

APPENDIX 2: SAR Measurement data

Appendix 2-1: Evaluation procedure

The SAR evaluation was performed with the following procedure:

- Step 1:** Measurement of the E-field at a fixed location above the central position of flat phantom was used as a reference value for assessing the power drop.
- Step 2:** The SAR distribution at the exposed side of head or body position was measured at a distance of each device from the inner surface of the shell. The area covered the entire dimension of the antenna of platform and suitable horizontal grid spacing of platform. Based on these data, the area of the maximum absorption was determined by splines interpolation.
- Step 3:** Around this point found in the Step 2 (area scan), a volume of more than or equal to 30mm(X axis)×30mm(Y axis)×30mm(Z axis) was assessed by measuring 7×7×7 points (or more) under 3GHz and a volume of more than or equal to 28mm(X axis)×28mm(Y axis)×24mm (Z axis) was assessed by measuring 8×8×7 (ratio step method (*1)) points (or more) for 3-6GHz frequency band.
Any additional peaks found in the Step2 which are within 2dB of limit are repeated with this Step3 (Zoom scan).
On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:
- (1) The data at the surface were extrapolated, since the center of the dipoles is 1mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 2mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
 - (2) The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one-dimensional splines with the "Not a knot"-condition (in x, y and z-directions). The volume was integrated with the trapezoidal-algorithm. One thousand points (10×10×10) were interpolated to calculate the average.
 - (3) All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- Step 4:** Re-measurement of the E-field at the same location as in Step 1 for the assessment of the power drift.
- Step 5:** Repeat Step 1-Step 4 with other condition or/and setup of platform.

*1. Ratio step method parameters used; the first measurement point: "1.4mm" from the phantom surface, the initial grid separation: "1.4mm", subsequent graded grid ratio: "1.4". These parameters comply with the requirement of the KDB 865664 D01 (v01r04) and recommended by Schmid & Partner Engineering AG (DASY5 manual).

Appendix 2-2: Measurement data

Worst reported SAR data plot for 2.4GHz band (Step 1) and 5GHz band (Step 2~4).

Step 1: 2.4GHz band (DTS)

Plot 1a-3: (Body SAR) Right & touch, 11b, 2462 MHz > Worst reported Body-touch SAR(1g, 2.4GHz band)

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11b(1Mbps,DBPSK/DSSS)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2462 MHz; Crest Factor: 1.0

Medium: M2450(1701); Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 2.029 \text{ S/m}$; $\epsilon_r = 50.80$; $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.3, 7.3, 7.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0, 161.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

front&side,touch,body-sar1g/24b10,dss;ch/side&touch,b(1m;set:12),b2462/

Area Scan:96x72,stp12 (9x7x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$; Maximum value of SAR (measured) = 0.252 W/kg

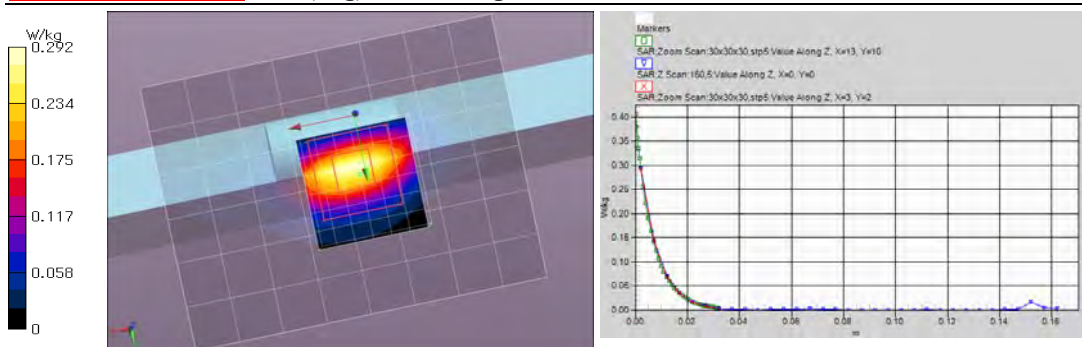
Area Scan:96x72,stp12 (81x61x1): Interpolated grid: $dx=1.200\text{mm}$, $dy=1.200\text{mm}$; Maximum value of SAR (interpolated) = 0.270 W/kg

Z Scan:160,5 (1x1x33): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$; Maximum value of SAR (measured) = 0.294 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$;

Reference Value = 11.81 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 0.292 W/kg; Peak SAR (extrapolated) = 0.405 W/kg

SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.076 W/kg



Remarks: *. Date tested: 2017/01/23; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
*. liquid temperature: 22.4(start)/22.4(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g) / small-SAR(1g)

Plot 1b-8: (Head SAR) Right & touch, 11n(20HT), 2462 MHz > Worst reported Head-touch SAR(1g, 2.4GHz band)

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2462 MHz; Crest Factor: 1.0

Medium: HSL2450(1701); Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.888 \text{ S/m}$; $\epsilon_r = 38.10$; $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.15, 7.15, 7.15); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0, 161.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

touch,front,side/24h16,mode5(ofdm2);ch/side&touch,n20(m0;set:12),h2462/

Area Scan:96x72,stp12 (9x7x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$; Maximum value of SAR (measured) = 0.344 W/kg

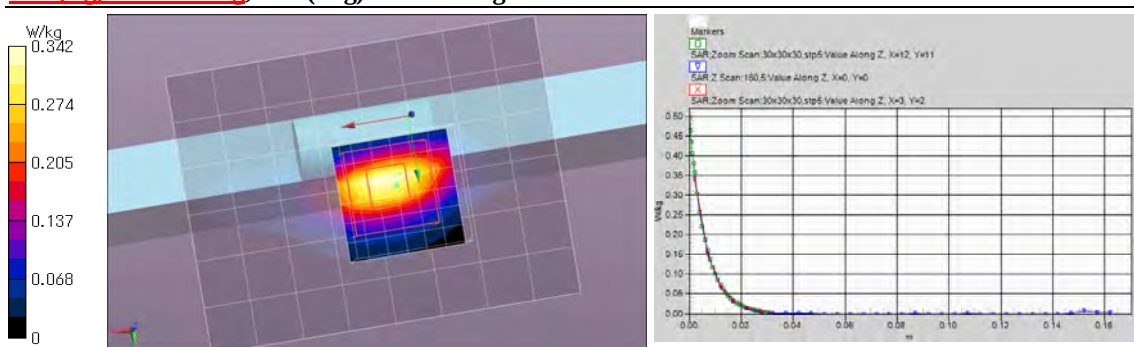
Area Scan:96x72,stp12 (81x61x1): Interpolated grid: $dx=1.200\text{mm}$, $dy=1.200\text{mm}$; Maximum value of SAR (interpolated) = 0.372 W/kg

Z Scan:160,5 (1x1x33): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$; Maximum value of SAR (measured) = 0.341 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$;

Reference Value = 13.55 V/m; Power Drift = -0.03 dB; Maximum value of SAR (measured) = 0.342 W/kg; Peak SAR (extrapolated) = 0.496 W/kg

SAR(1 g) = 0.216 W/kg; SAR(10 g) = 0.088 W/kg



Remarks: *. Date tested: 2017/01/20; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: 24~25 deg.C. / 30~40 %RH,
*. liquid temperature: 23.4(start)/23.4(end)/23.8(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g) / small-SAR(1g)

Appendix 2-2: Measurement data / Worst reported SAR data plot for 2.4GHz band (Step 1) and 5GHz band (Step 2~4), (cont'd)

Step 1: 2.4GHz band (DTS) (cont'd)

Plot 1c-3: (Hand SAR) Back & touch, 11b, 2462 MHz -> Worst reported Hand SAR(10g), 2.4GHz band

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11b(1Mbps,DBPSK/DSSS)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2462 MHz; Crest Factor: 1.0

Medium: M2450(1701); Medium parameters used: $f = 2462$ MHz; $\sigma = 2.029$ S/m; $\epsilon_r = 50.80$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.3, 7.3, 7.3); Calibrated: 2016/03/15;

-Electronics: DAE4 Sn626; Calibrated: 2016/10/13

-Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), 2mm (Mechanical Surface Detection), $z = 1.0, 31.0, 161.0$

-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

back,touch,hand-sar10g/24b3,ch;dss;back&touch,b(1mp12),b2462/

Area Scan:72x84,stp12 (7x8x1): Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured) = 1.37 W/kg

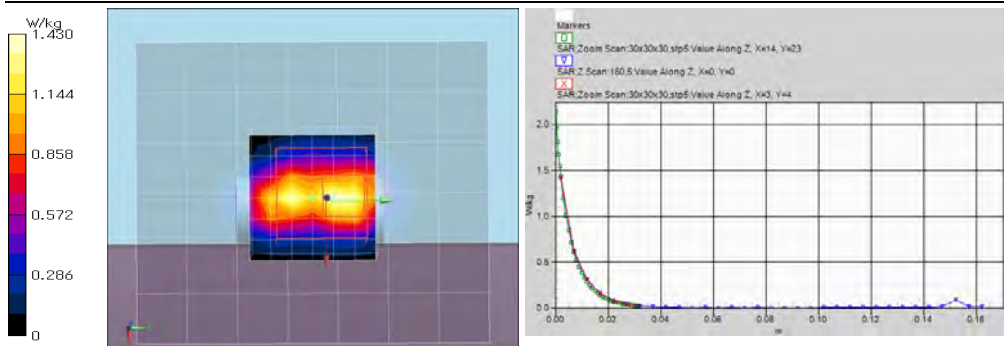
Area Scan:72x84,stp12 (61x71x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated) = 1.82 W/kg

Z Scan:160.5 (1x1x33): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm; Maximum value of SAR (measured) = 1.42 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 24.06 V/m; Power Drift = 0.00 dB; Maximum value of SAR (measured) = 1.43 W/kg; Peak SAR (extrapolated) = 2.14 W/kg

SAR(1 g) = 0.844 W/kg; SAR(10 g) = 0.353 W/kg



Remarks: *. Date tested: 2017/01/23; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
*. liquid temperature: 22.2(start)/22.2(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g) / small-SAR(1g)

Step 2: 5GHz band (UNII)

Plot 2a-10: (Body SAR) Right & touch, 11a, 5180 MHz -> Worst reported Body-touch SAR(1g), 5GHz band

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5180 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5180$ MHz; $\sigma = 5.363$ S/m; $\epsilon_r = 47.39$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15;

-DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0, 156.0$

-Electronics: DAE4 Sn626; Calibrated: 2016/10/13

-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w53(52)/5b20,53b18,model;side&d0,a(6m),b5180/

Area:80x70,stp10 (9x8x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.610 W/kg

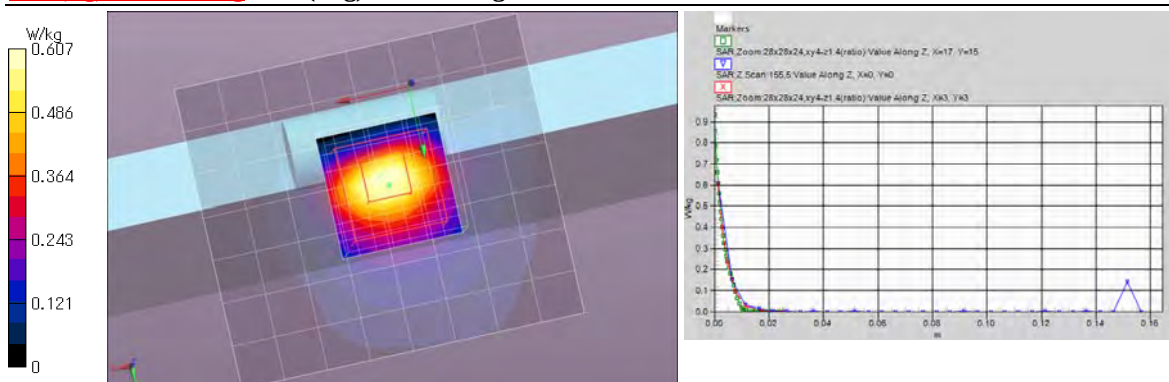
Area:80x70,stp10 (81x71x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.708 W/kg

Z Scan:155.5 (1x1x32): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm; Maximum value of SAR (measured) = 0.607 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 12.09 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 0.607 W/kg; Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.092 W/kg



Remarks: *. Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.0(start)/23.0(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g) / small-SAR(1g)

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Appendix 2-2: Measurement data / Worst reported SAR data plot for 2.4GHz band (Step 1) and 5GHz band (Step 2~4), (cont'd)

Step 2: 5GHz band (UNII) (cont'd)

Plot 2b-4: (Head SAR) Right & touch, 11n(40HT), 5190 MHz-> Worst reported Head-touch SAR(1g), 5GHz band

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5190 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5190$ MHz; $\sigma = 4.454$ S/m; $\epsilon_r = 35.86$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.67, 4.67, 4.67); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w52,w53,side,front/5h38,53h8,h5190,mode3/bw40;ch/side&d0,n40(m0)

Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.709 W/kg

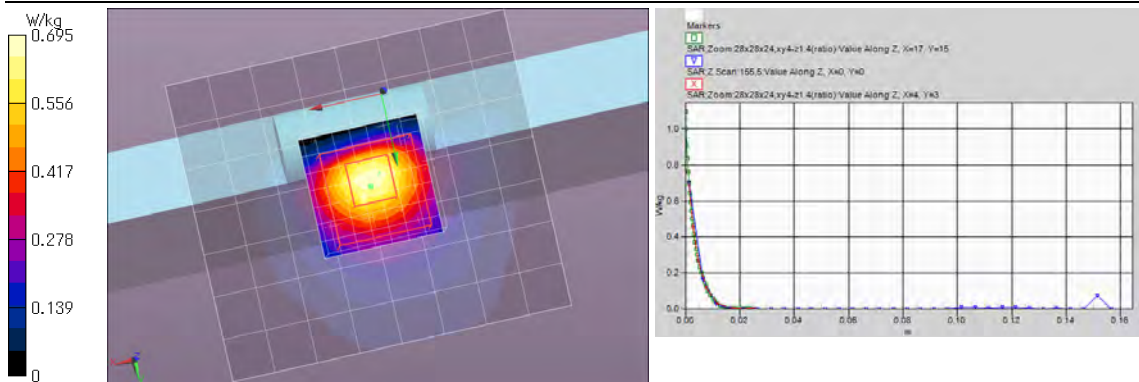
Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.897 W/kg

Z Scan:155.5 (1x1x32): Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 0.702 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 13.57 V/m; Power Drift = -0.08 dB; Maximum value of SAR (measured) = 0.695 W/kg; Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.313 W/kg; SAR(10 g) = 0.108 W/kg



Remarks: * Date tested: 2017/01/31; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (30~40) %RH,
* liquid temperature: 22.2(start)/22.2(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g)/small-SAR(1g)

Plot 3c-7: (Hand SAR(10g)) Back & touch, 11a, 5500 MHz-> Worst reported Hand SAR(10g), 5GHz band

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5500 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5500$ MHz; $\sigma = 5.799$ S/m; $\epsilon_r = 46.78$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0, 156.0
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

hand-sar(10g),w56,back/5b40,56b8,mode1;ch/back&d0,a(6m),b5500/

Area:80x90,stp10 (9x10x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 11.1 W/kg

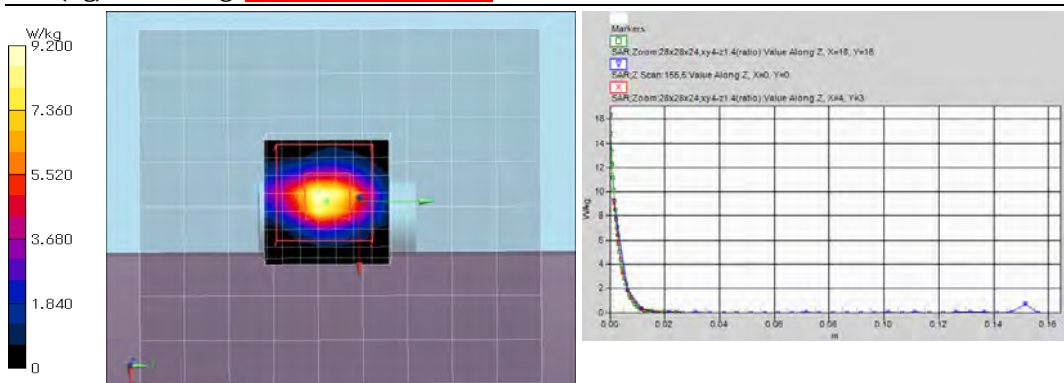
Area:80x90,stp10 (81x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 12.2 W/kg

Z Scan:155.5 (1x1x32): Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 9.24 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 48.64 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 9.20 W/kg; Peak SAR (extrapolated) = 16.3 W/kg

SAR(1 g) = 3.42 W/kg; SAR(10 g) = 0.792 W/kg



Remarks: * Date tested: 2017/01/18; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* liquid temperature: 23.0(start)/23.0(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g)/small-SAR(1g)

Appendix 2-2: Measurement data (cont'd)

Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4).

Step 1: 2.4GHz band (DTS)

Plot 1a-1: (Body SAR) Right & touch, 11b, 2412 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11b(1Mbps,DBPSK/DSSS)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2412 MHz; Crest Factor: 1.0

Medium: M2450(1701); Medium parameters used: $f = 2412$ MHz; $\sigma = 1.962$ S/m; $\epsilon_r = 50.94$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.3, 7.3, 7.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0, 161.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

front&side,touch,body-sar1g/24b8,dsss;side&touch,b(1m,set:12),b2412/

Area Scan:120x84,stp12 (11x8x1): Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured) = 0.255 W/kg

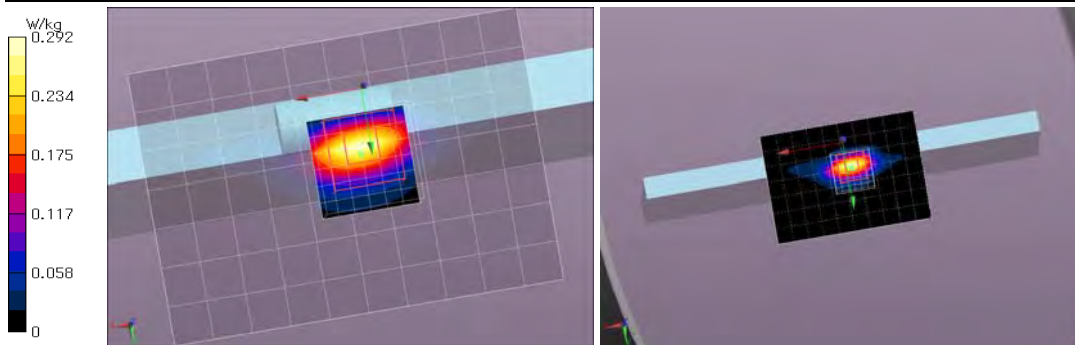
Area Scan:120x84,stp12 (101x71x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated) = 0.278 W/kg

Z Scan:160,5 (1x1x33): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm; Maximum value of SAR (measured) = 0.292 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 11.97 V/m; Power Drift = -0.05 dB; Maximum value of SAR (measured) = 0.294 W/kg; Peak SAR (extrapolated) = 0.400 W/kg

SAR(1 g) = 0.185 W/kg; SAR(10 g) = 0.077 W/kg



Remarks: * Date tested: 2017/01/23; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
* liquid temperature: 22.3(start)/22.3(end)/22.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 1a-2: (Body SAR) Right & touch, 11b, 2437 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11b(1Mbps,DBPSK/DSSS)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2437 MHz; Crest Factor: 1.0

Medium: M2450(1701); Medium parameters used: $f = 2437$ MHz; $\sigma = 1.992$ S/m; $\epsilon_r = 50.90$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.3, 7.3, 7.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

front&side,touch,body-sar1g/24b9,dsss;ch&side&touch,b(1m,set:12),b2437/

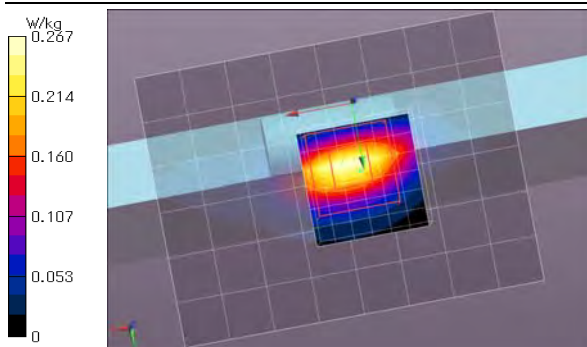
Area Scan:96x72,stp12 (9x7x1): Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured) = 0.235 W/kg

Area Scan:96x72,stp12 (81x61x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated) = 0.263 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 11.39 V/m; Power Drift = -0.03 dB; Maximum value of SAR (measured) = 0.267 W/kg; Peak SAR (extrapolated) = 0.369 W/kg

SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.070 W/kg



Remarks: * Date tested: 2017/01/23; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
* liquid temperature: 22.3(start)/22.4(end)/22.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 1: 2.4GHz band (DTS) (cont'd)

Plot 1a-4: (Body SAR) Front (Patient side) & touch, 11b, 2412 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11b(1Mbps,DBPSK/DSSS)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2412 MHz; Crest Factor: 1.0

Medium: M2450(1701); Medium parameters used: $f = 2412$ MHz; $\sigma = 1.962$ S/m; $\epsilon_r = 50.94$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.3, 7.3, 7.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

front&side,touch,body-sar1g/24b7,dsss,front&touch,b(1m,set:12),b2412/

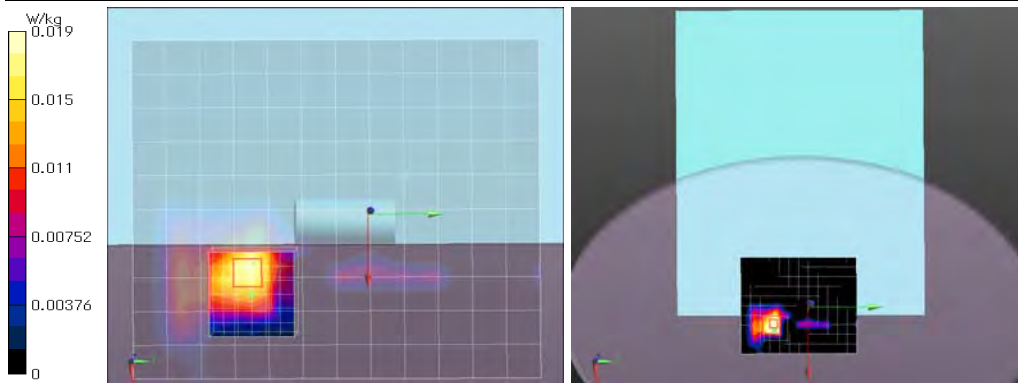
Area Scan:120x150,stp12 (11x13x1): Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured) = 0.0184 W/kg

Area Scan:120x150,stp12 (101x121x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated) = 0.0368 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 2.728 V/m; Power Drift = -0.20 dB; Maximum value of SAR (measured) = 0.0188 W/kg; Peak SAR (extrapolated) = 0.0640 W/kg

SAR(1 g) = 0.012 W/kg; SAR(10 g) = 0.00575 W/kg



Remarks: * . Date tested: 2017/01/23; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* . liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
* . liquid temperature: 22.3(start)/22.3(end)/22.4(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g) /small=SAR(1g)

Plot 1a-5: (Body SAR) Right & touch, 11g, 2412 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11g(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2412 MHz; Crest Factor: 1.0

Medium: M2450(1701); Medium parameters used: $f = 2412$ MHz; $\sigma = 1.962$ S/m; $\epsilon_r = 50.94$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.3, 7.3, 7.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

front&side,touch,body-sar1g/24b11,ofdm1;side&touch,g(6m,set:12),b2412/

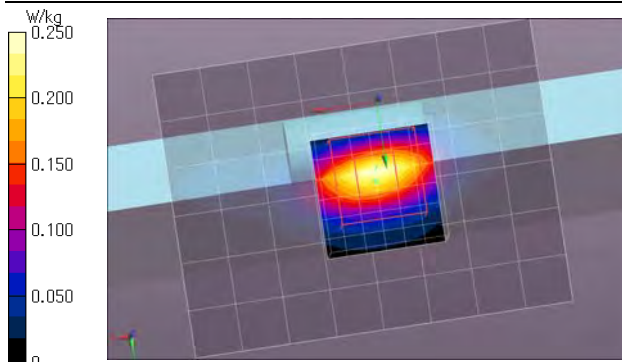
Area Scan:96x72,stp12 (9x7x1): Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured) = 0.210 W/kg

Area Scan:96x72,stp12 (81x61x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated) = 0.219 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 11.09 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 0.250 W/kg; Peak SAR (extrapolated) = 0.339 W/kg

SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.065 W/kg



Remarks: * . Date tested: 2017/01/23; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* . liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
* . liquid temperature: 22.4(start)/22.4(end)/22.4(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g) /small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 1: 2.4GHz band (DTS) (cont'd)

Plot 1a-6: (Body SAR) Right & touch, 11n(20HT), 2412 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2412 MHz; Crest Factor: 1.0

Medium: M2450(1701); Medium parameters used: $f = 2412$ MHz; $\sigma = 1.962$ S/m; $\epsilon_r = 50.94$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.3, 7.3, 7.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

front&side,touch,body-sar1g/24h12,ofdm2;side&touch,n20(m0,set:12),b2412/

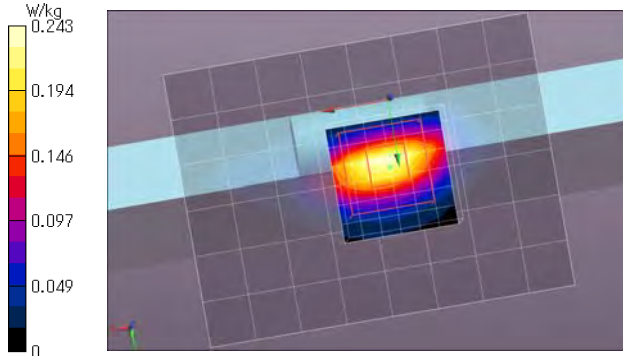
Area Scan:96x72,stp12 (9x7x1): Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured) = 0.201 W/kg

Area Scan:96x72,stp12 (81x61x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated) = 0.228 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 11.31 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 0.243 W/kg; Peak SAR (extrapolated) = 0.341 W/kg

SAR(1 g) = 0.156 W/kg; SAR(10 g) = 0.064 W/kg



Remarks: * . Date tested: 2017/01/23; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* . liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
* . liquid temperature: 22.4(start)/22.4(end)/22.4(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 1a-7: (Body SAR) Right & touch, 11n(40HT), 2422 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2422 MHz; Crest Factor: 1.0

Medium: M2450(1701); Medium parameters used: $f = 2422$ MHz; $\sigma = 1.976$ S/m; $\epsilon_r = 50.89$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.3, 7.3, 7.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

front&side,touch,body-sar1g/24h13,ofdm3-bw40;side&touch,n40(m0,set:11),b2422/

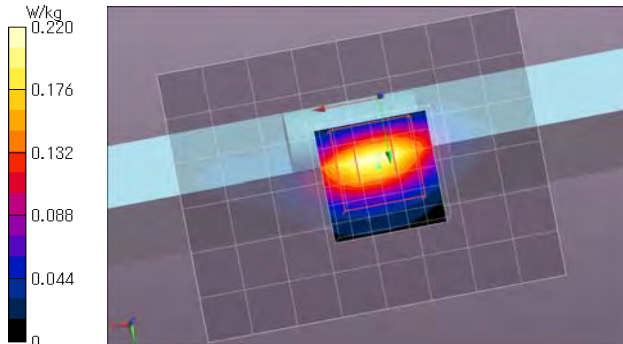
Area Scan:96x72,stp12 (9x7x1): Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured) = 0.187 W/kg

Area Scan:96x72,stp12 (81x61x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated) = 0.205 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 10.41 V/m; Power Drift = -0.03 dB; Maximum value of SAR (measured) = 0.220 W/kg; Peak SAR (extrapolated) = 0.305 W/kg

SAR(1 g) = 0.139 W/kg; SAR(10 g) = 0.057 W/kg



Remarks: * . Date tested: 2017/01/23; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* . liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
* . liquid temperature: 22.4(start)/22.4(end)/22.4(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 1: 2.4GHz band (DTS) (cont'd)

Plot 1b-1: (Head SAR) Right & touch, 11b, 2412 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11b(1Mbps,DBPSK/DSSS)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2412 MHz; Crest Factor: 1.0

Medium: HSL2450(1701); Medium parameters used: $f = 2412$ MHz; $\sigma = 1.823$ S/m; $\epsilon_r = 38.34$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.15, 7.15, 7.15); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 31.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

touch,front,side/24h9,model1(dss);side&touch,b(1m,set:12),h2412/

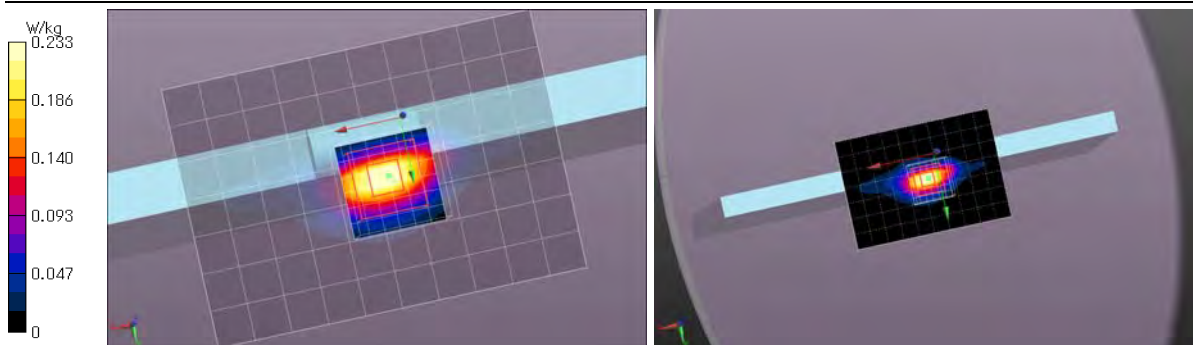
Area Scan:120x84,stp12 (11x8x1): Measurement grid: dx=12mm, dy=12mm; Maximum value of SAR (measured) = 0.171 W/kg

Area Scan:120x84,stp12 (101x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm; Maximum value of SAR (interpolated) = 0.239 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Reference Value = 12.12 V/m; Power Drift = -0.07 dB; Maximum value of SAR (measured) = 0.233 W/kg; Peak SAR (extrapolated) = 0.366 W/kg

SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.065 W/kg



Remarks: * . Date tested: 2017/01/20; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* . liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: 24~25 deg.C. / 30~40 %RH,
* . liquid temperature: 23.5(start)/23.4(end)/23.8(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 1b-2: (Head SAR) Right & touch, 11b, 2437 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11b(1Mbps,DBPSK/DSSS)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2437 MHz; Crest Factor: 1.0

Medium: HSL2450(1701); Medium parameters used: $f = 2437$ MHz; $\sigma = 1.859$ S/m; $\epsilon_r = 38.21$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.15, 7.15, 7.15); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 31.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

touch,front,side/24h11,model1(dss);ch,side&touch,b(1m,set:12),h2437/

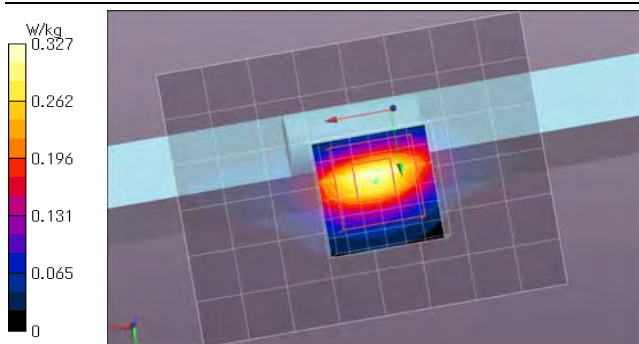
Area Scan:96x72,stp12 (9x7x1): Measurement grid: dx=12mm, dy=12mm; Maximum value of SAR (measured) = 0.327 W/kg

Area Scan:96x72,stp12 (81x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm; Maximum value of SAR (interpolated) = 0.345 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Reference Value = 13.38 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 0.327 W/kg; Peak SAR (extrapolated) = 0.469 W/kg

SAR(1 g) = 0.205 W/kg; SAR(10 g) = 0.083 W/kg



Remarks: * . Date tested: 2017/01/20; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* . liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: 24~25 deg.C. / 30~40 %RH,
* . liquid temperature: 23.4(start)/23.3(end)/23.8(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 1: 2.4GHz band (DTS) (cont'd)

Plot 1b-3: (Head SAR) Right & touch, 11b, 2462 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11b(1Mbps,DBPSK/DSSS)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2462 MHz; Crest Factor: 1.0

Medium: HSL2450(1701); Medium parameters used: $f = 2462$ MHz; $\sigma = 1.888$ S/m; $\epsilon_r = 38.10$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.15, 7.15, 7.15); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

touch,front,side/24h10,model1(dss);ch/side&touch,b(1m;set:12),h2462/

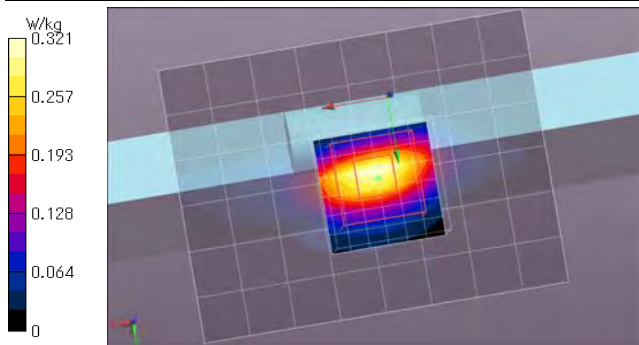
Area Scan:96x72,stp12 (9x7x1): Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured) = 0.326 W/kg

Area Scan:96x72,stp12 (81x61x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated) = 0.339 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 13.22 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 0.321 W/kg; Peak SAR (extrapolated) = 0.462 W/kg

