

**MOTOROLA SOLUTIONS**
MS ISO/IEC 17025
TESTING
SAMM No.0826
DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2
Motorola Solutions Inc.
EME Test Laboratory

 Motorola Solutions Malaysia Sdn Bhd (Innoplex)
 Plot 2A, Medan Bayan Lepas,
 Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.

Date of Report: 8/3/2018
Report Revision: A

Responsible Engineer: Lee Kin Kting
Report Author: Lee Kin Kting
Date/s Tested: 7/3/2018 - 7/6//2018, 7/9/2018-7/10/2018 & 7/17/2018, 7/30/2018-8/1/2018
Manufacturer: Motorola Solutions Inc.
DUT Description: Handheld Portable T800 FRS Consumer Radio 462-467 MHz Blue
Test TX mode(s): CW (PTT) & BT
Max. Power output: 2.00 W (462.5500 – 462.7250 MHz), 0.60 W (467.5625- 467.7125MHz)
 2.51 mW (2402-2480MHz)
Nominal Power: 1.80 W (462.5500 – 462.7250 MHz), 0.50 W (467.5625– 467.7125MHz)
 2.34 mW (2402-2480MHz)
Tx Frequency Bands: 462.5500 – 462.7250 MHz, 467.5625- 467.7125MHz, 2402-2480MHz
Signaling type: FM, GFSK (Bluetooth)
Model(s) Tested: T800 (PMUE5381A)
Model(s) Certified: T800 (PMUE5381A), T801 (PMUE5446A)
Serial Number(s): 1751UL8544, 1751UL6476
Classification: General Population / Uncontrolled Environment
FCC ID: AZ489FT4947
IC: 109U-89FT4947
ISED Test Site registration: 109AK
FCC Test Firm Registration Number: 823256

The test results clearly demonstrate compliance with General Population / Uncontrolled Environment RF Exposure limits of 1.6 W/kg averaged over 1 gram per the requirements of FCC 47 CFR § 2.1093 and ISED 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. 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
Tiong Nguk Ing
Deputy Technical Manager (Approved Signatory)
Approval Date: 8/9/2018

 Digitally signed
 by Tiong Nguk
 Ing
 Date:
 2018.08.09
 09:47:57 +08'00'

Appendix E

System Verification Check Scans

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/3/2018 9:24:00 PM

Robot#: DASY5-PG-3 | Run#: AN-SYSP-450B-180703-01
 Dipole Model# D450V3
 Phantom#: ELI5 1147
 Tissue Temp: 20.4 (C)
 Serial#: 1054
 Test Freq: 450.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.034 dB
 Adjusted SAR (1W): 4.72 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7486, Frequency: 450 MHz, ConvF(11.68, 11.68, 11.68); Calibrated: 3/20/2018

Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

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

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

Reference Value = 40.28 V/m; Power Drift = -0.03 dB

Fast SAR: SAR(1 g) = 1.23 W/kg; SAR(10 g) = 0.850 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.50 W/kg

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

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

Reference Value = 40.28 V/m; Power Drift = -0.03 dB

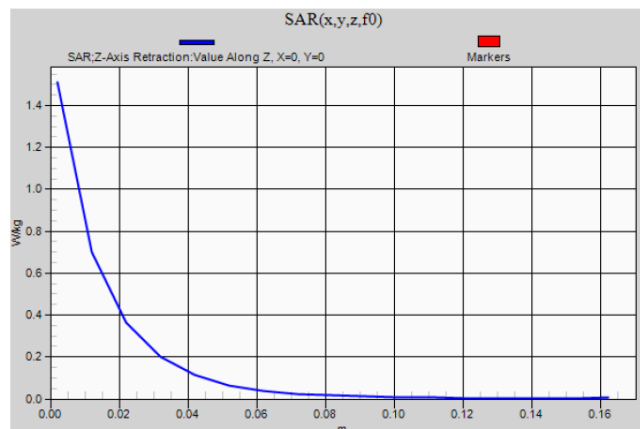
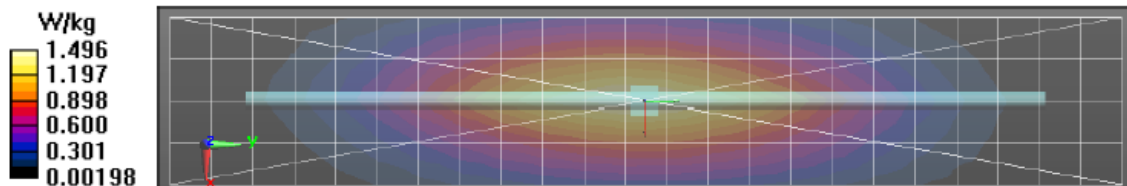
Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.796 W/kg (SAR corrected for target medium)

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

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

Maximum value of SAR (measured) = 1.51 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/4/2018 10:14:18 PM

Robot#: DASY5-PG-3 | Run#: AN-SYSP-450B-180704-14
 Dipole Model# D450V3
 Phantom#: ELI5 1147
 Tissue Temp: 21.9 (C)
 Serial#: 1054
 Test Freq: 450.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.032 dB
 Adjusted SAR (1W): 4.60 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 54$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7486, Frequency: 450 MHz, ConvF(11.68, 11.68, 11.68); Calibrated: 3/20/2018

Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

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

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

Reference Value = 39.86 V/m; Power Drift = -0.01 dB

Fast SAR: SAR(1 g) = 1.2 W/kg; SAR(10 g) = 0.836 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.48 W/kg

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

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

Reference Value = 39.86 V/m; Power Drift = -0.01 dB

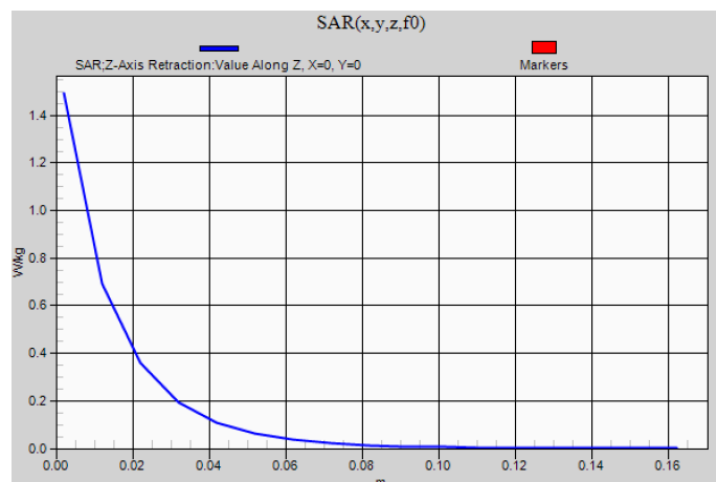
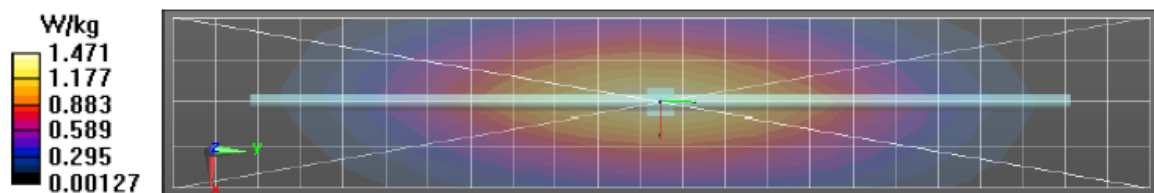
Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.777 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.49 W/kg

