



CERTIFICATE 2518.05

## DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2

**Motorola Solutions Inc.**  
**EME Test Laboratory**  
 Motorola Solutions Malaysia Sdn Bhd  
 Plot 2A, Medan Bayan Lepas,  
 Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.

**Date of Report:** 10/26/2023  
**Report Revision:** C

**Responsible Engineer:** Puteri Alifah Ilyana Binti Nor Rahim (EME Engineer)  
**Report Author:** Muhammad Zakwan Bin Zaidi (EME Senior Technician)  
**Date/s Tested:** 08/04/2023-09/04/2023  
**Manufacturer:** Motorola Solutions Inc.  
**DUT Description:** Handheld Portable – SL300 136-174M 2-3W DISPLAY  
**Test TX mode(s):** CW (PTT)  
**Max. Power output:** Refer table 3 (part 1 of 2)  
**Nominal Power:** Refer table 3 (part 1 of 2)  
**Tx Frequency Bands:** LMR 136-174MHz.  
**Signaling type:** FM / TDMA  
**Model(s) Tested:** AAH88JCP9JA2AN (PMUD3334C); IC Model: PMUD3334CAMNAA  
**Model(s) Certified:** AAH88JCP9JA2AN (PMUD3334C); IC Model: PMUD3334CAMNAA  
 AAH88JCC9JA2AN (PMUD3335C); IC Model: PMUD3335CAANAA  
**Serial Number(s):** 546TZP0250  
**Classification:** Occupational/Controlled Environment  
**Firmware Version:** D01.23.02.0018  
**Applicant Name:** Motorola Solutions Inc.  
**Applicant Address:** 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322  
**FCC ID:** AZ489FT3855  
 Add the following when applicable – This report contains results that are immaterial for FCC equipment approval, which are clearly identified.  
**FCC Test Firm Registration Number:** 823256  
**IC:** 109U-89FT3855  
 This report contains results that are immaterial for ISED equipment approval, which are clearly identified.  
**ISED Test Site registration:** 24843

Based on the information and the testing results provided herein, the undersigned certifies that when used as stated in the operating instructions supplied, said product complies with the national and international reference standards and guidelines listed in section 4.0 of this report (no deviation from standard methods). This report shall not be reproduced without written approval from an officially designated representative of the Motorola Solutions Inc EME Laboratory.

I attest to the accuracy of the data and assume full responsibility for the completeness of these measurements. This reporting format is consistent with the suggested guidelines of the TIA TSB-150 December 2004. The results and statements contained in this report pertain only to the device(s) evaluated.

**Saw Sun Hock (Approval Signatory)**  
**Approved Date:** 10/27/2023

## **Appendix D**

### **System Verification Check Scans**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/25/2023 10:49:05 AM

Robot#: DASY5-PG-1 | Run#: AR-SYSP-150H-230825-11  
 Dipole Model#: CLA150  
 Phantom#: ELI4 1022  
 Tissue Temp: 20.5 (C)  
 Serial#: 4016  
 Test Freq: 150.0000 (MHz)  
 Start Power: 1000 (mW)  
 Rotation (1D): 0.084 dB  
 Adjusted SAR (1W): 4.11 mW/g (1g)

**Comments:**

Communication System Band: CLA150, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used:  $f = 150$  MHz;  $\sigma = 0.73$  S/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 150 MHz, ConvF(13.52, 13.52, 13.52) @ 150 MHz

Electronics: DAE4 Sn850, Calibrated: 4/14/2022

**Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (81x81x1):**

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 79.38 V/m; Power Drift = 0.03 dB

**Fast SAR: SAR(1 g) = 3.91 W/kg; SAR(10 g) = 2.79 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 4.20 W/kg

**Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (7x7x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 79.38 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 6.17 W/kg

