

APPENDIX 2: SAR Measurement data

SAR plot of worst reported SAR

Plot 1-1: Front-upper, 11b(1Mbps), 2462 MHz->Higher reported SAR(1g), 2.4GHz band

EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)

Mode: 11b(1Mbps, DBPSK/DSSS) (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2462 MHz; Crest Factor: 1.0

Medium: M2450(1911); Medium parameters used: $f = 2462$ MHz; $\sigma = 2.001$ S/m; $\epsilon_r = 50.51$; $\rho = 1000$ kg/m³

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

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(7.37, 7.37, 7.37) @ 2462 MHz; Calibrated: 2019/06/19

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

body,touch,near-ant/b12;2462,front-top3&d0,b(1m,max10)/

Area:108x72,12 (10x7x1): Measurement grid: dx=12mm, dy=12mm; Maximum value of SAR (measured)=0.277 W/kg

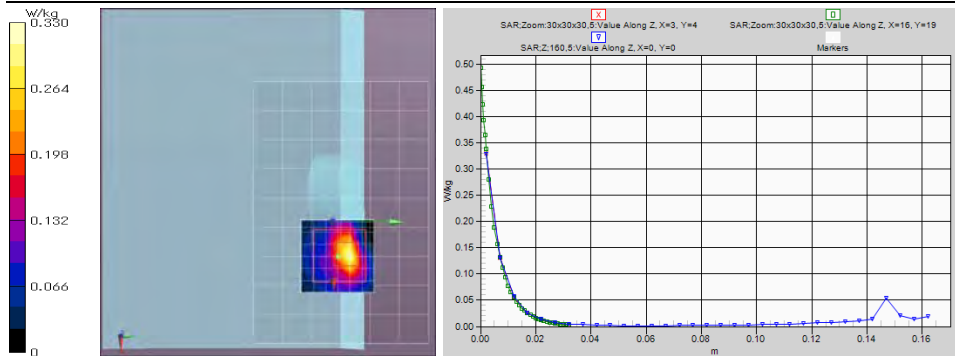
Area:108x72,12 (91x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm; Maximum value of SAR (interpolated)=0.280 W/kg

Z;160,5 (1x1x33): Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured)=0.329 W/kg

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

Reference Value = 10.63 V/m; Power Drift = -0.07 dB; Maximum value of SAR (measured)=0.330 W/kg; Peak SAR (extrapolated)=0.493 W/kg

SAR(1 g) = 0.168 W/kg; SAR(10 g) = 0.061 W/kg



Remarks: * Date tested: 2019/11/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70)%RH,
 * liquid temperature: 23.0(start)/23.0(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 2-1: Front-top-edge & touch, 11a(6Mbps), 5180 MHz->Higher reported SAR(1g), U-NII-1 band

EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)

Mode: 11a(6Mbps, BPSK/OFDM) (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5180 MHz; Crest Factor: 1.0

Medium: MSL5800(1911); Medium parameters used: $f = 5180$ MHz; $\sigma = 5.389$ S/m; $\epsilon_r = 46.94$; $\rho = 1000$ kg/m³

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

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.42, 4.42, 4.42) @ 5180 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0, 156.0

body,touch,near-ant2/5b16.53.6;5180,frt-top&d0,a(6m)/

Area:80x60,10 (9x7x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured)=0.808 W/kg

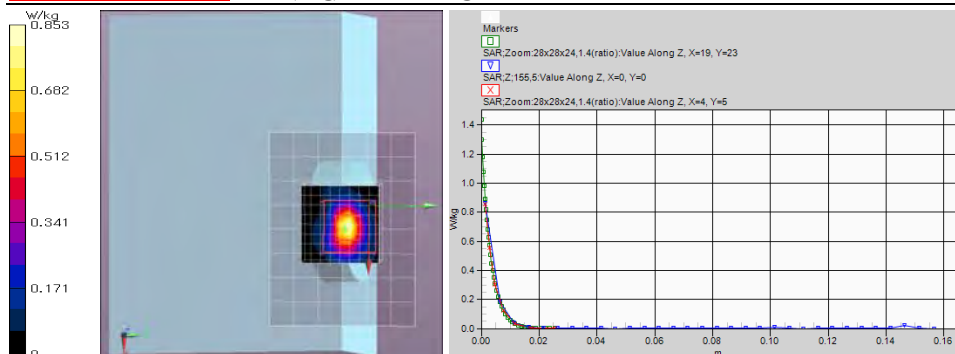
Area:80x60,10 (81x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated)=0.829 W/kg

Z;155,5 (1x1x32): Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured)=0.862 W/kg

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

Reference Value = 14.42 V/m; Power Drift = -0.03 dB; Maximum value of SAR (measured)=0.853 W/kg; Peak SAR (extrapolated)=1.43 W/kg

SAR(1 g) = 0.316 W/kg; SAR(10 g) = 0.079 W/kg



Remarks: * Date tested: 2019/11/12; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65)%RH,
 * liquid temperature: 22.9(start)/23.0(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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APPENDIX 2: SAR Measurement data (cont'd)**SAR plot of worst reported SAR****Plot 2-2: Front-top-edge & touch, 11a(6Mbps), 5260 MHz->Higher reported SAR(1g), U-NII-2A band****EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11a(6Mbps, BPSK/OFDM)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5260 MHz; Crest Factor: 1.0****Medium: MSL5800(1911); Medium parameters used: $f = 5260$ MHz; $\sigma = 5.479$ S/m; $\epsilon_r = 46.82$; $\rho = 1000$ kg/m³**

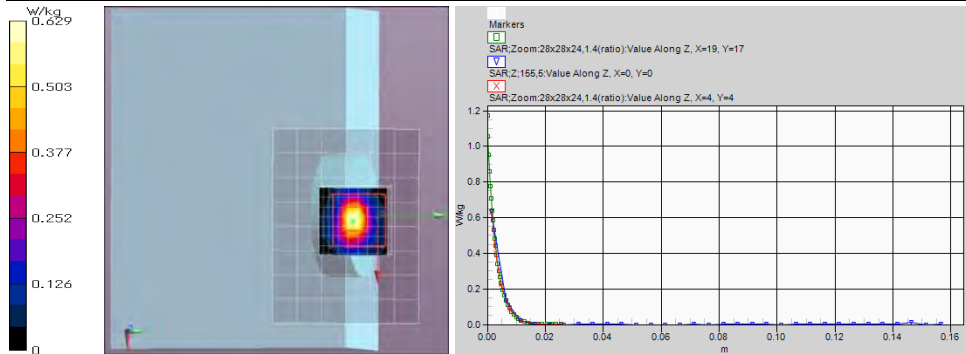
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.42, 4.42, 4.42) @ 5260 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0, 156.0$ **body,touch,near-ant/5b6.53.1;5260,frt-top&d0,a(6m)****Area:80x60,10 (9x7x1);** Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.471 W/kg**Area:80x60,10 (81x61x1);** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.564 W/kg**Z;155.5 (1x1x32);** Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm; Maximum value of SAR (measured) = 0.634 W/kg**Zoom:28x28x24,1.4(ratio) (8x8x7)/Cube 0;** Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 12.82 V/m; Power Drift = 0.02 dB; Maximum value of SAR (measured) = 0.629 W/kg; Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.243 W/kg; SAR(10 g) = 0.059 W/kg

Remarks: * Date tested: 2019/11/12; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
 * liquid temperature: 22.8(start)/22.8(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 3-1: Front-top-edge & touch, 11a(6Mbps), 5580 MHz->Higher reported SAR(1g), U-NII-2C band**EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11a(6Mbps, BPSK/OFDM)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5580 MHz; Crest Factor: 1.0****Medium: MSL5800(1911); Medium parameters used: $f = 5580$ MHz; $\sigma = 5.913$ S/m; $\epsilon_r = 46.27$; $\rho = 1000$ kg/m³**

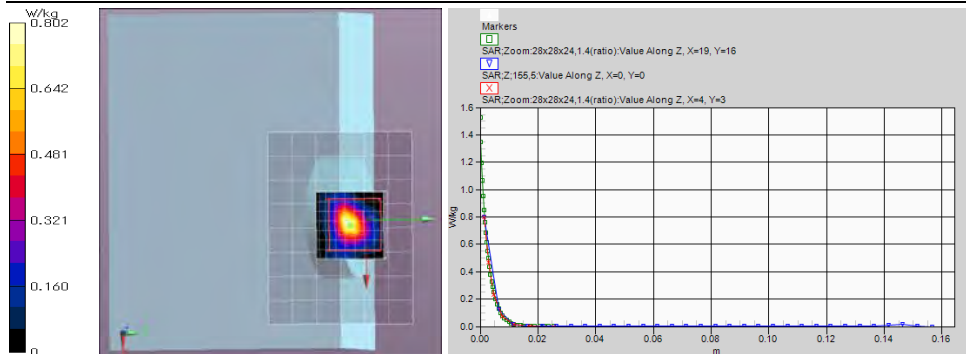
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(3.83, 3.83, 3.83) @ 5580 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0, 156.0$ **body,touch,near-ant/5b13.56.5;5580,frt-top&d0,a(6m)****Area:80x60,10 (9x7x1);** Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.509 W/kg**Area:80x60,10 (81x61x1);** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.625 W/kg**Z;155.5 (1x1x32);** Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm; Maximum value of SAR (measured) = 0.803 W/kg**Zoom:28x28x24,1.4(ratio) (8x8x7)/Cube 0;** Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 13.33 V/m; Power Drift = -0.07 dB; Maximum value of SAR (measured) = 0.802 W/kg; Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.274 W/kg; SAR(10 g) = 0.062 W/kg

Remarks: * Date tested: 2019/11/11; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
 * liquid temperature: 22.8(start)/22.8(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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APPENDIX 2: SAR Measurement data (cont'd)

SAR plot of worst reported SAR

Plot 4-1: Front-top-edge & touch, 11n(40HT)(MCS0), 5745 MHz->Higher reported SAR(1g), U-NII-3 band

EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)

Mode: 11a(6Mbps, BPSK/OFDM) (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5745 MHz; Crest Factor: 1.0

Medium: MSL5800(1911); Medium parameters used: $f = 5745$ MHz; $\sigma = 6.135$ S/m; $\epsilon_r = 46.03$; $\rho = 1000$ kg/m³

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

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.01, 4.01, 4.01) @ 5745 MHz; Calibrated: 2019/06/19

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

body,touch,near-ant/5b1.58.1;5745,frt-top&d0,a(6m)

Area:80x60,10 (9x7x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.294 W/kg

