

APPENDIX B Plots Of The SAR Measurements

Plots of the measured SAR distributions inside the phantom are given in this Appendix for all tested configurations. The spatial peak SAR values were assessed with the procedure described in this report.



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Face Frontal FCC 26-06-14.da52:0

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL**Configuration: Face Frontal**

Communication System: 0 - CW (0); Communication System Band: Simoco 450 MHz; Frequency: 440.1 MHz; Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=440$ MHz; $\sigma = 0.84$ S/m; $\epsilon_r = 45.2$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

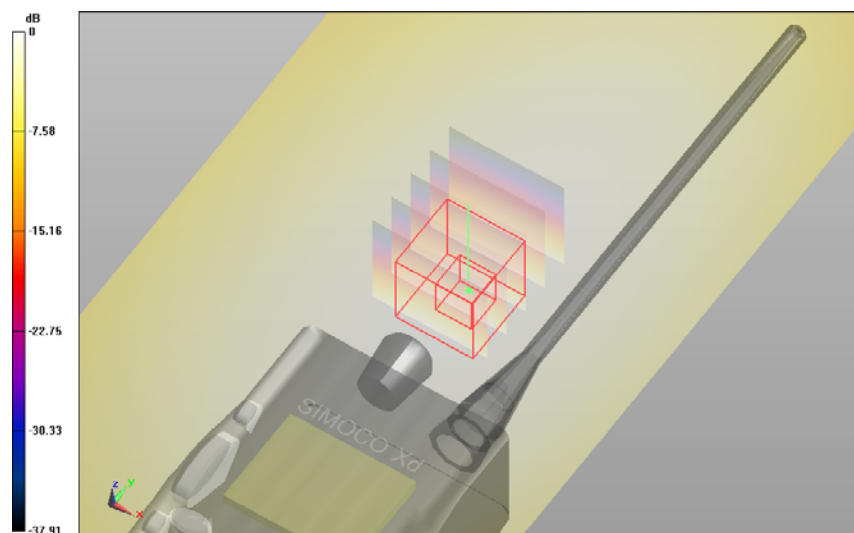
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Face Frontal/Channel 1 Test/Area Scan (281x81x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 6.010 W/kg

Face Frontal/Channel 1 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 77.140 V/m; **Power Drift = -0.20 dB**

Averaged SAR: SAR(1g) = 5.570 W/kg; SAR(10g) = 4.180 W/kg

Maximum value of SAR (interpolated) = 7.240 W/kg



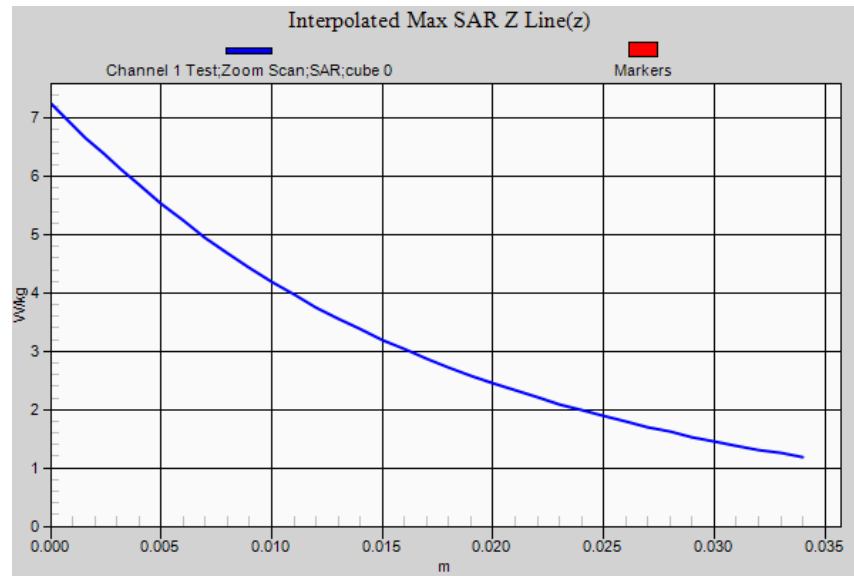
0 dB = 6.01 W/kg = 7.79 dBW/kg

SAR Measurement Plot 1



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Face Frontal FCC 26-06-14.da52:0

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL**Configuration: Face Frontal**

Communication System: 0 - CW (0); Communication System Band: Simoco 450 MHz; Frequency: 458.0 MHz; Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=458$ MHz; $\sigma = 0.86$ S/m; $\epsilon_r = 44.8$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

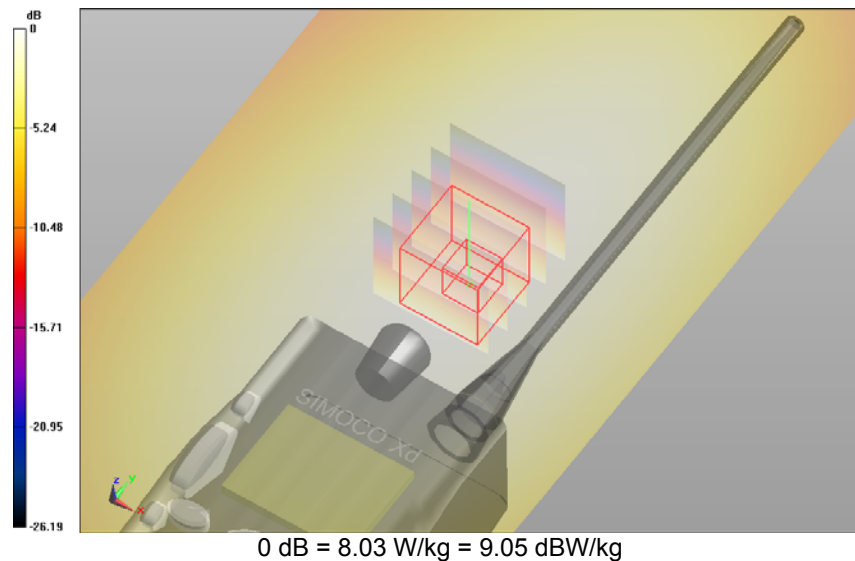
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Face Frontal/Channel 2 Test/Area Scan (221x81x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 8.030 W/kg

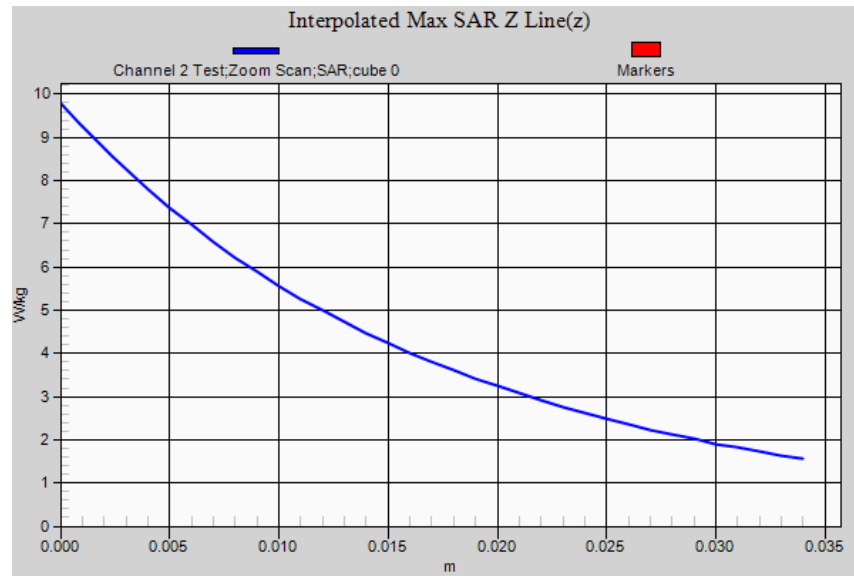
Face Frontal/Channel 2 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 90.141 V/m; **Power Drift = -0.14 dB**

Averaged SAR: SAR(1g) = 7.440 W/kg; SAR(10g) = 5.570 W/kg

Maximum value of SAR (interpolated) = 9.770 W/kg



SAR Measurement Plot 2



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Face Frontal FCC 26-06-14.da52:0

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL**Configuration: Face Frontal**

Communication System: 0 - CW (0); Communication System Band: Simoco 450 MHz; Frequency: 476.0 MHz; Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=476$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 44.5$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

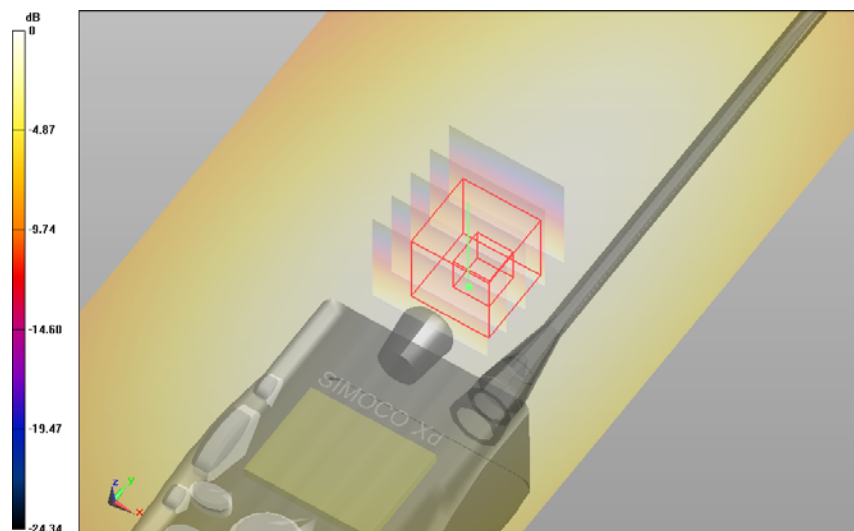
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Face Frontal/Channel 3 Test/Area Scan (221x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 6.340 W/kg

