ANNEX A GRAPH RESULTS

GSM850 Head

Date: 10/24/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: f = 825 MHz; $\sigma = 0.871$ S/m; $\varepsilon_r = 43.842$; $\rho = 1000$ kg/m³

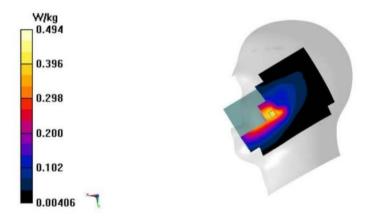
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, GSM 850 Frequency: 824.2 MHz Duty Cycle: 1:2.66993

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.415 W/kg

Zoom Scan (9x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mmReference Value = 6.906 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.664 W/kg SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.246 W/kg Maximum value of SAR (measured) = 0.494 W/kg



GSM850 Body

Date: 10/24/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: f = 848.8 MHz; $\sigma = 0.881$ S/m; $\varepsilon_r = 43.755$; $\rho = 1000$ kg/m³

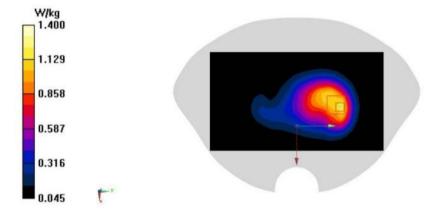
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, GSM 850 Frequency: 848.8 MHz Duty Cycle: 1:2.66993

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 1.17 W/kg

Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 26.58 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 1.73 W/kg SAR(1 g) = 0.931 W/kg; SAR(10 g) = 0.567 W/kg Maximum value of SAR (measured) = 1.40 W/kg



GSM1900 Head

Date: 10/30/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: f = 1880 MHz; $\sigma = 1.446$ S/m; $\varepsilon_r = 41.263$; $\rho = 1000$ kg/m³

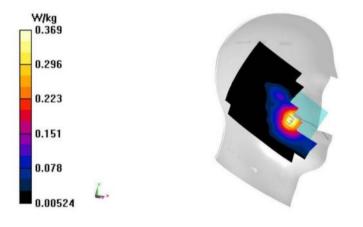
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, GSM 1900MHz Frequency: 1880 MHz Duty Cycle: 1:1.99986

Probe: EX3DV4 - SN7673 ConvF(8.1, 8.1, 8.1);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.363 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 3.099 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 0.428 W/kg SAR(1 g) = 0.277 W/kg; SAR(10 g) = 0.170 W/kg Maximum value of SAR (measured) = 0.369 W/kg



GSM1900 Body

Date: 10/30/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: f = 1850.2 MHz; $\sigma = 1.423 \text{ S/m}$; $\varepsilon_r = 41.334$; $\rho = 1000 \text{ kg/m}^3$

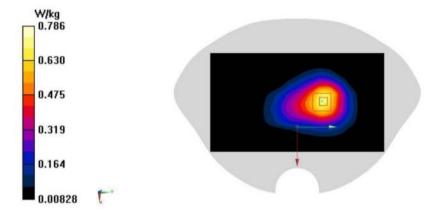
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, GSM 1900MHz Frequency: 1850.2 MHz Duty Cycle: 1:2.66993

Probe: EX3DV4 - SN7673 ConvF(8.1, 8.1, 8.1);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.696 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 19.34 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 0.924 W/kg SAR(1 g) = 0.557 W/kg; SAR(10 g) = 0.343 W/kg Maximum value of SAR (measured) = 0.786 W/kg



WCDMA850 Head

Date: 10/24/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 826.4 MHz; $\sigma = 0.872$ S/m; $\varepsilon_r = 43.837$; $\rho = 1000$ kg/m³

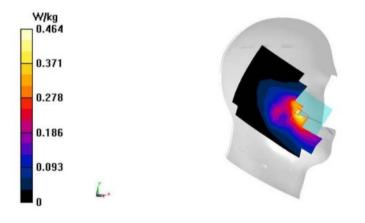
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WCDMA 850 (0) Frequency: 826.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.400 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mmReference Value = 5.938 V/m; Power Drift = 0.18 dB Peak SAR (extrapolated) = 0.554 W/kg SAR(1 g) = 0.337 W/kg; SAR(10 g) = 0.219 W/kg Maximum value of SAR (measured) = 0.464 W/kg



WCDMA850 Body

Date: 10/24/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 846.6 MHz; $\sigma = 0.88$ S/m; $\varepsilon_r = 43.762$; $\rho = 1000$ kg/m³

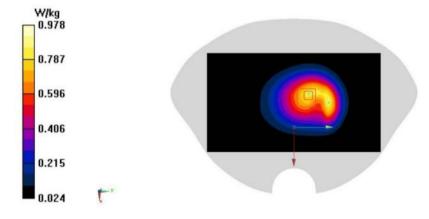
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WCDMA 850 (0) Frequency: 846.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.877 W/kg

Zoom Scan (6x8x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 27.11 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 1.21 W/kg SAR(1 g) = 0.679 W/kg; SAR(10 g) = 0.462 W/kg Maximum value of SAR (measured) = 0.978 W/kg



WCDMA1700 Head

Date: 10/28/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 1752.6 MHz; $\sigma = 1.36$ S/m; $\varepsilon_r = 41.46$; $\rho = 1000$ kg/m³

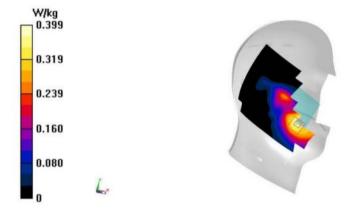
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WCDMA 1700 Band4 (0) Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(8.45, 8.45, 8.45);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.387 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 5.041 V/m; Power Drift = 0.17 dB Peak SAR (extrapolated) = 0.461 W/kg SAR(1 g) = 0.297 W/kg; SAR(10 g) = 0.196 W/kg Maximum value of SAR (measured) = 0.399 W/kg



WCDMA1700 Body

Date: 10/28/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 1752.6 MHz; $\sigma = 1.36$ S/m; $\varepsilon_r = 41.46$; $\rho = 1000$ kg/m³

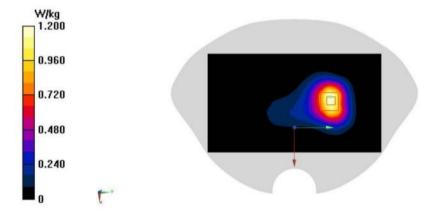
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WCDMA 1700 Band4 (0) Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(8.45, 8.45, 8.45);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 1.20 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 12.67 V/m; Power Drift = -0.14 dB Peak SAR (extrapolated) = 1.54 W/kg SAR(1 g) = 0.892 W/kg; SAR(10 g) = 0.526 W/kg Maximum value of SAR (measured) = 1.29 W/kg



WCDMA1900 Head

Date: 10/30/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 1907.6 MHz; $\sigma = 1.465$ S/m; $\varepsilon_r = 41.195$; $\rho = 1000$ kg/m³

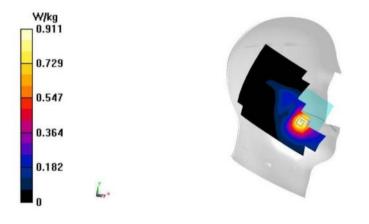
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WCDMA 1900 (0) Frequency: 1907.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(8.1, 8.1, 8.1);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.919 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 5.360 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 1.08 W/kg SAR(1 g) = 0.689 W/kg; SAR(10 g) = 0.415 W/kg Maximum value of SAR (measured) = 0.911 W/kg



