

 MOTOROLA SOLUTIONS	 TESTING CERT # 2518.05
DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2	
Motorola Solutions Inc. EME Test Laboratory Motorola Solutions Malaysia Sdn Bhd (455657-H) Plot 2, Bayan Lepas Technoplex Industrial Park, Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.	Date of Report: 11/08/2015 Report Revision: A
Responsible Engineer: Tiong Nguk Ing (EME Engineer) Report Author: Tiong Nguk Ing (EME Engineer) Date/s Tested: 9/2/2015- 9/13/2015 Manufacturer: Motorola Solutions Inc. DUT Description: Handheld Portable 806-870 MHz 2W FKP WiFi GOB Test TX mode(s): TDMA (PTT) , Bluetooth, WLAN 802.11 b/g/n Max. Power output: 2.4 W (LMR 806-825 & 851-870 MHz band), 7.9 mW (Bluetooth), 22.4 mW (WLAN 802.11 b), 7.9 mW (WLAN 802.11g), 7.9 mW (WLAN 802.11n) Nominal Power: 2.0 W (LMR 806-825 & 851-870 MHz band), 6.3 mW (Bluetooth), 17.8 mW (WLAN 802.11 b), 6.3 mW (WLAN 802.11g), 6.3 mW (WLAN 802.11n) Tx Frequency Bands: LMR 806-825 & 851-870 MHz; Bluetooth 2.402-2.480 GHz; WLAN 802.11 b/g/n 2.412-2.462 GHz Signaling type: TDMA (LMR), FHSS (Bluetooth), 802.11 b/g/n (WLAN) Model(s) Tested: PMUF1630B Model(s) Certified: PMUF1630B Serial Number(s): 806TRR0357, 806TRR0371 Classification: Occupational/Controlled FCC ID: AZ489FT7074; LMR 806-824 & 851-869 MHz, Bluetooth 2.402-2.480 GHz, WLAN 802.11 b/g/n 2.412-2.462 GHz IC: 109U-89FT7074; This report contains results that are immaterial for IC equipment approval, which are clearly identified. 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 OET Bulletin 65. The 10 grams result is not applicable to FCC filing. The test results clearly demonstrate compliance with ICNIRP (1998) Guidelines for limiting exposure in time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz), Health Physics 74, 494-522 RF Exposure limits of 10 W/kg averaged over 10grams of contiguous tissue.	
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.	
 Deanna Zakharia EME Lab Senior Resource Manager, Laboratory Director Approval Date: 11/30/2015	Certification Date: 11/30/2015 Certification No.: L1150913P

Appendix D

System Verification Check Scans

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/2/2015 5:20:32 PM

Robot#: DASY5-PG-3 | Run#: FIE-SY5P-900B-150902-01
 Dipole Model#: D900V2
 Phantom#: ELI4 1037
 Tissue Temp: 20.4 (C)
 Serial#: 1d025
 Test Freq: 900.000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.19 dB
 Adjusted SAR (1W): 10.48 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 900$ MHz; $\sigma = 1.08$ S/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN3568, Frequency: 900 MHz, CompF(8.09, 8.09, 8.09); Calibrated: 2/27/2015
 Electronics: DAE4 Sn688, Calibrated: 2/23/2015

Configuration/System Performance Check/Dipole Area Scan 2 (41x101x1): Interpolated

grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 54.48 V/m; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 2.67 W/kg; SAR(10 g) = 1.73 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 3.19 W/kg

Configuration/System Performance Check/0-Degree Cube (5x5x7)/Cube 0: Measurement

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

Reference Value = 54.48 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 4.06 W/kg