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

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



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/5/2018 10:32:35 PM

Robot#: DASY5-PG-3 | Run#: AN-SYSP-450B-180705-17
 Dipole Model#: D450V3
 Phantom#: ELI5 1147
 Tissue Temp: 21.4 (C)
 Serial#: 1054
 Test Freq: 450.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.030 dB
 Adjusted SAR (1W): 4.72 mW/g (1g)

Comments:

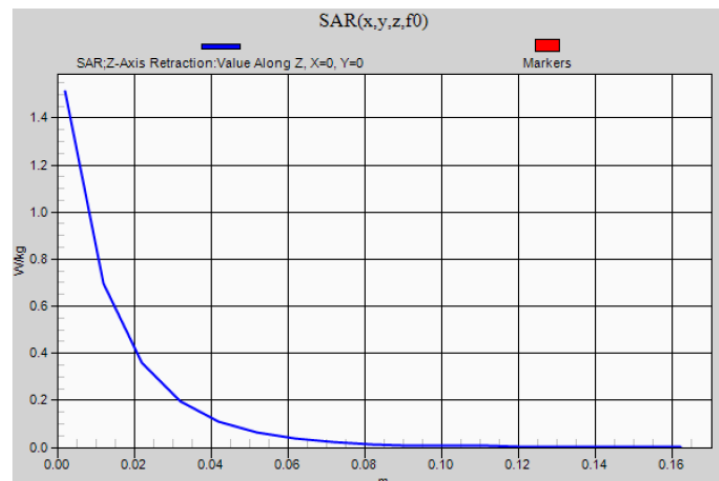
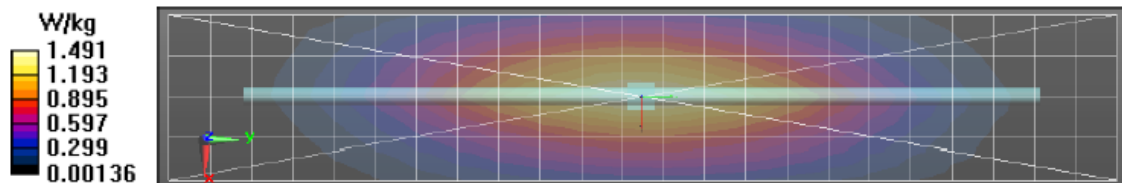
Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 54$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7486, Frequency: 450 MHz, ConvF(11.68, 11.68, 11.68); Calibrated: 3/20/2018
 Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

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

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 40.50 V/m; Power Drift = -0.03 dB
 Fast SAR: SAR(1 g) = 1.23 W/kg; SAR(10 g) = 0.855 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 1.50 W/kg

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

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 40.50 V/m; Power Drift = -0.03 dB
 Peak SAR (extrapolated) = 1.80 W/kg
 SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.795 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 1.51 W/kg

Below 2 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/9/2018 8:04:43 AM

Robot#: DASY5-PG-3 | Run#: AN-SYSP-450B-180709-01
 Dipole Model# D450V3
 Phantom#: ELI5 1147
 Tissue Temp: 21.5 (C)
 Serial#: 1054
 Test Freq: 450.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.027 dB
 Adjusted SAR (1W): 4.72 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7486, Frequency: 450 MHz, ConvF(11.68, 11.68, 11.68); Calibrated: 3/20/2018

Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

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

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

Reference Value = 40.60 V/m; Power Drift = -0.05 dB

Fast SAR: SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.862 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.52 W/kg

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

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

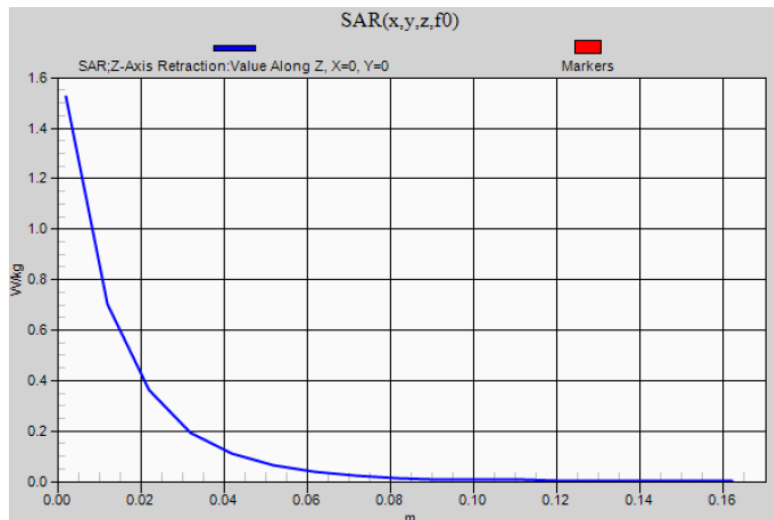
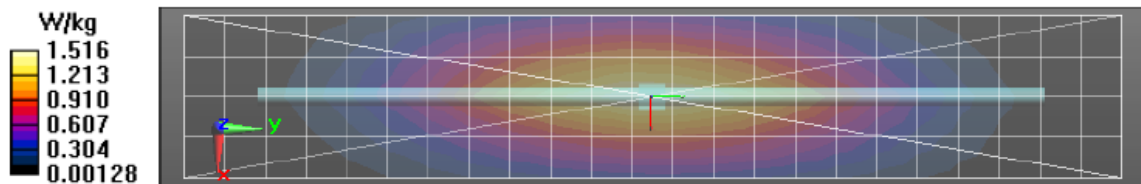
Reference Value = 40.60 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.796 W/kg (SAR corrected for target medium)

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

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



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/10/2018 8:12:37 AM

Robot#: DASY5-PG-3 | Run#: AN-SYSP-450B-180710-06
 Dipole Model# D450V3
 Phantom#: ELI5 1147
 Tissue Temp: 22.2 (C)
 Serial#: 1054
 Test Freq: 450.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.032 dB
 Adjusted SAR (1W): 4.64 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.97$ S/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7486, Frequency: 450 MHz, ConvF(11.68, 11.68, 11.68); Calibrated: 3/20/2018
 Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

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

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

Reference Value = 39.85 V/m; Power Drift = 0.01 dB

Fast SAR: SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.843 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.52 W/kg