WCDMA1900 Body

Date: 10/30/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 1852.4 MHz; $\sigma = 1.425$ S/m; $\varepsilon_r = 41.33$; $\rho = 1000$ kg/m³

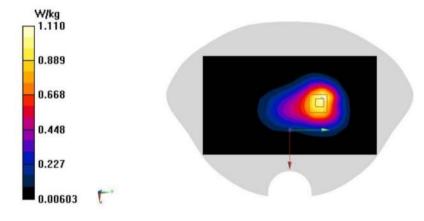
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WCDMA 1900 (0) Frequency: 1852.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(8.1, 8.1, 8.1);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 1.08 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 19.80 V/m; Power Drift = -0.10 dB Peak SAR (extrapolated) = 1.35 W/kg SAR(1 g) = 0.798 W/kg; SAR(10 g) = 0.485 W/kg Maximum value of SAR (measured) = 1.11 W/kg



LTE B5 Head

Date: 10/24/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 836.5 MHz; $\sigma = 0.876$ S/m; $\varepsilon_r = 43.799$; $\rho = 1000$ kg/m³

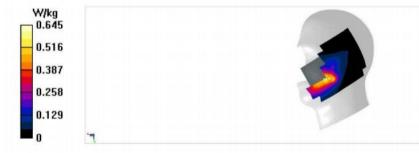
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, LTE Band5 (0) Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.538 W/kg

Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 5.966 V/m; Power Drift = -0.04 dBPeak SAR (extrapolated) = 0.816 W/kgSAR(1 g) = 0.454 W/kg; SAR(10 g) = 0.305 W/kgMaximum value of SAR (measured) = 0.645 W/kg



LTEB5 Body

Date: 10/24/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 836.5 MHz; $\sigma = 0.876$ S/m; $\varepsilon_r = 43.799$; $\rho = 1000$ kg/m³

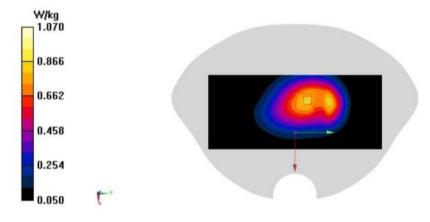
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, LTE Band5 (0) Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.846 W/kg

Zoom Scan (6x8x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 28.38 V/m; Power Drift = -0.16 dB Peak SAR (extrapolated) = 1.28 W/kg SAR(1 g) = 0.805 W/kg; SAR(10 g) = 0.563 W/kg Maximum value of SAR (measured) = 1.07 W/kg



LTE Band12 Head

Date: 10/22/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 707.5 MHz; $\sigma = 0.823 \text{ S/m}$; $\varepsilon_r = 44.261$; $\rho = 1000 \text{ kg/m}^3$

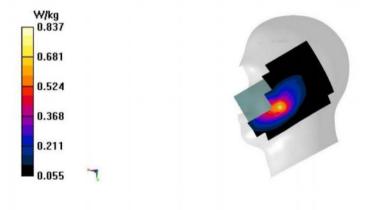
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, LTE Band12 (0) Frequency: 707.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.652 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.291 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.980 W/kg SAR(1 g) = 0.564 W/kg; SAR(10 g) = 0.360 W/kg Maximum value of SAR (measured) = 0.837 W/kg



LTEB12 Body

Date: 10/22/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 707.5 MHz; $\sigma = 0.823 \text{ S/m}$; $\varepsilon_r = 44.261$; $\rho = 1000 \text{ kg/m}^3$

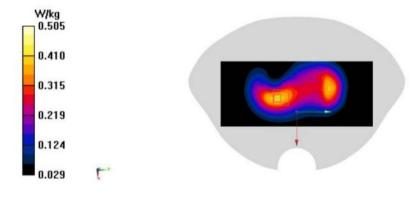
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, LTE Band12 (0) Frequency: 707.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.398 W/kg

Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mmReference Value = 18.62 V/m; Power Drift = 0.15 dB Peak SAR (extrapolated) = 0.591 W/kg SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.259 W/kg Maximum value of SAR (measured) = 0.505 W/kg



LTE Band25 Head

Date: 10/30/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 1882.5 MHz; $\sigma = 1.447$ S/m; $\varepsilon_r = 41.255$; $\rho = 1000$ kg/m³

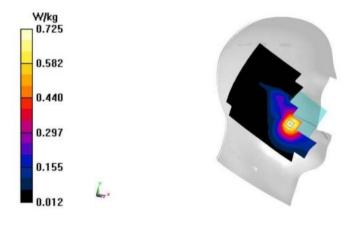
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, LTE Band25 (0) Frequency: 1882.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(8.1, 8.1, 8.1);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.743 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mmReference Value = 4.669 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 0.824 W/kg SAR(1 g) = 0.535 W/kg; SAR(10 g) = 0.330 W/kg Maximum value of SAR (measured) = 0.725 W/kg



LTE B25 Body

Date: 10/30/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 1882.5 MHz; $\sigma = 1.447$ S/m; $\varepsilon_r = 41.255$; $\rho = 1000$ kg/m³

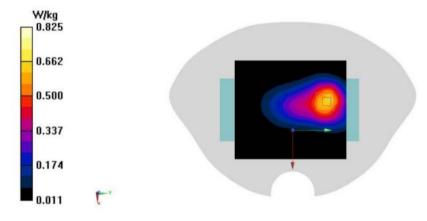
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, LTE Band25 (0) Frequency: 1882.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(8.1, 8.1, 8.1);

Area Scan (81x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.662 W/kg

Zoom Scan (6x6x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 15.06 V/m; Power Drift = -0.10 dB Peak SAR (extrapolated) = 0.984 W/kg SAR(1 g) = 0.598 W/kg; SAR(10 g) = 0.369 W/kg Maximum value of SAR (measured) = 0.825 W/kg



LTE Band26 Head

Date: 10/24/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 831.5 MHz; $\sigma = 0.874$ S/m; $\varepsilon_r = 43.818$; $\rho = 1000$ kg/m³

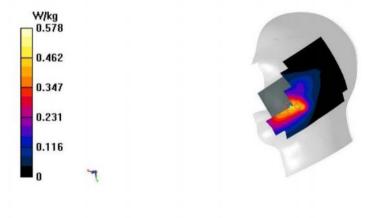
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.446 W/kg

Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mmReference Value = 5.001 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.737 W/kg SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.272 W/kg Maximum value of SAR (measured) = 0.578 W/kg



LTE B26 Body

Date: 10/24/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 831.5 MHz; $\sigma = 0.874$ S/m; $\varepsilon_r = 43.818$; $\rho = 1000$ kg/m³

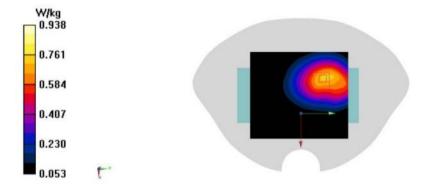
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (81x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.730 W/kg

Zoom Scan (6x6x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 17.89 V/m; Power Drift = 0.17 dB Peak SAR (extrapolated) = 1.09 W/kg SAR(1 g) = 0.704 W/kg; SAR(10 g) = 0.486 W/kg Maximum value of SAR (measured) = 0.938 W/kg