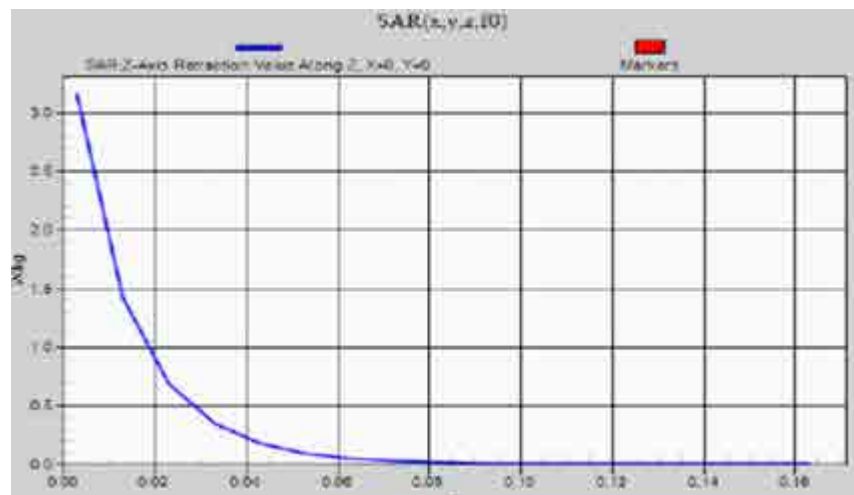
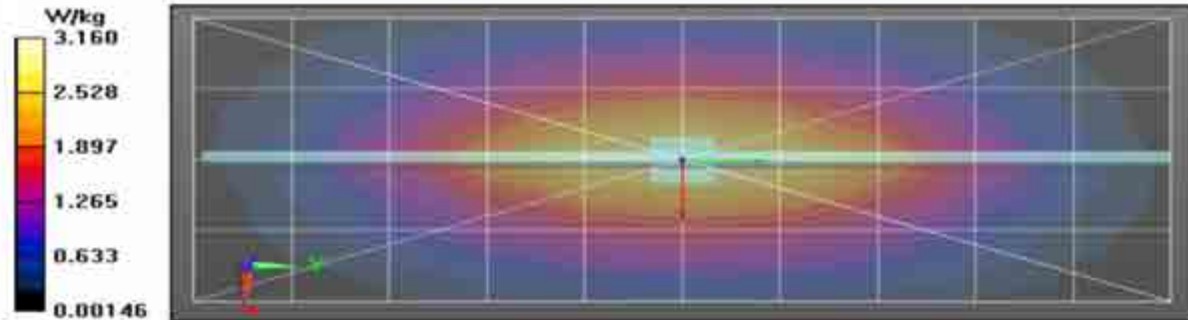
SAR(1 g) = 2.62 W/kg; SAR(10 g) = 1.7 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.17 W/kg

Configuration/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid

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

Maximum value of SAR (measured) = 3.16 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/4/2015 2:13:00 PM

Robot#: DASY5-PG-3 | Run#: MO-SYSP-900B-150904-01
 Dipole Model#: D900V2
 Phantom#: ELI4 1037
 Tissue Temp: 21.3 (C)
 Serial#: 1d025
 Test Freq: 900.000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.19 dB
 Adjusted SAR (1W): 10.52 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 900$ MHz, $\sigma = 1.08$ S/m, $\epsilon_r = 53.8$, $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN3568, Frequency: 900 MHz, ConvF(8.09, 8.09, 8.09), Calibrated: 2/27/2015
 Electronics: DAE4 Sn688, Calibrated: 2/23/2015

Configuration/System Performance Check/Dipole Area Scan 2 (41x101x1): Interpolated

grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 54.68 V/m, Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 2.66 W/kg; SAR(10 g) = 1.73 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 3.18 W/kg

Configuration/System Performance Check/Dipole Area Scan 2 (5x11x1): Measurement grid