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

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

Reference Value = 39.85 V/m; Power Drift = 0.01 dB

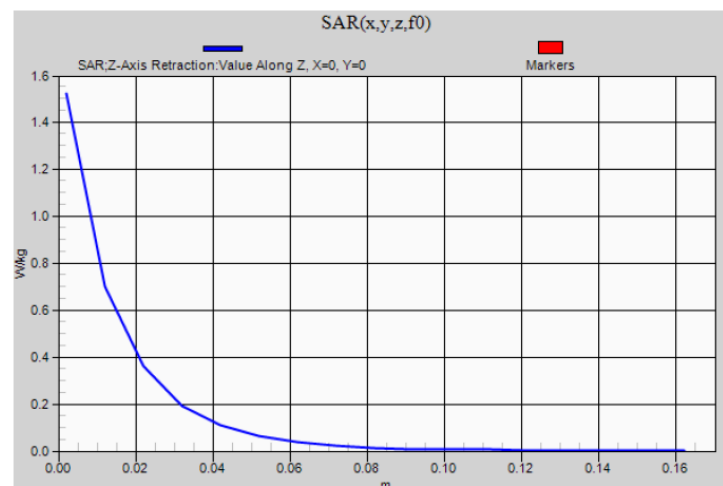
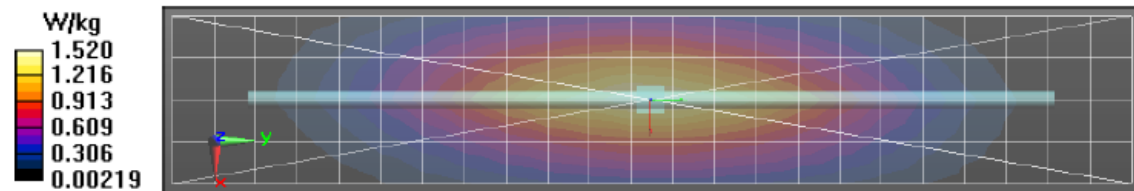
Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.780 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.52 W/kg

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

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



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/10/2018 2:13:47 PM

Robot#: DASY5-PG-3 | Run#: AN-SYSP-450H-180710-11
 Dipole Model# D450V3
 Phantom#: ELI4 1016
 Tissue Temp: 22.2 (C)
 Serial#: 1054
 Test Freq: 450.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.051 dB
 Adjusted SAR (1W): 4.56 mW/g (1g)

Comments:

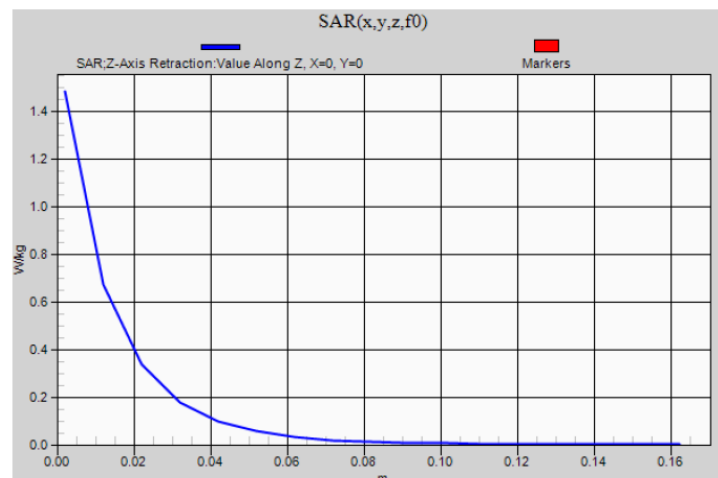
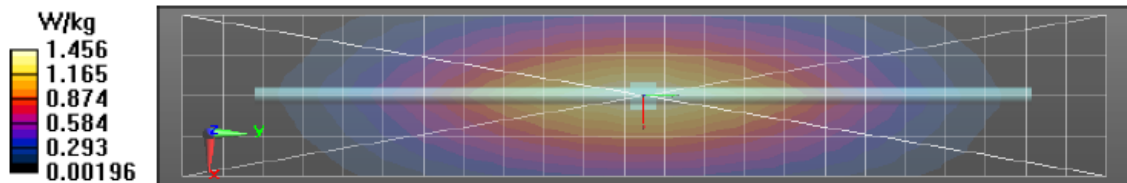
Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7486, Frequency: 450 MHz, ConvF(11.43, 11.43, 11.43); Calibrated: 3/20/2018
 Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

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

Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 41.36 V/m; Power Drift = -0.04 dB
 Fast SAR: SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.822 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 1.47 W/kg

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 41.36 V/m; Power Drift = -0.04 dB
 Peak SAR (extrapolated) = 1.77 W/kg
 SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.760 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 1.48 W/kg

Below 2 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/17/2018 4:30:51 PM

Robot#: DASY5-PG-3 | Run#: FD-SYSP-450B-180717-09
 Dipole Model#: D450V3
 Phantom#: ELI5 1147
 Tissue Temp: 20.8 (C)
 Serial#: 1054
 Test Freq: 450.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.039 dB
 Adjusted SAR (1W): 4.68 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7486, Frequency: 450 MHz, ConvF(11.68, 11.68, 11.68); Calibrated: 3/20/2018

Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

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

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

Reference Value = 40.23 V/m; Power Drift = -0.03 dB

Fast SAR: SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.845 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.50 W/kg

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

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

Reference Value = 40.23 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.80 W/kg

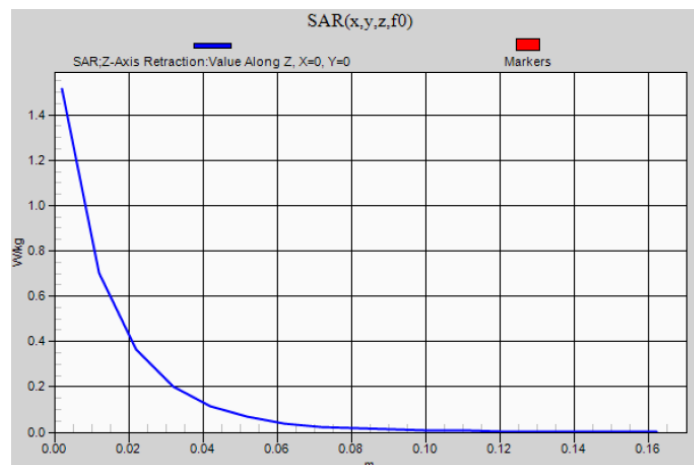
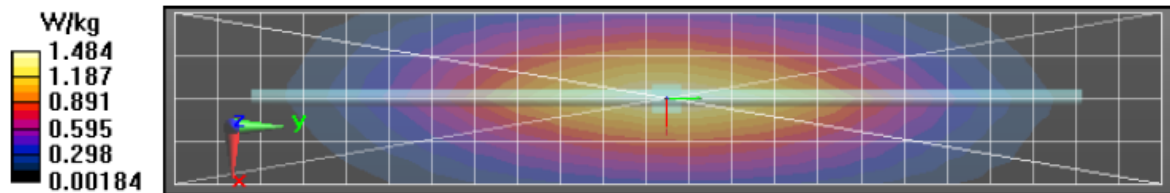
SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.791 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.50 W/kg

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

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

Maximum value of SAR (measured) = 1.51 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/30/2018 9:52:08 PM

Robot#: DASY5-PG-3 | Run#: AN-SYSP-2450B-180730-08
 Dipole Model#: D2450V2
 Phantom#: ELI4 1090
 Tissue Temp: 21.3 (C)
 Serial#: 782
 Test Freq: 2450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.053 dB
 Adjusted SAR (1W): 52.00 mW/g (1g)

