



## DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2

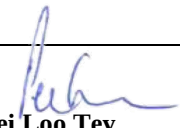
**Motorola Solutions Inc.**  
**EME Test Laboratory**  
 Motorola Solutions Malaysia Sdn Bhd  
 Plot 2A, Medan Bayan Lepas,  
 Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.

**Date of Report:** 10/07/2021  
**Report Revision:** A

**Responsible Engineer:** Saw Sun Hock (EME Engineer)  
**Report Author:** Muhammad Zakwan Bin Zaidi (EME Senior Technician)  
**Date/s Tested:** 09/22/2021-09/24/2021  
**Manufacturer:** Motorola Solutions Inc.  
**Applicant Name:** Motorola Solutions Inc.  
**DUT Description:** Handheld Portable - XPR 3300e 136-174 5W NKP TIA4950  
**Test TX mode(s):** CW (PTT)  
**Max. Power output:** Refer Table 3.0  
**Nominal Power:** Refer Table 3.0  
**Tx Frequency Bands:** LMR 136-174 MHz  
**Signaling type:** FM  
**Model(s) Tested:** AAH02JDC9VA1AN-1 (PMUD3507A)/PMUD3507AAANAA  
**Model(s) Certified:** AAH02JDC9VA1AN-1 (PMUD2645C)/PMUD2645CAANAA,  
 AAH02JDH9VA1AN-1 (PMUD2938A)/PMUD2938AABNAA,  
 AAH02JDH9VA1AN-1 (PMUD2939A)/ PMUD2939AABNAA  
 AAH02JDC9VA1AN-1 (PMUD3507A)/PMUD3507AAANAA  
**Serial Number(s):** 446TXH6230  
**Classification:** Occupational/Controlled  
**Applicant Name:** Motorola Solutions Inc  
**Applicant Address:** 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322.  
**FCC ID:** AZ489FT3850 ; LMR 150.8 - 173.4 MHz  
**IC:** 109U-89FT3850; LMR 138 – 174 MHz  
**ISED Test Site registration:** 24843  
**FCC Test Firm Registration Number:** 823256

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.

  
**Pei Loo Tey**  
 (Approved Signatory)  
 Approval Date: 10/8/2021

## **Appendix D**

### **System Verification Check Scans**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 9/21/2021 9:15:38 PM

Robot#: DASY5-PG-1 | Run#: BL-SYSP-150B-210921-10  
 Dipole Model#: CLA150  
 Phantom#: ELI4 1022  
 Tissue Temp: 19.5 (C)  
 Serial#: 4010  
 Test Freq: 150.0000 (MHz)  
 Start Power: 1000 (mW)  
 Rotation (1D): 0.085 dB  
 Adjusted SAR (1W): 3.45 mW/g (1g)

**Comments:**

Communication System Band: CLA150, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 150$  MHz;  $\sigma = 0.77$  S/m;  $\epsilon_r = 60.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 150 MHz, ConvF(13.16, 13.16, 13.16) @ 150 MHz  
 Electronics: DAE4 Sn1488, Calibrated: 4/7/2021

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

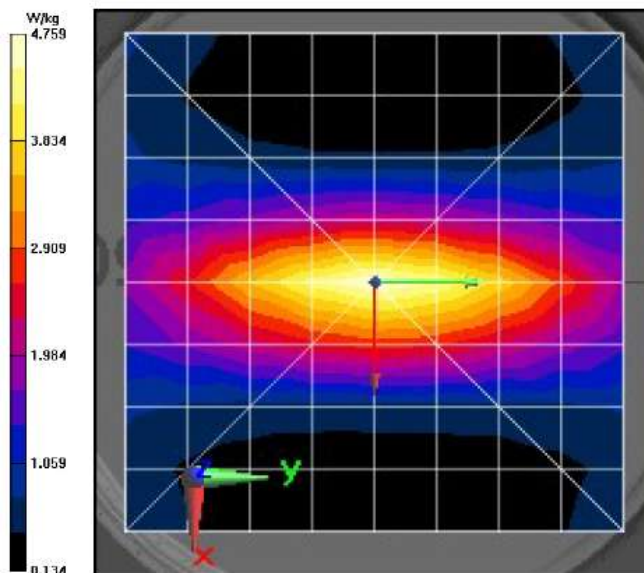
Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
 Reference Value = 78.46 V/m; Power Drift = 0.01 dB  
 Fast SAR: SAR(1 g) = 4.09 W/kg; SAR(10 g) = 2.9 W/kg (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 4.82 W/kg

**Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm  
 Reference Value = 78.46 V/m; Power Drift = 0.01 dB  
 Peak SAR (extrapolated) = 5.86 W/kg  
 SAR(1 g) = 3.45 W/kg; SAR(10 g) = 2.24 W/kg (SAR corrected for target medium)  
 Smallest distance from peaks to all points 3 dB below = 17.5 mm  
 Ratio of SAR at M2 to SAR at M1 = 58.8%  
 Maximum value of SAR (measured) = 4.78 W/kg

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

grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=10$ mm  
 Maximum value of SAR (measured) = 4.83 W/kg



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 9/22/2021 8:37:48 PM

Robot#: DASY5-PG-1 | Run#: BL-SYSP-150B-210922-15  
 Dipole Model#: CLA150  
 Phantom#: ELI4 1022  
 Tissue Temp: 19.4 (C)  
 Serial#: 4010  
 Test Freq: 150.0000 (MHz)  
 Start Power: 1000 (mW)  
 Rotation (1D): 0.073 dB  
 Adjusted SAR (1W): 3.40 mW/g (1g)

**Comments:**

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

Medium parameters used:  $f = 150$  MHz;  $\sigma = 0.77$  S/m;  $\epsilon_r = 61.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 150 MHz, ConvF(13.16, 13.16, 13.16) @ 150 MHz

Electronics: DAE4 Sn1488, Calibrated: 4/7/2021

**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 = 78.02 V/m; Power Drift = 0.03 dB

**Fast SAR: SAR(1 g) = 4.03 W/kg; SAR(10 g) = 2.86 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 4.77 W/kg

**Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

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

Reference Value = 78.02 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 5.82 W/kg

**SAR(1 g) = 3.4 W/kg; SAR(10 g) = 2.21 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 16.8 mm

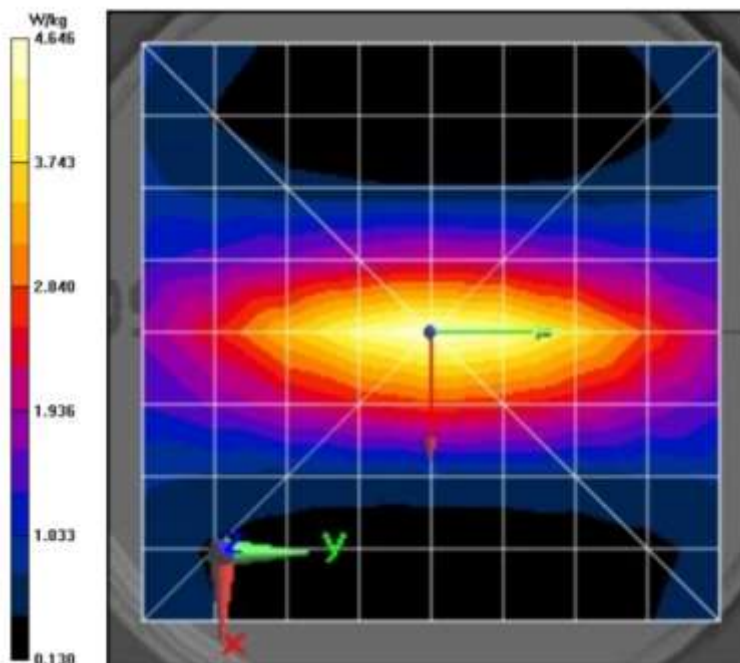
Ratio of SAR at M2 to SAR at M1 = 58.1%

Maximum value of SAR (measured) = 4.72 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) = 4.73 W/kg



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 9/24/2021 12:37:14 AM

Robot#: DASY5-PG-1 | Run#: BL-SYSP-150B-210924-01  
 Dipole Model#: CLA150  
 Phantom#: ELI4 1022  
 Tissue Temp: 23.4 (C)  
 Serial#: 4010  
 Test Freq: 150.0000 (MHz)  
 Start Power: 1000 (mW)  
 Rotation (1D): 0.088 dB  
 Adjusted SAR (1W): 3.36 mW/g (1g)

**Comments:**

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

Medium parameters used:  $f = 150$  MHz;  $\sigma = 0.82$  S/m;  $\epsilon_r = 61.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 150 MHz, ConvF(13.16, 13.16, 13.16) @ 150 MHz

Electronics: DAE4 Sn1488, Calibrated: 4/7/2021

**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 = 77.25 V/m; Power Drift = -0.01 dB

**Fast SAR: SAR(1 g) = 4 W/kg; SAR(10 g) = 2.85 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 4.96 W/kg

**Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (6x6x7)/Cube 0:**

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

Reference Value = 77.25 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 6.06 W/kg