Face Frontal/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 77.994 V/m; **Power Drift = -0.15 dB**

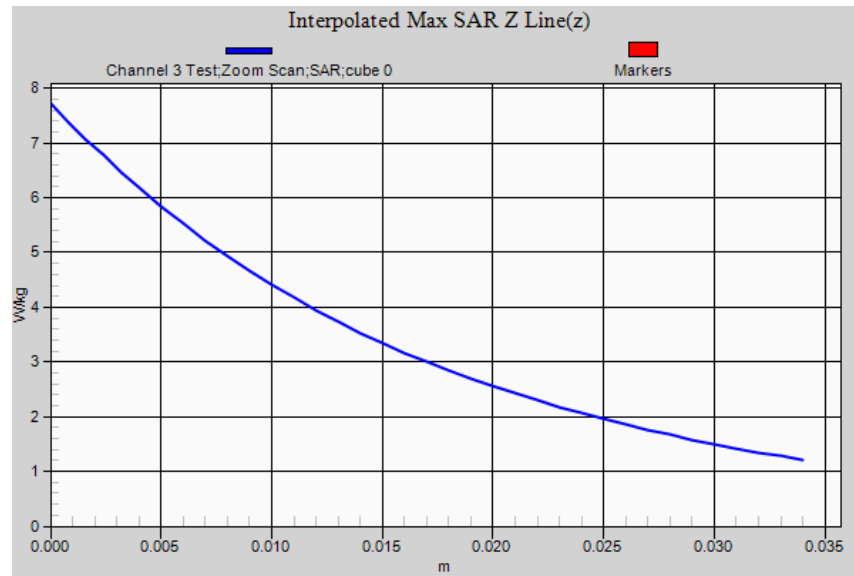
Averaged SAR: SAR(1g) = 5.890 W/kg; SAR(10g) = 4.400 W/kg

Maximum value of SAR (interpolated) = 7.710 W/kg



0 dB = 6.34 W/kg = 8.02 dBW/kg

SAR Measurement Plot 3



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Face Frontal FCC 26-06-14.da52:0

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL**Configuration: Face Frontal**

Communication System: 0 - CW (0); Communication System Band: Simoco 450 MHz; Frequency: 494.0 MHz; Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=494$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 44.1$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

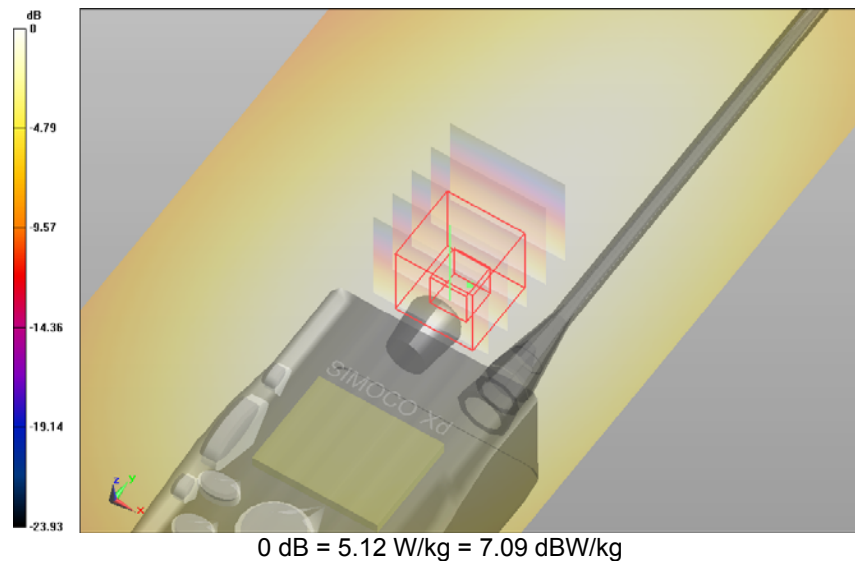
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Face Frontal/Channel 4 Test/Area Scan (221x81x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 5.120 W/kg

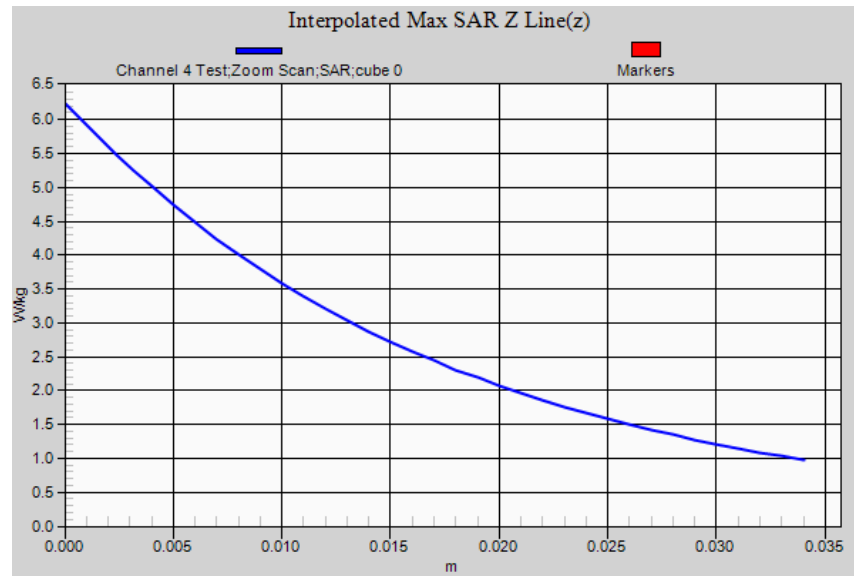
Face Frontal/Channel 4 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 68.309 V/m; **Power Drift = -0.10 dB**

Averaged SAR: SAR(1g) = 4.800 W/kg; SAR(10g) = 3.600 W/kg

Maximum value of SAR (interpolated) = 6.230 W/kg



SAR Measurement Plot 4



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Face Frontal FCC 26-06-14.da52:0

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL**Configuration: Face Frontal**

Communication System: 0 - CW (0); Communication System Band: Simoco 450 MHz; Frequency: 511.9 MHz; Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=512$ MHz; $\sigma = 0.90$ S/m; $\epsilon_r = 43.8$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

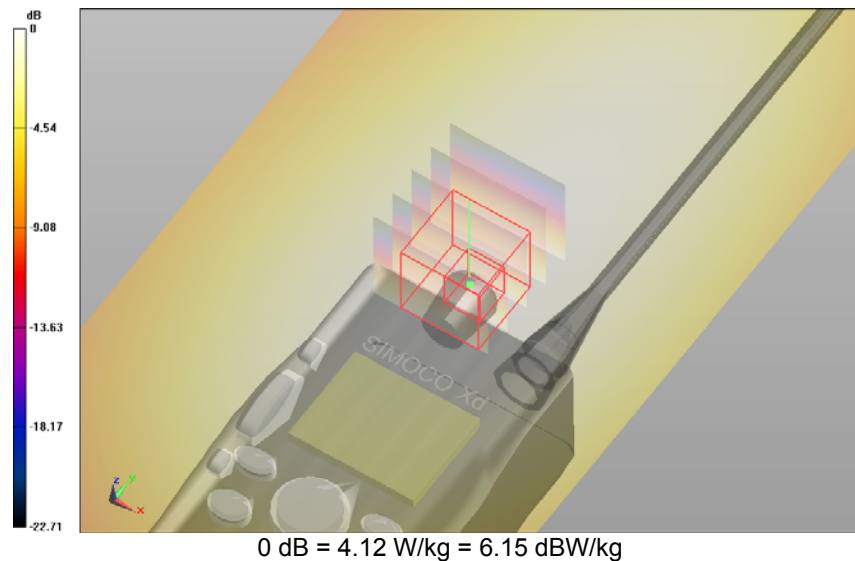
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Face Frontal/Channel 5 Test/Area Scan (221x81x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 4.120 W/kg

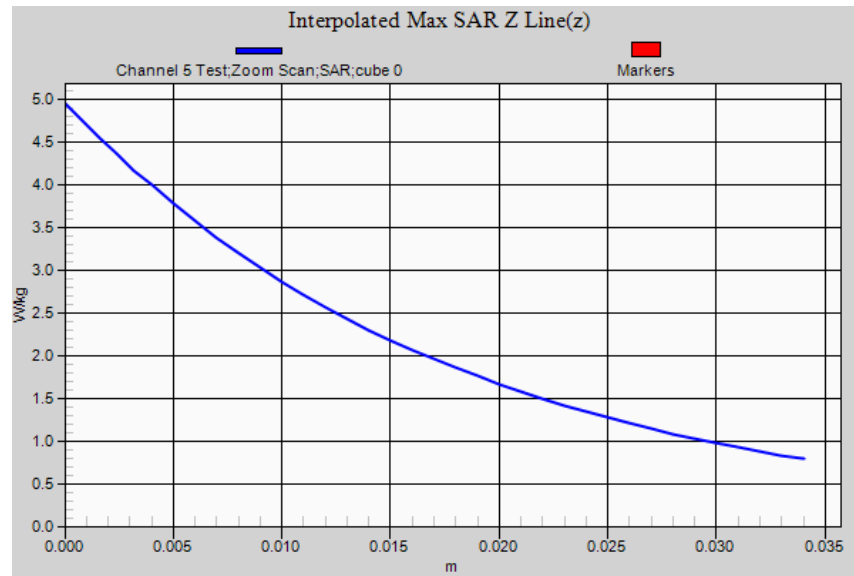
Face Frontal/Channel 5 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 60.958 V/m; **Power Drift = -0.20 dB**