**SAR(1 g) = 4.11 W/kg; SAR(10 g) = 2.68 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 15.7 mm

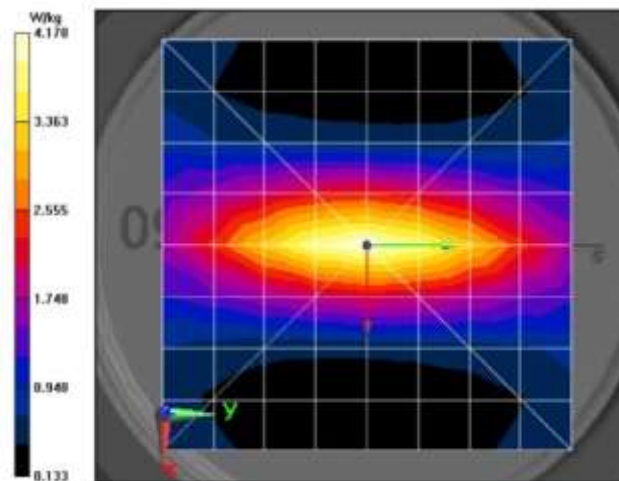
Ratio of SAR at M2 to SAR at M1 = 65.9%

Maximum value of SAR (measured) = 4.64 W/kg

**Below 2 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurement**

grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 4.49 W/kg



## **Appendix E**

### **DUT Scans**

## Highest Configuration at FCC Body - Table 19

## Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/12/2023 8:00:13 AM

Robot#: DASY5-PG-1 | Run#: AR-AB-230812-07@  
 Model#: AAH88JCP9JA2AN (PMUD3334C)  
 Phantom#: ELI4 1022  
 Tissue Temp: 20.7 (C)  
 Serial#: 546TZP0250  
 Antenna: PMAD4146B  
 Test Freq: 156.0125 (MHz)  
 Battery: PMNN4468B  
 Carry Acc: PMLN7190A  
 Audio Acc: PMMN4125B  
 Start Power: 2.35 (W)

## Comments:

Communication System Band: Tonga, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used:  $f = 156$  MHz;  $\sigma = 0.74$  S/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 156.012 MHz, ConvF(13.52, 13.52, 13.52) @ 156.012 MHz

Electronics: DAE4 Sn850, Calibrated: 4/14/2022

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 11.83 V/m; Power Drift = -0.09 dB

**Fast SAR: SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.097 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.156 W/kg

**Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.83 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.223 W/kg

**SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.068 W/kg** (SAR corrected for target medium)

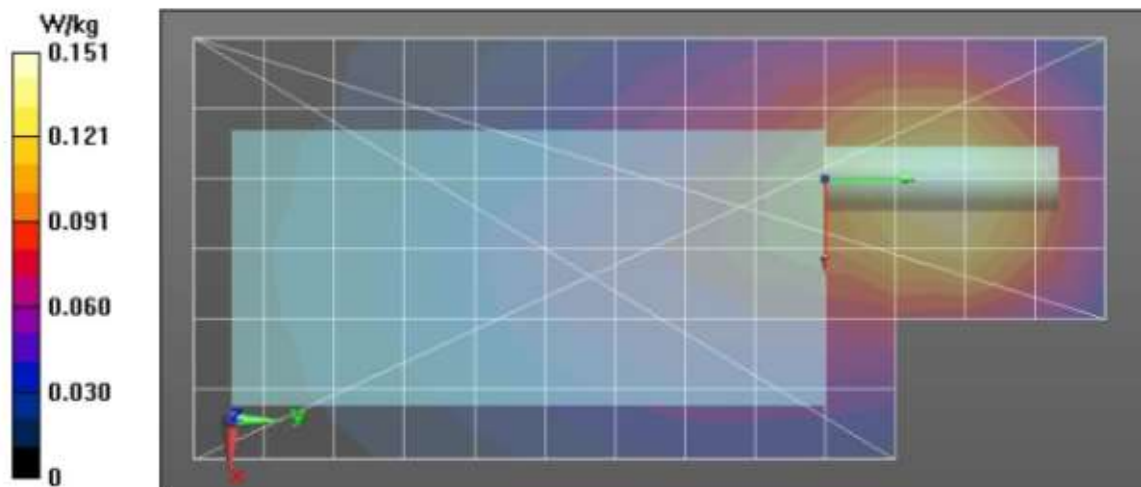
Smallest distance from peaks to all points 3 dB below = 22.8 mm

Ratio of SAR at M2 to SAR at M1 = 48.2%

Maximum value of SAR (measured) = 0.157 W/kg

**Below 2 GHz-Rev.3/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.159 W/kg



## Highest Configuration at FCC Face - Table 22

## Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/12/2023 3:09:10 PM

Robot#: DASY5-PG-1 | Run#: AR-FACE-230812-14@  
 Model#: AAH88JCP9JA2AN (PMUD3334C)  
 Phantom#: ELI4 1022  
 Tissue Temp: 20.8 (C)  
 Serial#: 546TZP0250  
 Antenna: PMAD4155A  
 Test Freq: 155.9875 (MHz)  
 Battery: PMNN4468B  
 Carry Acc: @ front  
 Audio Acc: N/A  
 Start Power: 2.34 (W)