SAR(1 g) = 0.201 W/kg; SAR(10 g) = 0.082 W/kg



Remarks: * Date tested: 2017/01/20; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: 24~25 deg.C. / 30~40 %RH,
* liquid temperature: 23.4(start)/23.4(end)/23.8(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big-SAR(10g)/small-SAR(1g)

Plot 1b-4: (Head SAR) Front (Patient side) & touch, 11b, 2412 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11b(1Mbps,DBPSK/DSSS)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2412 MHz; Crest Factor: 1.0

Medium: HSL2450(1701); Medium parameters used: $f = 2412$ MHz; $\sigma = 1.823$ S/m; $\epsilon_r = 38.34$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.15, 7.15, 7.15); Calibrated: 2016/03/15; -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

touch,front,side/24h8,fcc,model1(dss),front&touch,b(1m;set:12),h2412/

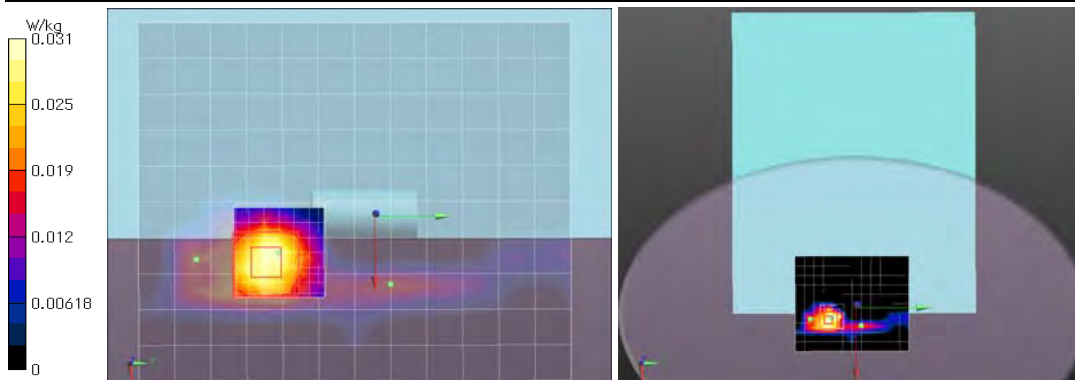
Area Scan:120x150,stp12 (11x13x1): Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured) = 0.0266 W/kg

Area Scan:120x150,stp12 (101x121x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated) = 0.0342 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 4.109 V/m; Power Drift = -0.07 dB; Maximum value of SAR (measured) = 0.0309 W/kg; Peak SAR (extrapolated) = 0.108 W/kg

SAR(1 g) = 0.021 W/kg; SAR(10 g) = 0.00991 W/kg



Remarks: * Date tested: 2017/01/20; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: 24~25 deg.C. / 30~40 %RH,
* liquid temperature: 23.6(start)/23.5(end)/23.8(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big-SAR(10g)/small-SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 1: 2.4GHz band (DTS) (cont'd)

Plot 1b-5: (Head SAR) Right & touch, 11g, 2412 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11g(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2412 MHz; Crest Factor: 1.0

Medium: HSL2450(1701); Medium parameters used: $f = 2412$ MHz; $\sigma = 1.823$ S/m; $\epsilon_r = 38.34$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.15, 7.15, 7.15); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 31.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

touch,front,side/24h12,mode2(ofdm1);side&touch,g(6m,set:12),h2412/

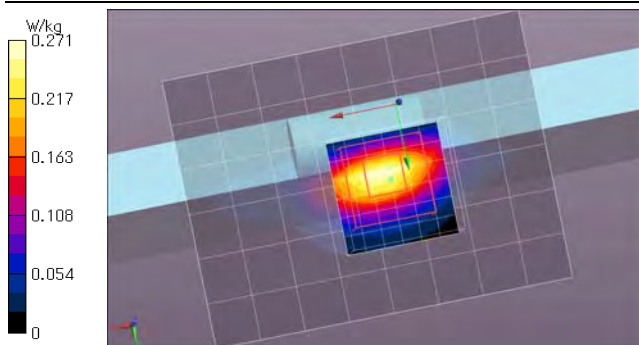
Area Scan:96x72,stp12 (9x7x1): Measurement grid: dx=12mm, dy=12mm; Maximum value of SAR (measured) = 0.265 W/kg

Area Scan:96x72,stp12 (81x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm; Maximum value of SAR (interpolated) = 0.288 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Reference Value = 12.19 V/m; Power Drift = -0.01 dB; Maximum value of SAR (measured) = 0.271 W/kg; Peak SAR (extrapolated) = 0.388 W/kg

SAR(1 g) = 0.171 W/kg; SAR(10 g) = 0.070 W/kg



Remarks: *. Date tested: 2017/01/20; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: 24~25 deg.C. / 30~40 %RH,
*. liquid temperature: 23.3(start)/23.3(end)/23.8(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 1b-6: (Head SAR) Right & touch, 11n(20HT), 2412 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2412 MHz; Crest Factor: 1.0

Medium: HSL2450(1701); Medium parameters used: $f = 2412$ MHz; $\sigma = 1.823$ S/m; $\epsilon_r = 38.34$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.15, 7.15, 7.15); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 31.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

touch,front,side/24h13,mode3(ofdm2);side&touch,n20(m0,set:12),h2412/

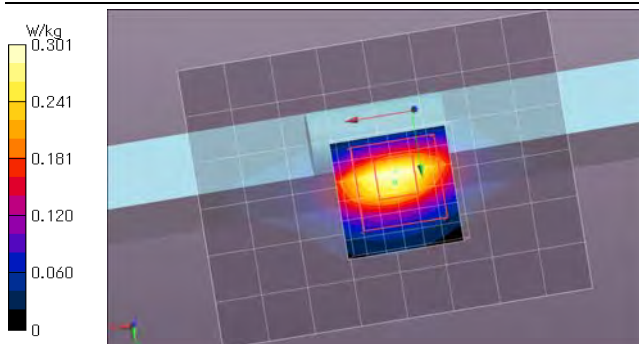
Area Scan:96x72,stp12 (9x7x1): Measurement grid: dx=12mm, dy=12mm; Maximum value of SAR (measured) = 0.309 W/kg

Area Scan:96x72,stp12 (81x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm; Maximum value of SAR (interpolated) = 0.322 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Reference Value = 13.03 V/m; Power Drift = -0.01 dB; Maximum value of SAR (measured) = 0.301 W/kg; Peak SAR (extrapolated) = 0.429 W/kg

SAR(1 g) = 0.190 W/kg; SAR(10 g) = 0.078 W/kg



Remarks: *. Date tested: 2017/01/20; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: 24~25 deg.C. / 30~40 %RH,
*. liquid temperature: 23.3(start)/23.4(end)/23.8(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 1: 2.4GHz band (DTS) (cont'd)

Plot 1b-7: (Head SAR) Right & touch, 11n(20HT), 2437 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2437 MHz; Crest Factor: 1.0

Medium: HSL2450(1701); Medium parameters used: $f = 2437$ MHz; $\sigma = 1.859$ S/m; $\epsilon_r = 38.21$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.15, 7.15, 7.15); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 31.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

touch,front,side/24h15,mode5(ofdm2);ch/side&touch,n20(m0,set:12),h2437/

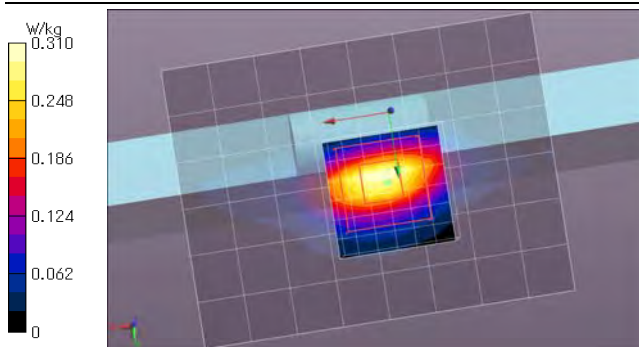
Area Scan:96x72,stp12 (9x7x1): Measurement grid: dx=12mm, dy=12mm; Maximum value of SAR (measured) = 0.311 W/kg

Area Scan:96x72,stp12 (81x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm; Maximum value of SAR (interpolated) = 0.330 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Reference Value = 13.09 V/m; Power Drift = -0.01 dB; Maximum value of SAR (measured) = 0.310 W/kg; Peak SAR (extrapolated) = 0.450 W/kg

SAR(1 g) = 0.196 W/kg; SAR(10 g) = 0.080 W/kg



Remarks: *. Date tested: 2017/01/20; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: 24~25 deg.C. / 30~40 %RH,
*. liquid temperature: 23.4(start)/23.4(end)/23.8(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 1b-9: (Head SAR) Right & touch, 11n(40HT), 2422 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2422 MHz; Crest Factor: 1.0

Medium: HSL2450(1701); Medium parameters used: $f = 2422$ MHz; $\sigma = 1.839$ S/m; $\epsilon_r = 38.24$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.15, 7.15, 7.15); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 31.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

touch,front,side/24h14,mode4(ofdm3,bw40);side&touch,n40(m0,set:11),h2422/

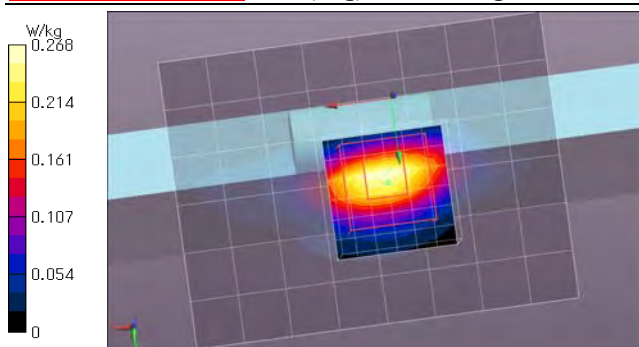
Area Scan:96x72,stp12 (9x7x1): Measurement grid: dx=12mm, dy=12mm; Maximum value of SAR (measured) = 0.266 W/kg

Area Scan:96x72,stp12 (81x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm; Maximum value of SAR (interpolated) = 0.285 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Reference Value = 12.25 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 0.268 W/kg; Peak SAR (extrapolated) = 0.382 W/kg

SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.069 W/kg



Remarks: *. Date tested: 2017/01/20; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: 24~25 deg.C. / 30~40 %RH,
*. liquid temperature: 23.4(start)/23.4(end)/23.8(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 1: 2.4GHz band (DTS) (cont'd)

Plot 1c-1: (Hand SAR(10g)) Right & touch, 11b, 2412 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11b(1Mbps,DBPSK/DSSS)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2412 MHz; Crest Factor: 1.0

Medium: M2450(1701); Medium parameters used: $f = 2412$ MHz; $\sigma = 1.962$ S/m; $\epsilon_r = 50.94$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.3, 7.3, 7.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

back,touch,hand-sar10g/24b1,dss;back&touch,b(1m,p12),b2412/

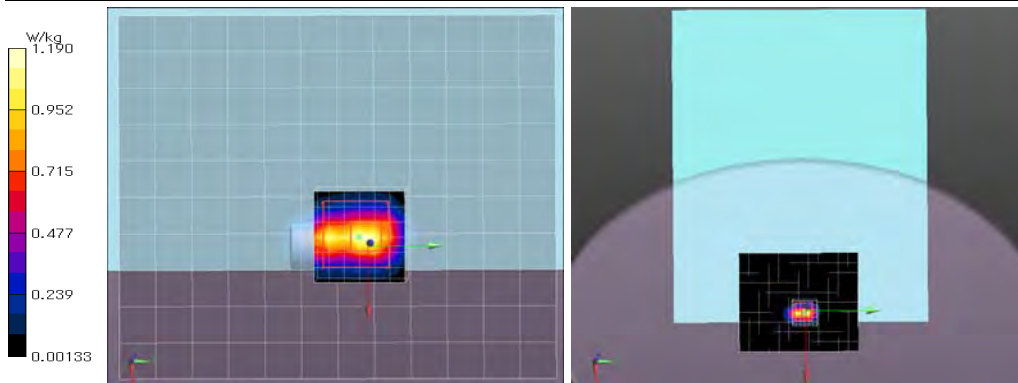
Area Scan:120x150,stp12 (11x13x1): Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured) = 1.07 W/kg

Area Scan:120x150,stp12 (101x121x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated) = 1.45 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 25.15 V/m; Power Drift = -0.05 dB; Maximum value of SAR (measured) = 1.19 W/kg; Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.701 W/kg; SAR(10 g) = 0.284 W/kg



Remarks: * . Date tested: 2017/01/23; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* . liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
* . liquid temperature: 22.2(start)/22.2(end)/22.4(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Plot 1c-2: (Hand SAR(10g)) Right & touch, 11b, 2437 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11b(1Mbps,DBPSK/DSSS)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2437 MHz; Crest Factor: 1.0

Medium: M2450(1701); Medium parameters used: $f = 2437$ MHz; $\sigma = 1.992$ S/m; $\epsilon_r = 50.90$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.3, 7.3, 7.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

back,touch,hand-sar10g/24b2,ch;dss;back&touch,b(1m,p12),b2437/

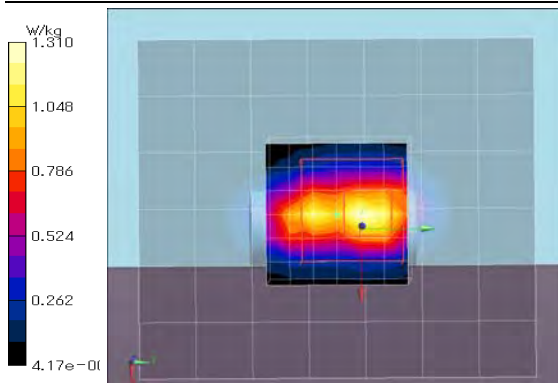
Area Scan:72x84,stp12 (7x8x1): Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured) = 1.26 W/kg

Area Scan:72x84,stp12 (61x71x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated) = 1.59 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 23.16 V/m; Power Drift = -0.00 dB; Maximum value of SAR (measured) = 1.31 W/kg; Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 0.756 W/kg; SAR(10 g) = 0.308 W/kg



Remarks: * . Date tested: 2017/01/23; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* . liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
* . liquid temperature: 22.2(start)/22.2(end)/22.4(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 1: 2.4GHz band (DTS) (cont'd)

Plot 1c-4: (Hand SAR(10g)) Right & touch, 11g, 2412 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11g(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2412 MHz; Crest Factor: 1.0

Medium: M2450(1701); Medium parameters used: $f = 2412$ MHz; $\sigma = 1.962$ S/m; $\epsilon_r = 50.94$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.3, 7.3, 7.3); Calibrated: 2016/03/15;

-Electronics: DAE4 Sn626; Calibrated: 2016/10/13

-Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$

-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

back,touch,hand-sar10g/24b4,ofdm1;back&touch,g(6m,p12),b2412/

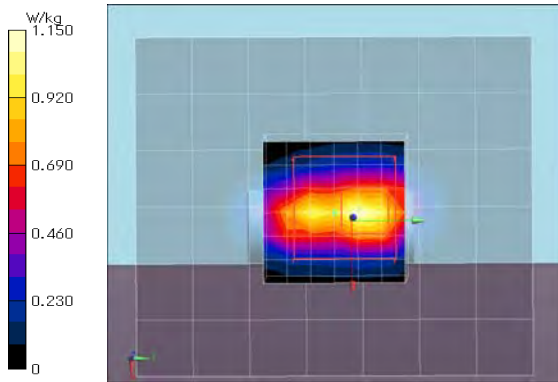
Area Scan:72x84,stp12 (7x8x1): Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured) = 1.09 W/kg

Area Scan:72x84,stp12 (61x71x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated) = 1.38 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 22.13 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 1.15 W/kg; Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.658 W/kg; SAR(10 g) = 0.267 W/kg



Remarks: *. Date tested: 2017/01/23; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
*. liquid temperature: 22.2(start)/22.2(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 1c-5: (Hand SAR(10g)) Right & touch, 11n(20HT), 2412 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2412 MHz; Crest Factor: 1.0

Medium: M2450(1701); Medium parameters used: $f = 2412$ MHz; $\sigma = 1.962$ S/m; $\epsilon_r = 50.94$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.3, 7.3, 7.3); Calibrated: 2016/03/15;

-Electronics: DAE4 Sn626; Calibrated: 2016/10/13

-Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$

-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

back,touch,hand-sar10g/24b5,ofdm2;back&touch,n20(m0,p12),b2412/

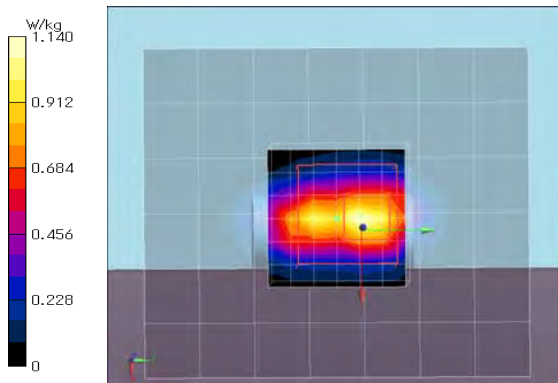
Area Scan:72x84,stp12 (7x8x1): Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured) = 1.08 W/kg

Area Scan:72x84,stp12 (61x71x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated) = 1.37 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 22.12 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 1.14 W/kg; Peak SAR (extrapolated) = 1.66 W/kg

SAR(1 g) = 0.655 W/kg; SAR(10 g) = 0.266 W/kg



Remarks: *. Date tested: 2017/01/23; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
*. liquid temperature: 22.2(start)/22.2(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 1: 2.4GHz band (DTS) (cont'd)

Plot 1c-6: (Hand SAR(10g)) Right & touch, 11n(20HT), 2422 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2422 MHz; Crest Factor: 1.0

Medium: M2450(1701); Medium parameters used: $f = 2422$ MHz; $\sigma = 1.976$ S/m; $\epsilon_r = 50.89$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.3, 7.3, 7.3); Calibrated: 2016/03/15; -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

back,touch,hand-sar10g/24b6,ofdm3;back&touch,n40(m0,p11),b2422/

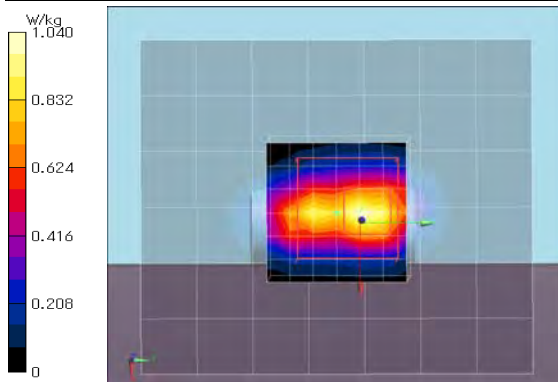
Area Scan:72x84,stp12 (7x8x1): Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured) = 0.984 W/kg

Area Scan:72x84,stp12 (61x71x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated) = 1.26 W/kg

Zoom Scan:30x30x30,stp5 (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 20.96 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 1.04 W/kg; Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.598 W/kg; SAR(10 g) = 0.242 W/kg



Remarks: *. Date tested: 2017/01/23; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 152 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
*. liquid temperature: 22.2(start)/22.3(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g) / small-SAR(1g)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 2a-1: (Body SAR) Right & touch, 11n(40HT), 5270 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5270 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5270$ MHz; $\sigma = 5.499$ S/m; $\epsilon_r = 47.24$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w53(52)/5b13,53b11,mode3/bw40;side&d0,n40(m0),b5270/

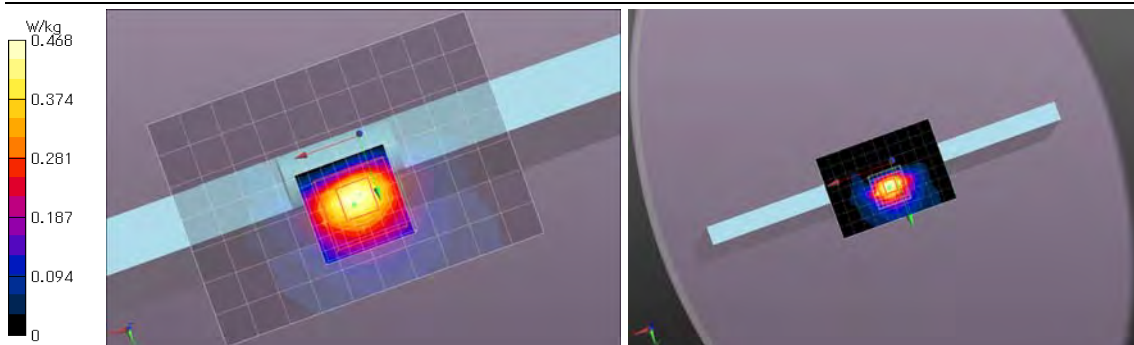
Area:100x70,stp10 (11x8x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.497 W/kg

Area:100x70,stp10 (101x71x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.662 W/kg

Zoom:28x28x28,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 10.56 V/m; Power Drift = -0.11 dB; Maximum value of SAR (measured) = 0.468 W/kg; Peak SAR (extrapolated) = 0.816 W/kg

SAR(1 g) = 0.205 W/kg; SAR(10 g) = 0.070 W/kg



Remarks: *. Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.1(start)/23.1(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g) / small-SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 2a-2: (Body SAR) Right & touch, 11n(40HT), 5310 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5310 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5310$ MHz; $\sigma = 5.574$ S/m; $\epsilon_r = 47.08$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w53(52)/5b14,53b12,mode3/bw40;side&d0,n40(m0),b5310/

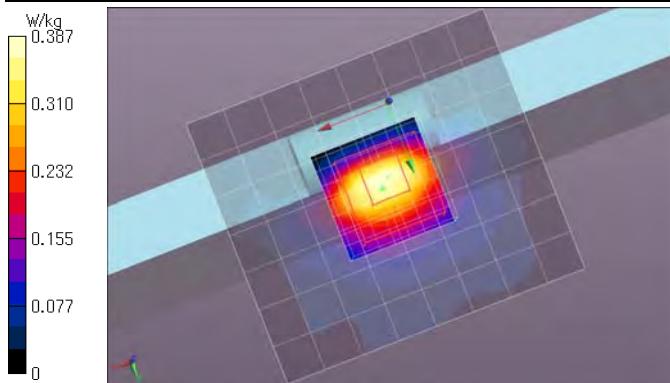
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.392 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.465 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 9.396 V/m; Power Drift = -0.11 dB; Maximum value of SAR (measured) = 0.387 W/kg; Peak SAR (extrapolated) = 0.580 W/kg

SAR(1 g) = 0.168 W/kg; SAR(10 g) = 0.058 W/kg



Remarks: *. Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.1(start)/22.9(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Plot 2a-3: (Body SAR) Right & touch, 11n(40HT), 5230 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5230 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5230$ MHz; $\sigma = 5.463$ S/m; $\epsilon_r = 47.3$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w53(52)/5b16,53b14,mode3/bw40;side&d0,n40(m0),b5230/

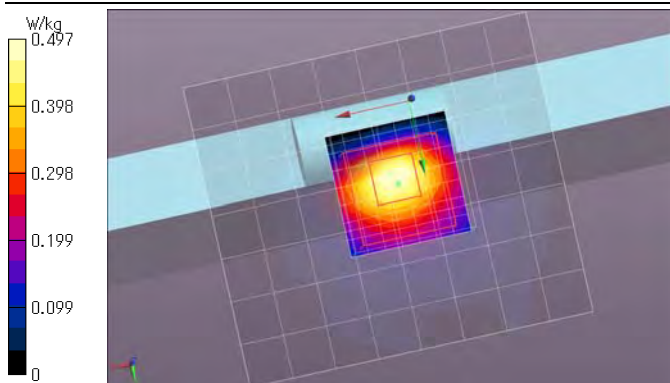
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.503 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.656 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 10.91 V/m; Power Drift = -0.09 dB; Maximum value of SAR (measured) = 0.497 W/kg; Peak SAR (extrapolated) = 0.755 W/kg

SAR(1 g) = 0.220 W/kg; SAR(10 g) = 0.075 W/kg



Remarks: *. Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 22.9(start)/23.0(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2-4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 2a-4: (Body SAR) Right & touch, 11n(40HT), 5190 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5190 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5190$ MHz; $\sigma = 5.396$ S/m; $\epsilon_r = 47.22$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w53(52)/5b15,53b13,mode3/bw40;side&d0,n40(m0),b5190/

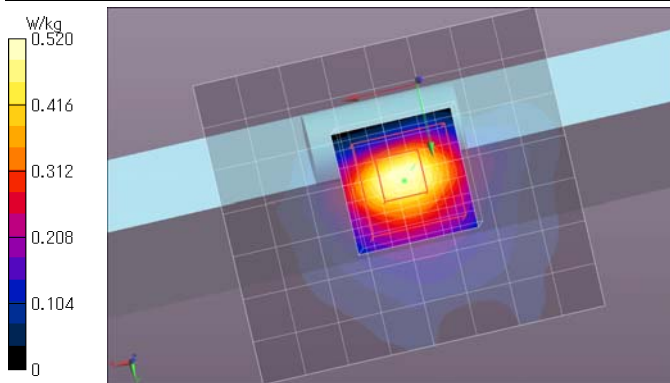
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.522 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.604 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 11.18 V/m; Power Drift = -0.05 dB; Maximum value of SAR (measured) = 0.520 W/kg; Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.232 W/kg; SAR(10 g) = 0.079 W/kg



Remarks: *. Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 22.9(start)/22.9(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 2a-5: (Body SAR) Front (Patient side) & touch, 11n(40HT), 5270 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5270 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5270$ MHz; $\sigma = 5.499$ S/m; $\epsilon_r = 47.24$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch/5b10,53b10,mode3;front(patient)&d0,n40(m0),h5270/

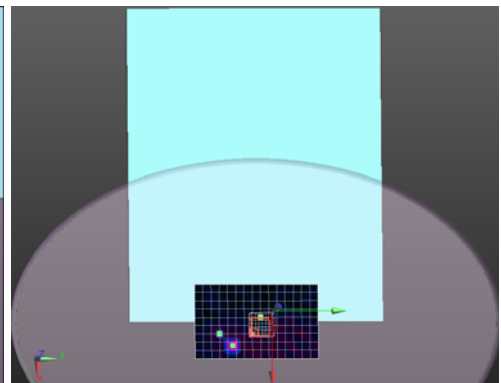
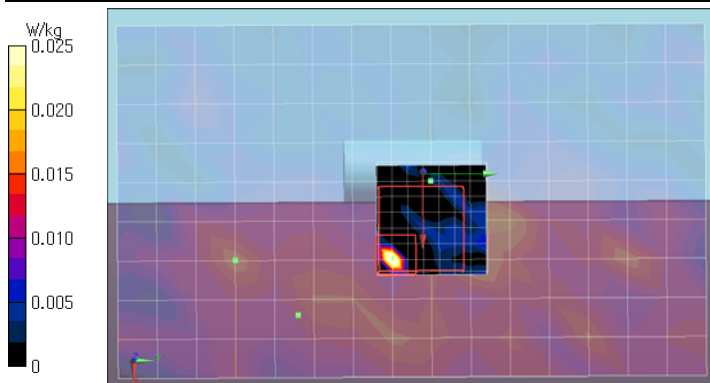
Area:90x150,stp10 (10x16x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.0190 W/kg

Area:90x150,stp10 (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.0202 W/kg

Zoom(pk3):28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 1.377 V/m; Power Drift = -0.20 dB; Maximum value of SAR (measured) = 0.0371 W/kg; Peak SAR (extrapolated) = 0.0370 W/kg

SAR(1 g) = 0.00012 W/kg; SAR(10 g) = 1.49e-005 W/kg



Remarks: *. Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 22.6(start)/22.7(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 2a-6: (Body SAR) Right & touch, 11n(20HT), 5260 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5260 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5260$ MHz; $\sigma = 5.506$ S/m; $\epsilon_r = 47.21$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w53(52)/5b18,53b16,mode2;side&d0,n20(m0),b5260/

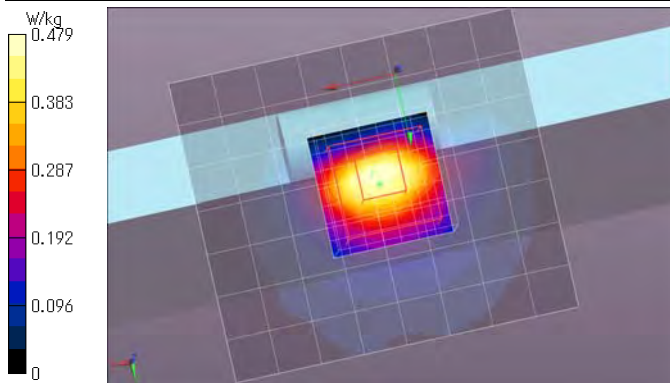
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.496 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.586 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 10.61 V/m; Power Drift = -0.01 dB; Maximum value of SAR (measured) = 0.479 W/kg; Peak SAR (extrapolated) = 0.747 W/kg

SAR(1 g) = 0.211 W/kg; SAR(10 g) = 0.072 W/kg



Remarks: *. Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.0(start)/23.0(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 2a-7: (Body SAR) Right & touch, 11a, 5260 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5260 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5260$ MHz; $\sigma = 5.506$ S/m; $\epsilon_r = 47.21$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w53(52)/5b17,53b15,mode1;side&d0,a(6m),b5260/

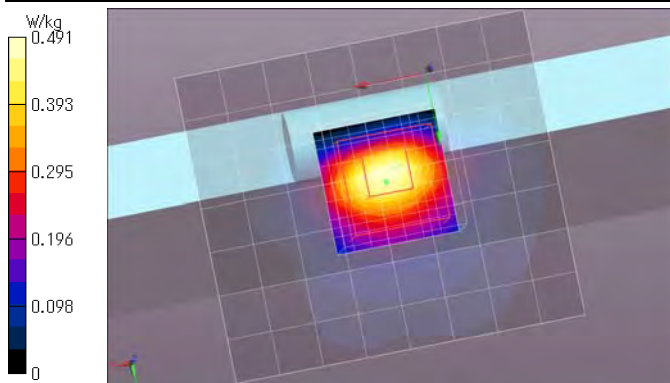
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.499 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.570 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 10.64 V/m; Power Drift = -0.05 dB; Maximum value of SAR (measured) = 0.491 W/kg; Peak SAR (extrapolated) = 0.756 W/kg

SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.073 W/kg



Remarks: *. Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.0(start)/23.0(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 2a-8: (Body SAR) Right & touch, 11a, 5300 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5300 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5300$ MHz; $\sigma = 5.558$ S/m; $\epsilon_r = 47.11$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0, 156.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w53(52)/5b21,53b19,model1;side&d0,a(6m),b5300/

Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.506 W/kg

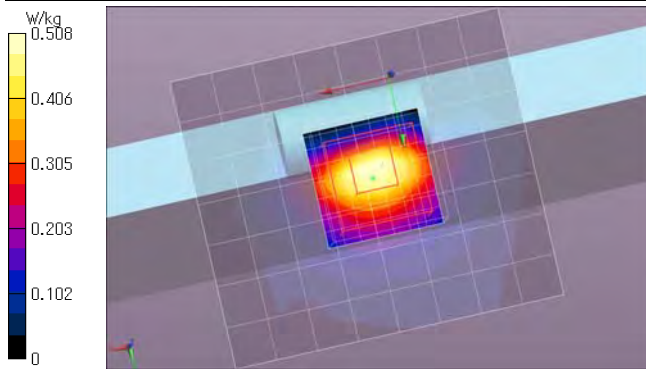
Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.605 W/kg

Z Scan:155,5 (1x1x32): Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 0.508 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 10.74 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 0.506 W/kg; Peak SAR (extrapolated) = 0.776 W/kg

SAR(1 g) = 0.220 W/kg; SAR(10 g) = 0.076 W/kg



Remarks: *. Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.0(start)/23.0(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 2a-9: (Body SAR) Right & touch, 11a, 5320 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5320 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5320$ MHz; $\sigma = 5.571$ S/m; $\epsilon_r = 47.06$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w53(52)/5b19,53b17,model1;side&d0,a(6m),b5320/

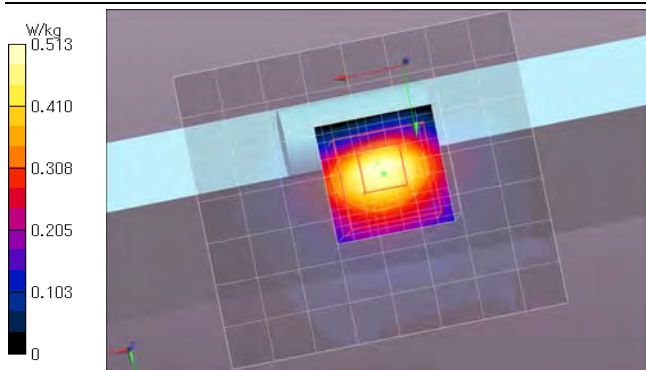
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.507 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.613 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 10.95 V/m; Power Drift = -0.05 dB; Maximum value of SAR (measured) = 0.513 W/kg; Peak SAR (extrapolated) = 0.800 W/kg

SAR(1 g) = 0.223 W/kg; SAR(10 g) = 0.077 W/kg



Remarks: *. Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.0(start)/23.0(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 2b-1: (Head SAR) Right & touch, 11n(20HT), 5270 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5270 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5270$ MHz; $\sigma = 4.533$ S/m; $\epsilon_r = 35.83$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.67, 4.67, 4.67); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w52,w53,side,front/5h36,53h6,h20,mode3/bw40;side&d0,n40(m0)/