Averaged SAR: SAR(1g) = 3.820 W/kg; SAR(10g) = 2.870 W/kg

Maximum value of SAR (interpolated) = 4.950 W/kg



SAR Measurement Plot 5



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Face Frontal FCC 26-06-14.da52:1

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL**Configuration: Face Frontal Holster**

Communication System: 0 - CW (0); Communication System Band: Simoco 450 MHz; Frequency: 458.0 MHz; Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=458$ MHz; $\sigma = 0.86$ S/m; $\epsilon_r = 44.8$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

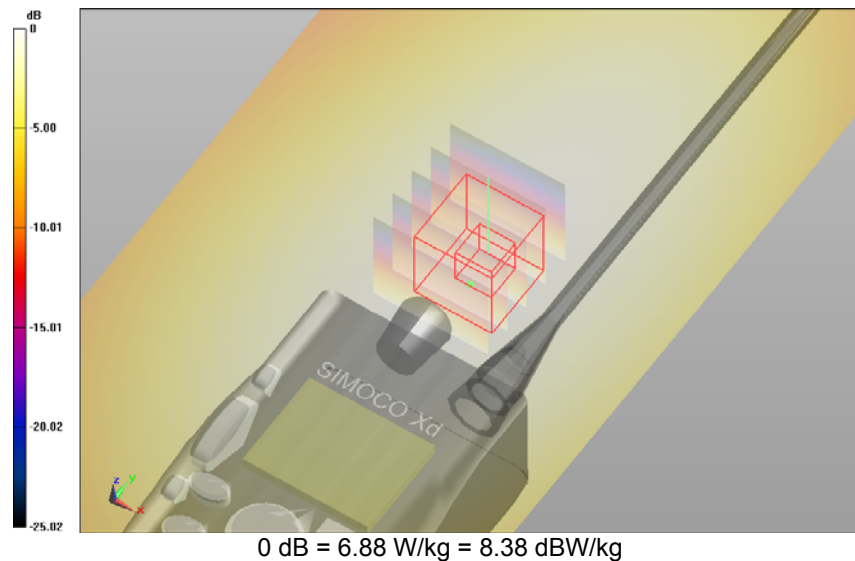
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Face Frontal Holster/Channel 2 Test/Area Scan (221x81x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm;
 Maximum value of SAR (interpolated) = 6.880 W/kg

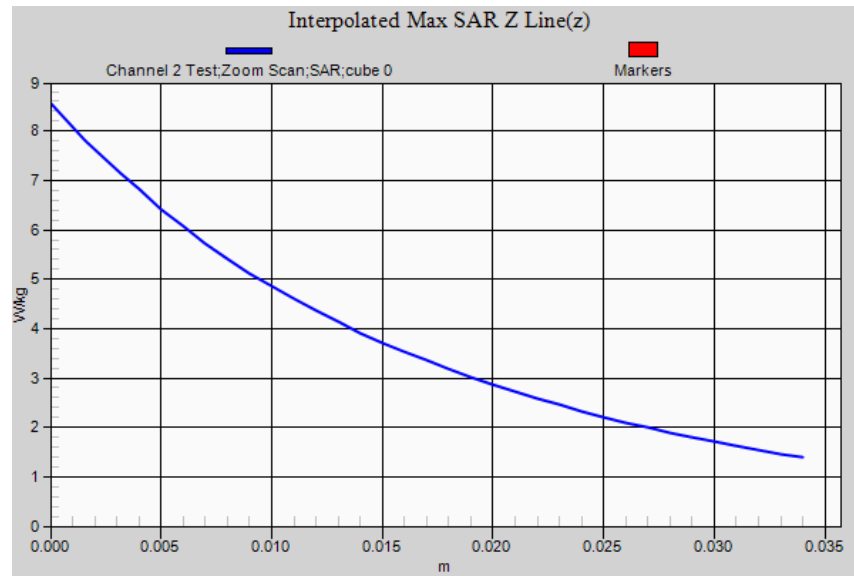
Face Frontal Holster/Channel 2 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 79.624 V/m; **Power Drift = -0.12 dB**

Averaged SAR: SAR(1g) = 6.470 W/kg; SAR(10g) = 4.840 W/kg

Maximum value of SAR (interpolated) = 8.550 W/kg



SAR Measurement Plot 6



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Face Frontal FCC 26-06-14.da52:2

DUT Name: Dipole 450 MHz, Type: D450V3, Serial: 1074**Configuration: System Check**

Communication System: 0 - CW 450 MHz; Communication System Band: **450 MHz**; Frequency: 450.0 MHz; Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=450$ MHz; $\sigma = 0.85$ S/m; $\epsilon_r = 45.0$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

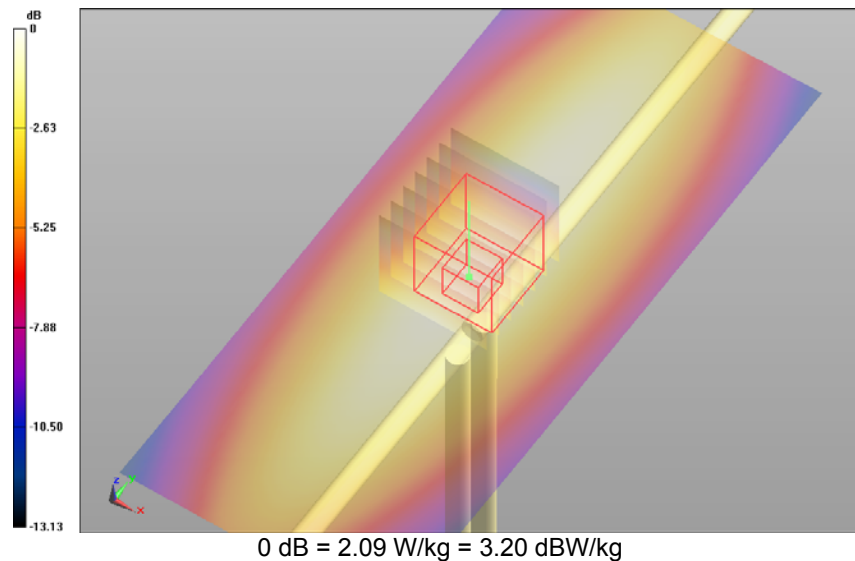
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

System Check/Channel 1Test/Area Scan (51x121x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm;
 Maximum value of SAR (interpolated) = 2.090 W/kg

System Check/Channel 1Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.0 mm, dy=1.0 mm, dz=1.0 mm; Reference Value = 52.725 V/m; **Power Drift = -0.17 dB**

Averaged SAR: SAR(1g) = 1.960 W/kg; SAR(10g) = 1.250 W/kg

Maximum value of SAR (interpolated) = 3.210 W/kg

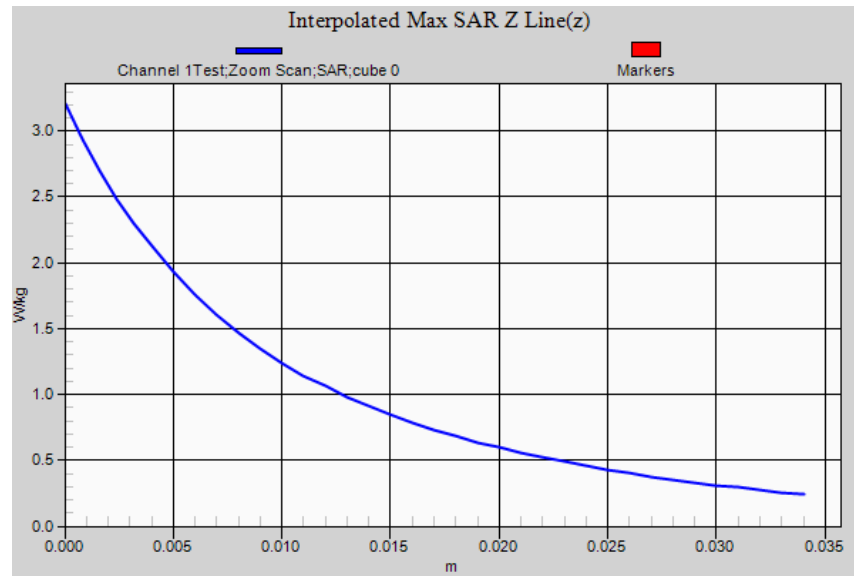


SAR Measurement Plot 7



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:0

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL**Configuration: Touch Left**

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 476.0 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00
 Medium Parameters used: $f=476$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 42.8$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Left Section

DASY Configuration:

