00004/00005







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:** 11/08/2023

Report Revision: C

Responsible Engineer: Alfred Hoe (EME Engineer)

Report Author: Muhammad Hizami bin Ismail (EME Senior Technician)

Date/s Tested: 08/08/2023-08/10/2023 **Manufacturer:** Motorola Solutions Inc.

DUT Description: Handheld Portable – SL300 403-470M 2-3W DISPLAY

Test TX mode(s): CW (PTT)

Max. Power output: Refer to Table 3 part 1 of 2 Nominal Power: Refer to Table 3 part 1 of 2

Tx Frequency Bands: LMR 403-470MHz

Signaling type: FM, TDMA

Model(s) Tested: AAH88QCP9JA2AN (PMUE4541C); IC Model: PMUE4541CAMNAA Model(s) Certified: AAH88QCP9JA2AN (PMUE4541C); IC Model: PMUE4541CAMNAA,

AAH88QCC9JA2AN (PMUE4542C); IC Model: PMUE4542CAANAA

Serial Number(s): 546TZP0438

Classification: Occupational/Controlled Applicant Name: Motorola Solutions Inc.

Applicant Address: 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322

Firmware Version: D01.23.02.0018 **FCC ID:** AZ489FT4977

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:

IC:

109U-89FT4977

823256

This report contains results that are immaterial for ISED equipment approval,

which are clearly identified.

ISED Test Site registration: 24843

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.

L.

Saw Sun Hock (Approval Signatory) Approval Date: 11/8/2023

Appendix D System Verification Check Scans

Motorola Solutions, Inc. EME Laboratory Date/Time: 8/9/2023 1:51:30 PM

Robot#: DASY5-PG-3 | Run#: ZIQ-SYSP-450H-230809-11

 Dipole Model#
 D450V3

 Phantom#:
 ELI4 1028

 Tissue Temp:
 21.5 (C)

 Serial#:
 1053

Test Freq: 450.0000 (MHz)
Start Power: 250 (mW)
Rotation (1D): 0.043 dB

Adjusted SAR (1W): 5.00 mW/g (1g)

Comments:

Communication System Band: Dipole 450, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used: f = 450 MHz; $\sigma = 0.88 \text{ S/m}$; $\varepsilon_r = 43.1$; $\rho = 1000 \text{ kg/m}^3$

Probe: EX3DV4 - SN7519, Calibrated: 2/28/2022, Frequency: 450 MHz, ConvF(11.36, 11.36, 11.36) @ 450 MHz

Electronics: DAE4 Sn684, Calibrated: 2/22/2022

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x231x1):

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

Reference Value = 45.33 V/m; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 1.35 W/kg; SAR(10 g) = 0.933 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.71 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 = 45.33 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 1.25 W/kg; SAR(10 g) = 0.828 W/kg (SAR corrected for target medium)

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

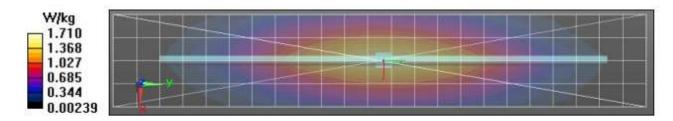
Ratio of SAR at M2 to SAR at M1 = 62.7%

Maximum value of SAR (measured) = 1.73 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) = 1.73 W/kg



00004/00005

Motorola Solutions, Inc. EME Laboratory Date/Time: 11/3/2023 3:23:34 PM

Robot#: DASY5-PG-2 | Run#: SHM-SYSP-450H-231103-05

Dipole Model# D450V3
Phantom#: ELI4 1050
Tissue Temp: 21.4 (C)
Serial#: 1077

Test Freq: 450.0000 (MHz)
Start Power: 250 (mW)
Rotation (1D): 0.060 dB
Adjusted SAR (1W): 4.92 mW/g (1g)

Comments:

Communication System Band: Dipole 450, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used: f = 450 MHz; $\sigma = 0.86 \text{ S/m}$; $\varepsilon_r = 41.8$; $\rho = 1000 \text{ kg/m}^3$

Probe: EX3DV4 - SN7364, Calibrated: 2/28/2022, Frequency: 450 MHz, ConvF(10.96, 10.96, 10.96) @ 450 MHz

