



CERTIFICATE 2518.05

DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2

**Motorola Solutions Inc.
EME Test Laboratory**

Motorola Solutions Malaysia Sdn Bhd
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Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.

Date of Report: 08/05/2020

Report Revision: A

Responsible Engineer: Jian Sheng Ch'ng (EME Engineer)
Report Author: Lee Kin Kting (Senior Technician)
Date/s Tested: 6/28/2020, 6/30/2020, 7/1/2020-7/2/2020, 7/7/2020-7/8/2020, 7/20/2020-7/21/2020, 7/23/2020, 07/31/2020, 08/04/2020
Manufacturer: Motorola Solutions Inc.
DUT Description: Handheld Portable – XPR 7550 IS 136-174 MHz 5W FKP GPS GOB CSA
Test TX mode(s): CW (PTT)
Max. Power output: 6.0W
Nominal Power: 5.0W
Tx Frequency Bands: 136-174 MHz
Signaling type: FM
Model(s) Tested: AAH56JDN9PA3AN (PMUD3254A), (IC MODEL: PMUD3254ABCNAA)
Model(s) Certified: AAH56JDN9PA3AN (PMUD3254A), (IC MODEL: PMUD3254ABCNAA)
Serial Number(s): 627TWK0669
Classification: Occupational/Controlled
Applicant Name: Motorola Solutions Inc
Applicant address: 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322
FCC ID: AZ489FT3848; LMR 150.8-173.4MHz
IC: This report contains results that are immaterial for FCC equipment approval, which are clearly identified.
109U-89FT3848; LMR 138-174 MHz
This report contains results that are immaterial for ISED equipment approval, which are clearly identified.
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.

Tiong Nguk Ing
Deputy Technical Manager (Approved Signatory)

Approval Date: 8/5/2020

Appendix D

System Verification Check Scans

Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/28/2020 7:22:17 AM

Robot#: DASY5-PG-1 | Run#: ZZ-SYSP-150H-200628-01
 Dipole Model#: CLA150
 Phantom#: ELI4 1109
 Tissue Temp: 20.3 (C)
 Serial#: 4016
 Test Freq: 150.0000 (MHz)
 Start Power: 1000 (mW)
 Rotation (1D): 0.19 dB
 Adjusted SAR (1W): 3.99 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 150$ MHz; $\sigma = 0.72$ S/m; $\epsilon_r = 51$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 150 MHz, ConvF(13.81, 13.81, 13.81) @ 150 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

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

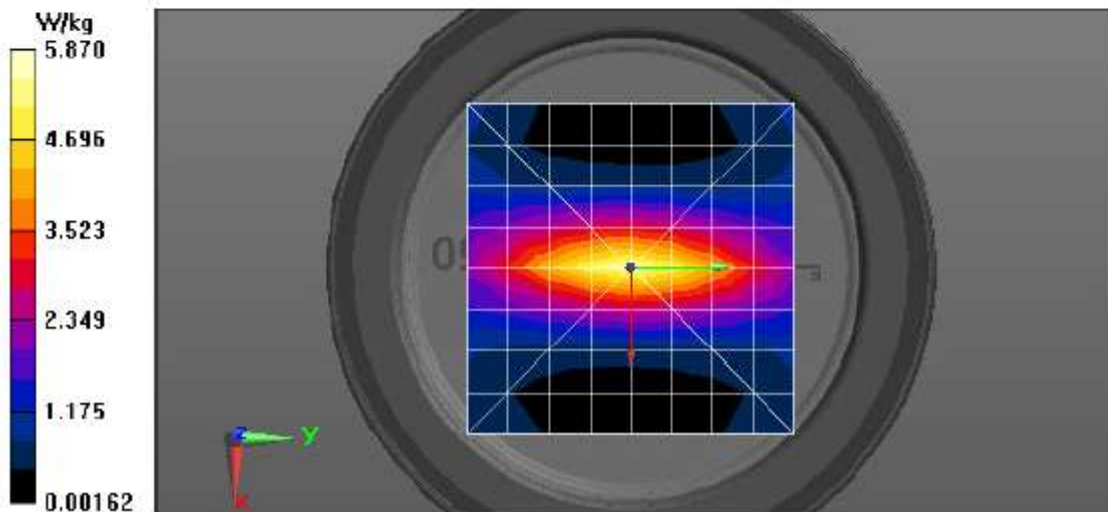
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 89.87 V/m; Power Drift = 0.01 dB
 Fast SAR: SAR(1 g) = 4.78 W/kg; SAR(10 g) = 3.37 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 5.58 W/kg

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 = 89.87 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 6.92 W/kg
 SAR(1 g) = 3.99 W/kg; SAR(10 g) = 2.55 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 5.54 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) = 5.87 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/30/2020 7:46:56 AM

Robot#: DASY5-PG-1 | Run#: ZZ-SYSP-150H-200630-01
 Dipole Model#: CLA150
 Phantom#: ELI4 1109
 Tissue Temp: 20.9 (C)
 Serial#: 4016
 Test Freq: 150.0000 (MHz)
 Start Power: 1000 (mW)
 Rotation (1D): 0.19 dB
 Adjusted SAR (1W): 3.90 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 150$ MHz; $\sigma = 0.74$ S/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 150 MHz, ConvF(13.81, 13.81, 13.81) @ 150 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

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

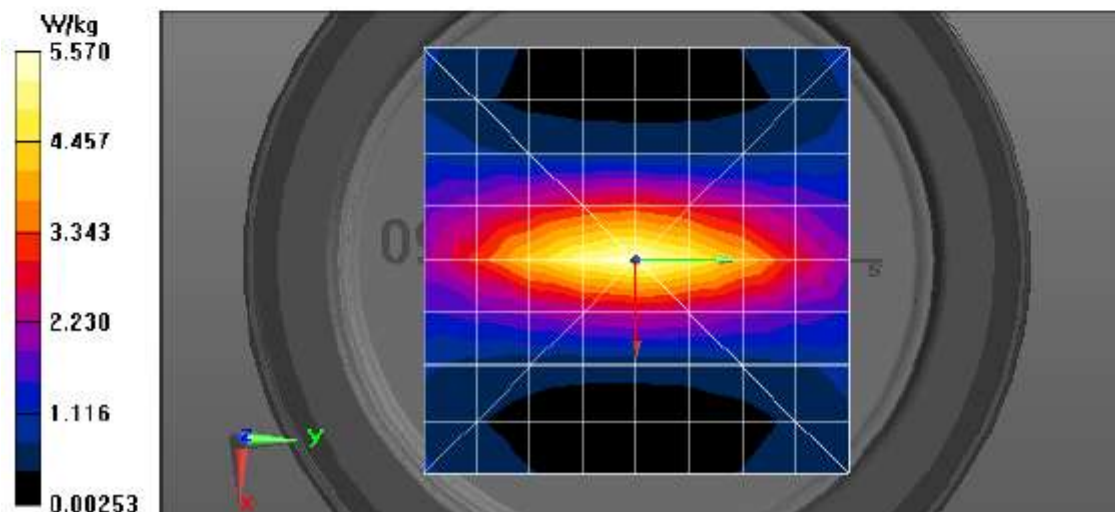
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 87.14 V/m; Power Drift = -0.07 dB
 Fast SAR: SAR(1 g) = 4.71 W/kg; SAR(10 g) = 3.32 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 5.63 W/kg