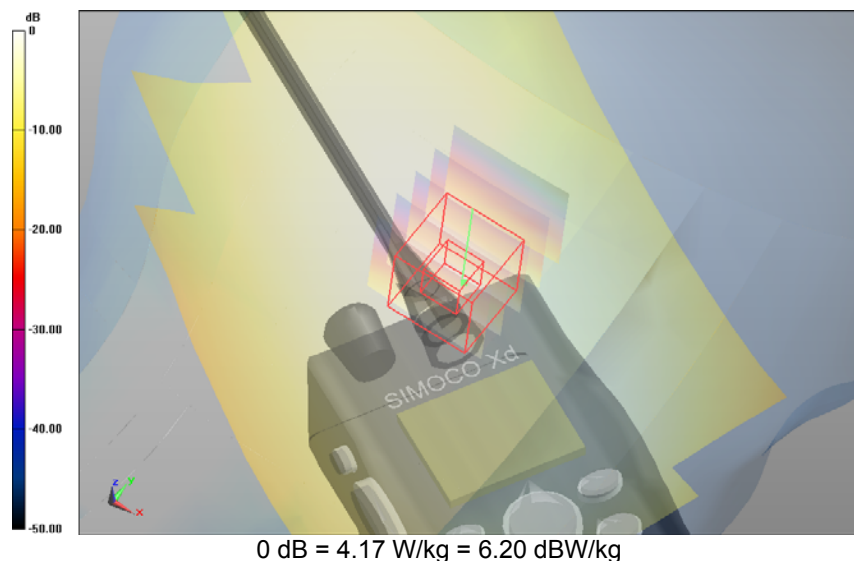
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: SAM 12; Type: SAM 12; Serial: 1060
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Touch Left/Channel 15 Test/Area Scan (281x81x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 4.170 W/kg

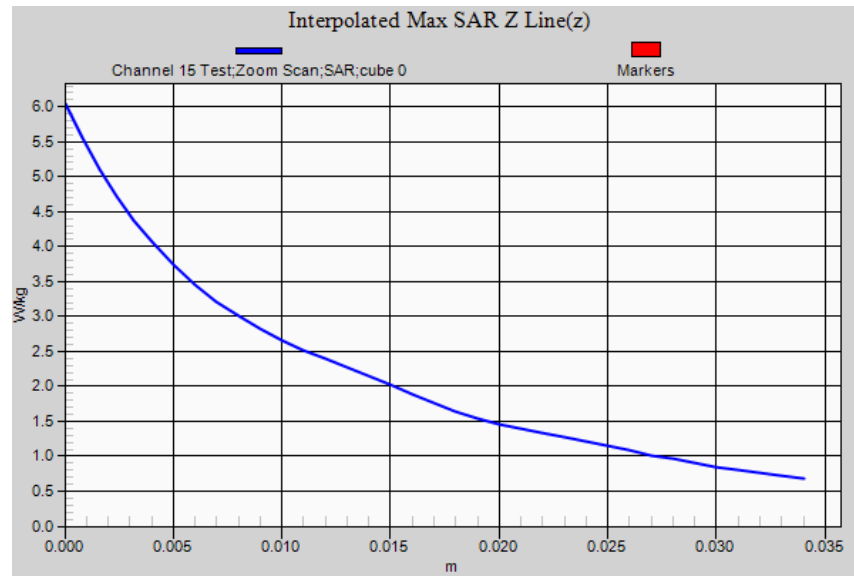
Touch Left/Channel 15 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 45.786 V/m; **Power Drift = 0.17 dB**

Averaged SAR: SAR(1g) = 3.900 W/kg; SAR(10g) = 2.750 W/kg

Maximum value of SAR (interpolated) = 6.040 W/kg



SAR Measurement Plot 8



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:1

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL**Configuration: Tilted Left**

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 440.1 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00
 Medium Parameters used: $f=440$ MHz; $\sigma = 0.83$ S/m; $\epsilon_r = 43.4$; $\rho = 1000.0$ g/cm³
 Phantom section: Left Section

DASY Configuration:

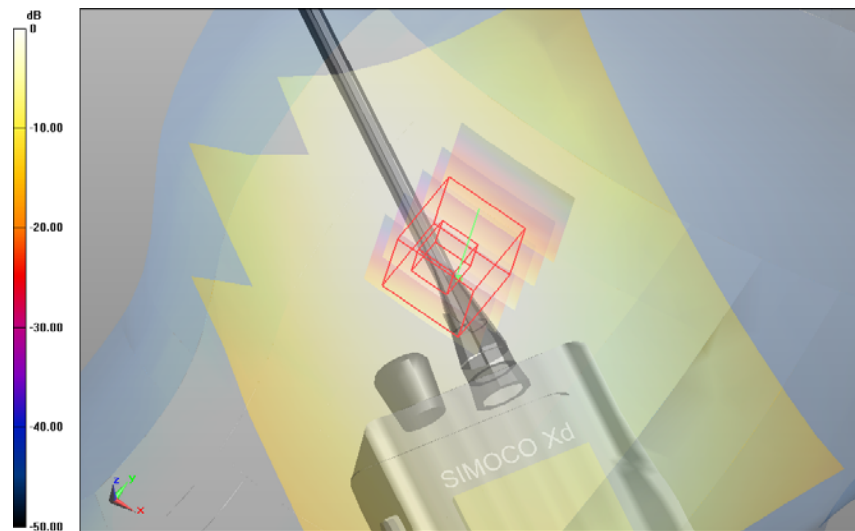
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: SAM 12; Type: SAM 12; Serial: 1060
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Tilted Left/Channel 13 Test/Area Scan (281x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 4.710 W/kg

Tilted Left/Channel 13 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 67.340 V/m; **Power Drift = 0.11 dB**

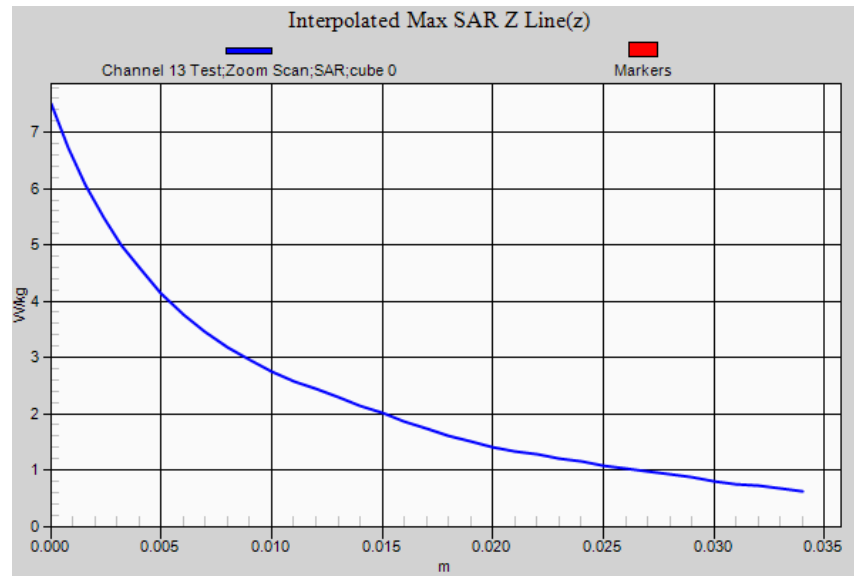
Averaged SAR: SAR(1g) = 4.460 W/kg; SAR(10g) = 2.970 W/kg

Maximum value of SAR (interpolated) = 7.500 W/kg



0 dB = 4.71 W/kg = 6.73 dBW/kg

SAR Measurement Plot 9



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:1

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL**Configuration: Tilted Left**

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 458.0 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00
 Medium Parameters used: $f=458$ MHz; $\sigma = 0.85$ S/m; $\epsilon_r = 43.0$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Left Section

DASY Configuration:

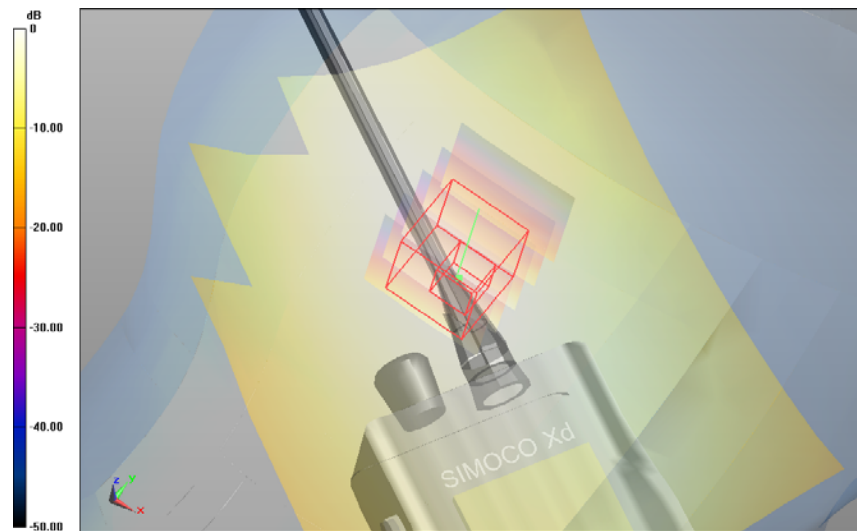
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: SAM 12; Type: SAM 12; Serial: 1060
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Tilted Left/Channel 14 Test/Area Scan (281x81x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 5.600 W/kg

Tilted Left/Channel 14 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 73.864 V/m; **Power Drift = -0.10 dB**