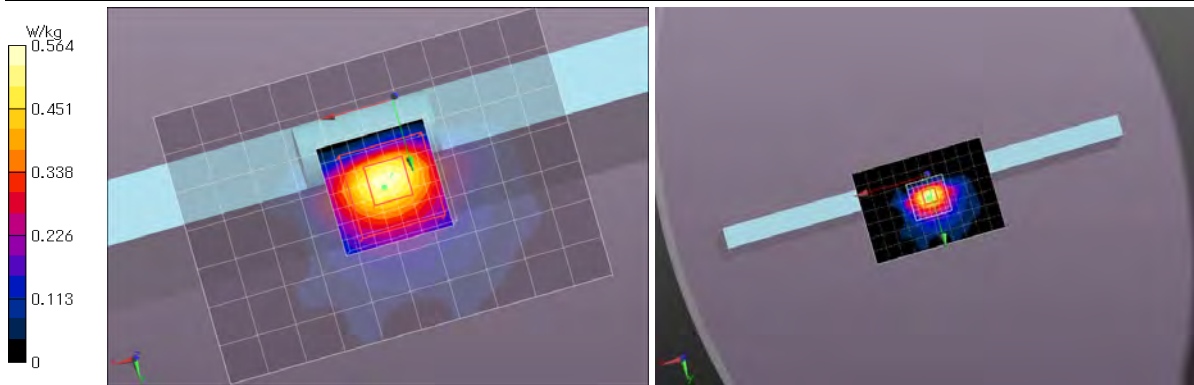
Area:100x70,stp10 (11x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.558 W/kg

Area:100x70,stp10 (101x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.779 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 12.02 V/m; Power Drift = -0.07 dB; Maximum value of SAR (measured) = 0.564 W/kg; Peak SAR (extrapolated) = 0.890 W/kg

SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.085 W/kg



Remarks: * . Date tested: 2017/01/31; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* . liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (30~40) %RH,
* . liquid temperature: 22.1(start)/22.2(end)/22.4(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Plot 2b-2: (Head SAR) Right & touch, 11n(20HT), 5310 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5310 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5310$ MHz; $\sigma = 4.568$ S/m; $\epsilon_r = 35.6$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.67, 4.67, 4.67); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w52,w53,side,front/5h37,53h7,h5310,mode3/bw40;ch/side&d0,n40(m0)/

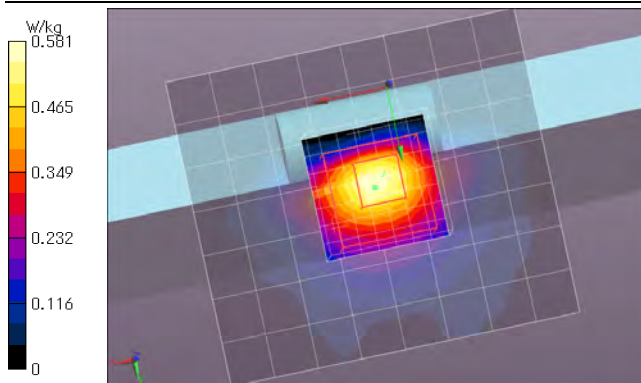
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.581 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.829 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 12.30 V/m; Power Drift = -0.07 dB; Maximum value of SAR (measured) = 0.581 W/kg; Peak SAR (extrapolated) = 0.924 W/kg

SAR(1 g) = 0.255 W/kg; SAR(10 g) = 0.088 W/kg



Remarks: * . Date tested: 2017/01/31; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* . liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (30~40) %RH,
* . liquid temperature: 22.2(start)/22.2(end)/22.4(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 2b-3: (Head SAR) Right & touch, 11n(20HT), 5230 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5230 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5230$ MHz; $\sigma = 4.514$ S/m; $\epsilon_r = 35.81$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.67, 4.67, 4.67); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w52,w53,side,front/5h39,53h9,h5230,mode3/bw40;ch/side&d0,n40(m0)/

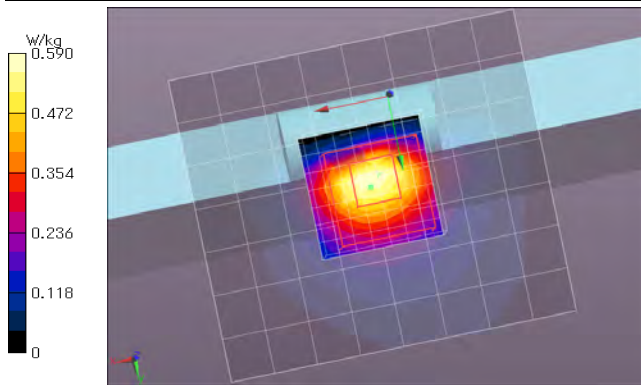
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.595 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.759 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 12.39 V/m; Power Drift = -0.05 dB; Maximum value of SAR (measured) = 0.590 W/kg; Peak SAR (extrapolated) = 0.927 W/kg

SAR(1 g) = 0.262 W/kg; SAR(10 g) = 0.090 W/kg



Remarks: *. Date tested: 2017/01/31; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (30~40) %RH,
*. liquid temperature: 22.2(start)/22.3(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Plot 2b-5: (Head SAR) Front (Patient side) & touch, 11n(20HT), 5270 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5270 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5270$ MHz; $\sigma = 4.533$ S/m; $\epsilon_r = 35.83$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.67, 4.67, 4.67); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w52,w53,side,front/5h45re,53h15,h5270,mode3:front(patient)&d0,n40(m0)/

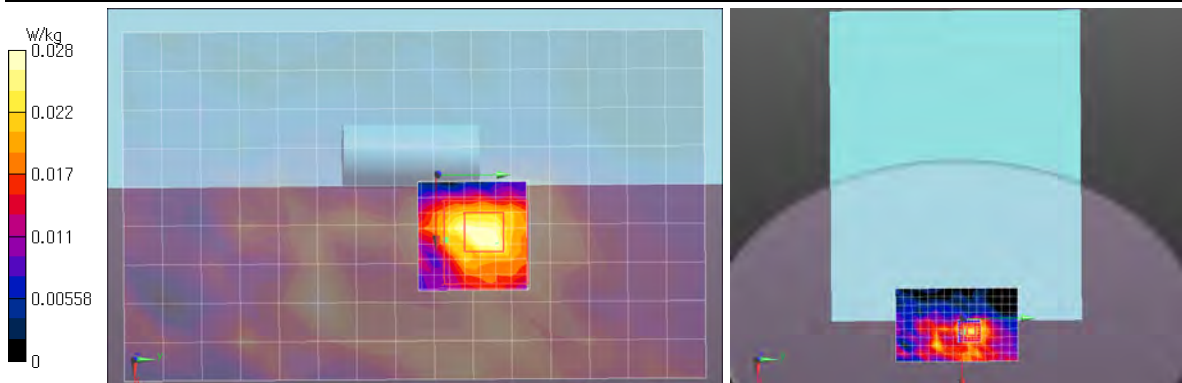
Area:90x150,stp10 (10x16x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.0377 W/kg

Area:90x150,stp10 (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.0760 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 2.307 V/m; Power Drift = -0.20 dB; Maximum value of SAR (measured) = 0.0279 W/kg; Peak SAR (extrapolated) = 0.0990 W/kg

SAR(1 g) = 0.00908 W/kg; SAR(10 g) = 0.00314 W/kg



Remarks: *. Date tested: 2017/01/31; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (30~40) %RH,
*. liquid temperature: 22.4(start)/22.4(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 2b-6: (Head SAR) Right & touch, 11a, 5260 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5260 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5260$ MHz; $\sigma = 4.543$ S/m; $\epsilon_r = 35.72$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.67, 4.67, 4.67); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w52,w53,side,front/5h40,53h10,h5260,mode1;side&d0,a(6m)/

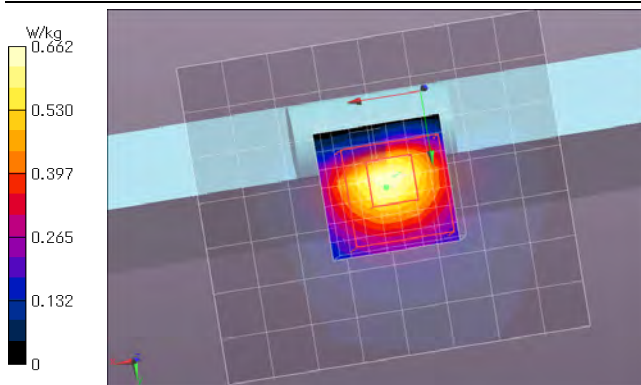
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.648 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.842 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 13.00 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 0.662 W/kg; Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.291 W/kg; SAR(10 g) = 0.101 W/kg



Remarks: *. Date tested: 2017/01/31; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (30~40) %RH,
*. liquid temperature: 22.3(start)/22.3(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 2b-7: (Head SAR) Right & touch, 11n(20HT), 5260 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5260 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5260$ MHz; $\sigma = 4.543$ S/m; $\epsilon_r = 35.72$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.67, 4.67, 4.67); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w52,w53,side,front/5h41,53h11,h5260,mode2;side&d0,n20(m0)/

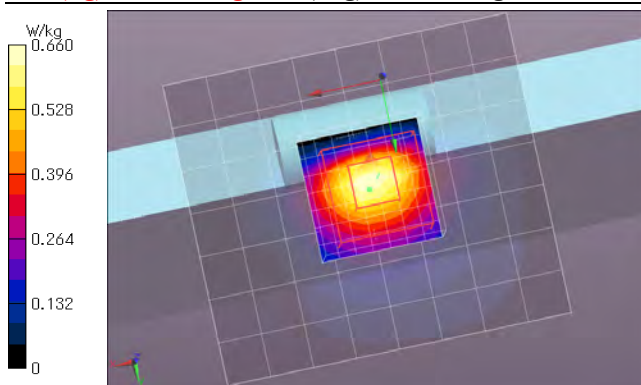
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.660 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.823 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 12.87 V/m; Power Drift = -0.03 dB; Maximum value of SAR (measured) = 0.660 W/kg; Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.101 W/kg



Remarks: *. Date tested: 2017/01/31; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (30~40) %RH,
*. liquid temperature: 22.3(start)/22.3(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 2b-8: (Head SAR) Right & touch, 11n(20HT), 5300 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5300 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5300$ MHz; $\sigma = 4.556$ S/m; $\epsilon_r = 35.70$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.67, 4.67, 4.67); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w52,w53,side,front/5h44,53h14,h5300,mode2;side&d0,n20(m0)/

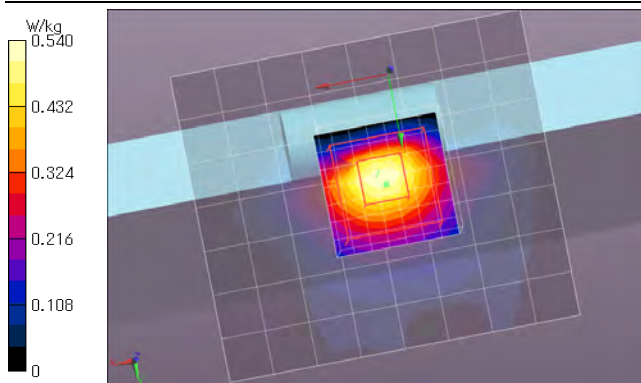
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.545 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.703 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 11.78 V/m; Power Drift = -0.05 dB; Maximum value of SAR (measured) = 0.540 W/kg; Peak SAR (extrapolated) = 0.859 W/kg

SAR(1 g) = 0.239 W/kg; SAR(10 g) = 0.082 W/kg



Remarks: *. Date tested: 2017/01/31; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (30~40) %RH,
*. liquid temperature: 22.4(start)/22.4(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Plot 2b-9: (Head SAR) Right & touch, 11n(20HT), 5320 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5320 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5320$ MHz; $\sigma = 4.574$ S/m; $\epsilon_r = 35.58$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.67, 4.67, 4.67); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w52,w53,side,front/5h42,53h12,h5320,mode2;side&d0,n20(m0)/

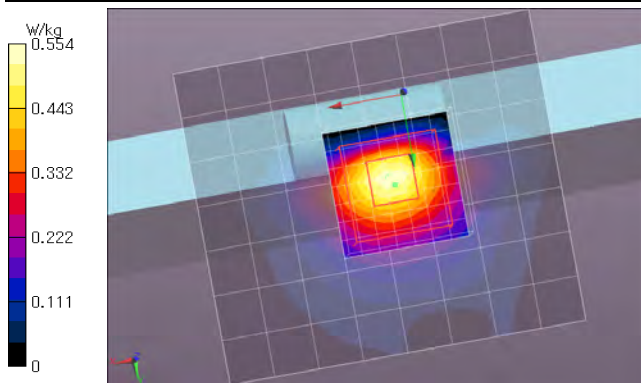
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.543 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.706 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 11.82 V/m; Power Drift = -0.10 dB; Maximum value of SAR (measured) = 0.554 W/kg; Peak SAR (extrapolated) = 0.879 W/kg

SAR(1 g) = 0.241 W/kg; SAR(10 g) = 0.083 W/kg



Remarks: *. Date tested: 2017/01/31; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (30~40) %RH,
*. liquid temperature: 22.3(start)/22.3(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 2b-10: (Head SAR) Right & touch, 11n(20HT), 5180 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5180 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5180$ MHz; $\sigma = 4.427$ S/m; $\epsilon_r = 35.81$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.67, 4.67, 4.67); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w52,w53,side,front/5h43,53h13,h5180,mode2;side&d0,n20(m0)/

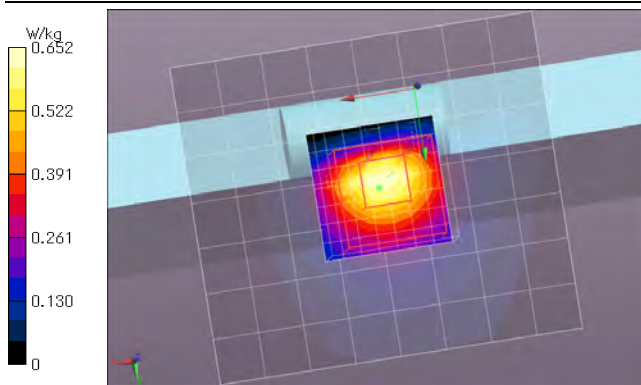
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.645 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.834 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 13.08 V/m; Power Drift = 0.00 dB; Maximum value of SAR (measured) = 0.652 W/kg; Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.290 W/kg; SAR(10 g) = 0.100 W/kg



Remarks: *. Date tested: 2017/01/31; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (30~40) %RH,
*. liquid temperature: 22.3(start)/22.4(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 2c-1: (Hand SAR(10g)) Back & touch, 11n(40HT), 5270 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5270 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5270$ MHz; $\sigma = 5.499$ S/m; $\epsilon_r = 47.24$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

hand-sar,w53(52),back,5b1,53b1,mode3;back&d0,n40(m0),b5270/

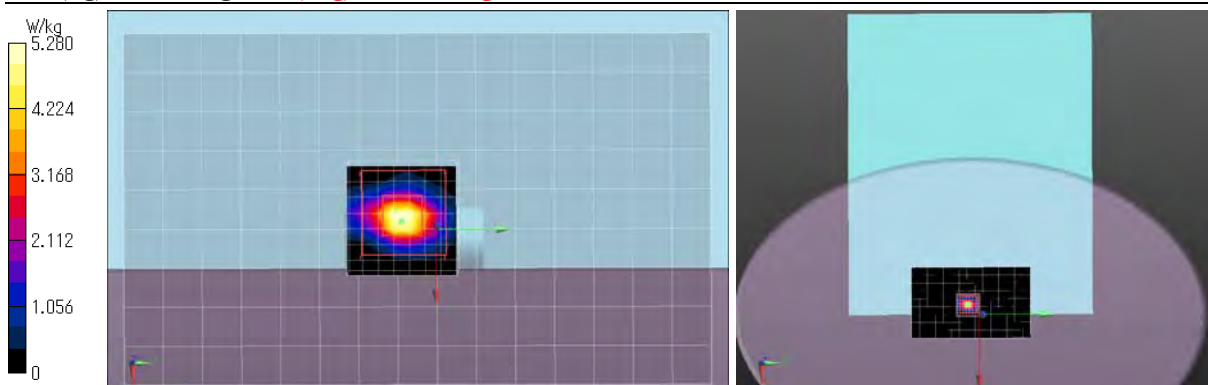
Area:90x150,stp10 (10x16x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 4.99 W/kg

Area:90x150,stp10 (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 5.92 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 38.00 V/m; Power Drift = -0.07 dB; Maximum value of SAR (measured) = 5.28 W/kg; Peak SAR (extrapolated) = 10.1 W/kg

SAR(1 g) = 2.03 W/kg; SAR(10 g) = 0.444 W/kg



Remarks: *. Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.1(start)/22.9(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 2c-2: (Hand SAR(10g)) Back & touch, 11n(40HTT), 5310 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5310 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5310$ MHz; $\sigma = 5.574$ S/m; $\epsilon_r = 47.08$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

hand-sar,w53(52),back/5b2,53b2,mode3;back&d0,n40(m0),b5310/

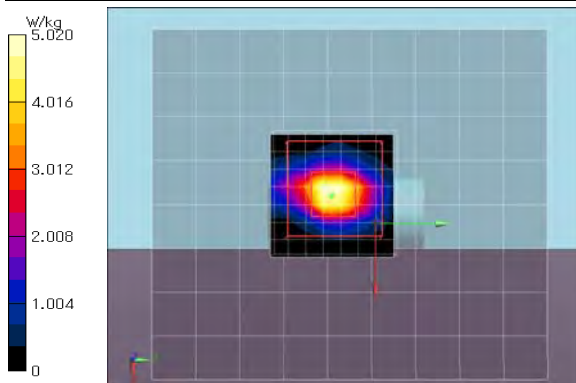
Area:80x90,stp10 (9x10x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 4.72 W/kg

Area:80x90,stp10 (81x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 5.55 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 36.31 V/m; Power Drift = -0.03 dB; Maximum value of SAR (measured) = 5.02 W/kg; Peak SAR (extrapolated) = 9.54 W/kg

SAR(1 g) = 1.9 W/kg; SAR(10 g) = 0.420 W/kg



Remarks: *. Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 22.9(start)/22.7(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 2c-3: (Hand SAR(10g)) Back & touch, 11n(40HTT), 5230 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5230 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5230$ MHz; $\sigma = 5.463$ S/m; $\epsilon_r = 47.3$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

hand-sar,w53(52),back/5b3,53b3,mode3;back&d0,n40(m0),b5230/

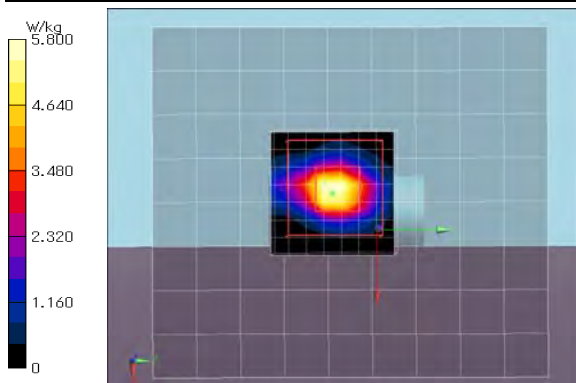
Area:80x90,stp10 (9x10x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 5.53 W/kg

Area:80x90,stp10 (81x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 6.48 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 39.99 V/m; Power Drift = -0.01 dB; Maximum value of SAR (measured) = 5.80 W/kg; Peak SAR (extrapolated) = 11.0 W/kg

SAR(1 g) = 2.24 W/kg; SAR(10 g) = 0.489 W/kg



Remarks: *. Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 22.7(start)/22.7(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2-4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 2c-4: (Hand SAR(10g)) Back & touch, 11n(40HT), 5190 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5230 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5190$ MHz; $\sigma = 5.396$ S/m; $\epsilon_r = 47.22$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0, 156.0$
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

hand-sar,w53(52),back/5b4,53b4,mode3;back&d0,n40(m0),b5190/

Area:80x90,stp10 (9x10x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 6.87 W/kg

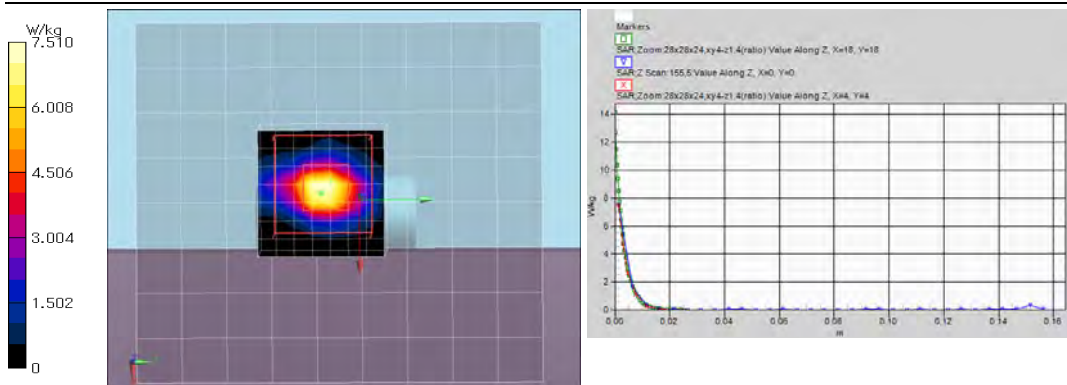
Area:80x90,stp10 (81x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 8.07 W/kg

Z Scan:155,5 (1x1x32): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm; Maximum value of SAR (measured) = 7.44 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 44.84 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 7.51 W/kg; Peak SAR (extrapolated) = 14.1 W/kg

SAR(1 g) = 2.84 W/kg; SAR(10 g) = 0.614 W/kg



Remarks: * Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* liquid temperature: 22.7(start)/22.6(end)/23.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 2c-5: (Hand SAR(10g)) Back & touch, 11a, 5260 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5260 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5260$ MHz; $\sigma = 5.506$ S/m; $\epsilon_r = 47.21$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

hand-sar,w53(52),back/5b5,53b5,mode1;back&d0,a(6m),b5260/

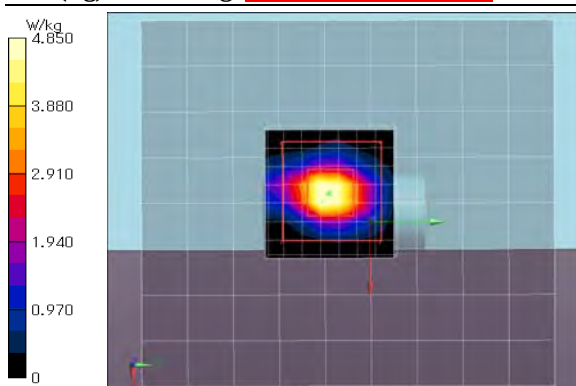
Area:80x90,stp10 (9x10x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 5.06 W/kg

Area:80x90,stp10 (81x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 5.71 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 36.84 V/m; Power Drift = -0.06 dB; Maximum value of SAR (measured) = 4.85 W/kg; Peak SAR (extrapolated) = 9.47 W/kg

SAR(1 g) = 1.91 W/kg; SAR(10 g) = 0.415 W/kg



Remarks: * Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* liquid temperature: 22.6(start)/22.6(end)/23.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 2c-6: (Hand SAR(10g)) Back & touch, 11n(20HTT), 5260 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5260 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5260$ MHz; $\sigma = 5.506$ S/m; $\epsilon_r = 47.21$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

hand-sar,w53(52),back/5b6,53b6,mode2;back&d0,n20(m0),b5260/

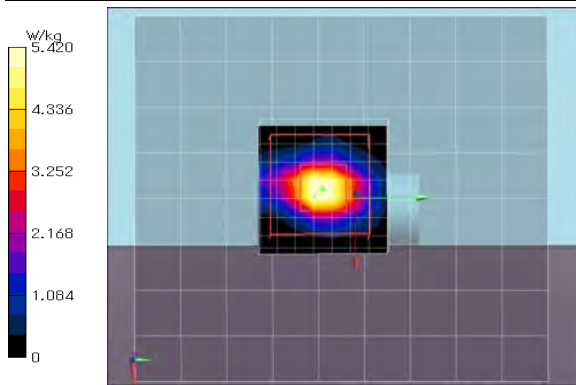
Area:80x90,stp10 (9x10x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 5.81 W/kg

Area:80x90,stp10 (81x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 6.38 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 38.82 V/m; Power Drift = -0.05 dB; Maximum value of SAR (measured) = 5.42 W/kg; Peak SAR (extrapolated) = 10.6 W/kg

SAR(1 g) = 2.14 W/kg; SAR(10 g) = 0.467 W/kg



Remarks: * Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* liquid temperature: 22.6(start)/22.5(end)/23.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Plot 2c-7: (Hand SAR(10g)) Back & touch, 11n(20HTT), 5300 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5300 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5300$ MHz; $\sigma = 5.558$ S/m; $\epsilon_r = 47.11$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

hand-sar(10g),w53(52),back/5b9,53b9,ch/mode2;back&d0,n20(m0),b5300/

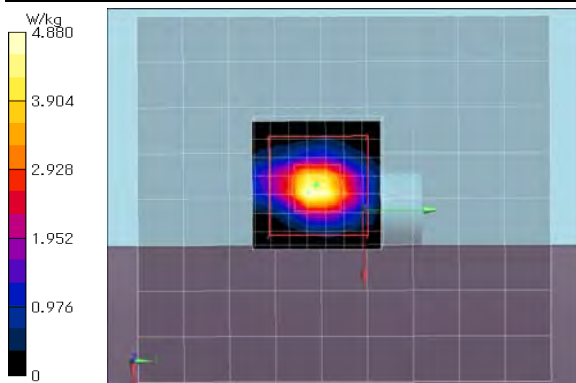
Area:80x90,stp10 (9x10x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 4.42 W/kg

Area:80x90,stp10 (81x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 5.16 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 35.38 V/m; Power Drift = -0.07 dB; Maximum value of SAR (measured) = 4.88 W/kg; Peak SAR (extrapolated) = 9.03 W/kg

SAR(1 g) = 1.79 W/kg; SAR(10 g) = 0.390 W/kg



Remarks: * Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* liquid temperature: 22.5(start)/22.6(end)/23.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

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Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 2c-8: (Hand SAR(10g)) Back & touch, 11n(20HT), 5320 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5320 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5320$ MHz; $\sigma = 5.571$ S/m; $\epsilon_r = 47.06$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

hand-sar,w53(52),back/5b7,53b7,ch/mode2;back&d0,n20(m0),b5320/

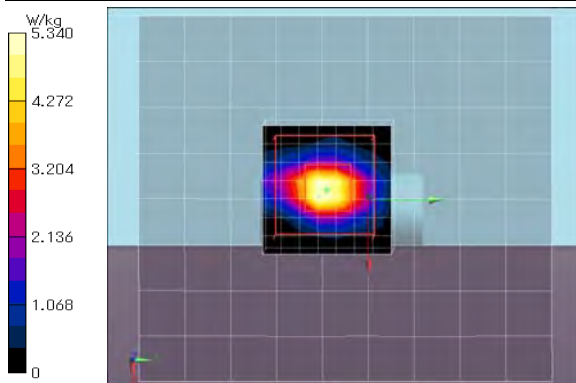
Area:80x90,stp10 (9x10x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 5.63 W/kg

Area:80x90,stp10 (81x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 6.06 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 38.03 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 5.34 W/kg; Peak SAR (extrapolated) = 10.3 W/kg

SAR(1 g) = 2.06 W/kg; SAR(10 g) = 0.453 W/kg



Remarks: *. Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 22.5(start)/22.5(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 2c-9: (Hand SAR(10g)) Back & touch, 11n(20HT), 5180 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5180 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5180$ MHz; $\sigma = 5.363$ S/m; $\epsilon_r = 47.39$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

hand-sar(10g),w53(52),back/5b8,53b8,ch/mode2;back&d0,n20(m0),b5180/

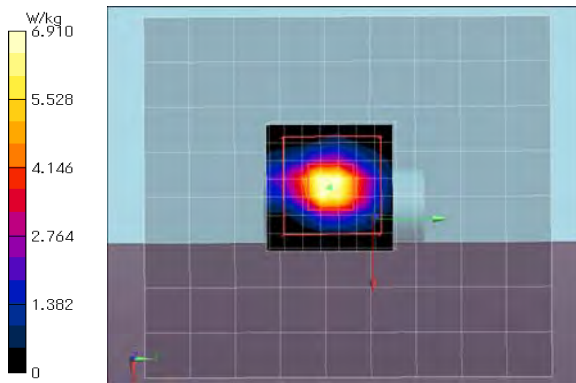
Area:80x90,stp10 (9x10x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 6.80 W/kg

Area:80x90,stp10 (81x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 7.65 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 44.15 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 6.91 W/kg; Peak SAR (extrapolated) = 13.5 W/kg

SAR(1 g) = 2.69 W/kg; SAR(10 g) = 0.578 W/kg



Remarks: *. Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 22.5(start)/22.5(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 3a-1: (Body SAR) Right & touch, 11n(40HT), 5670 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode:n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5670 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5670$ MHz; $\sigma = 6.045$ S/m; $\epsilon_r = 46.49$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w56/5b46,56b14,mode3/bw40;ch/side&d0,n40(m0),b5670/

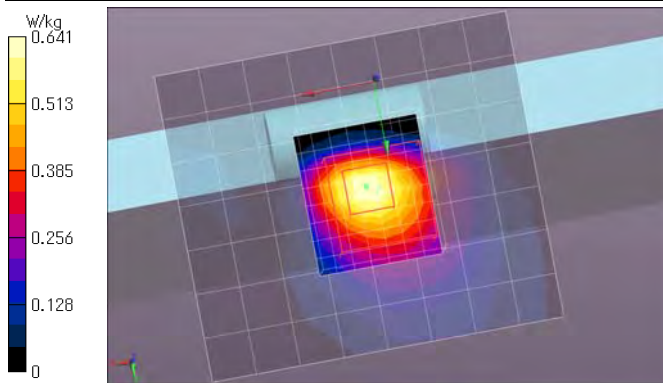
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.609 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.882 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 12.25 V/m; Power Drift = -0.03 dB; Maximum value of SAR (measured) = 0.641 W/kg; Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.275 W/kg; SAR(10 g) = 0.096 W/kg



Remarks: *. Date tested: 2017/01/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.3(start)/23.3(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 3a-2: (Body SAR) Right & touch, 11n(40HT), 5590 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode:n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5590 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5590$ MHz; $\sigma = 5.924$ S/m; $\epsilon_r = 46.71$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w56/5b45,56b13,mode3/bw40;side&d0,n40(m0),b5590/

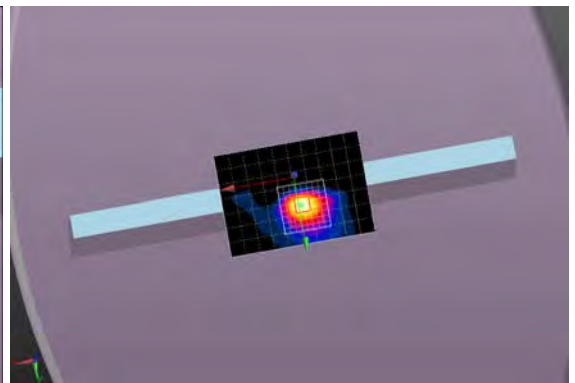
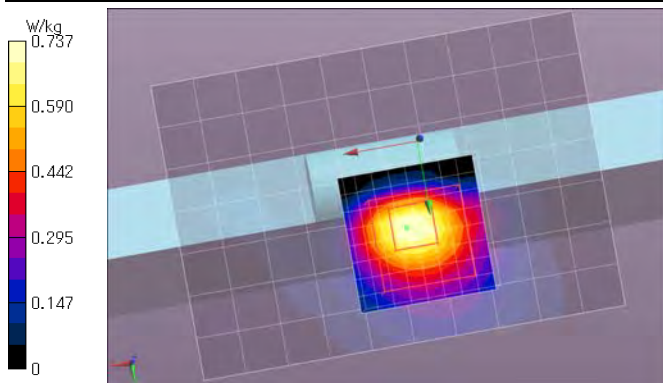
Area:100x70,stp10 (11x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.689 W/kg

Area:100x70,stp10 (101x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.12 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 13.39 V/m; Power Drift = -0.19 dB; Maximum value of SAR (measured) = 0.737 W/kg; Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.328 W/kg; SAR(10 g) = 0.111 W/kg



Remarks: *. Date tested: 2017/01/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.4(start)/23.3(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 3a-3: (Body SAR) Right & touch, 11n(40HT), 5550 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode:n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5550 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5550$ MHz; $\sigma = 5.878$ S/m; $\epsilon_r = 46.83$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0, 156.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w56/5b48,56b16,mode3/bw40;ch/side&d0,n40(m0),b5550/

Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.624 W/kg

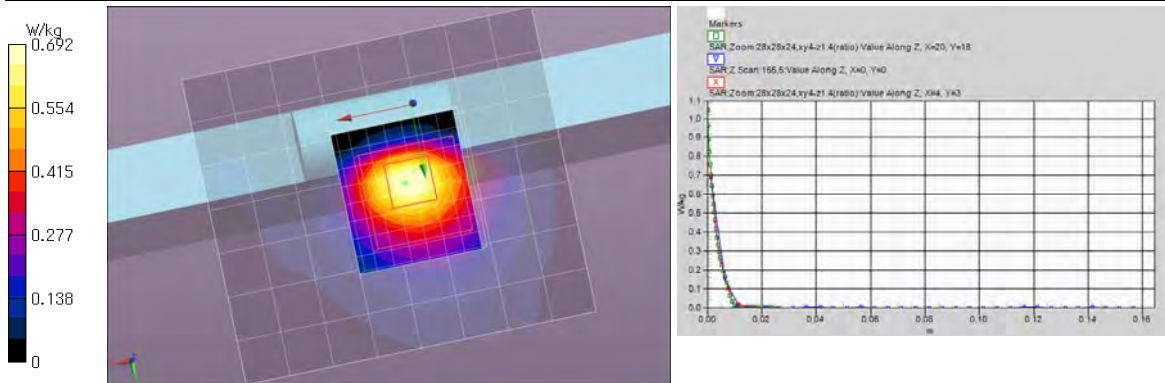
Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.07 W/kg

Z Scan:155,5 (1x1x32): Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 0.682 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 12.99 V/m; Power Drift = -0.01 dB; Maximum value of SAR (measured) = 0.692 W/kg; Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.304 W/kg; SAR(10 g) = 0.102 W/kg



Remarks: * . Date tested: 2017/01/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* . liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* . liquid temperature: 23.3(start)/23.3(end)/23.4(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 3a-4: (Body SAR) Right & touch, 11n(40HT), 5510 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode:n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5510 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5510$ MHz; $\sigma = 5.805$ S/m; $\epsilon_r = 46.75$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w56/5b47,56b15,mode3/bw40;ch/side&d0,n40(m0),b5510/