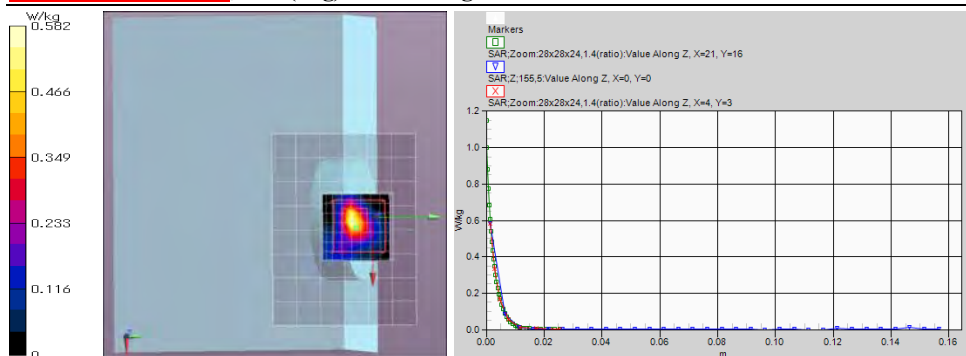
Area:80x60,10 (81x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.374 W/kg

Z;155,5 (1x1x32): Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 0.582 W/kg

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

Reference Value = 10.41 V/m; Power Drift = -0.08 dB; Maximum value of SAR (measured) = 0.582 W/kg; Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.043 W/kg



Remarks: * Date tested: 2019/11/11; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
* liquid temperature: 22.9(start)22.9(end)22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

APPENDIX 2: SAR Measurement data (cont'd)**SAR plots of other SAR test conditions****Plot 1-2: (2.4GHz band) Front-top-edge & touch, 11b(1Mbps), 2412 MHz****EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11b(1Mbps, DBPSK/DSSS)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2412 MHz; Crest Factor: 1.0****Medium: M2450(1911); Medium parameters used: $f = 2412$ MHz; $\sigma = 1.934$ S/m; $\epsilon_r = 50.69$; $\rho = 1000$ kg/m³**

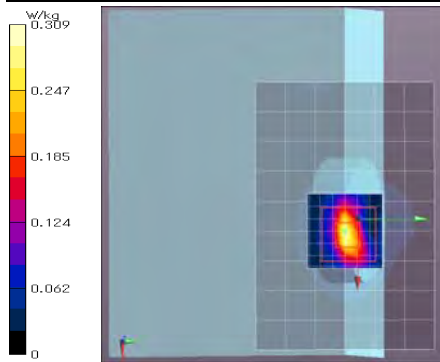
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) /-Probe: EX3DV4 - SN3907; ConvF(7.37, 7.37, 7.37) @ 2412 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$ **body,touch,near-ant/b1;2412,front-top&d0,b(1m,max10)****Area:108x72,12 (10x7x1):** Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured) = 0.314 W/kg**Area:108x72,12 (91x61x1):** Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated) = 0.314 W/kg**Zoom:30x30x30,5 (7x7x7)/Cube 0:** Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 12.88 V/m; Power Drift = -0.08 dB; Maximum value of SAR (measured) = 0.309 W/kg; Peak SAR (extrapolated) = 0.471 W/kg

SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.057 W/kg

Remarks: * Date tested: 2019/11/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70 %RH,
 * liquid temperature: 22.8(start)/22.7(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 1-3: (2.4GHz band) Front-upper & touch, 11b(1Mbps), 2412 MHz**EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11b(1Mbps, DBPSK/DSSS)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2412 MHz; Crest Factor: 1.0****Medium: M2450(1911); Medium parameters used: $f = 2412$ MHz; $\sigma = 1.934$ S/m; $\epsilon_r = 50.69$; $\rho = 1000$ kg/m³**

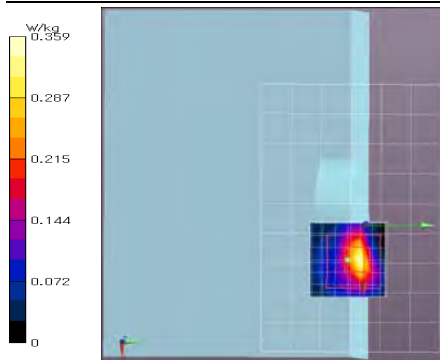
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) /-Probe: EX3DV4 - SN3907; ConvF(7.37, 7.37, 7.37) @ 2412 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$ **body,touch,near-ant/b10;2412,front-top3&d0,b(1m,max10)****Area:108x72,12 (10x7x1):** Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured) = 0.256 W/kg**Area:108x72,12 (91x61x1):** Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated) = 0.260 W/kg**Zoom:30x30x30,5 (7x7x7)/Cube 0:** Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 10.65 V/m; Power Drift = -0.11 dB; Maximum value of SAR (measured) = 0.359 W/kg; Peak SAR (extrapolated) = 0.524 W/kg

SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.064 W/kg

Remarks: * Date tested: 2019/11/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70 %RH,
 * liquid temperature: 23.0(start)/23.0(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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APPENDIX 2: SAR Measurement data (cont'd)**SAR plots of other SAR test conditions****Plot 1-4: (2.4GHz band) Top-front & touch, 11b(1Mbps), 2412 MHz****EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11b(1Mbps, DBPSK/DSSS)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2412 MHz; Crest Factor: 1.0****Medium: M2450(1911); Medium parameters used: $f = 2412$ MHz; $\sigma = 1.934$ S/m; $\epsilon_r = 50.69$; $\rho = 1000$ kg/m³**

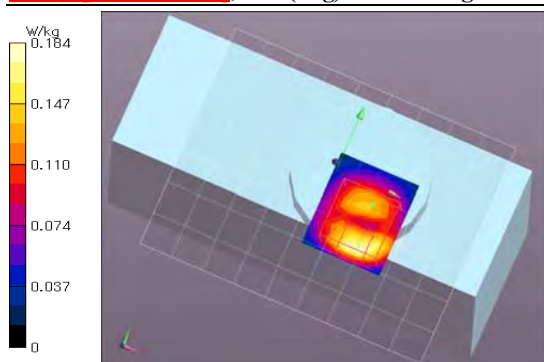
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(7.37, 7.37, 7.37) @ 2412 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$ **body,touch,other/b18;2412,top-front&d0,b(1m,max10)****Area:108x84,12 (10x8x1):** Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured)=0.127 W/kg**Area:108x84,12 (91x71x1):** Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated)=0.147 W/kg**Zoom:30x30x30,5 (7x8x7)/Cube 0:** Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 8.789 V/m; Power Drift = 0.04 dB; Maximum value of SAR (measured) = 0.184 W/kg; Peak SAR (extrapolated) = 0.285 W/kg

SAR(1 g) = 0.109 W/kg; SAR(10 g) = 0.052 W/kg

Remarks: * Date tested: 2019/11/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70 %RH,
 * liquid temperature: 23.0(start)/23.0(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 1-5: (2.4GHz band) Front-upper & touch, 11b(1Mbps), 2437 MHz**EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11b(1Mbps, DBPSK/DSSS)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2437 MHz; Crest Factor: 1.0****Medium: M2450(1911); Medium parameters used: $f = 2437$ MHz; $\sigma = 1.964$ S/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³**

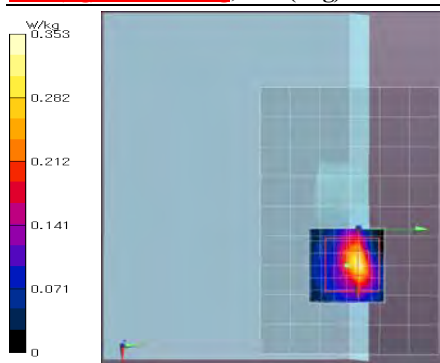
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(7.37, 7.37, 7.37) @ 2437 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$ **body,touch,near-ant/b11;2437,front-top3&d0,b(1m,max10)****Area:108x72,12 (10x7x1):** Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured)=0.274 W/kg**Area:108x72,12 (91x61x1):** Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated)=0.276 W/kg**Zoom:30x30x30,5 (7x7x7)/Cube 0:** Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm;

Reference Value = 10.62 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 0.353 W/kg; Peak SAR (extrapolated) = 0.519 W/kg

SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.064 W/kg

Remarks: * Date tested: 2019/11/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70 %RH,
 * liquid temperature: 23.0(start)/23.0(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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APPENDIX 2: SAR Measurement data (cont'd)**SAR plots of other SAR test conditions****Plot 1-6: (2.4GHz band) Front-upper & touch, BDR(DH5), 2402 MHz****EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: BDR(DH5, fixed frequency)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2402 MHz; Crest Factor: 1.0****Medium: M2450(1911); Medium parameters used: $f = 2402$ MHz; $\sigma = 1.918$ S/m; $\epsilon_r = 50.71$; $\rho = 1000$ kg/m³**

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

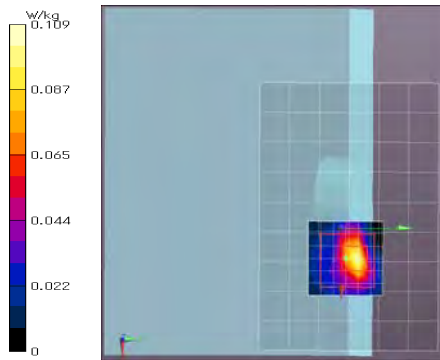
DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(7.37, 7.37, 7.37) @ 2402 MHz; Calibrated: 2019/06/19

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

body,touch,near-ant/ref,b16;2402,front-top3&d0,bdr(dh5)**Area:108x72,12 (10x7x1):** Measurement grid: dx=12mm, dy=12mm; Maximum value of SAR (measured)=0.0920 W/kg**Area:108x72,12 (91x61x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm; Maximum value of SAR (interpolated)=0.0942 W/kg**Zoom:30x30x30,5 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Reference Value = 6.461 V/m; Power Drift = -0.07 dB; Maximum value of SAR (measured)=0.109 W/kg; Peak SAR (extrapolated)=0.169 W/kg

SAR(1 g)=0.055 W/kg; SAR(10 g)=0.020 W/kg

Remarks: * Date tested: 2019/11/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70 %RH,
* liquid temperature: 23.0(start)/23.0(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 1-7: (2.4GHz band) Front-upper & touch, BT-LE(1Mbps), 2402 MHz**EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: BT-LE(PHY1, fixed frequency)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2402 MHz; Crest Factor: 1.0****Medium: M2450(1911); Medium parameters used: $f = 2402$ MHz; $\sigma = 1.918$ S/m; $\epsilon_r = 50.71$; $\rho = 1000$ kg/m³**

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

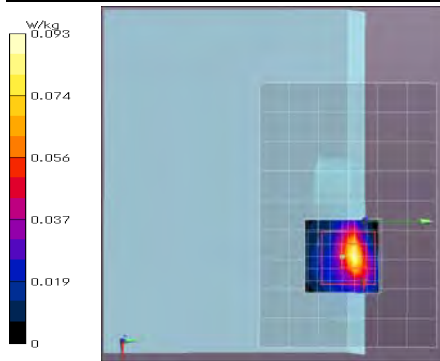
DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(7.37, 7.37, 7.37) @ 2402 MHz; Calibrated: 2019/06/19