Averaged SAR: SAR(1g) = 5.130 W/kg; SAR(10g) = 3.460 W/kg

Maximum value of SAR (interpolated) = 8.050 W/kg



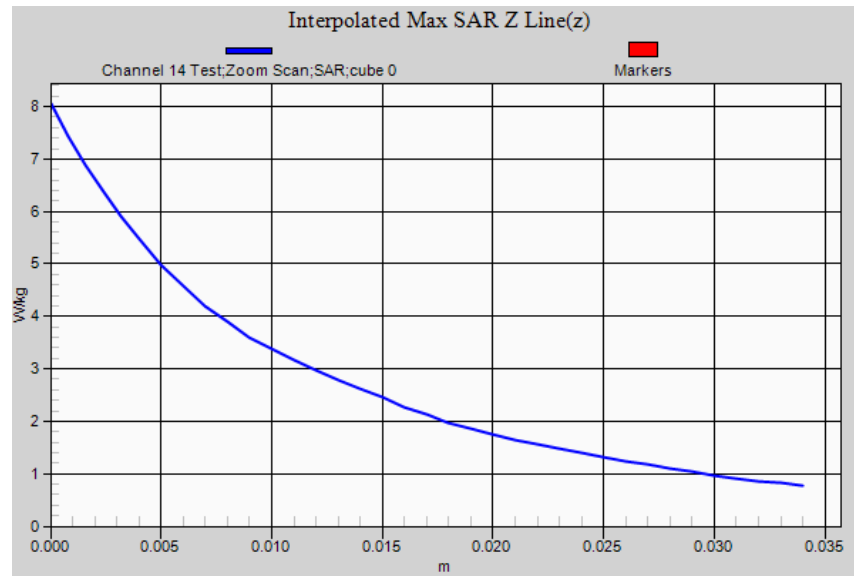
0 dB = 5.60 W/kg = 7.48 dBW/kg

SAR Measurement Plot 10



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:1

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL**Configuration: Tilted Left**

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 476.0 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00
 Medium Parameters used: $f=476$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 42.8$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Left Section

DASY Configuration:

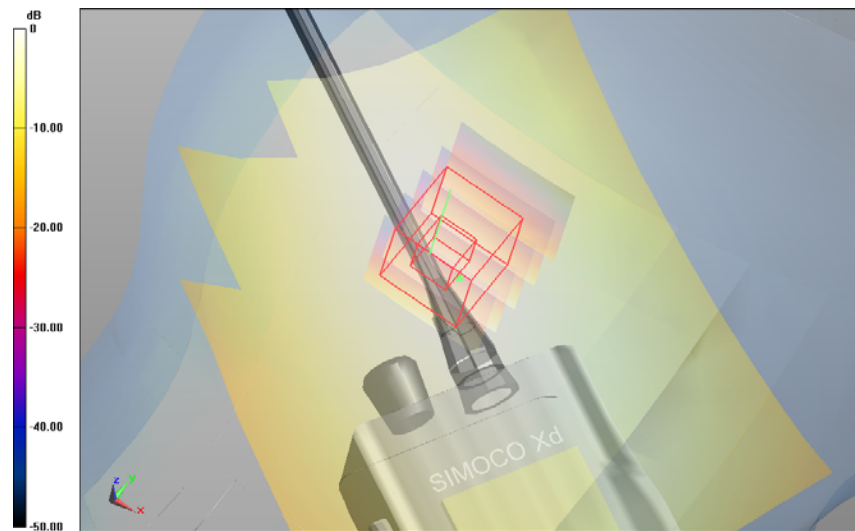
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: SAM 12; Type: SAM 12; Serial: 1060
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Tilted Left/Channel 15 Test/Area Scan (281x81x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 5.560 W/kg

Tilted Left/Channel 15 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 75.039 V/m; **Power Drift = -0.19 dB**

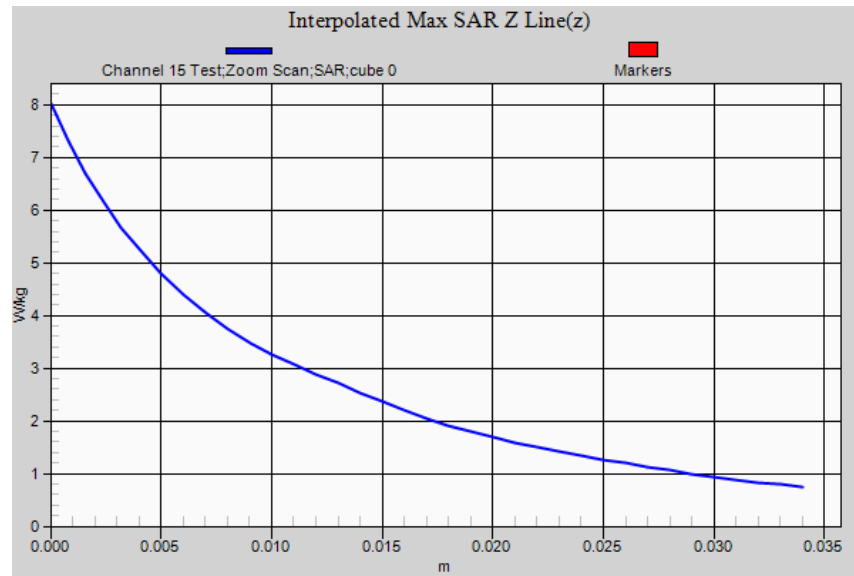
Averaged SAR: SAR(1g) = 5.080 W/kg; SAR(10g) = 3.400 W/kg

Maximum value of SAR (interpolated) = 8.020 W/kg



0 dB = 5.56 W/kg = 7.45 dBW/kg

SAR Measurement Plot 11



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:1

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL**Configuration: Tilted Left**

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 494.0 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00
 Medium Parameters used: $f=494$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 42.4$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Left Section

DASY Configuration:

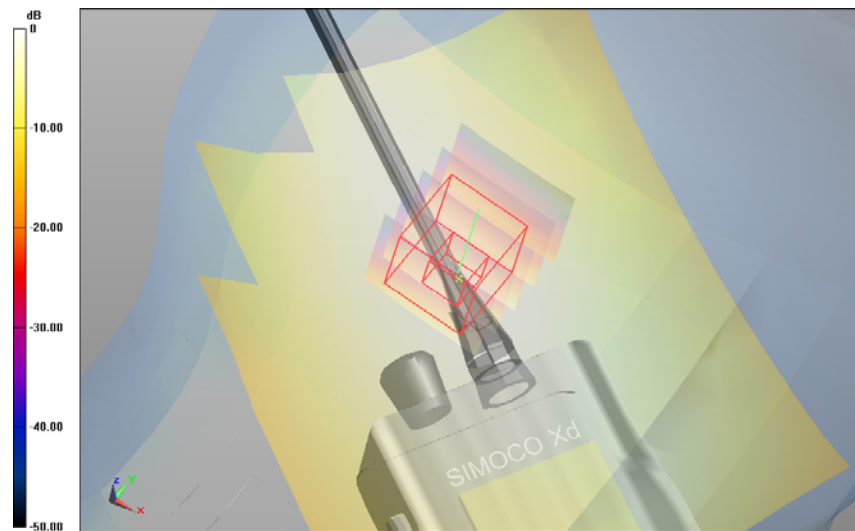
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: SAM 12; Type: SAM 12; Serial: 1060
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Tilted Left/Channel 16 Test/Area Scan (281x81x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 5.070 W/kg

Tilted Left/Channel 16 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 69.381 V/m; **Power Drift = 0.06 dB**

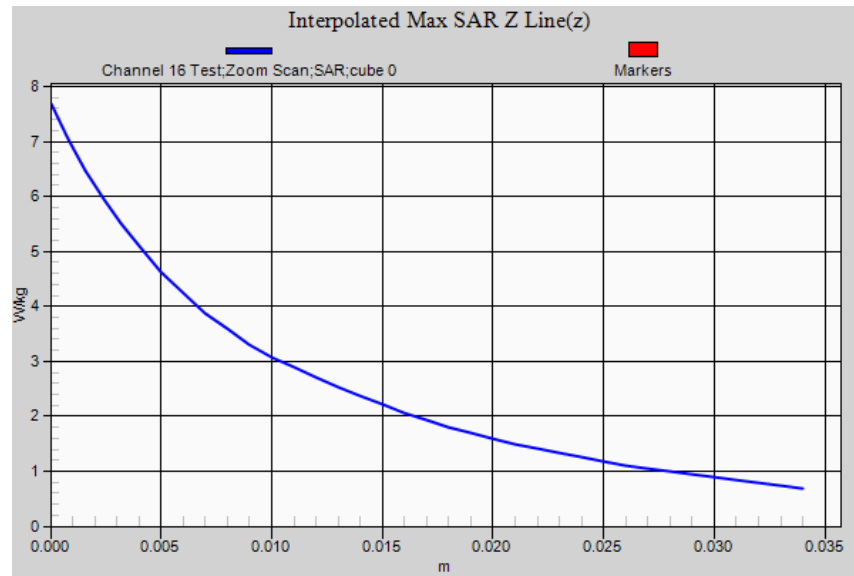
Averaged SAR: SAR(1g) = 4.780 W/kg; SAR(10g) = 3.130 W/kg

Maximum value of SAR (interpolated) = 7.680 W/kg



0 dB = 5.07 W/kg = 7.05 dBW/kg

SAR Measurement Plot 12



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:1

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL**Configuration: Tilted Left**

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 511.9 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00
 Medium Parameters used: $f=512$ MHz; $\sigma = 0.90$ S/m; $\epsilon_r = 42.1$; $\rho = 1000.0$ g/cm³
 Phantom section: Left Section