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 3.17 W/kg

Configuration/System Performance Check/0-Degree Cube (5x5x7)/Cube 0: Measurement

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

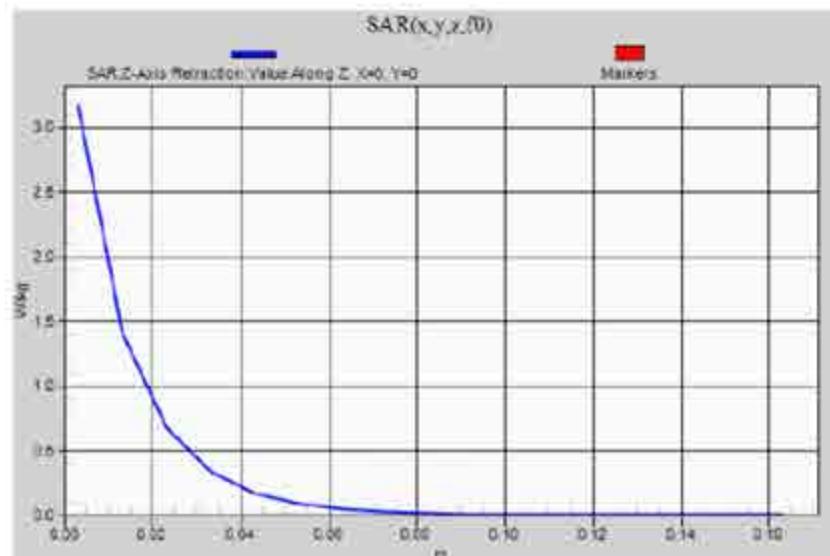
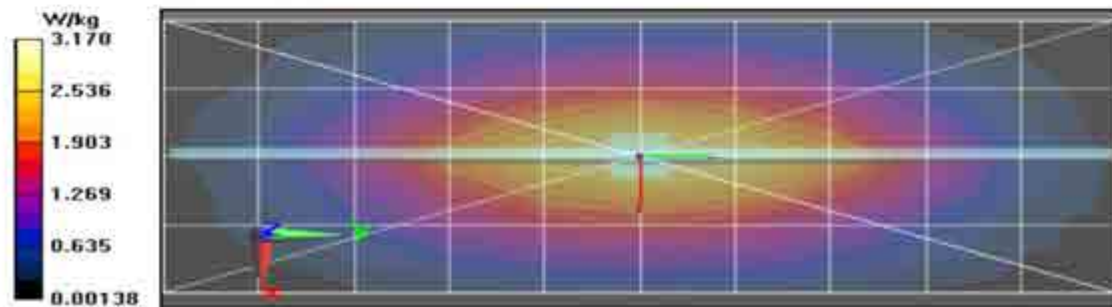
Reference Value = 54.68 V/m, Power Drift = -0.02 dB

Peak SAR (extrapolated) = 4.07 W/kg

SAR(1 g) = 2.63 W/kg; SAR(10 g) = 1.7 W/kg (SAR corrected for target medium)

Configuration/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid

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



Motorola Solutions, Inc. EME Laboratory
Date/Time: 9/5/2015 8:23:39 AM

Robot#: DASY5-PG-3 | Run#: FIE-SYSP-900B-150905-01
Dipole Model#: D900V2
Phantom#: EL14 1037
Tissue Temp: 20.4 (C)
Serial#: 1d025
Test Freq: 900.000 (MHz)
Start Power: 250 (mW)
Rotation (ID): 0.21 dB
Adjusted SAR (1W): 10.64 (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 900$ MHz; $\sigma = 1.07$ S/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN3568, Frequency: 900 MHz, ConvF(8.09, 8.09, 8.09), Calibrated: 2/27/2015
Electronics: DAE4 Sn688, Calibrated: 2/23/2015

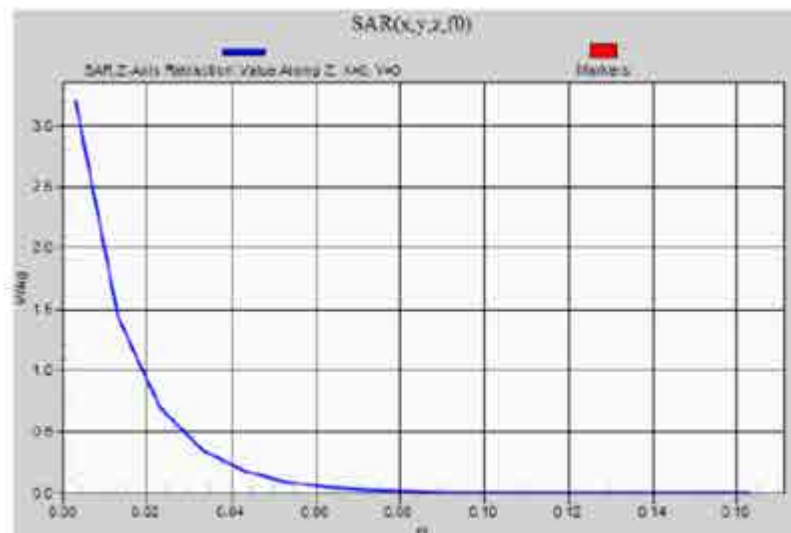
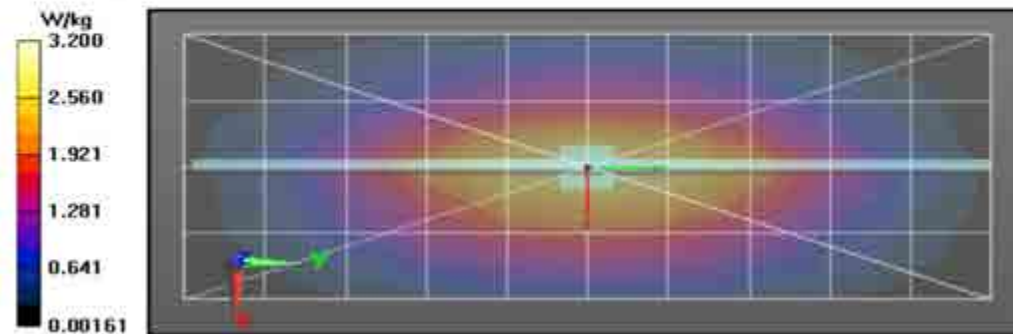
Configuration/System Performance Check/Dipole Area Scan 2 (41x101x1): Interpolated

grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 54.99 V/m; Power Drift = -0.00 dB
Fast SAR: SAR(1 g) = 2.68 W/kg; SAR(10 g) = 1.74 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 3.19 W/kg

Configuration/System Performance Check/0-Degree Cube (5x5x7)/Cube 0: Measurement

grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 54.99 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 4.09 W/kg
SAR(1 g) = 2.66 W/kg; SAR(10 g) = 1.72 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 3.20 W/kg

Configuration/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm



Motorola Solutions, Inc. EME Laboratory
Date/Time: 9/7/2015 6:51:03 AM

Robot#: DASY5-PG-3 | Run#: TLC-SY5P-900B-150907-01
 Dipole Model#: D900V2
 Phantom#: ELI4 1037
 Tissue Temp: 23.1 (C)
 Serial#: 1d025
 Test Freq: 900.000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.21 dB
 Adjusted SAR (1W): 10.60 (1g)

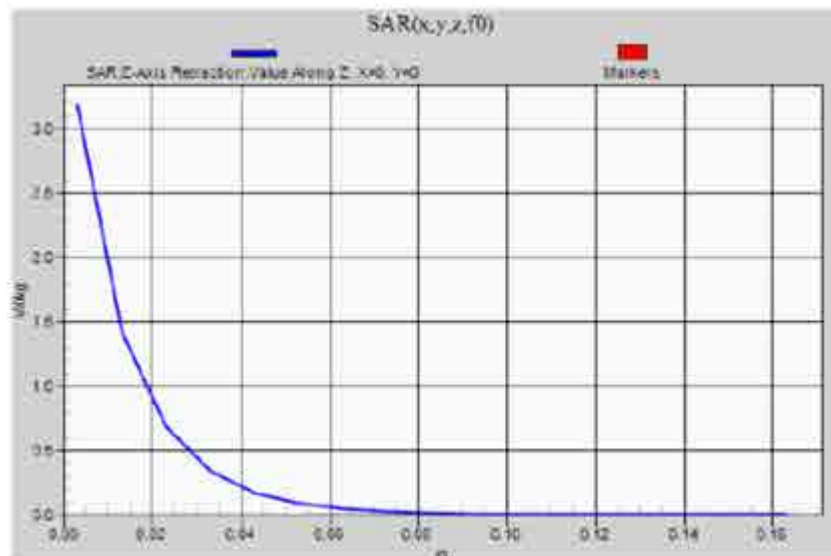
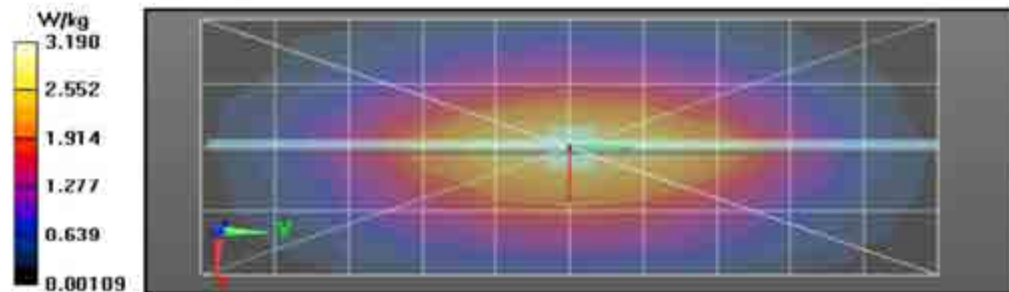
Comments:

Duty Cycle: 1:1. Medium parameters used: $f = 900$ MHz; $n = 1.07$ S/m; $\epsilon_r = 52.9$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN356S, Frequency: 900 MHz, ConvF(8.09, 8.09, 8.09); Calibrated: 2/27/2015
 Electronics: DAE4 Sn68S, Calibrated: 2/23/2015

Configuration/System Performance Check/Dipole Area Scan 2 (41x101x1): Interpolated
 grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 54.91 V/m, Power Drift = 0.02 dB
 Fast SAR: SAR(1 g) = 2.67 W/kg; SAR(10 g) = 1.74 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 3.17 W/kg

Configuration/System Performance Check/0-Degree Cube (5x5x7)/Cube 0: Measurement
 grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 54.91 V/m, Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 4.10 W/kg
 SAR(1 g) = 2.65 W/kg; SAR(10 g) = 1.71 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 3.19 W/kg

Configuration/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: 9/8/2015 7:33:09 PM

Robot#: DASY5-PG-3 | Run#: FIE-SYSP-900H-150908-05
Dipole Model#: D900V2
Phantom#: EL14 1037
Tissue Temp: 20.7 (C)
Serial#: 1d025
Test Freq: 900.000 (MHz)
Start Power: 250 (mW)
Rotation (1D): 0.22 dB
Adjusted SAR (1W): 9.92 (1g)

Comments:

Duty Cycle: 1:1. Medium parameters used: $f = 900$ MHz; $\sigma = 0.99$ S/m; $\epsilon_r = 40$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN3568, Frequency: 900 MHz, ConvF(8.26, 8.26, 8.26), Calibrated: 2/27/2015
Electronics: DAE4 Sn688, Calibrated: 2/23/2015

Configuration/System Performance Check/Dipole Area Scan 2 (41x101x1): Interpolated

grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 55.35 V/m; Power Drift = -0.00 dB

Fast SAR: SAR(1 g) = 2.55 W/kg; SAR(10 g) = 1.68 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 3.02 W/kg

Configuration/System Performance Check/0-Degree Cube (5x5x7)/Cube 0: Measurement

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

Reference Value = 55.35 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 3.85 W/kg

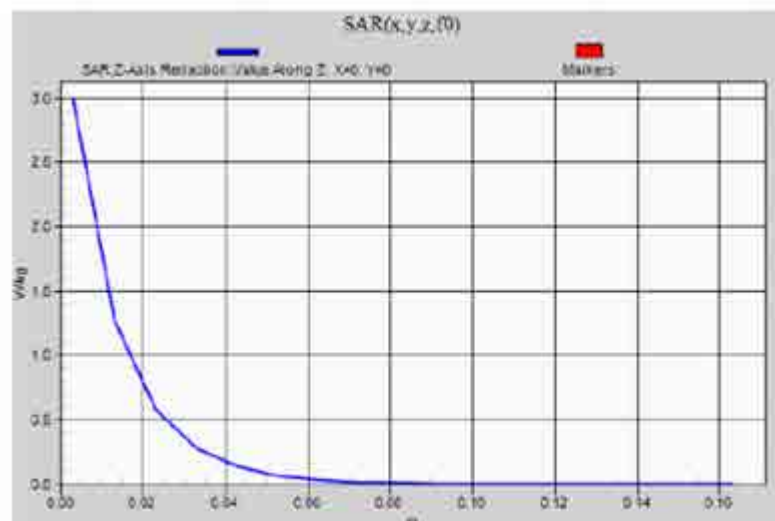
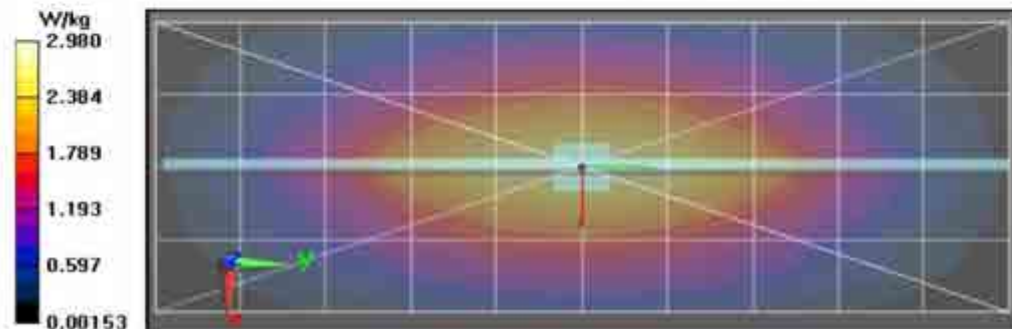
SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.59 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.00 W/kg

