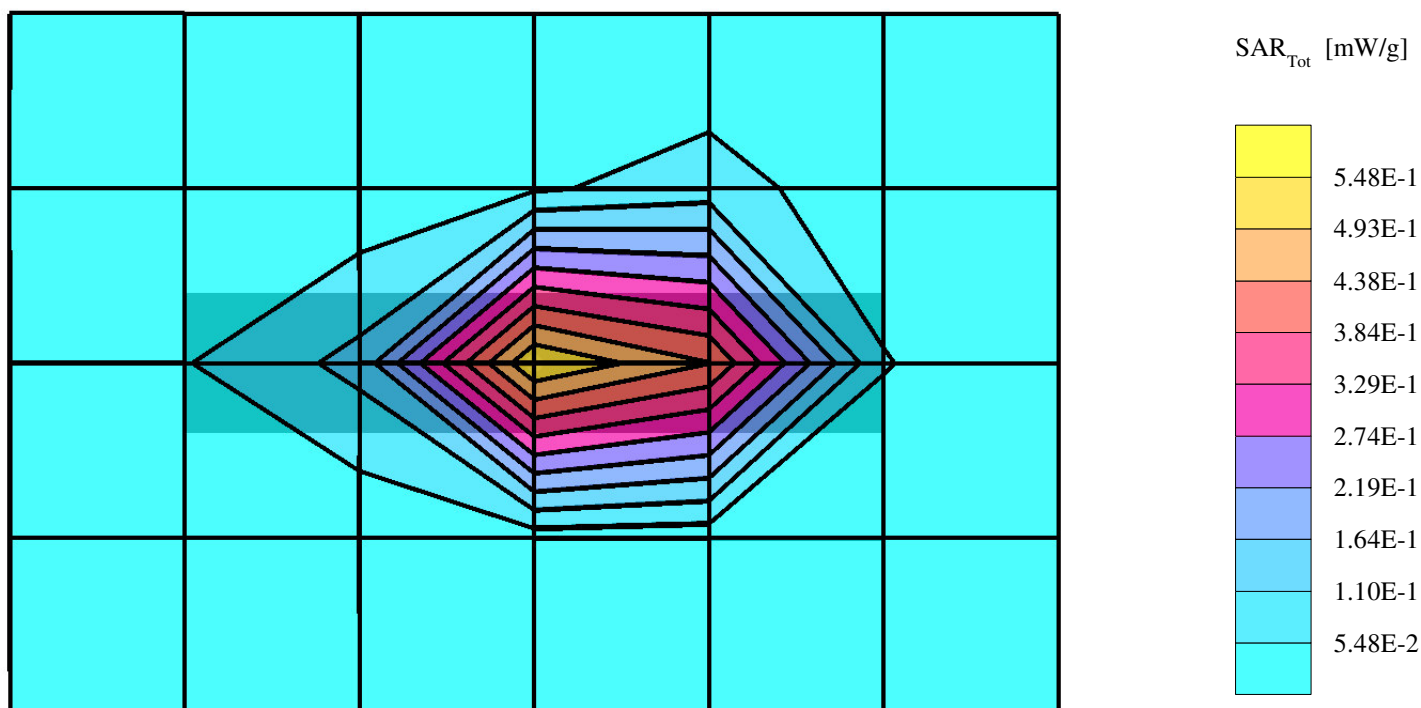
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 2412 MHz; Antenna type: Dipole

Probe: ET3DV6 - SN1687; ConvF(4.40,4.40,4.40); Crest factor: 1.0; Body 2412 MHz: $\sigma = 1.95$ mho/m $\epsilon_r = 53.1$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.526 mW/g, SAR (10g): 0.259 mW/g, (Worst-case extrapolation)

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.01 dB



Wireless USB Adapter Mode a

Distance=0mm; Air temperature:24 degrees centigrade; Liquid temperature:21.9 degrees centigrade