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 = 87.14 V/m; Power Drift = -0.07 dB
 Peak SAR (extrapolated) = 6.87 W/kg
 SAR(1 g) = 3.9 W/kg; SAR(10 g) = 2.49 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 5.53 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) = 5.57 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/1/2020 8:00:23 AM

Robot#: DASY5-FL-1 | Run#: ZZ-SYSP-150H-200701-05
 Dipole Model#: CLA150
 Phantom#: ELI4 1109
 Tissue Temp: 20.3 (C)
 Serial#: 4016
 Test Freq: 150.0000 (MHz)
 Start Power: 1000 (mW)
 Rotation (1D): 0.24 dB
 Adjusted SAR (1W): 3.91 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 150$ MHz; $\sigma = 0.73$ S/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 150 MHz, ConvF(13.81, 13.81, 13.81) @ 150 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

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

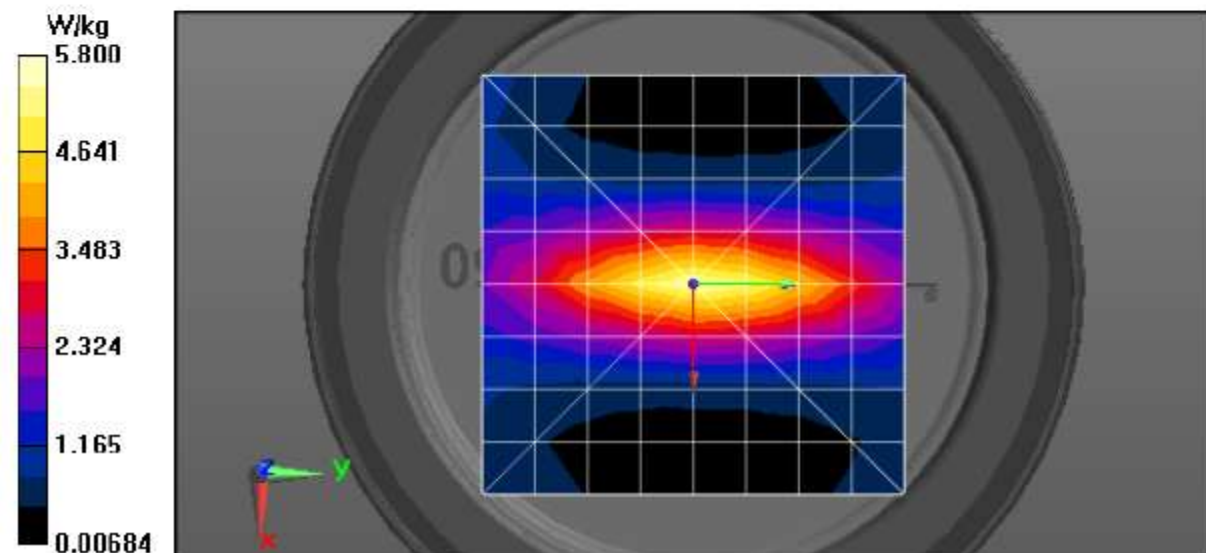
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 86.79 V/m; Power Drift = -0.04 dB
 Fast SAR: SAR(1 g) = 4.73 W/kg; SAR(10 g) = 3.33 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 5.60 W/kg

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 = 86.79 V/m; Power Drift = -0.04 dB
 Peak SAR (extrapolated) = 6.94 W/kg
 SAR(1 g) = 3.91 W/kg; SAR(10 g) = 2.5 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 5.58 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) = 5.80 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/2/2020 7:51:27 AM

Robot#: DASY5-PG-1 | Run#: ZZ-SYSP-150H-200702-05
 Dipole Model#: CLA150
 Phantom#: ELI4 1109
 Tissue Temp: 19.9 (C)
 Serial#: 4016
 Test Freq: 150.0000 (MHz)
 Start Power: 1000 (mW)
 Rotation (1D): 0.22 dB
 Adjusted SAR (1W): 3.90 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 150$ MHz; $\sigma = 0.78$ S/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 150 MHz, ConvF(13.81, 13.81, 13.81) @ 150 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

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 = 91.13 V/m; Power Drift = -0.09 dB

Fast SAR: SAR(1 g) = 4.88 W/kg; SAR(10 g) = 3.45 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 6.07 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 = 91.13 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 7.17 W/kg

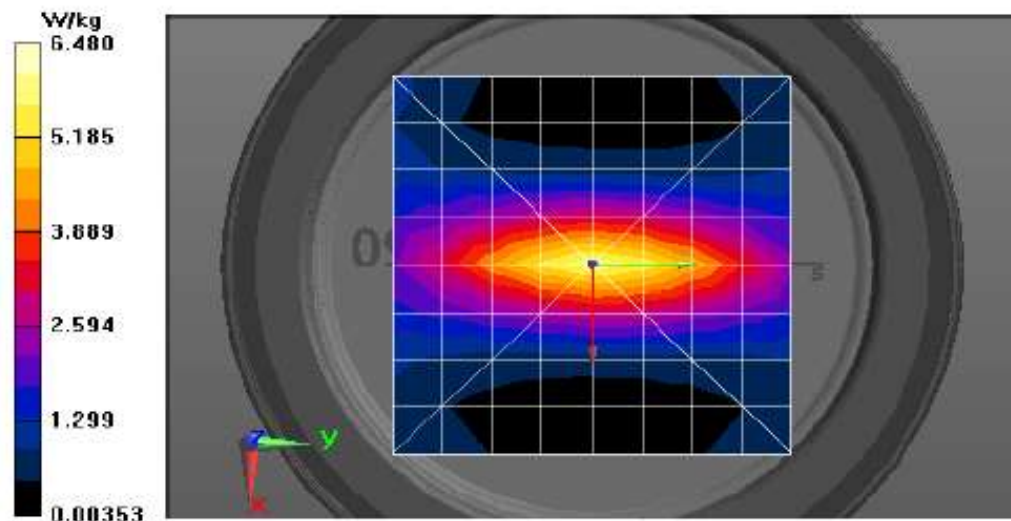
SAR(1 g) = 3.9 W/kg; SAR(10 g) = 2.5 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.76 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) = 6.48 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/7/2020 8:23:35 PM