LTE B41 PC2 Head

Date: 11/5/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 2593 MHz; $\sigma = 1.972$ S/m; $\varepsilon_r = 39.892$; $\rho = 1000$ kg/m³

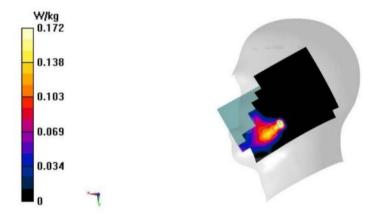
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, LTE Band41 PC2 (0) Frequency: 2593 MHz Duty Cycle: 1:2.30994

Probe: EX3DV4 - SN7673 ConvF(7.44, 7.44, 7.44);

Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.351 W/kg

Zoom Scan (8x12x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 0 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.352 W/kg SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.052 W/kg Maximum value of SAR (measured) = 0.172 W/kg



LTE B41 PC2 Body

Date: 11/5/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 2593 MHz; $\sigma = 1.972$ S/m; $\varepsilon_r = 39.892$; $\rho = 1000$ kg/m³

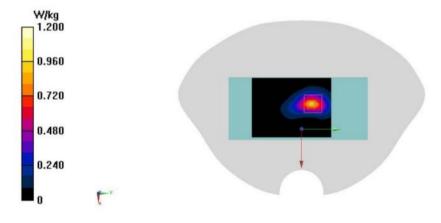
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, LTE Band41 PC2 (0) Frequency: 2593 MHz Duty Cycle: 1:2.30994

Probe: EX3DV4 - SN7673 ConvF(7.44, 7.44, 7.44);

Area Scan (61x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.882 W/kg

Zoom Scan (7x7x5)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 15.06 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 1.67 W/kg SAR(1 g) = 0.738 W/kg; SAR(10 g) = 0.321 W/kg Maximum value of SAR (measured) = 1.20 W/kg



LTE B41 PC3 Head

Date: 11/5/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 2593 MHz; $\sigma = 1.972$ S/m; $\varepsilon_r = 39.892$; $\rho = 1000$ kg/m³

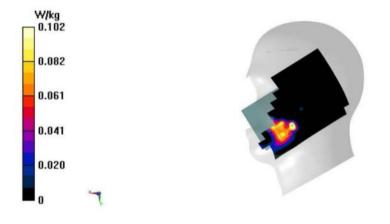
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, LTE Band41 PC3 (0) Frequency: 2593 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 - SN7673 ConvF(7.44, 7.44, 7.44);

Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.163 W/kg

Zoom Scan (7x11x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 0 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.158 W/kg SAR(1 g) = 0.059 W/kg; SAR(10 g) = 0.027 W/kg Maximum value of SAR (measured) = 0.102 W/kg



LTE B41 PC3 Body

Date: 11/5/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 2593 MHz; $\sigma = 1.972$ S/m; $\varepsilon_r = 39.892$; $\rho = 1000$ kg/m³

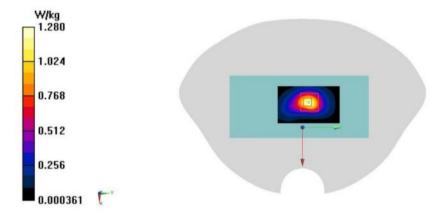
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, LTE Band41 PC3 (0) Frequency: 2593 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 - SN7673 ConvF(7.44, 7.44, 7.44);

Area Scan (31x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 1.28 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 17.52 V/m; Power Drift = 0.17 dB Peak SAR (extrapolated) = 1.77 W/kg SAR(1 g) = 0.819 W/kg; SAR(10 g) = 0.363 W/kg Maximum value of SAR (measured) = 1.28 W/kg



LTE B66 Head

Date: 10/28/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: f = 1745 MHz; $\sigma = 1.356$ S/m; $\varepsilon_r = 41.473$; $\rho = 1000$ kg/m³

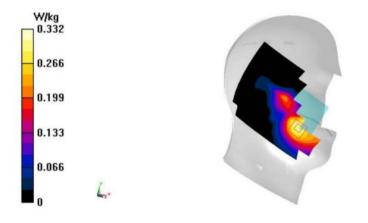
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 - SN7673 ConvF(8.45, 8.45, 8.45);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.313 W/kg

Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 4.407 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.383 W/kg SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.164 W/kg. Maximum value of SAR (measured) = 0.332 W/kg



LTE B66 Body

Date: 10/28/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: f = 1745 MHz; $\sigma = 1.356$ S/m; $\varepsilon_r = 41.473$; $\rho = 1000$ kg/m³

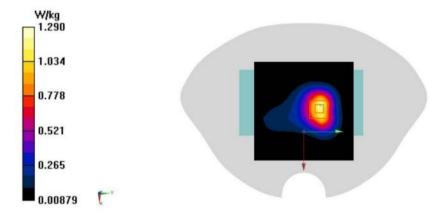
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 - SN7673 ConvF(8.45, 8.45, 8.45);

Area Scan (101x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 1.18 W/kg

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 19.95 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 1.54 W/kg SAR(1 g) = 0.872 W/kg; SAR(10 g) = 0.506 W/kg Maximum value of SAR (measured) = 1.29 W/kg



LTE Band71 Head

Date/Time: 10/22/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (extrapolated): f = 683 MHz; $\sigma = 0.813$ S/m; $\varepsilon_r = 44.343$; $\rho = 1000$ kg/m³

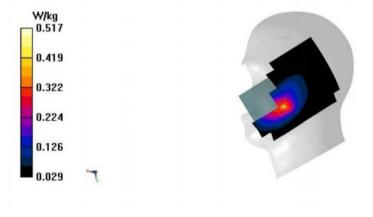
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, LTE Band71 (0) Frequency: 683 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.336 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 5.489 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.614 W/kg SAR(1 g) = 0.332 W/kg; SAR(10 g) = 0.206 W/kg Maximum value of SAR (measured) = 0.517 W/kg



LTE B71 Body

Date: 10/22/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (extrapolated): f = 683 MHz; $\sigma = 0.813$ S/m; $\varepsilon_r = 44.343$; $\rho = 1000$ kg/m³

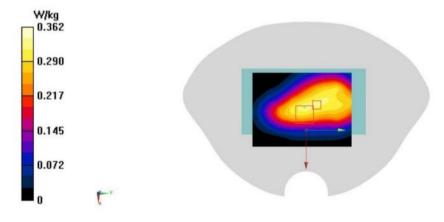
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, LTE Band71 (0) Frequency: 683 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.325 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 21.74 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 0.747 W/kg SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.212 W/kg Maximum value of SAR (measured) = 0.362 W/kg



N25 Head

Date: 10/30/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 1882.5 MHz; $\sigma = 1.447$ S/m; $\varepsilon_r = 41.255$; $\rho = 1000$ kg/m³

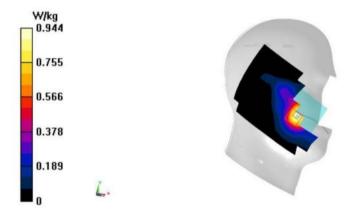
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 - SN7673 ConvF(8.1, 8.1, 8.1);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.964 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 5.061 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 1.10 W/kg SAR(1 g) = 0.723 W/kg; SAR(10 g) = 0.429 W/kg Maximum value of SAR (measured) = 0.944 W/kg