Electronics: DAE4 Sn1598, 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 = 45.13 V/m; Power Drift = 0.05 dB

Fast SAR: SAR(1 g) = 1.33 W/kg; SAR(10 g) = 0.916 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.66 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 = 45.13 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.96 W/kg

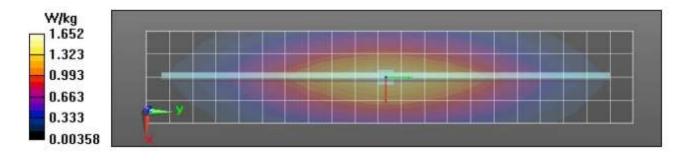
SAR(1 g) = 1.23 W/kg; SAR(10 g) = 0.827 W/kg (SAR corrected for target medium) Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 63.3% Maximum value of SAR (measured) = 1.68 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) = 1.67 W/kg



00004/00005

Appendix E DUT Scans

Highest Configuration at FCC Body (Full scan) – Table 19

Motorola Solutions, Inc. EME Laboratory Date/Time: 8/9/2023 5:31:25 PM

Robot#: DASY5-PG-3 | Run#: ZIQ-AB-230809-14

Model#: AAH88QCP9JA2AN (PMUE4541C)

Phantom#: ELI4 1028 21.4 (C) Tissue Temp: 546TZP0438 Serial#: Antenna: PMAE4093B 406.2000 (MHz) Test Freq: PMNN4468B Battery: Carry Acc: PMLN7128A PMMN4125B Audio Acc: Start Power: 2.40 (W)

Comments:

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

Medium parameters used: f = 406 MHz; $\sigma = 0.84$ S/m; $\varepsilon_s = 44$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7519, Calibrated: 2/28/2022, Frequency: 406.2 MHz, ConvF(11.36, 11.36, 11.36) @ 406.2 MHz

Electronics: DAE4 Sn684, Calibrated: 2/22/2022

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

Reference Value = 80.17 V/m; Power Drift = -0.38 dB

Fast SAR: SAR(1 g) = 4.66 W/kg; SAR(10 g) = 3.39 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 5.58 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 = 80.17 V/m; Power Drift = -0.44 dB

Peak SAR (extrapolated) = 6.27 W/kg

SAR(1 g) = 4.42 W/kg; SAR(10 g) = 3.26 W/kg (SAR corrected for target medium)

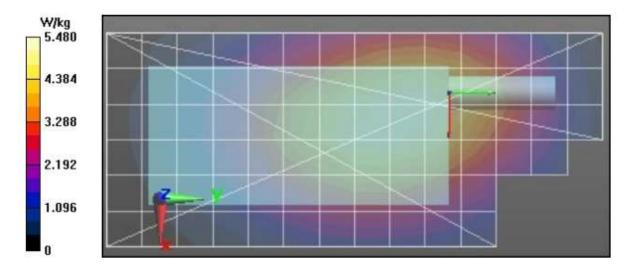
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 69.6% Maximum value of SAR (measured) = 5.49 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) = 5.49 W/kg



00004/00005

Highest Configuration at FCC Face - Table 21

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/9/2023 7:38:42 AM

Robot#: DASY5-PG-3 | Run#: ZIQ-FACE-230809-06@

Model#: AAH88QCP9JA2AN (PMUE4541C)

 Phantom#:
 ELI4 1028

 Tissue Temp:
 21.5 (C)

 Serial#:
 546TZP0438

 Antenna:
 PMAE4093B

 Test Freq:
 415.6000 (MHz)

 Battery:
 PMNN4468B

 Carry Ace:
 @front

 Audio Ace:
 N/A

 Start Power:
 2.40 (W)

Comments:

Communication System Band: Tonga UHF Plus1, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used: f = 416 MHz; $\sigma = 0.85$ S/m; $\varepsilon_r = 42.8$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7519, Calibrated: 2/28/2022, Frequency: 415.6 MHz, ConvF(11.36, 11.36, 11.36) @ 415.6 MHz