Robot#: DASY5-FL-1 | Run#: ZZ-SYSP-150H-200707-02
 Dipole Model#: CLA150
 Phantom#: ELI4 1109
 Tissue Temp: 19.7 (C)
 Serial#: 4016
 Test Freq: 150.0000 (MHz)
 Start Power: 1000 (mW)
 Rotation (1D): 0.21 dB
 Adjusted SAR (1W): 3.84 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 150 \text{ MHz}$; $\sigma = 0.73 \text{ S/m}$; $\epsilon_r = 51.4$; $\rho = 1000 \text{ kg/m}^3$
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 150 MHz, ConvF(13.81, 13.81, 13.81) @ 150 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

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

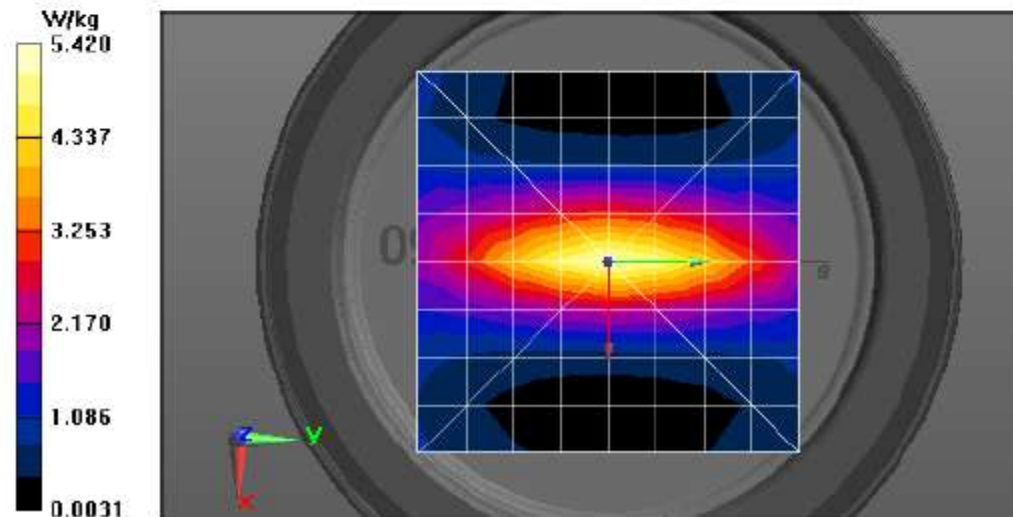
Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Reference Value = 85.53 V/m; Power Drift = 0.01 dB
 Fast SAR: SAR(1 g) = 4.6 W/kg; SAR(10 g) = 3.25 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 5.44 W/kg

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

Measurement grid: $dx=7.5 \text{ mm}$, $dy=7.5 \text{ mm}$, $dz=5 \text{ mm}$
 Reference Value = 85.53 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 6.68 W/kg
 SAR(1 g) = 3.84 W/kg; SAR(10 g) = 2.47 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 5.37 W/kg

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

grid: $dx=20 \text{ mm}$, $dy=20 \text{ mm}$, $dz=10 \text{ mm}$
 Maximum value of SAR (measured) = 5.42 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/19/2020 2:57:43 PM

Robot#: DASY5PGL-1 | Run#: ZR(AR)-SYSP-150H-200719-01
 Dipole Model#: CLA150
 Phantom#: ELI4 1109
 Tissue Temp: 20.1 (C)
 Serial#: 4016
 Test Freq: 150.0000 (MHz)
 Start Power: 1000 (mW)
 Rotation (1D): 0.15 dB
 Adjusted SAR (1W): 3.77 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 150$ MHz; $\sigma = 0.78$ S/m; $\epsilon_r = 52.9$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 150 MHz, ConvF(13.81, 13.81, 13.81) @ 150 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

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

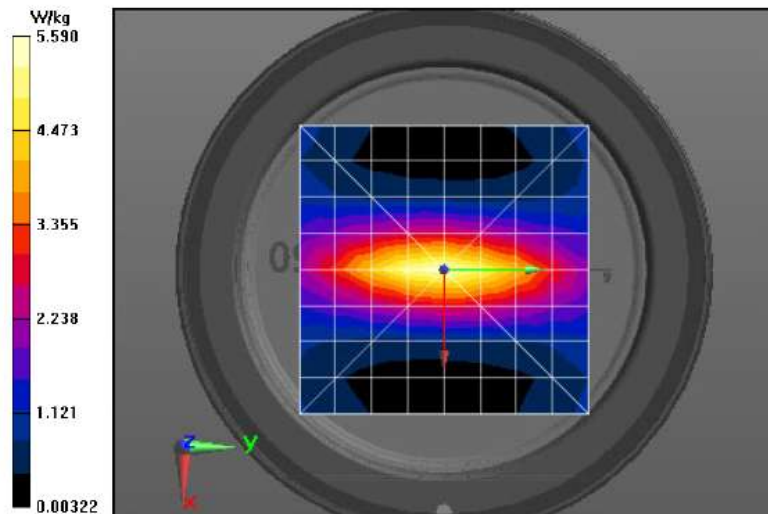
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 84.59 V/m; Power Drift = 0.02 dB
 Fast SAR: SAR(1 g) = 4.53 W/kg; SAR(10 g) = 3.21 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 5.59 W/kg

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 = 84.59 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 6.95 W/kg
 SAR(1 g) = 3.77 W/kg; SAR(10 g) = 2.41 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 = 56.4%
 Maximum value of SAR (measured) = 5.58 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) = 5.59 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/20/2020 3:34:33 PM

