

**APPENDIX A: SAR TEST PLOTS**

# ELEMENT

**DUT: BCG-A2723; Type: Watch; Serial: W9DY5QK9K1**

Communication System: UID:10415 - AAA, WLAN; MAIA: Y; Frequency: 2412.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2412.0$  MHz;  $\text{cond} = 1.74$  S/m;  $\text{perm} = 39.9$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10.00 mm

Test Date: 06/02/2022; Ambient Temp: 24.2°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN3837; ConvF:(7.21,7.21,7.21); Calibrated: 2022-01-19

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn793; Calibrated: 2022-01-13

Phantom: Twin-SAM V8.0; Serial: 2034

Measurement SW: DASY Module SAR V16.0.2.136

**Mode: IEEE 802.11b, Head SAR, Front side, 22 MHz Bandwidth, Ch. 1, 1 Mbps,  
Aluminum, Sport Wristband**

**Area Scan (80.0 x 80.0):** Measurement grid:  $dx=10.0$  mm,  $dy=10.0$  mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid:  $dx=5.0$  mm,  $dy=5.0$  mm,  $dz=1.5$  mm; Graded Ratio: 1.5

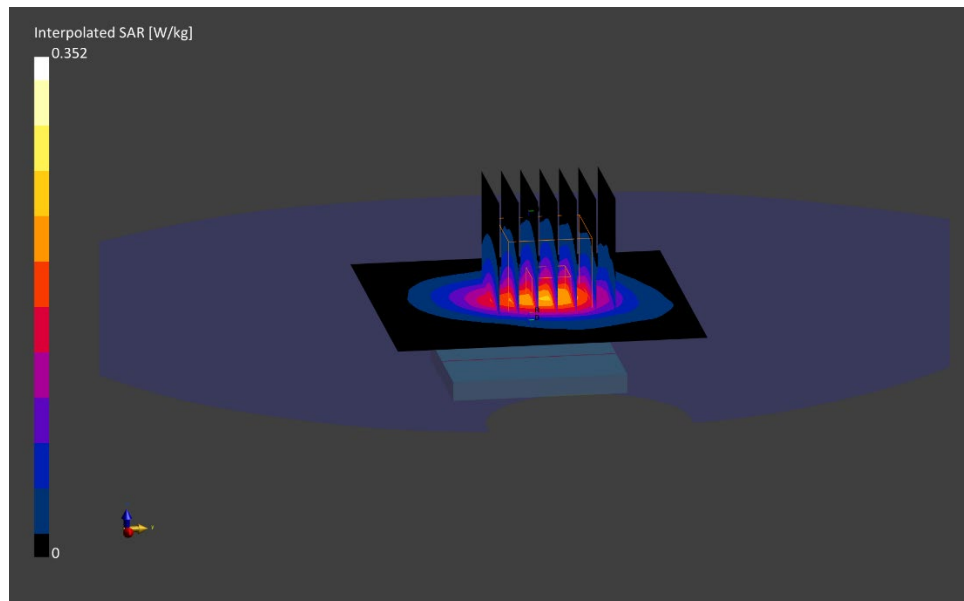
Reference Value = 0.20 W/kg; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.352 W/kg

**SAR(1 g) = 0.202 W/kg**

Smallest distance from peaks to all points 3 dB below is 13.6 mm

Ratio of SAR at M2 to SAR at M1 = 82.6 %



# ELEMENT

**DUT: BCG-A2723; Type: Watch; Serial: W9DY5QK9K1**

Communication System: UID:10032 - CAA, Bluetooth; MAIA: Y; Frequency: 2402.0 MHz  
Medium: 2450 Head; Medium parameters used:  
 $f = 2402.0$  MHz;  $\text{cond} = 1.79$  S/m;  $\text{perm} = 40.3$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10.00 mm

Test Date: 06/06/2022; Ambient Temp: 22.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7308; ConvF:(7.94,7.94,7.94); Calibrated: 2022-02-21  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn467; Calibrated: 2022-02-24  
Phantom: Twin-SAM V8.0; Serial: 2029  
Measurement SW: DASY Module SAR V16.0.2.136

**Mode: Bluetooth, Head SAR, Ch.0, 1Mbps, Front Side,  
Aluminum, Sport Wristband**

**Area Scan (80.0 x 80.0):** Measurement grid:  $dx=10.0$  mm,  $dy=10.0$  mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid:  $dx=5.0$  mm,  $dy=5.0$  mm,  $dz=1.5$  mm; Graded Ratio: 1.5

