ANNEX A GRAPH RESULTS

GSM850 Head

Date: 8/14/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 835 MHz; σ = 0.941 S/m; ϵ r = 42.67; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: GSM 850 GPRS12 (0) Frequency: 836.6 MHz Duty Cycle: 1:1.99986

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

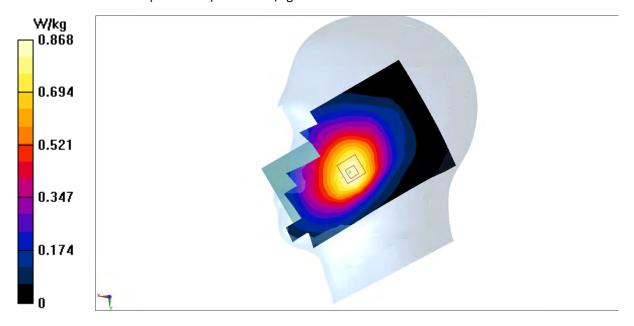
Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.868 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.97 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.947 W/kg

SAR(1 g) = 0.738 W/kg; SAR(10 g) = 0.522 W/kgMaximum value of SAR (measured) = 0.854 W/kg



GSM850 Body 10mm

Date: 8/14/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 835 MHz; σ = 0.941 S/m; ϵ r = 42.67; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: GSM 850 GPRS12 (0) Frequency: 836.6 MHz Duty Cycle: 1:1.99986

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

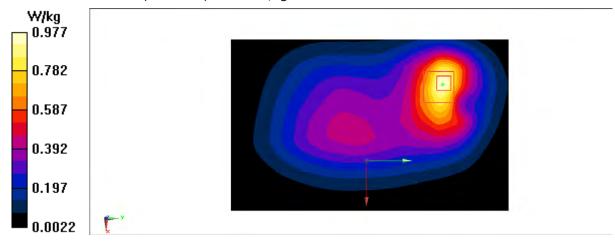
Maximum value of SAR (interpolated) = 0.977 W/kg

Zoom Scan (5x5x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.40 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.695 W/kg; SAR(10 g) = 0.432 W/kgMaximum value of SAR (measured) = 0.971 W/kg



GSM1900 Head

Date: 8/19/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 1880 MHz; σ = 1.44 S/m; ϵ r = 40.81; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: GSM 1900 GPRS12 (0) Frequency: 1880 MHz Duty Cycle: 1:1.99986

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95);

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

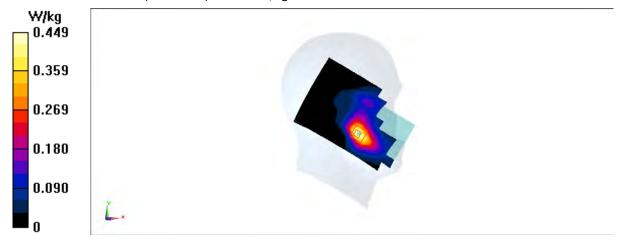
Maximum value of SAR (interpolated) = 0.449 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.155 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.483 W/kg

SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.204 W/kgMaximum value of SAR (measured) = 0.423 W/kg



GSM1900 Body 10mm

Date: 8/19/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 1910 MHz; σ = 1.458 S/m; ϵ r = 40.75; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: GSM1900 4TX (0) Frequency: 1909.8 MHz Duty Cycle: 1:1.99986

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95);

Area Scan (71x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

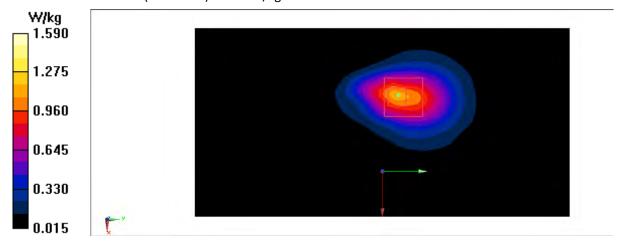
Maximum value of SAR (interpolated) = 1.12 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.24 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.566 W/kgMaximum value of SAR (measured) = 1.59 W/kg



WCDMA850 Head

Date: 8/14/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 835 MHz; σ = 0.941 S/m; ϵ r = 42.67; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: WCDMA850 (B5) (0) Frequency: 836.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89);

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.228 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.858 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.254 W/kg

SAR(1 g) = 0.185 W/kg; SAR(10 g) = 0.139 W/kgMaximum value of SAR (measured) = 0.223 W/kg



WCDMA850 Body 10mm

Date: 8/14/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 835 MHz; σ = 0.941 S/m; ϵ r = 42.67; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: WCDMA850 (B5) (0) Frequency: 836.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

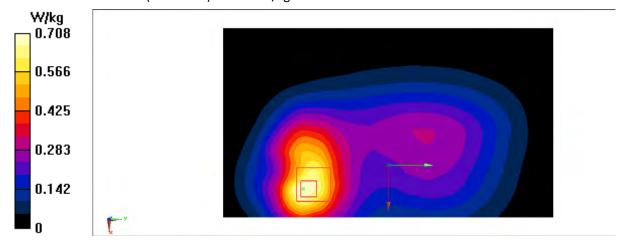
Maximum value of SAR (interpolated) = 0.708 W/kg

Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.33 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.871 W/kg

SAR(1 g) = 0.510 W/kg; SAR(10 g) = 0.312 W/kgMaximum value of SAR (measured) = 0.728 W/kg



WCDMA1700 Head

Date: 8/28/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 1755 MHz; σ = 1.372 S/m; ϵ r = 40.93; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: WCDMA1700 (B4) (0) Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(8.25, 8.25, 8.25);

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

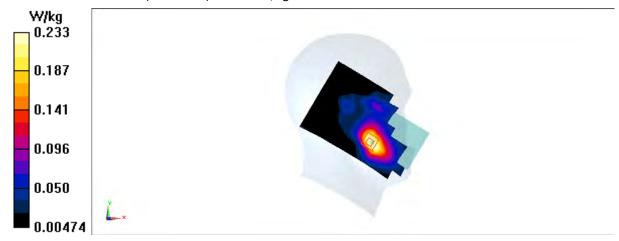
Maximum value of SAR (interpolated) = 0.245 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.344 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.269 W/kg

SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.116 W/kgMaximum value of SAR (measured) = 0.233 W/kg



WCDMA1700 Body 10mm

Date: 8/28/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used (interpolated): f = 1730 MHz; $\sigma = 1.359$ S/m; $\epsilon r = 40.99$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: WCDMA 1700 Band4 (0) Frequency: 1732.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(8.25, 8.25, 8.25);

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

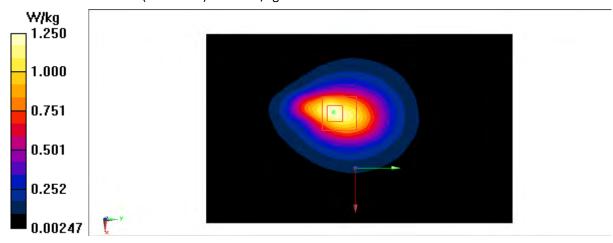
Maximum value of SAR (interpolated) = 1.25 W/kg

Zoom Scan (5x5x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.41 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.849 W/kg; SAR(10 g) = 0.504 W/kgMaximum value of SAR (measured) = 1.18 W/kg



WCDMA1900 Head

Date: 8/19/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 1880 MHz; σ = 1.44 S/m; ϵ r = 40.81; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: WCDMA1900 (B2) (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95);

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

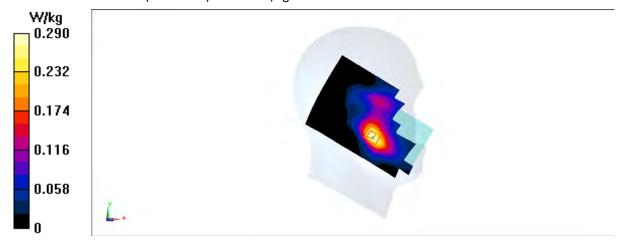
Maximum value of SAR (interpolated) = 0.290 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.170 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.322 W/kg

SAR(1 g) = 0.206 W/kg; SAR(10 g) = 0.127 W/kgMaximum value of SAR (measured) = 0.277 W/kg



WCDMA1900 Body 10mm

Date: 8/19/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used (interpolated): f = 1850 MHz; σ = 1.42 S/m; ϵ r = 40.82; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: WCDMA1900(B2) (0) Frequency: 1852.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95);

Area Scan (71x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

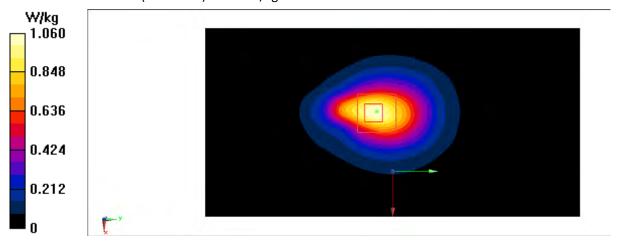
Maximum value of SAR (interpolated) = 1.06 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.74 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.934 W/kg; SAR(10 g) = 0.528 W/kgMaximum value of SAR (measured) = 1.39 W/kg



LTE Band2 Head

Date: 8/19/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 1880 MHz; σ = 1.44 S/m; ϵ r = 40.81; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, LTE Band2(20MB) (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

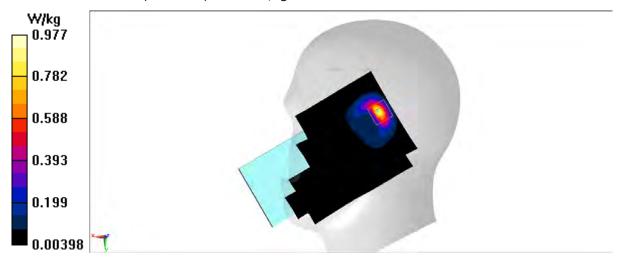
Maximum value of SAR (interpolated) = 0.892 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.33 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.255 W/kgMaximum value of SAR (measured) = 0.977 W/kg



LTE Band2 Body 10mm

Date: 8/19/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 1860 MHz; σ = 1.427 S/m; ϵ r = 40.81; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, LTE Band2(20MB) (0) Frequency: 1860 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95);

Area Scan (81x131x1): Interpolated grid: $dx=1.500 \ mm$, $dy=1.500 \ mm$

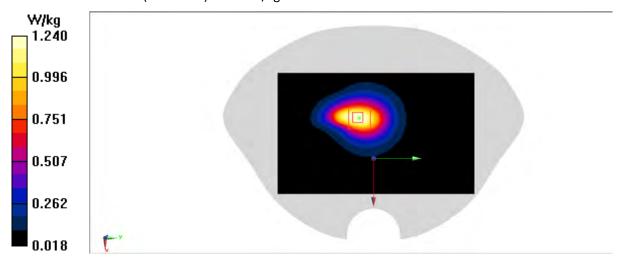
Maximum value of SAR (interpolated) = 1.31 W/kg

Zoom Scan (5x5x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.30 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.873 W/kg; SAR(10 g) = 0.510 W/kgMaximum value of SAR (measured) = 1.24 W/kg



LTE Band7 Head

Date: 8/22/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 2560 MHz; σ = 1.914 S/m; ϵ r = 39.82; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band7 (0) Frequency: 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.883 W/kg

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

Reference Value = 4.958 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 2.18 W/kg

SAR(1 g) = 0.881 W/kg; SAR(10 g) = 0.341 W/kgMaximum value of SAR (measured) = 1.49 W/kg



LTE Band7 Body 10mm

Date: 8/22/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 2560 MHz; σ = 1.914 S/m; ϵ r = 39.82; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band7 (0) Frequency: 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

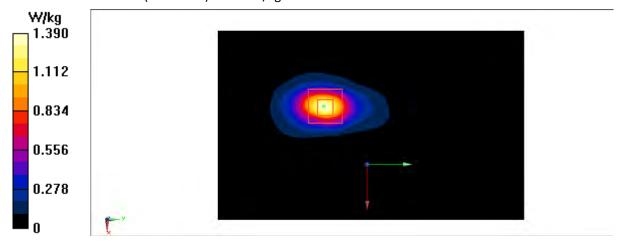
Maximum value of SAR (interpolated) = 1.39 W/kg

Zoom Scan (7x7x5)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.096 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 0.899 W/kg; SAR(10 g) = 0.406 W/kgMaximum value of SAR (measured) = 1.45 W/kg



LTE Band12 Head

Date: 8/3/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used (interpolated): f = 705 MHz; σ = 0.893 S/m; ϵ r = 43.02; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band12 (0) Frequency: 704 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(9.09, 9.18, 9.51);

Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

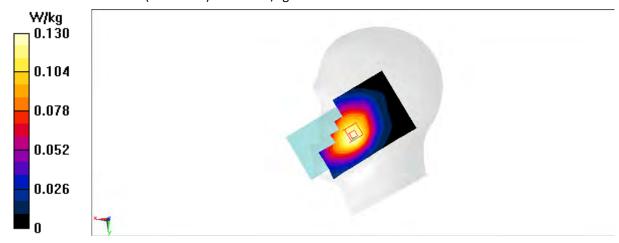
Maximum value of SAR (interpolated) = 0.130 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.597 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.133 W/kg

SAR(1 g) = 0.113 W/kg; SAR(10 g) = 0.091 W/kgMaximum value of SAR (measured) = 0.126 W/kg



LTE Band12 Body 10mm

Date: 8/3/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used (interpolated): f = 705 MHz; σ = 0.893 S/m; ϵ r = 43.02; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band12 (0) Frequency: 704 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(9.09, 9.18, 9.51);

Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

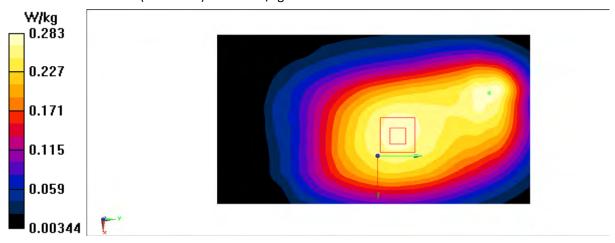
Maximum value of SAR (interpolated) = 0.277 W/kg

Zoom Scan (9x12x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.67 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.337 W/kg

SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.171 W/kgMaximum value of SAR (measured) = 0.283 W/kg



LTE Band25 Head

Date: 8/19/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 1905 MHz; σ = 1.455 S/m; ϵ r = 40.76; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band25 (0) Frequency: 1905 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

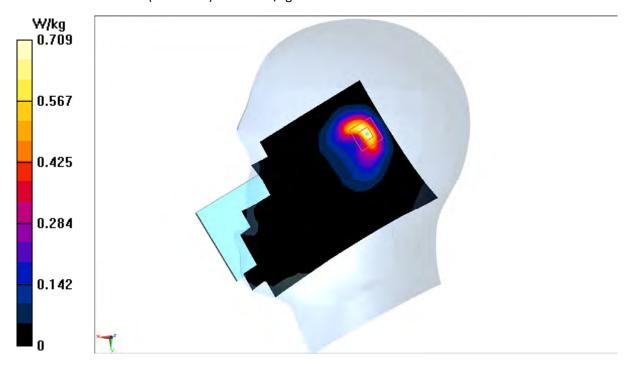
Maximum value of SAR (interpolated) = 0.709 W/kg

Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.434 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.580 W/kg; SAR(10 g) = 0.266 W/kgMaximum value of SAR (measured) = 0.982 W/kg



LTE Band25 Body 10mm

Date: 8/19/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 1905 MHz; σ = 1.455 S/m; ϵ r = 40.76; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band25 (0) Frequency: 1905 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

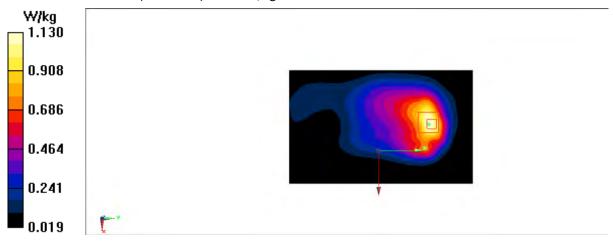
Maximum value of SAR (interpolated) = 1.16 W/kg

Zoom Scan (5x5x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.16 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.797 W/kg; SAR(10 g) = 0.480 W/kgMaximum value of SAR (measured) = 1.13 W/kg



LTE Band26 Head

Date: 8/4/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used (interpolated): f = 830 MHz; $\sigma = 0.939$ S/m; $\epsilon r = 42.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band26 (0) Frequency: 831.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(8.69, 9.48, 9.34);

Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.184 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.761 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.188 W/kg

SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.124 W/kgMaximum value of SAR (measured) = 0.177 W/kg



LTE Band26 Body 10mm

Date: 8/4/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used (interpolated): f = 830 MHz; $\sigma = 0.939$ S/m; $\epsilon r = 42.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band26 (0) Frequency: 831.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(8.69, 9.48, 9.34);

Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

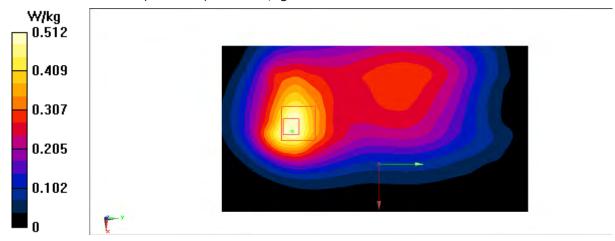
Maximum value of SAR (interpolated) = 0.512 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.80 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.649 W/kg

SAR(1 g) = 0.359 W/kg; SAR(10 g) = 0.222 W/kgMaximum value of SAR (measured) = 0.505 W/kg



LTE Band41 PC2 Head

Date: 8/28/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used (interpolated): f = 2635 MHz; $\sigma = 1.958$ S/m; $\epsilon r = 39.46$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band41 PC2 (0) Frequency: 2636.5 MHz Duty Cycle: 1:2.30994

Probe: EX3DV4 - SN7464 ConvF(7.34, 7.45, 7.58);

Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.61 W/kg

Zoom Scan (7x7x5)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.951 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.13 W/kg

SAR(1 g) = 0.925 W/kg; SAR(10 g) = 0.382 W/kgMaximum value of SAR (measured) = 1.40 W/kg



LTE Band41 PC2 Body 10mm

Date: 8/28/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used (interpolated): f = 2635 MHz; $\sigma = 1.958$ S/m; $\epsilon r = 39.46$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band41 PC2 (0) Frequency: 2636.5 MHz Duty Cycle: 1:2.30994

Probe: EX3DV4 - SN7464 ConvF(7.34, 7.45, 7.58);

Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

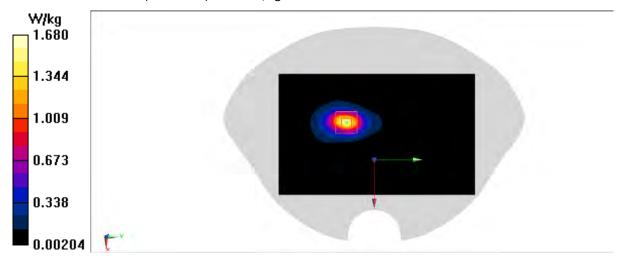
Maximum value of SAR (interpolated) = 1.57 W/kg

Zoom Scan (7x7x5)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.953 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.10 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.453 W/kgMaximum value of SAR (measured) = 1.68 W/kg



LTE Band41 PC3 Head

Date: 8/28/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used (interpolated): f = 2635 MHz; $\sigma = 1.958$ S/m; $\epsilon r = 39.46$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band41 (0) Frequency: 2636.5 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 - SN7464 ConvF(7.34, 7.45, 7.58);

Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

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

Reference Value = 3.058 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.28 W/kg

SAR(1 g) = 0.938 W/kg; SAR(10 g) = 0.377 W/kgMaximum value of SAR (measured) = 1.72 W/kg



LTE Band41 PC3 Body 10mm

Date: 8/28/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used (interpolated): f = 2635 MHz; $\sigma = 1.958$ S/m; $\epsilon r = 39.46$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band41 (0) Frequency: 2636.5 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 - SN7464 ConvF(7.34, 7.45, 7.58);

Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

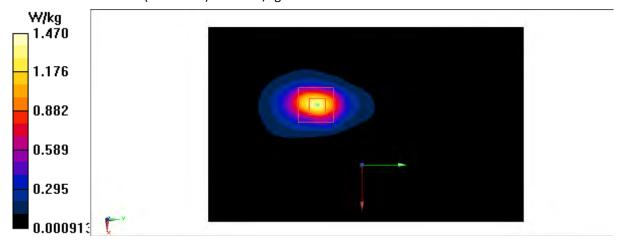
Maximum value of SAR (interpolated) = 1.37 W/kg

Zoom Scan (7x7x5)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.383 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.895 W/kg; SAR(10 g) = 0.399 W/kgMaximum value of SAR (measured) = 1.47 W/kg



LTE Band66 Head

Date: 8/28/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 1745 MHz; σ = 1.367 S/m; ϵ r = 40.94; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band66 (0) Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(8.25, 8.25, 8.25)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

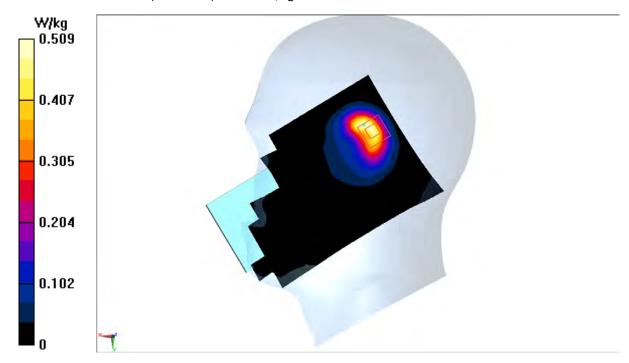
Maximum value of SAR (interpolated) = 0.509 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.42 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.891 W/kg

SAR(1 g) = 0.430 W/kg; SAR(10 g) = 0.200 W/kgMaximum value of SAR (measured) = 0.594 W/kg



LTE Band66 Body 10mm

Date: 8/28/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 1745 MHz; σ = 1.367 S/m; ϵ r = 40.94; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band66 (0) Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(8.25, 8.25, 8.25)

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

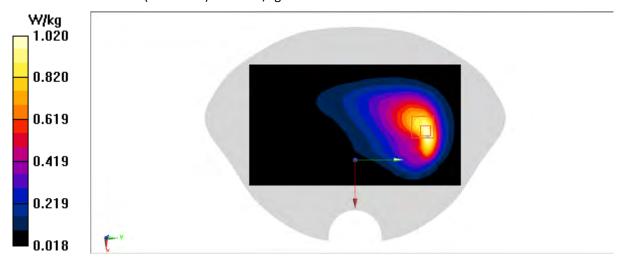
Maximum value of SAR (interpolated) = 1.04 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.865 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.717 W/kg; SAR(10 g) = 0.426 W/kgMaximum value of SAR (measured) = 1.02 W/kg



LTE Band71 Head

Date: 8/3/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 700 MHz; σ = 0.884 S/m; ϵ r = 43.04; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band71 (0) Frequency: 688 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(9.09, 9.18, 9.51);

Area Scan (61x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.168 W/kg

Zoom Scan (7x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.995 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.182 W/kg

SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.117 W/kgMaximum value of SAR (measured) = 0.168 W/kg



LTE Band71 Body 10mm

Date: 8/3/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 700 MHz; σ = 0.884 S/m; ϵ r = 43.04; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band71 (0) Frequency: 688 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(9.09, 9.18, 9.51);

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

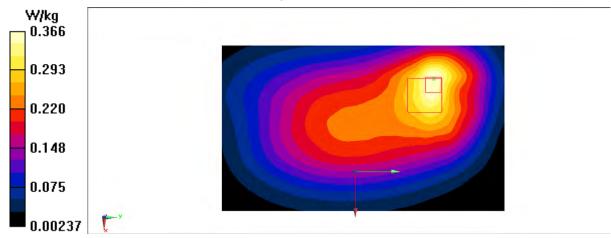
Maximum value of SAR (interpolated) = 0.366 W/kg

Zoom Scan (6x6x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.45 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.433 W/kg

SAR(1 g) = 0.274 W/kg; SAR(10 g) = 0.183 W/kgMaximum value of SAR (measured) = 0.370 W/kg



N2 Head

Date: 8/16/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 1880 MHz; σ = 1.431 S/m; ϵ r = 40.57; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G NR (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(7.64, 7.81, 7.99)

Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

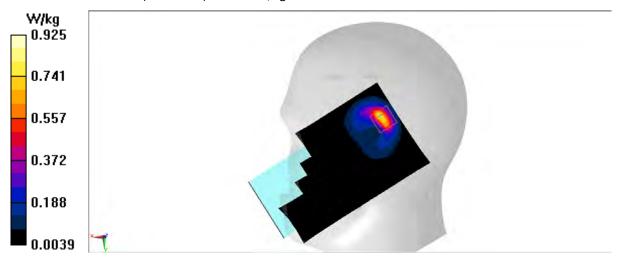
Maximum value of SAR (interpolated) = 0.760 W/kg

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

Reference Value = 11.94 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.548 W/kg; SAR(10 g) = 0.246 W/kgMaximum value of SAR (measured) = 0.925 W/kg



N2 Body 10mm

Date: 8/16/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 1850 MHz; σ = 1.411 S/m; ϵ r = 40.58; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G NR (0) Frequency: 1852.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(7.64, 7.81, 7.99)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

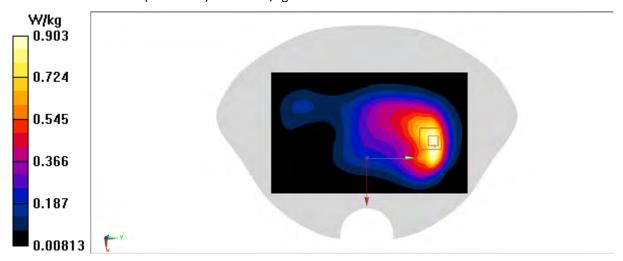
Maximum value of SAR (interpolated) = 0.965 W/kg

Zoom Scan (6x6x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.79 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.646 W/kg; SAR(10 g) = 0.387 W/kgMaximum value of SAR (measured) = 0.903 W/kg



N5 Head

Date: 8/14/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 835 MHz; σ = 0.941 S/m; ϵ r = 42.67; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N5 15kHz (0) Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

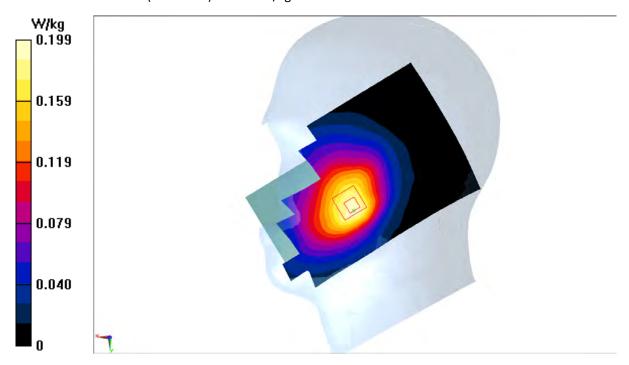
Maximum value of SAR (interpolated) = 0.199 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.070 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.213 W/kg

SAR(1 g) = 0.159 W/kg; SAR(10 g) = 0.121 W/kgMaximum value of SAR (measured) = 0.191 W/kg



N5 Body 10mm

Date: 8/14/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 845 MHz; σ = 0.944 S/m; ϵ r = 42.64; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N5 15kHz (0) Frequency: 846.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

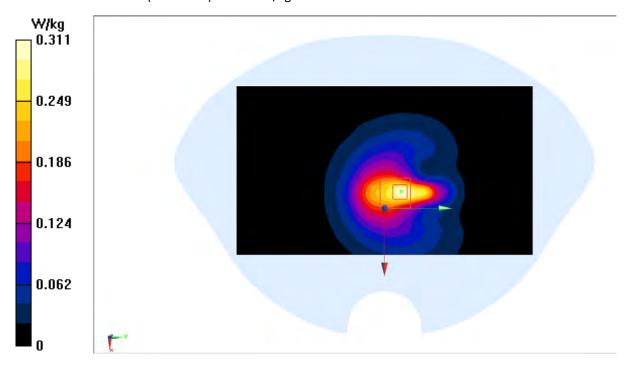
Maximum value of SAR (interpolated) = 0.311 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.98 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.424 W/kg

SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.121 W/kgMaximum value of SAR (measured) = 0.332 W/kg



N7 Head

Date: 8/22/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 2560 MHz; σ = 1.914 S/m; ϵ r = 39.82; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N7 15kHz (0) Frequency: 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

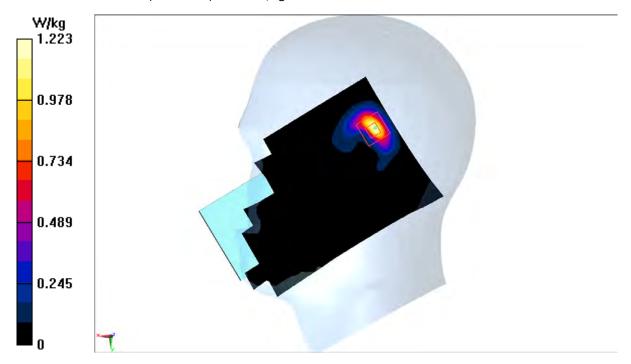
Maximum value of SAR (interpolated) = 1.22 W/kg

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

Reference Value = 1.971 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.31 W/kg

SAR(1 g) = 0.936 W/kg; SAR(10 g) = 0.366 W/kgMaximum value of SAR (measured) = 1.73 W/kg



N7 Body 10mm

Date: 8/22/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 2510 MHz; σ = 1.874 S/m; ϵ r = 39.9; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N7 15kHz (0) Frequency: 2510 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.43, 7.43, 7.43)

