



**DECLARATION OF COMPLIANCE SAR ASSESSMENT PCII Report Part 2 of 2**

<p><b>Motorola Solutions Inc.</b>  <b>EME Test Laboratory</b>                  Motorola Solutions Malaysia Sdn Bhd                  Plot 2A, Medan Bayan Lepas,                  Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.</p>	<p><b>Date of Report:</b> 09/23/2021  <b>Report Revision:</b> A</p>
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**Responsible Engineer:** Ch'ng Jian Sheng (EME Engineer)  
**Report Author:** Muhammad Zakwan Bin Zaidi (Senior Technician)  
**Date/s Tested:** 08/27/2021, 08/31/2021, 09/17/2021, 09/21/2021  
**Manufacturer:** Motorola Solutions Inc.  
**DUT Description:** CLS1410 Black; 450-470 MHz at 1.0W  
**Test TX mode(s):** CW (PTT)  
**Max. Power output:** 1.3 W  
**Nominal Power:** 1.0 W  
**Tx Frequency Bands:** 450-470 MHz  
**Signaling type:** FM  
**Model(s) Tested:** CU1410BKV4BA (HCUE1081G)  
**Model(s) Certified:** AP1810BKN8BB (RLA1002G), CU1110GYN1BA (HCUE1080G), CU1110GYN1BB (HCUE1080G), CU1410BKV4BB (HCUE1081G), CU1410BKV4BS (HCUE1142G), HCUE1082G, GS1810BKN8BB (RLA1001G), P24VPC03D2BA (HCUE1157G), CU1410BKV4BA (HCUE1081G)  
**Serial Number(s):** 134TXR5794  
**Classification:** Occupational/Controlled  
**Applicant Name:** Motorola Solutions Inc  
**Applicant Address:** 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322.  
**FCC ID:** AZ489FT4963; 450-470 MHz  
**IC:** 109U-89FT4963  
**ISED Test Site registration:** 24843  
**FCC Test Firm Registration Number:** 823256

The test results clearly demonstrate compliance with FCC Occupational/Controlled RF Exposure limits of 8 W/kg averaged over 1 gram per the requirements of FCC 47 CFR § 2.1093 and RSS-102 (Issue 5).

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.

<p><b>Saw Sun Hock</b>                  (Approved Signatory)                  Approval Date: 10/4/2021</p>	
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## **Appendix D**

### **System Verification Check Scans**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/27/2021 5:07:12 PM

Robot#: DASY5-PG-1 | Run#: MHI-SYSP-450H-210827-02  
 Dipole Model#: D450V3  
 Phantom#: EL14 1108  
 Tissue Temp: 20.5 (C)  
 Serial#: 1054  
 Test Freq: 450.0000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.054 dB  
 Adjusted SAR (1W): 4.84 mW/g (1g)

Comments:

Communication System Band: D450, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.89$  S/m;  $\epsilon_r = 43.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 450 MHz, ConvF(11.24, 11.24, 11.24) @ 450 MHz  
 Electronics: DAE4 Sn1488, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x221x1):**

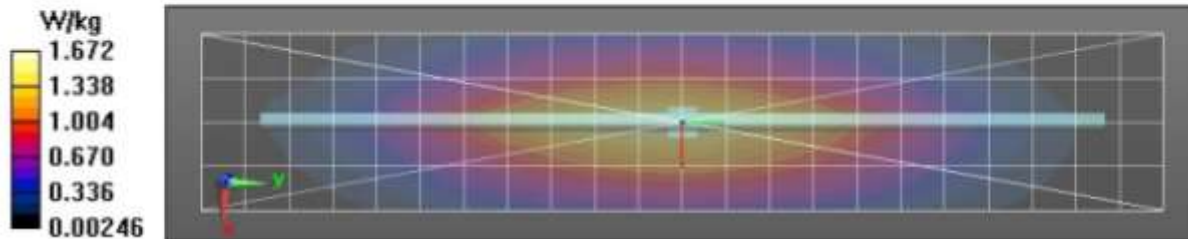
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 44.57 V/m; Power Drift = -0.00 dB  
**Fast SAR: SAR(1 g) = 1.31 W/kg; SAR(10 g) = 0.904 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.68 W/kg

**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 = 44.57 V/m; Power Drift = -0.00 dB  
 Peak SAR (extrapolated) = 1.94 W/kg  
**SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.812 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 = 63.9%  
 Maximum value of SAR (measured) = 1.68 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) = 1.69 W/kg