DASY Configuration:

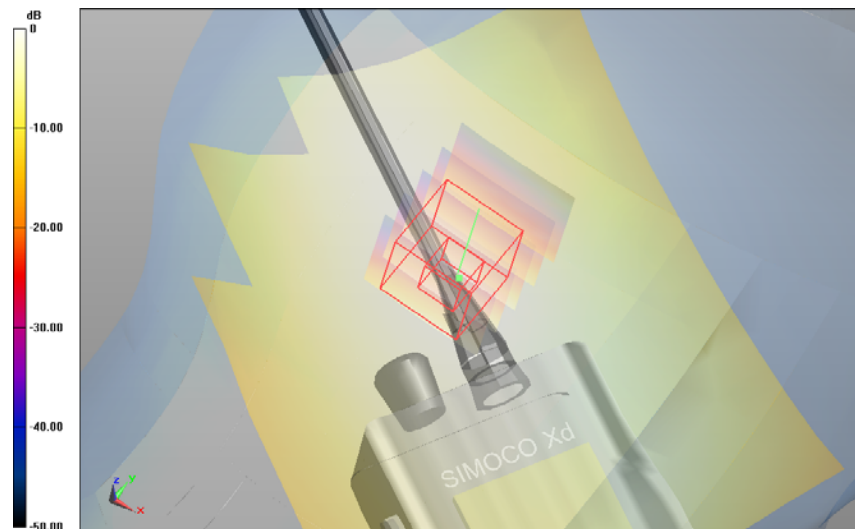
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: SAM 12; Type: SAM 12; Serial: 1060
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Tilted Left/Channel 17 Test/Area Scan (281x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 4.450 W/kg

Tilted Left/Channel 17 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 65.950 V/m; **Power Drift = -0.03 dB**

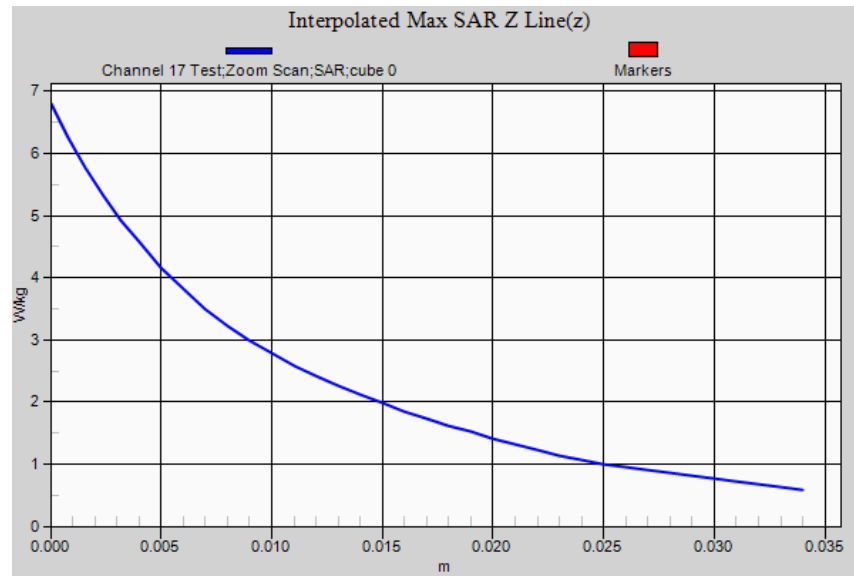
Averaged SAR: SAR(1g) = 4.260 W/kg; SAR(10g) = 2.800 W/kg

Maximum value of SAR (interpolated) = 6.800 W/kg



0 dB = 4.45 W/kg = 6.48 dBW/kg

SAR Measurement Plot 13



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:2

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL**Configuration: Tilted Left Holster**

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 458.0 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00
 Medium Parameters used: $f=458$ MHz; $\sigma = 0.85$ S/m; $\epsilon_r = 43.0$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Left Section

DASY Configuration:

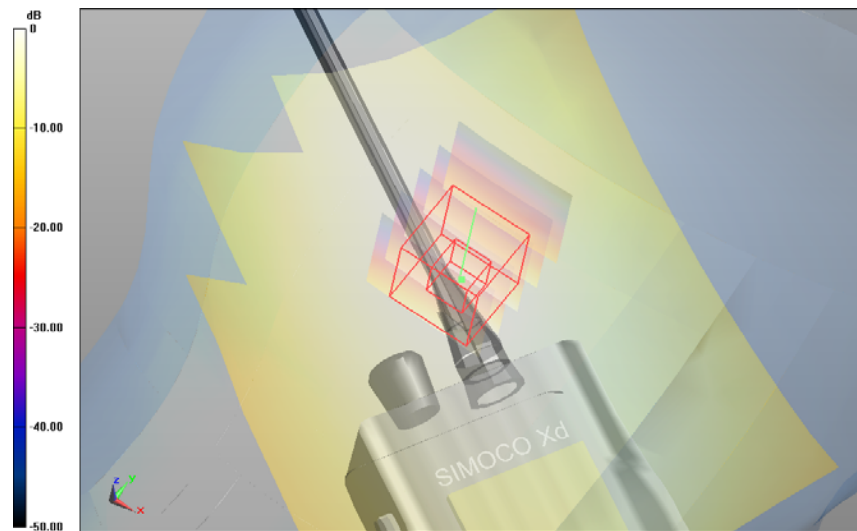
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: SAM 12; Type: SAM 12; Serial: 1060
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Tilted Left Holster/Channel 14 Test/Area Scan (281x81x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm;
 Maximum value of SAR (interpolated) = 4.460 W/kg

Tilted Left Holster/Channel 14 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 63.610 V/m; **Power Drift = -0.02 dB**

Averaged SAR: SAR(1g) = 4.100 W/kg; SAR(10g) = 2.850 W/kg

Maximum value of SAR (interpolated) = 6.030 W/kg



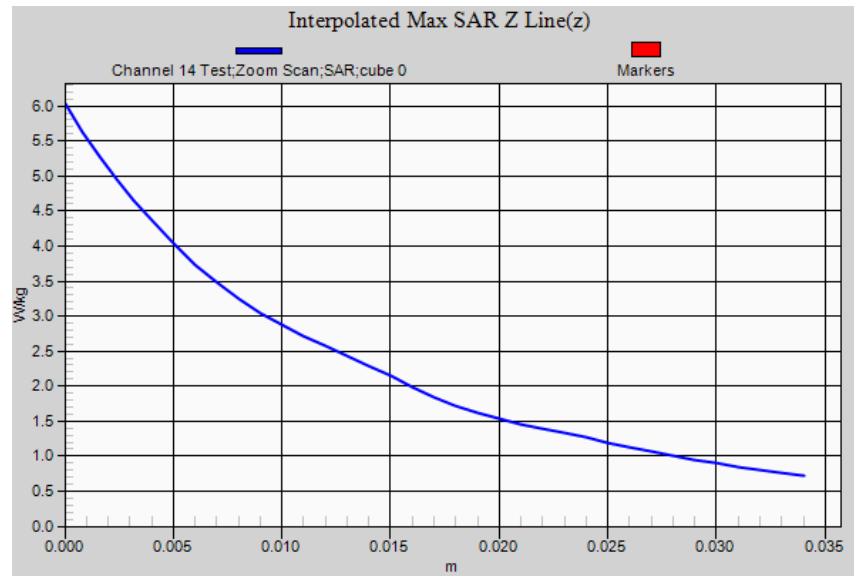
0 dB = 4.46 W/kg = 6.49 dBW/kg

SAR Measurement Plot 14



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:3

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL**Configuration: Tilted Left Variability**

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 458.0 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00
 Medium Parameters used: $f=458$ MHz; $\sigma = 0.85$ S/m; $\epsilon_r = 43.0$; $\rho = 1000.0$ g/cm³
 Phantom section: Left Section

DASY Configuration:

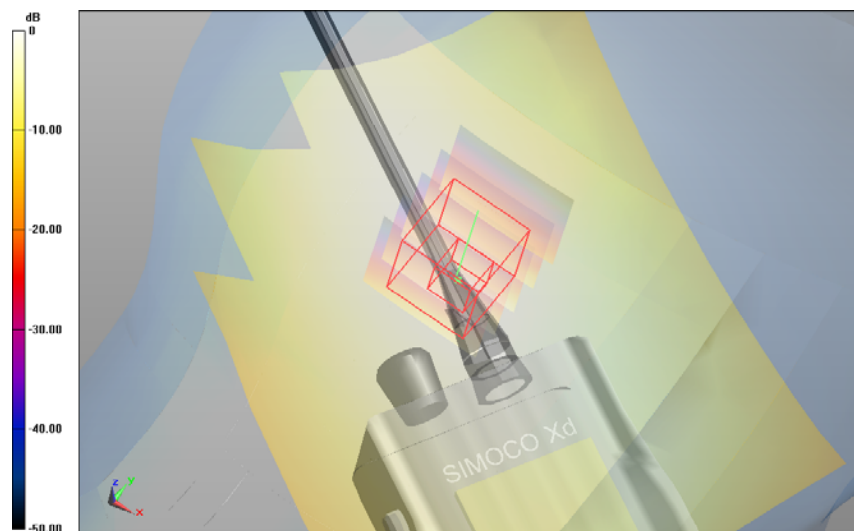
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: SAM 12; Type: SAM 12; Serial: 1060
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Tilted Left Variability/Channel 14 Test/Area Scan (281x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm;
 Maximum value of SAR (interpolated) = 5.510 W/kg

