

APPENDIX A: SAR TEST DATA

PCTEST

DUT: A3LSMG998U; Type: Portable Handset; Serial: 3921S

Communication System: UID 0, NR Band n48; Frequency: 3624.99 MHz; Duty Cycle: 1:1
Medium: 3600 Head; Medium parameters used (interpolated):
 $f = 3624.99$ MHz; $\sigma = 2.936$ S/m; $\epsilon_r = 36.702$; $\rho = 1000$ kg/m³
Phantom section: Right Section

Test Date: 11/23/2020; Ambient Temp: 21.4°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7539; ConvF(6.55, 6.55, 6.55) @ 3624.99 MHz; Calibrated: 10/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn728; Calibrated: 5/20/2020
Phantom: Twin-SAM V8.0 (20); Type: QD 000 P41 Ax; Serial: 1966
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n48, Right Head, Cheek, 40 MHz Bandwidth,
DFT-s-OFDM QPSK, Ch. 641666, 50 RB, 0 RB Offset**

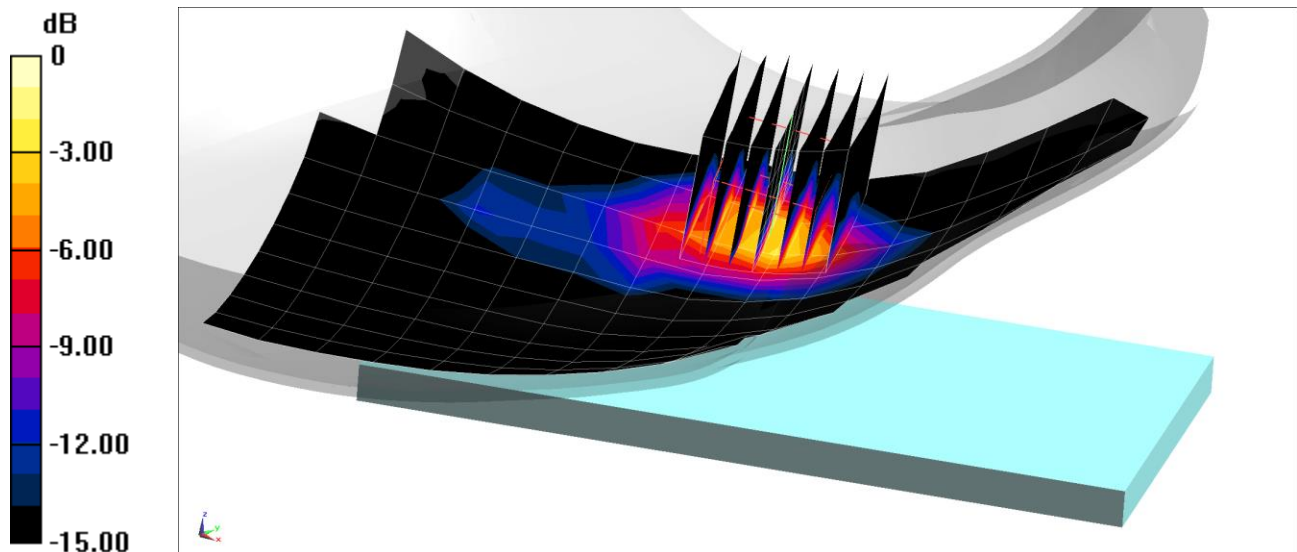
Area Scan (11x16x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 13.54 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.335 W/kg



0 dB = 0.750 W/kg = -1.25 dBW/kg

PCTEST

DUT: A3LSMG998U; Type: Portable Handset; Serial: 3972S

Communication System: UID 0, NR Band n48; Frequency: 3624.99 MHz; Duty Cycle: 1:1
Medium: 3600 Body; Medium parameters used (interpolated):
 $f = 3624.99$ MHz; $\sigma = 3.47$ S/m; $\epsilon_r = 51.601$; $\rho = 1000$ kg/m³
Phantom section: Flat Section; Space: 1.5 cm