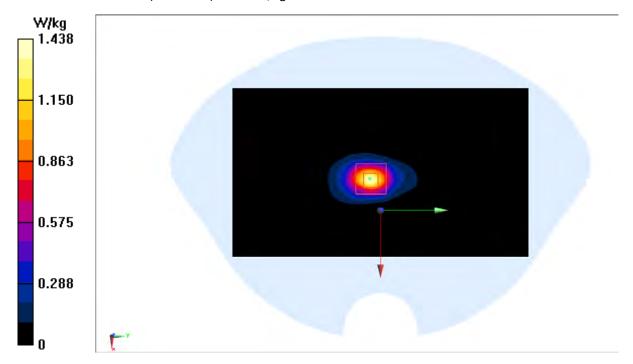
Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 1.44 W/kg

Zoom Scan (9x10x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.55 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 0.841 W/kg; SAR(10 g) = 0.363 W/kgMaximum value of SAR (measured) = 1.38 W/kg



N25 Head

Date: 8/16/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 1880 MHz; σ = 1.434 S/m; ϵ r = 40.56; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G NR (0) Frequency: 1882.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(7.64, 7.81, 7.99)

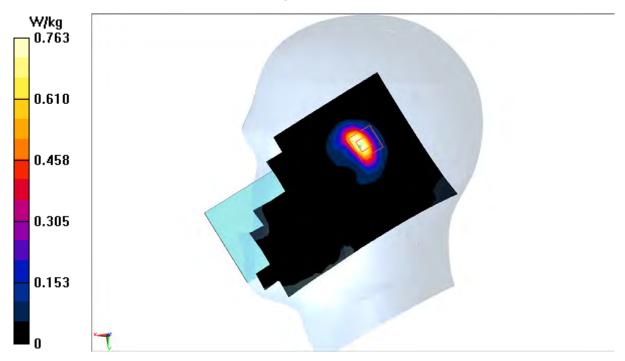
Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.763 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.52 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.200 W/kgMaximum value of SAR (measured) = 0.675 W/kg



N25 Body 10mm

Date: 8/16/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 1880 MHz; σ = 1.434 S/m; ϵ r = 40.56; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G NR (0) Frequency: 1882.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(7.64, 7.81, 7.99)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

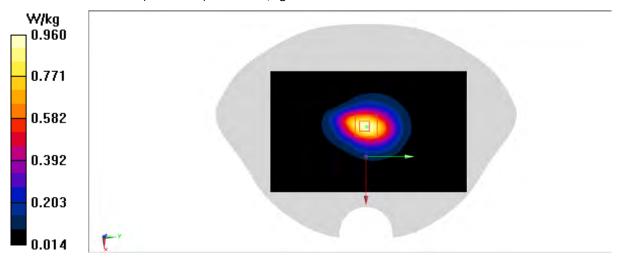
Maximum value of SAR (interpolated) = 0.958 W/kg

Zoom Scan (5x5x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.90 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.674 W/kg; SAR(10 g) = 0.391 W/kgMaximum value of SAR (measured) = 0.960 W/kg



N41 Head

Date: 8/23/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 2640 MHz; σ = 1.996 S/m; ϵ r = 40.14; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N41 30kHz (0) Frequency: 2640 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

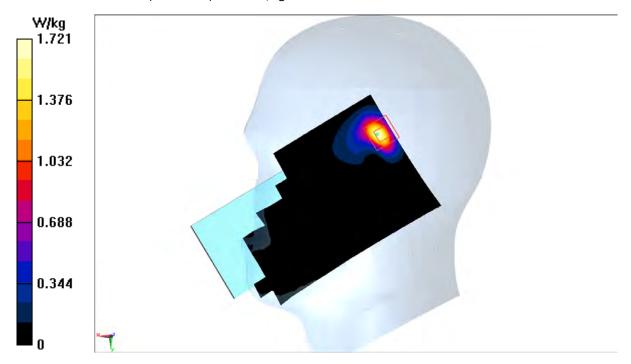
Maximum value of SAR (interpolated) = 1.72 W/kg

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

Reference Value = 3.477 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.31 W/kg

SAR(1 g) = 0.922 W/kg; SAR(10 g) = 0.367 W/kgMaximum value of SAR (measured) = 1.62 W/kg



N41 Body 10mm

Date: 8/23/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 2640 MHz; $\sigma = 1.996$ S/m; $\epsilon r = 40.14$; $\rho = 1000$ kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N41 30kHz (0) Frequency: 2640 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

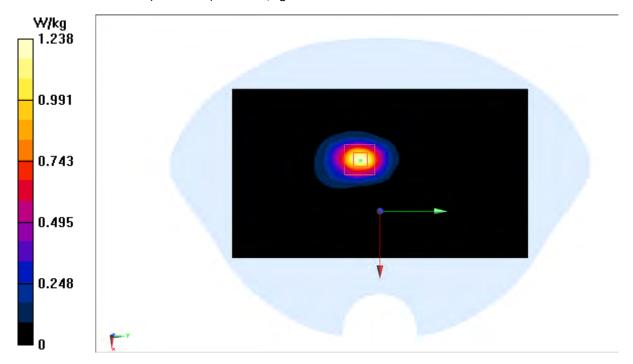
Maximum value of SAR (interpolated) = 1.24 W/kg

Zoom Scan (9x10x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.638 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 0.817 W/kg; SAR(10 g) = 0.348 W/kgMaximum value of SAR (measured) = 1.36 W/kg



N66 Head

Date: 8/28/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 1775 MHz; σ = 1.382 S/m; ϵ r = 40.91; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N66 15kHz (0) Frequency: 1777.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(8.25, 8.25, 8.25)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

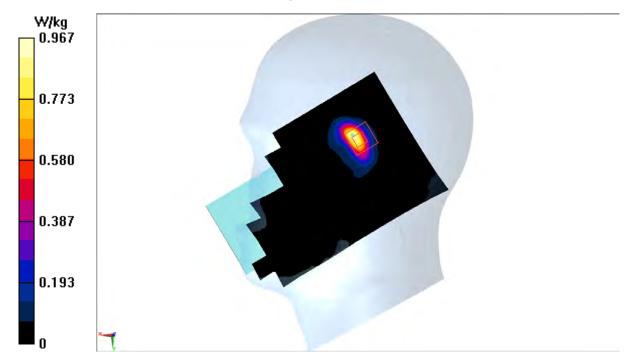
Maximum value of SAR (interpolated) = 0.967 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.95 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.481 W/kg; SAR(10 g) = 0.197 W/kgMaximum value of SAR (measured) = 0.672 W/kg



N66 Body 10mm

Date: 8/28/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 1745 MHz; σ = 1.367 S/m; ϵ r = 40.94; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G NR (0) Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(8.25, 8.25, 8.25)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

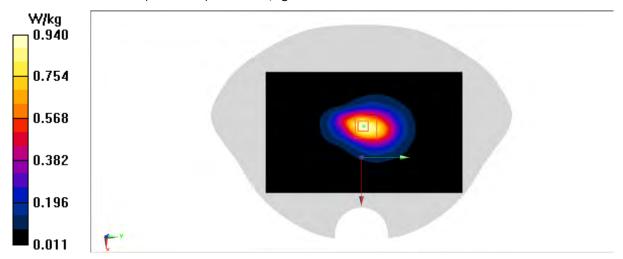
Maximum value of SAR (interpolated) = 0.934 W/kg

Zoom Scan (5x5x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.67 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.660 W/kg; SAR(10 g) = 0.384 W/kgMaximum value of SAR (measured) = 0.940 W/kg



N71 Head

Date: 8/3/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 700 MHz; σ = 0.883 S/m; ϵ r = 43.04; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N71 15kHz (0) Frequency: 680.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(9.09, 9.18, 9.51)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

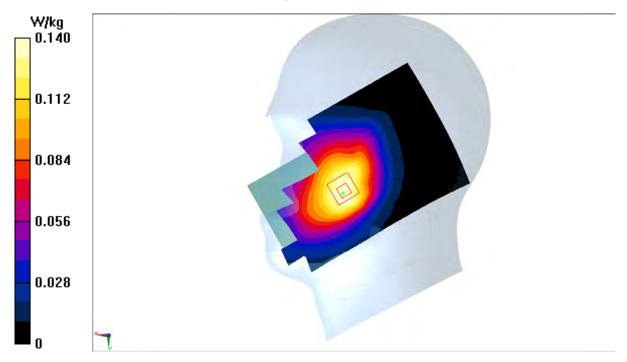
Maximum value of SAR (interpolated) = 0.140 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.938 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.152 W/kg

SAR(1 g) = 0.116 W/kg; SAR(10 g) = 0.090 W/kgMaximum value of SAR (measured) = 0.138 W/kg



N71 Body 10mm

Date: 8/3/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 700 MHz; σ = 0.877 S/m; ϵ r = 43.06; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G NR (0) Frequency: 665.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(9.09, 9.18, 9.51)

Area Scan (121x221x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

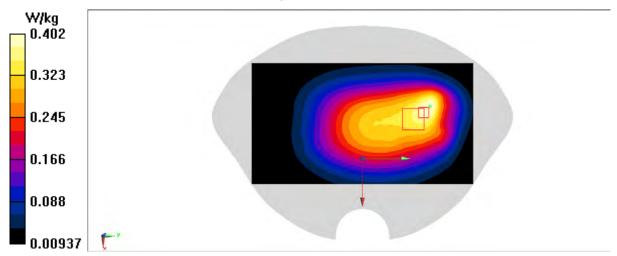
Maximum value of SAR (interpolated) = 0.413 W/kg

Zoom Scan (12x12x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 20.45 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.486 W/kg

SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.215 W/kgMaximum value of SAR (measured) = 0.402 W/kg



N77-L Head

Date: 8/17/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 3500 MHz; σ = 2.833 S/m; ϵ r = 38.23; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G NR (0) Frequency: 3500.01 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(6.73, 6.82, 6.94)

Area Scan (121x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

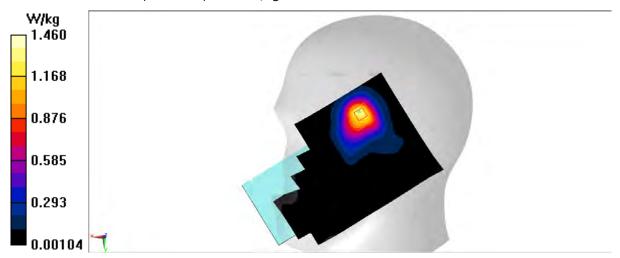
Maximum value of SAR (interpolated) = 1.34 W/kg

Zoom Scan (9x9x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 8.765 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 0.801 W/kg; SAR(10 g) = 0.359 W/kgMaximum value of SAR (measured) = 1.46 W/kg



N77-L Body 10mm

Date: 8/17/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 3500 MHz; σ = 2.833 S/m; ϵ r = 38.23; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G NR (0) Frequency: 3500.01 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(6.73, 6.82, 6.94)

Area Scan (121x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

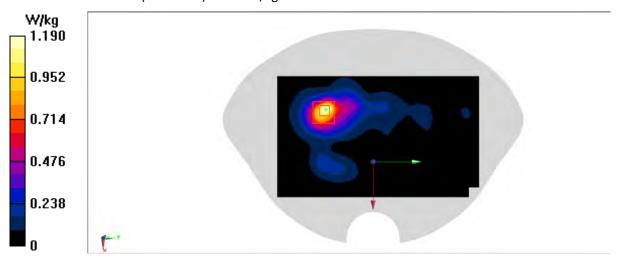
Maximum value of SAR (interpolated) = 1.21 W/kg

Zoom Scan (9x9x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 4.890 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 0.619 W/kg; SAR(10 g) = 0.262 W/kgMaximum value of SAR (measured) = 1.19 W/kg



N77-H Head

Date: 8/17/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 3975 MHz; σ = 3.293 S/m; ϵ r = 37.51; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G NR (0) Frequency: 3975 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(6.74, 6.84, 6.96)

Area Scan (121x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

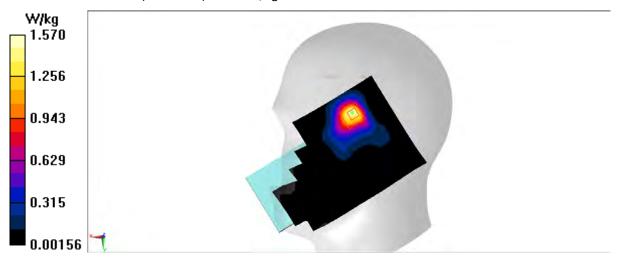
Maximum value of SAR (interpolated) = 1.51 W/kg

Zoom Scan (9x9x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 8.795 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.14 W/kg

SAR(1 g) = 0.847 W/kg; SAR(10 g) = 0.360 W/kgMaximum value of SAR (measured) = 1.57 W/kg



N77-H Body 10mm

Date: 8/17/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 3705 MHz; σ = 3.028 S/m; ϵ r = 37.9; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G NR (0) Frequency: 3705 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(6.48, 6.59, 6.69)

Area Scan (121x221x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

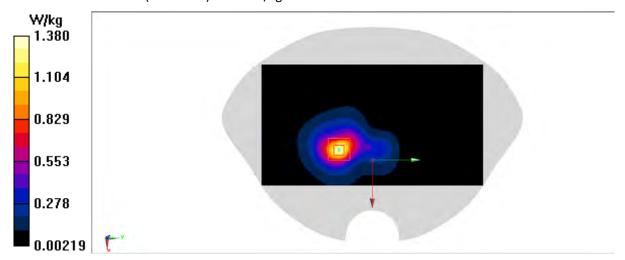
Maximum value of SAR (interpolated) = 1.34 W/kg

Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 8.108 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 0.746 W/kg; SAR(10 g) = 0.315 W/kgMaximum value of SAR (measured) = 1.38 W/kg



N78-L Head

Date: 8/17/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 3445 MHz; σ = 2.784 S/m; ϵ r = 38.31; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N78 30kHz (0) Frequency: 3445.01 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(6.73, 6.82, 6.94)

Area Scan (121x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

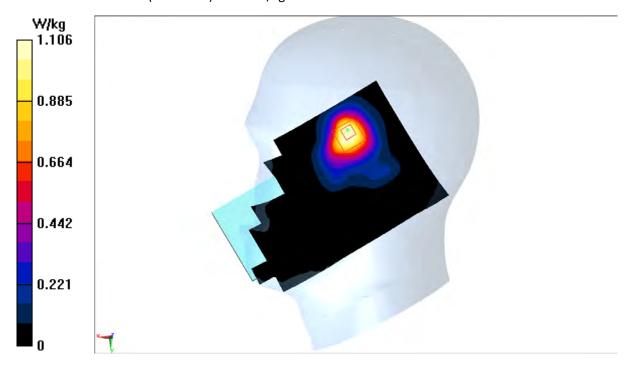
Maximum value of SAR (interpolated) = 1.11 W/kg

Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 6.789 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 0.720 W/kg; SAR(10 g) = 0.333 W/kgMaximum value of SAR (measured) = 1.30 W/kg



