
Appendix B. Highest Measurement Data

Test Laboratory: DEKRA

Date: 2024/04/21

22_WLAN2.4GHz_802.11b-1M_CH11_Right-side_0mm_ANT Main**DUT: 12 Inch Rugged Tablet; Type: ALGIZ 12XR**

Communication System: UID 0, WLAN 2.4G; Frequency: 2462 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.8$ S/m; $\epsilon_r = 39.16$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(8.22, 8.22, 8.22) @ 2462 MHz; Calibrated: 2024/02/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2024/02/15
- Phantom: ELI V8.0; Type: QD OVA 004 AA; Serial: 2139
- Measurement SW: DASYS2, Version 52.10 (4);

Configuration/Flat/Area Scan (6x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.35 W/kg**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.904 V/m; Power Drift = -0.13 dB

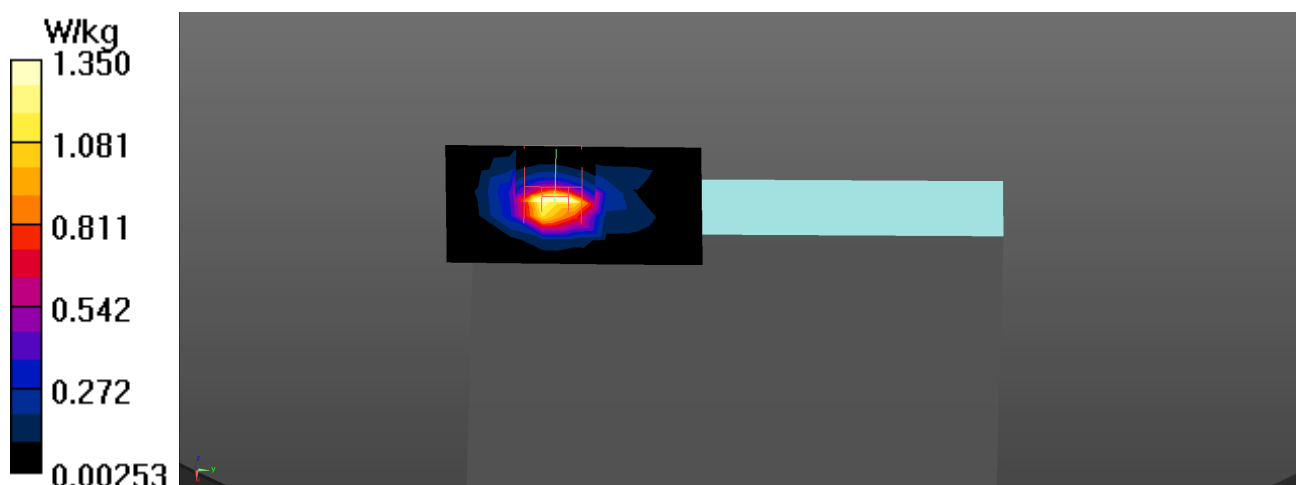
Peak SAR (extrapolated) = 2.58 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.476 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 47.1%

Maximum value of SAR (measured) = 2.04 W/kg



Test Laboratory: DEKRA

Date: 2024/04/21

12_Bluetooth_BT-1M_CH39_Right-side_0mm_ANT Aux**DUT: 12 Inch Rugged Tablet; Type: ALGIZ 12XR**

Communication System: UID 0, BT 1M&3M&BLE; Frequency: 2441 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.77$ S/m; $\epsilon_r = 39.24$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(8.22, 8.22, 8.22) @ 2441 MHz; Calibrated: 2024/02/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2024/02/15
- Phantom: ELI V8.0; Type: QD OVA 004 AA; Serial: 2139
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/Flat/Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0233 W/kg**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.544 V/m; Power Drift = 0.01 dB