Robot#: DASY5-PG-1 | Run#: ZR(AR)-SYSP-150H-200720-08
 Dipole Model#: CLA150
 Phantom#: ELI4 1109
 Tissue Temp: 20.3 (C)
 Serial#: 4016
 Test Freq: 150.0000 (MHz)
 Start Power: 1000 (mW)
 Rotation (1D): 0.2 dB
 Adjusted SAR (1W): 3.76 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 150$ MHz; $\sigma = 0.78$ S/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 150 MHz, ConvF(13.81, 13.81, 13.81) @ 150 MHz

Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

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 = 84.83 V/m; Power Drift = -0.06 dB

Fast SAR: SAR(1 g) = 4.57 W/kg; SAR(10 g) = 3.22 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 5.67 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 = 84.83 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 7.00 W/kg

SAR(1 g) = 3.76 W/kg; SAR(10 g) = 2.4 W/kg (SAR corrected for target medium)

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

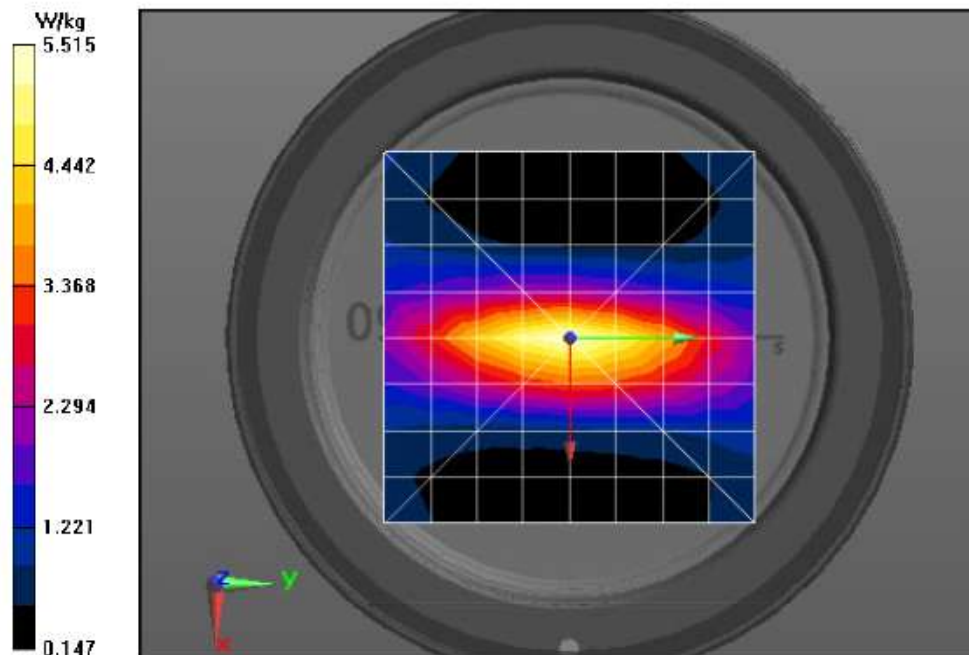
Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 5.61 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) = 5.60 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/23/2020 4:51:20 PM

Robot#: DASY5-PG-1 | Run#: ZR(AR)-SYSP-150H-200723-09
 Dipole Model#: CLA150
 Phantom#: ELI4 1109
 Tissue Temp: 20.9 (C)
 Serial#: 4016
 Test Freq: 150.0000 (MHz)
 Start Power: 1000 (mW)
 Rotation (1D): 0.2 dB
 Adjusted SAR (1W): 3.96 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 150$ MHz; $\sigma = 0.74$ S/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 150 MHz, ConvF(13.81, 13.81, 13.81) @ 150 MHz
 Electronics: DAE4 Sn684, Calibrated: 5/26/2020

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

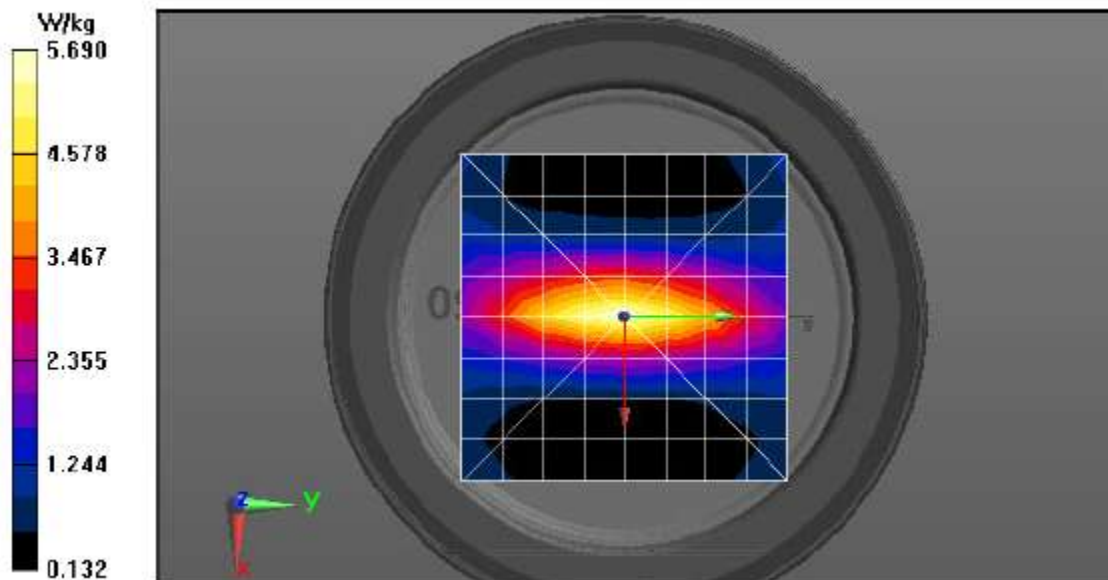
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 88.03 V/m; Power Drift = 0.08 dB
 Fast SAR: SAR(1 g) = 4.85 W/kg; SAR(10 g) = 3.42 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 5.82 W/kg

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 = 88.03 V/m; Power Drift = 0.08 dB
 Peak SAR (extrapolated) = 7.23 W/kg
 SAR(1 g) = 3.96 W/kg; SAR(10 g) = 2.52 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 = 55.5%
 Maximum value of SAR (measured) = 5.73 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) = 5.90 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/31/2020 1:51:29 PM