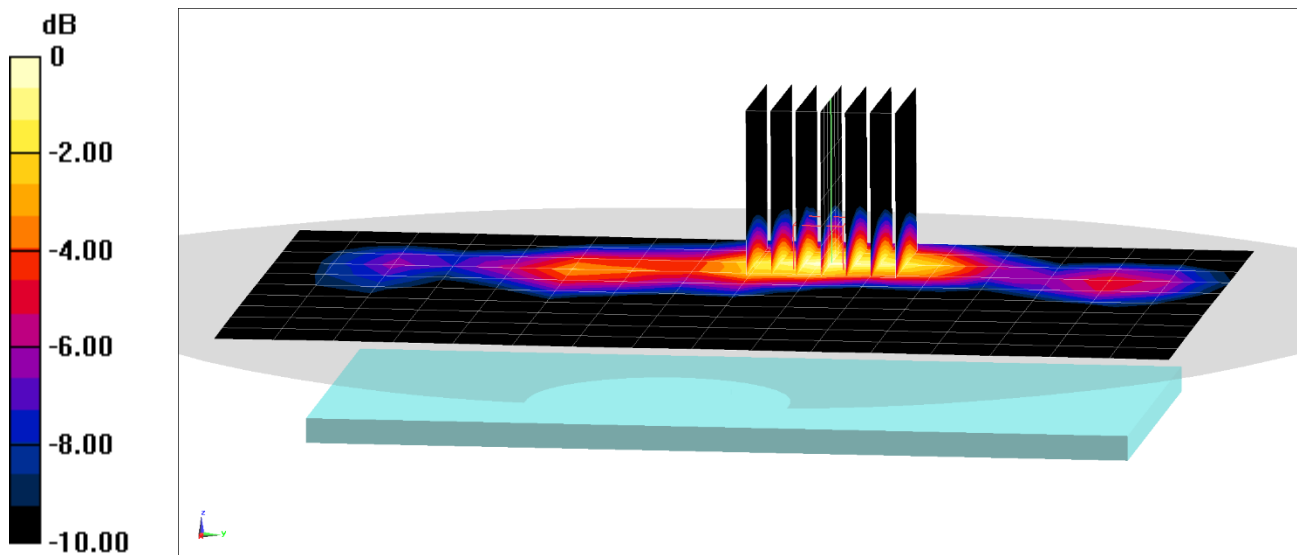
Test Date: 11/18/2020; Ambient Temp: 22.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7539; ConvF(6.48, 6.48, 6.48) @ 3624.99 MHz; Calibrated: 10/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn728; Calibrated: 5/20/2020
Phantom: Twin-SAM V5.0 (left 20); Type: QD 000 P40 CD; Serial: 1630
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n48, Body SAR, Back side, 40 MHz Bandwidth,
DFT-s-OFDM QPSK, Ch. 641666, 50 RB, 28 RB Offset**

Area Scan (11x17x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 6.713 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.343 W/kg
SAR(1 g) = 0.143 W/kg



0 dB = 0.255 W/kg = -5.93 dBW/kg

PCTEST

DUT: A3LSMG998U; Type: Portable Handset; Serial: 3972S

Communication System: UID 0, NR Band n48; Frequency: 3624.99 MHz; Duty Cycle: 1:1
Medium: 3600 Body; Medium parameters used (interpolated):
 $f = 3624.99$ MHz; $\sigma = 3.47$ S/m; $\epsilon_r = 51.601$; $\rho = 1000$ kg/m³
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 11/18/2020; Ambient Temp: 22.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7539; ConvF(6.48, 6.48, 6.48) @ 3624.99 MHz; Calibrated: 10/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn728; Calibrated: 5/20/2020
Phantom: Twin-SAM V5.0 (left 20); Type: QD 000 P40 CD; Serial: 1630
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n48, Body SAR, Right Edge, 40 MHz Bandwidth,
DFT-s-OFDM QPSK, Ch. 641666, 50 RB, 28 RB Offset**

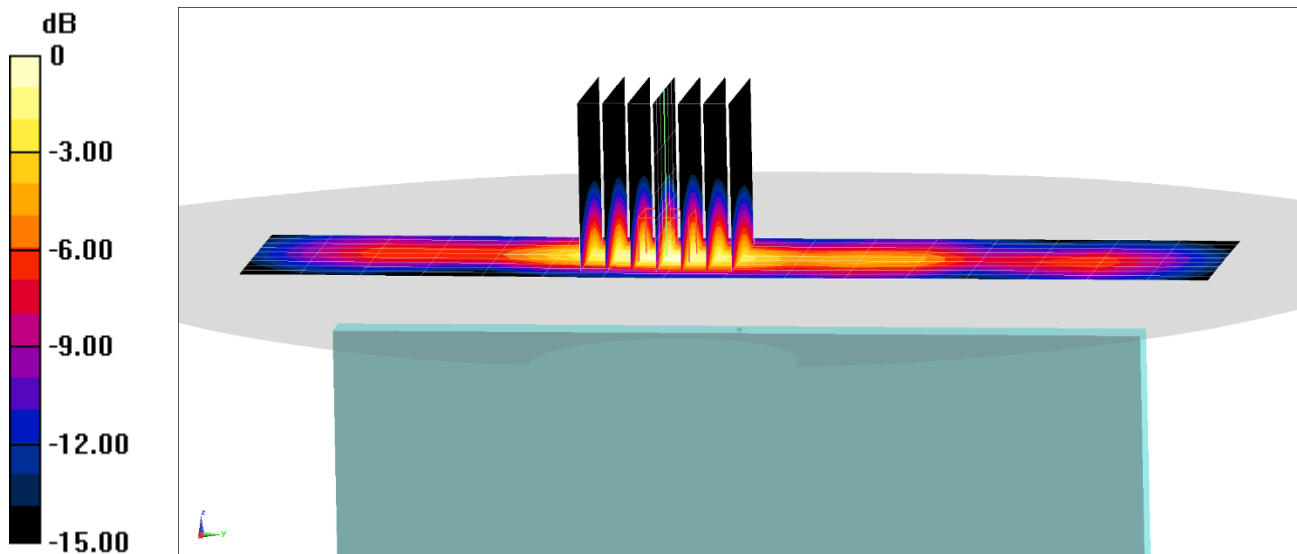
Area Scan (10x17x1): Measurement grid: dx=5mm, dy=12mm