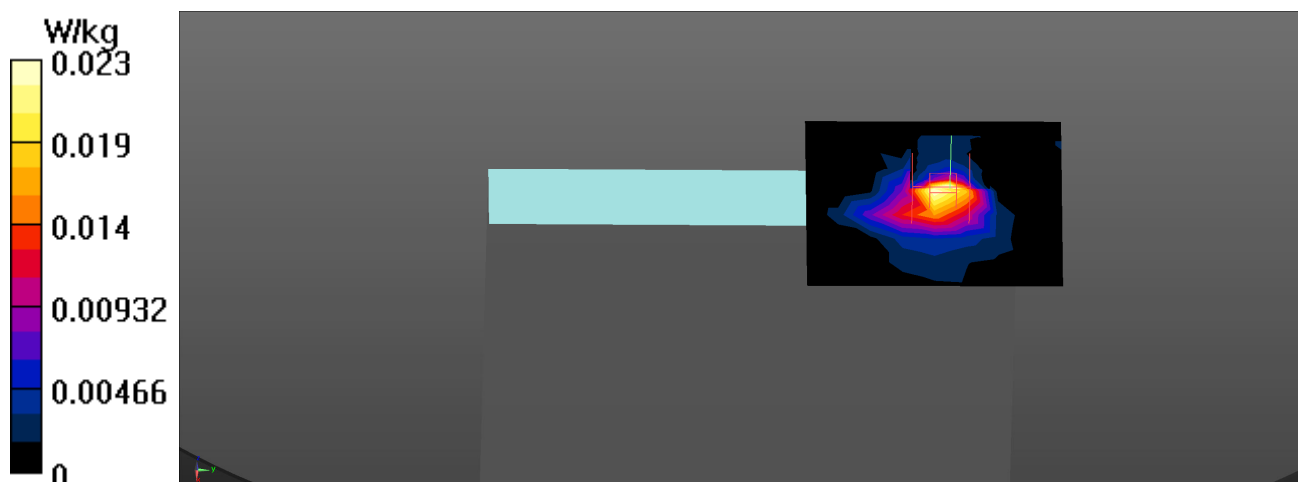
Peak SAR (extrapolated) = 0.0390 W/kg

SAR(1 g) = 0.016 W/kg; SAR(10 g) = 0.00699 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)

Ratio of SAR at M2 to SAR at M1 = 39.8%

Maximum value of SAR (measured) = 0.0288 W/kg



Test Laboratory: DEKRA

Date: 2024/04/20

20_WLAN5GHz_802.11ac80-VHT0_CH58_Right-side_0mm_ANT Aux**DUT: 12 Inch Rugged Tablet; Type: ALGIZ 12XR**

Communication System: UID 0, WLAN 5G; Frequency: 5290 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.83$ S/m; $\epsilon_r = 36.32$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(5.79, 5.79, 5.79) @ 5290 MHz; Calibrated: 2024/02/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2024/02/15
- Phantom: ELI V8.0; Type: QD OVA 004 AA; Serial: 2139
- Measurement SW: DASYS2, Version 52.10 (4);

Configuration/Flat/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.580 W/kg**Configuration/Flat/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 13.62 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.309 W/kg; SAR(10 g) = 0.094 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 66%

Maximum value of SAR (measured) = 0.736 W/kg



Test Laboratory: DEKRA

Date: 2024/04/20

5_WLAN5GHz_802.11ac80-VHT0_CH138_Right-side_0mm_ANT Aux**DUT: 12 Inch Rugged Tablet; Type: ALGIZ 12XR**

Communication System: UID 0, WLAN 5G; Frequency: 5690 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 5690$ MHz; $\sigma = 5.36$ S/m; $\epsilon_r = 35.22$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(5.03, 5.03, 5.03) @ 5690 MHz; Calibrated: 2024/02/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2024/02/15
- Phantom: ELI V8.0; Type: QD OVA 004 AA; Serial: 2139
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/Flat/Area Scan (7x10x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.13 W/kg**Configuration/Flat/Zoom Scan (9x9x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 24.18 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 4.27 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.313 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 62%

Maximum value of SAR (measured) = 2.55 W/kg



Test Laboratory: DEKRA

Date: 2024/04/20

6_WLAN5GHz_802.11ac80-VHT0_CH155_Right-side_0mm_ANT Aux**DUT: 12 Inch Rugged Tablet; Type: ALGIZ 12XR**

Communication System: UID 0, WLAN 5G; Frequency: 5775 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.48$ S/m; $\epsilon_r = 34.98$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(5.14, 5.14, 5.14) @ 5775 MHz; Calibrated: 2024/02/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2024/02/15
- Phantom: ELI V8.0; Type: QD OVA 004 AA; Serial: 2139
- Measurement SW: DASYS2, Version 52.10 (4);

Configuration/Flat/Area Scan (7x10x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.68 W/kg**Configuration/Flat/Zoom Scan (9x9x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 20.62 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 3.50 W/kg

SAR(1 g) = 0.782 W/kg; SAR(10 g) = 0.242 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 60.5%