Robot#: DASY5-PG-1 | Run#: KKL-SYSP-150H-200731-01
 Dipole Model#: CLA150
 Phantom#: ELI4 1109
 Tissue Temp: 20.6 (C)
 Serial#: 4016
 Test Freq: 150.000 (MHz)
 Start Power: 1000 (mW)
 Rotation (1D): 0.16dB
 Adjusted SAR (1W): 4.00 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 150$ MHz; $\sigma = 0.78$ S/m; $\epsilon_r = 49.8$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 150 MHz, ConvF(13.81, 13.81, 13.81) @ 150 MHz
 Electronics: DAE4 Sn684, Calibrated: 5/26/2020

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 = 88.29 V/m; Power Drift = -0.10 dB

Fast SAR: SAR(1 g) = 4.87 W/kg; SAR(10 g) = 3.46 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 6.08 W/kg

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (9x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 6.03 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 = 88.29 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 7.54 W/kg

SAR(1 g) = 4 W/kg; SAR(10 g) = 2.57 W/kg (SAR corrected for target medium)

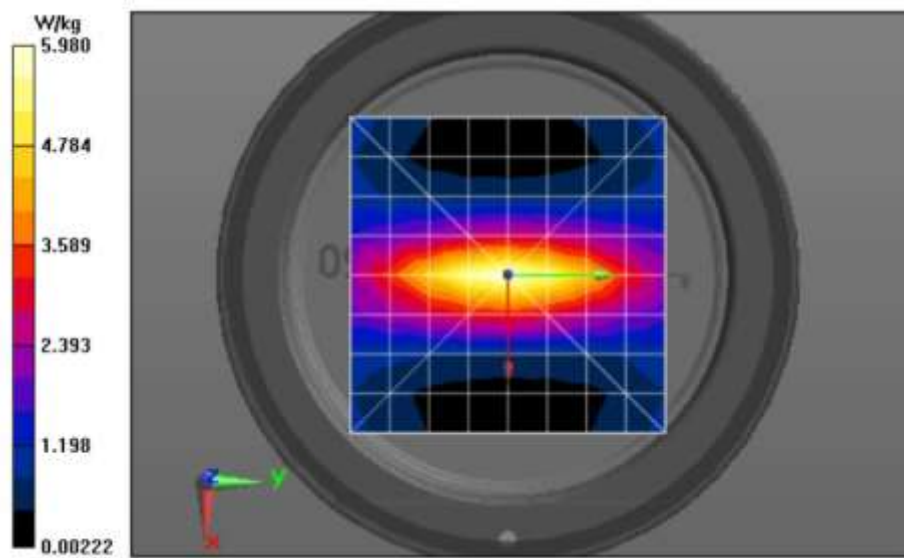
Smallest distance from peaks to all points 3 dB below = 15 mm

Ratio of SAR at M2 to SAR at M1 = 56.3%

Maximum value of SAR (measured) = 6.00 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) = 5.98 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 8/4/2020 3:42:21 PM

Robot#: DASY5-PG-4 | Run#: KKL-SYSP-150H-200804-01
 Dipole Model#: CLA150
 Phantom#: ELI4 1109
 Tissue Temp: 21.3 (C)
 Serial#: 4016
 Test Freq: 150.000 (MHz)
 Start Power: 1000 (mW)
 Rotation (1D): 0.071dB
 Adjusted SAR (1W): 3.78 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 150$ MHz; $\sigma = 0.78$ S/m; $\epsilon_r = 51.6$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7511, Calibrated: 10/24/2019, Frequency: 150 MHz, ConvF(12.15, 12.15, 12.15) @ 150 MHz
 Electronics: DAE4 Sn729, Calibrated: 10/16/2019

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 = 83.63 V/m; Power Drift = -0.02 dB
 Fast SAR: SAR(1 g) = 4.45 W/kg; SAR(10 g) = 3.16 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 5.50 W/kg

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (9x9x1): Measurement

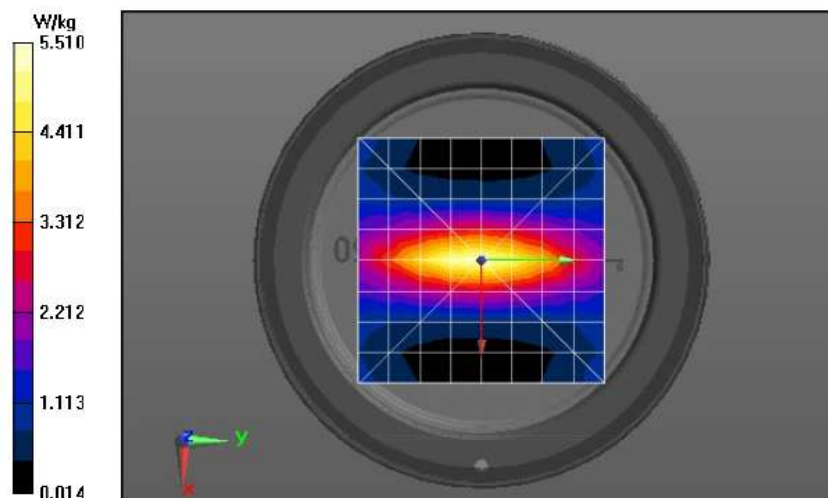
grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 5.46 W/kg

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 = 83.63 V/m; Power Drift = -0.02 dB
 Peak SAR (extrapolated) = 6.75 W/kg
 SAR(1 g) = 3.78 W/kg; SAR(10 g) = 2.45 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 = 58.6%
 Maximum value of SAR (measured) = 5.49 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) = 5.51 W/kg



Appendix E

DUT Scans

Assessments at the Body with Body worn PMLN6086A - Table 18

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/23/2020 5:36:43 PM

Robot#: DASY5-PG-1 | Run#: ZR(AR)-AB-200723-10
 Model#: AAH56JDN9PA3AN (PMUD3254A)
 Phantom#: ELI4 1109
 Tissue Temp: 21.1 (C)
 Serial#: 627TWK0669
 Antenna: PMAD4069C
 Test Freq: 160.0000 (MHz)
 Battery: NNTN8386A
 Carry Acc: PMLN6086A
 Audio Acc: PMMN4050A
 Start Power: 6.00 (W)

Comments: Shorten Scan

Duty Cycle: 1:1, Medium parameters used: $f = 160$ MHz; $\sigma = 0.75$ S/m; $\epsilon_r = 50.2$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 160 MHz, ConvF(13.81, 13.81, 13.81) @ 160 MHz