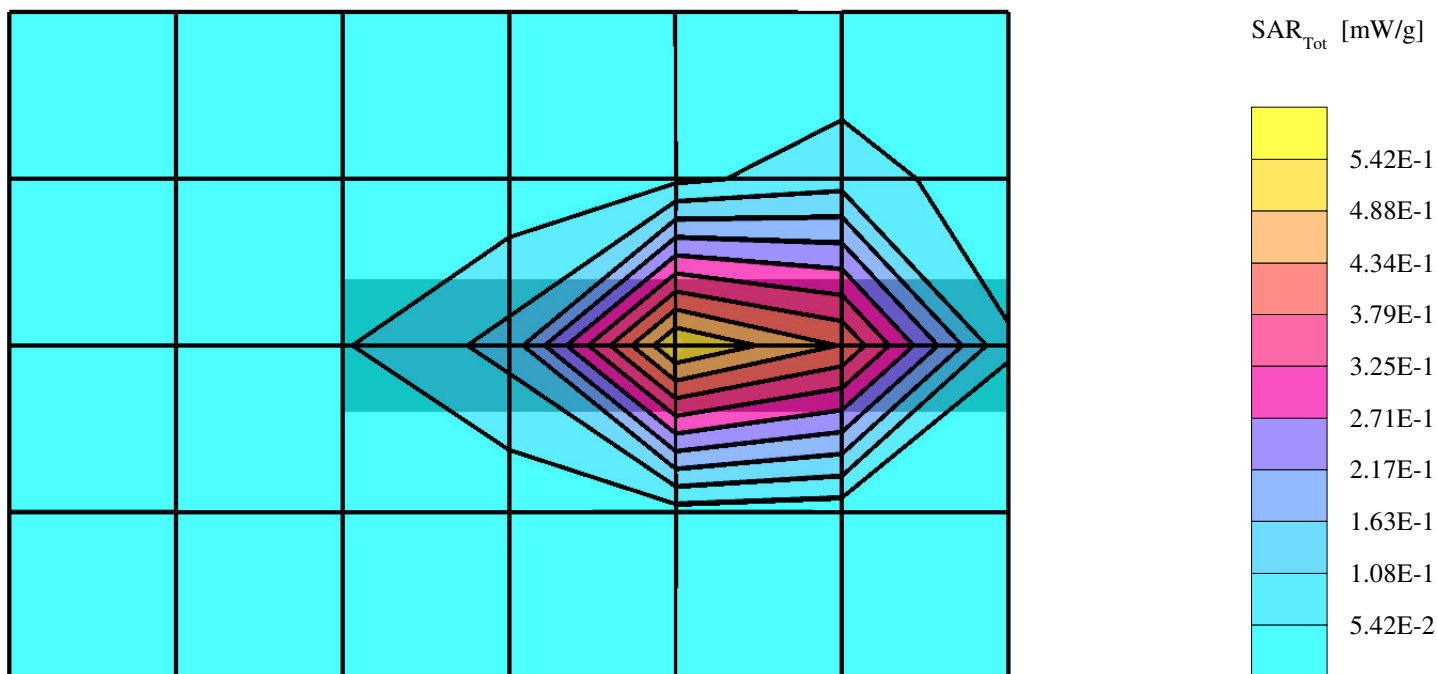
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 2437 MHz; Antenna type: Dipole

Probe: ET3DV6 - SN1687; ConvF(4.40,4.40,4.40); Crest factor: 1.0; Body 2437 MHz: $\sigma = 1.98$ mho/m $\epsilon_r = 53.0$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.516 mW/g, SAR (10g): 0.253 mW/g, (Worst-case extrapolation)

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.05 dB



Wireless USB Adapter Mode a

Distance=0mm; Air temperature:24 degrees centigrade; Liquid temperature:21.9 degrees centigrade

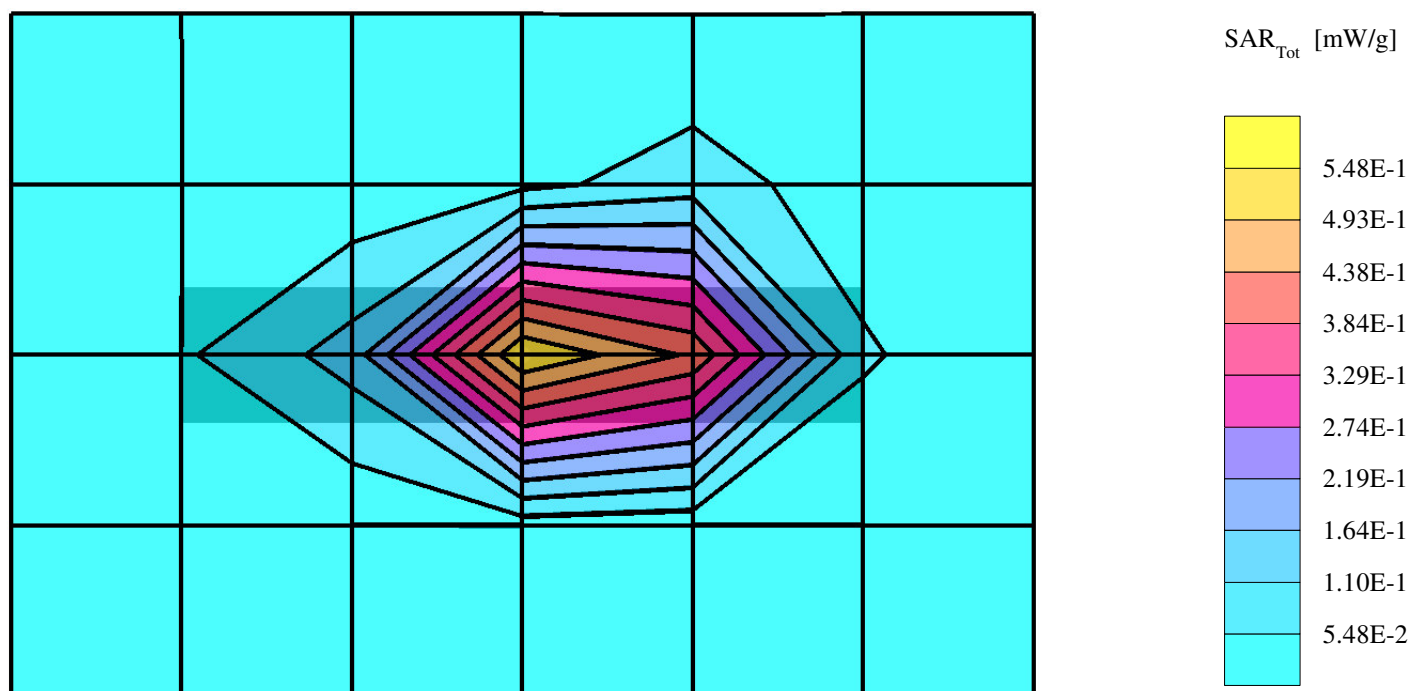
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 2462 MHz; Antenna type: Dipole