Maximum value of SAR (measured) = 1.98 W/kg



SAR measurement variability

Test Laboratory: DEKRA

Date: 2024/04/21

14_WLAN2.4GHz_802.11b-1M_CH11_Right-side_0mm_ANT Main-Verify**DUT: 12 Inch Rugged Tablet; Type: ALGIZ 12XR**

Communication System: UID 0, WLAN 2.4G; Frequency: 2462 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.8$ S/m; $\epsilon_r = 39.16$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(8.22, 8.22, 8.22) @ 2462 MHz; Calibrated: 2024/02/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2024/02/15
- Phantom: ELI V8.0; Type: QD OVA 004 AA; Serial: 2139
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/Flat/Area Scan (6x9x1): Measurement grid: $dx=12$ mm, $dy=12$ mm
Maximum value of SAR (measured) = 1.65 W/kg**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 7.436 V/m; Power Drift = 0.12 dB

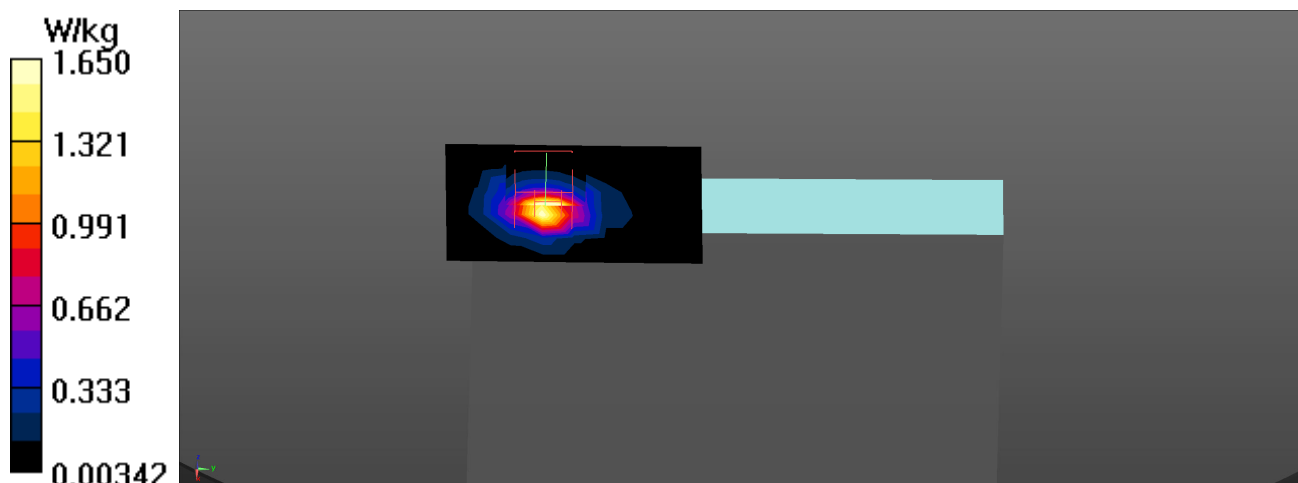
Peak SAR (extrapolated) = 2.51 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.469 W/kg

Smallest distance from peaks to all points 3 dB below = 8.1 mm

Ratio of SAR at M2 to SAR at M1 = 47.4%

Maximum value of SAR (measured) = 1.98 W/kg



Test Laboratory: DEKRA

Date: 2024/04/20

33_WLAN5GHz_802.11ac80-VHT0_CH138_Right-side_0mm_ANT Aux-Verifty**DUT: 12 Inch Rugged Tablet; Type: ALGIZ 12XR**

Communication System: UID 0, WLAN 5G; Frequency: 5690 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 5690$ MHz; $\sigma = 5.36$ S/m; $\epsilon_r = 35.22$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(5.03, 5.03, 5.03) @ 5690 MHz; Calibrated: 2024/02/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2024/02/15
- Phantom: ELI V8.0; Type: QD OVA 004 AA; Serial: 2139
- Measurement SW: DASYS2, Version 52.10 (4);

Configuration/Flat/Area Scan (7x10x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.73 W/kg**Configuration/Flat/Zoom Scan (9x9x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 23.75 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 3.86 W/kg

SAR(1 g) = 0.996 W/kg; SAR(10 g) = 0.308 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 63.3%

Maximum value of SAR (measured) = 2.46 W/kg