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

body,touch,near-ant/b17;2402,front-top3&d0,ble(1m)**Area:108x72,12 (10x7x1):** Measurement grid: dx=12mm, dy=12mm; Maximum value of SAR (measured)=0.0734 W/kg**Area:108x72,12 (91x61x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm; Maximum value of SAR (interpolated)=0.0755 W/kg**Zoom:30x30x30,5 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Reference Value = 5.045 V/m; Power Drift = -0.05 dB; Maximum value of SAR (measured)=0.0926 W/kg; Peak SAR (extrapolated)=0.137 W/kg

SAR(1 g)=0.045 W/kg; SAR(10 g)=0.016 W/kg

Remarks: * Date tested: 2019/11/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70 %RH,
* liquid temperature: 23.0(start)/23.0(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

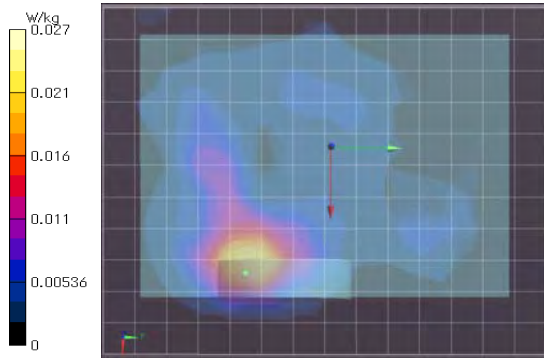
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APPENDIX 2: SAR Measurement data (cont'd)**SAR plots of other SAR test conditions****Plot 1-8: (2.4GHz band) Front (Lens) & touch, 11b(1Mbps), 2412 MHz****EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11b(1Mbps, DBPSK/DSSS)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2412 MHz; Crest Factor: 1.0****Medium: M2450(1911); Medium parameters used: $f = 2412$ MHz; $\sigma = 1.934$ S/m; $\epsilon_r = 50.69$; $\rho = 1000$ kg/m³**

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

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(7.37, 7.37, 7.37) @ 2412 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0$ **body,touch,other/b20;2412,front(lens)&d0,b(1m,max10)****Area:132x168,12 (12x15x1):** Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured)=0.0216 W/kg**Area:132x168,12 (111x141x1):** Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated)=0.0268 W/kg

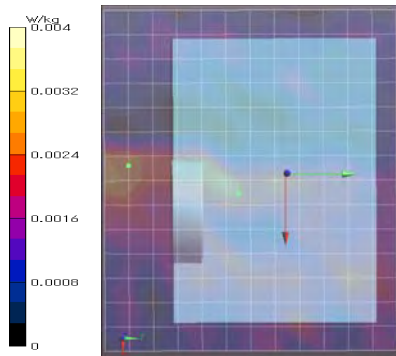
Remarks: * . Date tested: 2019/11/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * . liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70 %RH,
 * . liquid temperature: 23.0(start)23.0(end)22.9(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 1-9: (2.4GHz band) Rear (LCD, Close-reverse) & touch, 11b(1Mbps), 2412 MHz**EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11b(1Mbps, DBPSK/DSSS)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2412 MHz; Crest Factor: 1.0****Medium: M2450(1911); Medium parameters used: $f = 2412$ MHz; $\sigma = 1.934$ S/m; $\epsilon_r = 50.69$; $\rho = 1000$ kg/m³**

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

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(7.37, 7.37, 7.37) @ 2412 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0$ **body,touch,other/b21;2412,rear(lcd-cl-rvs)&d0,b(1m,max10)****Area:168x144,12 (15x13x1):** Measurement grid: $dx=12$ mm, $dy=12$ mm; Maximum value of SAR (measured)=0.00284 W/kg**Area:168x144,12 (141x121x1):** Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm; Maximum value of SAR (interpolated)=0.00569 W/kg

Remarks: * . Date tested: 2019/11/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * . liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70 %RH,
 * . liquid temperature: 23.0(start)23.0(end)22.9(in check) deg.C.; * . White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

APPENDIX 2: SAR Measurement data (cont'd)

SAR plots of other SAR test conditions

Plot 2-3: (U-NII-2A(&U-NIII-1) band) Front-upper & touch, 11a(6Mbps), 5260 MHz

EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)

Mode: 11a(6Mbps, BPSK/OFDM) (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5260 MHz; Crest Factor: 1.0

Medium: MSL5800(1911); Medium parameters used: $f = 5260$ MHz; $\sigma = 5.479$ S/m; $\epsilon_r = 46.82$; $\rho = 1000$ kg/m³

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

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.42, 4.42, 4.42) @ 5260 MHz; Calibrated: 2019/06/19

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

body,touch,near-ant/5b7.53.2;5260,frt-top2&d0,a(6m)/

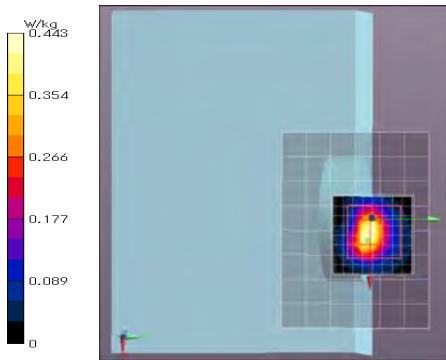
Area:80x60,10 (9x7x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.313 W/kg

Area:80x60,10 (81x61x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.471 W/kg

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

Reference Value = 10.35 V/m; Power Drift = -0.20 dB; Maximum value of SAR (measured) = 0.443 W/kg; Peak SAR (extrapolated) = 0.725 W/kg

SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.047 W/kg



Remarks: * Date tested: 2019/11/12; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
* liquid temperature: 22.8(start)/22.8(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 2-4: (U-NII-2A(&U-NIII-1) band) Top-front & touch, 11a(6Mbps), 5260 MHz

EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)

Mode: 11a(6Mbps, BPSK/OFDM) (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5260 MHz; Crest Factor: 1.0

Medium: MSL5800(1911); Medium parameters used: $f = 5260$ MHz; $\sigma = 5.479$ S/m; $\epsilon_r = 46.82$; $\rho = 1000$ kg/m³

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

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.42, 4.42, 4.42) @ 5260 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$

body,touch,near-ant/5b12.53.3;5260,top-frt&d0,a(6m)/

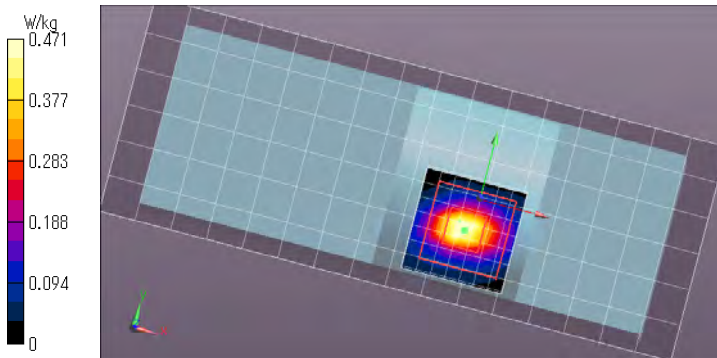
Area:160x60,10 (17x7x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.458 W/kg

Area:160x60,10 (161x61x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.489 W/kg

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

Reference Value = 11.29 V/m; Power Drift = 0.04 dB; Maximum value of SAR (measured) = 0.471 W/kg; Peak SAR (extrapolated) = 0.862 W/kg

SAR(1 g) = 0.185 W/kg; SAR(10 g) = 0.047 W/kg



Remarks: * Date tested: 2019/11/12; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
* liquid temperature: 22.8(start)/22.8(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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APPENDIX 2: SAR Measurement data (cont'd)**SAR plots of other SAR test conditions****Plot 2-5: (U-NII-2A(&U-NII-1) band) Front-top-edge & touch, 11a(6Mbps), 5300 MHz****EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11a(6Mbps, BPSK/OFDM) (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5300 MHz; Crest Factor: 1.0****Medium: MSL5800(1911); Medium parameters used: $f = 5300$ MHz; $\sigma = 5.542$ S/m; $\epsilon_r = 46.72$; $\rho = 1000$ kg/m³**

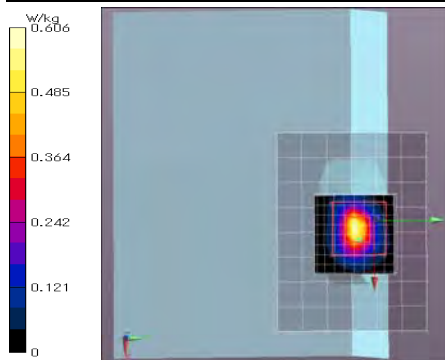
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.42, 4.42, 4.42) @ 5300 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$ **body,touch,near-ant/5b15.53.5;5300,frt-top&d0,a(6m)/****Area:80x60,10 (9x7x1):** Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.562 W/kg**Area:80x60,10 (81x61x1):** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.760 W/kg**Zoom:28x28x24,1.4(ratio) (9x9x7)/Cube 0:** Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 10.63 V/m; Power Drift = 0.05 dB; Maximum value of SAR (measured) = 0.606 W/kg; Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.217 W/kg; SAR(10 g) = 0.053 W/kg

Remarks: * Date tested: 2019/11/12; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
 * liquid temperature: 22.9(start)/22.9(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 2-6: (U-NII-2A(&U-NII-1) band) Front-top-edge & touch, 11a(6Mbps), 5320 MHz**EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11a(6Mbps, BPSK/OFDM) (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5320 MHz; Crest Factor: 1.0****Medium: MSL5800(1911); Medium parameters used: $f = 5320$ MHz; $\sigma = 5.572$ S/m; $\epsilon_r = 46.70$; $\rho = 1000$ kg/m³**

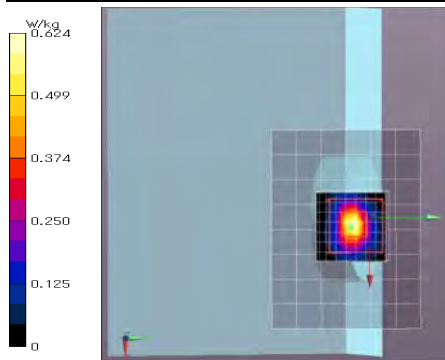
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.42, 4.42, 4.42) @ 5320 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$ **body,touch,near-ant/5b14.53.4;5320,frt-top&d0,a(6m)/****Area:80x60,10 (9x7x1):** Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.607 W/kg**Area:80x60,10 (81x61x1):** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.725 W/kg**Zoom:28x28x24,1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 12.33 V/m; Power Drift = 0.04 dB; Maximum value of SAR (measured) = 0.624 W/kg; Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.221 W/kg; SAR(10 g) = 0.050 W/kg

Remarks: * Date tested: 2019/11/12; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
 * liquid temperature: 22.8(start)/22.8(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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APPENDIX 2: SAR Measurement data (cont'd)

SAR plots of other SAR test conditions

Plot 2-7: (U-NII-2A(&U-NII-1) band) Front-top-edge & touch, 11a(6Mbps), 5220 MHz

EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)