Probe: ET3DV6 - SN1687; ConvF(4.40,4.40,4.40); Crest factor: 1.0; Body 2462 MHz: $\sigma = 2.01$ mho/m $\epsilon_r = 52.9$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.526 mW/g, SAR (10g): 0.256 mW/g, (Worst-case extrapolation)

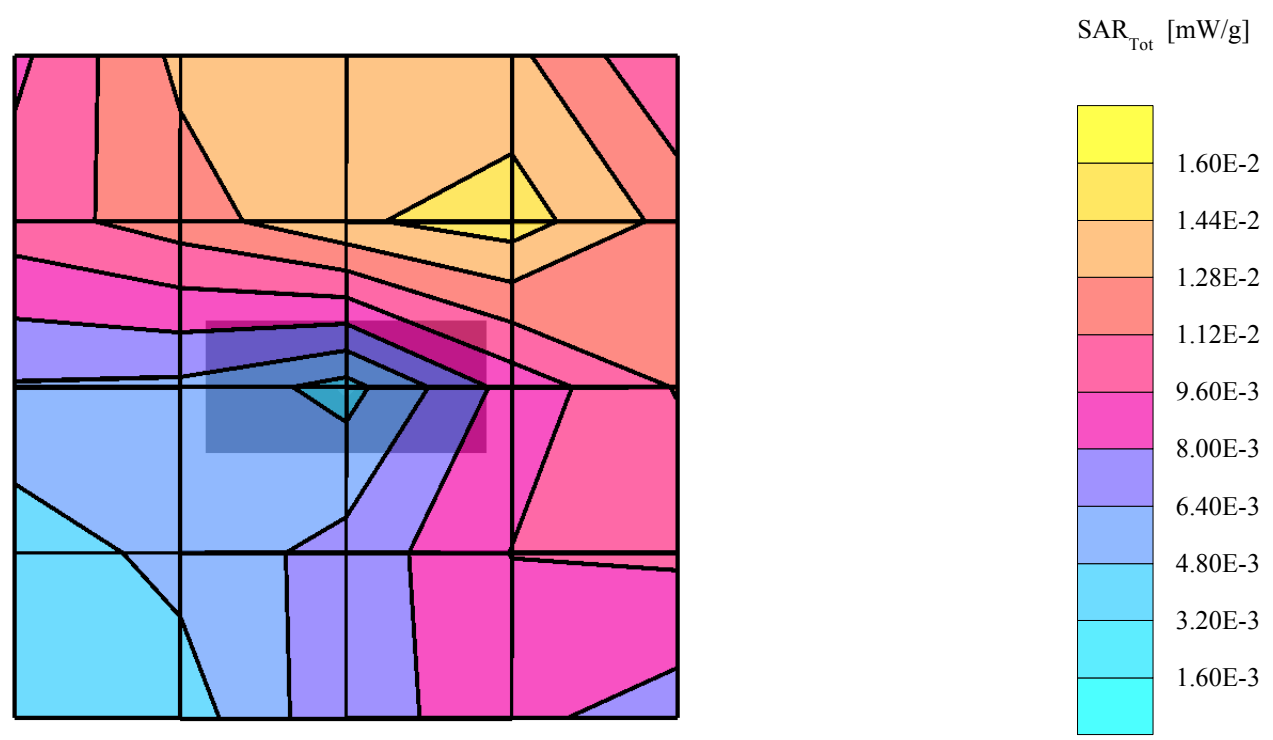
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.01 dB