**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 8/30/2021 11:20:02 PM

Robot#: DASY5-PG-1 | Run#: FZ-SYSP-450H-210830-20  
 Dipole Model# D450V3  
 Phantom#: ELI4 1108  
 Tissue Temp: 20.4 (C)  
 Serial#: 1077  
 Test Freq: 450.0000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.06 dB  
 Adjusted SAR (1W): 4.96 mW/g (1g)

Comments:

Communication System Band: D450, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.84$  S/m;  $\epsilon_r = 42.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 450 MHz, ConvF(11.24, 11.24, 11.24) @ 450 MHz  
 Electronics: DAE4 Sn1488, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x221x1):**

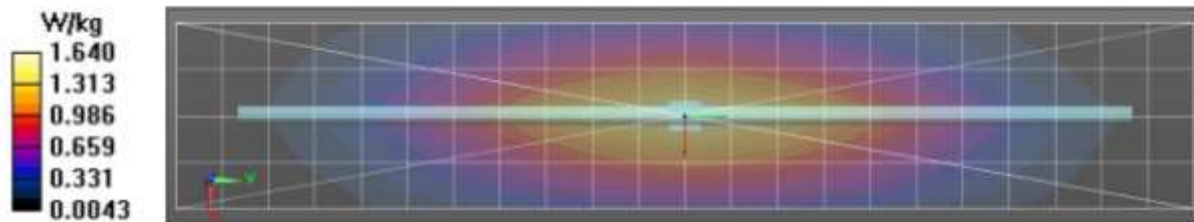
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 45.37 V/m; Power Drift = -0.02 dB  
**Fast SAR: SAR(1 g) = 1.33 W/kg; SAR(10 g) = 0.913 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.64 W/kg

**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 = 45.37 V/m; Power Drift = -0.02 dB  
 Peak SAR (extrapolated) = 1.89 W/kg  
**SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.831 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 = 64.3%  
 Maximum value of SAR (measured) = 1.65 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) = 1.65 W/kg



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 9/17/2021 5:59:30 PM

Robot#: DASY5-PG-1 | Run#: FZ-SYSP-450H-210917-13  
 Dipole Model# D450V3  
 Phantom#: ELI4 1108  
 Tissue Temp: 20.1 (C)  
 Serial#: 1077  
 Test Freq: 450.0000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.084 dB  
 Adjusted SAR (1W): 4.80 mW/g (1g)

Comments:

Communication System Band: D450, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.89$  S/m;  $\epsilon_r = 42.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 450 MHz, ConvF(11.24, 11.24, 11.24) @ 450 MHz  
 Electronics: DAE4 Sn1488, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x221x1):**

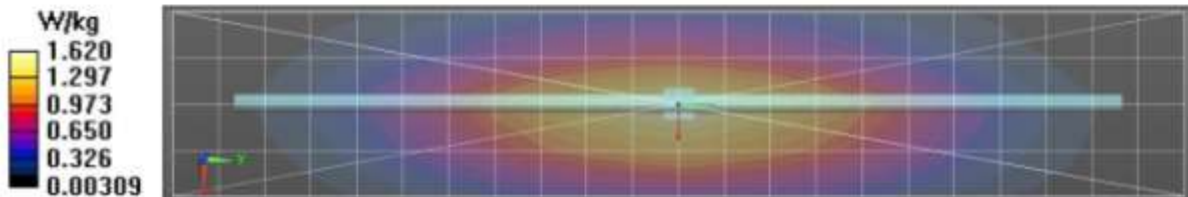
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 44.69 V/m; Power Drift = -0.11 dB  
**Fast SAR: SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.893 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.65 W/kg

**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 = 44.69 V/m; Power Drift = -0.11 dB  
 Peak SAR (extrapolated) = 1.93 W/kg  
**SAR(1 g) = 1.2 W/kg; SAR(10 g) = 0.795 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 = 63.3%  
 Maximum value of SAR (measured) = 1.67 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) = 1.66 W/kg



**Motorola Solutions, Inc. EME Laboratory**  
Date/Time: 9/21/2021 1:56:35 AM

Robot#: DASY5-PG-1 | Run#: BL-SYSP-450H-210921-03#  
 Dipole Model# D450V3  
 Phantom#: EL14 1108  
 Tissue Temp: 20.9 (C)  
 Serial#: 1077  
 Test Freq: 450.0000 (MHz)  
 Start Power: 250.0000 (mW)  
 Rotation (1D): 0.071 dB  
 Adjusted SAR (1W): 4.72 mW/g (1g)

Comments:

Communication System Band: D450, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.89$  S/m;  $\epsilon_r = 41.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 450 MHz, ConvF(11.24, 11.24, 11.24) @ 450 MHz  
 Electronics: DAE4 Sn1488, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x211x1):**

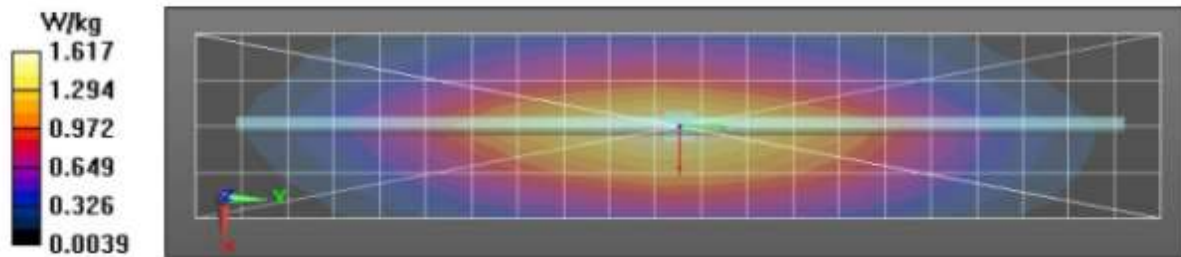
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 44.29 V/m; Power Drift = -0.05 dB  
**Fast SAR: SAR(1 g) = 1.27 W/kg; SAR(10 g) = 0.885 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.64 W/kg

**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 = 44.29 V/m; Power Drift = -0.05 dB  
 Peak SAR (extrapolated) = 1.93 W/kg  
**SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.782 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 = 62.6%  
 Maximum value of SAR (measured) = 1.66 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) = 1.66 W/kg



## Appendix E DUT Scans

Assessment for Face Configuration - Table 17

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/27/2021 6:25:51 PM

Robot#: DASY5-PG-1 | Run#: MHI-FACE-210827-03  
 Model#: CU1410BKV4BA (HCUE1081G)  
 Phantom#: ELI4 1108  
 Tissue Temp: 20.5 (C)  
 Serial#: 134TXR5794  
 Antenna: Fixed Antenna  
 Test Freq: 450.0000 (MHz)  
 Battery: PMNN4497A  
 Carry Acc: @ front  
 Audio Acc: N/A  
 Start Power: 0.865 (W)

Comments:

Communication System Band: Fiji UHF, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used:  $f = 450 \text{ MHz}$ ;  $\sigma = 0.89 \text{ S/m}$ ;  $\epsilon_r = 43.4$ ;  $\rho = 1000 \text{ kg/m}^3$

Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 450 MHz, ConvF(11.24, 11.24, 11.24) @ 450 MHz

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

**Below 2 GHz-Rev.3/Face Scan/1-Area Scan (61x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Reference Value = 43.19 V/m; Power Drift = -0.41 dB

**Fast SAR: SAR(1 g) = 1.65 W/kg; SAR(10 g) = 1.2 W/kg** (SAR corrected for target medium)

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

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

Reference Value = 43.19 V/m; Power Drift = -0.57 dB

Peak SAR (extrapolated) = 2.15 W/kg

**SAR(1 g) = 1.52 W/kg; SAR(10 g) = 1.1 W/kg** (SAR corrected for target medium)

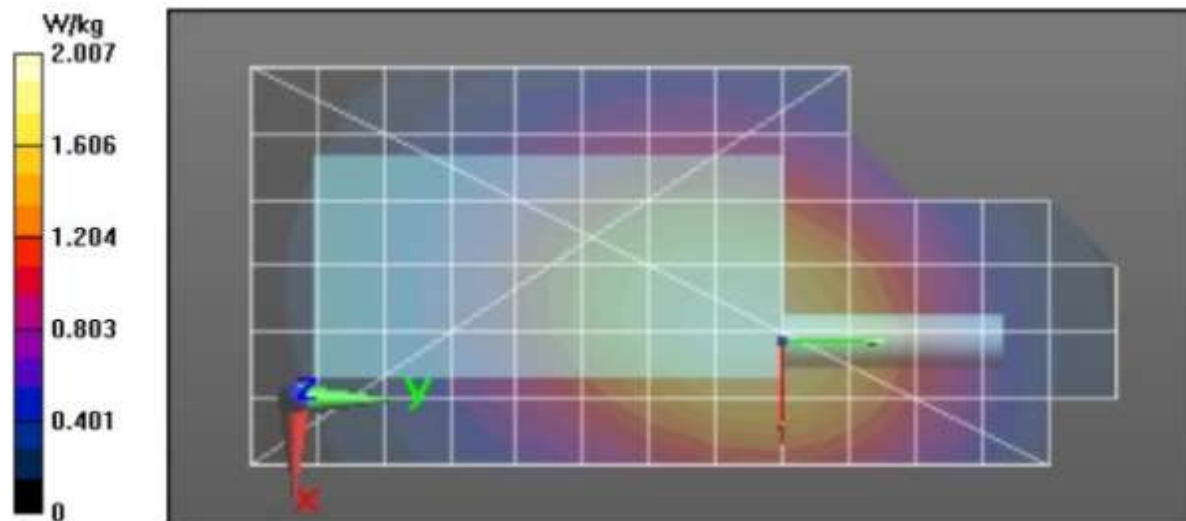
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 70.4%