Mode: 11a(6Mbps, BPSK/OFDM) (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5220 MHz; Crest Factor: 1.0

Medium: MSL5800(1911); Medium parameters used: $f = 5220$ MHz; $\sigma = 5.449$ S/m; $\epsilon_r = 46.91$; $\rho = 1000$ kg/m³

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

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.42, 4.42, 4.42) @ 5220 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$

body,touch,near-ant2/5b17.53.7;5220,frt-top&d0,a(6m)/

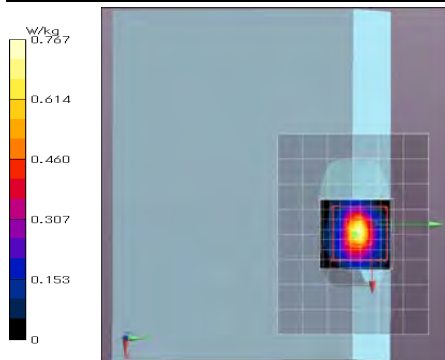
Area:80x60,10 (9x7x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.697 W/kg

Area:80x60,10 (81x61x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.723 W/kg

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

Reference Value = 13.48 V/m; Power Drift = 0.13 dB; Maximum value of SAR (measured) = 0.767 W/kg; Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.279 W/kg; SAR(10 g) = 0.069 W/kg



Remarks: * Date tested: 2019/11/12; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
* liquid temperature: 23.0(start)/22.9(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 2-8: (U-NII-2A(&U-NII-1) band) Front-top-edge & touch, 11a(6Mbps), 5240 MHz

EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)

Mode: 11a(6Mbps, BPSK/OFDM) (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5240 MHz; Crest Factor: 1.0

Medium: MSL5800(1911); Medium parameters used: $f = 5240$ MHz; $\sigma = 5.468$ S/m; $\epsilon_r = 46.86$; $\rho = 1000$ kg/m³

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

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.42, 4.42, 4.42) @ 5240 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$

body,touch,near-ant2/5b18.53.8;5240,frt-top&d0,a(6m)/

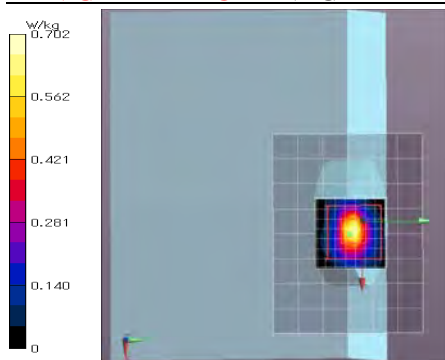
Area:80x60,10 (9x7x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.641 W/kg

Area:80x60,10 (81x61x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.663 W/kg

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

Reference Value = 12.99 V/m; Power Drift = 0.15 dB; Maximum value of SAR (measured) = 0.702 W/kg; Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.256 W/kg; SAR(10 g) = 0.062 W/kg



Remarks: * Date tested: 2019/11/12; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
* liquid temperature: 22.9(start)/22.9(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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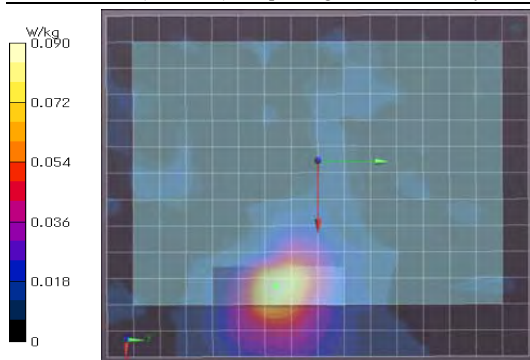
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN
Telephone: +81 463 50 6400 / Facsimile: +81 463 50 6401

APPENDIX 2: SAR Measurement data (cont'd)**SAR plots of other SAR test conditions****Plot 2-9: (U-NII-2A(&U-NII-1) band) Front (Lens) & touch, 11a(6Mbps), 5260 MHz****EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11a(6Mbps, BPSK/OFDM)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5260 MHz; Crest Factor: 1.0****Medium: MSL5800(1911); Medium parameters used: $f = 5260$ MHz; $\sigma = 5.479$ S/m; $\epsilon_r = 46.82$; $\rho = 1000$ kg/m³**

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

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.42, 4.42, 4.42) @ 5260 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0$ **body,touch,other/5b27.53.13;5260,frt(lens)&d0,a(6m)****Area:130x160,10 (14x17x1):** Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured)=0.0732 W/kg**Area:130x160,10 (131x161x1):** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated)=0.0900 W/kg

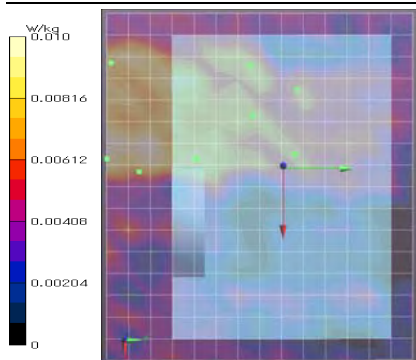
Remarks: * Date tested: 2019/11/12; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
 * liquid temperature: 23.0(start)23.0(end)22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Plot 2-10: (U-NII-2A(&U-NII-1) band) Rear (LCD, Close-reverse) & touch, 11a(6Mbps), 5260 MHz**EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11a(6Mbps, BPSK/OFDM)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5260 MHz; Crest Factor: 1.0****Medium: MSL5800(1911); Medium parameters used: $f = 5260$ MHz; $\sigma = 5.479$ S/m; $\epsilon_r = 46.82$; $\rho = 1000$ kg/m³**

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

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.42, 4.42, 4.42) @ 5260 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0$ **body,touch,other/5b30.53.14;5260,rear(lcd-cl-rvs)&d0,a(6m)****Area:160x140,10 (17x15x1):** Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured)=0.0102 W/kg**Area:160x140,10 (161x141x1):** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated)=0.0313 W/kg

Remarks: * Date tested: 2019/11/12; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
 * liquid temperature: 23.0(start)23.0(end)22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

APPENDIX 2: SAR Measurement data (cont'd)**SAR plots of other SAR test conditions****Plot 3-2: (U-NII-2C band) Front-top-edge & touch, 11a(6Mbps), 5500 MHz****EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11a(6Mbps, BPSK/OFDM)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5500 MHz; Crest Factor: 1.0****Medium: MSL5800(1911); Medium parameters used: $f = 5500$ MHz; $\sigma = 5.805$ S/m; $\epsilon_r = 46.37$; $\rho = 1000$ kg/m³**

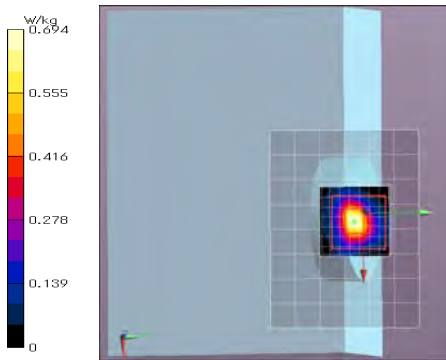
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(3.83, 3.83, 3.83) @ 5500 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$ **body,touch,near-ant/5b5.562;5500,frt-top&d0,a(6m)/****Area:80x60,10 (9x7x1):** Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.454 W/kg**Area:80x60,10 (81x61x1):** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.623 W/kg**Zoom:28x28x24,1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 13.29 V/m; Power Drift = -0.05 dB; Maximum value of SAR (measured) = 0.694 W/kg; Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.252 W/kg; SAR(10 g) = 0.053 W/kg

Remarks: * Date tested: 2019/11/11; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
 * liquid temperature: 22.8(start)/22.8(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 3-3: (U-NII-2C band) Front-upper & touch, 11a(6Mbps), 5500 MHz**EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11a(6Mbps, BPSK/OFDM)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5500 MHz; Crest Factor: 1.0****Medium: MSL5800(1911); Medium parameters used: $f = 5500$ MHz; $\sigma = 5.805$ S/m; $\epsilon_r = 46.37$; $\rho = 1000$ kg/m³**

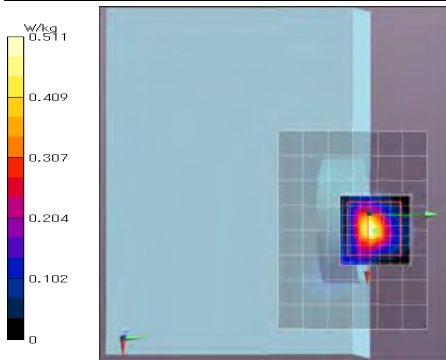
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(3.83, 3.83, 3.83) @ 5500 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$ **body,touch,near-ant/5b8.563;5500,frt-top2&d0,a(6m)/****Area:80x60,10 (9x7x1):** Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.417 W/kg**Area:80x60,10 (81x61x1):** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.432 W/kg**Zoom:28x28x24,1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 10.44 V/m; Power Drift = -0.18 dB; Maximum value of SAR (measured) = 0.511 W/kg; Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.187 W/kg; SAR(10 g) = 0.046 W/kg

Remarks: * Date tested: 2019/11/11; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
 * liquid temperature: 22.8(start)/22.8(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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APPENDIX 2: SAR Measurement data (cont'd)

SAR plots of other SAR test conditions

Plot 3-4: (U-NII-2C band) Top-front & touch, 11a(6Mbps), 5500 MHz

EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)

Mode: 11a(6Mbps, BPSK/OFDM) (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5500 MHz; Crest Factor: 1.0

Medium: MSL5800(1911); Medium parameters used: $f = 5500$ MHz; $\sigma = 5.805$ S/m; $\epsilon_r = 46.37$; $\rho = 1000$ kg/m³

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

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(3.83, 3.83, 3.83) @ 5500 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$

body,touch,near-ant/5b11.56.4;5500,top-frt&d0,a(6m)/

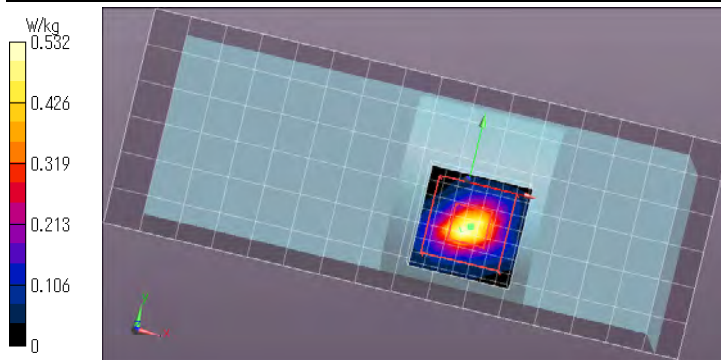
Area:160x60,10 (17x7x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured)=0.448 W/kg

Area:160x60,10 (161x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated)=0.527 W/kg