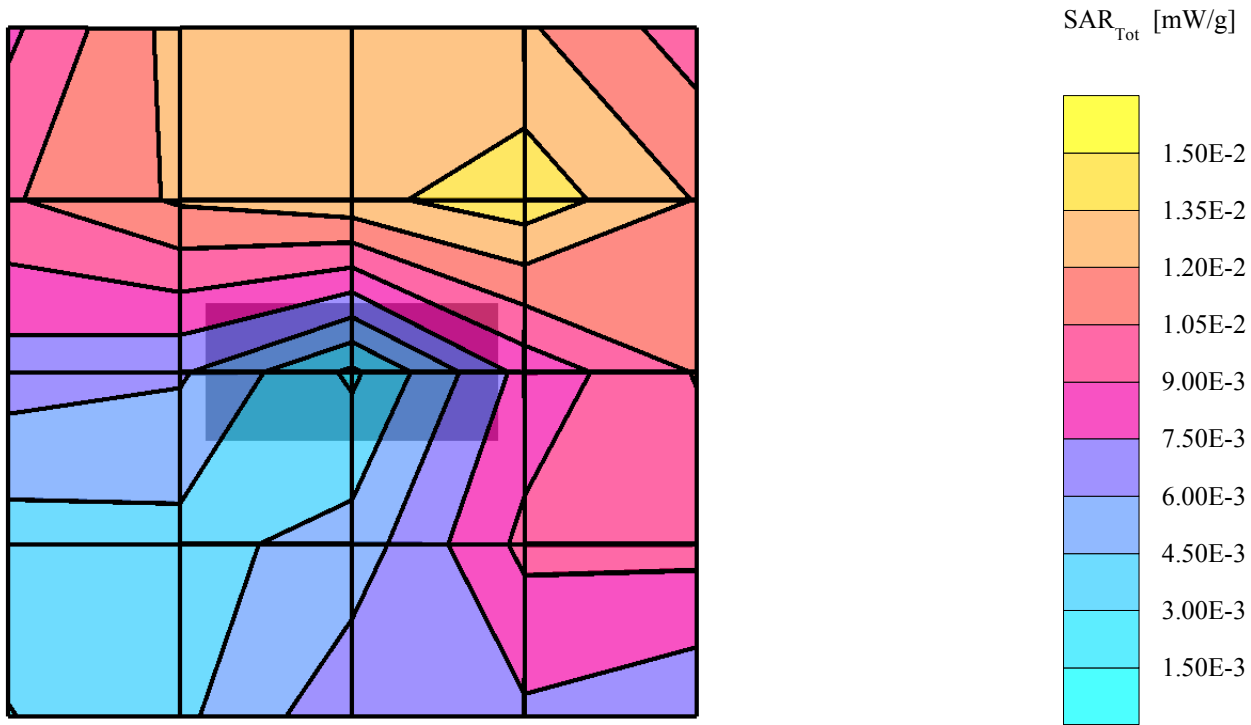
Wireless USB Adapter Mode b

Distance=15mm; Air temperature:24 degrees centigrade; Liquid temperature:21.9 degrees centigrade
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 2412 MHz; Antenna type: Dipole
Probe: ET3DV6 - SN1687; ConvF(4.40,4.40,4.40); Crest factor: 1.0; Body 2412 MHz: $\sigma = 1.95 \text{ mho/m}$ $\epsilon_r = 53.1$ $\rho = 1.00 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 0.0143 mW/g, SAR (10g): 0.0087 mW/g * Max outside, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: 0.12 dB