## Comments:

Communication System Band: Tonga, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used:  $f = 156$  MHz;  $\sigma = 0.74$  S/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 155.988 MHz, ConvF(13.52, 13.52, 13.52) @ 155.988 MHz  
 Electronics: DAE4 Sn850, Calibrated: 4/14/2022

**Below 2 GHz-Rev.3/Face Scan/1-Area Scan (61x161x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 50.63 V/m; Power Drift = -0.41 dB

**Fast SAR: SAR(1 g) = 1.69 W/kg; SAR(10 g) = 1.3 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.95 W/kg

**Below 2 GHz-Rev.3/Face Scan/3-Zoom Scan (6x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 50.63 V/m; Power Drift = -0.51 dB

Peak SAR (extrapolated) = 2.24 W/kg

**SAR(1 g) = 1.48 W/kg; SAR(10 g) = 1.11 W/kg** (SAR corrected for target medium)

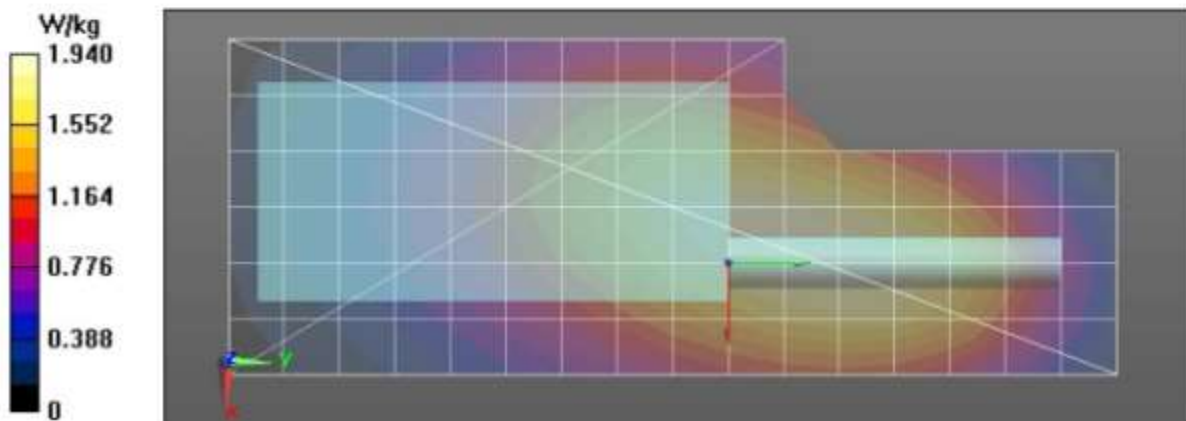
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 63.7%

Maximum value of SAR (measured) = 1.86 W/kg

**Below 2 GHz-Rev.3/Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.81 W/kg





## Highest Configuration at ISED Body- Table 25

## Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/12/2023 7:14:42 PM

Robot#: DASY5-PG-1 | Run#: BL-AB-230812-19@  
 Model#: AAH88JCP9JA2AN (PMUD3334C)  
 Phantom#: ELI4 1022  
 Tissue Temp: 20.7 (C)  
 Serial#: 546TZP0250  
 Antenna: PMAD4144B  
 Test Freq: 138.0000 (MHz)  
 Battery: PMNN4468B  
 Carry Acc: PMLN7190A  
 Audio Acc: PMMN4125B  
 Start Power: 2.38 (W)

## Comments:

Communication System Band: Tonga, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used:  $f = 138 \text{ MHz}$ ;  $\sigma = 0.73 \text{ S/m}$ ;  $\epsilon_r = 54$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 138 MHz, ConvF(13.52, 13.52, 13.52) @ 138 MHz

Electronics: DAE4 Sn850, Calibrated: 4/14/2022

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x141x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ 