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

Reference Value = 11.16 V/m; Power Drift = 0.03 dB; Maximum value of SAR (measured)=0.532 W/kg; Peak SAR (extrapolated)=0.868 W/kg

SAR(1 g)=0.191 W/kg; SAR(10 g)=0.045 W/kg



Remarks: * Date tested: 2019/11/11; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
* liquid temperature: 22.8(start)/22.8(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 3-5: (U-NII-2C band) Front-top-edge & touch, 11a(6Mbps), 5700 MHz

EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)

Mode: 11a(6Mbps, BPSK/OFDM) (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5700 MHz; Crest Factor: 1.0

Medium: MSL5800(1911); Medium parameters used: $f = 5700$ MHz; $\sigma = 6.079$ S/m; $\epsilon_r = 46.14$; $\rho = 1000$ kg/m³

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

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(3.83, 3.83, 3.83) @ 5700 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$

body,touch,near-ant/5b4.56.1;5700,frt-top&d0,a(6m)/

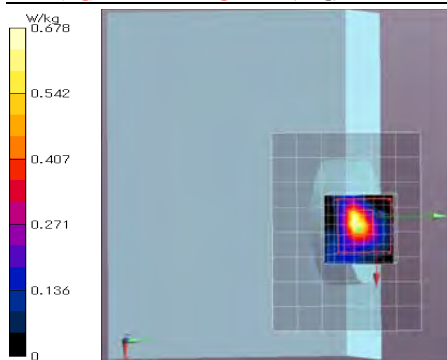
Area:80x60,10 (9x7x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured)=0.314 W/kg

Area:80x60,10 (81x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated)=0.430 W/kg

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

Reference Value = 11.48 V/m; Power Drift = 0.13 dB; Maximum value of SAR (measured)=0.678 W/kg; Peak SAR (extrapolated)=1.73 W/kg

SAR(1 g)=0.221 W/kg; SAR(10 g)=0.050 W/kg



Remarks: * Date tested: 2019/11/11; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
* liquid temperature: 22.7(start)/22.8(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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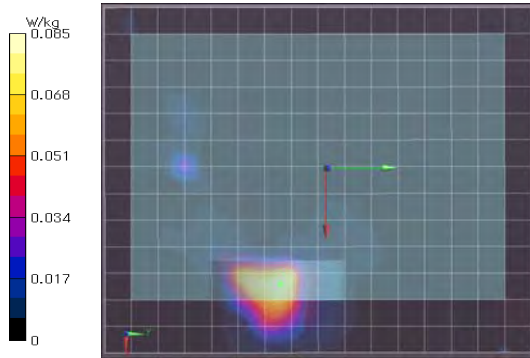
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APPENDIX 2: SAR Measurement data (cont'd)**SAR plots of other SAR test conditions****Plot 3-6: (U-NII-2C band) Front (Lens) & touch, 11a(6Mbps), 5500 MHz****EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11a(6Mbps, BPSK/OFDM)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5500 MHz; Crest Factor: 1.0****Medium: MSL5800(1911); Medium parameters used: $f = 5500$ MHz; $\sigma = 5.805$ S/m; $\epsilon_r = 46.37$; $\rho = 1000$ kg/m³**

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

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(3.83, 3.83, 3.83) @ 5500 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), $z = 1.0$ **body,touch,other/5b28.56.8;5500,frt(lens)&d0,a(6m)****Area:130x160,10 (14x17x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured)=0.0620 W/kg**Area:130x160,10 (131x161x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated)=0.0853 W/kg

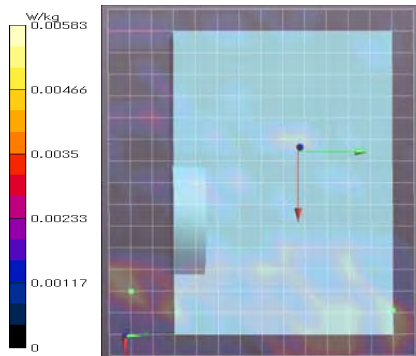
Remarks: * Date tested: 2019/11/11; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
 * liquid temperature: 23.0(start)23.0(end)22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Plot 3-7: (U-NII-2C band) Rear (LCD, Close-reverse) & touch, 11a(6Mbps), 5500 MHz**EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11a(6Mbps, BPSK/OFDM)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5500 MHz; Crest Factor: 1.0****Medium: MSL5800(1911); Medium parameters used: $f = 5500$ MHz; $\sigma = 5.805$ S/m; $\epsilon_r = 46.37$; $\rho = 1000$ kg/m³**

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

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(3.83, 3.83, 3.83) @ 5500 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0$ **body,touch,other/5b31.56.9;5500,rear(lcd-cl-rvs)&d0,a(6m)****Area:160x140,10 (17x15x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured)=0.00583 W/kg**Area:160x140,10 (161x141x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated)=0.00618 W/kg

Remarks: * Date tested: 2019/11/11; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
 * liquid temperature: 23.0(start)23.0(end)22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

APPENDIX 2: SAR Measurement data (cont'd)**SAR plots of other SAR test conditions****Plot 4-2: (U-NII-3 band) Front-upper & touch, 11a(6Mbps), 5745 MHz****EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11a(6Mbps, BPSK/OFDM)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5745 MHz; Crest Factor: 1.0****Medium: MSL5800(1911); Medium parameters used: $f = 5745$ MHz; $\sigma = 6.135$ S/m; $\epsilon_r = 46.03$; $\rho = 1000$ kg/m³**

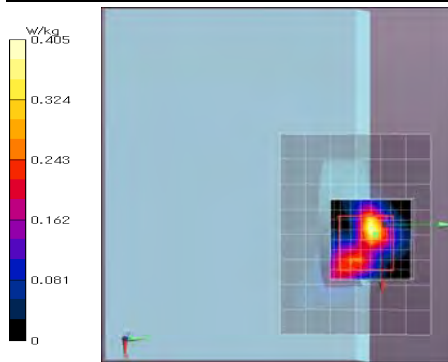
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.01, 4.01, 4.01) @ 5745 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)); Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$ **body,touch,near-ant/5b9.58.4;5745,frt-top2&d0.a(6m/)****Area:80x60,10 (9x7x1):** Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.278 W/kg**Area:80x60,10 (81x61x1):** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.294 W/kg**Zoom:28x28x24,1.4(ratio) (9x9x7)/Cube 0:** Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 8.657 V/m; Power Drift = 0.01 dB; Maximum value of SAR (measured) = 0.405 W/kg; Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.131 W/kg; SAR(10 g) = 0.035 W/kg

Remarks: * Date tested: 2019/11/11; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
 * liquid temperature: 22.8(start)/22.8(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 4-3: (U-NII-3 band) Top-front & touch, 11a(6Mbps), 5745 MHz**EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11a(6Mbps, BPSK/OFDM)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5745 MHz; Crest Factor: 1.0****Medium: MSL5800(1911); Medium parameters used: $f = 5745$ MHz; $\sigma = 6.135$ S/m; $\epsilon_r = 46.03$; $\rho = 1000$ kg/m³**

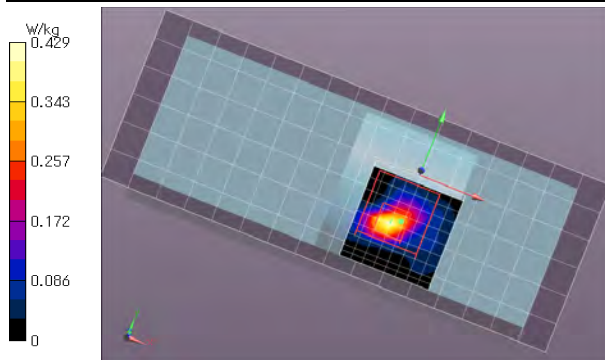
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.01, 4.01, 4.01) @ 5745 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$ **body,touch,near-ant/5b10.58.5;5745,top-frt&d0.a(6m/)****Area:80x60,10 (17x7x1):** Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.291 W/kg**Area:80x60,10 (161x61x1):** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.403 W/kg**Zoom:28x28x24,1.4(ratio) (9x9x7)/Cube 0:** Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 8.627 V/m; Power Drift = -0.08 dB; Maximum value of SAR (measured) = 0.429 W/kg; Peak SAR (extrapolated) = 0.724 W/kg

SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.030 W/kg

Remarks: * Date tested: 2019/11/11; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
 * liquid temperature: 22.8(start)/22.8(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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APPENDIX 2: SAR Measurement data (cont'd)**SAR plots of other SAR test conditions****Plot 4-4: (U-NII-3 band) Front-top-edge & touch, 11a(6Mbps), 5785 MHz****EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11a(6Mbps, BPSK/OFDM)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5785 MHz; Crest Factor: 1.0****Medium: MSL5800(1911); Medium parameters used: $f = 5785$ MHz; $\sigma = 6.206$ S/m; $\epsilon_r = 45.95$; $\rho = 1000$ kg/m³**

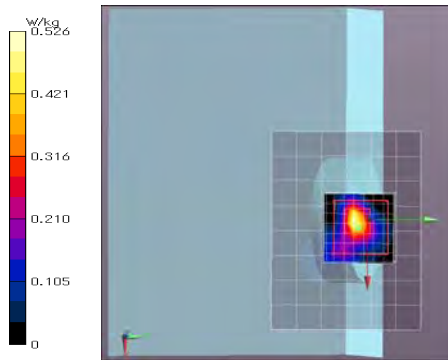
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.01, 4.01, 4.01) @ 5785 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)); Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$ **body,touch,near-ant/5b3.583;5785,frt-top&d0,a(6m)/****Area:80x60,10 (9x7x1):** Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.259 W/kg**Area:80x60,10 (81x61x1):** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.369 W/kg**Zoom:28x28x24,1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 9.765 V/m; Power Drift = 0.07 dB; Maximum value of SAR (measured) = 0.526 W/kg; Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.038 W/kg

Remarks: * Date tested: 2019/11/11; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
 * liquid temperature: 22.9(start)/22.8(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

Plot 4-5: (U-NII-3 band) Front-top-edge & touch, 11a(6Mbps), 5825 MHz**EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11a(6Mbps, BPSK/OFDM)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5825 MHz; Crest Factor: 1.0****Medium: MSL5800(1911); Medium parameters used: $f = 5825$ MHz; $\sigma = 6.253$ S/m; $\epsilon_r = 45.89$; $\rho = 1000$ kg/m³**

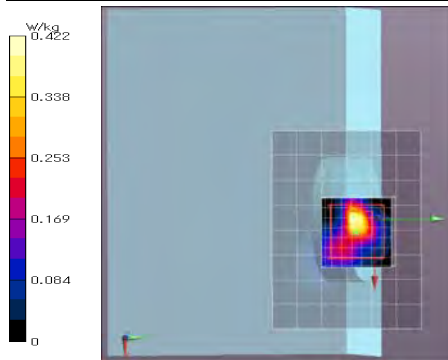
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.01, 4.01, 4.01) @ 5825 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)); Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$ **body,touch,near-ant/5b2.582;5825,frt-top&d0,a(6m)/****Area:80x60,10 (9x7x1):** Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 0.254 W/kg**Area:80x60,10 (81x61x1):** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 0.301 W/kg**Zoom:28x28x24,1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;