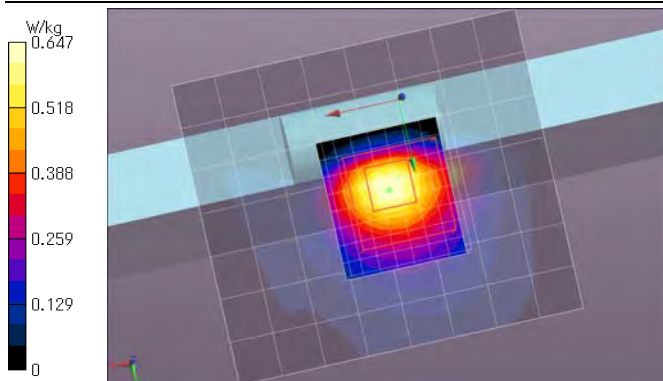
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.599 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.04 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 12.62 V/m; Power Drift = 0.01 dB; Maximum value of SAR (measured) = 0.647 W/kg; Peak SAR (extrapolated) = 0.970 W/kg

SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.095 W/kg



Remarks: * . Date tested: 2017/01/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* . liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* . liquid temperature: 23.3(start)/23.3(end)/23.4(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 3a-5: (Body SAR) Front (Patient side) & touch, 11n(40HT), 5550 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5550 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5550$ MHz; $\sigma = 5.878$ S/m; $\epsilon_r = 46.83$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch/5b12,56b1,mode3;front(patient)&d0,n40(m0),b5550/

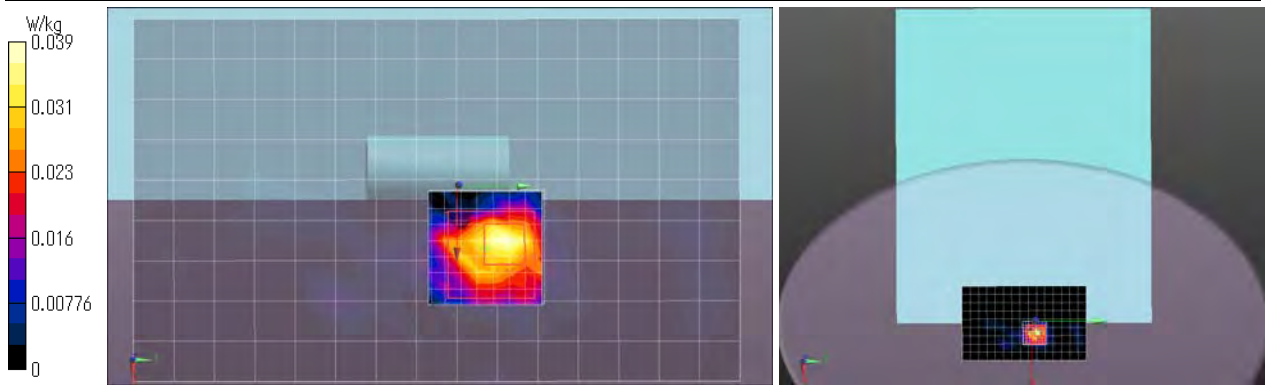
Area:90x150,stp10 (10x16x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.0247 W/kg

Area:90x150,stp10 (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.0578 W/kg

Zoom:pk1:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 3.034 V/m; Power Drift = -0.20 dB; Maximum value of SAR (measured) = 0.0388 W/kg; Peak SAR (extrapolated) = 0.198 W/kg

SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.00335 W/kg



Remarks: *. Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 22.7(start)/22.8(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g) /small=SAR(1g)

Plot 3a-6: (Body SAR) Right & touch, 11a, 5580 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5580 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5580$ MHz; $\sigma = 5.917$ S/m; $\epsilon_r = 46.71$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w56/5b43,56b11,mode1;side&d0,a(6m),b5580/

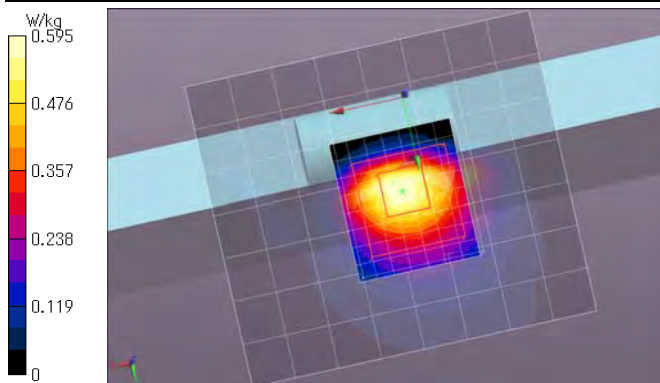
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.528 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.970 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 12.07 V/m; Power Drift = -0.12 dB; Maximum value of SAR (measured) = 0.595 W/kg; Peak SAR (extrapolated) = 0.916 W/kg

SAR(1 g) = 0.257 W/kg; SAR(10 g) = 0.085 W/kg



Remarks: *. Date tested: 2017/01/18; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.2(start)/23.2(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g) /small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 3a-7: (Body SAR) Right & touch, 11n(20HT), 5580 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode:n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5580 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5580$ MHz; $\sigma = 5.917$ S/m; $\epsilon_r = 46.71$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w56/5b44,56b12,mode2;side&d0,n20(m0),b5580/

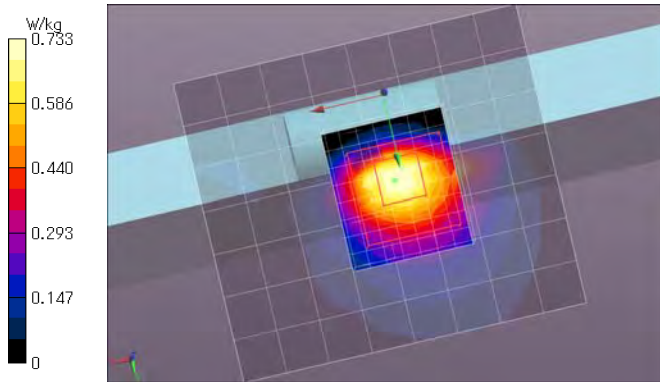
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.655 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.15 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 13.45 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 0.733 W/kg; Peak SAR (extrapolated) = 2.42 W/kg

SAR(1 g) = 0.320 W/kg; SAR(10 g) = 0.107 W/kg



Remarks: *. Date tested: 2017/01/18; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.2(start)/23.2(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 3a-8: (Body SAR) Right & touch, 11n(20HT), 5700 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode:n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5700 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5700$ MHz; $\sigma = 6.063$ S/m; $\epsilon_r = 46.56$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w56/5b49,56b17,mode2;chside&d0,n20(m0),b5700/

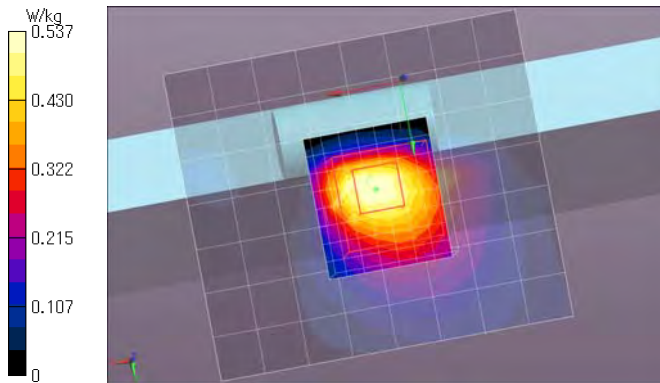
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.508 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.860 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 11.40 V/m; Power Drift = -0.06 dB; Maximum value of SAR (measured) = 0.537 W/kg; Peak SAR (extrapolated) = 0.806 W/kg

SAR(1 g) = 0.234 W/kg; SAR(10 g) = 0.083 W/kg



Remarks: *. Date tested: 2017/01/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.3(start)/23.3(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 3a-9: (Body SAR) Right & touch, 11n(20HT), 5600 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode:n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5600 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5600$ MHz; $\sigma = 5.968$ S/m; $\epsilon_r = 46.61$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w56/5b51,56b19,mode2;ch/side&d0,n20(m0),b5600/

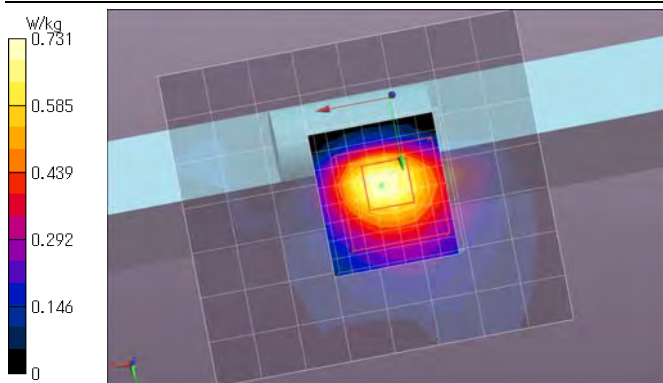
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.672 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.12 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 13.30 V/m; Power Drift = 0.02 dB; Maximum value of SAR (measured) = 0.731 W/kg; Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.317 W/kg; SAR(10 g) = 0.106 W/kg



Remarks: *. Date tested: 2017/01/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.3(start)/23.3(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 3a-10: (Body SAR) Right & touch, 11n(20HT), 5500 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode:n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5500 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5500$ MHz; $\sigma = 5.799$ S/m; $\epsilon_r = 46.78$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w56/5b50,56b18,mode2;ch/side&d0,n20(m0),b5500/

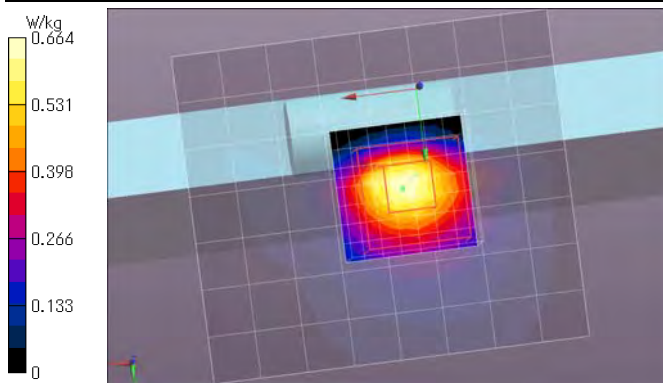
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.578 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.22 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 12.68 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 0.664 W/kg; Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.285 W/kg; SAR(10 g) = 0.093 W/kg



Remarks: *. Date tested: 2017/01/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.3(start)/23.3(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 3b-1: (Head SAR) Right & touch, 11n(40HT), 5670 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5670 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5670$ MHz; $\sigma = 4.928$ S/m; $\epsilon_r = 35.18$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w56,side,front/5h23,56h9,h5670,mode3/bw40;ch/side&d0,n40(m0)

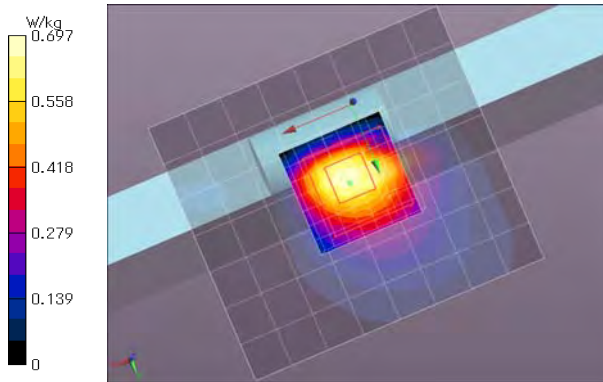
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.720 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.893 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 13.27 V/m; Power Drift = -0.09 dB; Maximum value of SAR (measured) = 0.697 W/kg; Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.107 W/kg



Remarks: *. Date tested: 2017/01/30; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (45 ± 10) %RH,
*. liquid temperature: 22.7(start)/22.7(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Plot 3b-2: (Head SAR) Right & touch, 11n(40HT), 5590 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5590 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5590$ MHz; $\sigma = 4.847$ S/m; $\epsilon_r = 35.26$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w56,side,front/5h20,56h6,h5590,mode3/bw40;side&d0,n40(m0)

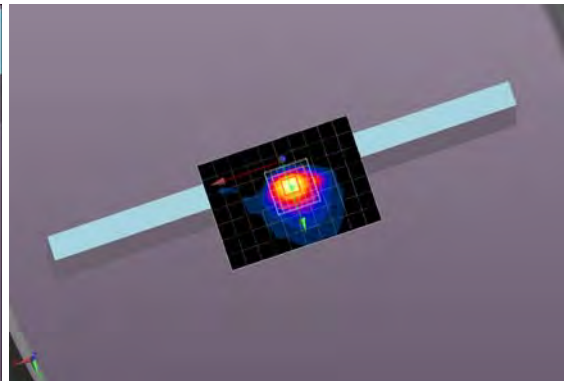
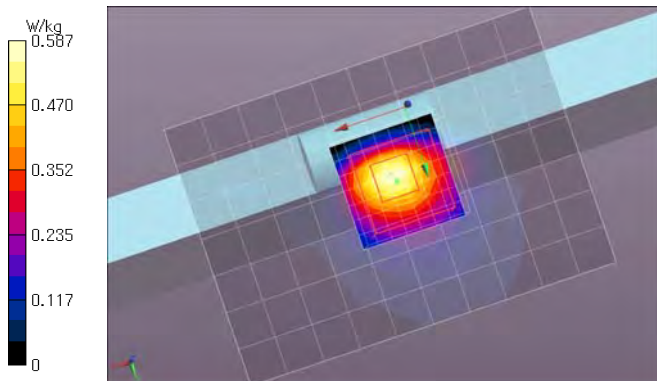
Area:100x70,stp10 (11x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.587 W/kg

Area:100x70,stp10 (101x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.692 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 12.15 V/m; Power Drift = -0.11 dB; Maximum value of SAR (measured) = 0.587 W/kg; Peak SAR (extrapolated) = 0.911 W/kg

SAR(1 g) = 0.250 W/kg; SAR(10 g) = 0.084 W/kg



Remarks: *. Date tested: 2017/01/30; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (45 ± 10) %RH,
*. liquid temperature: 22.6(start)/22.6(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

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Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 3b-3: (Head SAR) Right & touch, 11n(40HT), 5550 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5550 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5550$ MHz; $\sigma = 4.838$ S/m; $\epsilon_r = 35.27$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w56,side,front/5h21,56h7,h5550,mode3/bw40;ch/side&d0,n40(m0)

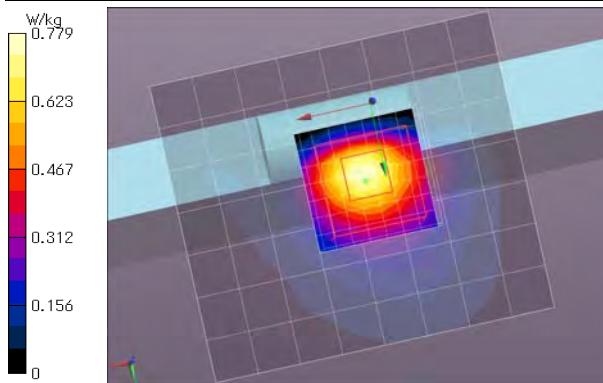
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.743 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.941 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 13.99 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 0.779 W/kg; Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.337 W/kg; SAR(10 g) = 0.114 W/kg



Remarks: *. Date tested: 2017/01/30; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (45 ± 10) %RH,
*. liquid temperature: 22.6(start)/22.7(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 3b-4: (Head SAR) Right & touch, 11n(40HT), 5510 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5510 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5510$ MHz; $\sigma = 4.776$ S/m; $\epsilon_r = 35.4$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w56,side,front/5h22,56h8,h5510,mode3/bw40;ch/side&d0,n40(m0)

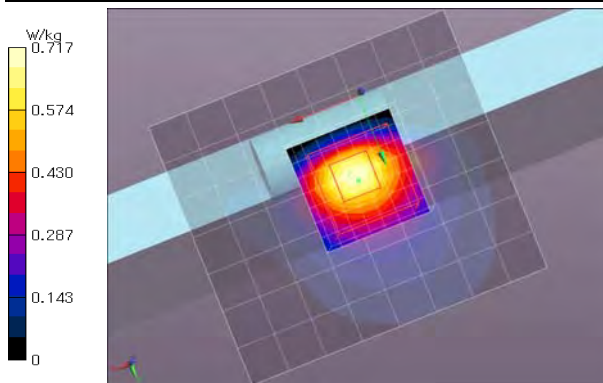
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.729 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.911 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 13.81 V/m; Power Drift = -0.09 dB; Maximum value of SAR (measured) = 0.717 W/kg; Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.108 W/kg



Remarks: *. Date tested: 2017/01/30; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (45 ± 10) %RH,
*. liquid temperature: 22.7(start)/22.7(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 3b-5: (Head SAR) Front (Patient side) & touch, 11n(40HT), 5550 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5550 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5550$ MHz; $\sigma = 4.838$ S/m; $\epsilon_r = 35.27$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w56,side,front/5h29,56h15,h5550,mode3;front(patient)&d0,n40(m0)/

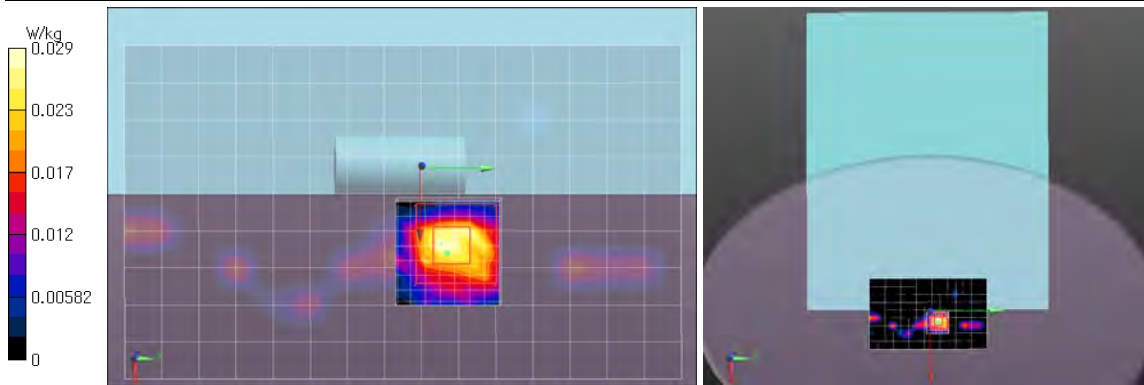
Area:90x150,stp10 (10x16x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.0318 W/kg

Area:90x150,stp10 (91x151x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.0419 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 2.419 V/m; Power Drift = -0.20 dB; Maximum value of SAR (measured) = 0.0291 W/kg; Peak SAR (extrapolated) = 0.166 W/kg

SAR(1 g) = 0.010 W/kg; SAR(10 g) = 0.00187 W/kg



Remarks: * Date tested: 2017/01/30; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (45 ± 10) %RH,
* liquid temperature: 22.7(start)/22.7(end)/22.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Plot 3b-6: (Head SAR) Right & touch, 11a, 5580 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5580 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5580$ MHz; $\sigma = 4.877$ S/m; $\epsilon_r = 35.28$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w56,side,front/5h24,56h10,h5580,mode1;side&d0,a(6m)/

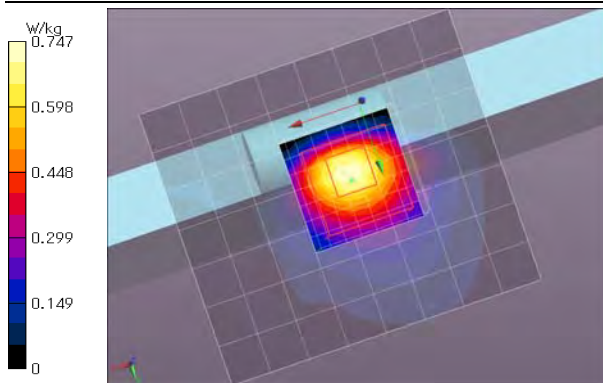
Area:80x70,stp10 (9x8x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.716 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.909 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 13.78 V/m; Power Drift = -0.01 dB; Maximum value of SAR (measured) = 0.747 W/kg; Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.325 W/kg; SAR(10 g) = 0.110 W/kg



Remarks: * Date tested: 2017/01/30; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (45 ± 10) %RH,
* liquid temperature: 22.7(start)/22.7(end)/22.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 3b-7: (Head SAR) Right & touch, 11n(20HT), 5580 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5580 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5580$ MHz; $\sigma = 4.877$ S/m; $\epsilon_r = 35.28$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w56,side,front/5h25,56h11,h5580,mode2;side&d0,n20(m0)/

Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.818 W/kg

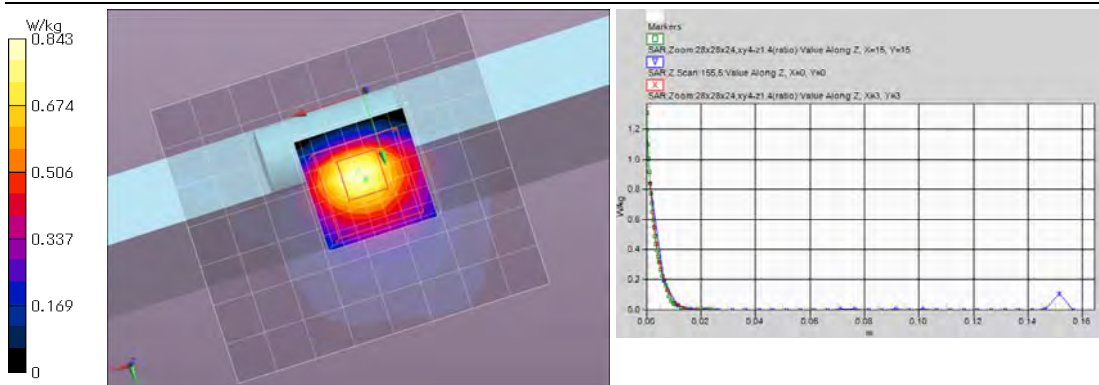
Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.07 W/kg

Z Scan:155,5 (1x1x32): Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 0.839 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 14.58 V/m; Power Drift = -0.09 dB; Maximum value of SAR (measured) = 0.843 W/kg; Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.364 W/kg; SAR(10 g) = 0.123 W/kg



Remarks: *. Date tested: 2017/01/30; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (45 ± 10) %RH,
*. liquid temperature: 22.7(start)/22.7(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 3b-8: (Head SAR) Right & touch, 11n(20HT), 5700 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5700 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5700$ MHz; $\sigma = 4.978$ S/m; $\epsilon_r = 35.12$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w56,side,front/5h28,56h14,h5700,mode2;side&d0,n20(m0)/

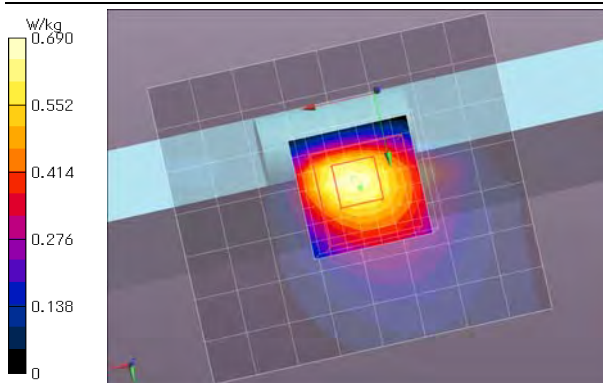
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.706 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.874 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 12.94 V/m; Power Drift = -0.07 dB; Maximum value of SAR (measured) = 0.690 W/kg; Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.299 W/kg; SAR(10 g) = 0.107 W/kg



Remarks: *. Date tested: 2017/01/30; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (45 ± 10) %RH,
*. liquid temperature: 22.7(start)/22.7(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 3b-9: (Head SAR) Right & touch, 11n(20HT), 5600 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5600 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5600$ MHz; $\sigma = 4.88$ S/m; $\epsilon_r = 35.25$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w56,side,front/5h26,56h12,h5600,mode2;side&d0,n20(m0)

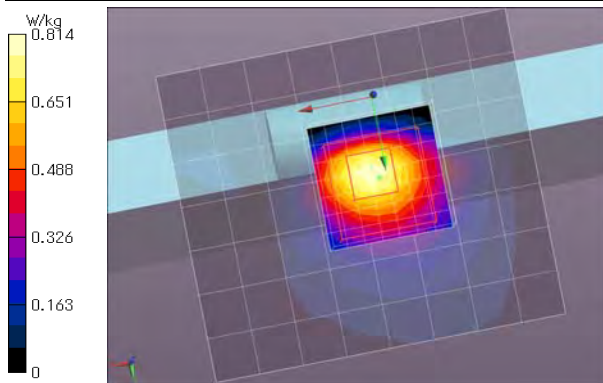
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.787 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.06 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 14.40 V/m; Power Drift = -0.19 dB; Maximum value of SAR (measured) = 0.814 W/kg; Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.354 W/kg; SAR(10 g) = 0.121 W/kg



Remarks: *. Date tested: 2017/01/30; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (45 ± 10) %RH,
*. liquid temperature: 22.7(start)/22.7(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 3b-10: (Head SAR) Right & touch, 11n(20HT), 5500 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5500 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5500$ MHz; $\sigma = 4.753$ S/m; $\epsilon_r = 35.42$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w56,side,front/5h27,56h13,h5500,mode2;side&d0,n20(m0)

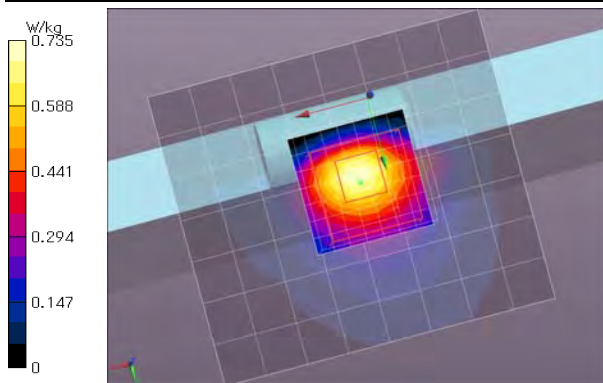
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.730 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.879 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 13.90 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 0.735 W/kg; Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.108 W/kg



Remarks: *. Date tested: 2017/01/30; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23.5~25) deg.C. / (45 ± 10) %RH,
*. liquid temperature: 22.7(start)/22.7(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 3c-1: (Hand SAR(10g)) Back & touch, 11n(40HT), 5670 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode:n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5670 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5670$ MHz; $\sigma = 6.045$ S/m; $\epsilon_r = 46.49$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

hand-sar(10g),w56,back/5b35,56b3,mode3;ch/back&d0,n40(m0),b5670/

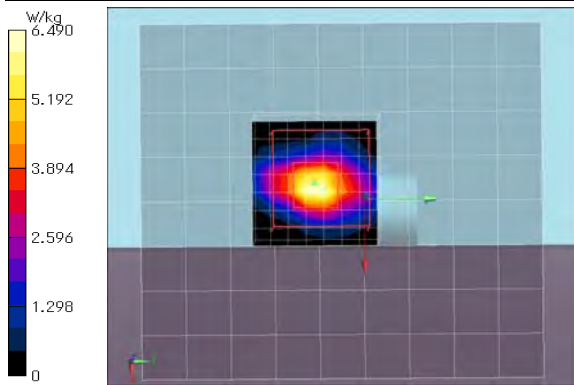
Area:80x90,stp10 (9x10x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 5.49 W/kg

Area:80x90,stp10 (81x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 7.59 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 40.26 V/m; Power Drift = -0.06 dB; Maximum value of SAR (measured) = 6.49 W/kg; Peak SAR (extrapolated) = 11.4 W/kg

SAR(1 g) = 2.39 W/kg; SAR(10 g) = 0.567 W/kg



Remarks: *. Date tested: 2017/01/18; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 22.9(start)/22.9(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 3c-2: (Hand SAR(10g)) Back & touch, 11n(40HT), 5590 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode:n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5590 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5590$ MHz; $\sigma = 5.924$ S/m; $\epsilon_r = 46.71$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

hand-sar(10g),w56,back/5b34,56b2,mode3;back&d0,n40(m0),b5590/

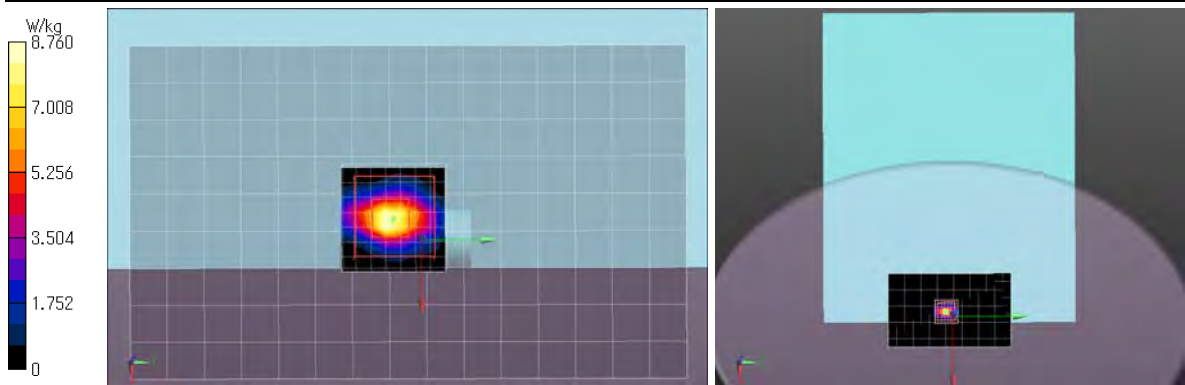
Area:90x150,stp10 (10x16x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 7.84 W/kg

Area:90x150,stp10 (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 10.7 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 47.12 V/m; Power Drift = -0.06 dB; Maximum value of SAR (measured) = 8.76 W/kg; Peak SAR (extrapolated) = 15.9 W/kg

SAR(1 g) = 3.29 W/kg; SAR(10 g) = 0.790 W/kg



Remarks: *. Date tested: 2017/01/18; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 22.9(start)/22.9(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 3c-3: (Hand SAR(10g)) Back & touch, 11n(40HT), 5550 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode:n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5550 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5550$ MHz; $\sigma = 5.878$ S/m; $\epsilon_r = 46.83$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

hand-sar(10g),w56,back/5b37,56b5,mode3;ch/back&d0,n40(m0),b5550/

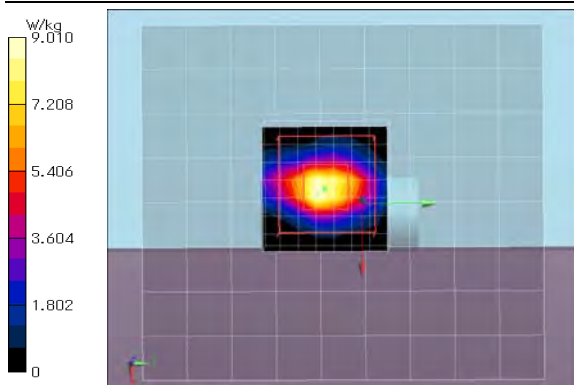
Area:80x90,stp10 (9x10x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 8.10 W/kg

Area:80x90,stp10 (81x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 10.7 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 48.71 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 9.01 W/kg; Peak SAR (extrapolated) = 16.4 W/kg

SAR(1 g) = 3.46 W/kg; SAR(10 g) = 0.820 W/kg



Remarks: * Date tested: 2017/01/18; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* liquid temperature: 22.9(start)/22.9(end)/23.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Plot 3c-4: (Hand SAR(10g)) Back & touch, 11n(40HT), 5510 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode:n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5510 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5510$ MHz; $\sigma = 5.805$ S/m; $\epsilon_r = 46.75$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

hand-sar(10g),w56,back/5b36,56b4,mode3;ch/back&d0,n40(m0),b5510/

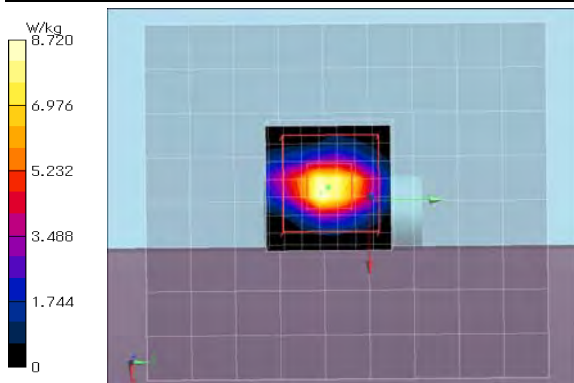
Area:80x90,stp10 (9x10x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 7.73 W/kg

Area:80x90,stp10 (81x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 10.3 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 48.17 V/m; Power Drift = -0.03 dB; Maximum value of SAR (measured) = 8.72 W/kg; Peak SAR (extrapolated) = 15.9 W/kg

SAR(1 g) = 3.36 W/kg; SAR(10 g) = 0.782 W/kg



Remarks: * Date tested: 2017/01/18; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* liquid temperature: 22.9(start)/22.9(end)/23.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 3c-5: (Hand SAR(10g)) Back & touch, 11n(20HT), 5580 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode:n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5580 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5580$ MHz; $\sigma = 5.917$ S/m; $\epsilon_r = 46.71$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

hand-sar(10g),w56,back/5b39,56b7,mode2;back&d0,n20(m0),b5580/

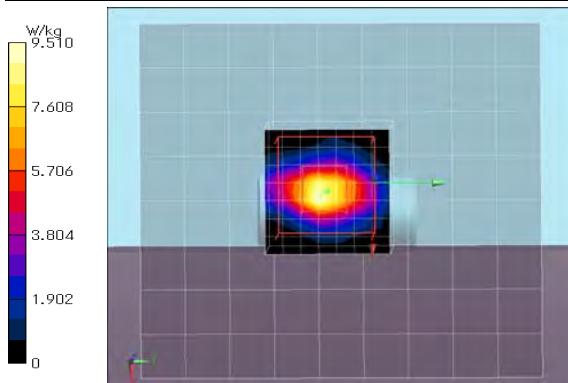
Area:80x90,stp10 (9x10x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 11.8 W/kg

