

Appendix B:SAR Measurement results Plots

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2.4G WiFi Body
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Test Laboratory: CTI SAR Lab

WiFi 802.11b 1CH position 4 0mm-Ant1

DUT: Portable PC; Type: NA; Serial: NA

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.795$ S/m; $\epsilon_r = 38.308$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.68, 7.68, 7.68); Calibrated: 2/8/2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2020
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 1.55 W/kg

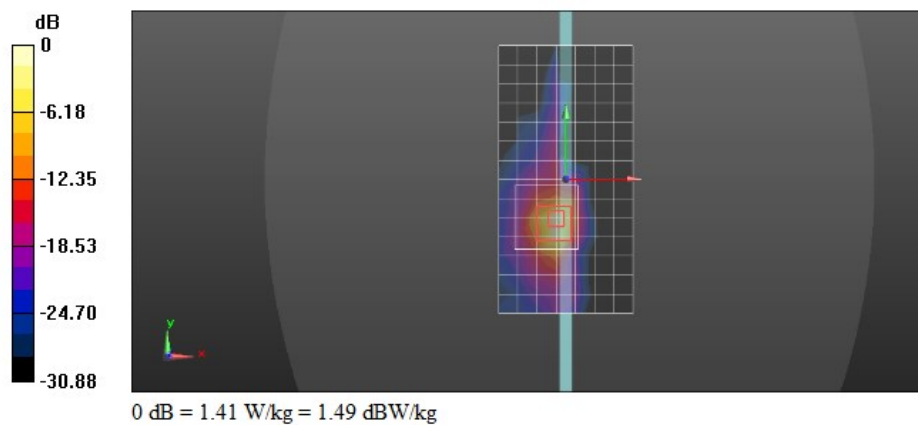
Configuration/Body/Zoom Scan (9x9x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.536 V/m; Power Drift = -1.03 dB

Peak SAR (extrapolated) = 2.47 W/kg

SAR(1 g) = 0.592 W/kg; SAR(10 g) = 0.192 W/kg

Maximum value of SAR (measured) = 1.41 W/kg



Test Laboratory: CTI SAR Lab

WiFi 802.11b 1CH position 4 0mm-Ant2

DUT: Portable PC; Type: NA; Serial: NA

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.795$ S/m; $\epsilon_r = 38.308$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.68, 7.68, 7.68); Calibrated: 2/8/2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2020
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.980 W/kg

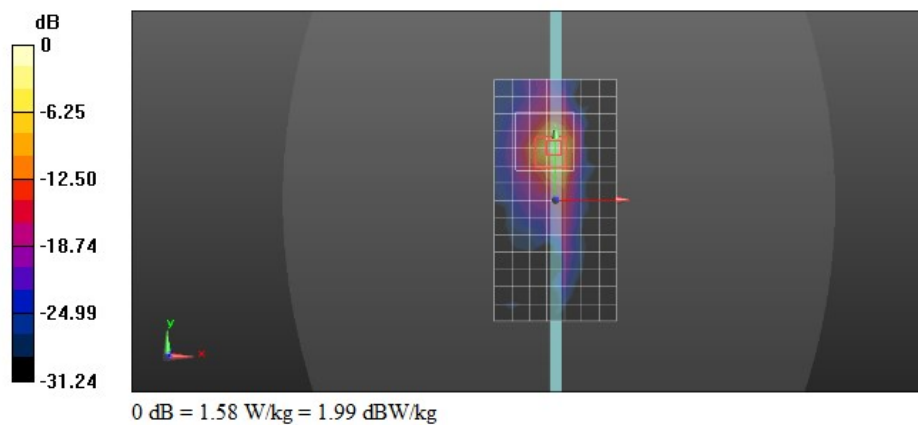
Configuration/Body/Zoom Scan (9x9x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 5.352 V/m; Power Drift = -0.95 dB

Peak SAR (extrapolated) = 2.79 W/kg

SAR(1 g) = 0.665 W/kg; SAR(10 g) = 0.209 W/kg

Maximum value of SAR (measured) = 1.58 W/kg



Test Laboratory: CTI SAR Lab

802.11a 36CH Position 3 with 0mm-Ant2

DUT: Portable PC; Type: NA; Serial: NA

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.2G; Frequency: 5180 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5180$ MHz; $\sigma = 4.546$ S/m; $\epsilon_r = 34.904$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(5.46, 5.46, 5.46); Calibrated: 2/8/2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2020
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (19x9x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.34 W/kg

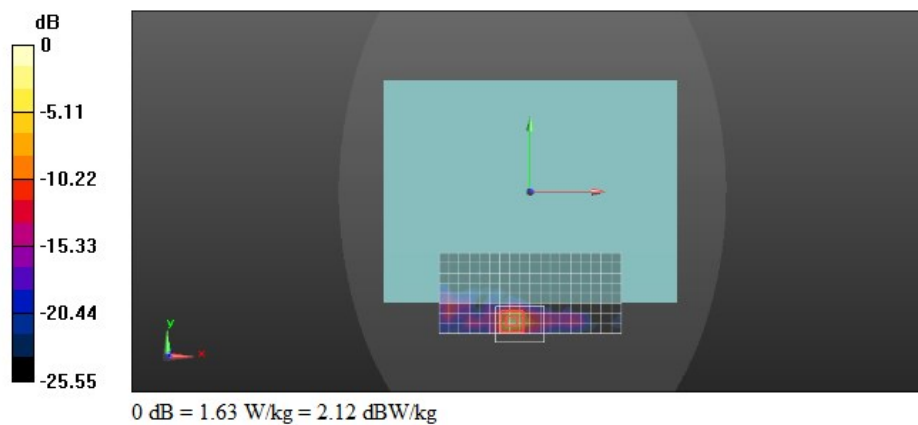
Configuration/Body/Zoom Scan (13x10x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 0.657 W/kg; SAR(10 g) = 0.163 W/kg