N25 Body

Date: 10/30/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 1882.5 MHz; $\sigma = 1.447$ S/m; $\varepsilon_r = 41.255$; $\rho = 1000$ kg/m³

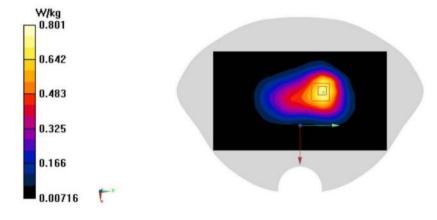
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 - SN7673 ConvF(8.1, 8.1, 8.1);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.751 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 18.81 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 0.974 W/kg SAR(1 g) = 0.570 W/kg; SAR(10 g) = 0.351 W/kg Maximum value of SAR (measured) = 0.801 W/kg



N41 Head

Date: 11/5/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 2592.99 MHz; $\sigma = 2.054$ S/m; $\varepsilon_r = 40.55$; $\rho = 1000$ kg/m³

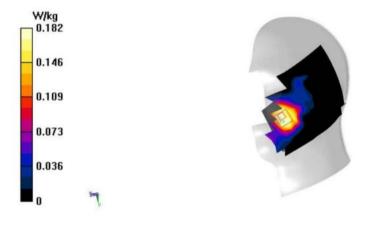
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G n41 (0) Frequency: 2592.99 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(7.44, 7.44, 7.44);

Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.200 W/kg

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 1.209 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 0.232 W/kg SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.069 W/kg Maximum value of SAR (measured) = 0.182 W/kg



N41 Body

Date: 11/5/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 2501.01 MHz; $\sigma = 1.909 \text{ S/m}$; $\varepsilon_r = 40.701$; $\rho = 1000 \text{ kg/m}^3$

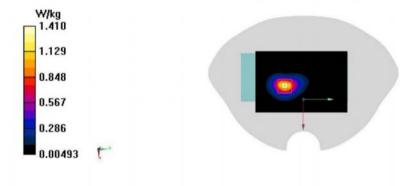
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G n41 (0) Frequency: 2501.01 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(7.6, 7.6, 7.6);

Area Scan (81x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 1.32 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 11.66 V/m; Power Drift = -0.13 dB Peak SAR (extrapolated) = 1.75 W/kg SAR(1 g) = 0.840 W/kg; SAR(10 g) = 0.384 W/kg Maximum value of SAR (measured) = 1.41 W/kg



N66 Head

Date: 10/28/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: f = 1745 MHz; $\sigma = 1.356$ S/m; $\varepsilon_r = 41.473$; $\rho = 1000$ kg/m³

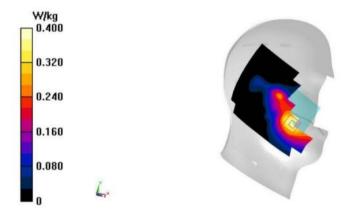
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 - SN7673 ConvF(8.45, 8.45, 8.45);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.396 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mmReference Value = 6.155 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 0.479 W/kg SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.202 W/kg Maximum value of SAR (measured) = 0.400 W/kg



N66 Body

Date: 10/28/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: f = 1745 MHz; $\sigma = 1.356$ S/m; $\varepsilon_r = 41.473$; $\rho = 1000$ kg/m³

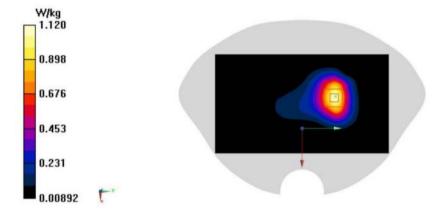
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 - SN7673 ConvF(8.45, 8.45, 8.45);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 1.10 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 12.74 V/m; Power Drift = -0.10 dB Peak SAR (extrapolated) = 1.36 W/kg SAR(1 g) = 0.786 W/kg; SAR(10 g) = 0.464 W/kg Maximum value of SAR (measured) = 1.12 W/kg



N71 Head

Date: 10/22/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (extrapolated): f = 680.5 MHz; $\sigma = 0.811$ S/m; $\varepsilon_r = 44.35$; $\rho = 1000$ kg/m³

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

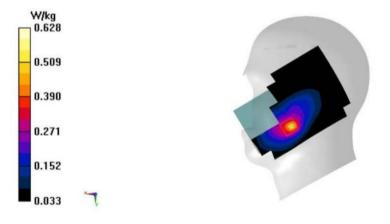
Communication System: UID 0, 5G NR (0) Frequency: 680.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.520 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.012 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.751 W/kg SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.238 W/kg

Maximum value of SAR (measured) = 0.628 W/kg



N71 Body

Date: 10/22/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (extrapolated): f = 680.5 MHz; $\sigma = 0.811$ S/m; $\varepsilon_r = 44.35$; $\rho = 1000$ kg/m³

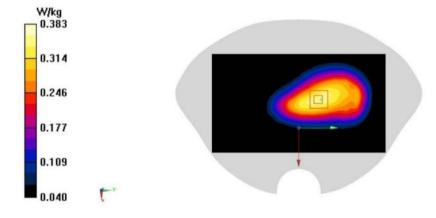
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G NR (0) Frequency: 680.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.353 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 22.39 V/m; Power Drift = -0.09 dB Peak SAR (extrapolated) = 0.437 W/kg SAR(1 g) = 0.304 W/kg; SAR(10 g) = 0.224 W/kg Maximum value of SAR (measured) = 0.383 W/kg



WIFI2.4G Head

Date: 12/2/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 2412 MHz; $\sigma = 1.822$ S/m; $\varepsilon_r = 40.898$; $\rho = 1000$ kg/m³

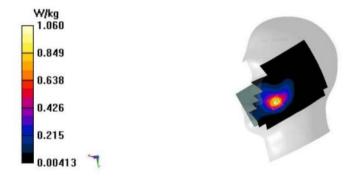
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WLan 2450 (0) Frequency: 2412 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(7.6, 7.6, 7.6);

Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 1.01 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 1.564 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 1.33 W/kg SAR(1 g) = 0.638 W/kg; SAR(10 g) = 0.294 W/kg Maximum value of SAR (measured) = 1.06 W/kg



WIFI2.4G Body

Date: 12/2/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): f = 2412 MHz; $\sigma = 1.822$ S/m; $\varepsilon_r = 40.898$; $\rho = 1000$ kg/m³

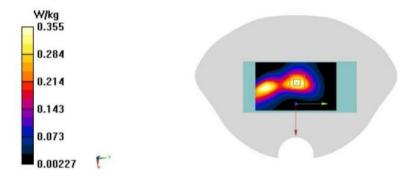
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WLan 2450 (0) Frequency: 2412 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(7.6, 7.6, 7.6);

Area Scan (61x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.370 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 10.68 V/m; Power Drift = 0.15 dB Peak SAR (extrapolated) = 0.435 W/kg SAR(1 g) = 0.229 W/kg; SAR(10 g) = 0.119 W/kg Maximum value of SAR (measured) = 0.355 W/kg



WIFI5G Head

Date: 12/2/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: f = 5220 MHz; σ = 4.685 S/m; ε_r = 35.24; ρ = 1000 kg/m³

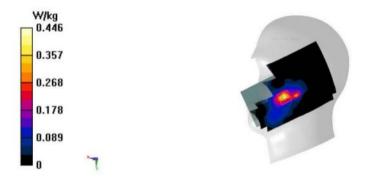
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 - SN7673 ConvF(5.18, 5.18, 5.18);