Reference Value = 24.80 V/m; Power Drift = -0.60 dB

**Fast SAR: SAR(1 g) = 0.566 W/kg; SAR(10 g) = 0.422 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.660 W/kg

**Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 24.80 V/m; Power Drift = -0.63 dB

Peak SAR (extrapolated) = 0.855 W/kg

**SAR(1 g) = 0.423 W/kg; SAR(10 g) = 0.282 W/kg** (SAR corrected for target medium)

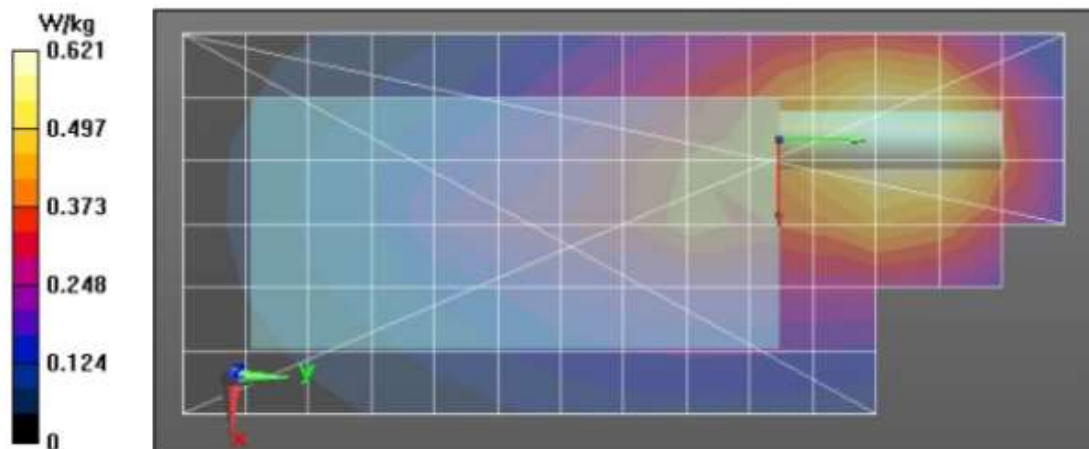
Smallest distance from peaks to all points 3 dB below = 26.7 mm

Ratio of SAR at M2 to SAR at M1 = 49%

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

**Below 2 GHz-Rev.3/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$ ,  $dz=10\text{mm}$ 

Maximum value of SAR (measured) = 0.631 W/kg



**Highest Configuration at ISED Face - Table 25****Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/12/2023 3:09:10 PM

Robot#: DASY5-PG-1 | Run#: AR-FACE-230812-14@  
 Model#: AAH88JCP9JA2AN (PMUD3334C)  
 Phantom#: ELI4 1022  
 Tissue Temp: 20.8 (C)  
 Serial#: 546TZP0250  
 Antenna: PMAD4155A  
 Test Freq: 155.9875 (MHz)  
 Battery: PMNN4468B  
 Carry Acc: @ front  
 Audio Acc: N/A  
 Start Power: 2.34 (W)

**Comments:**

Communication System Band: Tonga, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used:  $f = 156$  MHz;  $\sigma = 0.74$  S/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 155.988 MHz, ConvF(13.52, 13.52, 13.52) @ 155.988 MHz  
 Electronics: DAE4 Sn850, Calibrated: 4/14/2022

**Below 2 GHz-Rev.3/Face Scan/1-Area Scan (61x161x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 50.63 V/m; Power Drift = -0.41 dB

**Fast SAR: SAR(1 g) = 1.69 W/kg; SAR(10 g) = 1.3 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.95 W/kg

**Below 2 GHz-Rev.3/Face Scan/3-Zoom Scan (6x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 50.63 V/m; Power Drift = -0.51 dB

Peak SAR (extrapolated) = 2.24 W/kg

**SAR(1 g) = 1.48 W/kg; SAR(10 g) = 1.11 W/kg** (SAR corrected for target medium)

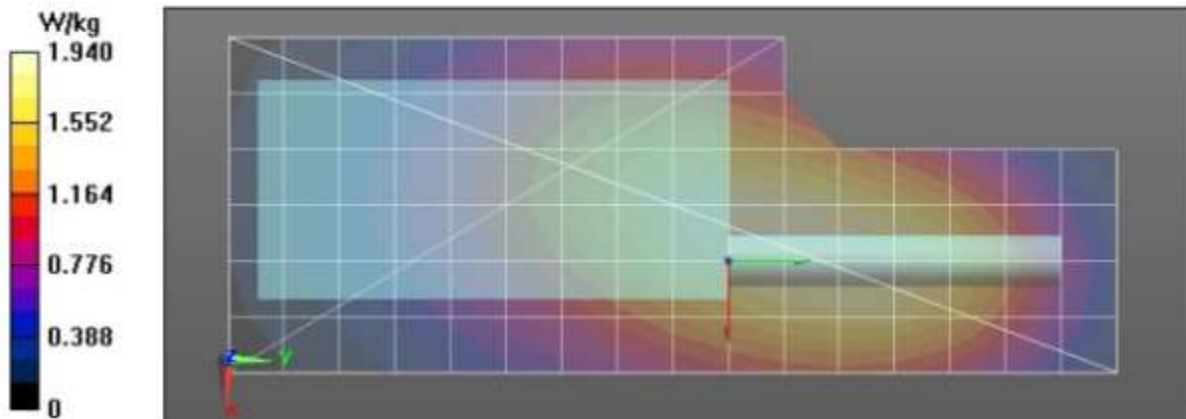
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 63.7%