Area:80x90,stp10 (81x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 13.4 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 47.90 V/m; Power Drift = -0.08 dB; Maximum value of SAR (measured) = 9.51 W/kg; Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 3.48 W/kg; SAR(10 g) = 0.837 W/kg



Remarks: *. Date tested: 2017/01/18; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 22.9(start)/23.0(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Plot 3c-6: (Hand SAR(10g)) Back & touch, 11a, 5580 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode:11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5580 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5580$ MHz; $\sigma = 5.917$ S/m; $\epsilon_r = 46.71$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

hand-sar(10g),w56,back/re5b38,re56b6,mode2;back&d0,a(6m),b5580/

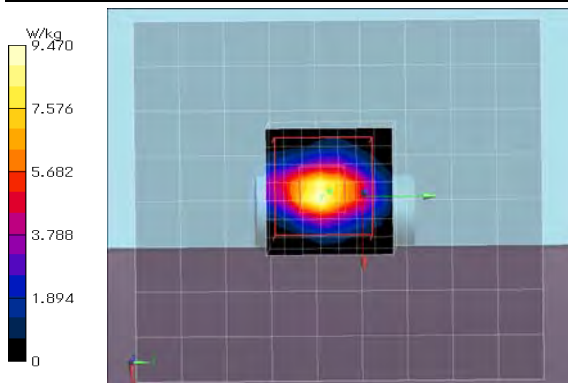
Area:80x90,stp10 (9x10x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 11.6 W/kg

Area:80x90,stp10 (81x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 13.3 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 46.40 V/m; Power Drift = -0.08 dB; Maximum value of SAR (measured) = 9.47 W/kg; Peak SAR (extrapolated) = 16.6 W/kg

SAR(1 g) = 3.48 W/kg; SAR(10 g) = 0.834 W/kg



Remarks: *. Date tested: 2017/01/18; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.0(start)/23.0(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 3c-8: (Hand SAR(10g)) Back & touch, 11a, 5700 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5700 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5700$ MHz; $\sigma = 6.063$ S/m; $\epsilon_r = 46.56$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

hand-sar(10g),w56,back/5b41,56b9,model1;ch/back&d0,a(6m),b5700/

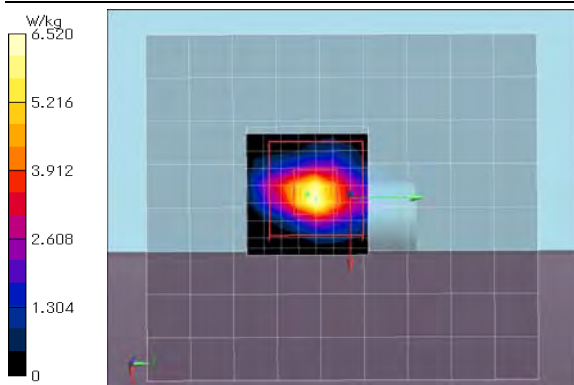
Area:80x90,stp10 (9x10x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 7.01 W/kg

Area:80x90,stp10 (81x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 9.46 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 39.28 V/m; Power Drift = -0.09 dB; Maximum value of SAR (measured) = 6.52 W/kg; Peak SAR (extrapolated) = 11.4 W/kg

SAR(1 g) = 2.32 W/kg; SAR(10 g) = 0.548 W/kg



Remarks: *. Date tested: 2017/01/18; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.0(start)/23.1(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Plot 3c-9: (Hand SAR(10g)) Back & touch, 11a, 5600 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5600 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5600$ MHz; $\sigma = 5.968$ S/m; $\epsilon_r = 46.61$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

hand-sar(10g),w56,back/5b42,56b10,model1;ch/back&d0,a(6m),b5600/

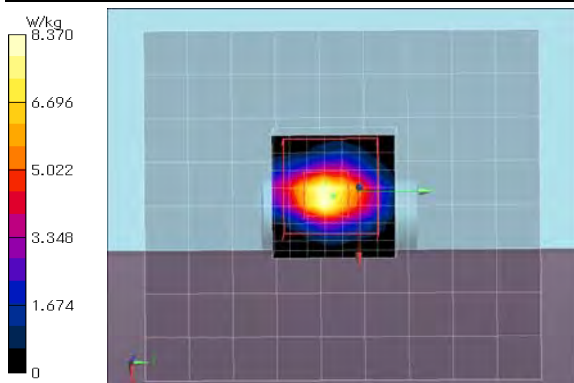
Area:80x90,stp10 (9x10x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 8.20 W/kg

Area:80x90,stp10 (81x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 10.4 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 44.82 V/m; Power Drift = -0.06 dB; Maximum value of SAR (measured) = 8.37 W/kg; Peak SAR (extrapolated) = 15.3 W/kg

SAR(1 g) = 3.17 W/kg; SAR(10 g) = 0.761 W/kg



Remarks: *. Date tested: 2017/01/18; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.1(start)/23.2(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 4a-1: (Body SAR) Back & touch, 11n(40HT), 5755 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5755 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5755$ MHz; $\sigma = 6.142$ S/m; $\epsilon_r = 46.43$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.74, 3.74, 3.74); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w58/5b22,58b2,mode3/bw40;side&d0,n40(m0),b5755/

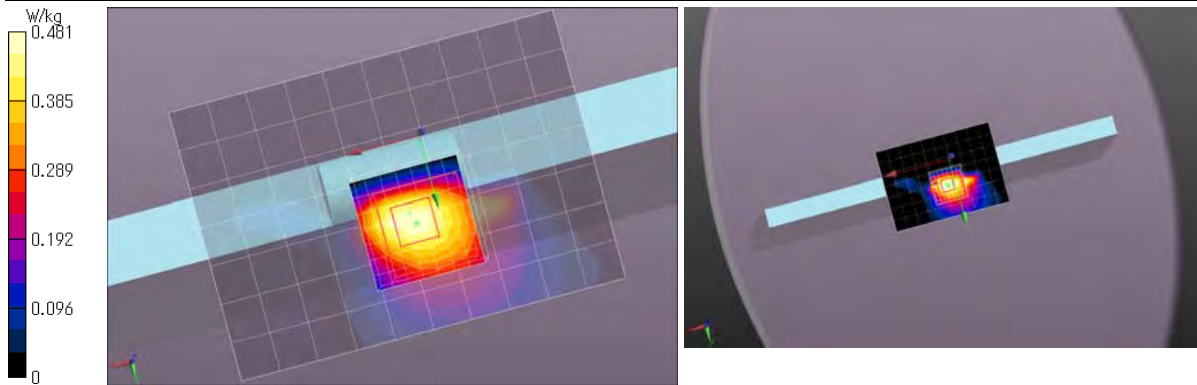
Area:100x70,stp10 (11x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.477 W/kg

Area:100x70,stp10 (101x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.677 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 10.42 V/m; Power Drift = 0.00 dB; Maximum value of SAR (measured) = 0.481 W/kg; Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 0.204 W/kg; SAR(10 g) = 0.075 W/kg



Remarks: * Date tested: 2017/01/17; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* liquid temperature: 23.0(start)/22.9(end)/23.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Plot 4a-2: (Body SAR) Back & touch, 11n(40HT), 5795 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5795 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5795$ MHz; $\sigma = 6.213$ S/m; $\epsilon_r = 46.37$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.74, 3.74, 3.74); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w58/5b23,58b3,mode3/bw40;ch/side&d0,n40(m0),b5795/

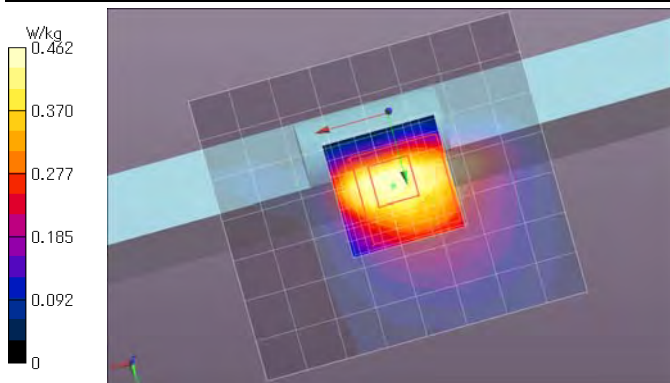
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.474 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.576 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 10.11 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 0.462 W/kg; Peak SAR (extrapolated) = 0.707 W/kg

SAR(1 g) = 0.193 W/kg; SAR(10 g) = 0.071 W/kg



Remarks: * Date tested: 2017/01/17; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* liquid temperature: 22.9(start)/22.8(end)/23.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 4a-3: (Body SAR) Front (Patient side) & touch, 11n(40HT), 5755 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5755 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5755$ MHz; $\sigma = 6.142$ S/m; $\epsilon_r = 46.43$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.74, 3.74, 3.74); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch/5b11,58b1,mode3;front(patient)&d0,n40(m0),b5755/

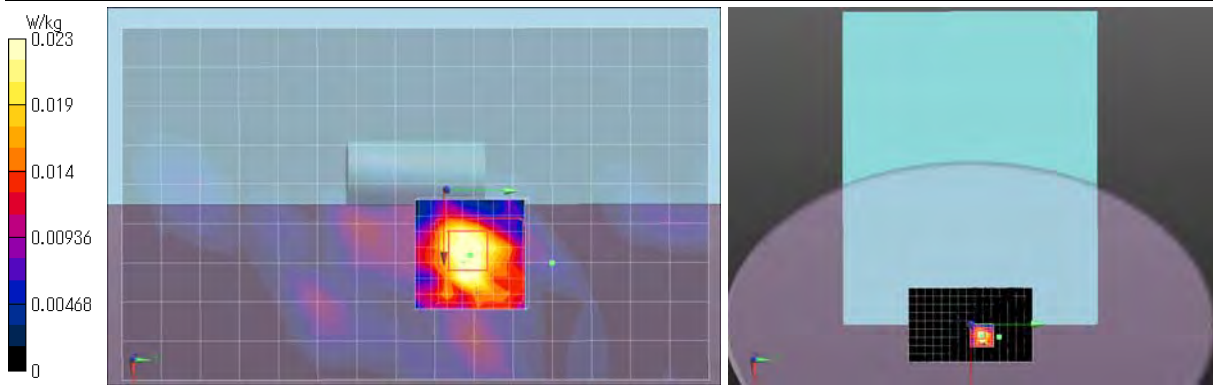
Area:90x150,stp10 (10x16x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.0144 W/kg

Area:90x150,stp10 (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.00644 W/kg

Zoom:pk1:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 2.263 V/m; Power Drift = -0.20 dB; Maximum value of SAR (measured) = 0.0234 W/kg; Peak SAR (extrapolated) = 0.153 W/kg

SAR(1 g) = 0.00758 W/kg; SAR(10 g) = 0.00126 W/kg



Remarks: * Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* liquid temperature: 22.7(start)/22.7(end)/23.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 4a-4: (Body SAR) Right & touch, 11a, 5825 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5825 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5825$ MHz; $\sigma = 6.26$ S/m; $\epsilon_r = 46.25$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.74, 3.74, 3.74); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w58/5b24,58b4,mode1;side&d0,a(6m),b5825/

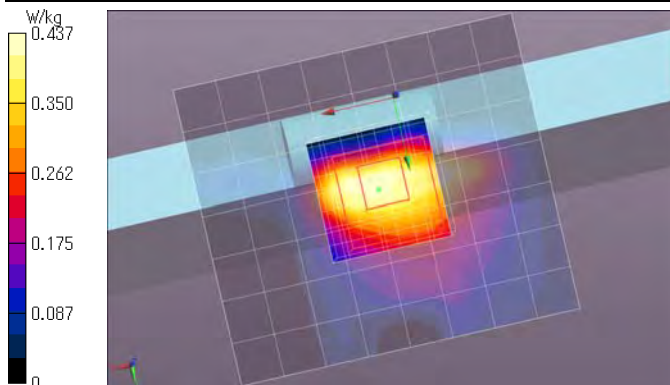
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.441 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.530 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 9.929 V/m; Power Drift = -0.08 dB; Maximum value of SAR (measured) = 0.437 W/kg; Peak SAR (extrapolated) = 0.666 W/kg

SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.066 W/kg



Remarks: * Date tested: 2017/01/17; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* liquid temperature: 22.8(start)/22.8(end)/23.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 4a-5: (Body SAR) Right & touch, 11n(20HT), 5825 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5825 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5825$ MHz; $\sigma = 6.26$ S/m; $\epsilon_r = 46.25$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.74, 3.74, 3.74); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w58/5b25,58b5,mode2;side&d0,n20(m0),b5825/

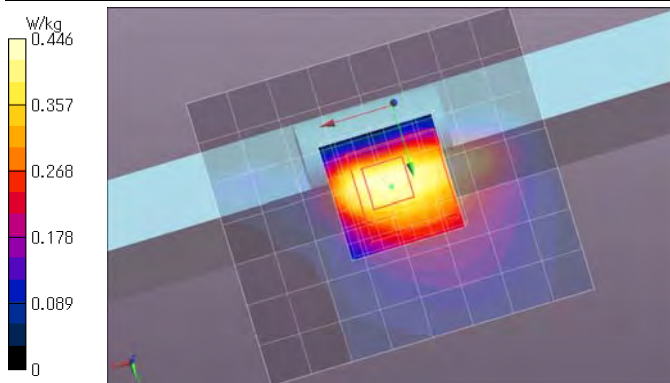
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.454 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.537 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 9.855 V/m; Power Drift = -0.05 dB; Maximum value of SAR (measured) = 0.446 W/kg; Peak SAR (extrapolated) = 0.678 W/kg

SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.067 W/kg



Remarks: *. Date tested: 2017/01/17; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 22.8(start)/22.9(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g) / small-SAR(1g)

Plot 4a-6: (Body SAR) Right & touch, 11n(20HT), 5785 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5785 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5785$ MHz; $\sigma = 6.21$ S/m; $\epsilon_r = 46.37$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.74, 3.74, 3.74); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w58/5b26,58b6,mode2;ch/side&d0,n20(m0),b5785/

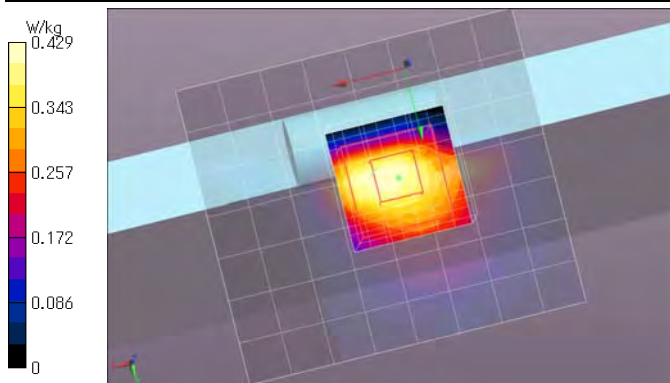
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.442 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.552 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 9.676 V/m; Power Drift = -0.06 dB; Maximum value of SAR (measured) = 0.429 W/kg; Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.064 W/kg



Remarks: *. Date tested: 2017/01/17; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 22.9(start)/22.9(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g) / small-SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 4a-7: (Body SAR) Right & touch, 11n(20HT), 5745 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5745 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5745$ MHz; $\sigma = 6.155$ S/m; $\epsilon_r = 46.38$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.74, 3.74, 3.74); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0, 156.0

-Electronics: DAE4 Sn626; Calibrated: 2016/10/13

-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

body-touch,w58/5b27,58b7,mode2;ch/side&d0,n20(m0),b5745/

Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.517 W/kg

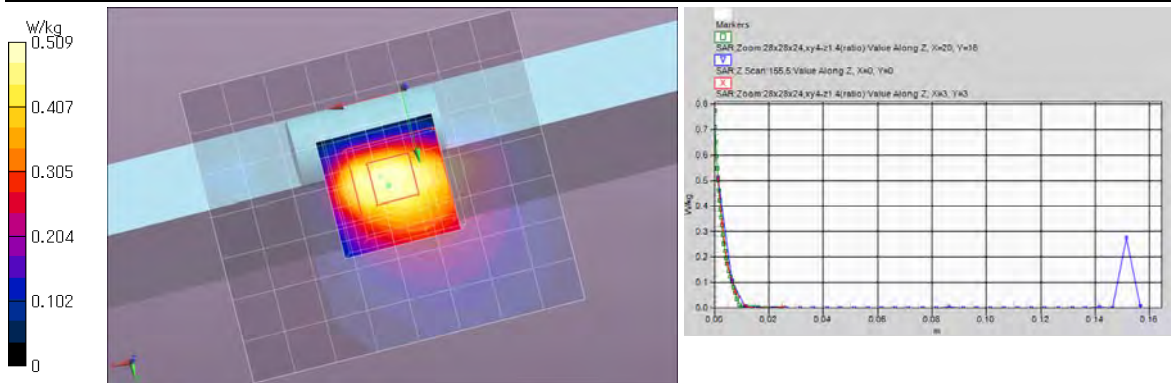
Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.633 W/kg

Z Scan:155,5 (1x1x32): Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 0.511 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 10.70 V/m; Power Drift = -0.05 dB; Maximum value of SAR (measured) = 0.509 W/kg; Peak SAR (extrapolated) = 2.16 W/kg

SAR(1 g) = 0.218 W/kg; SAR(10 g) = 0.079 W/kg



Remarks: * . Date tested: 2017/01/17; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* . liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* . liquid temperature: 22.9(start)/22.9(end)/23.4(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g) /small=SAR(1g)

Plot 4b-1: (Head SAR(10g)) Back & touch, 11n(40HT), 5755 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5755 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5755$ MHz; $\sigma = 5.032$ S/m; $\epsilon_r = 34.86$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.1, 4.1, 4.1); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

-Electronics: DAE4 Sn626; Calibrated: 2016/10/13

-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w58,side,front/5h7,58h7,h5755,mode3/bw40;side&d0,n40(m0)/

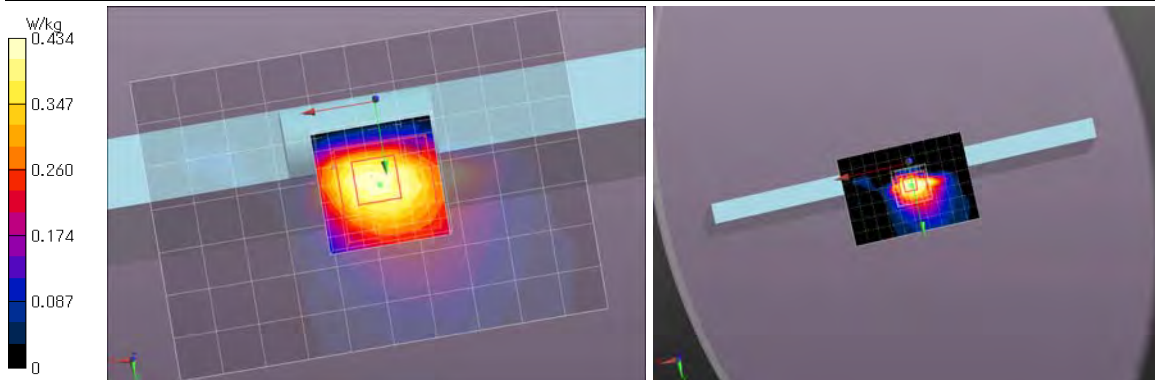
Area:100x70,stp10 (11x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.437 W/kg

Area:100x70,stp10 (101x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.631 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 10.57 V/m; Power Drift = -0.10 dB; Maximum value of SAR (measured) = 0.434 W/kg; Peak SAR (extrapolated) = 0.935 W/kg

SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.070 W/kg



Remarks: * . Date tested: 2017/01/24; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* . liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
* . liquid temperature: 22.4(start)/22.4(end)/22.8(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g) /small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 4b-2: (Head SAR) Right & touch, 11n(20HT), 5795 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5795 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5795$ MHz; $\sigma = 5.048$ S/m; $\epsilon_r = 34.80$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.1, 4.1, 4.1); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w58,side,front/5h8,58h8,h5795,mode3/bw40;ch/side&d0,n40(m0)/

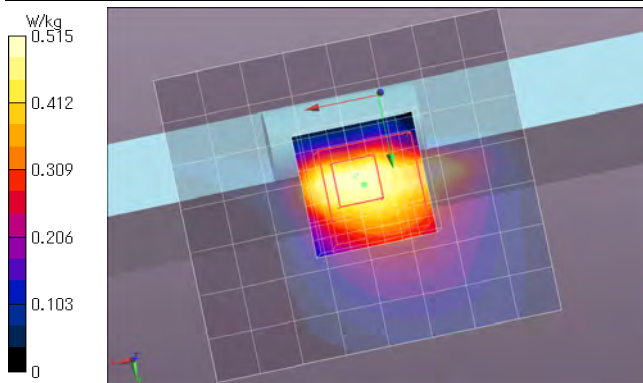
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.516 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.643 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 11.42 V/m; Power Drift = -0.09 dB; Maximum value of SAR (measured) = 0.515 W/kg; Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.084 W/kg



Remarks: *. Date tested: 2017/01/24; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
*. liquid temperature: 22.4(start)/22.4(end)/22.8(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 4b-3: (Head SAR) Front (Patient side) & touch, 11n(20HT), 5755 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5755 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5755$ MHz; $\sigma = 5.032$ S/m; $\epsilon_r = 34.86$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.1, 4.1, 4.1); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w58,side,front/5h13,58h13,h5755,mode3;front(patient)&d0,n40(m0)/

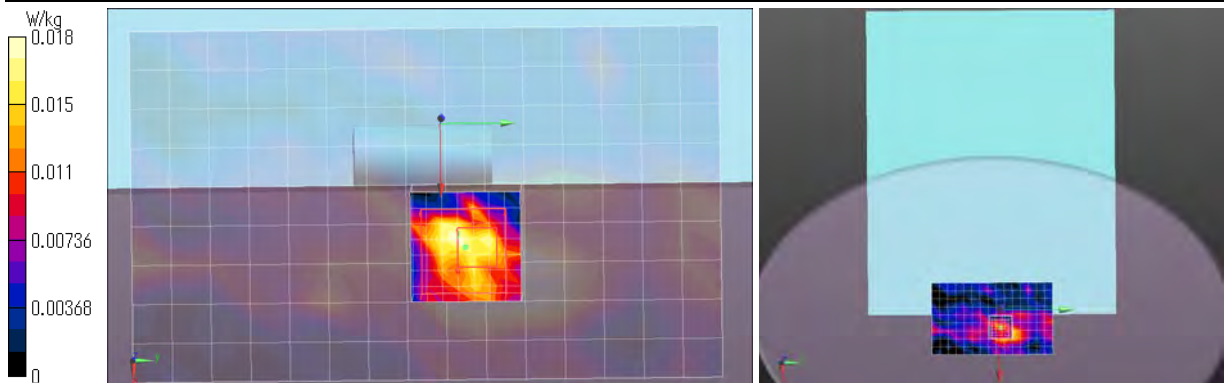
Area:90x150,stp10 (10x16x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.0265 W/kg

Area:90x150,stp10 (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.0398 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 1.794 V/m; Power Drift = -0.20 dB; Maximum value of SAR (measured) = 0.0184 W/kg; Peak SAR (extrapolated) = 0.0840 W/kg

SAR(1 g) = 0.00284 W/kg; SAR(10 g) = 0.000539 W/kg



Remarks: *. Date tested: 2017/01/24; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
*. liquid temperature: 22.4(start)/22.4(end)/22.8(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 4b-4: (Head SAR) Right & touch, 11n(20HT), 5825 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5825 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5825$ MHz; $\sigma = 5.082$ S/m; $\epsilon_r = 34.75$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.1, 4.1, 4.1); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w58,side,front/5h10,58h10,h5825,mode2;side&d0,n20(m0)

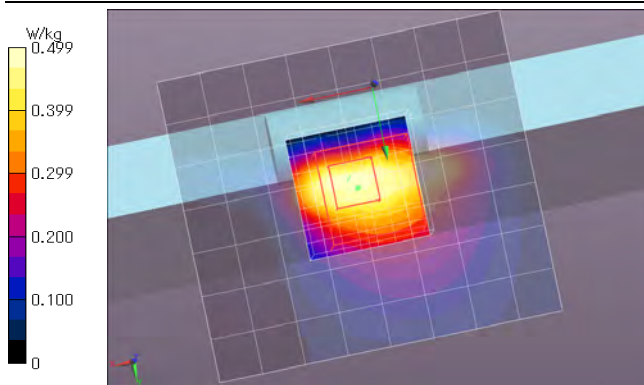
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.496 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.593 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 11.11 V/m; Power Drift = -0.03 dB; Maximum value of SAR (measured) = 0.499 W/kg; Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.216 W/kg; SAR(10 g) = 0.082 W/kg



Remarks: *. Date tested: 2017/01/24; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
*. liquid temperature: 22.4(start)/22.4(end)/22.8(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 4b-5: (Head SAR) Right & touch, 11a, 5825 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5825 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5825$ MHz; $\sigma = 5.082$ S/m; $\epsilon_r = 34.75$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.1, 4.1, 4.1); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w58,side,front/5h9,58h9,h5825,mode1;side&d0,a(6m)

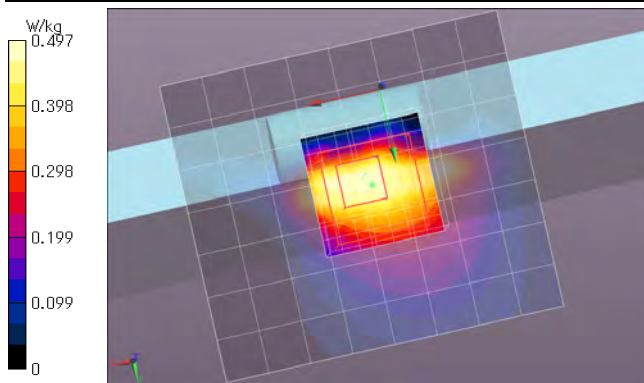
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.494 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.615 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 11.09 V/m; Power Drift = -0.06 dB; Maximum value of SAR (measured) = 0.497 W/kg; Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.215 W/kg; SAR(10 g) = 0.081 W/kg



Remarks: *. Date tested: 2017/01/24; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
*. liquid temperature: 22.4(start)/22.4(end)/22.8(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 4b-6: (Head SAR) Right & touch, 11a, 5785 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5785 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5785$ MHz; $\sigma = 5.053$ S/m; $\epsilon_r = 34.90$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.1, 4.1, 4.1); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w58,side,front/5h11,58h11,h5785,model1;ch/side&d0,a(6m)

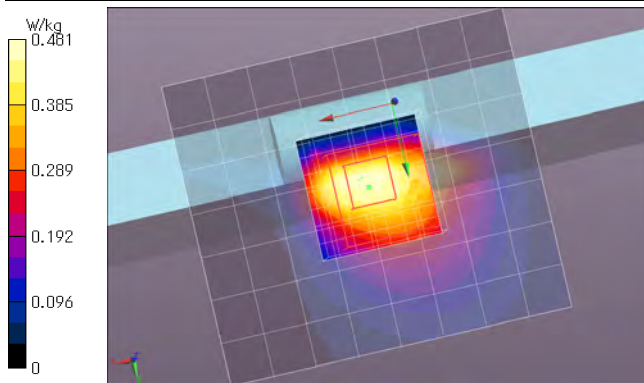
Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.480 W/kg

Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.577 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 10.98 V/m; Power Drift = -0.09 dB; Maximum value of SAR (measured) = 0.481 W/kg; Peak SAR (extrapolated) = 0.825 W/kg

SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.078 W/kg



Remarks: * . Date tested: 2017/01/24; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* . liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
* . liquid temperature: 22.4(start)/22.4(end)/22.8(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 4b-7: (Head SAR) Right & touch, 11a, 5745 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5745 MHz; Crest Factor: 1.0

Medium: HSL5GHz(1701); Medium parameters used: $f = 5745$ MHz; $\sigma = 5.009$ S/m; $\epsilon_r = 34.91$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.1, 4.1, 4.1); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0, 156.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

w58,side,front/5h12,58h12,h5745,model1;ch/side&d0,a(6m)

Area:80x70,stp10 (9x8x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.562 W/kg

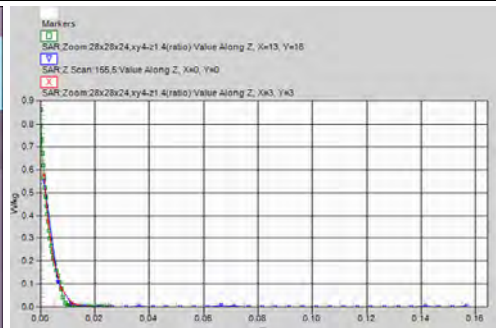
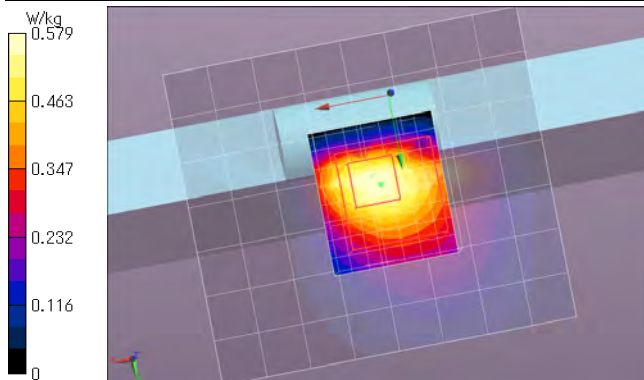
Area:80x70,stp10 (81x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.737 W/kg

Z Scan:155.5 (1x1x32): Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 0.550 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 12.10 V/m; Power Drift = -0.10 dB; Maximum value of SAR (measured) = 0.579 W/kg; Peak SAR (extrapolated) = 0.878 W/kg

SAR(1 g) = 0.252 W/kg; SAR(10 g) = 0.094 W/kg



Remarks: * . Date tested: 2017/01/24; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* . liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24~25) deg.C. / (30~40) %RH,
* . liquid temperature: 22.4(start)/22.4(end)/22.8(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 4c-1: (Hand SAR(10g)) Back & touch, 11n(40HT), 5755 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5755 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5755$ MHz; $\sigma = 6.142$ S/m; $\epsilon_r = 46.43$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.74, 3.74, 3.74); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

hand-sar(10g),w58,back/5b28,58b8,mode3;back&d0,n40(m0),b5755/

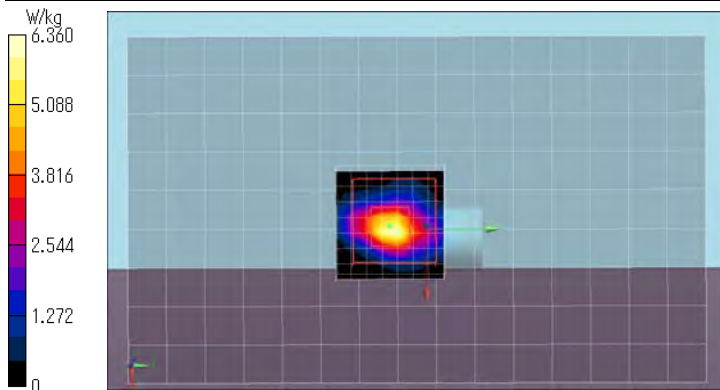
Area:90x150,stp10 (10x16x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 6.55 W/kg

Area:90x150,stp10 (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 6.71 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 38.94 V/m; Power Drift = -0.14 dB; Maximum value of SAR (measured) = 6.36 W/kg; Peak SAR (extrapolated) = 11.0 W/kg

SAR(1 g) = 2.22 W/kg; SAR(10 g) = 0.513 W/kg



Remarks: * Date tested: 2017/01/17; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* liquid temperature: 22.9(start)/23.0(end)/23.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 4c-2: (Hand SAR(10g)) Back & touch, 11n(40HT), 5795 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: n40(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5795 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5795$ MHz; $\sigma = 6.213$ S/m; $\epsilon_r = 46.37$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.74, 3.74, 3.74); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

hand-sar(10g),w58,back/5b29,58b9,mode3;ch/back&d0,n40(m0),b5795/

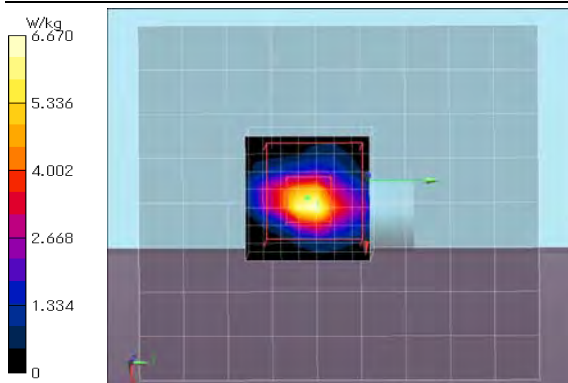
Area:80x90,stp10 (9x10x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 6.75 W/kg

Area:80x90,stp10 (81x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 6.92 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 38.93 V/m; Power Drift = -0.11 dB; Maximum value of SAR (measured) = 6.67 W/kg; Peak SAR (extrapolated) = 11.6 W/kg

SAR(1 g) = 2.29 W/kg; SAR(10 g) = 0.522 W/kg



Remarks: * Date tested: 2017/01/17; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* liquid temperature: 23.0(start)/23.0(end)/23.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 4c-3: (Hand SAR(10g)) Back & touch, 11n(20HT), 5825 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)
Mode:n20(MCS0,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5825 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5825$ MHz; $\sigma = 6.26$ S/m; $\epsilon_r = 46.25$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.74, 3.74, 3.74); Calibrated: 2016/03/15; -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

hand-sar(10g),w58,back 2/5b31,58b11,mode2;back&d0,n20(m0),b5825/

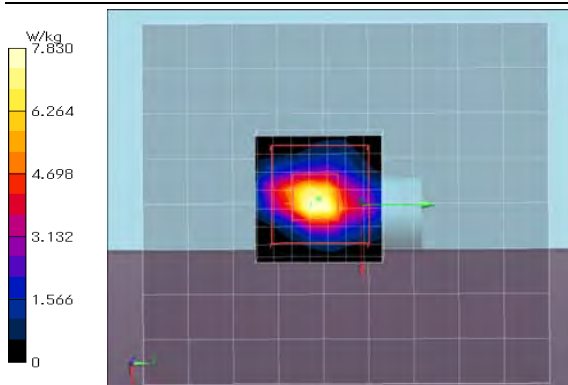
Area:80x90,stp10 (9x10x1); Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 8.34 W/kg