N78-L Body 10mm

Date: 8/17/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 3445 MHz; σ = 2.784 S/m; ϵ r = 38.31; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N78 30kHz (0) Frequency: 3445.01 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(6.73, 6.82, 6.94)

Area Scan (121x221x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

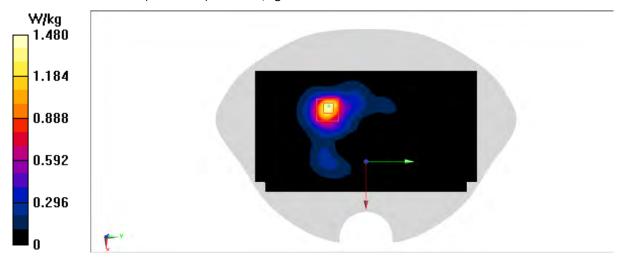
Maximum value of SAR (interpolated) = 1.48 W/kg

Zoom Scan (10x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.709 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 0.801 W/kg; SAR(10 g) = 0.344 W/kgMaximum value of SAR (measured) = 1.48 W/kg



N78-H Head

Date: 8/17/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 3795 MHz; σ = 3.113 S/m; ϵ r = 37.76; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N78 30kHz (0) Frequency: 3795 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(6.48, 6.59, 6.69)

Area Scan (121x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

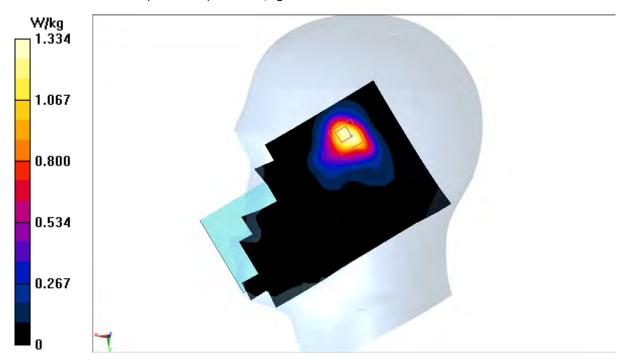
Maximum value of SAR (interpolated) = 1.33 W/kg

Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 6.627 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 0.832 W/kg; SAR(10 g) = 0.331 W/kgMaximum value of SAR (measured) = 1.60 W/kg



N78-H Body 10mm

Date: 8/17/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 3750 MHz; σ = 3.07 S/m; ϵ r = 37.83; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G n78 (0) Frequency: 3750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(6.48, 6.59, 6.69)

Area Scan (121x221x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

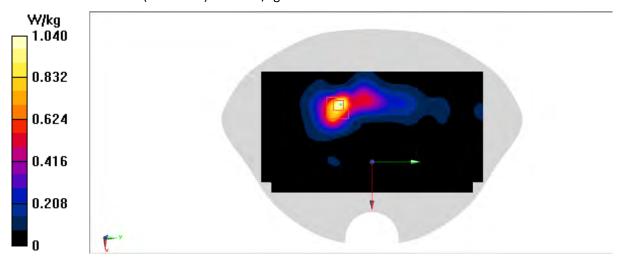
Maximum value of SAR (interpolated) = 1.09 W/kg

Zoom Scan (9x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.661 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.535 W/kg; SAR(10 g) = 0.226 W/kgMaximum value of SAR (measured) = 1.04 W/kg



WIFI2.4G Head

Date: 7/30/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used (interpolated): f = 2460 MHz; σ = 1.838 S/m; ϵ r = 39.98; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WLan 2450 (0) Frequency: 2462 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.43, 7.43, 7.43)

Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

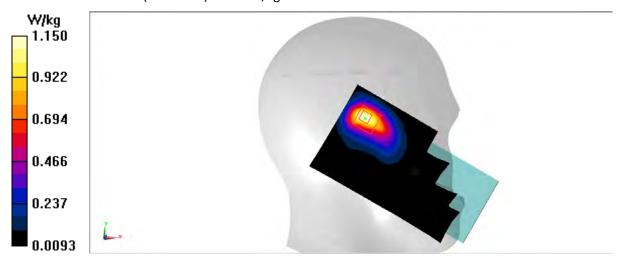
Maximum value of SAR (interpolated) = 1.16 W/kg

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

Reference Value = 10.31 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.746 W/kg; SAR(10 g) = 0.376 W/kgMaximum value of SAR (measured) = 1.15 W/kg



WIFI2.4G Body 10mm

Date: 7/30/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used (interpolated): f = 2460 MHz; σ = 1.838 S/m; ϵ r = 39.98; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WLan 2450 (0) Frequency: 2462 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.43, 7.43, 7.43)

Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

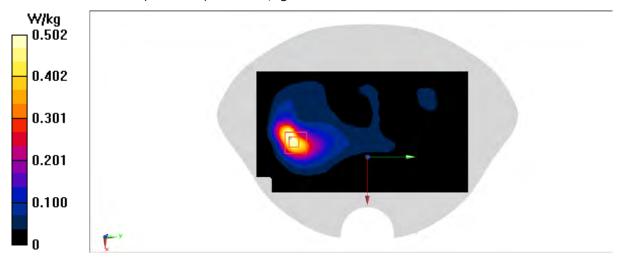
Maximum value of SAR (interpolated) = 0.549 W/kg

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

Reference Value = 4.744 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.671 W/kg

SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.148 W/kgMaximum value of SAR (measured) = 0.502 W/kg



WIFI5G Head

Date: 8/31/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 5580 MHz; σ = 4.878 S/m; ϵ r = 34.74; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WIFI 5G (0) Frequency: 5580 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(4.75, 4.75, 4.75)

Area Scan (91x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

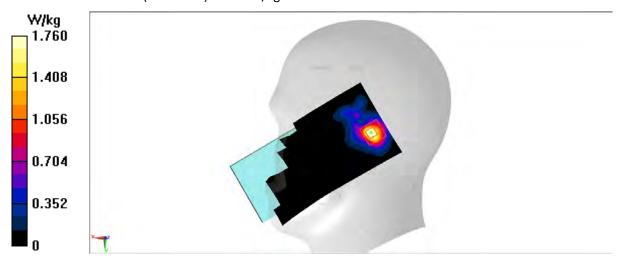
Maximum value of SAR (interpolated) = 1.87 W/kg

Zoom Scan (9x9x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 15.55 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.86 W/kg

SAR(1 g) = 0.758 W/kg; SAR(10 g) = 0.273 W/kgMaximum value of SAR (measured) = 1.76 W/kg



WIFI5G Body 10mm

Date: 8/31/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 5220 MHz; σ = 4.477 S/m; ϵ r = 35.4; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 1WLAN 11a (0) Frequency: 5220 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(5.45, 5.45, 5.45)

Area Scan (91x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 1.81 W/kg

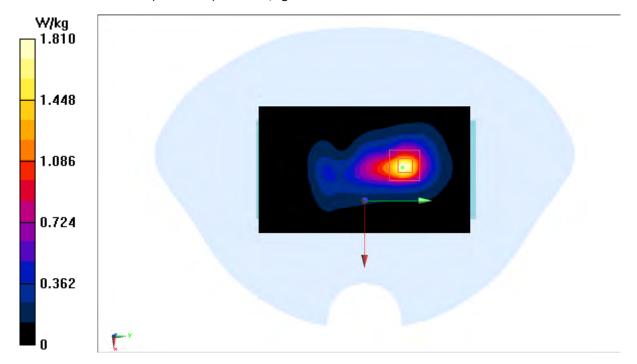
Zoom Scan (11x12x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

SAR(1 g) = 0.837 W/kg; SAR(10 g) = 0.295 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 66.7%

Maximum value of SAR (measured) = 1.89 W/kg



BT Head

Date: 7/30/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used (interpolated): f = 2440 MHz; σ = 1.824 S/m; ϵ r = 40.02; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, Bluetooth2 (0) Frequency: 2441 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.43, 7.43, 7.43)

Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.332 W/kg

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

Reference Value = 3.387 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.380 W/kg

SAR(1 g) = 0.191 W/kg; SAR(10 g) = 0.096 W/kgMaximum value of SAR (measured) = 0.312 W/kg



BT Body 10mm

Date: 7/30/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used (interpolated): f = 2440 MHz; σ = 1.824 S/m; ϵ r = 40.02; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, Bluetooth2 (0) Frequency: 2441 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.43, 7.43, 7.43)

Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

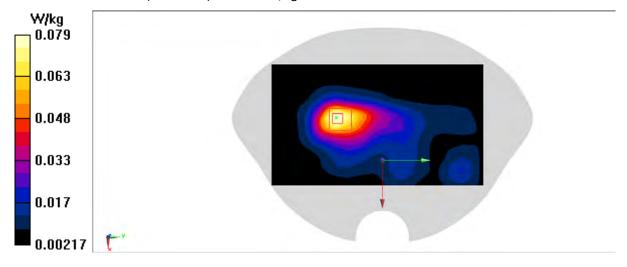
Maximum value of SAR (interpolated) = 0.0837 W/kg

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

Reference Value = 3.469 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0960 W/kg

SAR(1 g) = 0.052 W/kg; SAR(10 g) = 0.029 W/kgMaximum value of SAR (measured) = 0.0785 W/kg



ANNEX B SYSTEM VALIDATION RESULTS

750 MHz

Date: 8/3/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 750 MHz; $\sigma = 0.911$ S/m; $\epsilon r = 42.97$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, CW (0) Frequency: 750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(9.09, 9.18, 9.51);

Area Scan (131x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

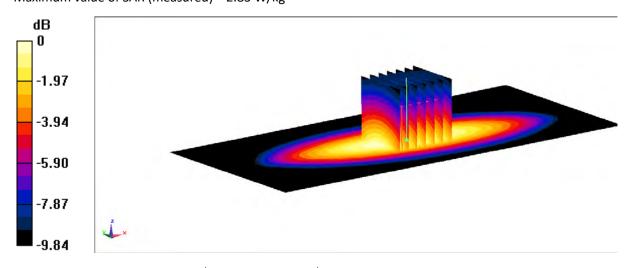
Maximum value of SAR (interpolated) = 2.74 W/kg

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

Reference Value = 54.31 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 3.11 W/kg

SAR(1 g) = 2.14 W/kg; SAR(10 g) = 1.43 W/kgMaximum value of SAR (measured) = 2.83 W/kg



0 dB = 2.83 W/kg = 4.52 dBW/kg

Date: 8/29/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 835 MHz; σ = 0.94 S/m; ϵ r = 42.66; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, CW (0) Frequency: 835 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (131x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

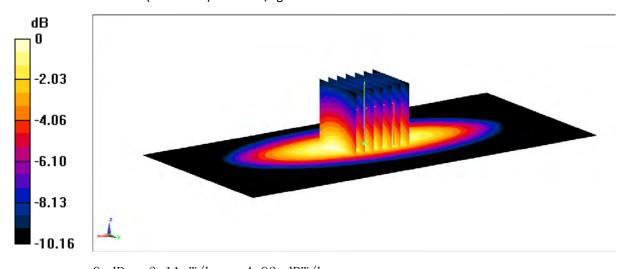
Maximum value of SAR (interpolated) = 3.06 W/kg

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

Reference Value = 55.91 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 3.42 W/kg

SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.55 W/kgMaximum value of SAR (measured) = 3.11 W/kg



0 dB = 3.11 W/kg = 4.93 dBW/kg

Date: 8/4/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 835 MHz; σ = 0.935 S/m; ϵ_r = 42.41; ρ = 1000 kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C Communication System: CW (0) Frequency: 835 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(8.69, 9.48, 9.34);

Area Scan (131x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

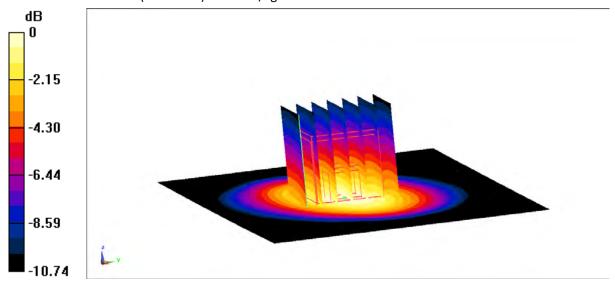
Maximum value of SAR (interpolated) = 3.18 W/kg

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

Reference Value = 57.25 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 3.58 W/kg

SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.52 W/kgMaximum value of SAR (measured) = 3.22 W/kg



0 dB = 3.22 W/kg = 5.08 dBW/kg

Date: 8/28/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 1750 MHz; σ = 1.369 S/m; ϵ r =40.93; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, CW (0) Frequency: 1750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(8.25, 8.25, 8.25);

Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

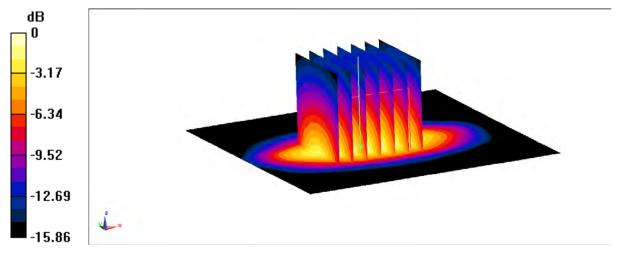
Maximum value of SAR (interpolated) = 13.5 W/kg

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

Reference Value = 94.14 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 15.7 W/kg

SAR(1 g) = 8.94 W/kg; SAR(10 g) = 4.83 W/kgMaximum value of SAR (measured) = 13.5 W/kg



0 dB = 13.5 W/kg = 11.30 dBW/kg

Date: 8/19/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 1900 MHz; σ = 1.451 S/m; ϵ r = 40.77; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, CW (0) Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95);

Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

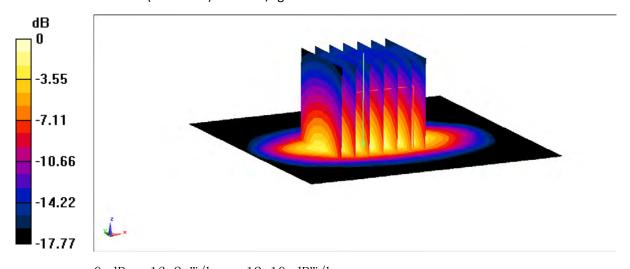
Maximum value of SAR (interpolated) = 15.9 W/kg

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

Reference Value = 98.87 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 19.4 W/kg

SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.29 W/kgMaximum value of SAR (measured) = 16.2 W/kg



0 dB = 16.2 W/kg = 12.10 dBW/kg

Date: 8/16/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 1900 MHz; σ = 1.442 S/m; ϵ r = 40.53; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, CW (0) Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(7.64, 7.81, 7.99)

Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

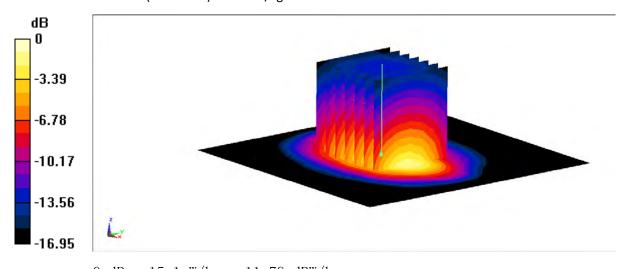
Maximum value of SAR (interpolated) = 14.8 W/kg