Electronics: DAE4 Sn684, Calibrated: 5/26/2020

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (101x241x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 62.26 V/m; Power Drift = -0.89 dB

Fast SAR: SAR(1 g) = 4.42 W/kg; SAR(10 g) = 2.64 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 6.09 W/kg

Below 2 GHz-Rev.3/Ab Scan/2-Volume 2D Scan (5x5x1): Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 62.26 V/m; Power Drift = -0.91 dB

Maximum value of SAR (measured) = 6.48 W/kg

Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (5x5x8)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=1.4mm

Reference Value = 100.4 V/m; Power Drift = -0.61 dB

Peak SAR (extrapolated) = 19.5 W/kg

SAR(1 g) = 3.59 W/kg; SAR(10 g) = 1.96 W/kg (SAR corrected for target medium)

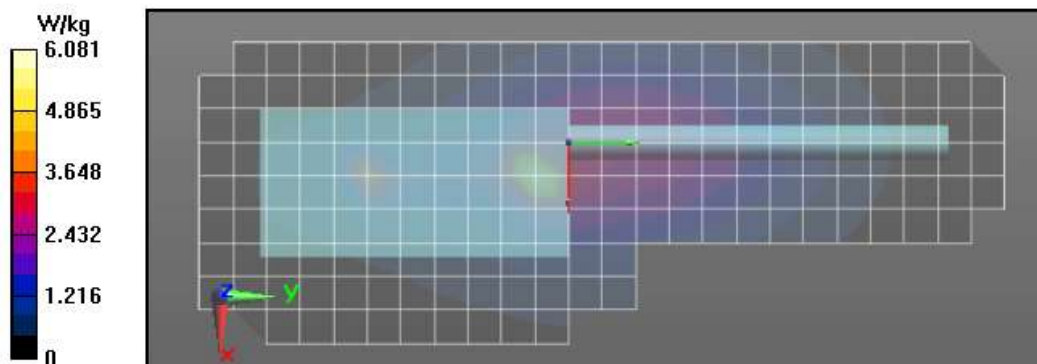
Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 54.7%

Maximum value of SAR (measured) = 7.15 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) = 6.55 W/kg



Assessments at the Body with Body worn PMLN6097A -Table 19

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/21/2020 9:43:50 AM

Robot#: DASY5-PG-1 | Run#: AM(AR)-AB-200721-08#
 Model#: AAH56JDN9PA3AN (PMUD3254A)
 Phantom#: ELI4 1103
 Tissue Temp: 20.1 (C)
 Serial#: 627TWK0669
 Antenna: PMAD4069C
 Test Freq: 160.0000 (MHz)
 Battery: NNTN8386A
 Carry Acc: PMLN6097A w/ PMLN5610A
 Audio Acc: PMMN4050A
 Start Power: 6.00 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 160$ MHz; $\sigma = 0.79$ S/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 160 MHz, ConvF(13.81, 13.81, 13.81) @ 160 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (101x271x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 32.36 V/m; Power Drift = -0.73 dB

Fast SAR: SAR(1 g) = 1.76 W/kg; SAR(10 g) = 1.1 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.32 W/kg

Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (5x5x8)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=1.4mm

Reference Value = 32.36 V/m; Power Drift = -0.83 dB

Peak SAR (extrapolated) = 6.10 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.598 W/kg (SAR corrected for target medium)

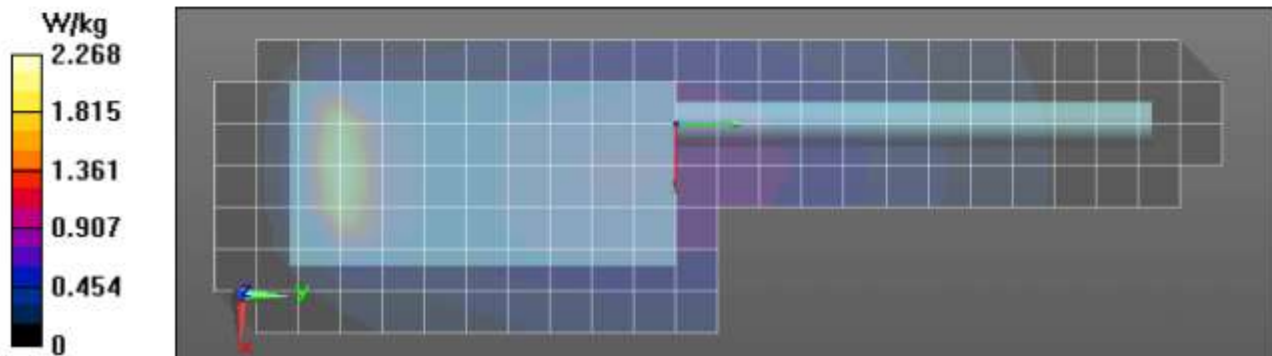
Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 53.1%

Maximum value of SAR (measured) = 2.10 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) = 2.52 W/kg



Assessments at the Body with Body worn PMLN6099A - Table 20

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/21/2020 1:55:56 PM

Robot#: DASY5-PG-1 | Run#: AM(AR)-AB-200721-12#
 Model#: AAH56JDN9PA3AN (PMUD3254A)
 Phantom#: ELI4 1103
 Tissue Temp: 21.1 (C)
 Serial#: 627TWK0669
 Antenna: PMAD4069C
 Test Freq: 160.0000 (MHz)
 Battery: NNTN8386A
 Carry Acc: PMLN6099A w/ PMLN5610A
 Audio Acc: PMMN4050A
 Start Power: 6.00 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 160$ MHz; $\sigma = 0.79$ S/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 160 MHz, ConvF(13.81, 13.81, 13.81) @ 160 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (101x271x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 32.84 V/m; Power Drift = -0.96 dB

Fast SAR: SAR(1 g) = 1.68 W/kg; SAR(10 g) = 1.03 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.35 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 = 32.84 V/m; Power Drift = -0.96 dB

Peak SAR (extrapolated) = 3.39 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.544 W/kg (SAR corrected for target medium)