Area:80x90,stp10 (81x91x1); Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 8.57 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0; Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 44.61 V/m; Power Drift = -0.15 dB; Maximum value of SAR (measured) = 7.83 W/kg; Peak SAR (extrapolated) = 14.5 W/kg

SAR(1 g) = 2.87 W/kg; SAR(10 g) = 0.657 W/kg



Remarks: *. Date tested: 2017/01/17; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.3(start)/23.2(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g)/small-SAR(1g)

Plot 4c-4: (Hand SAR(10g)) Back & touch, 11a, 5825 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)
Mode:11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5825 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5825$ MHz; $\sigma = 6.26$ S/m; $\epsilon_r = 46.25$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.74, 3.74, 3.74); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0, 156.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

hand-sar(10g),w58,back 2/5b30,58b10,mode1;back&d0,a(6m),b5825/

Area:80x90,stp10 (9x10x1); Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 8.53 W/kg

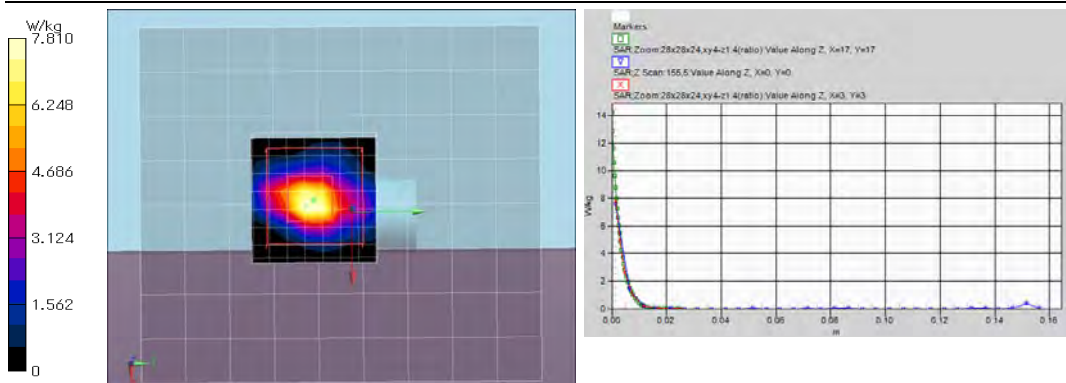
Area:80x90,stp10 (81x91x1); Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 8.80 W/kg

Z Scan:155,5 (1x1x32); Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 7.58 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0; Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 44.80 V/m; Power Drift = -0.14 dB; Maximum value of SAR (measured) = 7.81 W/kg; Peak SAR (extrapolated) = 14.2 W/kg

SAR(1 g) = 2.86 W/kg; SAR(10 g) = 0.656 W/kg



Remarks: *. Date tested: 2017/01/17; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
*. liquid temperature: 23.4(start)/23.3(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g)/small-SAR(1g)

Appendix 2-2: Measurement data / Other SAR data plots for 2.4GHz band (Step 1) and 5GHz band (Step 2~4). (cont'd)

Step 2 ~ Step 4: 5GHz band (UNII)

Plot 4c-5: (Hand SAR(10g)) Back & touch, 11a, 5785 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5785 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5785$ MHz; $\sigma = 6.21$ S/m; $\epsilon_r = 46.37$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.74, 3.74, 3.74); Calibrated: 2016/03/15; -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

hand-sar(10g),w58,back 2/5b32,58b12,ch(mode1;back&d0,a(6m),b5785/

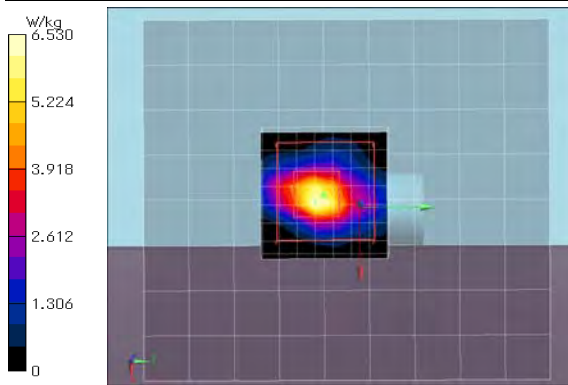
Area:80x90,stp10 (9x10x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 6.50 W/kg

Area:80x90,stp10 (81x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 6.67 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 39.60 V/m; Power Drift = -0.16 dB; Maximum value of SAR (measured) = 6.53 W/kg; Peak SAR (extrapolated) = 11.6 W/kg

SAR(1 g) = 2.28 W/kg; SAR(10 g) = 0.525 W/kg



Remarks: * Date tested: 2017/01/17; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* liquid temperature: 23.2(start)/23.2(end)/23.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 4c-6: (Hand SAR(10g)) Back & touch, 11a, 5745 MHz

EUT: Wireless LAN module (in Digital Radiography); Type: BM72065 (CXDI-810C Wireless); Serial: 60128BCC1E6A (16DR-300)

Mode: 11a(6Mbps,BPSK/OFDM)(UID 0, Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5745 MHz; Crest Factor: 1.0

Medium: MSL5800(1701); Medium parameters used: $f = 5745$ MHz; $\sigma = 6.155$ S/m; $\epsilon_r = 46.38$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.74, 3.74, 3.74); Calibrated: 2016/03/15; -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

hand-sar(10g),w58,back 2/5b33,58b13,ch(mode1;back&d0,a(6m),b5745/

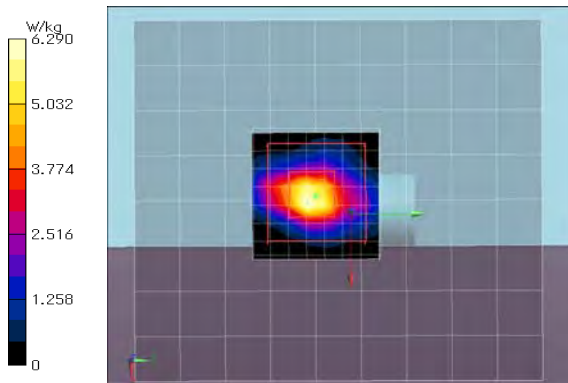
Area:80x90,stp10 (9x10x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 6.23 W/kg

Area:80x90,stp10 (81x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 6.41 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 39.35 V/m; Power Drift = -0.13 dB; Maximum value of SAR (measured) = 6.29 W/kg; Peak SAR (extrapolated) = 11.2 W/kg

SAR(1 g) = 2.26 W/kg; SAR(10 g) = 0.525 W/kg



Remarks: * Date tested: 2017/01/17; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 151 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (24 ± 1) deg.C. / (30~40) %RH,
* liquid temperature: 23.2(start)/23.1(end)/23.4(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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APPENDIX 3: Test instruments

Appendix 3-1: Equipment used

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
KPM-08	Power meter	Anritsu	ML2495A	6K00003356	AT	2016/09/05 * 12
KPSS-04	Power sensor	Anritsu	MA2411B	012088	AT	2016/09/05 * 12
KAT10-S3	Attenuator	Agilent	8490D 010	50924	AT	2015/12/24 * 12

*. AT (antenna terminal conducted power measurement) was measured December 19, 2016. (Refer to Section 6 in this report.)

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
COTS-SSAR-02	DASY52	Schmid&Partner Engineering AG	DASY52(ver.52.8.8(1222))	-	SAR	-
COTS-SSEP-02	Dielectric assessment kit	Schmid&Partner Engineering AG	DAK(ver1.10.317.11)	-	SAR	-
SSAR-02	SAR measurement system	Schmid&Partner Engineering AG	DASY5	1324	SAR	Pre Check
SSRBT-02	SAR robot	Schmid&Partner Engineering AG	TX60 Lspeag	F12/5L2QA1/A/01	SAR	2016/09/06 * 12
KDAE-01	Data Acquisition Electronics	Schmid&Partner Engineering AG	DAE4	626	SAR	2016/10/13 * 12
KPB-R02	Dosimetric E-Field Probe	Schmid&Partner Engineering AG	EX3DV4	7372	SAR	2016/03/15 * 12
SSDA-R01	Dipole Antenna	Schmid&Partner Engineering AG	D2450V2	894	SAR	2016/10/18 * 12
KSDA-02	Dipole Antenna	Schmid&Partner Engineering AG	D5GHzV2	1070	SAR	2016/03/10 * 12
KPFL-01	Flat Phantom	Schmid&Partner Engineering AG	Oval flat phantom ELI 4.0	1059	SAR	2016/08/25 * 12
SSNA-01	Network Analyzer	Agilent	8753ES	US39171777	SAR	2016/12/15 * 12
SEPP-02	Dielectric probe	Schmid&Partner Engineering AG	DAK3.5	1129	SAR	2016/08/16 * 12
KSG-08	Signal Generator	Rohde & Schwarz	SMT06	100763	SAR	2016/08/23 * 12
KPA-12	RF Power Amplifier	MILMEGA	AS2560-50	1018582	SAR	Pre Check
KCPL-07	Directional Coupler	Pulsar Microwave Corp.	CCS30-B26	0621	SAR	Pre Check
KPM-06	Power Meter	Rohde & Schwarz	NRVD	101599	SAR	2016/09/05 * 12
KIU-08	Power sensor	Rohde & Schwarz	NRV-Z4	100372	SAR	2016/09/05 * 12
KIU-09	Power sensor	Rohde & Schwarz	NRV-Z4	100371	SAR	2016/09/05 * 12
KAT10-P1	Attenuator	Weinschel	24-10-34	BY5927	SAR	2016/12/21 * 12
KPM-05	Power meter	Agilent	E4417A	GB41290718	SAR	2016/04/13 * 12
KPSS-01	Power sensor	Agilent	E9327A	US40440544	SAR	2016/04/13 * 12
SAT20-SAR1	Attenuator	TME	SFA-01AXPJ-20	-	SAR	2016/12/21 * 12
SCC-SAR2	Coaxial Cable	HUBER+SUHNER	SF104A/11PC3542/11N451/4M	MY699/4A	SAR	Pre Check
KRU-01	Ruler(300mm)	Shinwa	13134	-	SAR	2016/02/24 * 12
KRU-02	Ruler(150mm,L)	Shinwa	12103	-	SAR	2016/02/24 * 12
KRU-04	Ruler(300mm)	Shinwa	13134	-	SAR	2016/05/16 * 12
KRU-05	Ruler(100x50mm,L)	Shinwa	12101	-	SAR	2016/05/16 * 12
KOS-13	Digital thermometer	HANNA	Checktemp-2	KOS-13	SAR	2016/12/13 * 12
KOS-14	Thermo-Hygrometer data logger	SATO KEIRYOKI	SK-L200THII α / SK-LTHII α-2	015246/08169	SAR	2016/12/13 * 12
SOS-11	Humidity Indicator	A&D	AD-5681	4063424	SAR	2016/12/13 * 12
SOS-12	Digital thermometer	HANNA	Checktemp-4	SOS-12	SAR	2016/02/24 * 12
SOS-SAR1	Digital thermometer	LKMelectronic	DTM3000	3171	SAR	2016/10/28 * 12
SSA-04	Spectrum Analyzer	Advantest	R3272	101100994	SAR(mon.)	Pre Check
KSDH-01	Device holder	Schmid&Partner Engineering AG	Mounting device for transmitter	-	SAR	2016/09/06 * 12
SSDH-02	Laptop holder	Schmid&Partner Engineering AG	SM LH1 001 C	-	SAR	Pre Check
SWTR-03	DI water	MonotaRo	34557433	-	SAR	Pre Check
KSLH245-01	Tissue simulation liquid (2450MHz,head)	Schmid&Partner Engineering AG	HSL2450V2	SL AAH 245 BA	SAR	Pre Check
KSLH580-04	Tissue simulation liquid (5800MHz,head)	Schmid&Partner Engineering AG	HBBL3500-5800V5	SL AAH 502 AD(140305-1)	SAR	Pre Check
KSLM245-01	Tissue simulation liquid (2450MHz,body)	Schmid&Partner Engineering AG	MSL2450V2	SL AAM 245 BA	SAR	Pre Check
KSLM580-02	Tissue simulation liquid (5800MHz,body)	Schmid&Partner Engineering AG	MBBL3500-5800V5	SL AAM 501 AB(110520-3)	SAR	Pre Check

The expiration date of calibration is the end of the expired month.

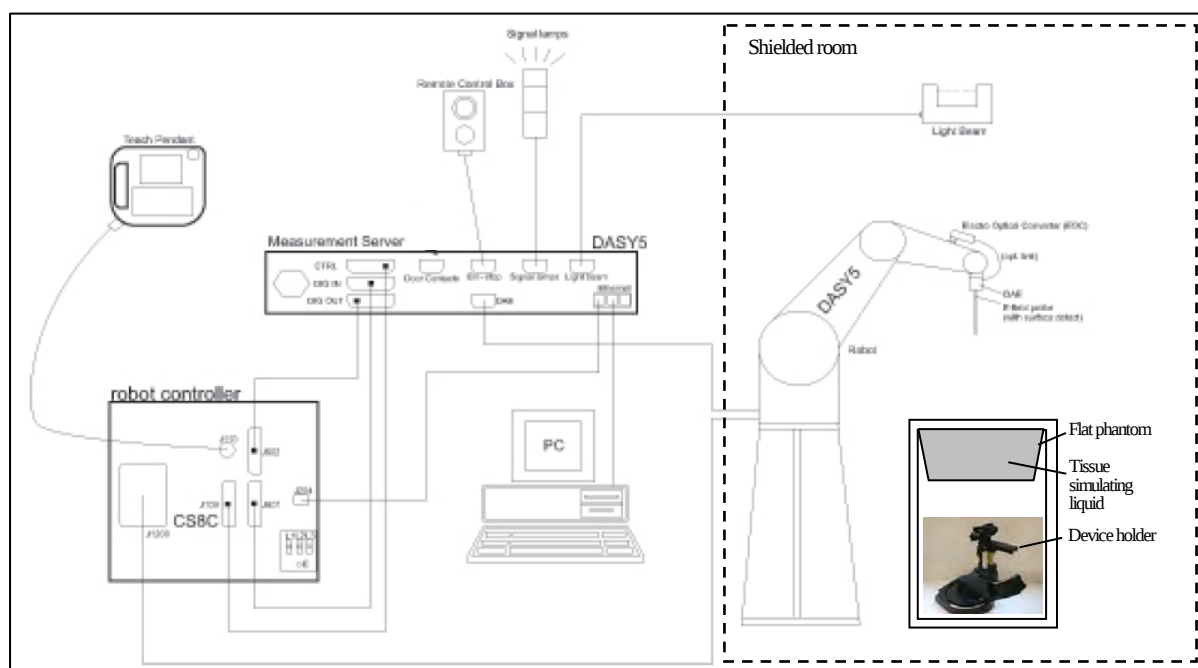
As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

[Test Item] SAR: Specific Absorption Rate, AT: Antenna terminal conducted power

Appendix 3-2: Configuration and peripherals

These measurements were performed with the automated near-field scanning system DASY5 from Schmid & Partner Engineering AG (SPEAG). The system is based on a high precision robot, which positions the probes with a positional repeatability of better than ± 0.02 mm. Special E- and H-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines to the data acquisition unit. The SAR measurements were conducted with the dosimetry probes EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.



The DASY5 system for performing compliance tests consist of the following items:

1	A standard high precision 6-axis robot (Stäubli TX/RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
2	An isotropic field probe optimized and calibrated for the targeted measurement.
3	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.
4	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.
5	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.
6	The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
7	A computer running Win7 professional operating system and the DASY5 software.
8	R Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
9	The phantom.
10	The device holder for platform. (low-loss dielectric palette) (*, when it was used.)
11	Tissue simulating liquid mixed according to the given recipes.
12	Validation dipole kits allowing to validate the proper functioning of the system.

Appendix 3-3: Test system specification

TX60 Lspeag robot/CS8Cspeag-TX60 robot controller

- Number of Axes : 6
- Repeatability : $\pm 0.02\text{mm}$
- Manufacture : Stäubli Unimation Corp.

DASY5 Measurement server

- Features : The DASY5 measurement server is based on a PC/104 CPU board with a 400MHz intel ULV Celeron, 128MB chip-disk and 128MB RAM. The necessary circuits for communication with the DAE4 electronics box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY5 I/O board, which is directly connected to the PC/104 bus of the CPU board.
- Calibration : No calibration required.
- Manufacture : Schmid & Partner Engineering AG

Data Acquisition Electronic (DAE)

- Features : Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY5 embedded system (fully remote controlled). 2 step probe touch detector for mechanical surface detection and emergency robot stop (not in -R version)
- Measurement Range : $1\mu\text{V}$ to $> 200\text{mV}$ (16bit resolution and 2 range settings: 4mV , 400mV)
- Input Offset voltage : $< 1\mu\text{V}$ (with auto zero)
- Input Resistance : $200\text{M}\Omega$
- Battery Power : $> 10\text{hr}$ of operation (with two 9V battery)
- Manufacture : Schmid & Partner Engineering AG

Electro-Optical Converter (EOC61)

- Manufacture : Schmid & Partner Engineering AG

Light Beam Switch (LB5/80)

- Manufacture : Schmid & Partner Engineering AG

SAR measurement software

- Item : Dosimetric Assessment System DASY5
- Software version : DASY52, V8.2 B969
- Manufacture : Schmid & Partner Engineering AG

E-Field Probe

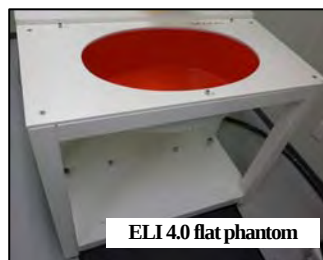
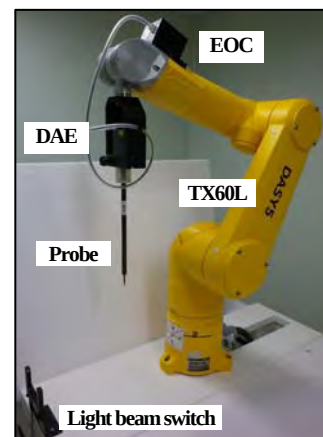
- Model : **EX3DV4 (serial number: 7372)**
- Construction : Symmetrical design with triangular core. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE).
- Frequency : 10MHz to 6GHz, Linearity: $\pm 0.2\text{ dB}$ (30MHz to 6GHz)
- Conversion Factors : (Used) 2.45, 5.2, 5.25, 5.5, 5.6, 5.75, 5.8 GHz (Head)
: (Used) 2.45, 5.25, 5.6, 5.75 GHz (Body)
- Directivity : $\pm 0.3\text{ dB}$ in HSL (rotation around probe axis)
 $\pm 0.5\text{ dB}$ in tissue material (rotation normal to probe axis)
- Dynamic Range : $10\mu\text{W/g}$ to $> 100\text{ mW/g}$; Linearity: $\pm 0.2\text{ dB}$ (noise: typically $< 1\mu\text{W/g}$)
- Dimension : Overall length: 330mm (Tip: 20mm)
Tip diameter: 2.5mm (Body: 12mm)
Typical distance from probe tip to dipole centers: 1mm
- Application : High precision dosimetric measurement in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6GHz with precision of better 30%.
- Manufacture : Schmid & Partner Engineering AG

Phantom

- Type : **ELI 4.0 oval flat phantom**
- Shell Material : Fiberglass
- Shell Thickness : Bottom plate: $2 \pm 0.2\text{mm}$
- Dimensions : Bottom elliptical: $600 \times 400\text{mm}$, Depth: 190mm (Volume: Approx. 30 liters)
- Manufacture : Schmid & Partner Engineering AG

Device Holder

- ☒ Urethane foam
- ☒ KSDH-01: In combination with the ELI4, the Mounting Device enables the rotation of the mounted transmitter device in spherical coordinates. Transmitter devices can be easily and accurately positioned. The low-loss dielectric urethane foam was used for the mounting section of device holder.
 - Material : POM
 - Manufacture : Schmid & Partner Engineering AG
- ☒ SSDH-02: Device holder for the laptop computer.



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Appendix 3-4: Simulated tissue composition and parameter confirmation

Liquid type	Body	Body	Head	Head
Control No.	KSLM245-01	KSLM580-02	KSLH245-01	KSLH580-04
Model No. / Product No.	MSL2450V2 / SL AAM 245 BA	MBBL3500-5800V5 / SL AAM 501 AB	HSL2450V2 /SL AAH 245 BA	HBBL 3500-5800V5 /SL AAH 502 AD
Ingredient: Mixture(%)	Water: 52-75%, DGBE: 25-48%, NaCl: <1.0%	Water: 60-80%, Ester/Emulsifiers/Inhibitors: 20-40%, Sodium salt: 0-1.5%	Water: 52-75%, DGBE: 25-48%, NaCl: <1.0%	Water: 50-65%, Mineral oil: 10-30%, Emulsifiers: 8-25%, Sodium salt: 0-1.5%
Manufacture	Schmid & Partner Engineering AG			

*. The dielectric parameters were checked prior to assessment using the DAK3.5 dielectric probe kit.

Measured date	Freq. [MHz]	Liquid type	Ambient [deg.C.] [%RH]	Liquid temp. [deg.C.]	Liquid Depth [mm]	Liquid parameters (*a)								ASAR	
						Permittivity (εr) [-]				Conductivity [S/m]				(1g) [%] (*b)	(10g) [%] (*b)
						Target	Measured		Limit	Target	Measured		Limit		
							Meas.	Δεr[%]			Meas.	Δσ[%]			
January 16, 2017	5250	Body	24.2/31	23.4	(151)	48.95	47.21	-3.6	±5%	5.358	5.477	+2.2	±5%	+0.64	+0.80
January 17, 2017	5750	Body	24.2/31	23.4	(151)	48.27	46.42	-3.8	±5%	5.942	6.186	+4.1	±5%	+0.58	+0.84
January 18~19, 2017 (*1)	5600	Body	24.2/31	23.4	(151)	48.47	46.61	-3.9	±5%	5.766	5.968	+3.5	±5%	+0.61	+0.84
January 20, 2017	2450	Head	24.2/32	23.8	(152)	39.2	38.16	-2.7	±5%	1.80	1.873	+4.1	±5%	+2.55	+1.48
January 23, 2017	2450	Body	23.7/31	22.4	(152)	52.7	50.85	-3.5	±5%	1.95	2.013	+3.2	±5%	+2.35	+1.40
January 24, 2017	5800	Head	23.5/31	22.8	(151)	35.3	34.84	-1.3	±5%	5.27	5.074	-3.7	±5%	+0.42	+0.45
January 30, 2017	5600	Head	23.5/38	22.4	(151)	35.53	35.25	-0.8	±5%	5.065	4.880	-3.7	±5%	+0.32	+0.36
January 31, 2017	5250	Head	23.5/38	22.4	(151)	35.93	35.73	-0.6	±5%	4.706	4.520	-4.0	±5%	+0.24	+0.35

*1. It was within 24 hours from measurement from Jan.18, 2017 and same liquid temperature, so measured parameters of Jan.18 were used on Jan.19 continuously.

*a. The target value is a parameter defined in Appendix A of KDB865664 D01 (v01r04), the dielectric parameters suggested for head and body tissue simulating liquid are given at 2000, 2450, 3000 and 5800MHz. (*The parameters of the head liquid are the same value as IEC 62209-2.) Parameters for the frequencies between 2000-3000, 3000-5800MHz were obtained using linear interpolation. Above 5800MHz were obtained using linear extrapolation.

Standard										Interpolated & Extrapolated									
f (MHz)	Head Tissue		Body Tissue		f (MHz)	Head Tissue		Body Tissue		f (MHz)	Head Tissue		Body Tissue		f (MHz)	Head Tissue		Body Tissue	
	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]		ϵ_r	σ [S/m]		
(1800)-2000	40.0	1.40	53.3	1.52	3000	38.5	2.40	52.0	2.73	5250	35.93	4.706	48.95	5.358	5750	not use	not use	48.27	5.942
2450	39.2	1.80	52.7	1.95	5800	35.3	5.27	48.2	6.00	5600	35.53	5.065	48.47	5.766					

*b. The coefficients are parameters defined in IEEE Std. 1528-2013.

$$\text{ASAR}(1g) = C_{\epsilon r} \times \Delta \epsilon r + C_{\sigma} \times \Delta \sigma, C_{\epsilon r} = 7.854E-4 \times f^3 + 9.402E-3 \times f^2 - 2.742E-2 \times f + 0.2026 / C_{\sigma} = 9.804E-3 \times f^3 - 8.661E-2 \times f^2 + 2.981E-2 \times f + 0.7829$$

$$\text{ASAR}(10g) = C_{\epsilon r} \times \Delta \epsilon r + C_{\sigma} \times \Delta \sigma, C_{\epsilon r} = 3.456 \times 10^{-3} \times f^3 - 3.531 \times 10^{-2} \times f^2 + 7.675 \times 10^{-2} \times f + 0.1860 / C_{\sigma} = 4.479 \times 10^{-3} \times f^3 - 1.586 \times 10^{-2} \times f^2 + 0.1972 \times f + 0.7717$$

Appendix 3-5: Daily check results

Prior to the SAR assessment of platform, the Daily check was performed to test whether the SAR system was operating within its target of ±10%. The Daily check results are in the table below. (*. Refer to Appendix 3-7 of measurement data.)

Daily check results																				
Date	Freq. [MHz]	Liquid Type	Daily check target & measured																	
			SAR (1g) [W/kg] (*d)									SAR (10g) [W/kg] (*d)								
			Meas. (°C)	ASAR- correct	1W scaled	Target Cal. (°C)	STD (°F)	Deviation Cal. [%]	STD [%]	Limit [%]	Pass ?	Meas. (°C)	ASAR- correct	1W scaled	Target Cal. (°C)	STD (°F)	Deviation Cal. [%]	STD [%]	Limit [%]	Pass ?
January 16, 2017	5250	Body	7.47	7.42	74.2	72.2	n/a	+2.8	n/a	±10	Pass	2.11	2.09	20.9	20.4	n/a	+2.5	n/a	±10	Pass
January 17, 2017	5750	Body	7.49	7.45	74.5	74.0	n/a	+0.7	n/a	±10	Pass	2.1	2.08	20.8	20.7	n/a	+0.5	n/a	±10	Pass
January 18, 2017	5600	Body	8.55	8.5	85	77.7	n/a	+9.4	n/a	±10	Pass	2.37	2.35	23.5	21.8	n/a	+7.8	n/a	±10	Pass
January 19, 2017	5600	Body	8.47	8.42	84.2	77.7	n/a	+8.4	n/a	±10	Pass	2.37	2.35	23.5	21.8	n/a	+7.8	n/a	±10	Pass
January 20, 2017	2450	Head	13.2	12.86	51.44	(51.9)	52.4	(-0.9)	-1.8	±10	Pass	6.09	6	24	(24.4)	24.0	(-1.6)	0	±10	Pass
January 23, 2017	2450	Body	12.9	12.60	50.4	50.8	n/a	-8	n/a	±10	Pass	6.01	5.93	23.72	24.1	n/a	-1.6	n/a	±10	Pass
January 24, 2017	5800	Head	8.1	8.07	80.7	75.2	(78.0)	+7.3	(+3.5)	±10	Pass	2.31	2.30	23.0	21.5	(21.9)	+7.0	(+5.0)	±10	Pass
January 30, 2017	5600	Head	8.6	8.57	85.7	78.6	n/a	+9.0	n/a	±10	Pass	2.45	2.44	24.4	22.5	n/a	+8.4	n/a	±10	Pass
January 31, 2017	5250	Head	8.07	8.05	80.5	75.3	n/a	+6.9	n/a	±10	Pass	2.31	2.30	23.0	21.7	n/a	+6.0	n/a	±10	Pass

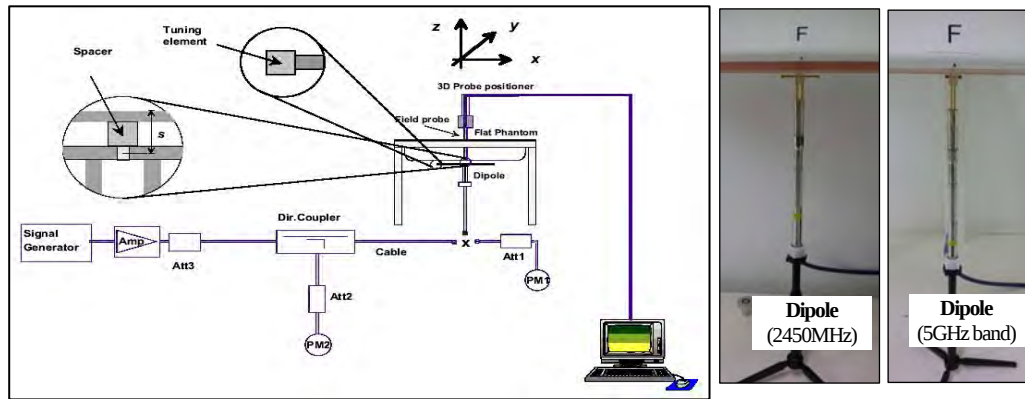
*. Calculating formula: $\text{ASAR corrected SAR (1g,10g) (W/kg)} = (\text{Observed SAR (1g,10g) (W/kg)}) \times (100 - (\text{ASAR}(\%))) / 100$

*c. The "Meas. (Measured)" SAR value is obtained at 250 mW for 2450MHz, and at 100 mW for 5GHz band.

*d. The measured SAR value of Daily check was compensated for tissue dielectric deviations (ASAR) and scaled to 1W of output power in order to compare with the manufacture's calibration target value which was normalized.

*e. The target value is a parameter defined in the calibration data sheet of D2450V2 (sn:829) and D5GHzV2 (sn:1070) dipole calibrated by Schmid & Partner Engineering AG (Certification No. D2450V2-829_Oct16 / D5GHzV2-1070_Mar16, the data sheet was filed in this report). For 2.45GHz, the manufacture's calibration data of dipole for head liquid were within 2.5 % (0.1 dB) of IEEE Std.1528 head liquid target value (=52.4 W/kg, cal.=51.9 W/kg, -1.0% vs. standard). This calibration result is enough, using this dipole as a reference. We decided to use body liquid calibration data of this dipole for the Daily check target.

*f. The target value (normalized to 1W) is defined in IEEE Std.1528.



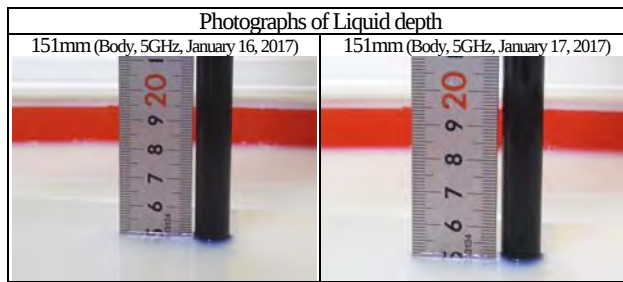
Test setup for the system performance check

Appendix 3-6: Daily check uncertainty

Uncertainty of Daily check (2.4-6GHz) (*:ε&σ tolerance: ≤±5%, DAK3.5, CW) (v08)							1g SAR	10g SAR	
Combined measurement uncertainty of the measurement system (k=1)							± 11.0 %	± 10.9 %	
Expanded uncertainty (k=2)							± 22.1 %	± 21.8 %	
	Error Description (v08)	Uncertainty Value	Probability distribution	Divisor	ci (1g)	ci (10g)	ui (1g)	ui (10g)	Vi, veff
A	Measurement System (DASY5)						(std. uncertainty)	(std. uncertainty)	
1	Probe Calibration Error (2.45,5.2,5.3,5.5,5.6,5.8GHz±100MHz)	±6.55 %	Normal	1	1	1	±6.55 %	±6.55 %	∞
2	Axial isotropy error	±4.7 %	Rectangular	√3	√0.5	√0.5	±1.9 %	±1.9 %	∞
3	Hemispherical isotropy error	±9.6 %	Rectangular	√3	0	0	0 %	0 %	∞
4	Probe linearity	±4.7 %	Rectangular	√3	1	1	±2.7 %	±2.7 %	∞
5	Probe modulation response (CW)	±0.0 %	Rectangular	√3	1	1	0 %	0 %	∞
6	System detection limit	±1.0 %	Rectangular	√3	1	1	±0.6 %	±0.6 %	∞
7	Boundary effects	±4.8 %	Rectangular	√3	1	1	±2.8 %	±2.8 %	∞
8	System readout electronics (DAE)	±0.3 %	Normal	1	1	1	±0.3 %	±0.3 %	∞
9	Response Time Error (<5ms/100ms wait)	±0.0 %	Rectangular	√3	1	1	0 %	0 %	∞
10	Integration Time Error (CW)	±0.0 %	Rectangular	√3	1	1	0 %	0 %	∞
11	RF ambient conditions-noise	±3.0 %	Rectangular	√3	1	1	±1.7 %	±1.7 %	∞
12	RF ambient conditions-reflections	±3.0 %	Rectangular	√3	1	1	±1.7 %	±1.7 %	∞
13	Probe positioner mechanical tolerance	±3.3 %	Rectangular	√3	1	1	±1.9 %	±1.9 %	∞
14	Probe positioning with respect to phantom shell	±6.7 %	Rectangular	√3	1	1	±3.9 %	±3.9 %	∞
15	Max. SAR evaluation (Post-processing)	±4.0 %	Rectangular	√3	1	1	±2.3 %	±2.3 %	∞
B	Test Sample Related								
16	Deviation of the experimental source	±3.5 %	Normal	1	1	1	±3.5 %	±3.5 %	∞
17	Dipole to liquid distance (10mm±0.2mm,<2deg.)	±2.0 %	Rectangular	√3	1	1	±1.2 %	±1.2 %	∞
18	Drift of output power (measured, <0.2dB)	±2.3 %	Rectangular	√3	1	1	±1.3 %	±1.3 %	∞
C	Phantom and Setup								
19	Phantom uncertainty	±2.0 %	Rectangular	√3	1	1	±1.2 %	±1.2 %	∞
20	Algorithm for correcting SAR (ε,σ: ≤5%)	±1.2 %	Normal	1	1	0.84	±1.2 %	±0.97 %	∞
21	Liquid conductivity (meas.) (DAK3.5)	±3.0 %	Normal	1	0.78	0.71	±2.3 %	±2.1 %	∞
22	Liquid permittivity (meas.) (DAK3.5)	±3.1 %	Normal	1	0.23	0.26	±0.7 %	±0.8 %	∞
23	Liquid Conductivity-temp.uncertainty (≤2deg.C.)	±5.3 %	Rectangular	√3	0.78	0.71	±2.4 %	±2.2 %	∞
24	Liquid Permittivity-temp.uncertainty (≤2deg.C.)	±0.9 %	Rectangular	√3	0.23	0.26	±0.1 %	±0.1 %	∞
Combined Standard Uncertainty							±11.0 %	±10.9 %	
Expanded Uncertainty (k=2)							±22.1 %	±21.8 %	

*. This measurement uncertainty budget is suggested by IEEE Std. 1528(2013) and determined by Schmid & Partner Engineering AG (DASY5 Uncertainty Budget).