Area Scan (121x211x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 0.393 W/kg

Zoom Scan (9x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 0 V/m; Power Drift = 0.19 dB Peak SAR (extrapolated) = 0.750 W/kg SAR(1 g) = 0.186 W/kg; SAR(10 g) = 0.060 W/kg Maximum value of SAR (measured) = 0.446 W/kg



WIFI5G Body

Date: 12/2/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: f = 5300 MHz; $\sigma = 4.767 \text{ S/m}$; $\varepsilon_r = 35.158$; $\rho = 1000 \text{ kg/m}^3$

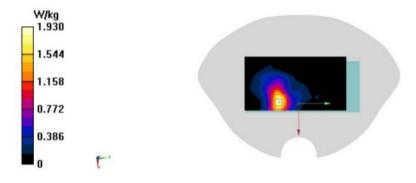
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WLan 11a (0) Frequency: 5300 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(5.18, 5.18, 5.18);

Area Scan (81x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 2.00 W/kg

Zoom Scan (9x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 4.408 V/m; Power Drift = 0.16 dB Peak SAR (extrapolated) = 3.31 W/kg SAR(1 g) = 0.839 W/kg; SAR(10 g) = 0.326 W/kg Maximum value of SAR (measured) = 1.93 W/kg



BT Head

Date: 12/2/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: f = 2441 MHz; $\sigma = 1.901$ S/m; $\varepsilon_r = 42.456$; $\rho = 1000$ kg/m³

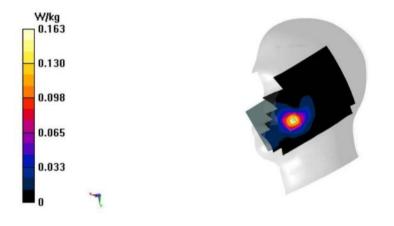
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 - SN7673 ConvF(7.6, 7.6, 7.6);

Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.155 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 0 V/m; Power Drift = 0 dB Peak SAR (extrapolated) = 0.202 W/kg SAR(1 g) = 0.098 W/kg; SAR(10 g) = 0.045 W/kg Maximum value of SAR (measured) = 0.163 W/kg



BT Body

Date: 12/2/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: f = 2441 MHz; $\sigma = 1.901$ S/m; $\varepsilon_r = 42.456$; $\rho = 1000$ kg/m³

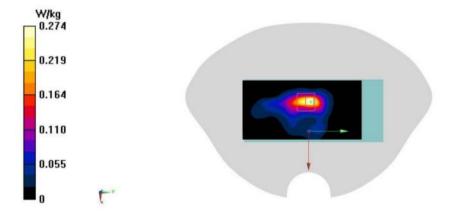
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 - SN7673 ConvF(7.6, 7.6, 7.6);

Area Scan (61x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.317 W/kg

Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 5.141 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.426 W/kg SAR(1 g) = 0.146 W/kg; SAR(10 g) = 0.062 W/kg Maximum value of SAR (measured) = 0.274 W/kg



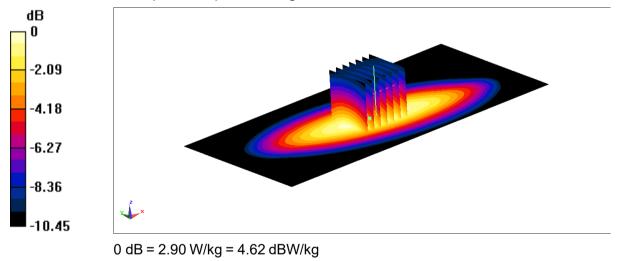
ANNEX B SYSTEM VALIDATION RESULTS

750 MHz

Date: 2024/10/22 Electronics: DAE4 Sn1331 Medium: H700-6000M Medium parameters used: f = 750 MHz; σ =0.8411 mho/m; ϵ r =44.15; ρ = 1000 kg/m3 Ambient Temperature: 22.3oC Liquid Temperature: 22.5oC Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1 Probe: EX3DV4 – SN7673 ConvF(10.45, 10.45, 10.45)

System Validation / Area Scan (51x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 2.84 W/kg

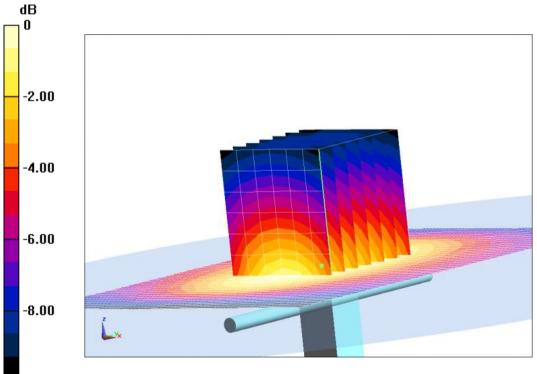
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value =53.68 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 3.38 W/kg SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.45 W/kg Maximum value of SAR (measured) = 2.90 W/kg



Date: 2024/10/24 Electronics: DAE4 Sn1331 Medium: H700-6000M Medium parameters used: f = 835 MHz; σ =0.8757 mho/m; ϵ r = 43.81; ρ = 1000 kg/m3 Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1 Probe: EX3DV4 –SN7673 ConvF(10.45, 10.45, 10.45)

System Validation / Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 3.4 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value =57.74 V/m; Power Drift = 0.19 dB Peak SAR (extrapolated) = 3.71 W/kg SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.60 W/kg Maximum value of SAR (measured) = 3.32 W/kg



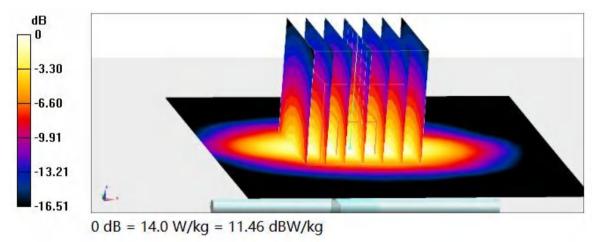
-10.00

0 dB = 3.32 W/kg = 5.21 dB W/kg

Date: 2024/10/28 Electronics: DAE4 Sn1331 Medium: H700-6000M Medium parameters used: f = 1750 MHz; σ =1.358 mho/m; ϵ r = 41.46; ρ = 1000 kg/m3 Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1 Probe: EX3DV4 –SN7673 ConvF(8.45, 8.45, 8.45)

System Validation / Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 13.6 W/kg

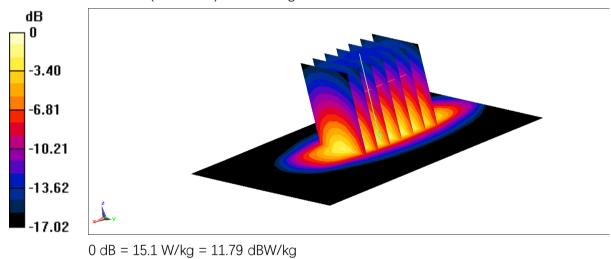
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value =97.06 V/m; Power Drift = -0.12 dB Peak SAR (extrapolated) = 16.8 W/kg SAR(1 g) = 9.21 W/kg; SAR(10 g) = 4.86 W/kg Maximum value of SAR (measured) = 14.0 W/kg