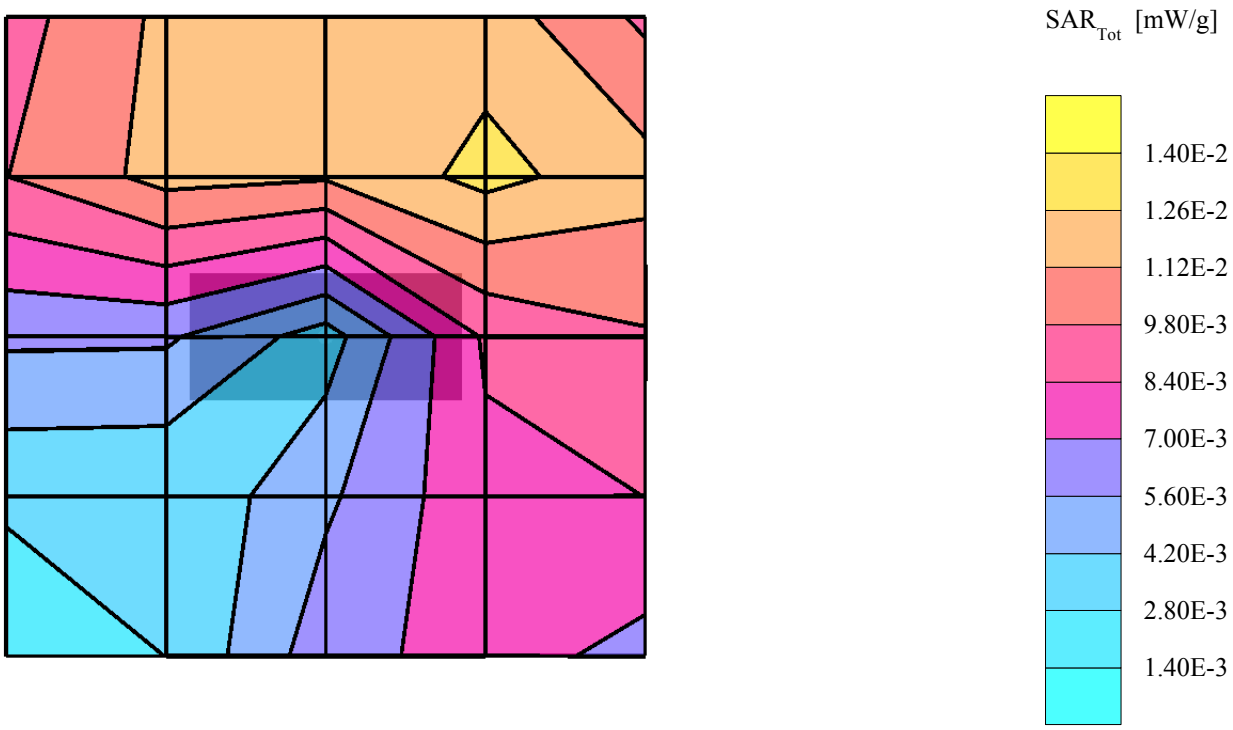
Wireless USB Adapter Mode b

Distance=15mm; Air temperature:24 degrees centigrade; Liquid temperature:21.9 degrees centigrade
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 2437 MHz; Antenna type: Dipole
Probe: ET3DV6 - SN1687; ConvF(4.40,4.40,4.40); Crest factor: 1.0; Body 2437 MHz: $\sigma = 1.98 \text{ mho/m}$ $\epsilon_r = 53.0$ $\rho = 1.00 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 0.0132 mW/g, SAR (10g): 0.0080 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.02 dB



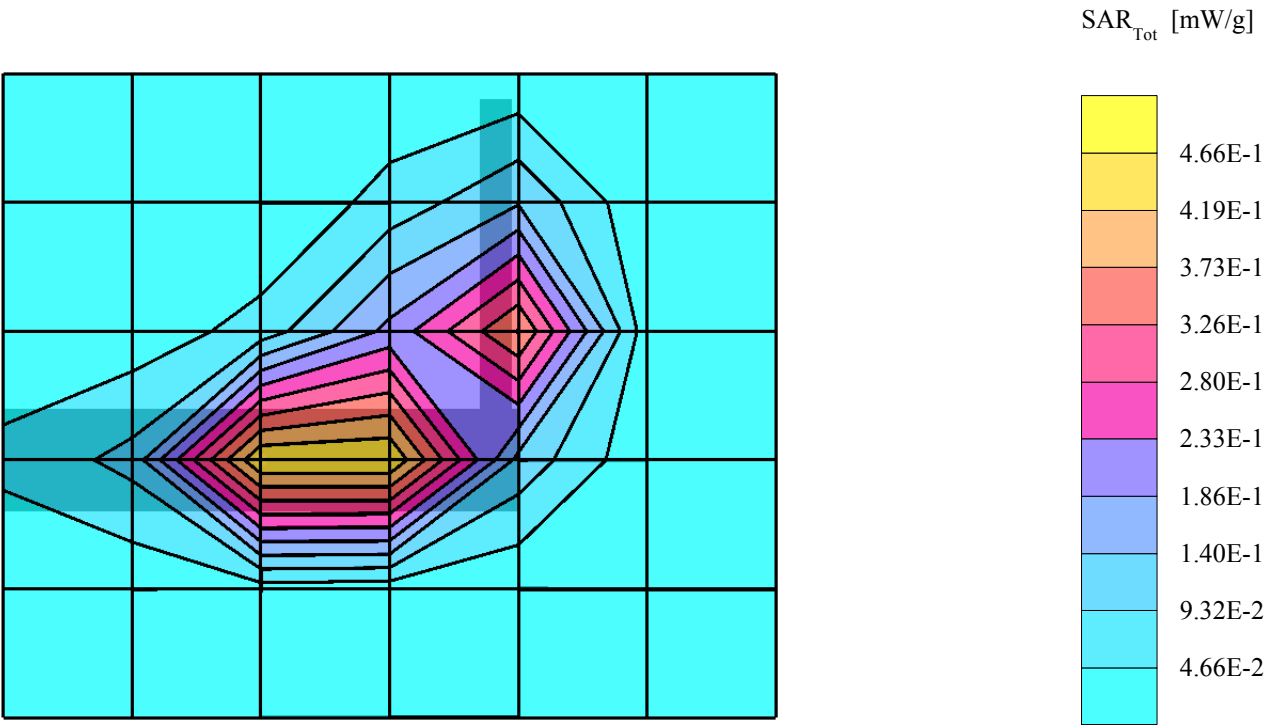
Wireless USB Adapter Mode b

Distance=15mm; Air temperature:24 degrees centigrade; Liquid temperature:21.9 degrees centigrade
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 2462 MHz; Antenna type: Dipole
Probe: ET3DV6 - SN1687; ConvF(4.40,4.40,4.40); Crest factor: 1.0; Body 2462 MHz: $\sigma = 2.01$ mho/m $\epsilon_r = 52.9$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 0.0128 mW/g, SAR (10g): 0.0076 mW/g * Max outside, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.02 dB