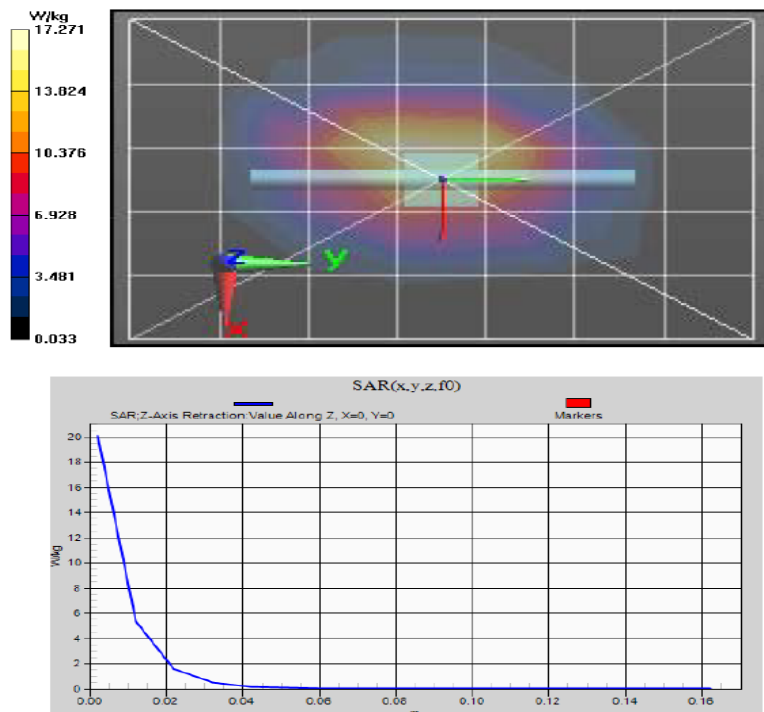
Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ S/m; $\epsilon_r = 48.8$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7486, Frequency: 2450 MHz, ConvF(7.77, 7.77, 7.77); Calibrated: 3/20/2018
 Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

2-3 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (51x71x1): Interpolated grid:
 $dx=1.200$ mm, $dy=1.200$ mm
 Reference Value = 102.6 V/m; Power Drift = -0.01 dB
 Fast SAR: SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.07 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 21.7 W/kg

2-3 GHz-Rev.2/System Performance Check/0-Degree Cube (7x7x7)/Cube 0: Measurement
 grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
 Reference Value = 102.6 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 26.7 W/kg
 SAR(1 g) = 13 W/kg; SAR(10 g) = 6.12 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 20.0 W/kg

2-3 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
 $dx=20$ mm, $dy=20$ mm, $dz=10$ mm
 Maximum value of SAR (measured) = 20.1 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 8/1/2018 7:55:38 AM

Robot#: DASY5-PG-3 | Run#: FD-SYSP-2450B-180801-03
Dipole Model#: D2450V2
Phantom#: ELI4 1090
Tissue Temp: 21.1 (C)
Serial#: 782
Test Freq: 2450.0000 (MHz)
Start Power: 250 (mW)
Rotation (1D): 0.058 dB
Adjusted SAR (1W): 51.60 mW/g (1g)

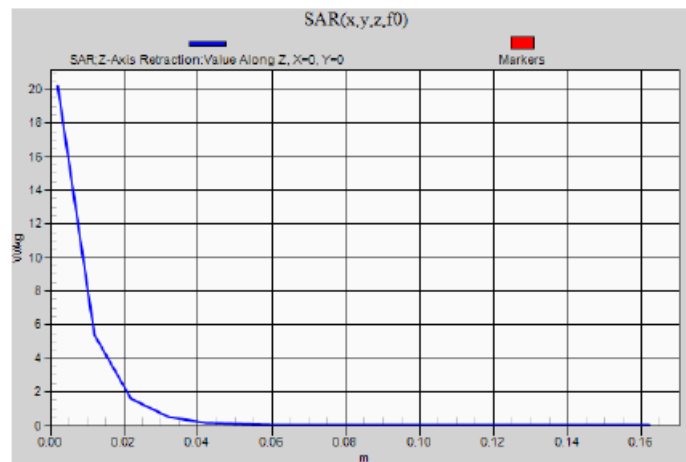
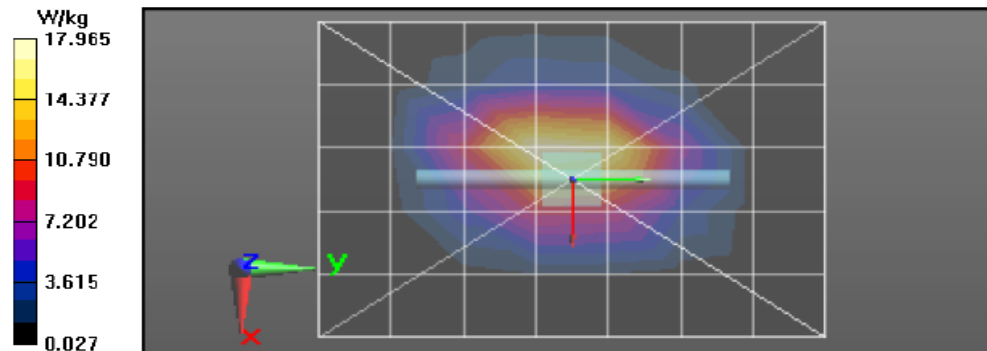
Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 2450$ MHz; $\sigma = 1.98$ S/m; $\epsilon_r = 48.5$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN7486, Frequency: 2450 MHz, ConvF(7.77, 7.77, 7.77); Calibrated: 3/20/2018
Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

2-3 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (51x71x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm
Reference Value = 102.6 V/m; Power Drift = -0.09 dB
Fast SAR: SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.08 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 21.8 W/kg

2-3 GHz-Rev.2/System Performance Check/0-Degree Cube (7x7x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 102.6 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 26.8 W/kg
SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.1 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 20.1 W/kg

2-3 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 20.2 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/31/2018 2:47:51 AM

Robot#: DASY5-PG-3 | Run#: AN-SYSP-2450H-180731-04#
 Dipole Model#: D2450V2
 Phantom#: ELI4 1011
 Tissue Temp: 21.4 (C)
 Serial#: 782
 Test Freq: 2450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.055 dB
 Adjusted SAR (1W): 51.60 mW/g (1g)