Maximum value of SAR (measured) = 1.92 W/kg

**Below 2 GHz-Rev.3/Face 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) = 1.88 W/kg





### Assessment for Body Configuration Table 17 and 18

**Motorola Solutions, Inc. EME Laboratory**  
Date/Time: 8/31/2021 12:12:32 AM

Robot#: DASY5-PG-1 | Run#: FZ-AB-210831-01#  
 Model#: CU1410BKV4BA (HCUE1081G)  
 Phantom#: ELI4 1108  
 Tissue Temp: 20.1 (C)  
 Serial#: 134TXR5794  
 Antenna: Fixed Antenna  
 Test Freq: 450.0000 (MHz)  
 Battery: PMNN4497A  
 Carry Acc: HCLN4013C  
 Audio Acc: HKLN4606A  
 Start Power: 0.865 (W)

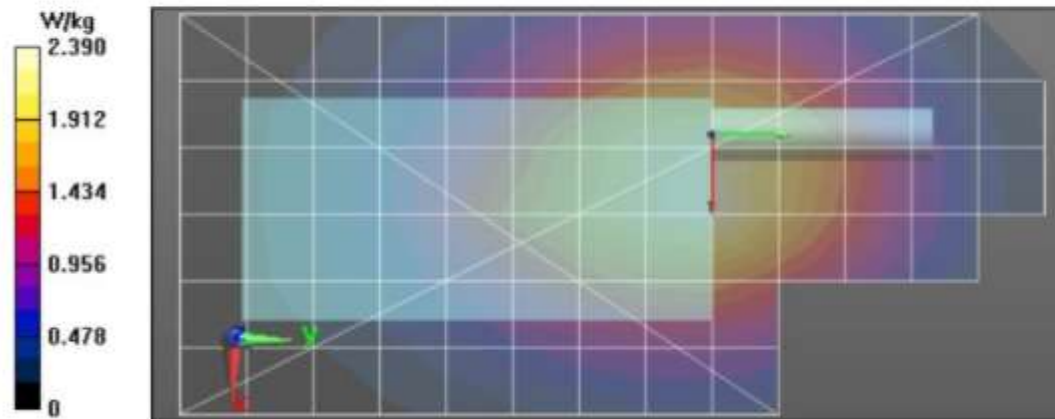
**Comments:**

Communication System Band: Fiji UHF, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.84$  S/m;  $\epsilon_r = 42.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 450 MHz, ConvF(11.24, 11.24, 11.24) @ 450 MHz  
 Electronics: DAE4 Sn1488, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 48.28 V/m; Power Drift = -0.34 dB  
**Fast SAR: SAR(1 g) = 2.04 W/kg; SAR(10 g) = 1.45 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 2.48 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 = 48.28 V/m; Power Drift = -0.42 dB  
 Peak SAR (extrapolated) = 2.79 W/kg  
**SAR(1 g) = 1.96 W/kg; SAR(10 g) = 1.39 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 = 69.1%  
 Maximum value of SAR (measured) = 2.48 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) = 2.47 W/kg



**APPENDIX F**  
**Shortened Scan of Highest SAR configuration**

**Motorola Solutions, Inc. EME Laboratory**  
Date/Time: 9/21/2021 3:32:25 AM

Robot#: DASY5-PG-1 | Run#: BL-AB-210921-05#  
 Model#: CU1410BKV4BA (HCUE1081G)  
 Phantom#: EL14 1108  
 Tissue Temp: 21.3 (C)  
 Serial#: 134TXR5794  
 Antenna: Fixed Antenna  
 Test Freq: 450.0000 (MHz)  
 Battery: PMNN4497A  
 Carry Acc: HCLN4013C  
 Audio Acc: HKLN4606A  
 Start Power: 0.865 (W)