Date: 2024/10/30 Electronics: DAE4 Sn1331 Medium: H700-6000M Medium parameters used: f = 1900 MHz; σ =1.46mho/m; ϵ r =41.21; ρ = 1000 kg/m3 Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1 Probe: EX3DV4 –SN7673 ConvF(8.1, 8.1, 8.1)

System Validation / Area Scan (81x191x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 14.9 W/kg

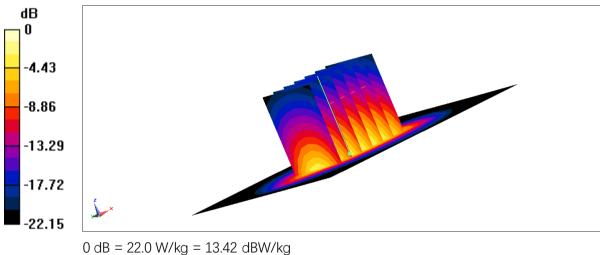
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value =86.24 V/m; Power Drift = -0.11 dB Peak SAR (extrapolated) = 17.8 W/kg SAR(1 g) = 9.72 W/kg; SAR(10 g) = 5.06 W/kg Maximum value of SAR (measured) = 15.1 W/kg



Date: 2024/12/2 Electronics: DAE4 Sn1331 Medium: H700-6000M Medium parameters used: f = 2450 MHz; σ =1.851mho/m; ϵ r = 40.18; ρ = 1000 kg/m3 Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC Communication System: CW Frequency: 2450 MHz Duty Cycle: 1:1 Probe: EX3DV4 –SN7673 ConvF(7.6, 7.6, 7.6)

System Validation / Area Scan (81x191x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 21.0 W/kg

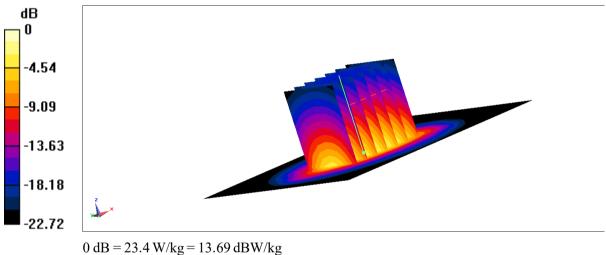
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value =103.3 V/m; Power Drift = -0.11 dB Peak SAR (extrapolated) = 27.2 W/kg SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.25 W/kg Maximum value of SAR (measured) = 22.0 W/kg



Date: 2024/11/5 Electronics: DAE4 Sn1331 Medium: H700-6000M Medium parameters used: f = 2600 MHz; σ =1.977 mho/m; ϵ r = 39.88; ρ = 1000 kg/m3 Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC Communication System: CW Frequency: 2600 MHz Duty Cycle: 1:1 Probe: EX3DV4 –SN7673 ConvF(7.44, 7.44, 7.44)

System Validation / Area Scan (61x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 22.2 W/kg

System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value =101.3 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 28.4 W/kg SAR(1 g) = 14.0 W/kg; SAR(10 g) = 6.30 W/kg Maximum value of SAR (measured) = 23.4 W/kg

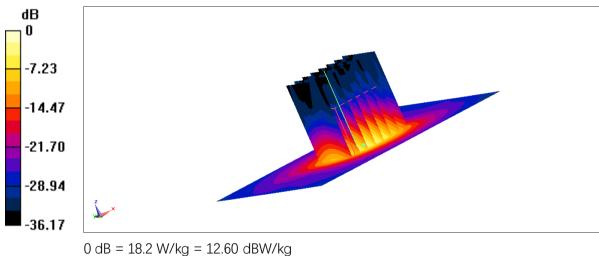


Date: 2024/12/2 Electronics: DAE4 Sn1331 Medium: H700-6000M Medium parameters used: f = 5250 MHz; σ =4.479 S/m; ϵ r = 34.82; ρ = 1000 kg/m3 Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC Communication System: CW Frequency: 5250 MHz Duty Cycle: 1:1 Probe: EX3DV4 –SN7673 ConvF(5.18, 5.18, 5.18)

Area Scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 18.8 W/kg

Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

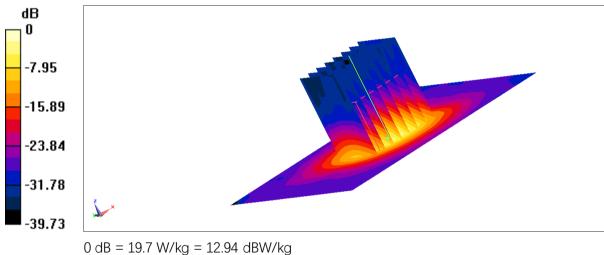
Reference Value =66.54 V/m; Power Drift = 0.16 dB Peak SAR (extrapolated) = 32.1 W/kg SAR(1 g) = 8.10 W/kg; SAR(10 g) = 2.32 W/kg Maximum value of SAR (measured) = 18.2 W/kg



Date: 2024/12/3 Electronics: DAE4 Sn1331 Medium: H700-6000M Medium parameters used: f = 5600 MHz; σ =4.857 S/m; ϵ r = 34.16; ρ = 1000 kg/m3 Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC Communication System: CW Frequency: 5600 MHz Duty Cycle: 1:1 Probe: EX3DV4 –SN7673 ConvF(4.6, 4.6, 4.6)

System Validation /Area Scan (81x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 19.5 W/kg

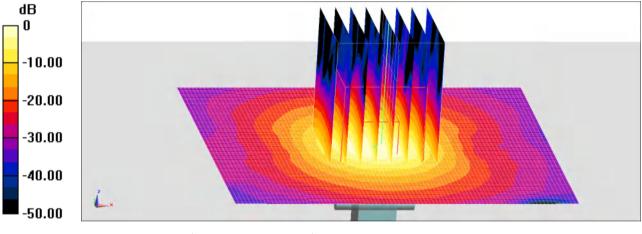
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value =67.71 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 35.0 W/kg SAR(1 g) = 8.27 W/kg; SAR(10 g) = 2.38 W/kg Maximum value of SAR (measured) = 19.7 W/kg



Date: 2024/12/3 Electronics: DAE4 Sn1331 Medium: H700-6000M Medium parameters used: f = 5750 MHz; σ =5.004 S/m; ϵ r = 33.93; ρ = 1000 kg/m3 Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC Communication System: CW Frequency: 5750 MHz Duty Cycle: 1:1 Probe: EX3DV4 –SN7673 ConvF(4.71, 4.71, 4.71)

Area Scan (61x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 20.3 W/kg

Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.2mm Reference Value =65.70 V/m; Power Drift = 0.17 dB Peak SAR (extrapolated) = 36.3 W/kg SAR(1 g) = 8.08 W/kg; SAR(10 g) = 2.35 W/kg Maximum value of SAR (measured) = 21. W/kg

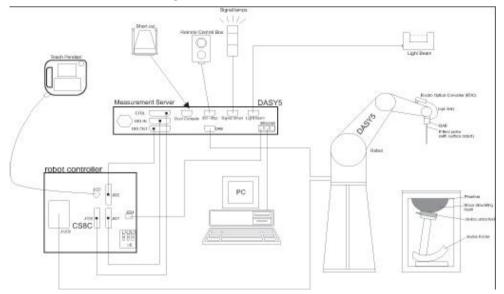


0 dB = 18.9 W/kg = 12.76 dBW/kg

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:SAF	R Dosimetry Testing
	Compliance tests of mobile phones
	Dosimetry in strong gradient fields
Picture C.3E-fiel	d Probe