Tilted Left Variability/Channel 14 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 70.698 V/m; **Power Drift = 0.07 dB**

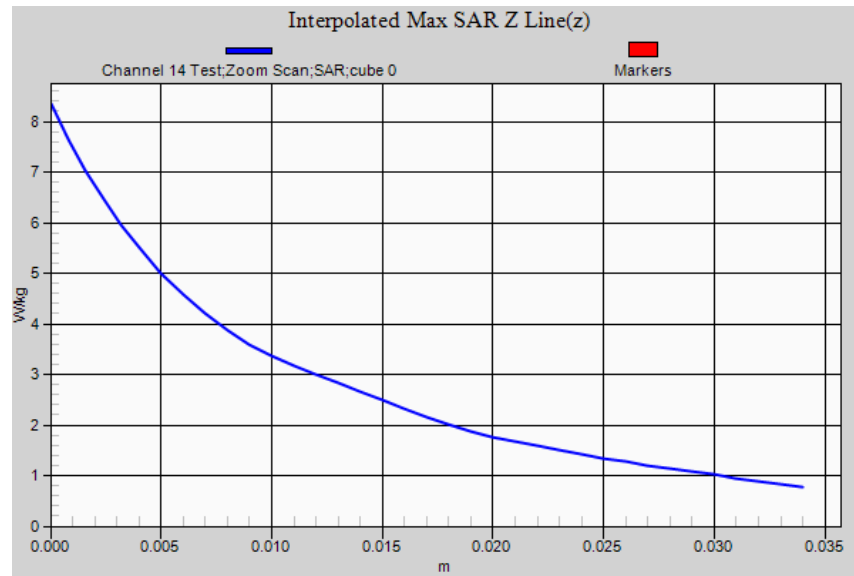
Averaged SAR: SAR(1g) = 5.180 W/kg; SAR(10g) = 3.460 W/kg

Maximum value of SAR (interpolated) = 8.340 W/kg



0 dB = 5.51 W/kg = 7.41 dBW/kg

SAR Measurement Plot 15



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:4

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL**Configuration: Touch Right**

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 476.0 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00
 Medium Parameters used: $f=476$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 42.8$; $\rho = 1000.0$ g/cm³
 Phantom section: Right Section

DASY Configuration:

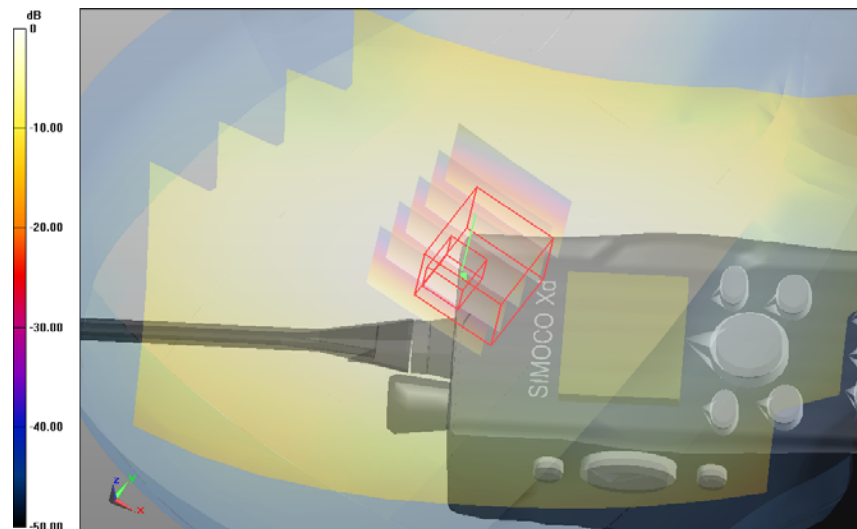
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: SAM 12; Type: SAM 12; Serial: 1060
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Touch Right/Channel 15 Test/Area Scan (281x81x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm;
 Maximum value of SAR (interpolated) = 3.970 W/kg

Touch Right/Channel 15 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 45.259 V/m; **Power Drift = 0.04 dB**

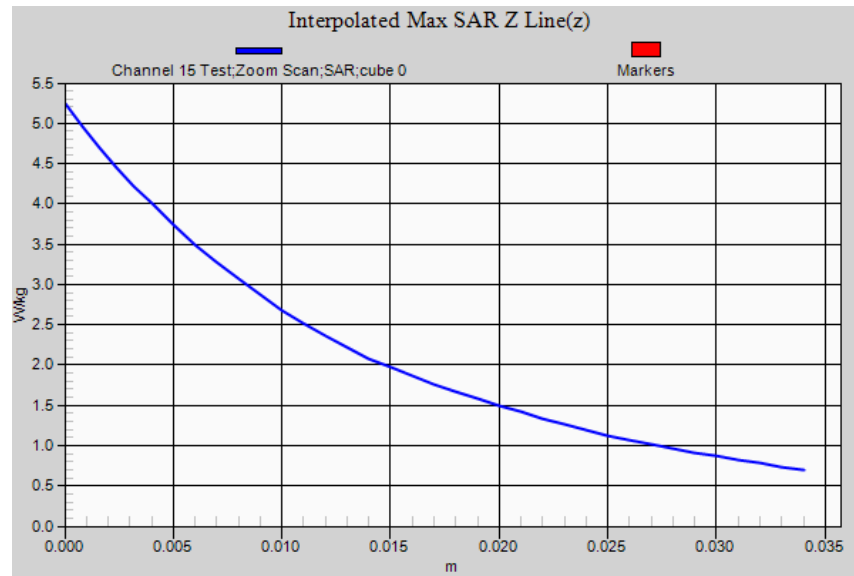
Averaged SAR: SAR(1g) = 3.770 W/kg; SAR(10g) = 2.690 W/kg

Maximum value of SAR (interpolated) = 5.240 W/kg



0 dB = 3.97 W/kg = 5.99 dBW/kg

SAR Measurement Plot 16



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:5

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL**Configuration: Tilted Right**

Communication System: 0 - DMR (ETSI TS 102 361-1) (0); Communication System Band: Simoco 450 MHz; Frequency: 476.0 MHz, Communication System PAR: 3.01 dB; PMF: 1.41; Duty Cycle: 1:2.00
 Medium Parameters used: $f=476$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 42.8$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Right Section

DASY Configuration:

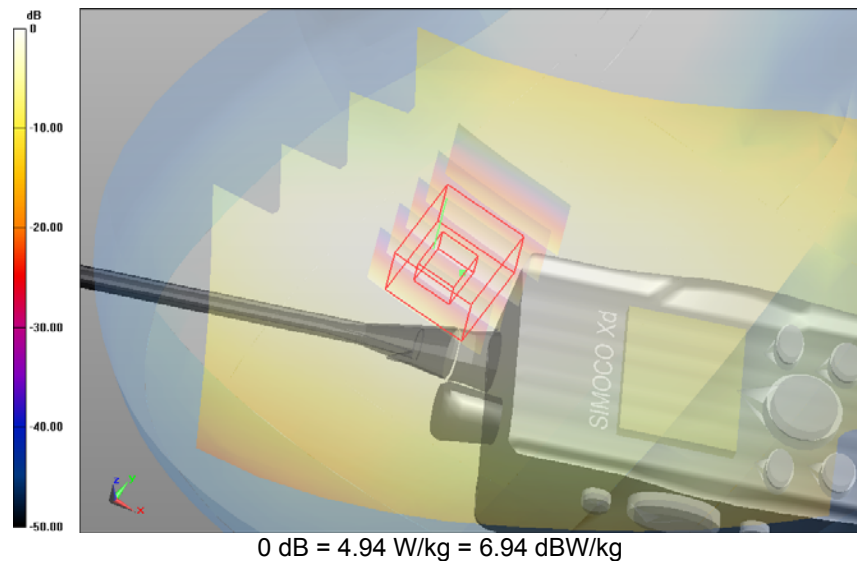
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: SAM 12; Type: SAM 12; Serial: 1060
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Tilted Right/Channel 15 Test/Area Scan (281x81x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm; Maximum value of SAR (interpolated) = 4.940 W/kg

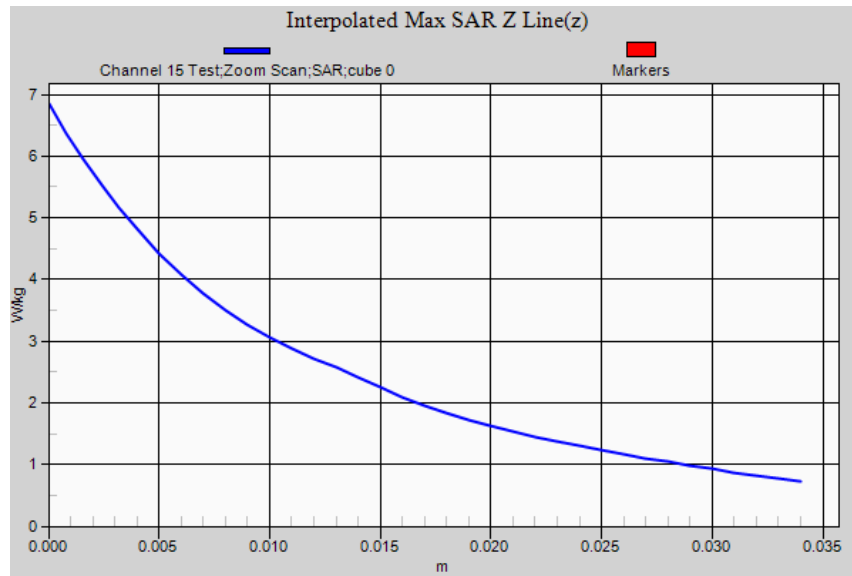
Tilted Right/Channel 15 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: $dx=1.6$ mm, $dy=1.6$ mm, $dz=1.0$ mm; Reference Value = 64.197 V/m; **Power Drift = 0.03 dB**