Reference Value = 8.181 V/m; Power Drift = 0.03 dB; Maximum value of SAR (measured) = 0.422 W/kg; Peak SAR (extrapolated) = 0.902 W/kg

SAR(1 g) = 0.142 W/kg; SAR(10 g) = 0.035 W/kg

Remarks: * Date tested: 2019/11/11; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
 * liquid temperature: 22.9(start)/22.9(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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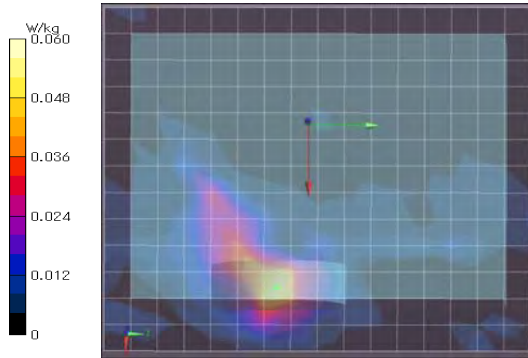
Telephone: +81 463 50 6400 / Facsimile: +81 463 50 6401

APPENDIX 2: SAR Measurement data (cont'd)**SAR plots of other SAR test conditions****Plot 4-6: (U-NII-3 band) Front (Lens) & touch, 11a(6Mbps), 5745 MHz****EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11a(6Mbps, BPSK/OFDM)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5745 MHz; Crest Factor: 1.0****Medium: MSL5800(1911); Medium parameters used: $f = 5745$ MHz; $\sigma = 6.135$ S/m; $\epsilon_r = 46.03$; $\rho = 1000$ kg/m³**

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

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.01, 4.01, 4.01) @ 5745 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), $z = 1.0$ **body,touch,other/5b29.58.8;5745.frq(lens)&d0.a(6m)****Area:130x160,10 (14x17x1):** Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured)=0.0452 W/kg**Area:130x160,10 (131x161x1):** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated)=0.0602 W/kg

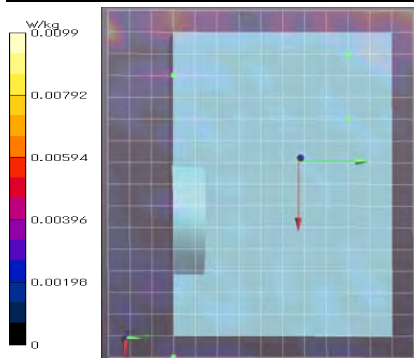
Remarks: * Date tested: 2019/11/11; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
 * liquid temperature: 23.0(start)23.0(end)22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

Plot 4-7: (U-NII-3 band) Rear (LCD, Close-reverse) & touch, 11a(6Mbps), 5745 MHz**EUT: Wireless LAN/Bluetooth combo module in Digital camera; Type: ES204(camera:DS126836); Serial: DE1-C-012(camera:3)****Mode: 11a(6Mbps, BPSK/OFDM)** (UID: 0, Wi-fi_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5745 MHz; Crest Factor: 1.0****Medium: MSL5800(1911); Medium parameters used: $f = 5745$ MHz; $\sigma = 6.135$ S/m; $\epsilon_r = 46.03$; $\rho = 1000$ kg/m³**

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

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.01, 4.01, 4.01) @ 5745 MHz; Calibrated: 2019/06/19

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0$ **body,touch,other/5b32.58.9;5745.rear(lcd-cl-rvs)&d0.a(6m)****Area:160x140,10 (17x15x1):** Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured)=0.00990 W/kg**Area:160x140,10 (161x141x1):** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated)=0.00400 W/kg

Remarks: * Date tested: 2019/11/11; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~65) %RH,
 * liquid temperature: 23.0(start)23.0(end)22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

APPENDIX 3: Test instruments**Appendix 3-1: Equipment used**

Test Name	Local ID	LIMS ID	Description	Manufacturer	Model	Serial	Calibration	
							Last Date	Interval (Months)
AT	KAT10-S3	144893	Attenuator	AGILENT	8490D 010	50924	2018/12/12	12
AT	KPM-08	145105	Power meter	ANRITSU	ML2495A	6K00003356	2019/09/09	12
AT	KPSS-04	144991	Power sensor	ANRITSU	MA2411B	12088	2019/09/09	12
AT	SPM-13	169910	Power Meter	EMC Instruments Corporation	8990B	MY51000448	2019/03/06	12
AT	SPS-07	145631	Power Supply	NF CORPORATION	EPO2000S	9102649	2017/03/19	36
AT	SPSS-06	169911	Power sensor	EMC Instruments Corporation	N1923A	MY57270004	2019/03/06	12
AT	SRENT-15	160899	Spectrum Analyzer	AGILENT (KEYSIGHT)	E4440A	MY46185516	2019/01/21	12
AT.SAR	SOS-11	146296	Humidity Indicator	A&D	AD-5681	4063424	2019/01/11	12
SAR	COTS-SSAR-02	144885	DASY52 software	Schmid&Partner Engineering AG	DASY5 PRO	Ver.52.10.2.1495	-	-
SAR	COTS-SSEP-02	144886	Dielectric assessment software	Schmid&Partner Engineering AG	DAK	Ver.DAK1.10.317.11	-	-
SAR	KAT10-P1	144882	Attenuator	Weinschel - API Technologies Corp	24-10-34	BY5927	2018/12/12	12
SAR	KCPL-07	146100	Directional Coupler	Pulsar Microwave Corp.	CCS30-B26	621	-	-
SAR	KDAE-01	144944	Data Acquisition Electronics	Schmid&Partner Engineering AG	DAE4	626	2019/10/15	12
SAR	KIU-08	145059	Power sensor	Rohde & Schwarz	NRV-Z4	100372	2019/09/09	12
SAR	KIU-09	145099	Power sensor	Rohde & Schwarz	NRV-Z4	100371	2019/09/09	12
SAR	KOS-13	144985	Digital thermometer	HANNA	Checktemp-2	KOS-13	2018/12/05	12
SAR	KOS-14	144986	Thermo-Hygrometer data logger	SATO KEIRYOKI	SK-L200THIIa/SK-LTHIIa-2	015246/08169	2018/12/05	12
SAR	KPA-12	145359	RF Power Amplifier	Milmega	AS2560-50	1018582	-	-
SAR	KPFL-01	145560	Flat Phantom	Schmid&Partner Engineering AG	Oval flat phantom ELI 4.0	1059	2019/08/28	12
SAR	KPM-05	144988	Power meter	AGILENT	E4417A	GB41290718	2019/04/12	12
SAR	KPM-06	144989	Power Meter	Rohde & Schwarz	NRVD	101599	2019/09/09	12
SAR	KPSS-01	144990	Power sensor	AGILENT	E9327A	US40440544	2019/04/12	12
SAR	KRU-01	144993	Ruler(300mm)	SHINWA	I3134	-	2019/02/18	12
SAR	KRU-04	145086	Ruler(300mm)	SHINWA	I3134	-	2019/05/21	12
SAR	KRU-05	145087	Ruler(100x50mm.L)	SHINWA	I2101	-	2019/05/21	12
SAR	KSDA-01	145090	Dipole Antenna	Schmid&Partner Engineering AG	D2450V2	822	2019/01/18	12
SAR	KSDA-02	145091	Dipole Antenna	Schmid&Partner Engineering AG	D5GHzV2	1070	2019/03/18	12
SAR	KSDH-01	145596	Device holder	Schmid&Partner Engineering AG	Mounting device for transmitter	-	2019/09/26	12
SAR	KSG-08	145109	Signal Generator	Rohde & Schwarz	SMT06	100763	2019/09/09	12
SAR	KSLM245-01	145365	Tissue simulation liquid (2450MHz body)	Schmid&Partner Engineering AG	MSL2450V2	SL AAM 245 BA	-	-
SAR	KSLM580-02	145366	Tissue simulation liquid (5800MHz body)	Schmid&Partner Engineering AG	MBBL3500-5800V5	SL AAM 501 AB(110520-3)	-	-
SAR	SALC-01	146112	Primepure Ethanol	Kanto Chemical Co., Inc.	14032-79	-	-	-
SAR	SAT20-SAR1	145149	Attenuator	TME	SFA-01AXPJ-20	-	2018/12/12	12
SAR	SAT6-SAR1	145160	Attenuator	Huber+Suhner	6806.17.A	766429-1	2018/12/12	12
SAR	SCC-SAR2	145405	Coaxial Cable	Huber+Suhner	SF104A/11PC3542/11N451/4M	MY699/4A	-	-
SAR	SEPP-02	145500	Dielectric probe	Schmid&Partner Engineering AG	DAK3.5	1129	2019/08/06	12
SAR	SOS-12	146320	Digital thermometer	HANNA	Checktemp-4	SOS-12	2019/01/11	12
SAR	SOS-SAR1	146323	Digital thermometer	LKMelectronic	DTM3000	3171	2019/10/08	12
SAR	SPB-02	146235	Dosimetric E-Field Probe	Schmid&Partner Engineering AG	EX3DV4	3907	2019/06/19	12
SAR	SRU-06	150560	Measuring Tool, Ruler	SHINWA	14001	-	2019/02/18	12
SAR	SSA-04	146176	Spectrum Analyzer	ADVANTEST	R3272	101100994	-	-
SAR	SSAR-02	146177	SAR measurement system	Schmid&Partner Engineering AG	DASY5	1324	-	-
SAR	SSNA-01	146258	Network Analyzer	AGILENT	8753ES	US39171777	2018/12/17	12
SAR	SSRBT-02	145621	SAR robot	Schmid&Partner Engineering AG	TX60 Lspeag	F12/SL2QA1/A/01	2019/09/26	12
SAR	SWTR-03	146185	DI water	MonotaRo	34557433	-	-	-

*. AT (antenna terminal conducted power measurement) was measured October 9, 2019. (Refer to Section 6 in this report.)

The expiration date of calibration is the end of the expired month.