Appendix 3-7: Daily check measurement data



(January 16, 2017) EUT: Dipole(5GHz)(1070); Type: D5GHzV2; Serial: 1070; Forward conducted power: 100mW
Communication System: UID 0, CW (*. Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5250 MHz; Crest Factor: 1.0
Medium: MSL5800(1701); Medium parameters used: $f = 5250$ MHz; $\sigma = 5.477$ S/m; $\epsilon_r = 47.21$; $\rho = 1000$ kg/m³
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.3, 4.3, 4.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0, 156.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

Area:60x60,stp10 (7x7x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 17.7 W/kg

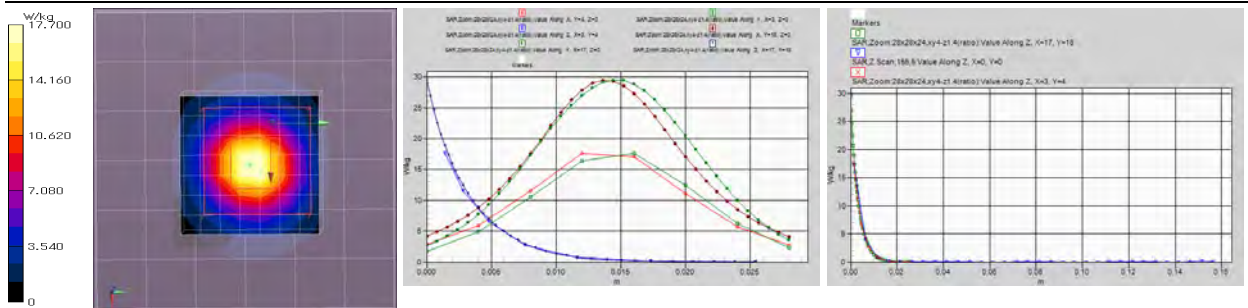
Area:60x60,stp10 (61x61x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 18.3 W/kg

Z Scan;155,5 (1x1x32): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm; Maximum value of SAR (measured) = 17.3 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 65.77 V/m; Power Drift = -0.07 dB; Maximum value of SAR (measured) = 17.7 W/kg; Peak SAR (extrapolated) = 29.5 W/kg

SAR(1 g) = 7.47 W/kg; SAR(10 g) = 2.11 W/kg



Remarks: *. Date tested: 2017/01/16; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 23.7 deg.C. / 31 %RH,
*. liquid temperature: 23.4(start)/23.2(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g)/small-SAR(1g)

(January 17, 2017) EUT: Dipole(5GHz)(1070); Type: D5GHzV2; Serial: 1070; Forward conducted power: 100mW
Communication System: UID 0, CW (*. Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5750 MHz; Crest Factor: 1.0
Medium: MSL5800(1701); Medium parameters used: $f = 5750$ MHz; $\sigma = 6.186$ S/m; $\epsilon_r = 46.42$; $\rho = 1000$ kg/m³
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.74, 3.74, 3.74); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0, 156.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

Area:60x60,stp10 (7x7x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 18.3 W/kg

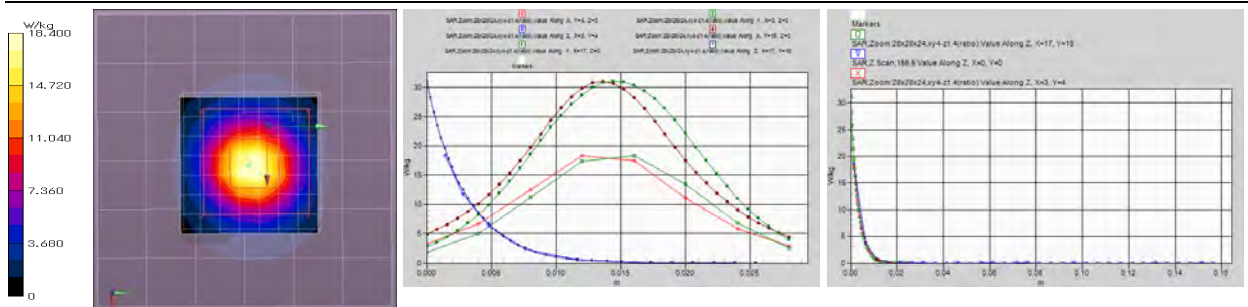
Area:60x60,stp10 (61x61x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 19.0 W/kg

Z Scan;155,5 (1x1x32): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm; Maximum value of SAR (measured) = 18.5 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

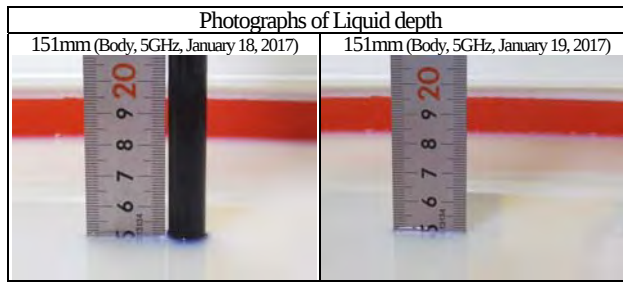
Reference Value = 64.44 V/m; Power Drift = -0.03 dB; Maximum value of SAR (measured) = 18.4 W/kg; Peak SAR (extrapolated) = 31.2 W/kg

SAR(1 g) = 7.49 W/kg; SAR(10 g) = 2.1 W/kg



Remarks: *. Date tested: 2017/01/17; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 24.2 deg.C. / 31 %RH,
*. liquid temperature: 23.3(start)/23.2(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g)/small-SAR(1g)

Appendix 3-7: daily check measurement data (cont'd)

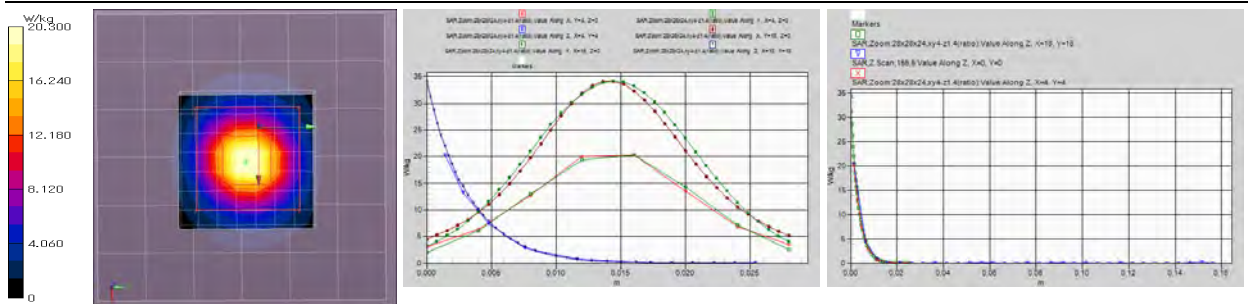


(January 18, 2017) EUT: Dipole(5GHz)(1070); Type: D5GHzV2; Serial: 1070; Forward conducted power: 100mW
Communication System: UID 0, CW (*. Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5600 MHz; Crest Factor: 1.0**
Medium: MSL5800(1701); Medium parameters used: f = 5600 MHz; σ = 5.968 S/m; ϵ_r = 46.61; ρ = 1000 kg/m³
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0, 156.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

Area:60x60,stp10 (7x7x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 21.6 W/kg
Area:60x60,stp10 (61x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 22.1 W/kg
Z Scan;155,5 (1x1x32): Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 20.4 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;
Reference Value = 71.07 V/m; Power Drift = -0.07 dB; Maximum value of SAR (measured) = 20.3 W/kg; Peak SAR (extrapolated) = 34.2 W/kg
SAR(1 g) = 8.55 W/kg; SAR(10 g) = 2.37 W/kg



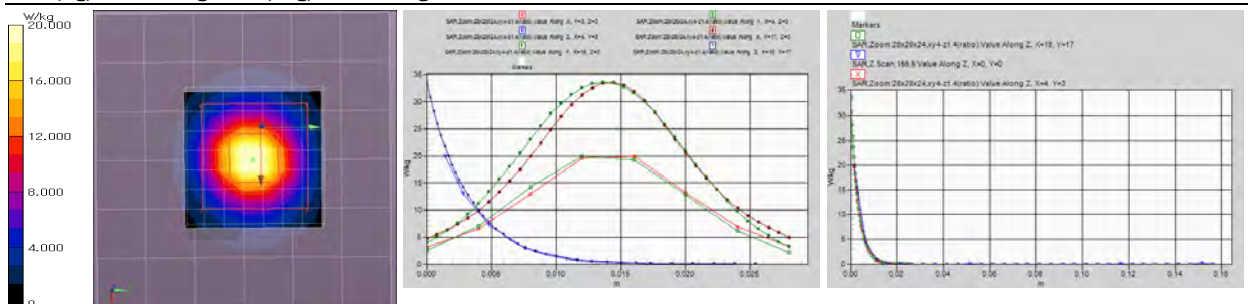
Remarks: *. Date tested: 2017/01/18; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 24.9 deg.C. / 31 %RH,
*. liquid temperature: 23.1(start)/23.0(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g)/small-SAR(1g)

(January 19, 2017) EUT: Dipole(5GHz)(1070); Type: D5GHzV2; Serial: 1070; Forward conducted power: 100mW
Communication System: UID 0, CW (*. Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5600 MHz; Crest Factor: 1.0**
Medium: MSL5800(1701); Medium parameters used: f = 5600 MHz; σ = 5.968 S/m; ϵ_r = 46.61; ρ = 1000 kg/m³
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(3.52, 3.52, 3.52); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0, 156.0 -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

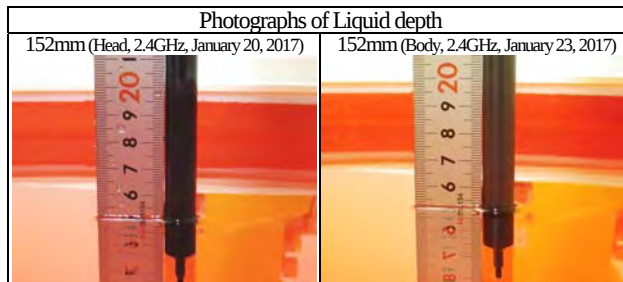
Area:60x60,stp10 (7x7x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 21.2 W/kg
Area:60x60,stp10 (61x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 21.9 W/kg
Z Scan;155,5 (1x1x32): Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 19.9 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;
Reference Value = 69.78 V/m; Power Drift = -0.05 dB; Maximum value of SAR (measured) = 20.0 W/kg; Peak SAR (extrapolated) = 33.6 W/kg
SAR(1 g) = 8.47 W/kg; SAR(10 g) = 2.37 W/kg



Remarks: *. Date tested: 2017/01/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 24.9 deg.C. / 36 %RH,
*. liquid temperature: 23.3(start)/23.3(end)/23.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g)/small-SAR(1g)

Appendix 3-7: daily check measurement data (cont'd)



(January 20, 2017) EUT: Dipole(2.45GHz)(sn894); Type: D2450V2; Serial: 894; Forward conducted power: 250mW
Communication System: CW(UID 0) (*. Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2450 MHz; Crest Factor: 1.0
Medium: HSL2450(1701); Medium parameters used: $f = 2450$ MHz; $\sigma = 1.873$ S/m; $\epsilon_r = 38.16$; $\rho = 1000$ kg/m³
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.15, 7.15, 7.15); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0, 161.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

Area Scan:60x60,stp15 (5x5x1): Measurement grid: $dx=15$ mm, $dy=15$ mm; Maximum value of SAR (measured) = 20.2 W/kg

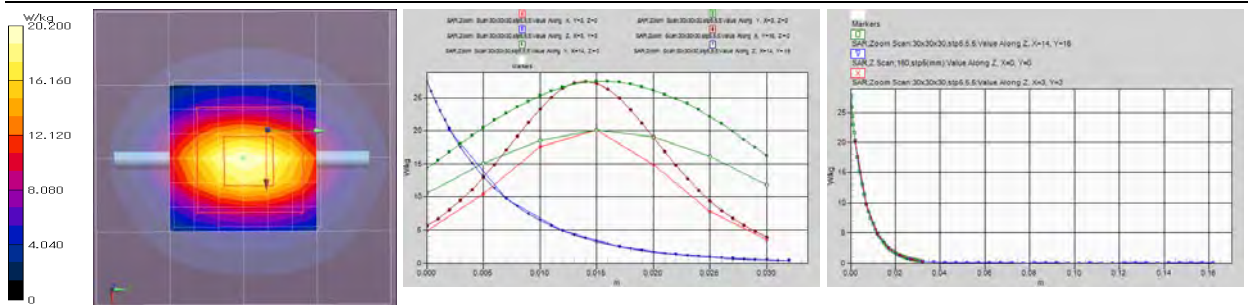
Area Scan:60x60,stp15 (41x41x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm; Maximum value of SAR (interpolated) = 20.2 W/kg

Z Scan:160,stp5(mm) (1x1x33): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm; Maximum value of SAR (measured) = 20.0 W/kg

Zoom Scan:30x30x30,stp5,5,5 (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 105.9 V/m; Power Drift = -0.08 dB; Maximum value of SAR (measured) = 20.2 W/kg; Peak SAR (extrapolated) = 27.6 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.09 W/kg



Remarks: *. Date tested: 2017/01/20; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 152 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 24.7 deg.C. / 34 %RH,
*. liquid temperature: 23.8(start)/23.7(end)/23.8(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g)/small-SAR(1g)

(January 23, 2017) EUT: Dipole(2.45GHz)(sn894); Type: D2450V2; Serial: 894; Forward conducted power: 250mW
Communication System: UID 0, CW (*. Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2450 MHz; Crest Factor: 1.0
Medium: M2450(1701); Medium parameters used: $f = 2450$ MHz; $\sigma = 2.013$ S/m; $\epsilon_r = 50.847$; $\rho = 1000$ kg/m³
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(7.3, 7.3, 7.3); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0, 161.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

Area Scan:60x60,stp15 (5x5x1): Measurement grid: $dx=15$ mm, $dy=15$ mm; Maximum value of SAR (measured) = 19.3 W/kg

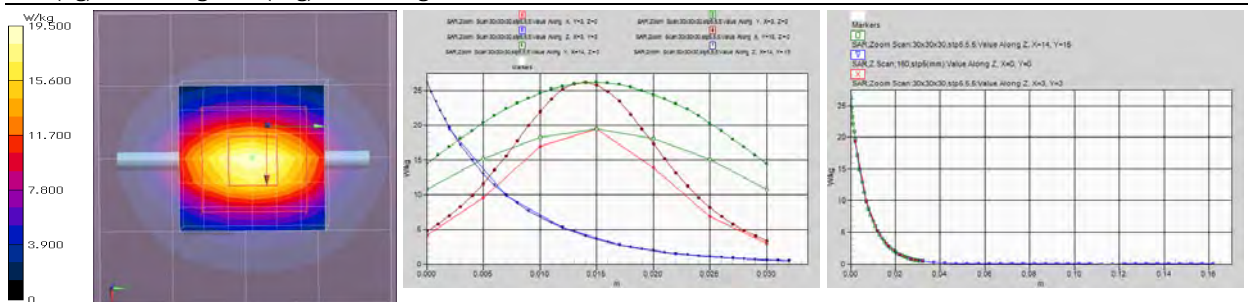
Area Scan:60x60,stp15 (41x41x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm; Maximum value of SAR (interpolated) = 19.4 W/kg

Z Scan:160,stp5(mm) (1x1x33): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm; Maximum value of SAR (measured) = 19.5 W/kg

Zoom Scan:30x30x30,stp5,5,5 (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 99.40 V/m; Power Drift = -0.06 dB; Maximum value of SAR (measured) = 19.5 W/kg; Peak SAR (extrapolated) = 26.2 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.01 W/kg



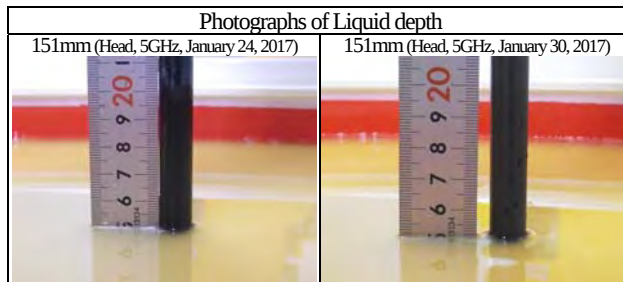
Remarks: *. Date tested: 2017/01/23; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 152 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 23.6 deg.C. / 31 %RH,
*. liquid temperature: 22.4(start)/22.4(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g)/small-SAR(1g)

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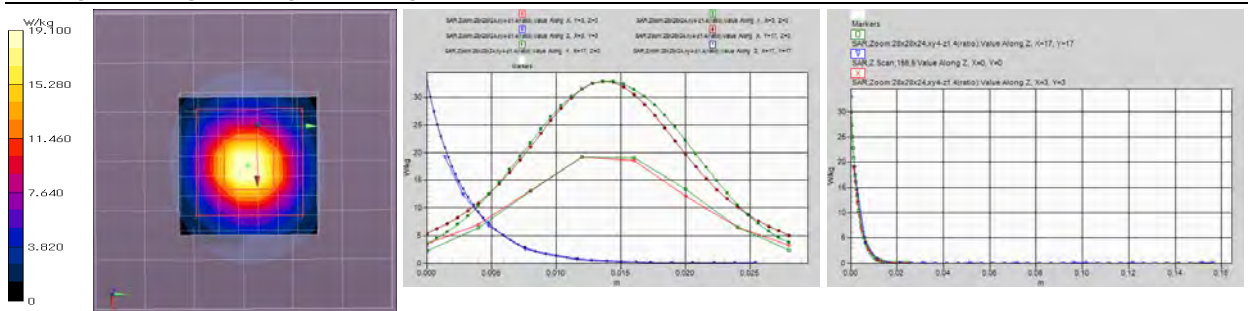
Appendix 3-7: daily check measurement data (cont'd)



(January 24, 2017) EUT: Dipole(5GHz)(1070); Type: D5GHzV2; Serial: 1070; Forward conducted power: 100mW
Communication System: UID 0, CW (*. Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5800 MHz; Crest Factor: 1.0
Medium: HSL5GHz(1701); Medium parameters used: $f = 5800$ MHz; $\sigma = 5.074$ S/m; $\epsilon_r = 34.84$; $\rho = 1000$ kg/m³
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.1, 4.1, 4.1); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0, 156.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

Area:60x60,stp10 (7x7x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 20.2 W/kg
Area:60x60,stp10 (61x61x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 20.7 W/kg
Z Scan;155,5 (1x1x32): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm; Maximum value of SAR (measured) = 19.0 W/kg
Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;
Reference Value = 72.05 V/m; Power Drift = -0.06 dB; Maximum value of SAR (measured) = 19.1 W/kg; Peak SAR (extrapolated) = 33.0 W/kg
SAR(1 g) = 8.1 W/kg; SAR(10 g) = 2.31 W/kg

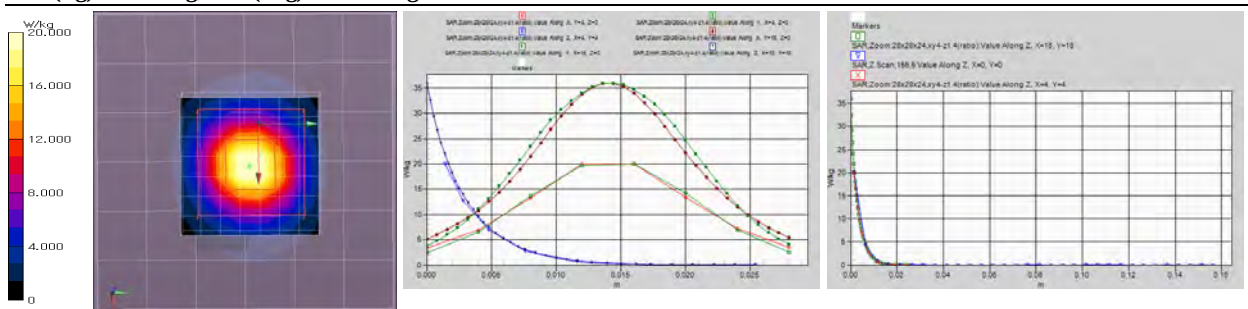


Remarks: *. Date tested: 2017/01/24; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 23.6 deg.C. / 31 %RH,
*. liquid temperature: 22.7(start)/22.6(end)/22.8(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g)/small-SAR(1g)

(January 30, 2017) EUT: Dipole(5GHz)(1070); Type: D5GHzV2; Serial: 1070; Forward conducted power: 100mW
Communication System: UID 0, CW (*. Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5600 MHz; Crest Factor: 1.0
Medium: HSL5GHz(1701); Medium parameters used: $f = 5600$ MHz; $\sigma = 4.88$ S/m; $\epsilon_r = 35.25$; $\rho = 1000$ kg/m³
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

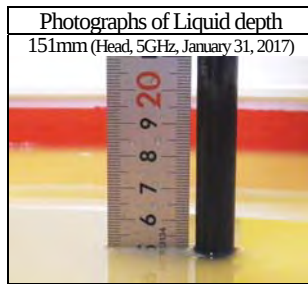
DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.17, 4.17, 4.17); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0, 156.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

Area:60x60,stp10 (7x7x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 21.3 W/kg
Area:60x60,stp10 (61x61x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 21.8 W/kg
Z Scan;155,5 (1x1x32): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm; Maximum value of SAR (measured) = 20.1 W/kg
Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;
Reference Value = 74.30 V/m; Power Drift = -0.07 dB; Maximum value of SAR (measured) = 20.0 W/kg; Peak SAR (extrapolated) = 36.0 W/kg
SAR(1 g) = 8.6 W/kg; SAR(10 g) = 2.45 W/kg



Remarks: *. Date tested: 2017/01/30; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 23.7 deg.C. / 47 %RH,
*. liquid temperature: 22.4(start)/22.3(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g)/small-SAR(1g)

Appendix 3-7: daily check measurement data (cont'd)



(January 31, 2017) EUT: Dipole(5GHz)(1070); Type: D5GHzV2; Serial: 1070; Forward conducted power: 100mW
Communication System: UID 0, CW (*. Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5250 MHz; Crest Factor: 1.0
Medium: HSL5GHz(1701); Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.52 \text{ S/m}$; $\epsilon_r = 35.73$; $\rho = 1000 \text{ kg/m}^3$
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Probe: EX3DV4 - SN7372; ConvF(4.67, 4.67, 4.67); Calibrated: 2016/03/15; -DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0, 156.0$ -Electronics: DAE4 Sn626; Calibrated: 2016/10/13
-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

Area:60x60,stp10 (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$; Maximum value of SAR (measured) = 18.7 W/kg

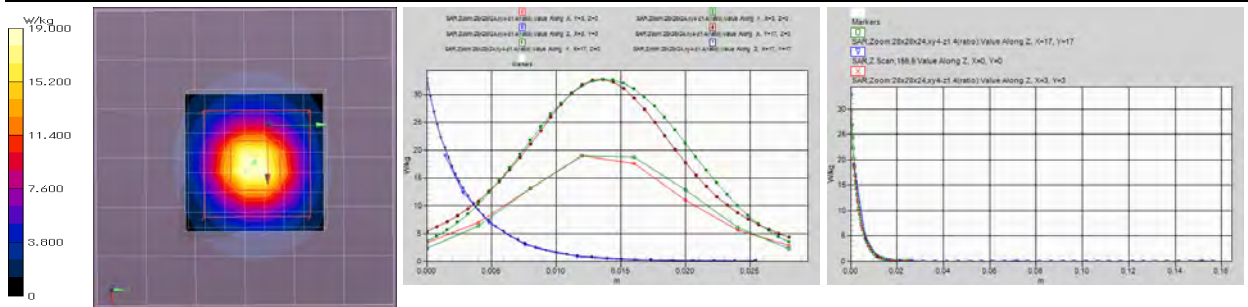
Area:60x60,stp10 (61x61x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$; Maximum value of SAR (interpolated) = 19.8 W/kg

Z Scan;155,5 (1x1x32): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$; Maximum value of SAR (measured) = 19.0 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$;

Reference Value = 69.85 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 19.0 W/kg; Peak SAR (extrapolated) = 32.8 W/kg

SAR(1 g) = 8.07 W/kg; SAR(10 g) = 2.31 W/kg



Remarks: *. Date tested: 2017/01/31; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
*. liquid depth: 151 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 23.7 deg.C. / 34 %RH,
*. liquid temperature: 22.2(start)/22.2(end)/22.4(in check) deg.C.; *. White cubic: zoom scan area, Red cubic: big-SAR(10g)/small-SAR(1g)

Appendix 3-8: Calibration certificate: E-Field Probe (EX3DV4)

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



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Accreditation No.: **SCS 0108**

Client **Vitec**

Certificate No: **EX3-7372_Mar16**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:7372**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v4, QA CAL-23.v5,
QA CAL-25.v6
Calibration procedure for dosimetric E-field probes**

Calibration date: **March 15, 2016**

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 E4419B	GB41293874	01-Apr-15 (No. 217-02128)	Mar-16
Power sensor E4412A	MY41498087	01-Apr-15 (No. 217-02128)	Mar-16
Reference 3 dB Attenuator	SN: S5054 (3c)	01-Apr-15 (No. 217-02129)	Mar-16
Reference 20 dB Attenuator	SN: S5277 (20x)	01-Apr-15 (No. 217-02132)	Mar-16
Reference 30 dB Attenuator	SN: S5129 (30b)	01-Apr-15 (No. 217-02133)	Mar-16
Reference Probe ES3DV2	SN: 3013	31-Dec-15 (No. ES3-3013_Dec15)	Dec-16
DAE4	SN: 660	23-Dec-15 (No. DAE4-660_Dec15)	Dec-16
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-13)	In house check: Apr-16
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-15)	In house check: Oct-16

Calibrated by: **Leif Klysner** Function: **Laboratory Technician** Signature: *[Signature]*

Approved by: **Katja Pokovic** Function: **Technical Manager** Signature: *[Signature]*

Issued: March 17, 2016

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

Appendix 3-8: Calibration certificate: E-Field Probe (EX3DV4) (cont'd)

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



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Swiss Calibration Service

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

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,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.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:

- 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
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- 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
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\theta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z}** = NORM_{x,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.
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (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
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,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 $f \leq 800$ 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 NORM_{x,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 NORM_x (no uncertainty required).

Appendix 3-8: Calibration certificate: E-Field Probe (EX3DV4) (cont'd)

EX3DV4 – SN:7372

March 15, 2016

Probe EX3DV4

SN:7372

Manufactured: March 17, 2015
Calibrated: March 15, 2016

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

Appendix 3-8: Calibration certificate: E-Field Probe (EX3DV4) (cont'd)

EX3DV4- SN:7372

March 15, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7372

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.50	0.30	0.52	$\pm 10.1 \%$
DCP (mV) ^B	96.6	101.1	95.1	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	141.8	$\pm 3.0 \%$
		Y	0.0	0.0	1.0		142.9	
		Z	0.0	0.0	1.0		134.1	

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 and 6).

^B Numerical linearization parameter: uncertainty not required.

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

Appendix 3-8: Calibration certificate: E-Field Probe (EX3DV4) (cont'd)

EX3DV4- SN:7372

March 15, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7372

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)	Unc (k=2)
650	42.5	0.89	10.24	10.24	10.24	0.09	1.25	± 13.3 %
750	41.9	0.89	10.10	10.10	10.10	0.49	0.81	± 12.0 %
835	41.5	0.90	9.58	9.58	9.58	0.42	0.84	± 12.0 %
900	41.5	0.97	9.36	9.36	9.36	0.25	1.22	± 12.0 %
1450	40.5	1.20	8.51	8.51	8.51	0.40	0.80	± 12.0 %
1750	40.1	1.37	8.20	8.20	8.20	0.32	0.90	± 12.0 %
1900	40.0	1.40	7.91	7.91	7.91	0.31	0.80	± 12.0 %
1950	40.0	1.40	7.71	7.71	7.71	0.38	0.80	± 12.0 %
2450	39.2	1.80	7.15	7.15	7.15	0.43	0.81	± 12.0 %
2600	39.0	1.96	6.84	6.84	6.84	0.42	0.85	± 12.0 %
5200	36.0	4.66	4.80	4.80	4.80	0.35	1.80	± 13.1 %
5250	35.9	4.71	4.67	4.67	4.67	0.35	1.80	± 13.1 %
5300	35.9	4.76	4.54	4.54	4.54	0.40	1.80	± 13.1 %
5500	35.6	4.96	4.32	4.32	4.32	0.45	1.80	± 13.1 %
5600	35.5	5.07	4.17	4.17	4.17	0.45	1.80	± 13.1 %
5750	35.4	5.22	4.21	4.21	4.21	0.50	1.80	± 13.1 %
5800	35.3	5.27	4.10	4.10	4.10	0.50	1.80	± 13.1 %

^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 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 frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. 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 frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Appendix 3-8: Calibration certificate: E-Field Probe (EX3DV4) (cont'd)

EX3DV4- SN:7372

March 15, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7372

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
650	55.9	0.96	10.56	10.56	10.56	0.10	1.25	± 13.3 %
750	55.5	0.96	10.40	10.40	10.40	0.33	1.36	± 12.0 %
835	55.2	0.97	10.15	10.15	10.15	0.35	1.13	± 12.0 %
900	55.0	1.05	9.90	9.90	9.90	0.25	1.40	± 12.0 %
1450	54.0	1.30	8.30	8.30	8.30	0.37	0.80	± 12.0 %
1750	53.4	1.49	7.97	7.97	7.97	0.47	0.80	± 12.0 %
1900	53.3	1.52	7.61	7.61	7.61	0.38	0.80	± 12.0 %
1950	53.3	1.52	7.84	7.84	7.84	0.35	0.89	± 12.0 %
2450	52.7	1.95	7.30	7.30	7.30	0.35	0.88	± 12.0 %
2600	52.5	2.16	6.83	6.83	6.83	0.37	0.86	± 12.0 %
5200	49.0	5.30	4.45	4.45	4.45	0.50	1.90	± 13.1 %
5250	48.9	5.36	4.30	4.30	4.30	0.50	1.90	± 13.1 %
5300	48.9	5.42	4.25	4.25	4.25	0.50	1.90	± 13.1 %
5500	48.6	5.65	3.79	3.79	3.79	0.55	1.90	± 13.1 %
5600	48.5	5.77	3.52	3.52	3.52	0.60	1.90	± 13.1 %
5750	48.3	5.94	3.74	3.74	3.74	0.60	1.90	± 13.1 %
5800	48.2	6.00	3.73	3.73	3.73	0.60	1.90	± 13.1 %

^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 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 frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

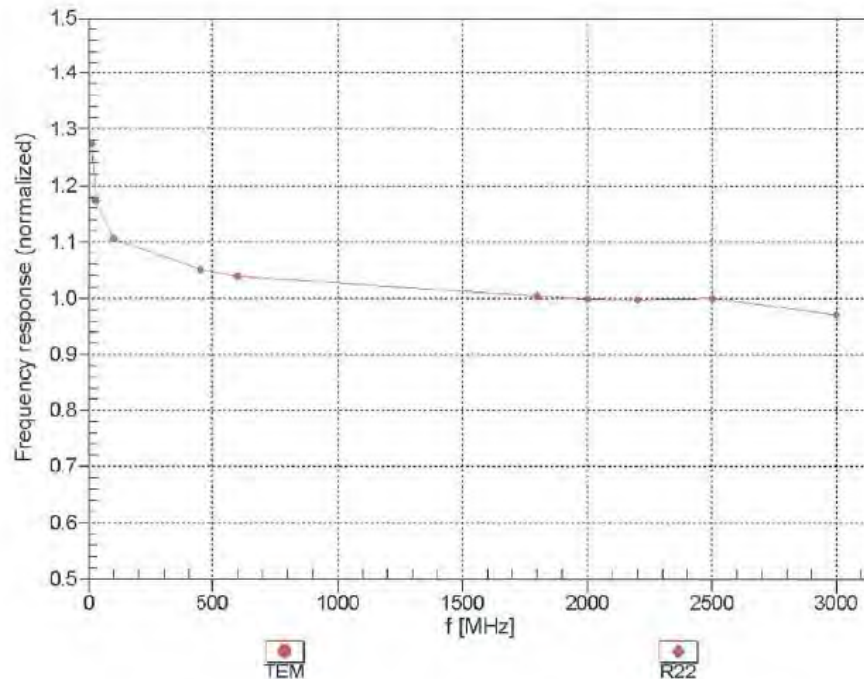
^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from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

Appendix 3-8: Calibration certificate: E-Field Probe (EX3DV4) (cont'd)

EX3DV4- SN:7372

March 15, 2016

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



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

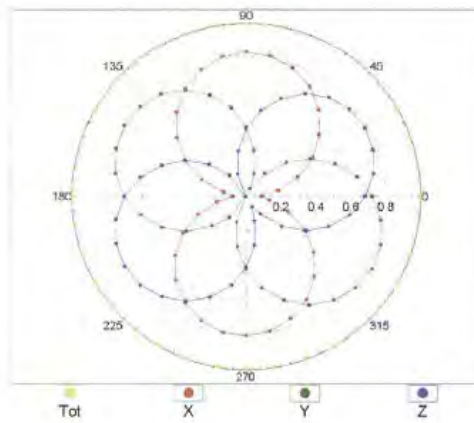
Appendix 3-8: Calibration certificate: E-Field Probe (EX3DV4) (cont'd)