Averaged SAR: SAR(1g) = 4.520 W/kg; SAR(10g) = 3.100 W/kg

Maximum value of SAR (interpolated) = 6.840 W/kg



SAR Measurement Plot 17



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Head FCC 27-06-14.da52:7

DUT Name: Dipole 450 MHz, Type: D450V3, Serial: 1074**Configuration: System Check**

Communication System: 0 - CW 450 MHz; Communication System Band: **450 MHz**; Frequency: 450.0 MHz; Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=450$ MHz; $\sigma = 0.84$ S/m; $\epsilon_r = 43.2$; $\rho = 1000.0\text{g/cm}^3$
 Phantom section: Flat Section

DASY Configuration:

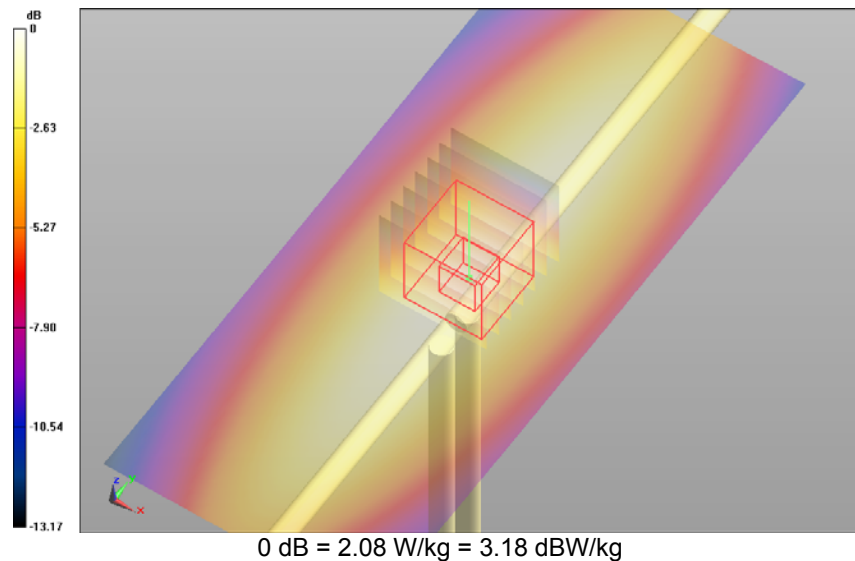
Probe: ET3DV6 - SN1380; ConvF: (7.31,7.31,7.31); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

System Check/Channel 1Test/Area Scan (51x121x1): Interpolated grid: $dx=1.5$ mm, $dy=1.5$ mm;
 Maximum value of SAR (interpolated) = 2.080 W/kg

System Check/Channel 1Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: $dx=1.0$ mm, $dy=1.0$ mm, $dz=1.0$ mm; Reference Value = 51.430 V/m; **Power Drift = 0.04 dB**

Averaged SAR: SAR(1g) = 2.000 W/kg; SAR(10g) = 1.280 W/kg

Maximum value of SAR (interpolated) = 3.250 W/kg

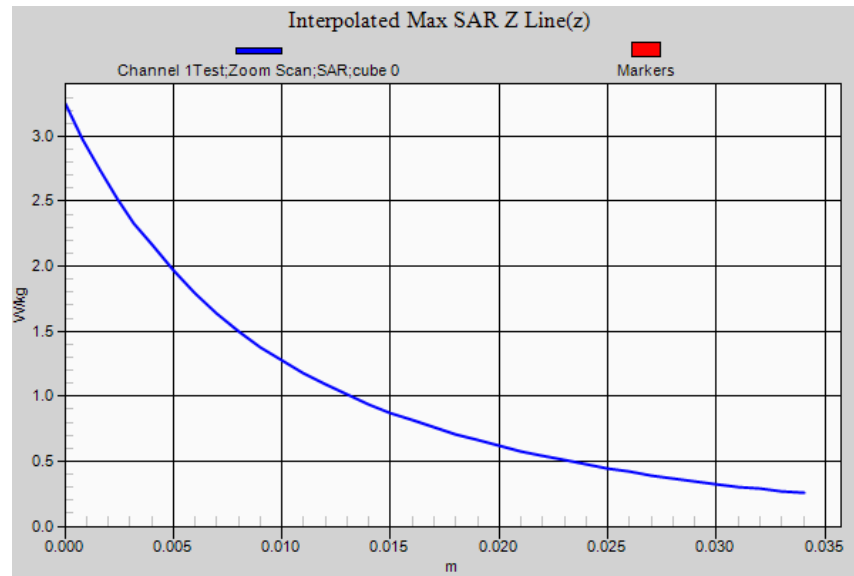


SAR Measurement Plot 18



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Test Lab: EMCTech

Test File: M140624 PTT 450 MHz Body Worn FCC 01-07-14.da52:0

DUT Name: Simoco PTT transmitter, Type: SDP660 UW, Serial: 56KUW1415 05SL**Configuration: Belt Clip (14mm Spacing)**

Communication System: 0 - CW (0); Communication System Band: Simoco 450 MHz; Frequency: 476.0 MHz; Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=476$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 54.7$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

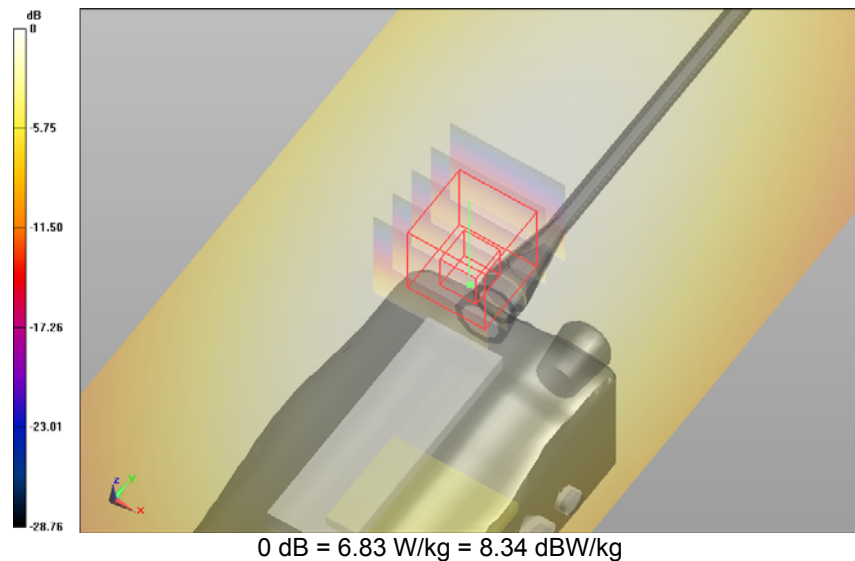
Probe: ET3DV6 - SN1380; ConvF: (7.49,7.49,7.49); Calibrated: 13/12/2013;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 10/12/2013
 Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1101
 DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Belt Clip (14mm Spacing)/Channel 3 Test/Area Scan (221x81x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 6.830 W/kg

Belt Clip (14mm Spacing)/Channel 3 Test/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 73.223 V/m; **Power Drift = -0.12 dB**

Averaged SAR: SAR(1g) = 6.410 W/kg; SAR(10g) = 4.680 W/kg

Maximum value of SAR (interpolated) = 9.000 W/kg

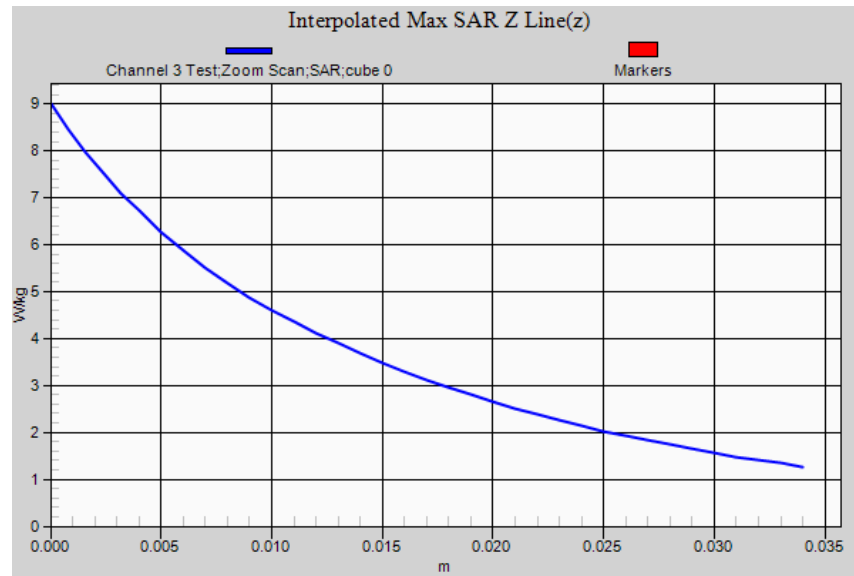


SAR Measurement Plot 19



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