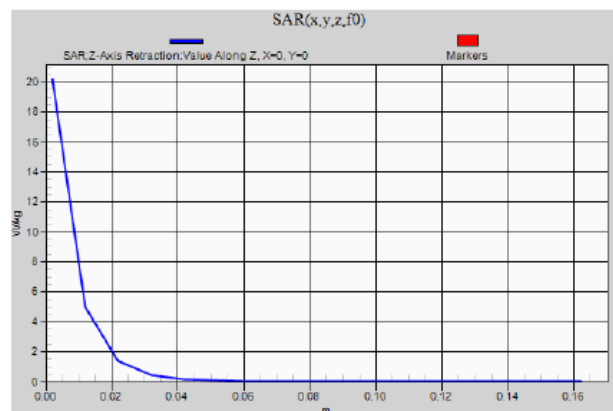
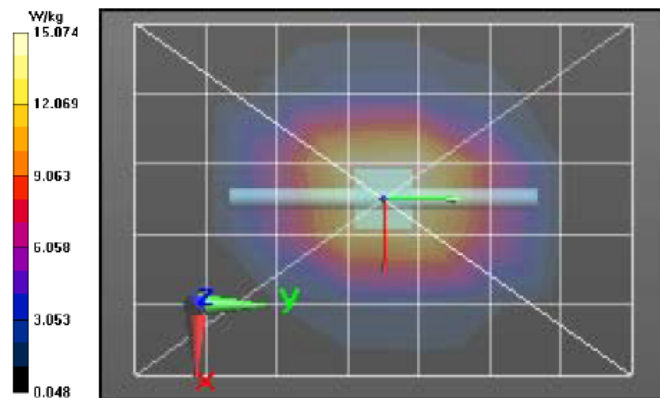
Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 2450$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 35.9$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7486, Frequency: 2450 MHz, ConvF(7.72, 7.72, 7.72); Calibrated: 3/20/2018
 Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

2-3 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (51x71x1): Interpolated grid:
 dx=1.200 mm, dy=1.200 mm
 Reference Value = 107.5 V/m; Power Drift = -0.12 dB
Fast SAR: SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.33 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 21.8 W/kg

2-3 GHz-Rev.2/System Performance Check/0-Degree Cube (7x7x7)/Cube 0: Measurement
 grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 107.5 V/m; Power Drift = -0.12 dB
 Peak SAR (extrapolated) = 26.7 W/kg
SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.08 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 20.0 W/kg

2-3 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
 dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 20.2 W/kg



Appendix F

DUT Scans

Assessment at the Body with Body worn PMLN7957A for band (462.5500 – 462.7250MHz)**Table 18****Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/5/2018 10:14:58 AM

Robot#: DASY5-PG-3 | Run#: FD-AB-180705-06#
 Model#: PMUE5381A
 Phantom#: ELI5 1147
 Tissue Temp: 21.5 (C)
 Serial#: 1751UL8544
 Antenna: Fixed Antenn
 Test Freq: 462.6375 (MHz)
 Battery: KEBT-1300
 Carry Acc: PMLN7957A
 Audio Acc: NTN8867A (53724C)
 Start Power: 1.32 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 463$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7486, Frequency: 462.637 MHz, ConvF(11.68, 11.68, 11.68); Calibrated: 3/20/2018
 Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

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

Reference Value = 45.62 V/m; Power Drift = -0.60 dB

Fast SAR: SAR(1 g) = 1.86 W/kg; SAR(10 g) = 1.33 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.21 W/kg

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

Reference Value = 45.62 V/m; Power Drift = -0.77 dB

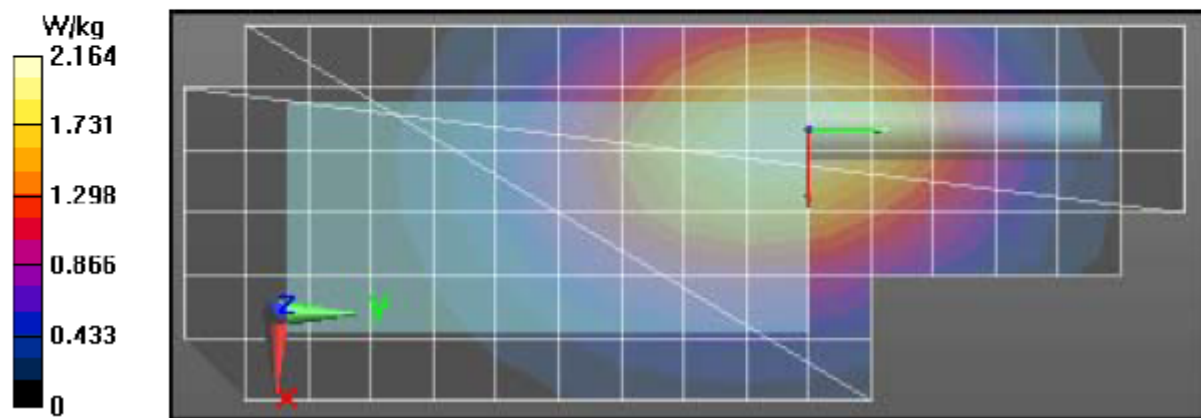
Peak SAR (extrapolated) = 2.41 W/kg

SAR(1 g) = 1.73 W/kg; SAR(10 g) = 1.25 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.09 W/kg

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

Maximum value of SAR (measured) = 2.03 W/kg



Assessment at the Body with Body worn PMLN7706A for band (462.5500 – 462.7250MHz)**Table 19****Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/4/2018 2:44:29 PM

Robot#: DASY5-PG-3 | Run#: FD-AB-180704-08#
 Model#: PMUE5381A
 Phantom#: ELI5 1147
 Tissue Temp: 22.1 (C)
 Serial#: 1751UL8544
 Antenna: Fixed Antenna
 Test Freq: 462.6375 (MHz)
 Battery: KEBT-1300
 Carry Acc: PMLN7706A
 Audio Acc: NTN8867A (53724C)
 Start Power: 1.32 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 463 \text{ MHz}$; $\sigma = 0.96 \text{ S/m}$; $\epsilon_r = 54.2$; $\rho = 1000 \text{ kg/m}^3$
 Probe: EX3DV4 - SN7486, , Frequency: 462.637 MHz, ConvF(11.68, 11.68, 11.68); Calibrated: 3/20/2018
 Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

Below 2 GHz-Rev.2/Ab Scan/1-Area Scan (61x161x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ m}$

Reference Value = 44.13 V/m; Power Drift = -0.55 dB

Fast SAR: SAR(1 g) = 1.8 W/kg; SAR(10 g) = 1.28 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.15 W/kg

Below 2 GHz-Rev.2/Ab 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 = 44.13 V/m; Power Drift = -0.69 dB

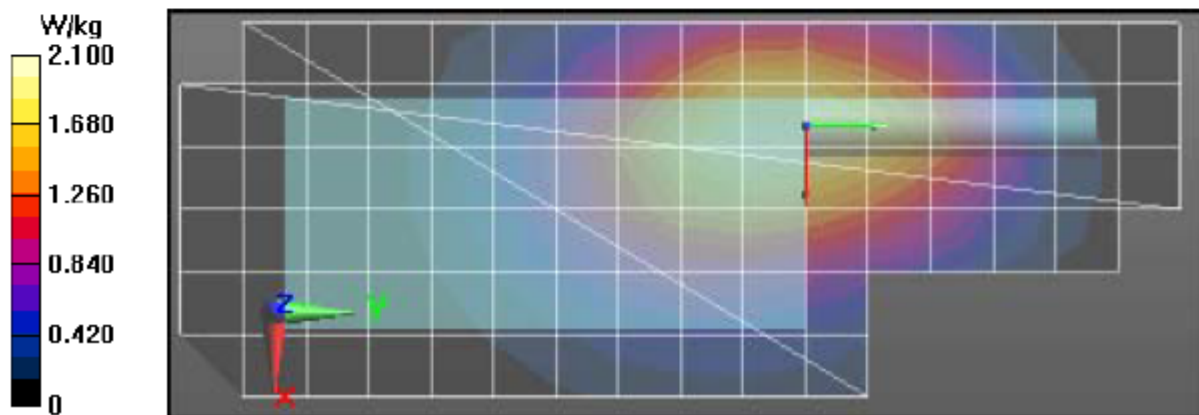
Peak SAR (extrapolated) = 2.37 W/kg

SAR(1 g) = 1.66 W/kg; SAR(10 g) = 1.17 W/kg (SAR corrected for target medium)