Maximum value of SAR (measured) = 1.63 W/kg



Test Laboratory: CTI SAR Lab

802.11a 48CH Position 3 with 0mm-Ant1

DUT: Portable PC; Type: NA; Serial: NA

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.2G; Frequency: 5240 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5240$ MHz; $\sigma = 4.6$ S/m; $\epsilon_r = 34.811$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(5.46, 5.46, 5.46); Calibrated: 2/8/2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2020
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (19x9x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.05 W/kg

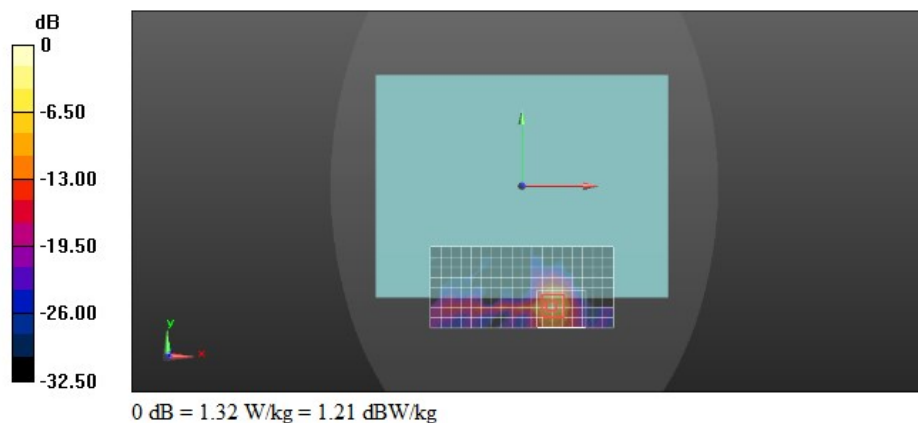
Configuration/Body/Zoom Scan (13x10x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.7440 V/m; Power Drift = -0.96 dB

Peak SAR (extrapolated) = 2.17 W/kg

SAR(1 g) = 0.472 W/kg; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 1.32 W/kg



Test Laboratory: CTI SAR Lab

802.11a 149CH Position 3 with 0mm-Ant1

DUT: Portable PC; Type: NA; Serial: NA

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.8G; Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.447$ S/m; $\epsilon_r = 35.443$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(4.9, 4.9, 4.9); Calibrated: 2/8/2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2020
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (19x9x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.980 W/kg

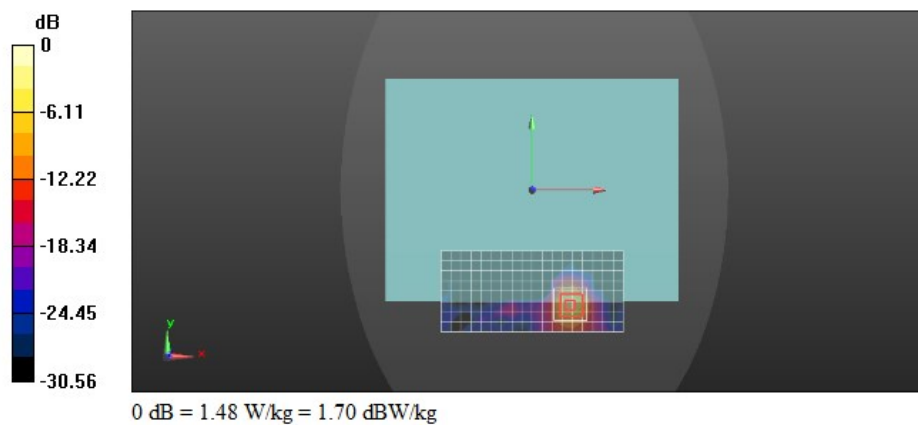
Configuration/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 2.70 W/kg

SAR(1 g) = 0.529 W/kg; SAR(10 g) = 0.151 W/kg

Maximum value of SAR (measured) = 1.48 W/kg



Test Laboratory: CTI SAR Lab

802.11a 157CH Position 4 with 0mm-Ant2

DUT: Portable PC; Type: NA; Serial: NA

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.8G; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.477$ S/m; $\epsilon_r = 35.499$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(4.9, 4.9, 4.9); Calibrated: 2/8/2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2020
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (7x21x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.864 W/kg

Configuration/Body/Zoom Scan (9x10x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 0.336 W/kg; SAR(10 g) = 0.120 W/kg

Maximum value of SAR (measured) = 0.914 W/kg