Electronics: DAE4 Sn684, Calibrated: 2/22/2022

Below 2 GHz-Rev.3/Face Scan/1-Area Scan (71x151x1): Interpolated grid: dx=1.500 mm, dy=1.500

mm

Reference Value = 87.38 V/m; Power Drift = -0.39 dB

Fast SAR; SAR(1 g) = 5.35 W/kg; SAR(10 g) = 3.88 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 6.50 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 = 87.38 V/m; Power Drift = -0.50 dB

Peak SAR (extrapolated) = 6.93 W/kg

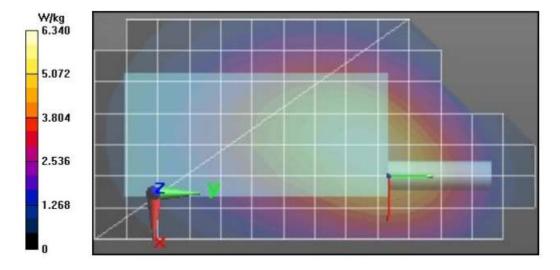
SAR(1 g) = 4.78 W/kg; SAR(10 g) = 3.48 W/kg (SAR corrected for target medium)

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

Ratio of SAR at M2 to SAR at M1 = 68.2% Maximum value of SAR (measured) = 6.07 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) = 6.00 W/kg



Highest Configuration at ISED Body - Table 23

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/9/2023 5:31:25 PM

Robot#: DASY5-PG-3 | Run#: ZIQ-AB-230809-14

Model#: AAH88QCP9JA2AN (PMUE4541C)

Phantom#: ELI4 1028 Tissue Temp: 21.4 (C) Serial#: 546TZP0438 Antenna: PMAE4093B 406.2000 (MHz) Test Freq: Battery: PMNN4468B Carry Acc: PMLN7128A PMMN4125B Audio Acc: Start Power: 2.40 (W)

Comments:

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

Medium parameters used: f = 406 MHz; $\sigma = 0.84$ S/m; $\varepsilon_r = 44$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7519, Calibrated: 2/28/2022, Frequency: 406.2 MHz, ConvF(11.36, 11.36, 11.36) @ 406.2 MHz

Electronics: DAE4 Sn684, Calibrated: 2/22/2022

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

Reference Value = 80.17 V/m; Power Drift = -0.38 dB

Fast SAR: SAR(1 g) = 4.66 W/kg; SAR(10 g) = 3.39 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 5.58 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 = 80.17 V/m; Power Drift = -0.44 dB

Peak SAR (extrapolated) = 6.27 W/kg

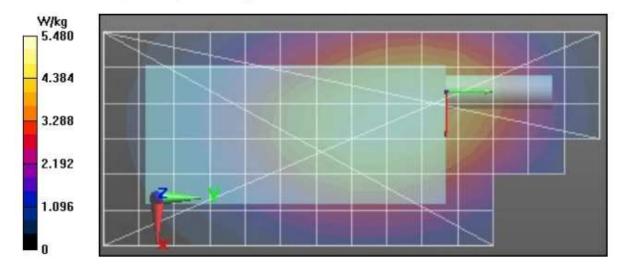
SAR(1 g) = 4.42 W/kg; SAR(10 g) = 3.26 W/kg (SAR corrected for target medium)

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

Ratio of SAR at M2 to SAR at M1 = 69.6% Maximum value of SAR (measured) = 5.49 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) = 5.49 W/kg



Highest Configuration at ISED Face - Table 23

Motorola Solutions, Inc. EME Laboratory Date/Time: 8/10/2023 5:43:27 PM

: Robot#: DASY5-PG-3 | Run#: IRA-FACE-230810-16

Model#: AAH88QCP9JA2AN (PMUE4541C)

2.40 (W)

Phantom#: ELI4 1028 Tissue Temp: 22.0 (C) 546TZP0438 Serial#: Antenna: PMAE4093B Test Freq: 415.6000 (MHz) Battery: PMNN4468B Carry Acc: @front Audio Acc: N/A

Comments:

Start Power:

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

Medium parameters used: f = 416 MHz; $\sigma = 0.84$ S/m; $\varepsilon_r = 44.6$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7519, Calibrated: 2/28/2022, Frequency: 415.6 MHz, ConvF(11.36, 11.36, 11.36) @ 415.6 MHz