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

Below 2 GHz-Rev.2/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) = 1.99 W/kg



Assessment at the Body with other audio accessories for band (462.5500 – 462.7250MHz)**Table 20****Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/5/2018 11:25:59 AM

Robot#: DASY5-PG-3 | Run#: FD-AB-180705-08#
 Model#: PMUE5381A
 Phantom#: ELI5 1147
 Tissue Temp: 21.6 (C)
 Serial#: 1751UL8544
 Antenna: Fixed Antenna
 Test Freq: 462.6375 (MHz)
 Battery: KEBT-1300
 Carry Acc: PMLN7957A
 Audio Acc: NTN8868C (53725C)
 Start Power: 1.32 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 463$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7486, , Frequency: 462.637 MHz, ConvF(11.68, 11.68, 11.68); Calibrated: 3/20/2018
 Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

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

Reference Value = 43.83 V/m; Power Drift = -0.44 dB

Fast SAR: SAR(1 g) = 1.73 W/kg; SAR(10 g) = 1.24 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.06 W/kg

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

Reference Value = 43.83 V/m; Power Drift = -0.53 dB

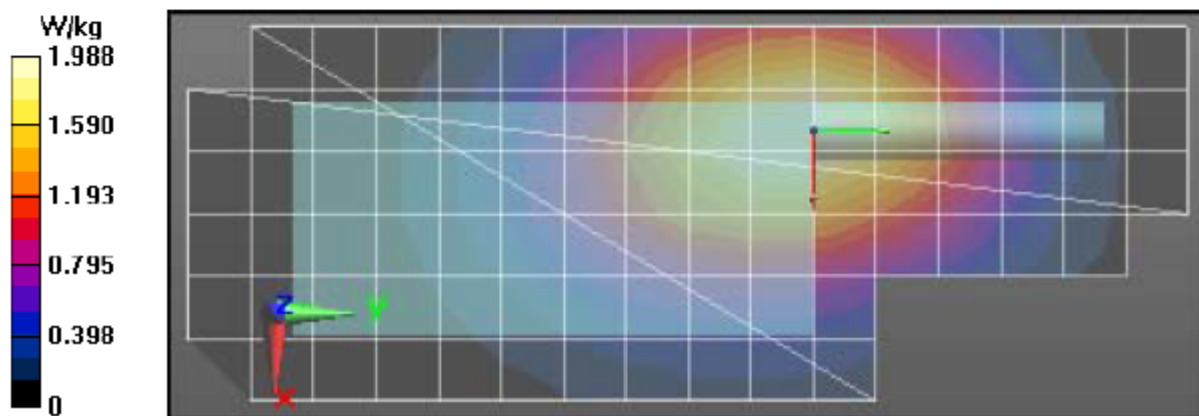
Peak SAR (extrapolated) = 2.33 W/kg

SAR(1 g) = 1.67 W/kg; SAR(10 g) = 1.2 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.02 W/kg

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

Maximum value of SAR (measured) = 1.98 W/kg



Assessments at the Face for band (462.5500 – 462.7250MHz)
Table 22

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/10/2018 8:16:13 PM

Robot#: DASY5-PG-3 | Run#: BL(FD)-FACE-180710-16
 Model#: PMUE5381A
 Phantom#: ELI4 1016
 Tissue Temp: 21.8 (C)
 Serial#: 1751UL8544
 Antenna: Fixed Antenna
 Test Freq: 462.6375 (MHz)
 Battery: KEBT-1300
 Carry Acc: Radio at front
 Audio Acc: None
 Start Power: 1.32 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 463 \text{ MHz}$; $\sigma = 0.9 \text{ S/m}$; $\epsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$
 Probe: EX3DV4 - SN7486, , Frequency: 462.637 MHz, ConvF(11.43, 11.43, 11.43); Calibrated: 3/20/2018
 Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

Below 2 GHz-Rev.2/Face Scan/1-Area Scan (61x161x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 39.32 V/m; Power Drift = -0.58 dB

Fast SAR: SAR(1 g) = 1.36 W/kg; SAR(10 g) = 0.989 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.62 W/kg

Below 2 GHz-Rev.2/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 = 39.32 V/m; Power Drift = -0.65 dB

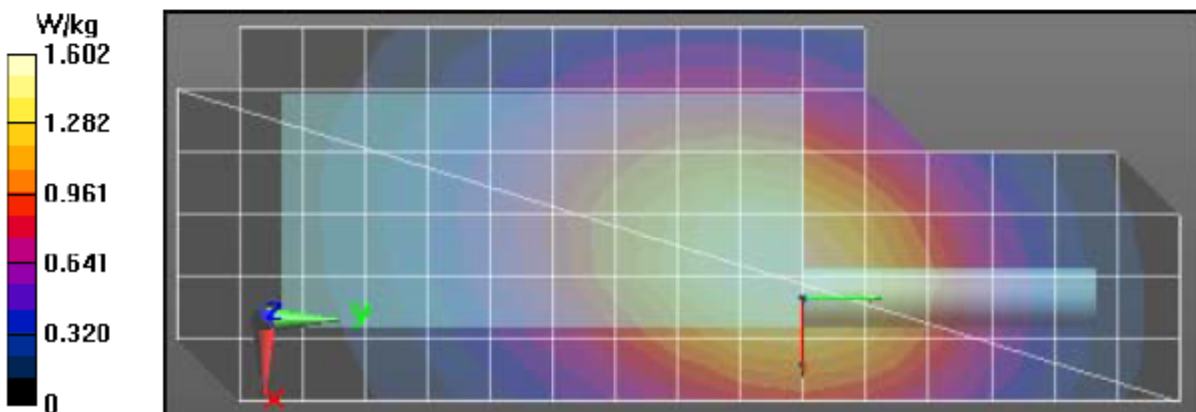
Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 1.27 W/kg; SAR(10 g) = 0.929 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.51 W/kg

Below 2 GHz-Rev.2/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) = 1.50 W/kg



Assessment at the Body with Body worn PMLN7957A for band (467.5625-467.7125 MHz)**Table 24****Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/17/2018 6:24:42 PM