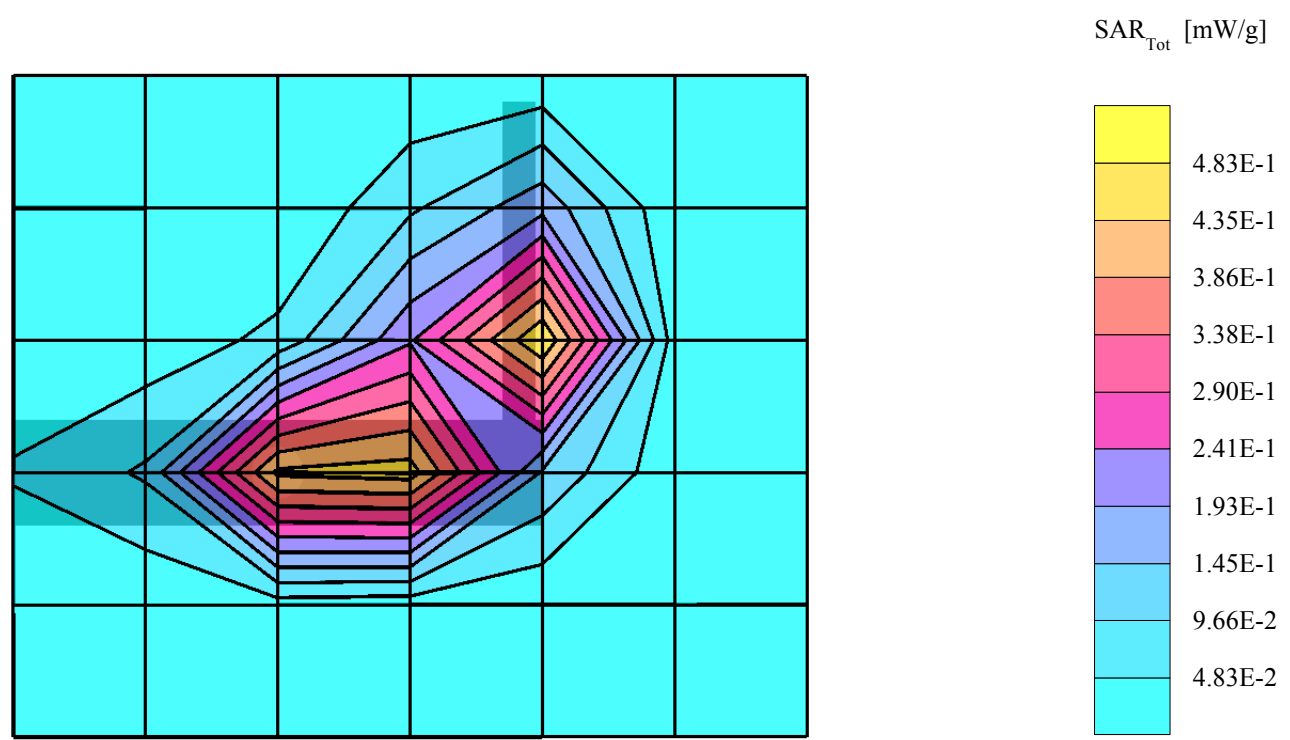
Wireless USB Adapter Mode I

Distance=0mm; Air temperature:24 degrees centigrade; Liquid temperature:22.8 degrees centigrade
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 2412 MHz; Antenna type: Inverted F
Probe: ET3DV6 - SN1687; ConvF(4.40,4.40,4.40); Crest factor: 1.0; Body 2412 MHz: $\sigma = 1.95 \text{ mho/m}$ $\epsilon_r = 53.1$ $\rho = 1.00 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 0.556 mW/g, SAR (10g): 0.289 mW/g * Max outside, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.02 dB