Picture C.2Near-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

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

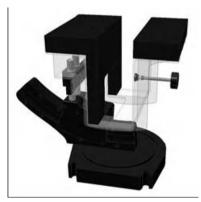
The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of $\pm 20\%$. Accurate device positioning is therefore crucial for 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 & =3 and loss tangent & =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 mmFilling Volume:Approx. 25 litersDimensions:810 x 1000 x 500 mm (H x L x W)Available:Special

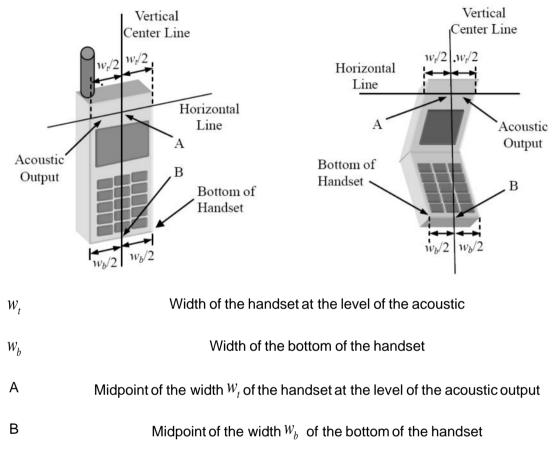


Picture C.8: SAM Twin Phantom

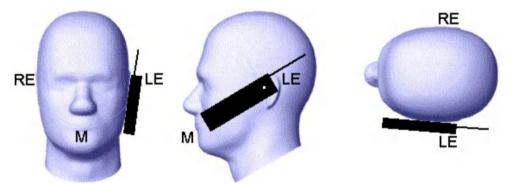
ANNEX D Position of the wireless device in relation to the phantom

D.1 General considerations

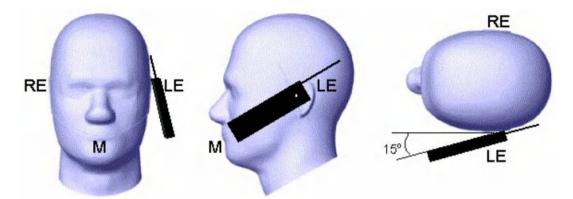
This standard specifies two handset test positions against the head phantom – the "cheek" position and the "tilt" position.



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



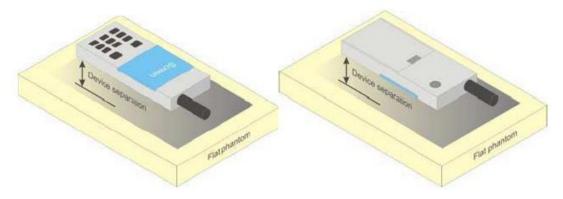
Picture D.2 Cheek position of the wireless device on the left side of SAM



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.

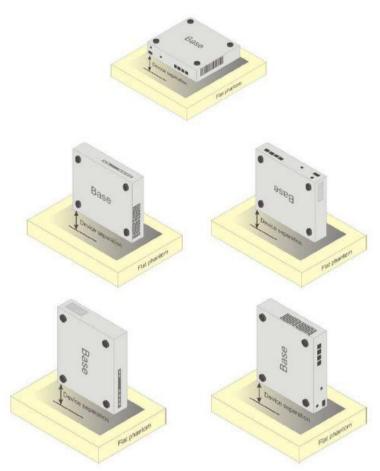


Picture D.4Test positions for body-worn devices

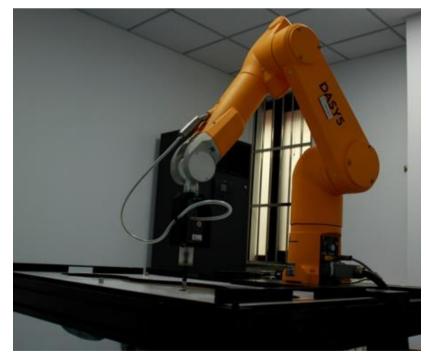
D.3 Desktop device

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. Picture8.5 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	١	١	١	١	١	\		
Salt	1.45	1.4	0.306	0.13	0.06	0.18	١	\		
Preventol	0.1	0.1	١	١	١	١	١	\		
Cellulose	1.0	1.0	\	١	١	١	١	\		
Glycol	١	١	44.452	29.96	41.15	27.22	١	\		
Monobutyl	•									
Diethylenglycol monohexylethe r	١	١	١	١	١	١	17.24	17.24		
Triton X-100	١	١	١	١	١	١	17.24	17.24		
Dielectric	c-11 F	c=55.0	ε=40.0	ε=53.3	ε=39.2	ε=52.7	ε=35.3	ε=48.2		
Parameters	ε=41.5 σ=0.00	ε=55.2 σ=0.97	σ=1.4	σ=1.5	σ=1.8	σ=1.9	σ=5.2	σ=6.0		
Target Value	σ=0.90	0-0.97	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.

Probe SN.	Liquid name	Validation date	Frequency point	Status (OK or Not)					
7673	Head 750MHz	July.30,2024	750 MHz	OK					
7673	Head 900MHz	July.30,2024	900 MHz	OK					
7673	Head 1750MHz	July.30,2024	1750 MHz	OK					
7673	Head 1900MHz	July.30,2024	1900 MHz	OK					
7673	Head 2000MHz	July.30,2024	2000 MHz	OK					
7673	Head 2300MHz	July.30,2024	2300 MHz	OK					
7673	Head 2450MHz	July.30,2024	2450 MHz	OK					
7673	Head 2600MHz	July.30,2024	2600 MHz	OK					
7673	Head 3500MHz	July.30,2024	3500 MHz	OK					
7673	Head 3700MHz	July.30,2024	3700 MHz	OK					
7673	Head 5250MHz	July.30,2024	5250 MHz	OK					
7673	Head 5600MHz	July.30,2024	5600 MHz	OK					
7673	Head 5750MHz	July.30,2024	5750 MHz	OK					