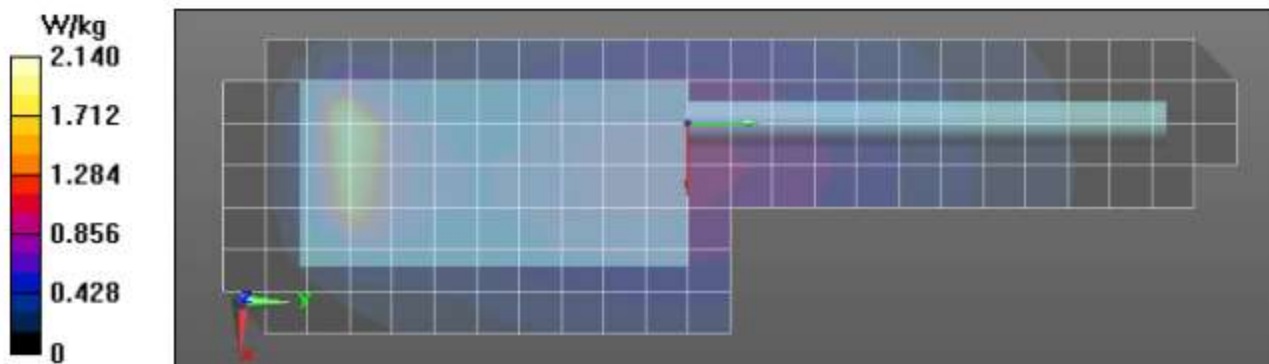
Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 31.7%

Maximum value of SAR (measured) = 2.04 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) = 1.99 W/kg



Assessment at the Face - Table 22

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/1/2020 7:51:02 PM

Robot#: DASY5-PG-1 | Run#: BL(AR)-FACE-200701-15
 Model#: AAH56JDN9PA3AN (PMUD3254A)
 Phantom#: ELI4 1109
 Tissue Temp: 20.5 (C)
 Serial#: 627TWK0669
 Antenna: PMAD4068C
 Test Freq: 160.0000 (MHz)
 Battery: NNTN8386A
 Carry Acc: @ front
 Audio Acc: None
 Start Power: 6.00 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 160$ MHz; $\sigma = 0.73$ S/m; $\epsilon_r = 50.2$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 160 MHz, ConvF(13.81, 13.81, 13.81) @ 160 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/Face Scan/1-Area Scan (101x281x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 50.94 V/m; Power Drift = -0.46 dB

Fast SAR: SAR(1 g) = 1.67 W/kg; SAR(10 g) = 1.29 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.93 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 = 50.94 V/m; Power Drift = -0.51 dB

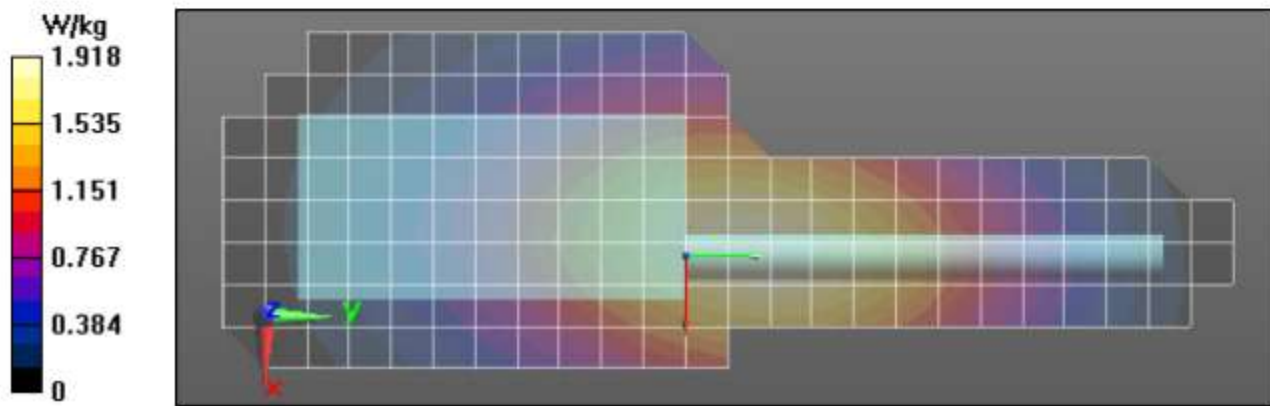
Peak SAR (extrapolated) = 2.13 W/kg

SAR(1 g) = 1.48 W/kg; SAR(10 g) = 1.14 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.83 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) = 1.69 W/kg



Body Assessment for ISED, Canada - Table 24

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/23/2020 5:36:43 PM

Robot#: DASY5-PG-1 | Run#: ZR(AR)-AB-200723-10
 Model#: AAH56JDN9PA3AN (PMUD3254A)
 Phantom#: ELI4 1109
 Tissue Temp: 21.1 (C)
 Serial#: 627TWK0669
 Antenna: PMAD4069C
 Test Freq: 160.0000 (MHz)
 Battery: NNTN8386A
 Carry Acc: PMLN6086A
 Audio Acc: PMMN4050A
 Start Power: 6.00 (W)

Comments: Shorten Scan

Duty Cycle: 1:1, Medium parameters used: $f = 160$ MHz; $\sigma = 0.75$ S/m; $\epsilon_r = 50.2$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 160 MHz, ConvF(13.81, 13.81, 13.81) @ 160 MHz
 Electronics: DAE4 Sn684, Calibrated: 5/26/2020

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (101x241x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 62.26 V/m; Power Drift = -0.89 dB

Fast SAR: SAR(1 g) = 4.42 W/kg; SAR(10 g) = 2.64 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 6.09 W/kg

Below 2 GHz-Rev.3/Ab Scan/2-Volume 2D Scan (5x5x1): Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 62.26 V/m; Power Drift = -0.91 dB

Maximum value of SAR (measured) = 6.48 W/kg

Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (5x5x8)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=1.4mm

Reference Value = 100.4 V/m; Power Drift = -0.61 dB

Peak SAR (extrapolated) = 19.5 W/kg

SAR(1 g) = 3.59 W/kg; SAR(10 g) = 1.96 W/kg (SAR corrected for target medium)