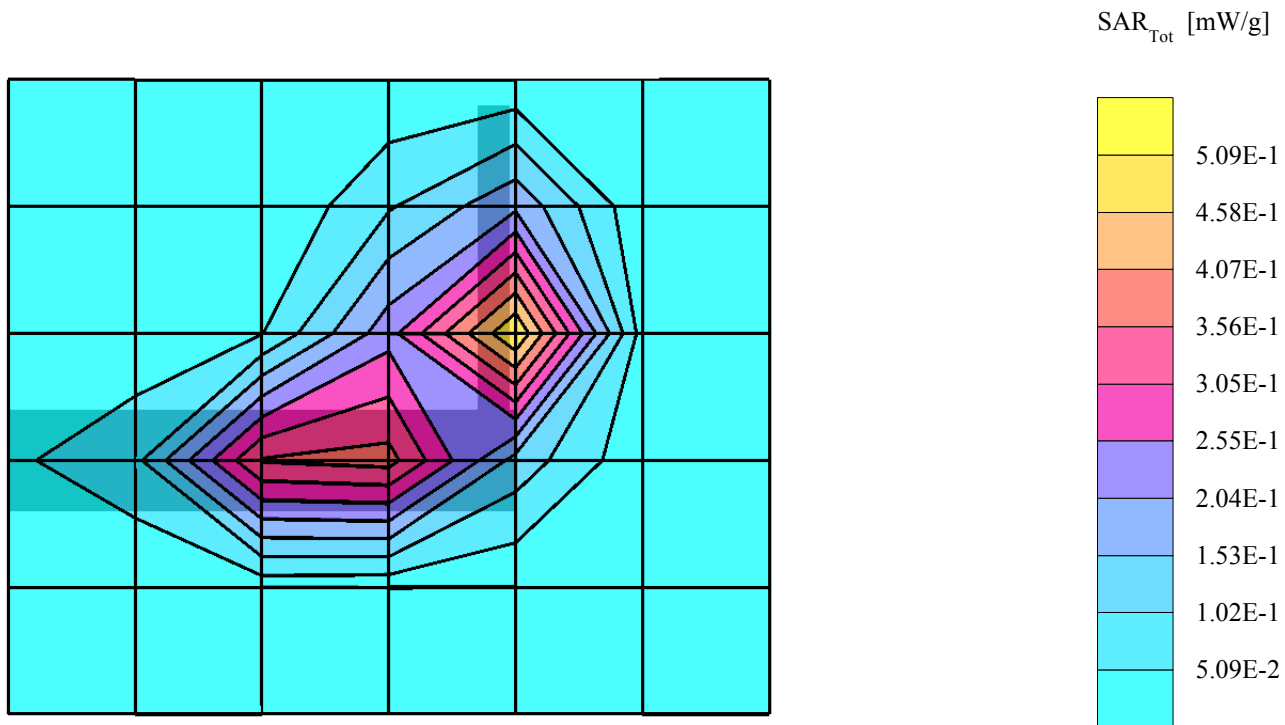
Wireless USB Adapter Mode I

Distance=0mm; Air temperature:24 degrees centigrade; Liquid temperature:22.8 degrees centigrade
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 2437 MHz; Antenna type: Inverted F
Probe: ET3DV6 - SN1687; ConvF(4.40,4.40,4.40); Crest factor: 1.0; Body 2437 MHz: $\sigma = 1.98 \text{ mho/m}$ $\epsilon_r = 53.0$ $\rho = 1.00 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 0.550 mW/g *, SAR (10g): 0.284 mW/g * Max outside, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.04 dB



Wireless USB Adapter Mode I

Distance=0mm; Air temperature:24 degrees centigrade; Liquid temperature:22.8 degrees centigrade
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 2462 MHz; Antenna type: Inverted F
Probe: ET3DV6 - SN1687; ConvF(4.40,4.40,4.40); Crest factor: 1.0; Body 2462 MHz: $\sigma = 2.01 \text{ mho/m}$ $\epsilon_r = 52.9$ $\rho = 1.00 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 0.580 mW/g, SAR (10g): 0.302 mW/g * Max outside, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.08 dB



Wireless USB Adapter Mode II

Distance=15mm; Air temperature:24 degrees centigrade; Liquid temperature:21.9 degrees centigrade

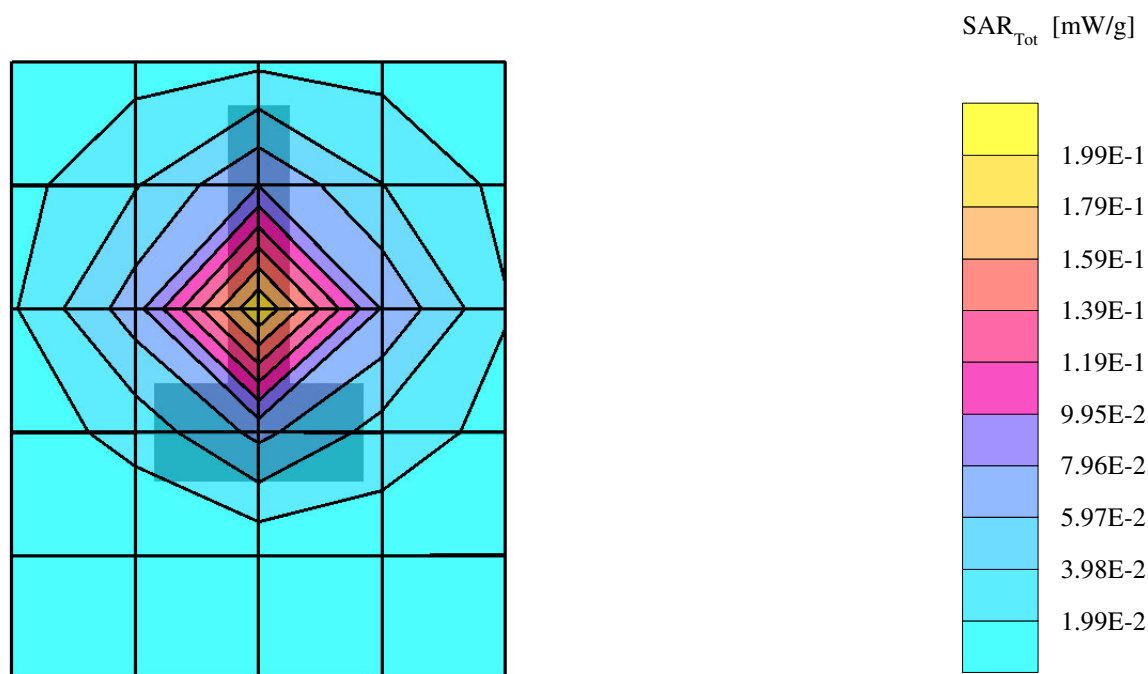
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 2412 MHz; Antenna type: Dipole