Robot#: DASY5-PG-3 | Run#: FD-AB-180717-12
 Model#: PMUE5381A
 Phantom#: ELI5 1147
 Tissue Temp: 21.5 (C)
 Serial#: 1751UL8544
 Antenna: Fixed Antenna
 Test Freq: 467.6375 (MHz)
 Battery: PMNN4477A
 Carry Acc: PMLN7957A
 Audio Acc: NTN8867A (53724C)
 Start Power: 0.545 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 468$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7486, Frequency: 467.637 MHz, ConvF(11.68, 11.68, 11.68); Calibrated: 3/20/2018
 Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

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

Reference Value = 35.10 V/m; Power Drift = -0.50 dB

Fast SAR: SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.788 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.31 W/kg

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

Reference Value = 35.10 V/m; Power Drift = -0.56 dB

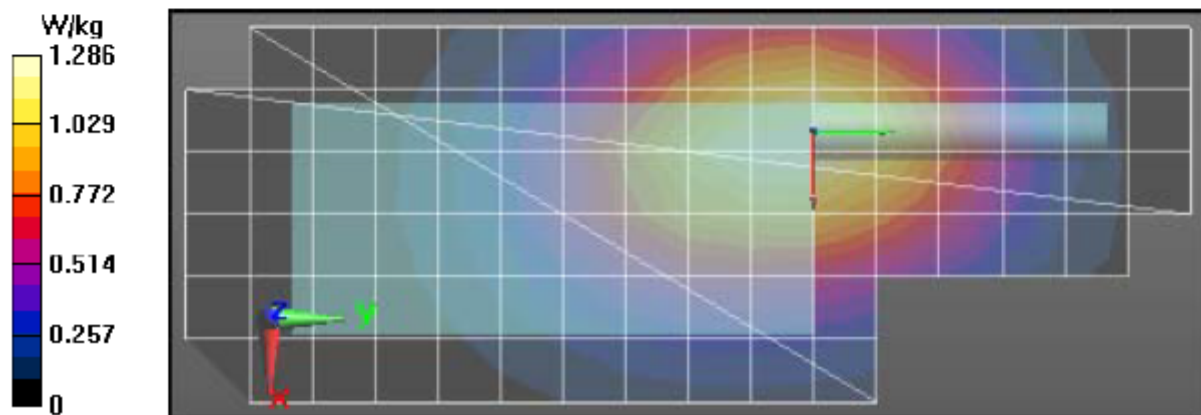
Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.767 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.28 W/kg

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

Maximum value of SAR (measured) = 1.27 W/kg



Assessment at the Body with Body worn PMLN7706A for band (467.5625-467.7125 MHz)**Table 25****Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/10/2018 11:15:16 PM

Robot#: DASY5-PG-3 | Run#: BL(FD)-AB-180710-19
 Model#: PMUE5381A
 Phantom#: ELI5 1147
 Tissue Temp: 22.1 (C)
 Serial#: 1751UL6476
 Antenna: Fixed Antenna
 Test Freq: 467.6375 (MHz)
 Battery: AA ALKALINE
 Carry Acc: PMLN7706A
 Audio Acc: NTN8867A (53724C)
 Start Power: 0.56 (W)

Comments:Duty Cycle: 1:1, Medium parameters used: $f = 468$ MHz; $\sigma = 0.98$ S/m; $\epsilon_r = 54$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7486, Frequency: 467.637 MHz, ConvF(11.68, 11.68, 11.68); Calibrated: 3/20/2018

Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

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

Reference Value = 38.60 V/m; Power Drift = -0.57 dB

Fast SAR: SAR(1 g) = 1.45 W/kg; SAR(10 g) = 1.03 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.75 W/kg

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

Reference Value = 38.60 V/m; Power Drift = -0.79 dB

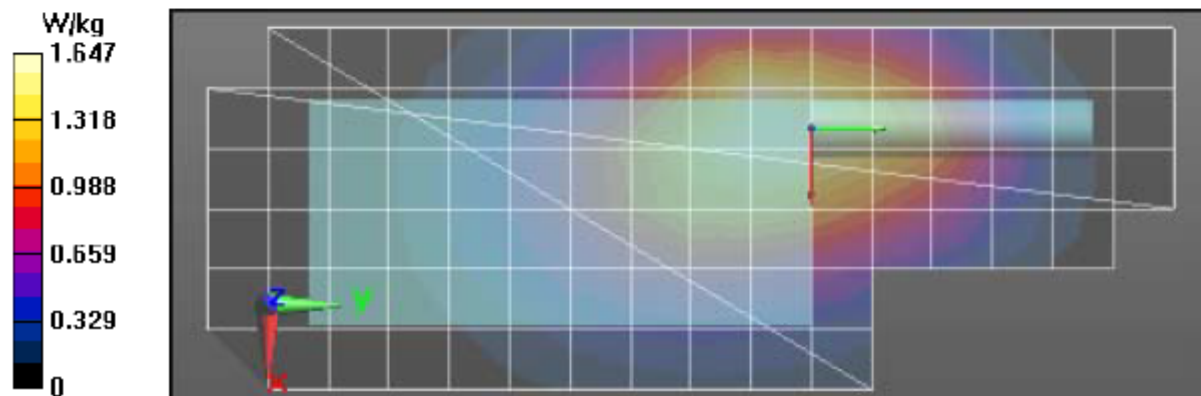
Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 1.31 W/kg; SAR(10 g) = 0.932 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.59 W/kg

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

Maximum value of SAR (measured) = 1.53 W/kg



Assessment at the Body with other audio accessories for band (467.5625-467.7125 MHz)**Table 26****Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/10/2018 9:23:13 AM

Robot#: DASY5-PG-3 | Run#: AN-AB-180710-07
 Model#: PMUE5381A
 Phantom#: ELI5 1147
 Tissue Temp: 22.3 (C)
 Serial#: 1751UL8544
 Antenna: Fixed Antenna
 Test Freq: 467.6375 (MHz)
 Battery: AA ALKALINE
 Carry Acc: PMLN7706A
 Audio Acc: GU6443A (1518)
 Start Power: 0.556 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 468$ MHz; $\sigma = 0.98$ S/m; $\epsilon_r = 54$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7486, , Frequency: 467.637 MHz, ConvF(11.68, 11.68, 11.68); Calibrated: 3/20/2018
 Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

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

Reference Value = 36.85 V/m; Power Drift = -0.78 dB

Fast SAR: SAR(1 g) = 1.34 W/kg; SAR(10 g) = 0.958 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.61 W/kg