Maximum value of SAR (measured) = 1.86 W/kg

**Below 2 GHz-Rev.3/Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.81 W/kg





## **APPENDIX F**

### **Shortened Scan of Highest SAR configuration**

## Shortened Scan - Table 26

## Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/4/2023 5:23:53 PM

Robot#: DASY5-PG-1 | Run#: AR-FACE-230904-06  
 Model#: AAH88JCP9JA2AN (PMUD3334C)  
 Phantom#: ELI4 1022  
 Tissue Temp: 21.0 (C)  
 Serial#: 546TZP0250  
 Antenna: PMAD4155A  
 Test Freq: 155.9875 (MHz)  
 Battery: PMNN4468B  
 Carry Acc: @ front  
 Audio Acc: N/A  
 Start Power: 2.40 (W)

Comments: Shorten scan

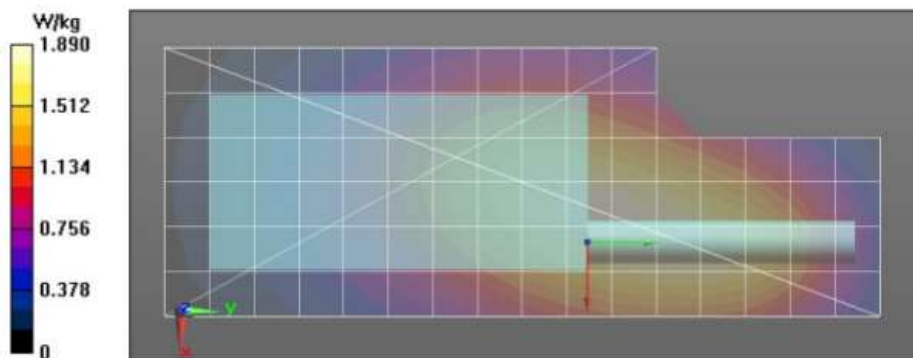
Communication System Band: Tonga, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 156$  MHz;  $\sigma = 0.77$  S/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 155.988 MHz, ConvF(13.52, 13.52, 13.52) @ 155.988 MHz  
 Electronics: DAE4 Sn850, Calibrated: 4/14/2022

**Below 2 GHz-Rev.3/Face Scan/1-Area Scan (61x161x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 49.42 V/m; Power Drift = -0.29 dB  
**Fast SAR: SAR(1 g) = 1.6 W/kg; SAR(10 g) = 1.22 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.90 W/kg

**Below 2 GHz-Rev.3/Face Scan/2-Volume 2D Scan (5x5x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
 Reference Value = 49.42 V/m; Power Drift = -0.32 dB  
 Maximum value of SAR (measured) = 1.83 W/kg

**Below 2 GHz-Rev.3/Face Scan/3-Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 50.39 V/m; Power Drift = -0.23 dB  
 Peak SAR (extrapolated) = 2.30 W/kg  
**SAR(1 g) = 1.49 W/kg; SAR(10 g) = 1.12 W/kg** (SAR corrected for target medium)  
 Smallest distance from peaks to all points 3 dB below: Larger than measurement grid  
 Ratio of SAR at M2 to SAR at M1 = 66.4%  
 Maximum value of SAR (measured) = 1.94 W/kg

**Below 2 GHz-Rev.3/Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 1.80 W/kg



Shortened scan reflects highest SAR producing configuration and is compared to the full scan.

Scan Description	Referenced Table	Test Time (min.)	SAR 1g (W/kg)
Shorten scan (zoom)	26	9	0.79
Full scan (area & zoom)	22	25	0.85

## **APPENDIX G**

### **DUT Test Position Photos**

**Photos available in Exhibit 7B**

## **APPENDIX H**

### **DUT, Body worn and audio accessories Photos**

**Photos available in Exhibit 7B**