Probe: ET3DV6 - SN1687; ConvF(4.40,4.40,4.40); Crest factor: 1.0; Body 2412 MHz: $\sigma = 1.95$ mho/m $\epsilon_r = 53.1$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.180 mW/g, SAR (10g): 0.0976 mW/g, (Worst-case extrapolation)

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.00 dB



Wireless USB Adapter Mode II

Distance=15mm; Air temperature:24 degrees centigrade; Liquid temperature:21.9 degrees centigrade

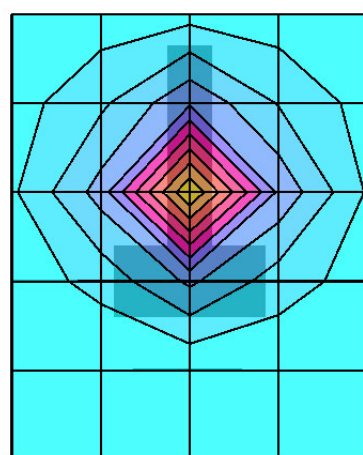
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 2437 MHz; Antenna type: Dipole

Probe: ET3DV6 - SN1687; ConvF(4.40,4.40,4.40); Crest factor: 1.0; Body 2437 MHz: $\sigma = 1.98$ mho/m $\epsilon_r = 53.0$ $\rho = 1.00$ g/cm³

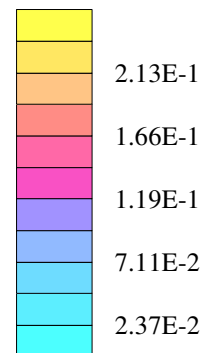
Cube 5x5x7: SAR (1g): 0.215 mW/g, SAR (10g): 0.116 mW/g, (Worst-case extrapolation)

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.04 dB



SAR_{Tot} [mW/g]



Wireless USB Adapter Mode II

Distance=15mm; Air temperature:24 degrees centigrade; Liquid temperature:21.9 degrees centigrade

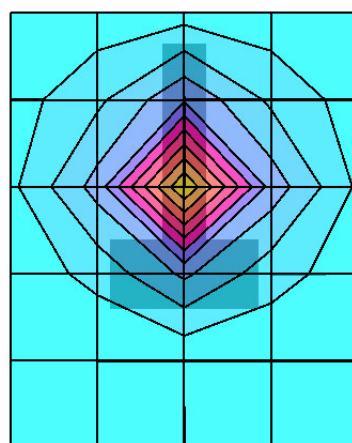
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 2462 MHz; Antenna type: Dipole

Probe: ET3DV6 - SN1687; ConvF(4.40,4.40,4.40); Crest factor: 1.0; Body 2462 MHz: $\sigma = 2.01$ mho/m $\epsilon_r = 52.9$ $\rho = 1.00$ g/cm³

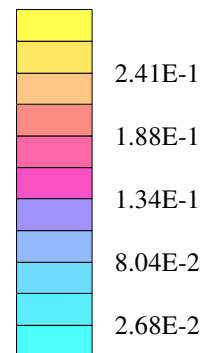
Cube 5x5x7: SAR (1g): 0.243 mW/g, SAR (10g): 0.130 mW/g, (Worst-case extrapolation)

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.01 dB



SAR_{Tot} [mW/g]





A3: VALIDATION TEST DATA

Validation Dipole D2450V2 SN:716,d=10mm

SAM; Flat; Air temperature:24 degrees centigrade; Liquid temperature:21.9 degrees centigrade

Probe: ET3DV6 - SN1687; ConvF(4.40,4.40,4.40); Crest factor: 1.0; Body 2450 MHz: $\sigma = 2.00$ mho/m $\epsilon_r = 53.0$ $\rho = 1.00$ g/cm³

Cubes (2): Peak: 5.56 mW/g ± 0.04 dB, SAR (1g): 2.80 mW/g ± 0.04 dB, SAR (10g): 1.33 mW/g ± 0.04 dB, (Worst-case extrapolation)

Penetration depth: 7.7 (7.2, 8.9) [mm]