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

Reference Value = 36.85 V/m; Power Drift = -0.86 dB

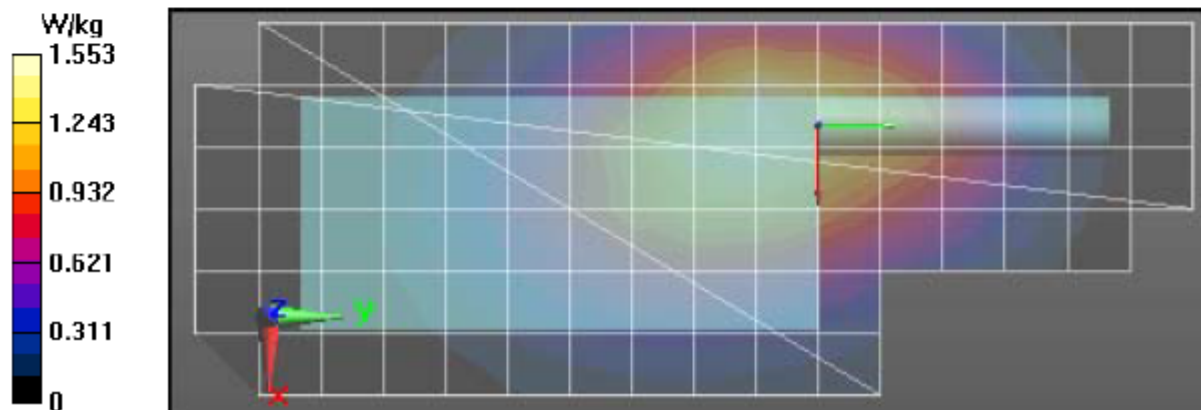
Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.874 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.47 W/kg

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

Maximum value of SAR (measured) = 1.36 W/kg



Assessments at the Face for band (467.5625-467.7125 MHz)

Table 28

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/10/2018 3:01:54 PM

Robot#: DASY5-PG-3 | Run#: AN-FACE-180710-12
 Model#: PMUE5381A
 Phantom#: ELI4 1016
 Tissue Temp: 22.0 (C)
 Serial#: 1751UL8544
 Antenna: Fixed Antenna
 Test Freq: 467.6375 (MHz)
 Battery: AA ALKALINE
 Carry Acc: Radio at front
 Audio Acc: None
 Start Power: 0.556 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 468$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 41.3$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7486, , Frequency: 467.637 MHz, ConvF(11.43, 11.43, 11.43); Calibrated: 3/20/2018
 Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

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

Reference Value = 33.48 V/m; Power Drift = -0.59 dB

Fast SAR: SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.765 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.25 W/kg

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

Reference Value = 33.48 V/m; Power Drift = -0.76 dB

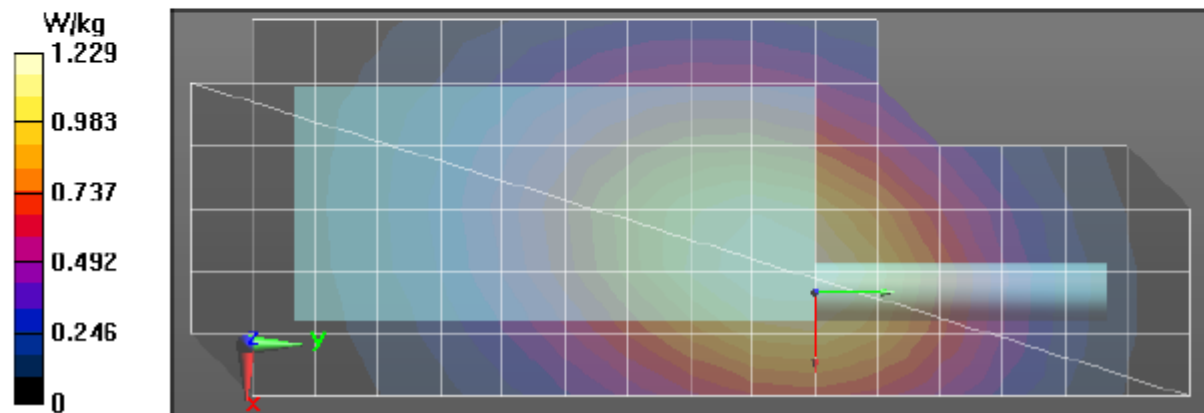
Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.956 W/kg; SAR(10 g) = 0.696 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.14 W/kg

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

Maximum value of SAR (measured) = 1.11 W/kg



APPENDIX G

Shortened Scan of Highest SAR configuration

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/6/2018 3:04:25 PM

Robot#: DASY5-PG-3 | Run#: FD-AB-180706-08#
 Model#: PMUE5381A
 Phantom#: ELI5 1147
 Tissue Temp: 21.7 (C)
 Serial#: 1751UL8544
 Antenna: Fixed Antenna
 Test Freq: 462.6375 (MHz)
 Battery: KEBT-1300
 Carry Acc: PMLN7957A
 Audio Acc: NTN8867A (53724C)
 Start Power: 1.32 (W)

Comments: Shorten Scan

Duty Cycle: 1:1, Medium parameters used: $f = 463 \text{ MHz}$; $\sigma = 0.95 \text{ S/m}$; $\epsilon_r = 53.8$; $\rho = 1000 \text{ kg/m}^3$
 Probe: EX3DV4 - SN7486, , Frequency: 462.637 MHz, ConvF(11.68, 11.68, 11.68); Calibrated: 3/20/2018
 Electronics: DAE4 Sn1488, Calibrated: 3/9/2018

Below 2 GHz-Rev.2/Ab Scan/1-Area Scan (61x161x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 44.12 V/m; Power Drift = -0.42 dB

Fast SAR: SAR(1 g) = 1.74 W/kg; SAR(10 g) = 1.25 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.07 W/kg

Below 2 GHz-Rev.2/Ab Scan/2-Volume 2D Scan (41x41x1): Interpolated grid: $dx=0.7500 \text{ mm}$,
 $dy=0.7500 \text{ mm}$, $dz=1.000 \text{ mm}$

Reference Value = 44.12 V/m; Power Drift = -0.42 dB

Fast SAR: SAR(1 g) = 1.75 W/kg; SAR(10 g) = 1.27 W/kg (SAR corrected for target medium)

Below 2 GHz-Rev.2/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) = 2.04 W/kg

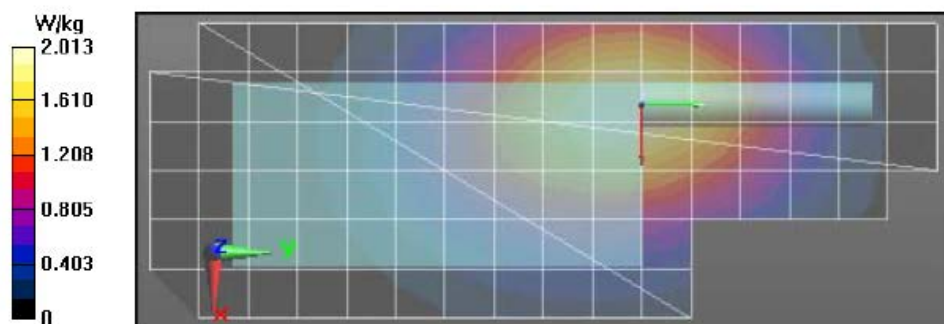
Below 2 GHz-Rev.2/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$,
 $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 50.37 V/m; Power Drift = -0.35 dB

Peak SAR (extrapolated) = 2.58 W/kg

SAR(1 g) = 1.87 W/kg; SAR(10 g) = 1.35 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.25 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)	34	7	1.54
Full scan (area & zoom)	18	20	1.56

APPENDIX H

DUT Test Position Photos

Photos available in Exhibit 7B

APPENDIX I
DUT, Body worn and audio accessories Photos

Photos available in Exhibit 7B