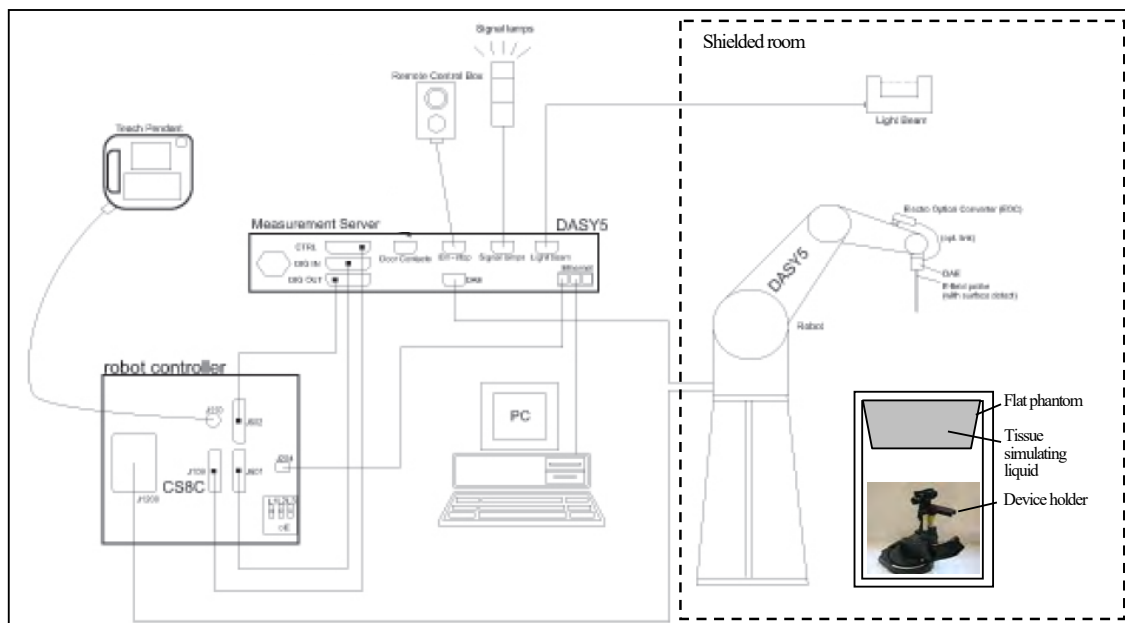
As for some calibrations performed after the tested dates, those test equipments have been controlled by means of an unbroken chains of calibrations.

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 EUT. (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 Lsepag robot/CS8Csepag-TX60 robot controller**

- Number of Axes : 6
- Repeatability : ± 0.02 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 μ V to > 200 mV (16bit resolution and 2 range settings: 4 mV, 400 mV)
- Input Offset voltage : < 1 μ V (with auto zero)
- Input Resistance : 200 M Ω
- Battery Power : > 10 hrs. of operation (with two 9 V 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 : Refer to Appendix 3-1 (Equipment used)
- Manufacture : Schmid & Partner Engineering AG

E-Field Probe

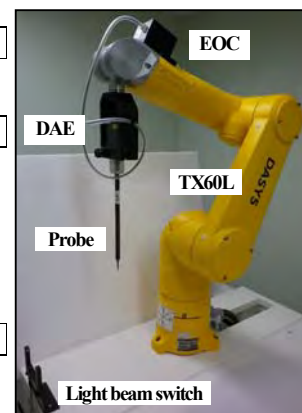
- Model : EX3DV4 (serial number: 3907)
- Construction : Symmetrical design with triangular core.
Built-in shielding against static charges.
PEEK enclosure material (resistant to organic solvents, e.g., DGBE).
- Frequency : 10MHz to 6GHz, Linearity: ± 0.2 dB (30MHz to 6GHz)
- Conversion Factors : (2.45, 5.2, 5.25, 5.5, 5.6, 5.75, 5.8) GHz (Head) (*.Use (5.2, 5.5) GHz for the daily check)
(2.45, 5.25, 5.6, 5.75) GHz (Body)
- Directivity : ± 0.3 dB in HSL (rotation around probe axis)
 ± 0.5 dB in tissue material (rotation normal to probe axis)
- Dynamic Range : 10 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
- Dimension : Overall length: 330 mm (Tip: 20 mm)
Tip diameter: 2.5 mm (Body: 12 mm)
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 ± 0.2 mm
- Dimensions : Bottom elliptical: 600 $\times$ 400 mm, Depth: 190 mm (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 : Polyoxymethylene (POM)
 - Manufacture : Schmid & Partner Engineering AG
- ☐ SSDH-02: A simple but effective and easy-to-use extension for the Mounting Device; facilitates testing of larger devices (e.g., laptops, cameras, etc.) according to IEC 62209-2.
 - Material : Polyoxymethylene (POM), PET-G, Foam
 - Manufacture : Schmid & Partner Engineering AG



Appendix 3-4: Simulated tissue composition and parameter confirmation

Liquid type	Body	Body
Control No.	KSLM245-01	KSLM580-02
Model No. / Product No.	MSL2450V2 / SL AAM245 BA	MBBL3500-5800V5 / SL AAM 501 AB
Ingredient: Mixture [%]	Water: 52~75, DGBE: 25~48, NaCl: <1.0	Water: 60~80, Ester/Emulsifiers/Inhibitors: 20~40, Sodium salt: 0~1.5
Temperature gradients [% / deg.C]	permittivity: +0.16 / conductivity: -2.58 (at 2.5 GHz) (*1)	permittivity: -0.08 / conductivity: -1.67 (at 5.5 GHz) (*2)
Manufacture	Schmid & Partner Engineering AG	Note: *1. Temperature Gradient tsl2450v2&tsl5000 16.01.2011, *2. speag 920-SLAxyy-E 01.12.15CL

*. The dielectric parameters were checked prior to assessment using the DAK3.5 dielectric probe kit.

Measured date	Frequency [MHz]	Liquid type	Ambient [deg.C] [%RH]	Liquid temp. [deg.C]	Liquid Depth [mm]	Liquid parameters (*a)								ΔSAR	
						Permittivity (ε _r) [-]				Conductivity [S/m]				(1g) [%] (*b)	(10g) [%] (*b)
						Target	Measured		Limit	Target	Measured		Limit		
							Meas.	Δε _r [%]			Meas.	Δσ[%]			
November 11, 2019	5600	Body	24/(45~55)	22.9	(150)	48.47	46.26	-4.6	±5%	5.766	5.940	+3.0	±5%	+0.78	+1.04
November 11, 2019	5750	Body	24/(45~55)	22.9	(150)	48.27	45.99	-4.7	±5%	5.942	6.153	+3.6	±5%	+0.78	+1.09
November 12, 2019	5250	Body	24/(45~55)	22.9	(150)	48.95	46.80	-4.4	±5%	5.358	5.481	+2.3	±5%	+0.81	+1.01
November 19, 2019	2450	Body	24/(40~50)	22.9	(150)	52.7	50.55	-4.1	±5%	1.95	1.984	+1.7	±5%	+1.74	+1.09

*a. The target values of (2000, 2450, 3000 and 5800) MHz are parameters defined in Appendix A of KDB 865664 D01. For other frequencies, the target nominal dielectric values shall be obtained by linear interpolation between the higher and lower tabulated figures.

Standard										Interpolated & Extrapolated									
f (MHz)	Head Tissue		Body Tissue		f	Head Tissue		Body Tissue		f	Head Tissue		Body Tissue		f	Head Tissue		Body Tissue	
	ε _r	σ [S/m]	ε _r	σ [S/m]		(MHz)	ε _r	σ [S/m]	ε _r		σ [S/m]	(MHz)	ε _r	σ [S/m]		ε _r	σ [S/m]	(MHz)	ε _r
(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	35.36	5.219	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.

$$\text{ASAR}(1g) = C_{\text{er}} \times \Delta \text{er} + C_{\sigma} \times \Delta \sigma, C_{\text{er}} = -7.854E-4 \times f^3 + 9.402E-3 \times f^2 - 2.742E-2 \times f + 0.2026 / C_{\sigma} = 9.804E-3 \times f^3 - 8.661E-2 \times f^2 + 2.981E-2 \times f + 0.7829$$

$$\text{ASAR}(10g) = C_{\text{er}} \times \Delta \text{er} + C_{\sigma} \times \Delta \sigma, C_{\text{er}} = -3.456 \times 10^{-3} \times f^3 - 3.531 \times 10^{-2} \times f^2 + 7.675 \times 10^{-2} \times f + 0.1860 / C_{\sigma} = -4.479 \times 10^{-3} \times f^3 - 1.586 \times 10^{-2} \times f^2 - 0.1972 \times f + 0.7717$$

Appendix 3-5: Daily check results

*. Prior to the SAR assessment of EUT, 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.

Date	Frequency [MHz]	Liquid Type	Daily check results (*: Meas.: Measured, Cal.: Calibration value, STD: Standard value)																	
			SAR (1g) [W/kg] (*d)								SAR (10g) [W/kg] (*d)									
			Meas. (*c)	ASAR-correct	1W scaled	Target		Deviation		Limit [%]	Pass ?	Meas. (*c)	ASAR-correct	1W scaled	Target		Deviation		Limit [%]	Pass ?
						Cal. (*e)	STD (*f)	Cal. [%]	STD [%]						Cal. (*e)	STD (*f)	Cal. [%]	STD [%]		
November 11, 2019	5600	Body	7.84	7.78	77.8	80.6	n/a	-3.5	n/a	±10	Pass	2.24	2.22	22.2	22.5	n/a	-1.3	n/a	±10	Pass
November 11, 2019	5750	Body	7.62	7.56	75.6	76.1	n/a	-0.7	n/a	±10	Pass	2.17	2.15	21.5	21.1	n/a	+1.9	n/a	±10	Pass
November 12, 2019	5250	Body	7.63	7.57	75.7	75.4	n/a	+0.4	n/a	±10	Pass	2.19	2.17	21.7	21.0	n/a	+3.3	n/a	±10	Pass
November 19, 2019	2450	Body	12.4	12.18	48.72	50.7	n/a	-3.9	n/a	±10	Pass	5.87	5.81	23.24	23.7	n/a	-1.9	n/a	±10	Pass

*. Calculating formula:

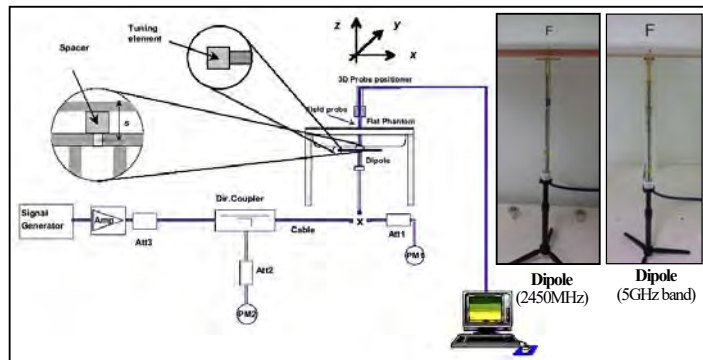
$$\text{ASAR corrected SAR (1g, 10g) (W/kg)} = (\text{Measured SAR (1g, 10g) (W/kg)}) \times (100 - (\text{ASAR}(\%) / 100)$$

*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 (ΔSAR) 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:822) and D5GHzV2 (sn:1070) dipole calibrated by Schmid & Partner Engineering AG (Certification No. D2450V2-822 Jan19 / D5GHzV2-1070 Mar19, the data sheet was filed in this report).

*f. The target value (normalized to 1W) is defined in IEEE Std.1528.