Configuration/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:

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

Maximum value of SAR (measured) = 2.98 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/10/2015 10:22:44 PM

Robot#: DASY5-PG-03 | Run#: FIE-SYSP-2450B-150910-01
 Dipole Model#: D2450V2
 Phantom#: EL14 1050
 Tissue Temp: 20.7 (C)
 Serial#: 781
 Test Freq: 2450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.2 dB
 Adjusted SAR (1W): 48.00 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 2450$ MHz, $\sigma = 2.01$ S/m, $\epsilon_r = 47.5$, $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN3568, Frequency: 2450 MHz, ConvF(6.63, 6.63, 6.63); Calibrated: 2/27/2015
 Electronic: DAE4 Sn688, Calibrated: 2/23/2015

2-3 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (51x101x1): Interpolated

grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 99.84 V/m; Power Drift = -0.00 dB

Fast SAR: SAR(1 g) = 12.6 W/kg; SAR(10 g) = 5.88 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 20.1 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 = 99.84 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 26.6 W/kg

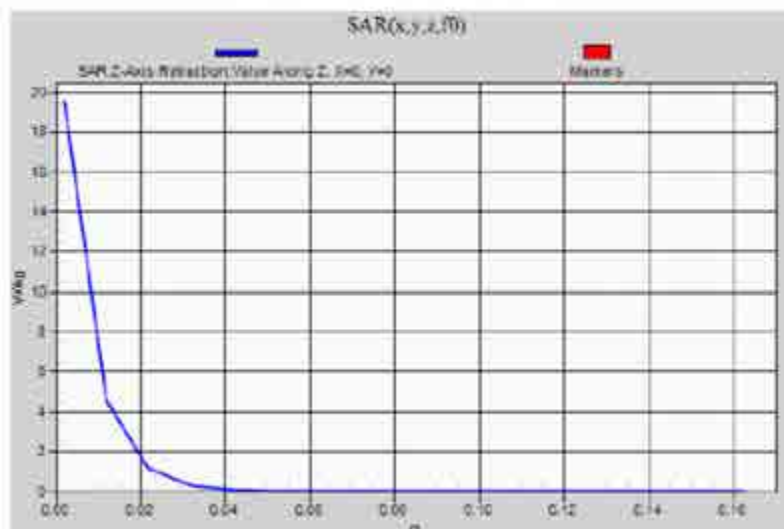
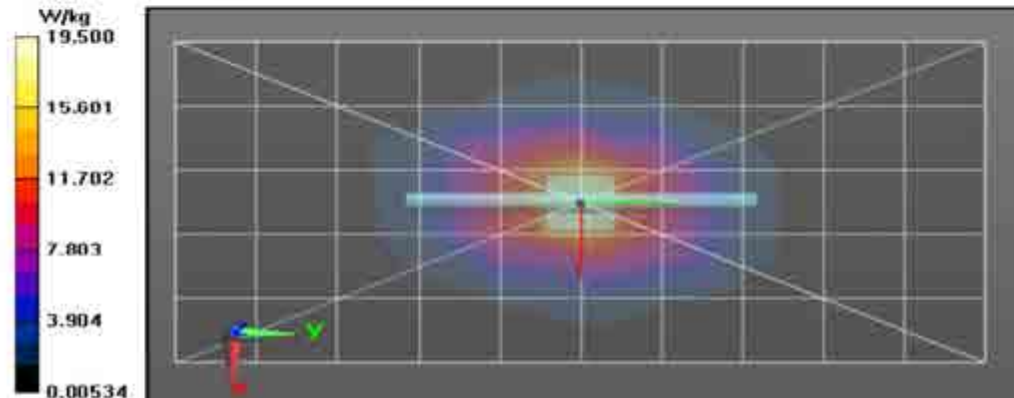
SAR(1 g) = 12 W/kg; SAR(10 g) = 5.56 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 19.4 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) = 19.5 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/13/2015 10:43:22 AM