Comments: Shorten scan

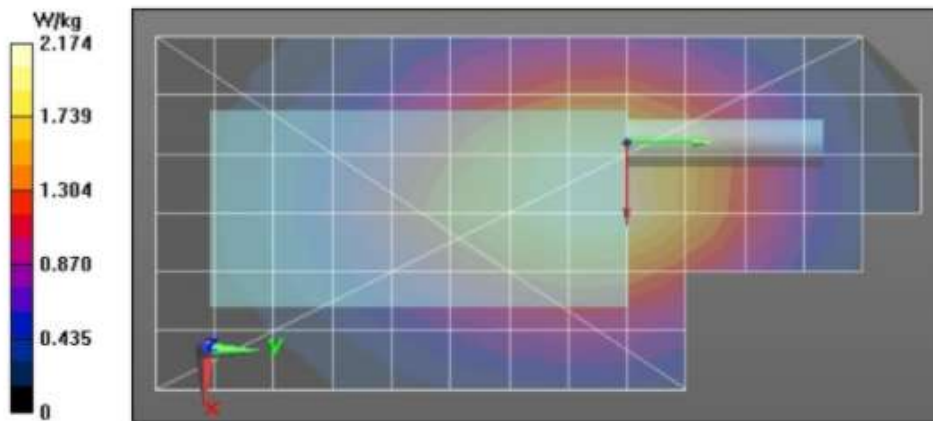
Communication System Band: Fiji UHF, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.89$  S/m;  $\epsilon_r = 41.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 450 MHz, ConvF(11.24, 11.24, 11.24) @ 450 MHz  
 Electronics: DAE4 Sn1488, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 43.51 V/m; Power Drift = -0.51 dB  
**Fast SAR: SAR(1 g) = 1.84 W/kg; SAR(10 g) = 1.32 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 2.28 W/kg

**Below 2 GHz-Rev.3/Ab Scan/2-Volume Scan 2D (41x41x1):** Interpolated grid: dx=0.7500 mm, dy=0.7500 mm, dz=1.000 mm  
 Reference Value = 43.51 V/m; Power Drift = -0.53 dB  
**Fast SAR: SAR(1 g) = 1.88 W/kg; SAR(10 g) = 1.33 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 2.33 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 = 55.95 V/m; Power Drift = -0.26 dB  
 Peak SAR (extrapolated) = 2.89 W/kg  
**SAR(1 g) = 1.9 W/kg; SAR(10 g) = 1.32 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) = 2.53 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) = 2.31 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)	19	8	1.52
Full scan (area & zoom)	17	20	1.62

## **APPENDIX G**

### **DUT Test Position Photos**

**1.0 Highest SAR Test Position per location**

**1.1 Body**

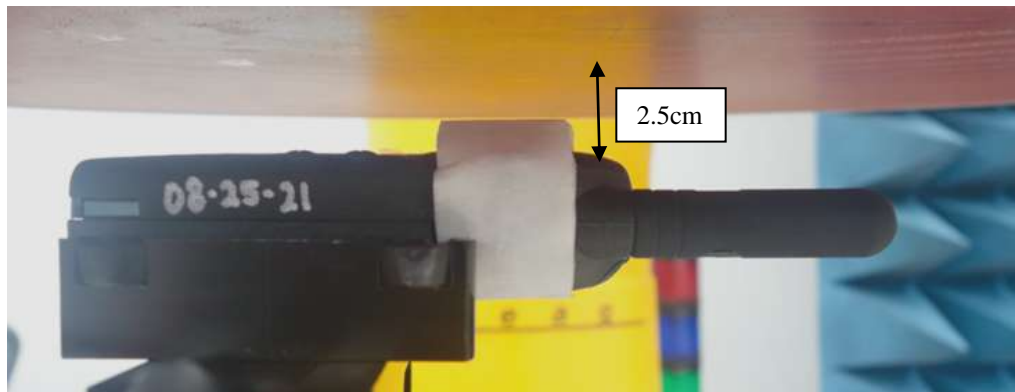
DUT with Fixed antenna, battery PMNN4497A and Belt clip HCLN4013C positioned against the phantom with an audio accessory HKLN4606A attached.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
Fixed	9	26	31

**1.2 Face**

Front of DUT with Fixes antenna and battery PMNN4497A separated 2.5cm from the phantom without an audio accessory attached.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
Fixed	27	32	32

## **APPENDIX H Additional Accessories**

**For photos of previously approved accessories please refer to previous filing report.**