**SAR(1 g) = 3.36 W/kg; SAR(10 g) = 2.17 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 15 mm

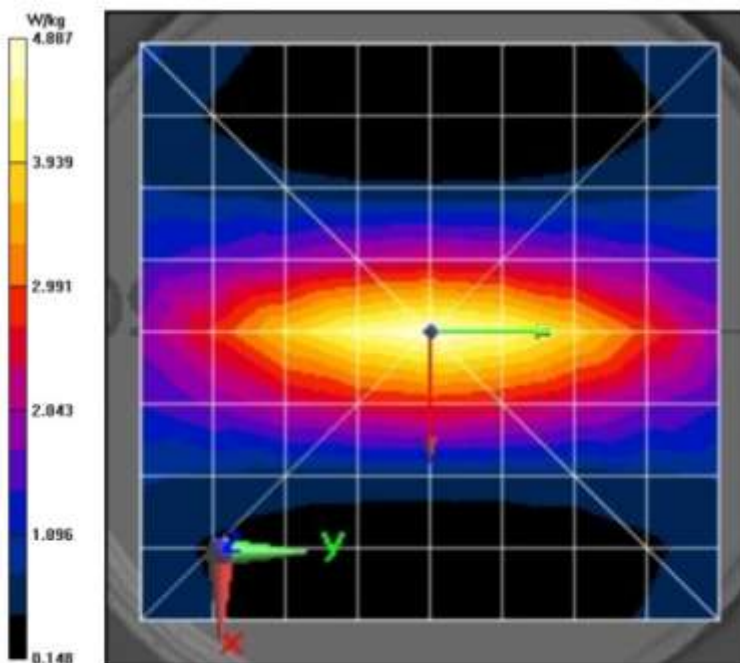
Ratio of SAR at M2 to SAR at M1 = 57.8%

Maximum value of SAR (measured) = 4.94 W/kg

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

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

Maximum value of SAR (measured) = 4.92 W/kg



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 9/23/2021 11:07:28 AM

Robot#: DASY5-PG-1 | Run#: FZ-SYSP-150H-210923-03  
 Dipole Model#: CLA150  
 Phantom#: ELI5 1147  
 Tissue Temp: 21.0 (C)  
 Serial#: 4010  
 Test Freq: 150.0000 (MHz)  
 Start Power: 1000 (mW)  
 Rotation (1D): 0.084 dB  
 Adjusted SAR (1W): 3.64 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;  $\epsilon_r = 51.7$ ;  $\rho = 1000$  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 Sn1488, Calibrated: 4/7/2021

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

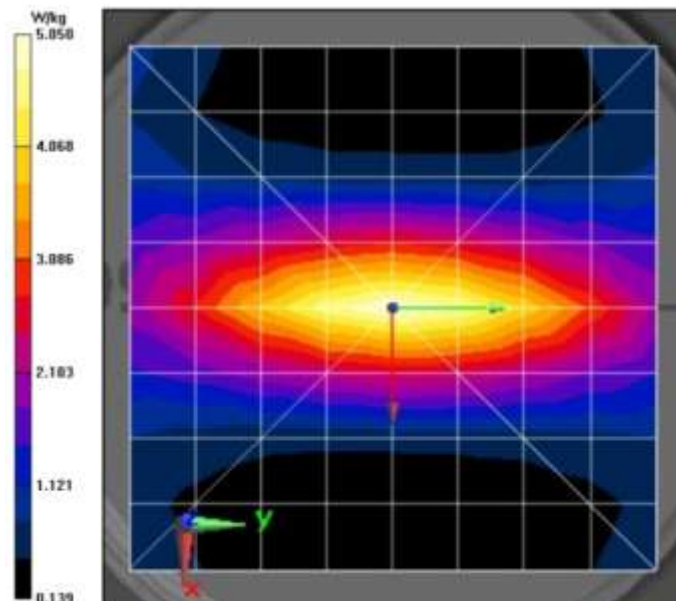
Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
 Reference Value = 82.45 V/m; Power Drift = 0.04 dB  
**Fast SAR: SAR(1 g) = 4.33 W/kg; SAR(10 g) = 3.08 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 5.12 W/kg

**Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (6x6x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm  
 Reference Value = 82.45 V/m; Power Drift = 0.04 dB  
 Peak SAR (extrapolated) = 6.20 W/kg  
**SAR(1 g) = 3.64 W/kg; SAR(10 g) = 2.35 W/kg** (SAR corrected for target medium)  
 Smallest distance from peaks to all points 3 dB below = 15 mm  
 Ratio of SAR at M2 to SAR at M1 = 58.1%  
 Maximum value of SAR (measured) = 5.06 W/kg