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

Reference Value = 98.79 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 17.7 W/kg

SAR(1 g) = 9.84 W/kg; SAR(10 g) = 5.16 W/kgMaximum value of SAR (measured) = 15.1 W/kg



0 dB = 15.1 W/kg = 11.79 dBW/kg

Date: 7/30/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 2450 MHz; σ = 1.83 S/m; ϵ r = 39.99; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, CW (0) Frequency: 2450 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.43, 7.43, 7.43)

Area Scan (61x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

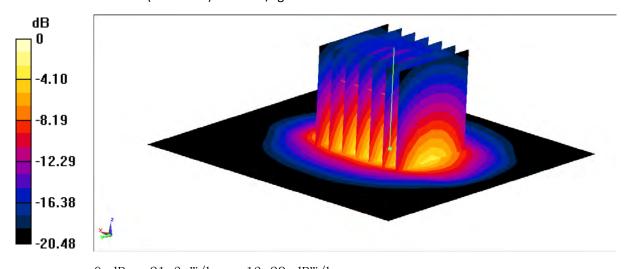
Maximum value of SAR (interpolated) = 20.1 W/kg

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

Reference Value = 93.82 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 25.8 W/kg

SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.13 W/kgMaximum value of SAR (measured) = 21.3 W/kg



0 dB = 21.3 W/kg = 13.28 dBW/kg

Date: 8/22/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 2600 MHz; σ = 1.945 S/m; ϵ r = 39.76; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, CW (0) Frequency: 2600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (61x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

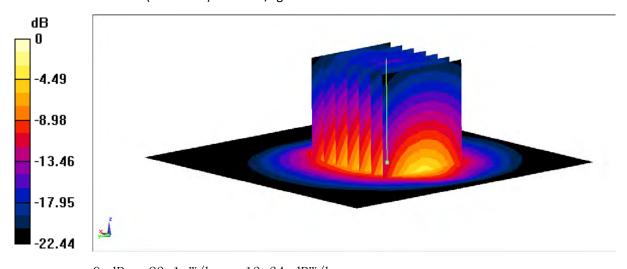
Maximum value of SAR (interpolated) = 22.6 W/kg

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

Reference Value = 100.4 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 28.6 W/kg

SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.15 W/kgMaximum value of SAR (measured) = 23.1 W/kg



0 dB = 23.1 W/kg = 13.64 dBW/kg

Date: 8/28/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 2600 MHz; σ = 1.933 S/m; ϵ r = 39.52; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, CW (0) Frequency: 2600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(7.34, 7.45, 7.58);

Area Scan (61x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

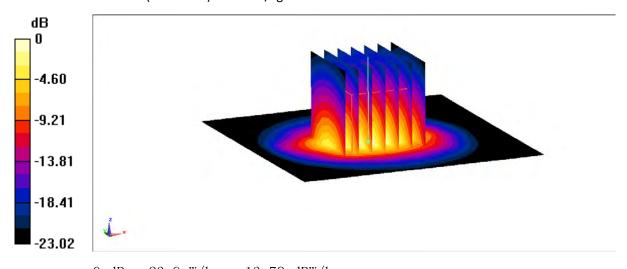
Maximum value of SAR (interpolated) = 22.4 W/kg

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

Reference Value = 101.5 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 29.7 W/kg

SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.06 W/kgMaximum value of SAR (measured) = 23.9 W/kg



0 dB = 23.9 W/kg = 13.78 dBW/kg

Date: 8/23/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 2600 MHz; σ = 1.966 S/m; ϵ r = 40.2; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, CW (0) Frequency: 2600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (61x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

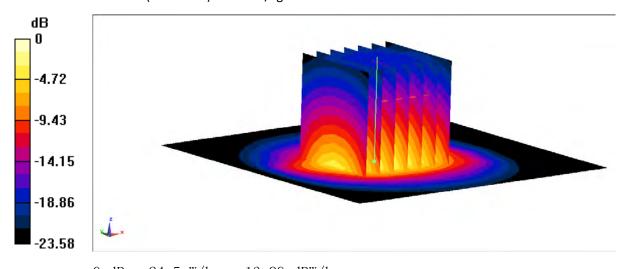
Maximum value of SAR (interpolated) = 23.1 W/kg

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

Reference Value = 100.1 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 30.6 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.18 W/kgMaximum value of SAR (measured) = 24.5 W/kg



0 dB = 24.5 W/kg = 13.89 dBW/kg

Date: 8/17/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 3500 MHz; σ = 2.833 S/m; ϵ r = 38.23; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, CW (0) Frequency: 3500 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(6.73, 6.82, 6.94)

Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 12.5 W/kg

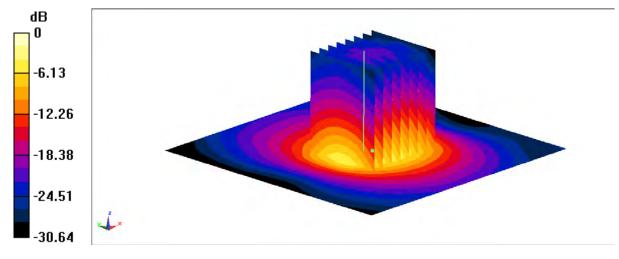
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.72 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 16.4 W/kg

SAR(1 g) = 6.64 W/kg; SAR(10 g) = 2.54 W/kg

Maximum value of SAR (measured) = 11.8 W/kg



0 dB = 11.8 W/kg = 10.72 dBW/kg

Date: 8/17/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 3700 MHz; σ = 3.024 S/m; ϵ r = 37.91; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, CW (0) Frequency: 3700 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(6.48, 6.59, 6.69)

Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 12.8 W/kg

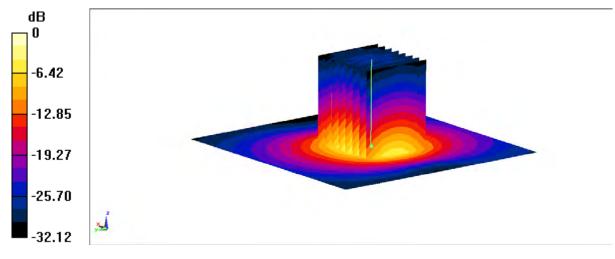
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.22 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 6.63 W/kg; SAR(10 g) = 2.41 W/kg

Maximum value of SAR (measured) = 12.6 W/kg



0 dB = 12.6 W/kg = 11.00 dBW/kg

Date: 8/17/2024

Electronics: DAE4 Sn1525 Medium: H700-6000M

Medium parameters used: f = 3900 MHz; σ = 3.215 S/m; ϵ r = 37.61; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, CW (0) Frequency: 3900 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(6.74, 6.84, 6.96)

Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 13.7 W/kg

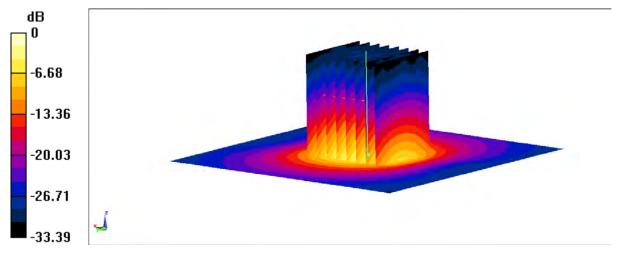
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 68.36 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 18.8 W/kg

SAR(1 g) = 6.75 W/kg; SAR(10 g) = 2.38 W/kg

Maximum value of SAR (measured) = 12.9 W/kg



0 dB = 12.9 W/kg = 11.11 dBW/kg

Date: 8/31/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 5250 MHz; σ = 4.513 S/m; ϵ r = 35.33; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, CW (0) Frequency: 5250 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(5.45, 5.45, 5.45)

Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 19.2 W/kg

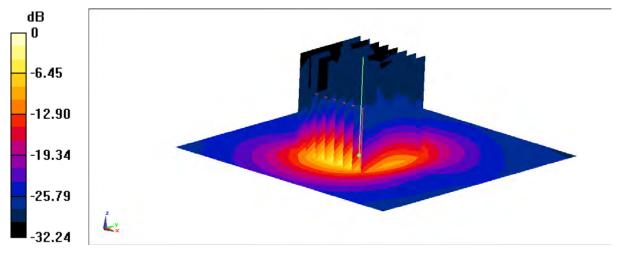
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 49.52 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 31.9 W/kg

SAR(1 g) = 7.82 W/kg; SAR(10 g) = 2.17 W/kg

Maximum value of SAR (measured) = 18.3 W/kg



0 dB = 18.3 W/kg = 12.62 dBW/kg

Date: 8/31/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 5600 MHz; σ = 4.901 S/m; ϵ r = 34.71; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, CW (0) Frequency: 5600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(4.75, 4.75, 4.75)

Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 20.4 W/kg

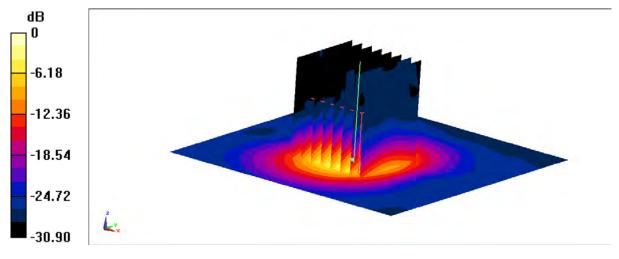
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 50.08 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 36.2 W/kg

SAR(1 g) = 8.14 W/kg; SAR(10 g) = 2.26 W/kg

Maximum value of SAR (measured) = 19.6 W/kg



0 dB = 19.6 W/kg = 12.92 dBW/kg

Date: 8/31/2024

Electronics: DAE4 Sn1807 Medium: H700-6000M

Medium parameters used: f = 5750 MHz; σ = 5.072 S/m; ϵ r = 34.44; ρ = 1000 kg/m3

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, CW (0) Frequency: 5750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(4.9, 4.9, 4.9)

Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 19.8 W/kg

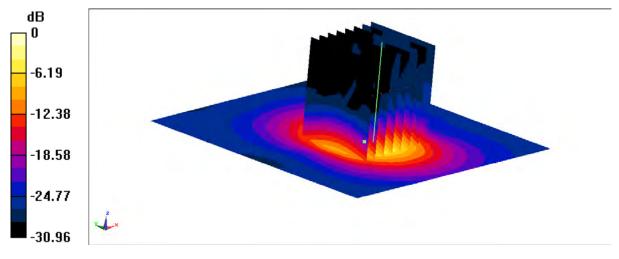
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 50.16 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 35.9 W/kg

SAR(1 g) = 7.81 W/kg; SAR(10 g) = 2.23 W/kg

Maximum value of SAR (measured) = 19.0 W/kg

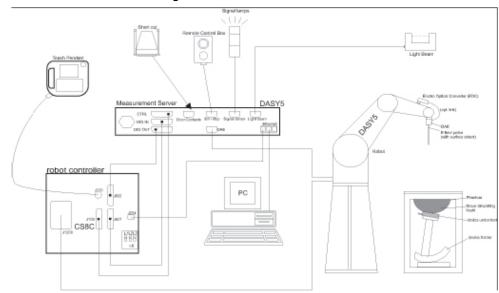


0 dB = 19.0 W/kg = 12.79 dBW/kg

ANNEX C SAR Measurement Setup

C.1 Measurement Set-up

The Dasy5 or DASY6 system for performing compliance tests is illustrated above graphically. This system consists of the following items:



Picture C.1SAR Lab Test Measurement Set-up

- A standard high precision 6-axis robot (StäubliTX=RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the DASY5 or DASY6 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as
- warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

C.2 Dasy5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe is constructed using the thick film technique; with printed resistive lines on ceramic substrates. The probe is equipped with an optical multifiber line ending at the front of the probe tip. It is connected to the EOC box on the robot arm and provides an automatic detection of the phantom surface. Half of the fibers are connected to a pulsed infrared transmitter, the other half to a synchronized receiver. As the probe approaches the surface, the reflection from the surface produces a coupling from the transmitting to the receiving fibers. This reflection increases first during the approach, reaches maximum and then decreases. If the probe is flatly touching the surface, the coupling is zero. The distance of the coupling maximum to the surface is independent of the surface reflectivity and largely independent of the surface to probe angle. The DASY5 or DASY6 software reads the reflection durning a software approach and looks for the maximum using 2nd ord curve fitting. The approach is stopped at reaching the maximum.

Probe Specifications:

Model: ES3DV3, EX3DV4

Frequency 10MHz — 6.0GHz(EX3DV4) Range: 10MHz — 4GHz(ES3DV3)

Calibration: In head and body simulating tissue at

Frequencies from 835 up to 5800MHz

Linearity: ± 0.2 dB(30 MHz to 6 GHz) for EX3DV4

± 0.2 dB(30 MHz to 4 GHz) for ES3DV3 DynamicRange: 10 mW/kg — 100W/kg

Probe Length: 330 mm

Probe Tip

Length: 20 mm Body Diameter: 12 mm

Tip Diameter: 2.5 mm (3.9 mm for ES3DV3)
Tip-Center: 1 mm (2.0mm for ES3DV3)

Application:SAR Dosimetry Testing

Compliance tests ofmobile phones

Dosimetry in strong gradient fields

Picture C.3E-field Probe

C.3 E-field Probe Calibration

Each E-Probe/Probe Amplifier combination has unique calibration parameters. A TEM cell calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm²) using an RF Signal generator, TEM cell, and RF Power Meter.

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and inn a waveguide or



Picture C.2Near-field Probe



other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1 mW/cm².

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The E-field in the medium correlates with the temperature rise in the dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$SAR = C \frac{\Delta T}{\Delta t}$$

Where:

 Δt = Exposure time (30 seconds),

C = Heat capacity of tissue (brain or muscle),

 ΔT = Temperature increase due to RF exposure.

$$SAR = \frac{\left|E\right|^2 \cdot \sigma}{\rho}$$

Where:

 σ = Simulated tissue conductivity,

 ρ = Tissue density (kg/m³).

C.4 Other Test Equipment

C.4.1 Data Acquisition Electronics(DAE)

The data acquisition electronics consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



PictureC.4: DAE

C.4.2 Robot

The SPEAG DASY system uses the high precision robots (DASY5: RX160L) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchron motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)



Picture C.5 DASY 5

C.4.3 Measurement Server

The Measurement server is based on a PC/104 CPU broad with CPU (DASY5: 400 MHz, Intel Celeron), chipdisk (DASY5: 128MB), RAM DASY5: 128MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O broad, which is directly connected to the PC/104 bus of the CPU broad.

The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. The PC operating system cannot interfere with these time critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port which is reserved for future applications. Please note that this expansion port does not have a standardized pinout, and therefore only devices provided by SPEAG can be connected. Devices from any other supplier could seriously damage the measurement server.