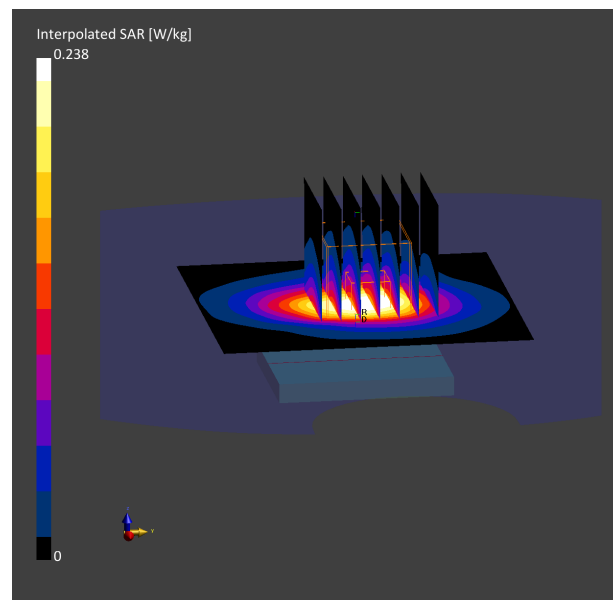
Reference Value = 0.15 W/kg; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.238 W/kg

**SAR(1 g) = 0.136 W/kg**

Smallest distance from peaks to all points 3 dB below is 15.5 mm

Ratio of SAR at M2 to SAR at M1 = 82.5 %



# ELEMENT

**DUT: BCG-A2723; Type: Watch; Serial: W9DY5QK9K1**

Communication System: UID:10415 - AAA, WLAN; MAIA: Y; Frequency: 2412.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2412.0$  MHz;  $\text{cond} = 1.76$  S/m;  $\text{perm} = 40.6$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/06/2022; Ambient Temp: 21.5°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN3837; ConvF:(7.21,7.21,7.21); Calibrated: 2022-01-19

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn793; Calibrated: 2022-01-13

Phantom: Twin-SAM V8.0; Serial: 2034

Measurement SW: DASY Module SAR V16.0.2.136

**Mode: IEEE 802.11b, Extremity SAR, Back side, 22 MHz Bandwidth, Ch. 1, 1 Mbps,  
Aluminum, Metal Loop Wristband**

**Area Scan (80.0 x 80.0):** Measurement grid:  $dx=10.0$  mm,  $dy=10.0$  mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid:  $dx=3.6$  mm,  $dy=3.6$  mm,  $dz=1.4$  mm; Graded Ratio: 1.4

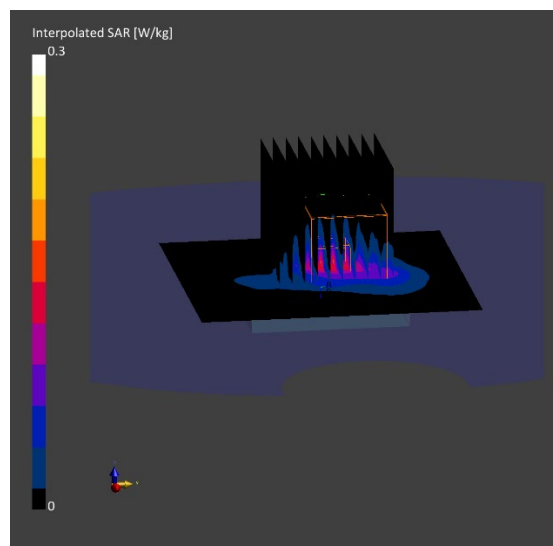
Reference Value = 0.13 W/kg; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.300 W/kg

**SAR(10 g) = 0.047 W/kg**

Smallest distance from peaks to all points 3 dB below is 5.0 mm

Ratio of SAR at M2 to SAR at M1 = 76.3 %



# ELEMENT

**DUT: BCG-A2723; Type: Watch; Serial: W9DY5QK9K1**

Communication System: UID:10032 - CAA, Bluetooth; MAIA: Y; Frequency: 2402.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2402.0$  MHz;  $\text{cond} = 1.79$  S/m;  $\text{perm} = 40.3$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/06/2022; Ambient Temp: 22.0°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7308; ConvF:(7.94,7.94,7.94); Calibrated: 2022-02-21

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn467; Calibrated: 2022-02-24

Phantom: Twin-SAM V8.0; Serial: 2029

Measurement SW: DASY Module SAR V16.0.2.136

**Mode: Bluetooth, Extremity SAR, Ch.0, 1 Mbps, Back Side,  
Aluminum, Metal Loop Wristband**

**Area Scan (80.0 x 80.0):** Measurement grid:  $dx=10.0$  mm,  $dy=10.0$  mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid:  $dx=4.2$  mm,  $dy=4.2$  mm,  $dz=1.4$  mm; Graded Ratio: 1.4

Reference Value = 0.15 W/kg; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.265 W/kg

**SAR(10 g) = 0.041 W/kg**

Smallest distance from peaks to all points 3 dB below is 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 78.1 %