EX3DV4- SN:7372

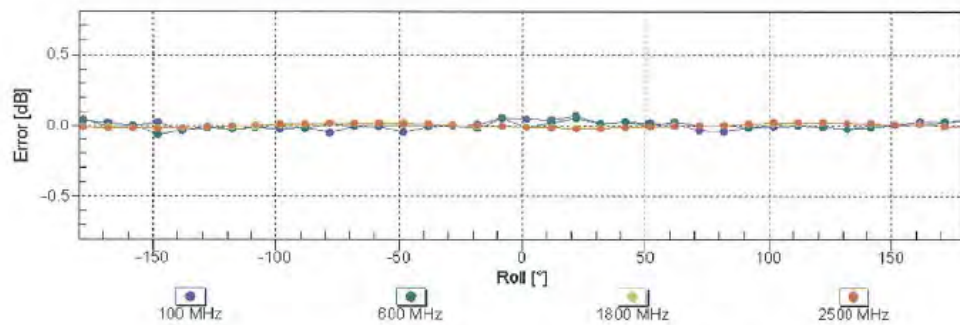
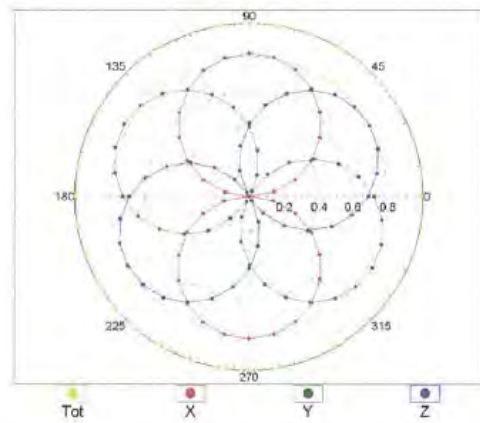
March 15, 2016

Receiving Pattern (ϕ), $\theta = 0^\circ$

f=600 MHz,TEM



f=1800 MHz,R22



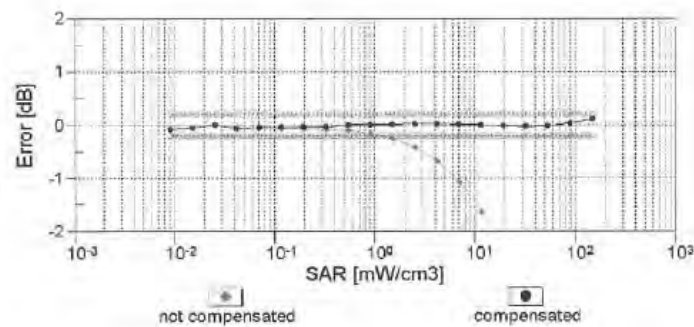
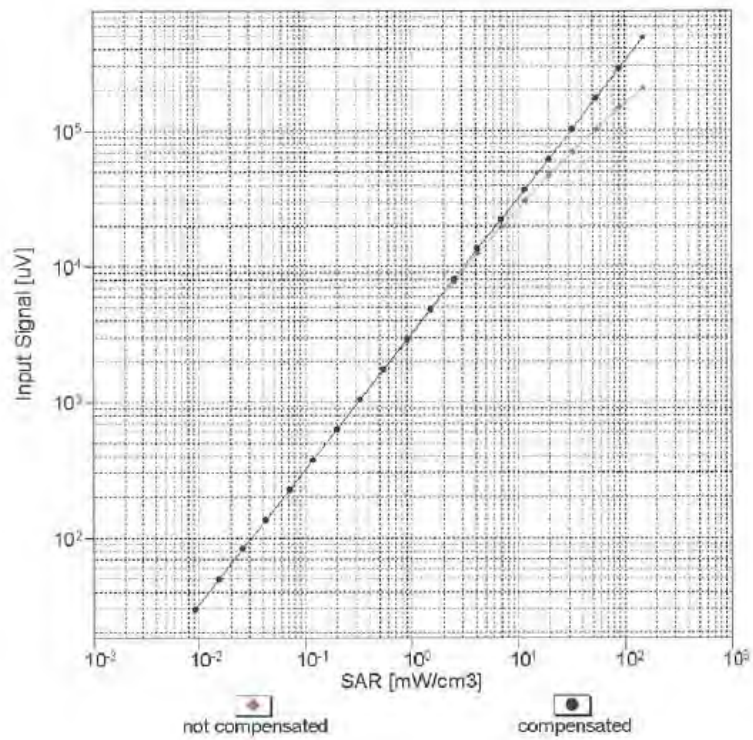
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

Appendix 3-8: Calibration certificate: E-Field Probe (EX3DV4) (cont'd)

EX3DV4- SN:7372

March 15, 2016

Dynamic Range $f(\text{SAR}_{\text{head}})$
(TEM cell, $f_{\text{eval}} = 1900 \text{ MHz}$)



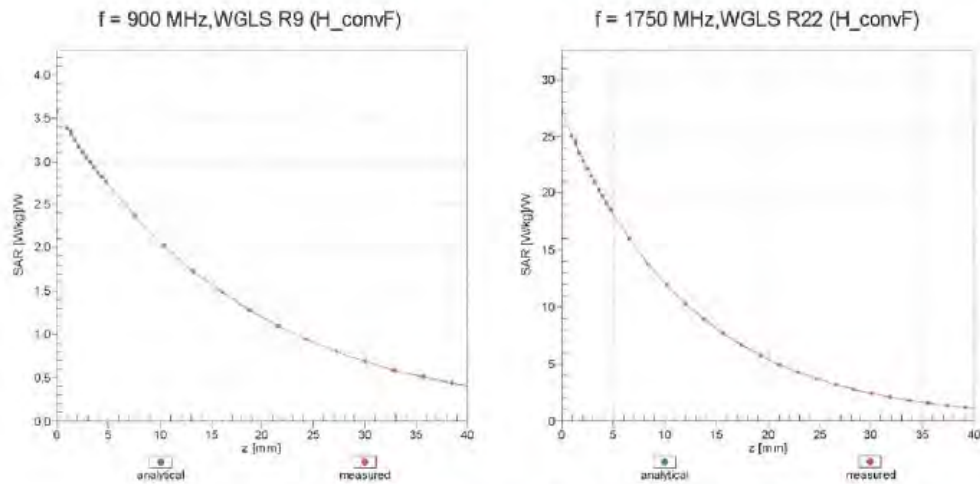
Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Appendix 3-8: Calibration certificate: E-Field Probe (EX3DV4) (cont'd)

EX3DV4- SN:7372

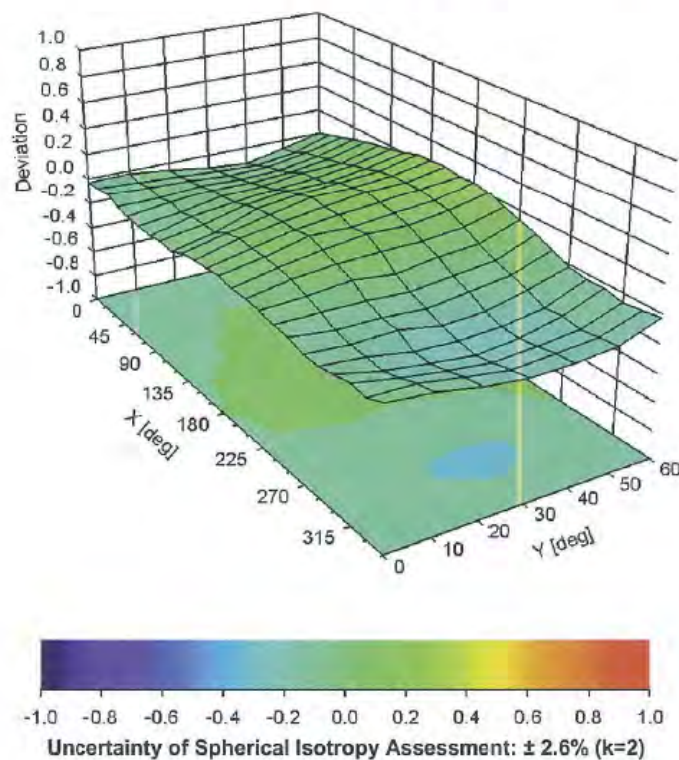
March 15, 2016

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), $f = 900 \text{ MHz}$



Appendix 3-8: Calibration certificate: E-Field Probe (EX3DV4) (cont'd)

EX3DV4- SN:7372

March 15, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7372

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	51.8
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

Appendix 3-9: Calibration certificate: Dipole (D2450V2)

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **VGEL**

Certificate No: **D2450V2-894_Oct16**

CALIBRATION CERTIFICATE

Object **D2450V2 - SN:894**

Calibration procedure(s) **QA-CAL-05.v9
Calibration procedure for dipole validation kits above 700 MHz**

Calibration date: **October 18, 2016**

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 NRP	SN: 104778	06-Apr-16 (No. 217-02288/02289)	Apr-17
Power sensor NRP-Z91	SN: 103244	06-Apr-16 (No. 217-02288)	Apr-17
Power sensor NRP-Z91	SN: 103245	06-Apr-16 (No. 217-02289)	Apr-17
Reference 20 dB Attenuator	SN: 5058 (20k)	05-Apr-16 (No. 217-02292)	Apr-17
Type-N mismatch combination	SN: 5047.2 / 06327	05-Apr-16 (No. 217-02295)	Apr-17
Reference Probe EX3DV4	SN: 7349	15-Jun-16 (No. EX3-7349_Jun16)	Jun-17
DAE4	SN: 601	30-Dec-15 (No. DAE4-601_Dec15)	Dec-16
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: GB37480704	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-16)	In house check: Oct-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-16)	In house check: Oct-17

	Name	Function	Signature
Calibrated by:	Johannes Kurikka	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: October 18, 2016

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

Appendix 3-9: Calibration certificate: Dipole (D2450V2) (cont'd)

Calibration Laboratory of
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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- 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
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- 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
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

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%.

Appendix 3-9: Calibration certificate: Dipole (D2450V2) (cont'd)

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	38.2 $\pm$ 6 %	1.87 mho/m $\pm$ 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.3 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	51.9 W/kg $\pm$ 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.18 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.4 W/kg $\pm$ 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 $\pm$ 0.2) °C	51.3 $\pm$ 6 %	2.02 mho/m $\pm$ 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.0 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	50.8 W/kg $\pm$ 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.10 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	24.1 W/kg $\pm$ 16.5 % (k=2)

Appendix 3-9: Calibration certificate: Dipole (D2450V2) (cont'd)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	54.2 Ω + 2.7 j Ω
Return Loss	- 26.4 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	50.7 Ω + 5.2 j Ω
Return Loss	- 25.7 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.160 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	October 06, 2011

Appendix 3-9: Calibration certificate: Dipole (D2450V2) (cont'd)

DASY5 Validation Report for Head TSL

Date: 14.10.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:894

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ S/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(7.72, 7.72, 7.72); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

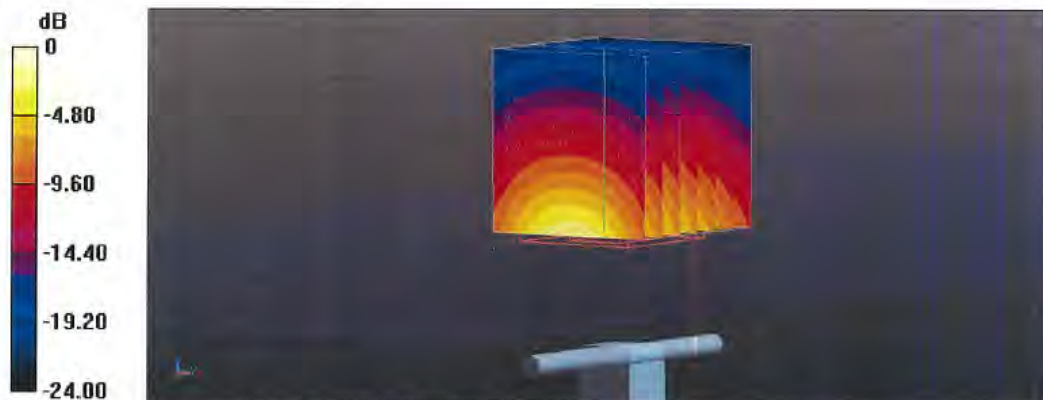
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 112.5 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 26.8 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.18 W/kg

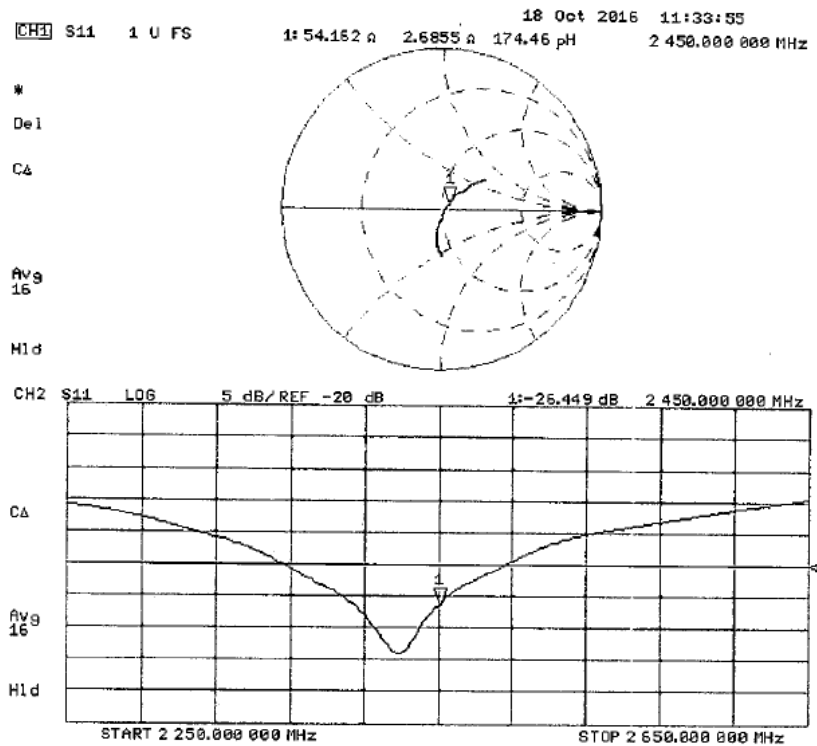
Maximum value of SAR (measured) = 22.0 W/kg



0 dB = 22.0 W/kg = 13.42 dBW/kg

Appendix 3-9: Calibration certificate: Dipole (D2450V2) (cont'd)

Impedance Measurement Plot for Head TSL



Appendix 3-9: Calibration certificate: Dipole (D2450V2) (cont'd)

DASY5 Validation Report for Body TSL

Date: 18.10.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:894

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.02$ S/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(7.79, 7.79, 7.79); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 107.0 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 26.0 W/kg

SAR(1 g) = 13 W/kg; SAR(10 g) = 6.1 W/kg

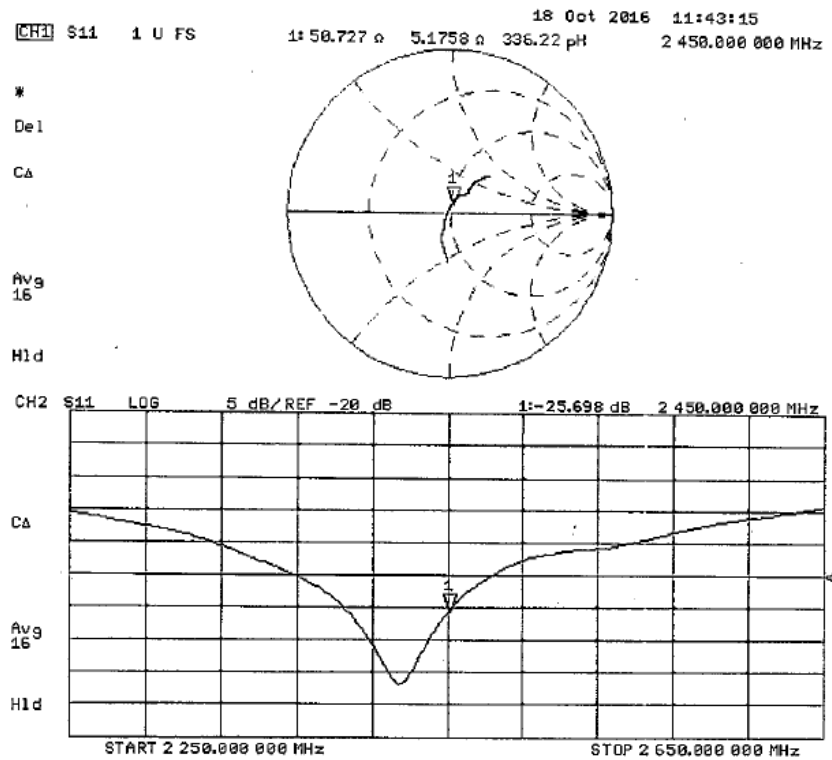
Maximum value of SAR (measured) = 21.3 W/kg



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

Appendix 3-9: Calibration certificate: Dipole (D2450V2) (cont'd)

Impedance Measurement Plot for Body TSL



Appendix 3-10: Calibration certificate: Dipole (D5GHzV2)

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



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

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

Accreditation No.: **SCS 0108**

Client **UL Japan Shonan (Vitec)**

Certificate No: **D5GHzV2-1070_Mar16**

CALIBRATION CERTIFICATE

Object **D5GHzV2 - SN:1070**

Calibration procedure(s) **QA CAL-22.v2**
Calibration procedure for dipole validation kits between 3-6 GHz

Calibration date: **March 10, 2016**

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 EPM-442A	GB37480704	07-Oct-15 (No. 217-02222)	Oct-16
Power sensor HP 8481A	US37292783	07-Oct-15 (No. 217-02222)	Oct-16
Power sensor HP 8481A	MY41092317	07-Oct-15 (No. 217-02223)	Oct-16
Reference 20 dB Attenuator	SN: 5058 (20k)	01-Apr-15 (No. 217-02131)	Mar-16
Type-N mismatch combination	SN: 5047.2 / 06327	01-Apr-15 (No. 217-02134)	Mar-16
Reference Probe EX3DV4	SN: 3503	31-Dec-15 (No. EX3-3503_Dec15)	Dec-16
DAE4	SN: 601	30-Dec-15 (No. DAE4-601_Dec15)	Dec-16
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator R&S SMT-06	100972	15-Jun-15 (in house check Jun-15)	In house check: Jun-18
Network Analyzer HP 8753E	US37390565 S4206	18-Oct-01 (in house check Oct-15)	In house check: Oct-16

Calibrated by:	Name Jeton Kastrati	Function Laboratory Technician	Signature
Approved by:	Name Katja Pokovic	Function Technical Manager	Signature

Issued: March 11, 2016

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

Appendix 3-10: Calibration certificate: Dipole (D5GHzV2) (cont'd)

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



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

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

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

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%.

Appendix 3-10: Calibration certificate: Dipole (D5GHzV2) (cont'd)

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5200 MHz $\pm$ 1 MHz 5250 MHz $\pm$ 1 MHz 5500 MHz $\pm$ 1 MHz 5600 MHz $\pm$ 1 MHz 5750 MHz $\pm$ 1 MHz 5800 MHz $\pm$ 1 MHz	

Head TSL parameters at 5200 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	36.0	4.66 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	34.8 $\pm$ 6 %	4.49 mho/m $\pm$ 6 %
Head TSL temperature change during test	< 0.5 °C	-----	-----

SAR result with Head TSL at 5200 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.44 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	73.8 W/kg $\pm$ 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.15 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.3 W/kg $\pm$ 19.5 % (k=2)

Appendix 3-10: Calibration certificate: Dipole (D5GHzV2) (cont'd)

Head TSL parameters at 5250 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.71 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.7 ± 6 %	4.53 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5250 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.59 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	75.3 W / kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.19 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.7 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5500 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.6	4.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.4 ± 6 %	4.77 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5500 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.71 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	76.4 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.21 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.9 W/kg ± 19.5 % (k=2)

Appendix 3-10: Calibration certificate: Dipole (D5GHzV2) (cont'd)

Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.2 ± 6 %	4.87 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.93 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	78.6 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.28 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.5 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5750 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.4	5.22 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.0 ± 6 %	5.03 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5750 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.61 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	75.3 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.18 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.5 W/kg ± 19.5 % (k=2)

Appendix 3-10: Calibration certificate: Dipole (D5GHzV2) (cont'd)

Head TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.0 ± 6 %	5.08 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.59 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	75.2 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.17 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.5 W/kg ± 19.5 % (k=2)

Appendix 3-10: Calibration certificate: Dipole (D5GHzV2) (cont'd)

Body TSL parameters at 5250 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.9	5.36 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.3 ± 6 %	5.43 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL at 5250 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.27 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	72.2 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.06 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.4 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.5	5.77 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.7 ± 6 %	5.90 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.82 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	77.7 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.20 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.8 W/kg ± 19.5 % (k=2)

Appendix 3-10: Calibration certificate: Dipole (D5GHzV2) (cont'd)

Body TSL parameters at 5750 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.3	5.94 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.4 ± 6 %	6.12 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL at 5750 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.45 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	74.0 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.09 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.7 W/kg ± 19.5 % (k=2)

Appendix 3-10: Calibration certificate: Dipole (D5GHzV2) (cont'd)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5200 MHz

Impedance, transformed to feed point	51.1 Ω - 13.1 j Ω
Return Loss	- 17.8 dB

Antenna Parameters with Head TSL at 5250 MHz

Impedance, transformed to feed point	52.0 Ω - 8.8 j Ω
Return Loss	- 21.1 dB

Antenna Parameters with Head TSL at 5500 MHz

Impedance, transformed to feed point	48.0 Ω - 8.7 j Ω
Return Loss	- 20.8 dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	55.5 Ω - 8.5 j Ω
Return Loss	- 20.4 dB

Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	55.3 Ω - 2.7 j Ω
Return Loss	- 25.0 dB

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	53.4 Ω - 3.2 j Ω
Return Loss	- 26.9 dB

Antenna Parameters with Body TSL at 5250 MHz

Impedance, transformed to feed point	52.5 Ω - 6.6 j Ω
Return Loss	- 23.3 dB

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	56.8 Ω - 7.0 j Ω
Return Loss	- 20.8 dB

Antenna Parameters with Body TSL at 5750 MHz

Impedance, transformed to feed point	57.6 Ω - 1.0 j Ω
Return Loss	- 23.0 dB

Appendix 3-10: Calibration certificate: Dipole (D5GHzV2) (cont'd)

General Antenna Parameters and Design

Electrical Delay (one direction)	1.202 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	September 26, 2008

Appendix 3-10: Calibration certificate: Dipole (D5GHzV2) (cont'd)

DASY5 Validation Report for Head TSL

Date: 07.03.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1070

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5250 MHz, Frequency: 5500 MHz, Frequency: 5600 MHz, Frequency: 5750 MHz, Frequency: 5800 MHz
Medium parameters used: $f = 5200$ MHz; $\sigma = 4.49$ S/m; $\epsilon_r = 34.8$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5250$ MHz; $\sigma = 4.53$ S/m; $\epsilon_r = 34.7$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5500$ MHz; $\sigma = 4.77$ S/m; $\epsilon_r = 34.4$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5600$ MHz; $\sigma = 4.87$ S/m; $\epsilon_r = 34.2$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5750$ MHz; $\sigma = 5.03$ S/m; $\epsilon_r = 34$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5800$ MHz; $\sigma = 5.08$ S/m; $\epsilon_r = 34$; $\rho = 1000$ kg/m³
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(5.59, 5.59, 5.59); Calibrated: 31.12.2015, ConvF(5.53, 5.53, 5.53); Calibrated: 31.12.2015, ConvF(5.18, 5.18, 5.18); Calibrated: 31.12.2015, ConvF(4.99, 4.99, 4.99); Calibrated: 31.12.2015, ConvF(4.95, 4.95, 4.95); Calibrated: 31.12.2015, ConvF(4.95, 4.95, 4.95); Calibrated: 31.12.2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom Type: QD000P50AA
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 70.46 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 26.9 W/kg
SAR(1 g) = 7.44 W/kg; SAR(10 g) = 2.15 W/kg
Maximum value of SAR (measured) = 17.5 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 71.40 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 27.6 W/kg
SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.19 W/kg
Maximum value of SAR (measured) = 17.9 W/kg

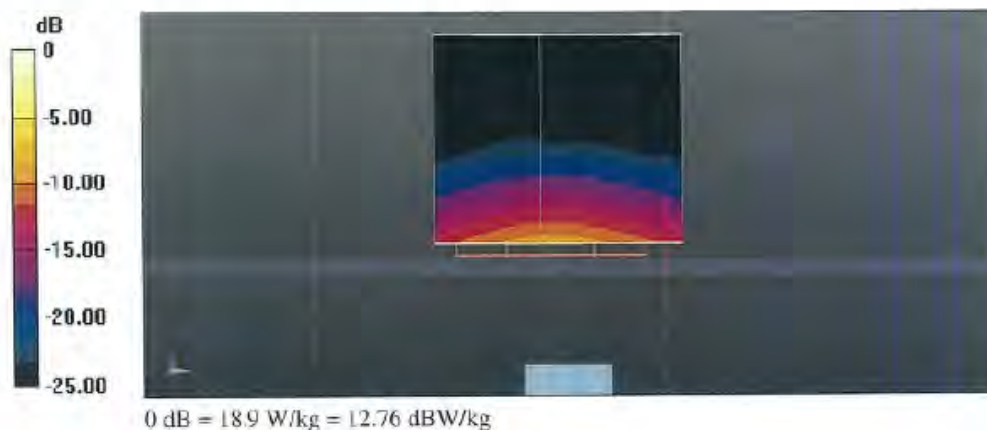
Appendix 3-10: Calibration certificate: Dipole (D5GHzV2) (cont'd)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5500 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 70.66 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 30.1 W/kg
SAR(1 g) = 7.71 W/kg; SAR(10 g) = 2.21 W/kg
Maximum value of SAR (measured) = 18.7 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 71.61 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 31.0 W/kg
SAR(1 g) = 7.93 W/kg; SAR(10 g) = 2.28 W/kg
Maximum value of SAR (measured) = 19.3 W/kg

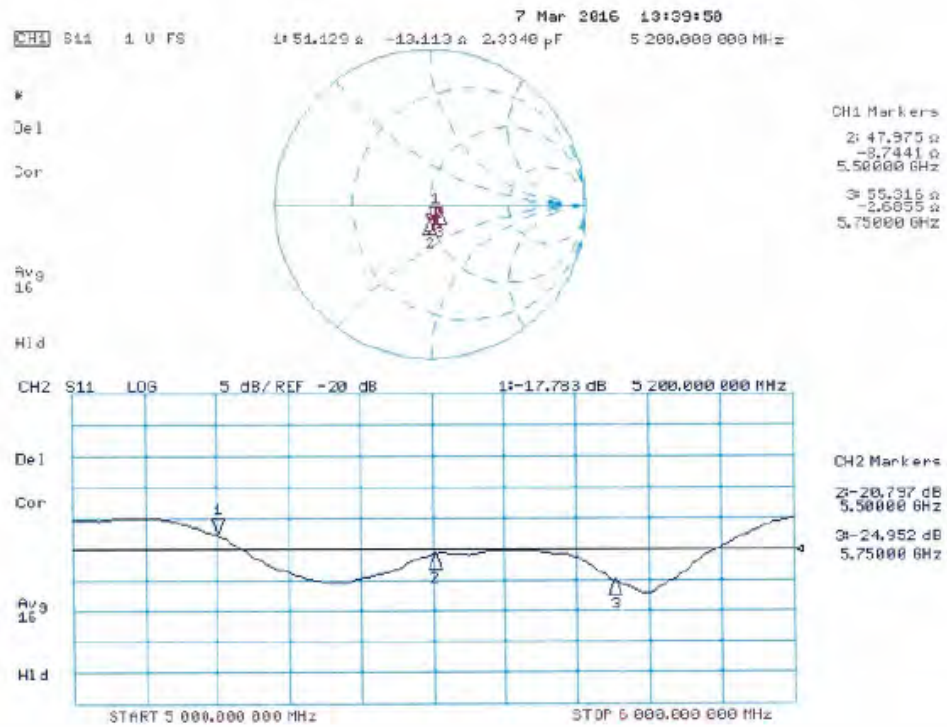
Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 69.14 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 31.0 W/kg
SAR(1 g) = 7.61 W/kg; SAR(10 g) = 2.18 W/kg
Maximum value of SAR (measured) = 18.8 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 69.07 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 31.2 W/kg
SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.17 W/kg
Maximum value of SAR (measured) = 18.9 W/kg



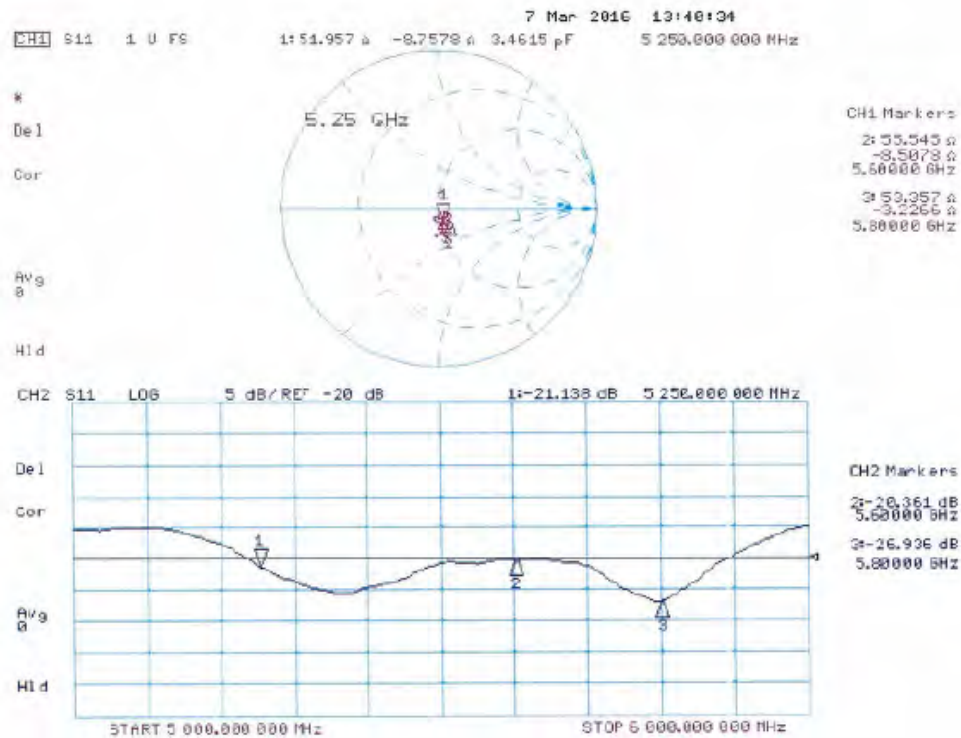
Appendix 3-10: Calibration certificate: Dipole (D5GHzV2) (cont'd)

Impedance Measurement Plot for Head TSL (5200, 5500, 5750)



Appendix 3-10: Calibration certificate: Dipole (D5GHzV2) (cont'd)

Impedance Measurement Plot for Head TSL (5250, 5600, 5800)



Appendix 3-10: Calibration certificate: Dipole (D5GHzV2) (cont'd)

DASY5 Validation Report for Body TSL

Date: 10.03.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1070

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750 MHz
Medium parameters used: $f = 5250$ MHz; $\sigma = 5.43$ S/m; $\epsilon_r = 47.3$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5600$ MHz; $\sigma = 5.9$ S/m; $\epsilon_r = 46.7$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5750$ MHz; $\sigma = 6.12$ S/m; $\epsilon_r = 46.4$; $\rho = 1000$ kg/m³
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

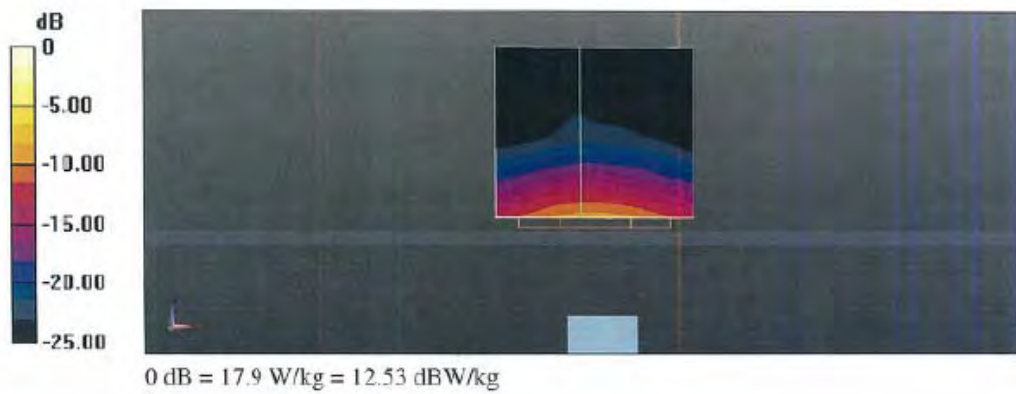
- Probe: EX3DV4 - SN3503; ConvF(4.85, 4.85, 4.85); Calibrated: 31.12.2015, ConvF(4.35, 4.35, 4.35); Calibrated: 31.12.2015, ConvF(4.3, 4.3, 4.3); Calibrated: 31.12.2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom Type: QD000P50AA
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 65.77 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 27.4 W/kg
SAR(1 g) = 7.27 W/kg; SAR(10 g) = 2.06 W/kg
Maximum value of SAR (measured) = 16.7 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 66.43 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 32.1 W/kg
SAR(1 g) = 7.82 W/kg; SAR(10 g) = 2.2 W/kg
Maximum value of SAR (measured) = 18.5 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 64.35 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 32.0 W/kg
SAR(1 g) = 7.45 W/kg; SAR(10 g) = 2.09 W/kg
Maximum value of SAR (measured) = 17.9 W/kg

Appendix 3-10: Calibration certificate: Dipole (D5GHzV2) (cont'd)



Appendix 3-10: Calibration certificate: Dipole (D5GHzV2) (cont'd)

Impedance Measurement Plot for Body TSL