Test setup for the system performance check

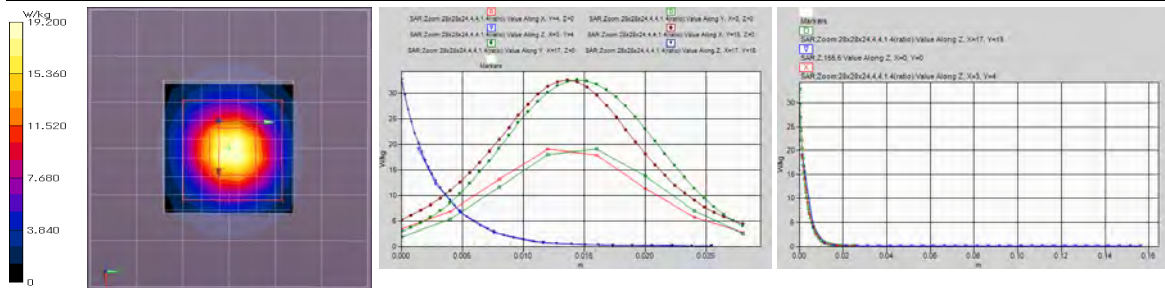
Appendix 3-6: Daily check measurement data

(November 11, 2019) EUT: Dipole(5GHz)(1070); Type: D5GHzV2; Serial: 1070; Forward conducted power: 100mW
Communication System: CW (*, UID:0; CW; JFrame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5600 MHz; Crest Factor: 1.0**
Medium: MSL5800(1911); Medium parameters used: $f = 5600$ MHz; $\sigma = 5.94$ S/m; $\epsilon_r = 46.26$; $\rho = 1000$ kg/m³
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 /-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section
 -DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) /-Probe: EX3DV4 - SN3907; ConvF(3.83, 3.83, 3.83) @ 5600 MHz; Calibrated: 2019/06/19
 -Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0, 156.0$

Area:60x60,10 (7x7x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 20.6 W/kg
Area:60x60,10 (61x61x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 20.6 W/kg
Z;155.5 (1x1x32): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm; Maximum value of SAR (measured) = 19.0 W/kg

Zoom:28x28x24,4,1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;
 Reference Value = 67.52 V/m; Power Drift = -0.06 dB; Maximum value of SAR (measured) = 19.2 W/kg; Peak SAR (extrapolated) = 32.7 W/kg
SAR(1 g) = 7.84 W/kg; SAR(10 g) = 2.24 W/kg



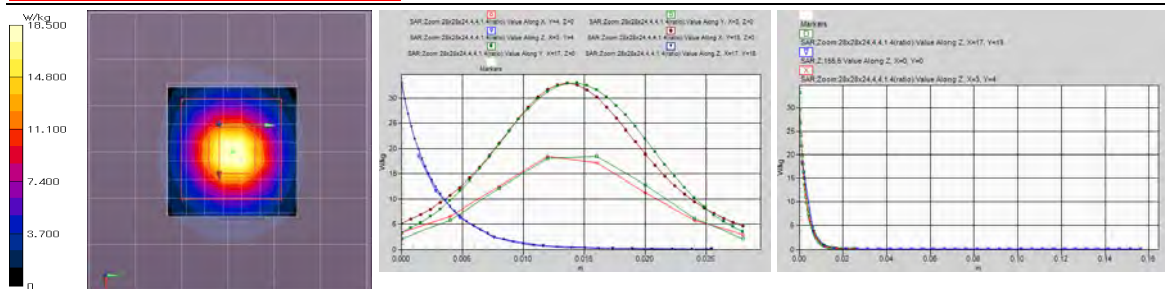
Remarks: * Date tested: 2019/11/11; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: (24~25) deg.C. / (45~55) %RH,
 * liquid temperature: 22.8(start)/22.7(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

(November 11, 2019) EUT: Dipole(5GHz)(1070); Type: D5GHzV2; Serial: 1070; Forward conducted power: 100mW
Communication System: CW (*, UID:0; CW; JFrame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5750 MHz; Crest Factor: 1.0**
Medium: MSL5800(1911); Medium parameters used: $f = 5750$ MHz; $\sigma = 6.153$ S/m; $\epsilon_r = 45.99$; $\rho = 1000$ kg/m³
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 /-Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section
 -DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) /-Probe: EX3DV4 - SN3907; ConvF(4.01, 4.01, 4.01) @ 5750 MHz; Calibrated: 2019/06/19
 -Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0, 156.0$

Area:60x60,10 (7x7x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 19.4 W/kg
Area:60x60,10 (61x61x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 19.6 W/kg
Z;155.5 (1x1x32): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm; Maximum value of SAR (measured) = 18.5 W/kg

Zoom:28x28x24,4,1.4(ratio) (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm;
 Reference Value = 64.08 V/m; Power Drift = 0.04 dB; Maximum value of SAR (measured) = 18.5 W/kg; Peak SAR (extrapolated) = 33.1 W/kg
SAR(1 g) = 7.62 W/kg; SAR(10 g) = 2.17 W/kg

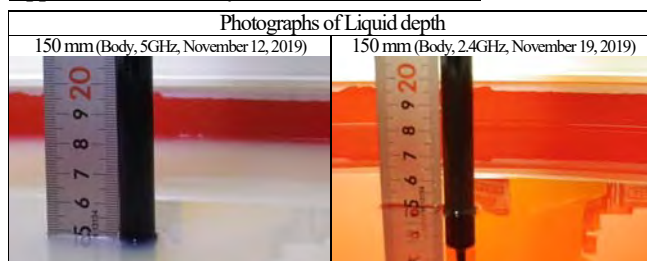


Remarks: * Date tested: 2019/11/11; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: (24~25) deg.C. / (45~55) %RH,
 * liquid temperature: 22.8(start)/22.9(end)/22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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Appendix 3-6: Daily check measurement data

(November 12, 2019) EUT: **Dipole(5GHz)(1070)**; Type: **D5GHzV2**; Serial: **1070**; Forward conducted power: **100mW**
Communication System: CW (* UID:0; CW;)Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: **5250 MHz**; Crest Factor: **1.0**
Medium: MSL5800(1911); Medium parameters used: $f = 5250$ MHz; $\sigma = 5.481$ S/m; $\epsilon_r = 46.80$; $\rho = 1000$ kg/m³
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section
 -DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(4.42, 4.42, 4.42) @ 5250 MHz; Calibrated: 2019/06/19
 -Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0, 156.0$

Area:60x60,10 (7x7x1): Measurement grid: $dx=10$ mm, $dy=10$ mm; Maximum value of SAR (measured) = 18.5 W/kg

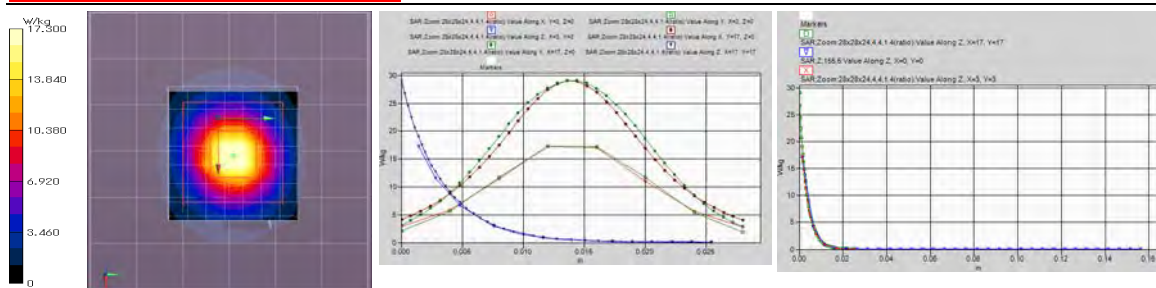
Area:60x60,10 (61x61x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm; Maximum value of SAR (interpolated) = 18.8 W/kg

Z:155,5 (1x1x32): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm; Maximum value of SAR (measured) = 17.0 W/kg

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

Reference Value = 66.60 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 17.3 W/kg; Peak SAR (extrapolated) = 29.0 W/kg

SAR(1 g) = 7.63 W/kg; SAR(10 g) = 2.19 W/kg



Remarks: * Date tested: 2019/11/12; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: (24-25) deg.C. / (45-55) %RH,
 * liquid temperature: 22.7(start)22.8(end)22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

(November 19, 2019) EUT: **Dipole(2.45GHz)**; Type: **D2450V2**; Serial: **822**; Forward conducted power: **250mW**
Communication System: CW (* UID:0; CW;)Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: **2450 MHz**; Crest Factor: **1.0**
Medium: M2450(1911); Medium parameters used: $f = 2450$ MHz; $\sigma = 1.984$ S/m; $\epsilon_r = 50.55$; $\rho = 1000$ kg/m³
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2019/10/15 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section
 -DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450) / -Probe: EX3DV4 - SN3907; ConvF(7.37, 7.37, 7.37) @ 2450 MHz; Calibrated: 2019/06/19
 -Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0, 161.0$

Area:60x60,15 (5x5x1): Measurement grid: $dx=15$ mm, $dy=15$ mm; Maximum value of SAR (measured) = 18.7 W/kg

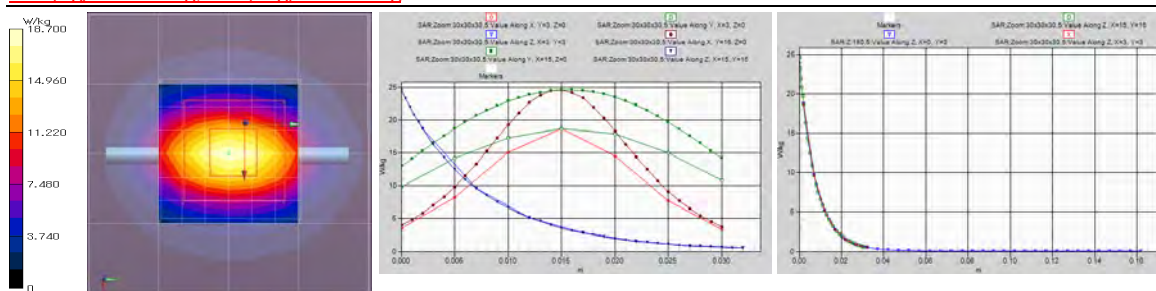
Area:60x60,15 (41x41x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm; Maximum value of SAR (interpolated) = 18.7 W/kg

Z:160,5 (1x1x33): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm; Maximum value of SAR (measured) = 18.8 W/kg

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

Reference Value = 98.78 V/m; Power Drift = 0.03 dB; Maximum value of SAR (measured) = 18.7 W/kg; Peak SAR (extrapolated) = 24.6 W/kg

SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.87 W/kg



Remarks: * Date tested: 2019/11/19; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,
 * liquid depth: 150 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 23 deg.C. / (45-55) %RH,
 * liquid temperature: 22.7(start)22.5(end)22.9(in check) deg.C.; * White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

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