Picture C.6 Server for DASY 5

C.4.4 Device Holder for Phantom

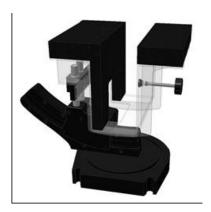
The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5mm distance, a positioning uncertainty of ±0.5mm would produce a SAR uncertainty of ±20%. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

The DASY device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles. The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity $\ell=3$ and loss tangent $\delta=0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered. <Laptop Extension Kit>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the Mounting Device in place of the phone positioner. The extension is fully compatible with the Twin-SAM and ELI phantoms.



Picture C7-1: Device Holder



Picture C.7-2: Laptop Extension Kit

C.4.5 Phantom

The SAM Twin Phantom V4.0 is constructed of a fiberglass shell integrated in a table. The shape of the shell is based on data from an anatomical study designed to

Represent the 90th percentile of the population. The phantom enables the dissymmetric evaluation of SAR for both left and right handed handset usage, as well as body-worn usage using the flat phantom region. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot. The shell phantom has a 2mm shell thickness (except the ear region where shell thickness increases to 6 mm).

Shell Thickness: 2±0. 2 mm

Filling Volume: Approx. 25 liters

Dimensions: 810 x 1000 x 500 mm (H x L x W)

Available: Special

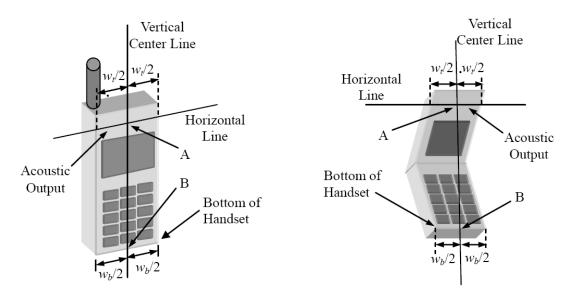


Picture C.8: SAM Twin Phantom

ANNEX D Position of the wireless device in relation to the phantom

D.1 General considerations

This standard specifies two handset test positions against the head phantom – the "cheek" position and the "tilt" position.



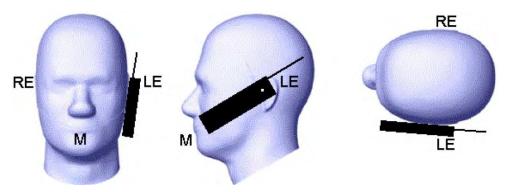
 W_t Width of the handset at the level of the acoustic

 W_b Width of the bottom of the handset

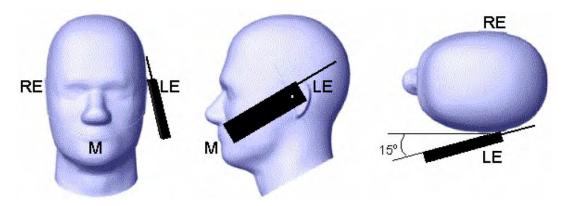
A Midpoint of the width W_t of the handset at the level of the acoustic output

B Midpoint of the width W_b of the bottom of the handset

Picture D.1-a Typical "fixed" case handset
Picture D.1-b Typical "clam-shell" case handset



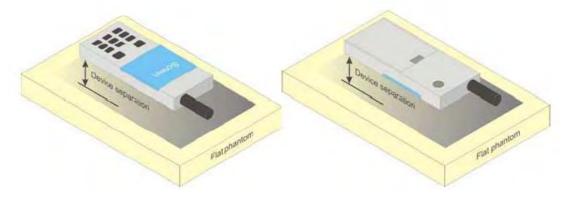
Picture D.2 Cheek position of the wireless device on the left side of SAM



Picture D.3 Tilt position of the wireless device on the left side of SAM

D.2 Body-worn device

A typical example of a body-worn device is a mobile phone, wireless enabled PDA or other battery operated wireless device with the ability to transmit while mounted on a person's body using a carry accessory approved by the wireless device manufacturer.

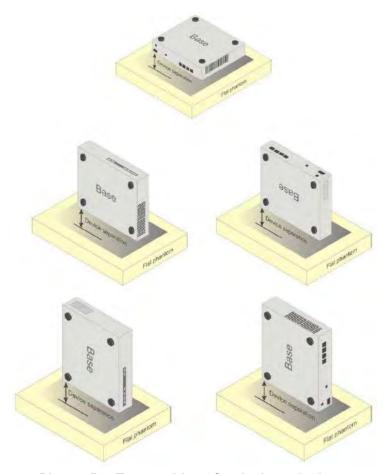


Picture D.4Test positions for body-worn devices

D.3 Desktop device

A typical example of a desktop device is a wireless enabled desktop computer placed on a table or desk when used.

The DUT shall be positioned at the distance and in the orientation to the phantom that corresponds to the intended use as specified by the manufacturer in the user instructions. For devices that employ an external antenna with variable positions, tests shall be performed for all antenna positions specified. Picture 8.5 show positions for desktop device SAR tests. If the intended use is not specified, the device shall be tested directly against the flat phantom.



Picture D.5 Test positions for desktop devices

D.4 DUT Setup Photos



Picture D.6

ANNEX E Equivalent Media Recipes

The liquid used for the frequency range of 800-3000 MHz consisted of water, sugar, salt, preventol, glycol monobutyl and Cellulose. The liquid has been previously proven to be suited for worst-case. The Table E.1 shows the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the IEEE 1528 and IEC 62209.

TableE.1: Composition of the Tissue Equivalent Matter

Frequency	835Hea	835Bod	1900	1900	2450	2450	5800	5800	
(MHz)	d	у	Head	Body	Head	Body	Head	Body	
Ingredients (% by weight)									
Water	41.45	52.5	55.242	69.91	58.79	72.60	65.53	65.53	
Sugar	56.0	45.0	/	/	/	/	/	\	
Salt	1.45	1.4	0.306	0.13	0.06	0.18	\	\	
Preventol	0.1	0.1	\	\	\	\	\	\	
Cellulose	1.0	1.0	\	\	\	\	\	\	
Glycol	١	,	44.450	20.06	41.15	27.22	١	\	
Monobutyl	\	\	44.452	29.96	41.13	21.22	\	\	
Diethylenglycol									
monohexylethe	\	\	\	\	\	\	17.24	17.24	
r									
Triton X-100	1	\	\	\	\	\	17.24	17.24	
Dielectric	ε=41.5	ε=55.2	ε=40.0	ε=53.3	ε=39.2	ε=52.7	ε=35.3	ε=48.2	
Parameters	σ=0.90	σ=0.97	σ=1.4	σ=1.5	σ=1.8	σ=1.9	σ=5.2	σ=6.0	
Target Value	0-0.90	0-0.87	0	2	0	5	7	0	

Note: There are a little adjustment respectively for 750, 1750, 2600, 5200, 5300 and 5600 based on the recipe of closest frequency in table E.1.

ANNEX F System Validation

The SAR system must be validated against its performance specifications before it is deployed. When SAR probes, system components or software are changed, upgraded or recalibrated, these must be validated with the SAR system(s) that operates with such components.

Table F.1: System Validation for 7464

Probe SN. Liquid name Validation date Frequency point Status (OK or Not) 7464 Head 13MHz February 26,2024 13MHz OK 7464 Head 450MHz February 26,2024 150MHz OK 7464 Head 300MHz February 26,2024 300MHz OK 7464 Head 450MHz February 26,2024 300MHz OK 7464 Head 450MHz February 26,2024 450MHz OK 7464 Head 350MHz February 26,2024 350MHz OK 7464 Head 900MHz February 26,2024 900MHz OK 7464 Head 1450MHz February 26,2024 900MHz OK 7464 Head 1450MHz February 26,2024 150MHz OK 7464 Head 150MHz February 26,2024 1750Mtz OK 7464 Head 1810MHz February 27,2024 1810MHz OK 7464 Head 1810MHz February 27,2024 2000MHz OK 7464 Head 2000MHz February 27,2	Table F.1. System valuation for 7404									
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7464 Head 150MHz February 26,2024 150MHz OK 7464 Head 300MHz February 26,2024 300MHz OK 7464 Head 450MHz February 26,2024 300MHz OK 7464 Head 750MHz February 26,2024 750MHz OK 7464 Head 835MHz February 26,2024 835MHz OK 7464 Head 900MHz February 26,2024 1450MHz OK 7464 Head 1450MHz February 26,2024 1450MHz OK 7464 Head 150MHz February 26,2024 1750MHz OK 7464 Head 1810MHz February 26,2024 1750MHz OK 7464 Head 1900MHz February 26,2024 1810MHz OK 7464 Head 1900MHz February 27,2024 2000MHz OK 7464 Head 2100MHz February 27,2024 2000MHz OK 7464 Head 2300MHz February 27,2024 2300MHz OK 7464 Head 2450MHz February 28,2024 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>										
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7464 Head 6500MHz March 01,2024 6500MHz OK	7464	Head 5800MHz	February 29,2024		OK					
7464 Head 7000MHz March 01,2024 7000MHz OK	7464	Head 6500MHz		6500MHz	OK					
	7464	Head 7000MHz	March 01,2024	7000MHz	OK					

Table F.1: System Validation for 3846

Probe SN.	Liquid name	Validation date	Frequency point	Status (OK or Not)
3846	Head 750MHz	July 20,2024	750MHz	OK
3846	Head 900MHz	July 20,2024	900MHz	OK
3846	Head 1450MHz	July 20,2024	1450MHz	OK
3846	Head 1750MHz	July 20,2024	1750MHz	OK
3846	Head 1900MHz	July 20,2024	1900MHz	OK
3846	Head 2100MHz	July 21,2024	2100MHz	OK
3846	Head 2300MHz	July 21,2024	2300MHz	OK
3846	Head 2450MHz	July 21,2024	2450MHz	OK
3846	Head 2600MHz	July 21,2024	2600MHz	OK
3846	Head 3300MHz	July 22,2024	3300MHz	OK
3846	Head 3500MHz	July 22,2024	3500MHz	OK
3846	Head 3700MHz	July 22,2024	3700MHz	OK
3846	Head 3900MHz	July 22,2024	3900MHz	OK
3846	Head 4100MHz	July 22,2024	4100MHz	OK
3846	Head 4200MHz	July 22,2024	4200MHz	OK
3846	Head 4400MHz	July 22,2024	4400MHz	OK
3846	Head 4600MHz	July 22,2024	4600MHz	OK
3846	Head 4800MHz	July 22,2024	4800MHz	OK
3846	Head 4950MHz	July 22,2024	4950MHz	OK
3846	Head 5250MHz	July 23,2024	5250MHz	OK
3846	Head 5600MHz	July 23,2024	5600MHz	OK
3846	Head 5750MHz	July 23,2024	5750MHz	OK

ANNEX G PROBE CALIBRATION CERTIFICATE

Probe 3846 Calibration Certificate



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2117

Client

E-mail: emf@caict.ac.cn http://www.caict.ac.cn CTTL



Certificate No: 24J02Z000266

CALIBRATION CERTIFICATE

Object EX3DV4 - SN: 3846

Calibration Procedure(s) FF-Z11-004-02

Calibration Procedures for Dosimetric E-field Probes

Calibration date: June 19, 2024

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)°C and humidity<70%. Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID# Call	Date(Calibrated by, Certificate No.) Scheduled	Calibration
Power Meter NRP2	106277	19-Oct-23(CTTL, No.J23X11026)	Oct-24
Power sensor NRP8S	104291	19-Oct-23(CTTL, No.J23X11026)	Oct-24
Power sensor NRP8S	104292	19-Oct-23(CTTL, No.J23X11026)	Oct-24
Reference 10dBAttenuator	18N50W-10dB	19-Jan-23(CTTL, No.J23X00212)	Jan-25
Reference 20dBAttenuator	18N50W-20dB	19-Jan-23(CTTL, No.J23X00211)	Jan-25
Reference Probe EX3DV4	SN 7464	22-Jan-24(SPEAG, No.EX-7464_Jan24)	Jan-25
DAE4	SN 1555	24-Aug-23(SPEAG, No.DAE4-1555_Aug23)	Aug-24
Secondary Standards	ID#	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
SignalGenerator MG3700A	6201052605	12-Jun-24(CTTL, No.24J02X005419)	Jun-25
SignalGenerator APSIN26G	181-33A6D0700-19	59 26-Mar-24(CTTL, No.24J02X002468)	Mar-25
Network Analyzer E5071C	MY46110673	25-Dec-23(CTTL, No.J23X13425)	Dec-24
Reference 10dBAttenuator	BT0520	11-May-23(CTTL, No.J23X04061)	May-25
Reference 20dBAttenuator	BT0267	11-May-23(CTTL, No.J23X04062)	May-25
OCP DAK-12	SN 1174	25-Oct-23(SPEAG, No.OCP-DAK12-1174 (Oct23) Oct-24

Name Function Signature Calibrated by: Yu Zongying SAR Test Engineer Reviewed by: Lin Jun SAR Test Engineer Approved by: Qi Dianyuan SAR Project Leader

Issued: June 30, 2024

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.





Glossary:

TSL tissue simulating liquid
NORMx,y,z sensitivity in free space
ConvF sensitivity in TSL / NORMx,y,z
DCP diode compression point

CF crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters

Polarization Φ rotation around probe axis

Polarization θ θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i

 θ =0 is normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system Calibration is Performed According to the Following Standards:

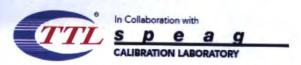
- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization θ=0 (f≤900MHz in TEM-cell; f>1800MHz: waveguide).
 NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z* frequency_response (see Frequency Response Chart). This
 linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the
 frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics.
- Ax,y,z; Bx,y,z; Cx,y,z;VRx,y,z:A,B,C are numerical linearization parameters assessed based on the
 data of power sweep for specific modulation signal. The parameters do not depend on frequency nor
 media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f≤800MHz) and inside waveguide using analytical field distributions based on power measurements for f >800MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty valued are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from±50MHz to±100MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the
 probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Certificate No:24J02Z000266

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3846

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
$Norm(\mu V/(V/m)^2)^A$	0.39	0.47	0.48	±10.0%
DCP(mV) ^B	100.4	101.0	102.4	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Unc ^E (<i>k</i> =2)
0	cw	Х	0.0	0.0	1.0	0.00	153.1	±2.0%
		Y 0.0 0.0 1.0	1.0		174.2			
		Z	0.0	0.0	1.0		173.4	

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

A The uncertainties of Norm X, Y, Z do not affect the E2-field uncertainty inside TSL (see Page 4).

^B Numerical linearization parameter: uncertainty not required.

^E Uncertainly is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.