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 12.06 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.436 W/kg



0 dB = 0.833 W/kg = -0.79 dBW/kg

PCTEST

DUT: A3LSMG998U; Type: Portable Handset; Serial: 3972S

Communication System: UID 0, NR Band n48; Frequency: 3679.98 MHz; Duty Cycle: 1:1
Medium: 3600 Body; Medium parameters used (interpolated):
 $f = 3679.98$ MHz; $\sigma = 3.559$ S/m; $\epsilon_r = 49.085$; $\rho = 1000$ kg/m³
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 12/01/2020; Ambient Temp: 23.1°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7539; ConvF(6.48, 6.48, 6.48) @ 3679.98 MHz; Calibrated: 10/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn728; Calibrated: 5/20/2020
Phantom: Twin-SAM V8.0 (20); Type: QD 000 P41 Ax; Serial: 1966
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n48, Phablet SAR, Right Edge, 40 MHz Bandwidth,
DFT-s-OFDM QPSK, Ch. 645332, 50 RB, 28 RB Offset**

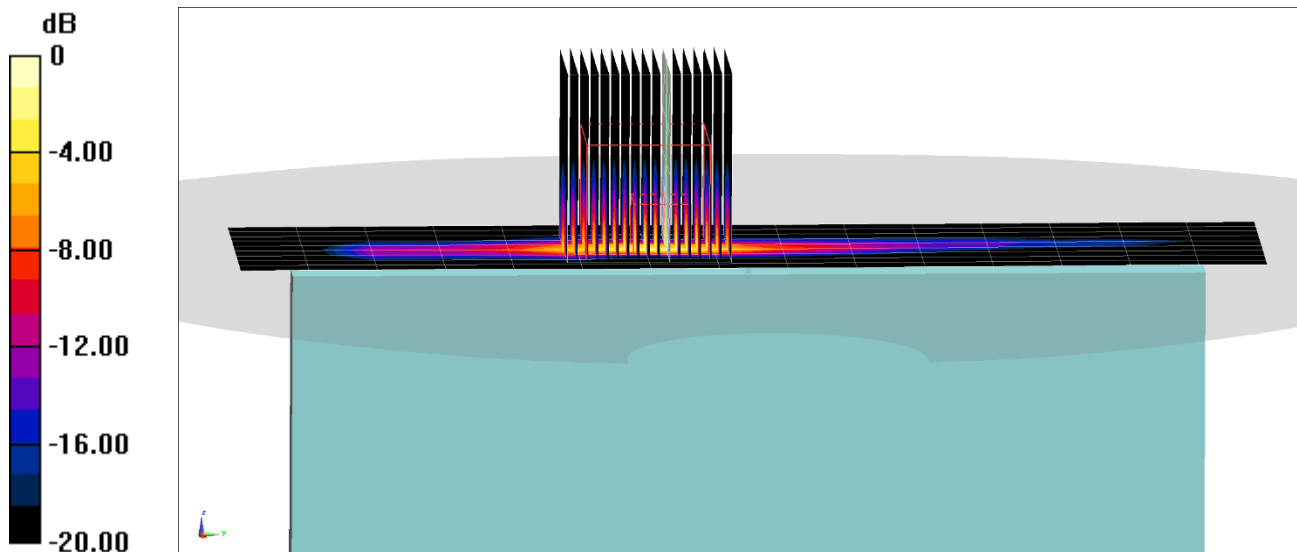
Area Scan (10x16x1): Measurement grid: dx=5mm, dy=12mm

Zoom Scan (17x17x8)/Cube 0: Measurement grid: dx=1.8mm, dy=1.8mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 49.76 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 38.5 W/kg

SAR(10 g) = 1.79 W/kg



0 dB = 21.8 W/kg = 13.38 dBW/kg