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

grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=10$ mm  
 Maximum value of SAR (measured) = 5.09 W/kg



## **Appendix E**

### **DUT Scans**

## Assessment for Body Configuration - Table 18 &amp; 20

## Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/22/2021 9:32:07 PM

Robot#: DASY5-PG-1 | Run#: BL-AB-210922-16  
 Model#: AAH02JDC9VA1AN-1 (PMUD3507A)  
 Phantom#: ELI4 1022  
 Tissue Temp: 19.4 (C)  
 Serial#: 446TXH6230  
 Antenna: PMAD4118A  
 Test Freq: 160.0000 (MHz)  
 Battery: PMNN4544A  
 Carry Acc: PMLN4651A  
 Audio Acc: PMLN5727A  
 Start Power: 6.00 (W)

## Comments:

Communication System Band: Andorra Refresh VHF, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used:  $f = 160$  MHz;  $\sigma = 0.78$  S/m;  $\epsilon_r = 61.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 160 MHz, ConvF(13.16, 13.16, 13.16) @ 160 MHz

Electronics: DAE4 Sn1488, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x231x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 46.51 V/m; Power Drift = -0.28 dB

**Fast SAR: SAR(1 g) = 3.22 W/kg; SAR(10 g) = 2.14 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 4.03 W/kg

**Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 46.51 V/m; Power Drift = -0.31 dB

Peak SAR (extrapolated) = 6.63 W/kg

**SAR(1 g) = 2.6 W/kg; SAR(10 g) = 1.52 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 13.4 mm

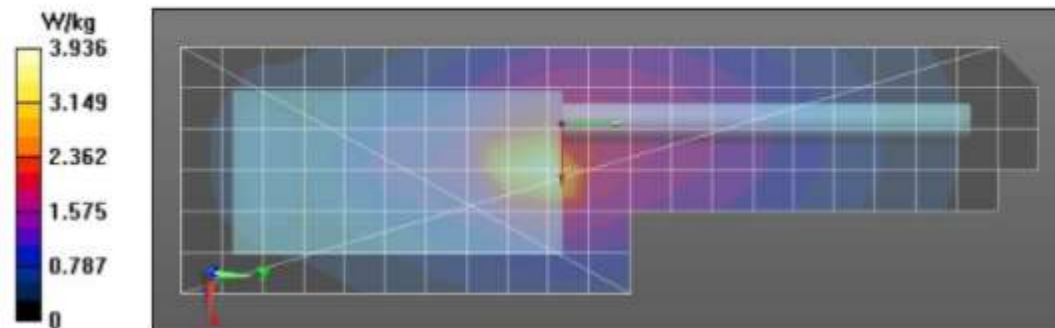
Ratio of SAR at M2 to SAR at M1 = 41.6%

Maximum value of SAR (measured) = 4.53 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) = 4.66 W/kg



## Assessment for Face Configuration Table 19 &amp; 20

## Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/23/2021 12:15:59 AM

Robot#: DASY5-PG-1 | Run#: BL-FACE-210923-01#  
 Model#: AAH02JDC9VA1AN-1 (PMUD3507A)  
 Phantom#: ELI5 1147  
 Tissue Temp: 21.2 (C)  
 Serial#: 446TXH6230  
 Antenna: PMAD4116A  
 Test Freq: 160.0000 (MHz)  
 Battery: PMNN4406BR  
 Carry Acc: @ front  
 Audio Acc: N/A  
 Start Power: 5.97 (W)

## Comments:

Communication System Band: Andorra Refresh VHF, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 160$  MHz;  $\sigma = 0.74$  S/m;  $\epsilon_r = 50.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 160 MHz, ConvF(13.52, 13.52, 13.52) @ 160 MHz  
 Electronics: DAE4 Sn1488, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Face Scan/1-Area Scan (61x221x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 61.34 V/m; Power Drift = -0.24 dB