DASY/EASY - Parameters of Probe: EX3DV4 - SN:3846

Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz] ^C	Relative Permittivity F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unct. (k=2)
750	41.9	0.89	9.89	9.89	9.89	0.20	1.25	±12.7%
900	41.5	0.97	9.38	9.38	9.38	0.15	1.49	±12.7%
1450	40.5	1.20	8.62	8.62	8.62	0.17	1.16	±12.7%
1750	40.1	1.37	8.25	8.25	8.25	0.29	0.99	±12.7%
1900	40.0	1.40	7.95	7.95	7.95	0.28	1.10	±12.7%
2100	39.8	1.49	7.80	7.80	7.80	0.25	1.09	±12.7%
2300	39.5	1.67	7.69	7.69	7.69	0.66	0.69	±12.7%
2450	39.2	1.80	7.43	7.43	7.43	0.66	0.70	±12.7%
2600	39.0	1.96	7.28	7.28	7.28	0.66	0.70	±12.7%
3300	38.2	2.71	6.96	6.96	6.96	0.54	0.88	±13.9%
3500	37.9	2.91	6.81	6.81	6.81	0.44	1.05	±13.9%
3700	37.7	3.12	6.71	6.71	6.71	0.46	1.05	±13.9%
3900	37.5	3.32	6.65	6.65	6.65	0.40	1.25	±13.9%
4100	37.2	3.53	6.57	6.57	6.57	0.35	1.30	±13.9%
4200	37.1	3.63	6.45	6.45	6.45	0.35	1.35	±13.9%
4400	36.9	3.84	6.37	6.37	6.37	0.40	1.25	±13.9%
4600	36.7	4.04	6.33	6.33	6.33	0.45	1.27	±13.9%
4800	36.4	4.25	6.26	6.26	6.26	0.45	1.25	±13.9%
4950	36.3	4.40	6.05	6.05	6.05	0.50	1.19	±13.9%
5250	35.9	4.71	5.45	5.45	5.45	0.45	1.40	±13.9%
5600	35.5	5.07	4.75	4.75	4.75	0.55	1.20	±13.9%
5750	35.4	5.22	4.90	4.90	4.90	0.50	1.30	±13.9%

^c Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

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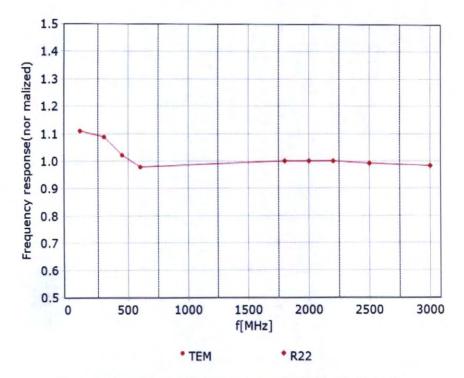
F At frequency up to 6 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.





Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ±7.4% (k=2)

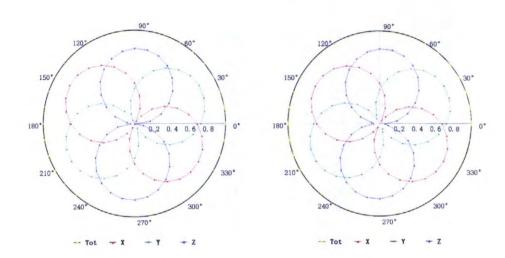


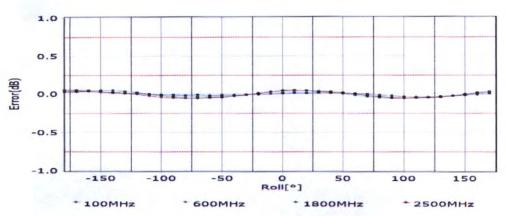


Receiving Pattern (Φ), θ=0°

f=600 MHz, TEM

f=1800 MHz, R22



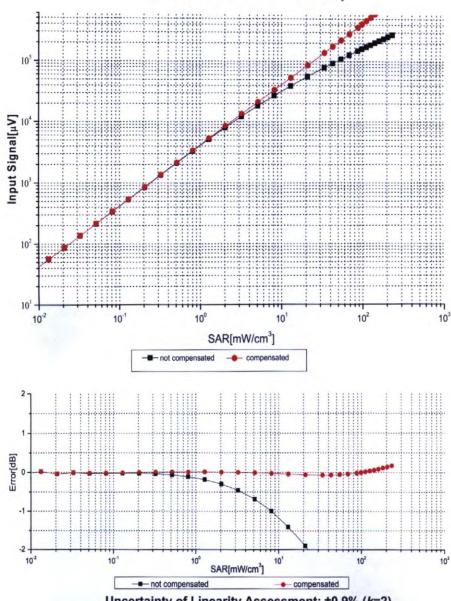


Uncertainty of Axial Isotropy Assessment: ±1.2% (k=2)





Dynamic Range f(SAR_{head}) (TEM cell, f = 900 MHz)



Uncertainty of Linearity Assessment: ±0.9% (k=2)

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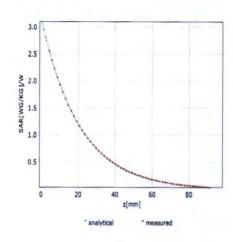
Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2117

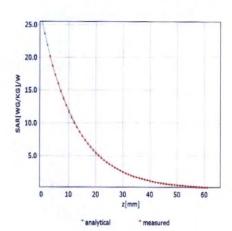
E-mail: emf@caict.ac.cn http://www.caict.ac.cn

Conversion Factor Assessment

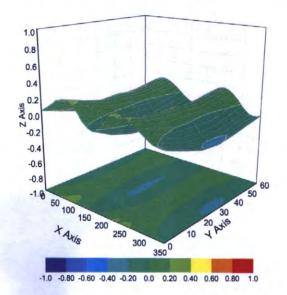
f=750 MHz,WGLS R9(H_convF)

f=1750 MHz,WGLS R22(H_convF)





Deviation from Isotropy in Liquid



Uncertainty of Spherical Isotropy Assessment: ±3.2% (k=2)

Certificate No:24J02Z000266

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3846

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	16.2
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disable
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	9mm
Tip Diameter	2.5mm
Probe Tip to Sensor X Calibration Point	1mm
Probe Tip to Sensor Y Calibration Point	1mm
Probe Tip to Sensor Z Calibration Point	1mm
Recommended Measurement Distance from Surface	1.4mm

Probe 7464 Calibration Certificate

Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Client

CTTL Beijing

Certificate No.

EX-7464 Jan24

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:7464

Calibration procedure(s)

QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,

QA CAL-25.v8

Calibration procedure for dosimetric E-field probes

Calibration date

January 22, 2024

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3) °C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
OCP DAK-3.5 (weighted)	SN: 1249	05-Oct-23 (OCP-DAK3.5-1249_Oct23)	Oct-24
OCP DAK-12	SN: 1016	05-Oct-23 (OCP-DAK12-1016_Oct23)	Oct-24
Reference 20 dB Attenuator	SN: CC2552 (20x)	30-Mar-23 (No. 217-03809)	Mar-24
DAE4	SN: 660	16-Mar-23 (No. DAE4-660_Mar23)	Mar-24
Reference Probe EX3DV4	SN: 7349	03-Nov-23 (No. EX3-7349_Nov23)	Nov-24

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check: Jun-24
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

Name Function

Signature

Calibrated by Joanna Lleshaj

Laboratory Technician

Approved by

Sven Kühn Technical Manager

Issued: January 24, 2024

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: EX-7464_Jan24

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Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary

TSL tissue simulating liquid
NORMx,y,z sensitivity in free space
ConvF sensitivity in TSL / NORMx,y,z
DCP diode compression point

CF crest factor (1/duty_cycle) of the RF signal A, B, C, D modulation dependent linearization parameters

Polarization φ φ rotation around probe axis

Polarization θ or rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\theta = 0$ is

normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

 a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices – Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.

b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization θ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- · PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of
 power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum
 calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ±50 MHz to ±100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis).
 No tolerance required.
- · Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required),

Parameters of Probe: EX3DV4 - SN:7464

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm $(\mu V/(V/m)^2)$ A	0.47	0.45	0.46	±10.1%
DCP (mV) B	99.7	100.5	100.4	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		A dB	$dB\sqrt{\mu V}$	С	D dB	VR mV	Max dev.	Max Unc ^E k = 2
0	CW	X	0.00	0.00	1.00	0.00	119.1	±2.0%	±4.7%
		Y	0.00	0.00	1.00		137.6		
		Z	0.00	0.00	1.00		116.5		
10352	Pulse Waveform (200Hz, 10%)	X	18.57	89.69	20.49	10.00	60.0	±2.7%	±9.6%
		Y	20.00	93.91	22.75		60.0		
		Z	20.00	92.74	22.54		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	20.00	90.77	19.55	6.99	80.0	±1.4%	±9.6%
		Y	20.00	98.49	24.17		80.0		
		Z	20.00	92.95	21.35		80.0		
10354	Pulse Waveform (200Hz, 40%)	X	20.00	93.60	19.50	3.98	95.0	±1.6%	±9.6%
	The same of the sa	Y	20.00	110.50	28.77		95.0		
		Z	20.00	95.00	20.85		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	20.00	96.22	19.51	2.22	120.0	±1.6%	±9.6%
		Y	20.00	133.23	37.93		120.0		
		Z	20.00	99.33	21.57		120.0		
10387	QPSK Waveform, 1 MHz	X	1.90	66.53	15.71	1.00	150.0	±1.6%	±9.6%
		Y	2.23	69.84	17.98		150.0		
		Z	1.96	66.48	15.85		150.0		
10388	QPSK Waveform, 10 MHz	X	2.56	69.56	16.46	0.00	150.0	±0.9%	±9.6%
		Y	3.31	74.50	19.22	1000	150.0		145,50
		Z	2.65	69.90	16.61		150.0		
10396	64-QAM Waveform, 100 kHz	X	3.42	71.74	19.12	3.01	150.0	±0.7%	±9.6%
		Y	4.98	79.46	22.89		150.0	772010	
		Z	4.16	74.48	20.31		150.0		
10399	64-QAM Waveform, 40 MHz	X	3.59	67.28	15.89	0.00	150.0	±1.0%	±9.6%
	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	Y	3.96	69.24	17.20		150.0		10.070
		Z	3.64	67.41	15.98		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	5.01	65.58	15.52	0.00	150.0	±1.9%	±9.6%
	See See See See See Supplied to See See See See See See See See See Se	Y	5.19	66.39	16.16		150.0	7	
		Z	5.06	65.58	15.53		150.0		

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

A The uncertainties of Norm X,Y,Z do not affect the E2-field uncertainty inside TSL (see Pages 5 to 7).

B Linearization parameter uncertainty for maximum specified field strength,

Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Parameters of Probe: EX3DV4 - SN:7464

Sensor Model Parameters

	C1 fF	C2 fF	v^{-1}	T1 ms V ⁻²	T2 ms V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	Т6
X	63.3	469.89	35.22	13.36	0.57	5.02	1.43	0.37	1.01
У	64.3	474.26	35.19	20.37	0.17	5.10	1.70	0.31	1.01
Z	72.2	537.29	35.39	17.48	0.83	5.05	1.31	0.47	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	33.9°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3-4 mm for an Area Scan job.

EX3DV4 - SN:7464 January 22, 2024

Parameters of Probe: EX3DV4 - SN:7464

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
13	55.0	0.75	17.62	17.62	17.62	0.00	1.25	±13.3%
64	54.2	0.75	13.32	13.32	13.32	0.00	1.25	±13.3%
150	52.3	0.76	11.73	11.73	11.73	0.00	1.25	±13.3%
300	45.3	0.87	11.39	11.39	11.39	0.09	1.00	±13.3%
450	43.5	0.87	10.79	10.79	10.79	0.16	1.30	±13.3%
750	41.9	0.89	9.09	9.18	9.51	0.37	1.27	±12.0%
835	41.5	0.90	8.69	9.48	9.34	0.36	1.27	±12.0%
900	41.5	0.97	8.73	9.09	9.30	0.37	1.27	±12.0%
1450	40.5	1.20	8.01	8.19	8.34	0.49	1.27	±12.0%
1640	40.2	1.31	7.66	7.69	7.93	0.45	1.27	±12.0%
1750	40.1	1.37	7.99	8.13	8.29	0.26	1.27	±12.0%
1810	40.0	1.40	8.04	8.18	8.37	0.29	1.27	±12.0%
1900	40.0	1.40	7.64	7.81	7.99	0.28	1.27	±12.0%
2000	40.0	1.40	7.57	7.71	7.88	0.29	1.27	±12.0%
2100	39.8	1.49	7.39	7.51	7.70	0.29	1.27	±12.0%
2300	39.5	1.67	7.46	7.60	7.77	0.30	1.27	±12.0%
2450	39.2	1.80	7.63	7.75	7.92	0.30	1.27	±12.0%
2600	39.0	1.96	7.34	7.45	7.58	0.29	1.27	±12.0%
3300	38.2	2.71	6.74	6.84	6.97	0.34	1.27	±14.0%
3500	37.9	2.91	6.73	6.82	6.94	0.34	1.27	±14.0%
3700	37.7	3.12	6.48	6.59	6.69	0.35	1.27	±14.0%
3900	37.5	3.32	6.74	6.84	6.96	0.36	1.27	±14.0%
4100	37.2	3.53	6.72	6.83	6.93	0.36	1.27	±14.0%
4200	37.1	3.63	6.65	6.76	6.87	0.36	1.27	±14.0%
4400	36.9	3.84	6.54	6.64	6.73	0.36	1.27	±14.0%
4600	36.7	4.04	6.46	6.56	6.66	0.36	1.27	±14.0%
4800	36.4	4.25	6.60	6.72	6.81	0.36	1.27	±14.0%
4950	36.3	4.40	6.05	6.11	6.28	0.48	1.36	±14.0%

C Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the CorvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for CorvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of CorvF assessed at 6 MHz is 4–9 MHz, and CorvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

F The probes are calibrated using tissue simulating liquids (TSL) that deviate for \$\epsilon\$ and \$\sigma\$ version be target values (typically better than ±3%) and are valid for TSL, with deviations of up to ±10%. If TSL with deviations from the target of less than ±5% are used, the calibration uncertainties are 11.1% for 3 - 6 GHz.

for 0.7 - 3 GHz and 13.1% for 3 - 6 GHz.

G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

Parameters of Probe: EX3DV4 - SN:7464

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
5200	36.0	4.66	5.41	5.50	5.64	0.38	1.64	±14.0%
5250	35.9	4.71	5.38	5.48	5.64	0.37	1.62	±14.0%
5300	35.9	4.76	5.31	5.35	5.51	0.37	1.65	±14.0%
5500	35.6	4.96	4.81	4.83	5.01	0.42	1.61	±14.0%
5600	35.5	5.07	4.68	4.70	4.88	0.40	1.66	±14.0%
5750	35.4	5.22	4.76	4.79	4.95	0.41	1.75	±14.0%
5800	35.3	5.27	4.72	4.77	4.92	0.39	1.86	±14.0%

^C Frequency validity above 300 MHz of \pm 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to \pm 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is \pm 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to \pm 110 MHz.

Figure 110 MHz.

Figure 120 MHz respectively. Validity of ConvF assessments at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to \pm 110 MHz.

Figure 121 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to \pm 110 MHz.

Figure 121 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to \pm 110 MHz.

Figure 122 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to \pm 110 MHz.