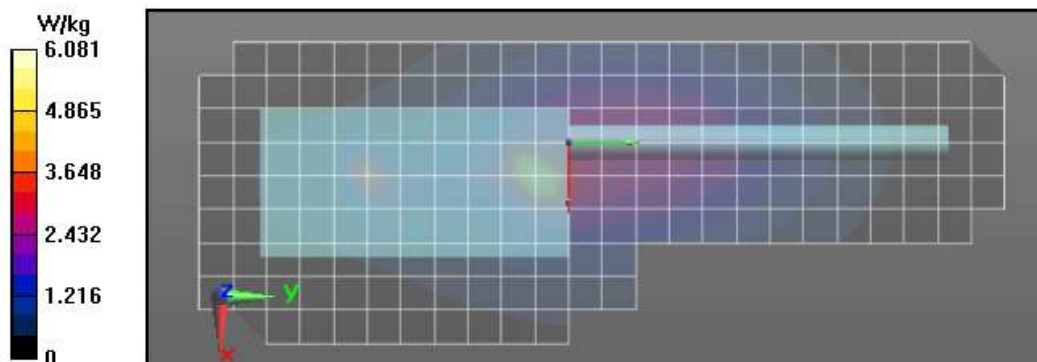
Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 54.7%

Maximum value of SAR (measured) = 7.15 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) = 6.55 W/kg



Face Assessment for ISED, Canada - Table 24

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/2/2020 2:59:47 PM

Robot#: DASY5-PG-1 | Run#: ZZ-FACE-200702-12
 Model#: AAH56JDN9PA3AN (PMUD3254A)
 Phantom#: ELI4 1109
 Tissue Temp: 20.6 (C)
 Serial#: 627TWK0669
 Antenna: PMAD4067C
 Test Freq: 138.0000(MHz)
 Battery: NNTN8386A
 Carry Acc: @ front
 Audio Acc: None
 Start Power: 5.95 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 138$ MHz; $\sigma = 0.77$ S/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 138 MHz, ConvF(13.81, 13.81, 13.81) @ 138 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/Face Scan/1-Area Scan (101x281x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 57.67 V/m; Power Drift = -0.49 dB

Fast SAR: SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.68 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.55 W/kg

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

Reference Value = 57.67 V/m; Power Drift = -0.57 dB

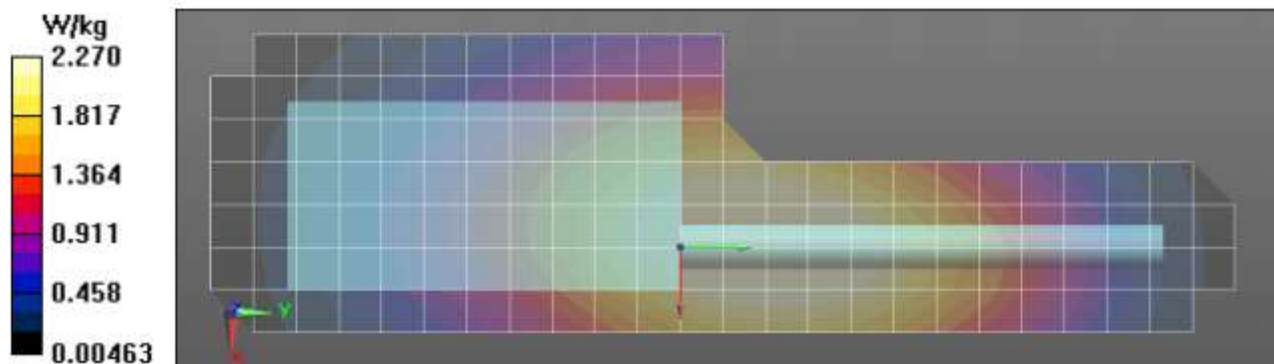
Peak SAR (extrapolated) = 2.81 W/kg

SAR(1 g) = 1.91 W/kg; SAR(10 g) = 1.49 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.42 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) = 2.27 W/kg



APPENDIX F

Shortened Scan of Highest SAR configuration

Shortened Scan - Table 25

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/31/2020 5:45:04 PM

Robot#: DASY5-PG-1 | Run#: KKL-AB-200731-02
 Model#: AAH56JDN9PA3AN (PMUD3254A)
 Phantom#: ELI4 1109
 Tissue Temp: 21.3 (C)
 Serial#: 627TWK0669
 Antenna: PMAD4069C
 Test Freq: 160.0000 (MHz)
 Battery: NNTN8386A
 Carry Acc: PMLN6086A
 Audio Acc: PMMN4050A
 Start Power: 6.00 (W)

Comments: Shorten Scan

Duty Cycle: 1:1, Medium parameters used: $f = 160$ MHz; $\sigma = 0.78$ S/m; $\epsilon_r = 49.3$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 160 MHz, ConvF(13.81, 13.81, 13.81) @ 160 MHz
 Electronics: DAE4 Sn684, Calibrated: 5/26/2020

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (71x221x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 59.15 V/m; Power Drift = -0.75 dB

Fast SAR: SAR(1 g) = 3.86 W/kg; SAR(10 g) = 2.62 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 4.91 W/kg

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (8x23x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 4.76 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 = 59.15 V/m; Power Drift = -0.77 dB

Fast SAR: SAR(1 g) = 4.84 W/kg; SAR(10 g) = 2.7 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 6.96 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) = 7.18 W/kg

Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (5x5x8)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=1.4mm

Reference Value = 99.46 V/m; Power Drift = -0.78 dB

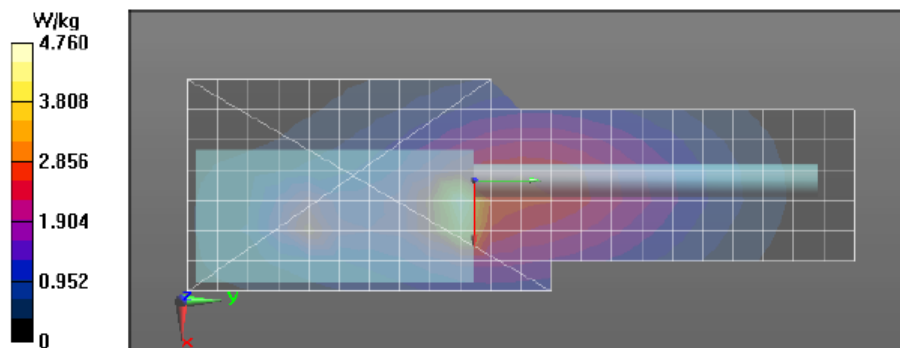
Peak SAR (extrapolated) = 18.0 W/kg

SAR(1 g) = 3.69 W/kg; SAR(10 g) = 2.01 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 57.4%

Maximum value of SAR (measured) = 7.25 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)	25	9	2.21
Full scan (area & zoom)	18	30	2.07

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