**Fast SAR: SAR(1 g) = 2.49 W/kg; SAR(10 g) = 1.91 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.91 W/kg

**Below 2 GHz-Rev.3/Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 61.34 V/m; Power Drift = -0.26 dB

Peak SAR (extrapolated) = 3.36 W/kg

**SAR(1 g) = 2.27 W/kg; SAR(10 g) = 1.73 W/kg** (SAR corrected for target medium)

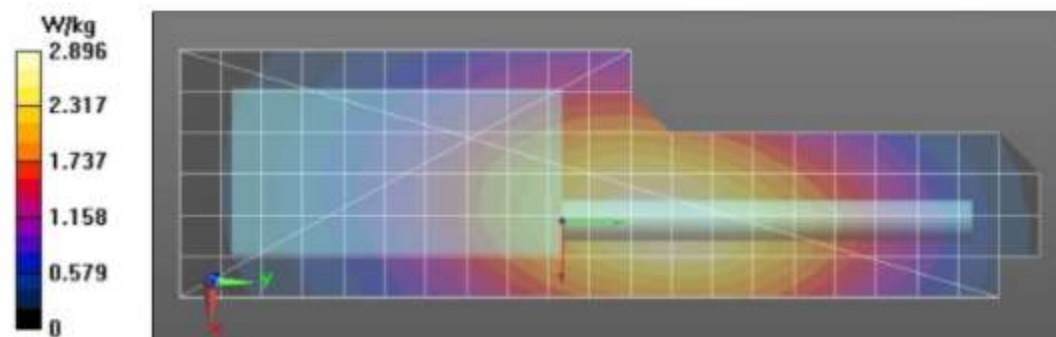
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 68.3%

Maximum value of SAR (measured) = 2.88 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) = 2.87 W/kg



## **APPENDIX F**

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

Table 21

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 9/24/2021 3:16:05 AM

Robot#: DASY5-PG-1 | Run#: BL-AB-210924-05  
 Model#: AAH02JDC9VA1AN-1 (PMUD3507A)  
 Phantom#: ELI4 1022  
 Tissue Temp: 23.4 (C)  
 Serial#: 446TXH6230  
 Antenna: PMAD4118A  
 Test Freq: 160.0000 (MHz)  
 Battery: PMNN4544A  
 Carry Acc: PMLN4651A  
 Audio Acc: PMLN5727A  
 Start Power: 6.00 (W)

Comments: Shorten Scan

Communication System Band: Andorra Refresh VHF, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used:  $f = 160$  MHz;  $\sigma = 0.83$  S/m;  $\epsilon_r = 61.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 160 MHz, ConvF(13.16, 13.16, 13.16) @ 160 MHz

Electronics: DAE4 Sn1488, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x231x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 46.44 V/m; Power Drift = -0.33 dB

**Fast SAR: SAR(1 g) = 3.05 W/kg; SAR(10 g) = 2.08 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 3.84 W/kg

**Below 2 GHz-Rev.3/Ab Scan/2-Volume 2D Scan (41x41x1):** Interpolated grid: dx=0.7500 mm, dy=0.7500 mm, dz=1.000 mm

Reference Value = 46.44 V/m; Power Drift = -0.35 dB

**Fast SAR: SAR(1 g) = 3.42 W/kg; SAR(10 g) = 2.11 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 4.41 W/kg

**Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 78.62 V/m; Power Drift = -0.22 dB

Peak SAR (extrapolated) = 7.23 W/kg

**SAR(1 g) = 2.83 W/kg; SAR(10 g) = 1.67 W/kg** (SAR corrected for target medium)

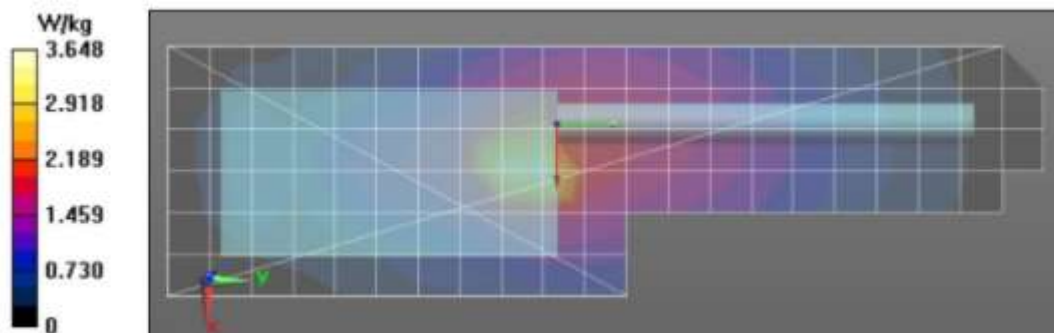
Smallest distance from peaks to all points 3 dB below = 13.4 mm

Ratio of SAR at M2 to SAR at M1 = 41.6%

Maximum value of SAR (measured) = 4.98 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) = 4.47 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)     | 21               | 9                | 1.49          |
| Full scan (area & zoom) | 18               | 25               | 1.40          |

## **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**