Table F.1: System Validation for 7673

ANNEX G PROBE CALIBRATION CERTIFICATE

Probe 7673 Calibration Certificate

	nup.//w	ww.caict.ac.cn			
Client CTTL	19/3	1.200 20	C	ertificate No: 24.	J02Z000429
CALIBRATION C	ERTIF	ICATE			
		2			
Object		EX3DV4 - SN :	7673		
Calibration Procedure(s)					
		FF-Z11-004-02		Can Beller R	
		Calibration Pro	cedures for Dosimetr	ric E-field Probes	
Calibration date:		July 29, 2024	State State Date	Sall I States	
This calibration Certificate docu					
measurements and the uncertai					
All calibrations have been condu			facility: environment ter	nperature(22±3)°C and hun	hidity<70%.
Calibration Equipment used (M&	TE critical	for calibration)		a constant and a second	
Primary Standards	ID#	Cal Date	e(Calibrated by, Certifica	te No.) Scheduled Cali	bration
				to their conceased ban	oration
Power Meter NRP2	10627		19-Oct-23(CTTL, No.J		Oct-24
Power Meter NRP2 Power sensor NRP8S	10627 10429	7 1	19-Oct-23(CTTL, No.J 19-Oct-23(CTTL, No.J	23X11026) 23X11026)	Oct-24 Oct-24
Power Meter NRP2 Power sensor NRP8S Power sensor NRP8S	10627 10429 10429	7 1 2	19-Oct-23(CTTL, No.J 19-Oct-23(CTTL, No.J 19-Oct-23(CTTL, No.J	23X11026) 23X11026) 23X11026)	Oct-24 Oct-24 Oct-24
Power Meter NRP2 Power sensor NRP8S Power sensor NRP8S Reference 10dBAttenuator	10627 10429 10429 18N50	7 1 2 W-10dB	19-Oct-23(CTTL, No.J 19-Oct-23(CTTL, No.J 19-Oct-23(CTTL, No.J 19-Jan-23(CTTL, No.J	23X11026) 23X11026) 23X11026) 23X1026) 23X00212)	Oct-24 Oct-24 Oct-24 Jan-25
Power Meter NRP2 Power sensor NRP8S Power sensor NRP8S Reference 10dBAttenuator Reference 20dBAttenuator	10627 10429 10429 18N50 18N50	7 1 2 WV-10dB WV-20dB	19-Oct-23(CTTL, No.J 19-Oct-23(CTTL, No.J 19-Oct-23(CTTL, No.J 19-Jan-23(CTTL, No.J 19-Jan-23(CTTL, No.J	23X11026) 23X11026) 23X11026) 23X00212) 23X00211)	Oct-24 Oct-24 Oct-24 Jan-25 Jan-25
Power Meter NRP2 Power sensor NRP8S Power sensor NRP8S Reference 10dBAttenuator Reference 20dBAttenuator Reference Probe EX3DV4	10627 10429 10429 18N50 18N50 SN 73	7 1 2 W-10dB W-20dB 07	19-Oct-23(CTTL, No.J 19-Oct-23(CTTL, No.J 19-Oct-23(CTTL, No.J 19-Jan-23(CTTL, No.J 19-Jan-23(CTTL, No.J 28-May-24(SPEAG, N	23X11026) 23X11026) 23X11026) 23X00212) 23X00212) 23X00211) b.EX-7307_May24)	Oct-24 Oct-24 Oct-24 Jan-25 Jan-25 May-25
Power Meter NRP2 Power sensor NRP8S Power sensor NRP8S Reference 10dBAttenuator Reference 20dBAttenuator Reference Probe EX3DV4 DAE4	10627 10429 10429 18N50 18N50 SN 73 SN 15	7 1 2 W-10dB W-20dB 07	19-Oct-23(CTTL, No.J 19-Oct-23(CTTL, No.J 19-Oct-23(CTTL, No.J 19-Jan-23(CTTL, No.J 19-Jan-23(CTTL, No.J 28-May-24(SPEAG, No.J 24-Aug-23(SPEAG, No.J	23X11026) 23X11026) 23X11026) 23X00212) 23X00212) 23X00211) b.EX-7307_May24) b.DAE4-1555_Aug23)	Oct-24 Oct-24 Oct-24 Jan-25 Jan-25 May-25 Aug-24
Power Meter NRP2 Power sensor NRP8S Power sensor NRP8S Reference 10dBAttenuator Reference 20dBAttenuator Reference Probe EX3DV4 DAE4 Secondary Standards	10627 10429 10429 18N50 18N50 SN 73 SN 15 ID #	7 1 2 WV-10dB WV-20dB 07 55	19-Oct-23(CTTL, No.J 19-Oct-23(CTTL, No.J 19-Oct-23(CTTL, No.J 19-Jan-23(CTTL, No.J 19-Jan-23(CTTL, No.J 28-May-24(SPEAG, No.J 28-May-24(SPEAG, No.J 24-Aug-23(SPEAG, No.J Cal Date(Calibrated by	23X11026) 23X11026) 23X11026) 23X00212) 23X00212) 23X00211) 5.EX-7307_May24) 5.DAE4-1555_Aug23) 7, Certificate No.) Sc	Oct-24 Oct-24 Oct-24 Jan-25 Jan-25 May-25 Aug-24 cheduled Calibration
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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	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).

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DASY/EASY – Parameters of Probe: EX3DV4 – SN:7673

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm(µV/(V/m) ²) ^A	0.62	0.63	0.60	±10.0%
DCP(mV) ^B	109.4	111.6	108.0	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dBõV	C	D dB	VR mV	Unc ^E (<i>k</i> =2)
0 CW	CW	x	0.0	0.0	1.0	0.00	214.8	±2.1%
	Y	0.0	0.0	1.0		218.1		
		Z	0.0	0.0	1.0		207.9	

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.

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DASY/EASY – Parameters of Probe: EX3DV4 – SN:7673

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	10.45	10.45	10.45	0.23	1.09	±12.7%
900	41.5	0.97	10.03	10.03	10.03	0.21	1.24	±12.7%
1450	40.5	1.20	8.74	8.74	8.74	0.18	1.04	±12.7%
1750	40.1	1.37	8.45	8.45	8.45	0.25	1.02	±12.7%
1900	40.0	1.40	8.10	8.10	8.10	0.25	1.04	±12.7%
2000	40.0	1.40	8.15	8.15	8.15	0.26	1.05	±12.7%
2300	39.5	1.67	7.85	7.85	7.85	0.58	0.69	±12.7%
2450	39.2	1.80	7.60	7.60	7.60	0.57	0.71	±12.7%
2600	39.0	1.96	7.44	7.44	7.44	0.64	0.67	±12.7%
3300	38.2	2.71	6.93	6.93	6.93	0.47	0.88	±13.9%
3500	37.9	2.91	6.73	6.73	6.73	0.45	1.00	±13.9%
3700	37.7	3.12	6.48	6.48	6.48	0.35	1.20	±13.9%
3900	37.5	3.32	6.44	6.44	6.44	0.30	1.52	±13.9%
4100	37.2	3.53	6.43	6.43	6.43	0.35	1.25	±13.9%
4200	37.1	3.63	6.33	6.33	6.33	0.30	1.52	±13.9%
4400	36.9	3.84	6.23	6.23	6.23	0.30	1.52	±13.9%
4600	36.7	4.04	6.18	6.18	6.18	0.35	1.40	±13.99
4800	36.4	4.25	6.07	6.07	6.07	0.35	1.55	±13.9%
4950	36.3	4.40	5.74	5.74	5.74	0.35	1.55	±13.9%
5250	35.9	4.71	5.18	5.18	5.18	0.40	1.52	±13.9%
5600	35.5	5.07	4.60	4.60	4.60	0.40	1.52	±13.9%
5750	35.4	5.22	4.71	4.71	4.71	0.40	1.55	±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.

^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 \pm 1% for frequencies below 3 GHz and below \pm 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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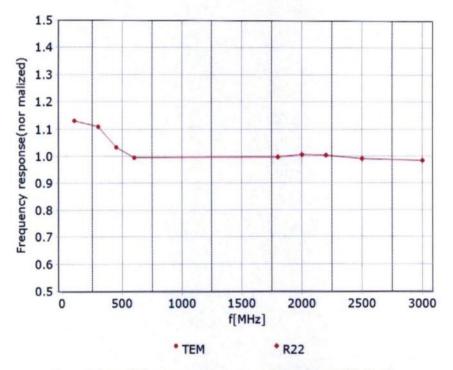
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Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)



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

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