G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less $than \pm 1\% \ for \ frequencies \ below \ 3 \ GHz \ and \ below \ \pm 2\% \ for \ frequencies \ between \ 3-6 \ GHz \ at \ any \ distance \ larger \ than \ half \ the \ probe \ tip \ diameter \ from \ the \ diameter \ diameter \ from \ the \ diameter \ from \ diameter \ diameter \ from \ diameter \ diam$ boundary.

EX3DV4 - SN:7464 January 22, 2024

Parameters of Probe: EX3DV4 - SN:7464

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
6500	34.5	6.07	5.18	5.25	5.28	0.20	2.50	±18.6%
7000	33.9	6.65	5.50	5.55	5.59	0.20	2.00	±18.6%

C Frequency validity at 6.5 GHz is -600/+700 MHz, and ± 700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ϵ and σ by less than $\pm 10\%$ from the target values (typically better than $\pm 6\%$) and are valid for TSL with deviations of up to $\pm 10\%$.

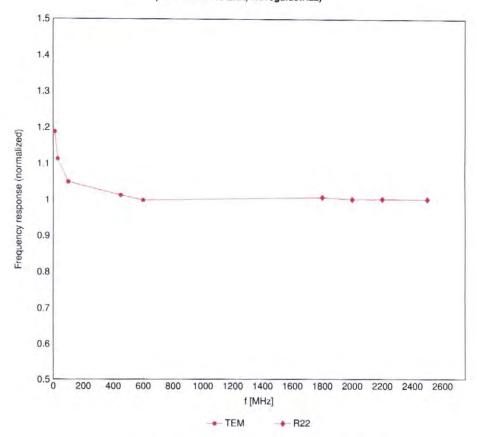
G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less

Certificate No: EX-7464_Jan24

than $\pm 1\%$ for frequencies below 3 GHz; below $\pm 2\%$ for frequencies between 3–6 GHz; and below $\pm 4\%$ for frequencies between 6–10 GHz at any distance larger than half the probe tip diameter from the boundary.

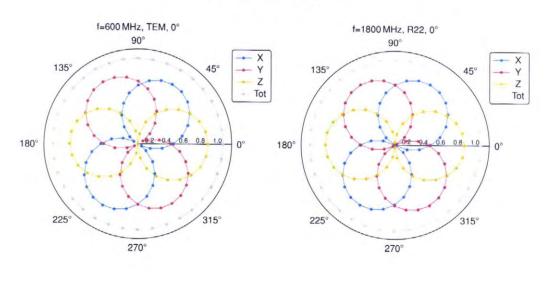
Frequency Response of E-Field

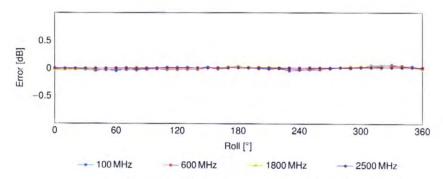
(TEM-Cell:ifi110 EXX, Waveguide:R22)



Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

Receiving Pattern (ϕ), $\vartheta=0^{\circ}$

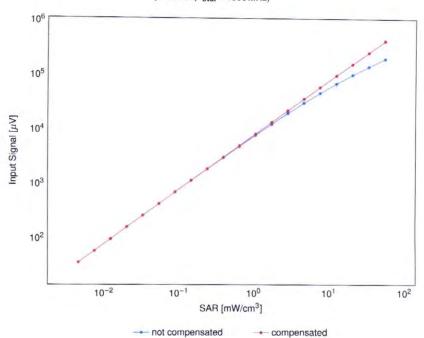


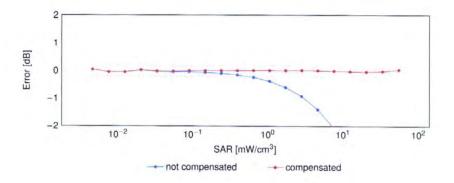


Uncertainty of Axial Isotropy Assessment: ±0.5% (k=2)

Dynamic Range f(SAR_{head})

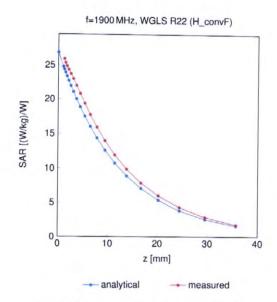
(TEM cell, $f_{eval} = 1900\,\text{MHz})$





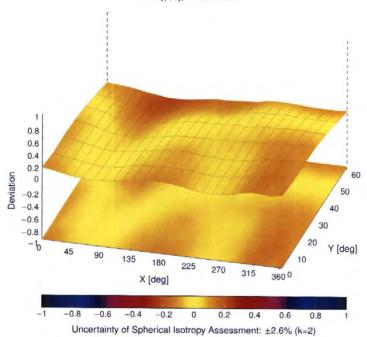
Uncertainty of Linearity Assessment: ±0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ , θ), f = 900 MHz



Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	UncE k = 2
10010	CAB	CW SAD Validation (Co	CW	0.00	±4.7
0010	CAC	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
0012	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
10013	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
10021	DAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
10023	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
10025	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1) EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	6.56	±9.6
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	12.62	±9.6
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	9.55	±9.6
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	4.80	±9.6
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	3.55	±9.6
10030	CAA	JEEE 802.15.1 Bluetooth (GFSK, DH1)	GSM	7.78	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	5.30	±9.6
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.87	±9.6
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	1.16	±9.6
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	7.74	±9.6
0035	CAA	IEEE 802.15.1 Bluelooth (PI/4-DQPSK, DH5)	Bluetooth	4.53	±9.6
0036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	3.83	±9.6
0037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	8.01 4.77	±9.6
0038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	±9.6
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.10	±9.6
0042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	±9.6
0044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6
0048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
0056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6
0058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±9.6
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6
0060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	±9.6
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6
0062	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
0063	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
0065	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10066	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6
0067	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6
10068	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
10069	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
0071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
0073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
0074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6
0075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6
0077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	10.94	±9.6
0081	CAB	CDMA2000 (1xRTT, RC3)	WLAN	11.00	±9.6
0082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	CDMA2000	3.97	±9.6
0090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	AMPS	4.77	±9.6
0097	CAC	UMTS-FDD (HSDPA)	GSM	6.56	±9.6
0098	CAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA WCDMA	3.98	±9.6
0099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)		3.98	±9.6
0100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	GSM LTE-FDD	9.55	±9.6
0101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	5.67	±9.6
0102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.42	±9.6
0103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6 ±9.6
0104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.29	±9.6
0105	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TOD	10.01	±9.6
0108	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
0109	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
0110	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6
0111	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6
10113	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10114	CAE	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10116	CAE	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6
10117	CAE	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6
10118	CAE	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK) IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.07	±9.6
10119	CAE	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	±9.6
10140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15MHz, 16-QAM)	WLAN	8.13	±9.6
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)	LTE-FDD	6.49	±9.6
10142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	6.53	±9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD LTE-FDD	5.73	±9.6
10144	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.35 6.65	±9.6
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
10147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6
10149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6,42	±9.6
10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6
10152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6
10154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
10155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6
10157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6
10160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
10161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	±9.6
10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6
10172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 ±9.6
10174	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.6
10176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10177	CAJ	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	+9.6
10178	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10179	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6
10182	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6
10186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10189		LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10193	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6
10194	CAE	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6
10195	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6
10196	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6
10197	CAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM) IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8,13	±9.6
10219	CAE	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN WLAN	8.27	±9.6
10220	CAE	IEEE 802.11n (HT Mixed, 7.2 Mbps, 16-QAM)	WLAN	8.03	±9.6
10220	CAE	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6
10221	CAE	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-GAM)	WLAN	8.27	±9.6
·VEEE		IEEE 802.11n (HT Mixed, 10 Mbps, 16-QAM)	WLAN	8.06 8.48	±9.6
10223	CAE				

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
10225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10226	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6
10227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6
10228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6
10229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6
10232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-TDD	9.21	±9.6
10235	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10236	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	+9.6
10237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	±9.6
10238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	9.21	±9.6 ±9.6
10240	CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6
10241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TOD	9.86	±9.6
	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TOD	9.46	±9.6
10243	CAE		LTE-TDD	10.06	±9.6
10244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
10245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6
10246	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6
10247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6
10249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6
10249	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6
10250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6
10252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6
10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6
10254	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6
10255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	±9.6
10257	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.6
10258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6
10259	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6
10260	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6
10261	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	±9.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	±9.6
10263	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	±9.6
10264	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6
10265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10266	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	±9.6
10267	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6
10268	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10269	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	±9.6
10270	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	±9.6
10274	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	+9.6
10275	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6
10277	CAA	PHS (QPSK)	PHS	11.81	±9.6
10278	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
10279	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	±9.6
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.6
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6
10297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	±9.6
10298	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6
10299	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6
10300	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10301	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WiMAX	12.03	±9.6
10302	AAA	IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WiMAX	12.57	±9.6
10303	AAA	IEEE 802.16e WiMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)	WiMAX	12.52	±9.6
10304	AAA	IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC)	WiMAX	11.86	±9.6
10305	AAA	IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WiMAX	15.24	±9.6
10306	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)	WiMAX	14.67	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10307	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WiMAX	14.49	±9.6
10308	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WiMAX	14.46	±9.6
10309	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WiMAX	14.58	±9.6
10310	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WiMAX	14.57	±9.6
10311	AAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK) iDEN 1:3	LTE-FDD	6.06	±9.6
10313	AAA		IDEN	10.51	±9.6
10314	AAA	IDEN 1:6	IDEN	13.48	±9.6
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
10316	AAE	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10317	AAA	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle) Pulse Waveform (200Hz, 10%)	WLAN Generic	8.36	±9.6
10352	AAA	Pulse Waveform (200Hz, 10%) Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	+9.6
10354	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.6
10330	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	±9.6
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6
10399	AAF	IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6
10400	AAF	IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
10401	AAF	IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	±9.6
10402	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.77	±9.6
10404	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	±9.6
10410	AAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	7.82	±9.6
10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	±9.6
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10417	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	±9.6
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8.19	±9.6
10422	AAD	IEEE 802.11n (HT Greenfield, 7,2 Mbps, BPSK)	WLAN	8.32	±9.6
10423	AAD	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	±9.6
10424	AAD	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	±9.6
10425	AAD	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	±9.6
10426	AAD	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	±9.6
10427	AAD	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	±9.6
10430	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	±9.6
10431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	±9.6
10432	AAD	LTE-FDD (OFDMA, 15MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10433	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10434	AAB	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	±9.6
10435	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10447	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6
10448	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	+9.6
10449	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	±9.6
10450	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9.6
10451	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6
10453	AAE	Validation (Square, 10 ms, 1 ms)	Test	10.00	±9.6
10456	AAD	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	±9.6
10457	AAB	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	±9.6
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	±9.6
10460	AAB	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9.6
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.30	±9.6
10463	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10465	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10466	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10467	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10468	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10469	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10470	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10471	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6

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10472	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10473	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10474	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10475	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10477	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10478	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10480	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	±9.6
10481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10482	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	±9.6
10483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	±9.6
10484	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	±9.6
10485	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	±9.6
10486	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.38	±9.6
10487	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	±9.6
10488	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	±9.6
10489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10490	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	±9.6
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10495	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	±9.6
10496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10497	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	±9.6
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	±9.6
10500	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	±9.6
10502	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	±9.6
10503	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	±9.6
10504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10505	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.54	±9.6
10506	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10507	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.36	±9.6
10508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.55	±9.6
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99 8.49	±9.6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.51	±9.6
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.42	±9.6
10513	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10514	AAA		WLAN	1.58	±9.6
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
	AAD		WLAN	8.23	±9.6
10518	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	±9.6
10519	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6
10520	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	7.97	±9.6
10521	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10523	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6
10523	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	±9.6
10524	AAD	IEEE 802.11a/f WiFi 5GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.36	±9.6
10525	AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.42	±9.6
10527	AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.21	±9.6
10528	AAD	IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.36	±9.6
10529	AAD	IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.36	±9.6
10529	AAD	IEEE 802.11ac WiFI (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.43	±9.6
10531	AAD	IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.29	±9.6
10532	AAD	IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.38	±9.6
10534	AAD	IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.45	±9.6
10535	AAD	IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.45	±9.6
10535	AAD	IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.32	±9.6
	AAD	IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
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10537	AAD	IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.54	±9.6

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10541	AAD	IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.46	±9.6
10542	AAD	IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.65	±9.6
10543	AAD	IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6
10544	AAD	IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6
10545	AAD	IEEE 802.11ac WiFi (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10546	AAD	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6
10547	AAD	IEEE 802.11ac WiFi (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	±9.6
10548	AAD	IEEE 802.11ac WiFi (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±9.6
10550	AAD	IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	±9.6
10551	AAD	IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.50 8.42	±9.6
10552	AAD	IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.45	±9.6
10554	AAE	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.48	±9.6
10555	AAE	IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
10556	AAE	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6
10557	AAE	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.52	±9.6
10558	AAE	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.61	±9.6
10560	AAE	IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.73	±9.6
10561	AAE	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.56	±9.6
10562	AAE	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	±9.6
10563	AAE	IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	±9.6
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67 8.59	±9.6
10583	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10584	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 5 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mops, 90pc duty cycle)	WLAN	8.49	±9.6
10587	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mops, 90pc duty cycle)	WLAN	8.36	±9.6
10588	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10589	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10590	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10591	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6
10592	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10593	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6
10594	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10595	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6
10596	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6
10597	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)	WLAN	8.72	±9.6
10598	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6
10599	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6
10600	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10601	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6
10602	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6
10603	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6
10604	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN	8.76	±9.6
10605	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9.6
10606	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10607	AAD	IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.64	±9.6
10608	AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.77	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k =
10609	AAD	IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6
10610	AAD	IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6
10611	AAD	IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
0612	AAD	IEEE 802.11ac WiFi (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10613	AAD	IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6
0614	AAD	IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6
10615	AAD	IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10616	AAD	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
10617	AAD	IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
10618	AAD	IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10619	AAD	IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6
10620	AAD	IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
10621	AAD	IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10622	AAD	IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6
10623	AAD	IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10624	AAD	IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9.6
10625	AAD	IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6
10626	AAD	IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10627	AAD	IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10628	AAD	IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.71	±9.6
10629	AAD	IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10630	AAD	IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6
10631	AAD	IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.81	±9.6
10632	AAD	IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10633	AAD	IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6
10634	AAD	IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6
10635	AAD	IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6
10636	AAE	IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10637	AAE	IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10638	AAE	IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6
0639	AAE	IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10640	AAE	IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9.6
10641	AAE	IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6
10642	AAE	IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10643	AAE	IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644	AAE	IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6
10645	AAE	IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10647	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10653	AAF	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6
10654	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6
10655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6
10658	AAB	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6
10659	AAB	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6
10660	AAB	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6
10661	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	±9.6
10671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6
10674		IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10675	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6
0676	AAC	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
10678	AAC	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
10679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
10680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6
10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6
10685	AAC	IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
	AAC	IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.28	±9.6