Electronics: DAE4 Sn684, Calibrated: 2/22/2022

Below 2 GHz-Rev.3/Face Scan/1-Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500

mm

Reference Value = 87.73 V/m; Power Drift = -0.38 dB

Fast SAR: SAR(1 g) = 5.54 W/kg; SAR(10 g) = 4.01 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 6.60 W/kg

Below 2 GHz-Rev.3/Face Scan/2-Volume Scan 2D (41x41x1): Interpolated grid: dx=0.7500 mm,

dy=0.7500 mm, dz=1.000 mm

Reference Value = 87.73 V/m; Power Drift = -0.44 dB

Fast SAR: SAR(1 g) = 5.33 W/kg; SAR(10 g) = 3.91 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 6.30 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 = 91.89 V/m; Power Drift = -0.26 dB

Peak SAR (extrapolated) = 7.35 W/kg

SAR(1 g) = 5.23 W/kg; SAR(10 g) = 3.82 W/kg (SAR corrected for target medium)

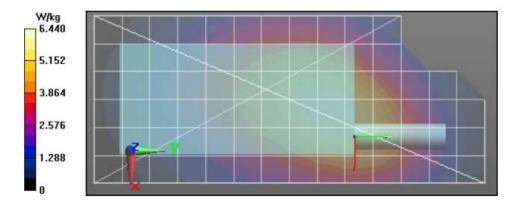
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 69.5%

Maximum value of SAR (measured) = 6.45 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) = 6.22 W/kg



00004/00005

APPENDIX F Shortened Scan of Highest SAR configuration

Shortened Scan - Table 24

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/10/2023 5:43:27 PM

: Robot#: DASY5-PG-3 | Run#: IRA-FACE-230810-16

Model#: AAH88QCP9JA2AN (PMUE4541C)

2.40 (W)

Phantom#: ELI4 1028 Tissue Temp: 22.0 (C) 546TZP0438 Serial#: Antenna: PMAE4093B Test Freq: 415.6000 (MHz) Battery: PMNN4468B Carry Acc: @front Audio Acc: N/A

Comments:

Start Power:

00004/00005

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

Medium parameters used: f = 416 MHz; $\sigma = 0.84$ S/m; $\varepsilon_r = 44.6$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7519, Calibrated: 2/28/2022, Frequency: 415.6 MHz, ConvF(11.36, 11.36, 11.36) @ 415.6 MHz

Electronics: DAE4 Sn684, Calibrated: 2/22/2022

Below 2 GHz-Rev.3/Face Scan/1-Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500

mm

Reference Value = 87.73 V/m; Power Drift = -0.38 dB

Fast SAR: SAR(1 g) = 5.54 W/kg; SAR(10 g) = 4.01 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 6.60 W/kg

Below 2 GHz-Rev.3/Face Scan/2-Volume Scan 2D (41x41x1): Interpolated grid: dx=0.7500 mm,

dy=0.7500 mm, dz=1.000 mm

Reference Value = 87.73 V/m; Power Drift = -0.44 dB

Fast SAR: SAR(1 g) = 5.33 W/kg; SAR(10 g) = 3.91 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 6.30 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 = 91.89 V/m; Power Drift = -0.26 dB

Peak SAR (extrapolated) = 7.35 W/kg

SAR(1 g) = 5.23 W/kg; SAR(10 g) = 3.82 W/kg (SAR corrected for target medium)

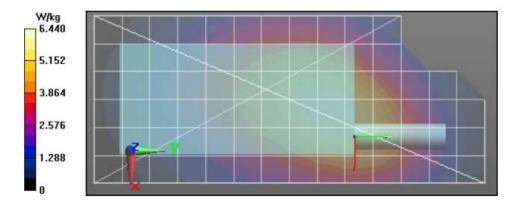
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 69.5%

Maximum value of SAR (measured) = 6.45 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) = 6.22 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)	24	9	2.78
Full scan (area & zoom)	19	20	2.68

00004/00005

APPENDIX G DUT Test Position Photos

Photos available in Exhibit 7B

00004/00005

APPENDIX H DUT, Body worn and audio accessories Photos

Photos available in Exhibit 7B