Robot#: DASY5-PG-03 | Run#: FIE-SYSP-2450H-150913-01
 Dipole Model#: D2450V2
 Phantom#: EL14 1028
 Tissue Temp: 21.2 (C)
 Serial#: 781
 Test Freq: 2450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.2 dB
 Adjusted SAR (1W): 52.80 mW/kg (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 2450$ MHz; $\sigma = 1.88$ S/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN3568, Frequency: 2450 MHz, ConvF(6.38, 6.38, 6.38); Calibrated: 2/27/2015
 Electronics: DAE4 5u688, Calibrated: 2/23/2015

2-3 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (51x101x1): Interpolated

grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 105.9 V/m, Power Drift = -0.08 dB

Fast SAR: SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.37 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 21.2 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 = 105.9 V/m, Power Drift = -0.08 dB

Peak SAR (extrapolated) = 27.6 W/kg

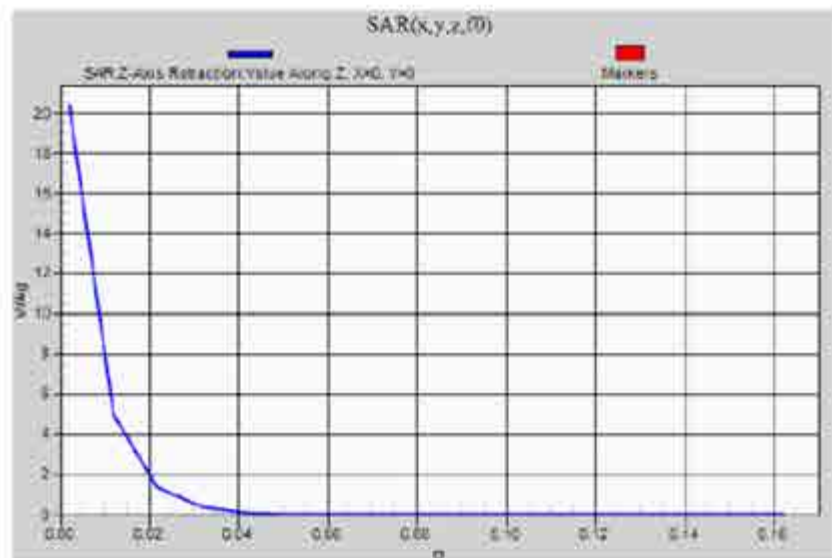
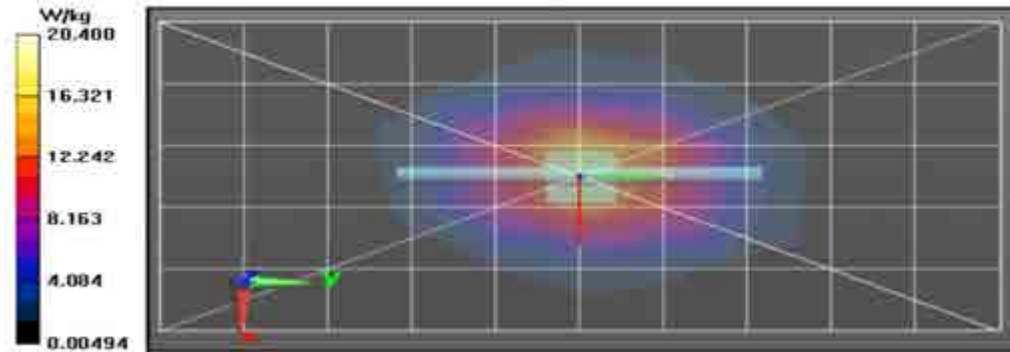
SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.11 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 20.3 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) = 20.4 W/kg



Appendix E

DUT Scans

Assessment at the Body for 806-824 MHz band with Body worn PMLN5956B w/ DUT face out Table 18

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/2/2015 7:26:09 PM

Robot#: DASY5-PG-03 | Run#: FIE-AB-150902-02
 Model#: PMUF1630B
 Phantom#: ELI4 1037
 Tissue Temp: 19.7 (C)
 Serial#: 806TRR0357
 Antenna: PMAF4017A
 Test Freq: 824.000 (MHz)
 Battery: HKNN4013A
 Carry Acc: PMLN5956B w/ DUT face out
 Audio Acc: PMLN5958B
 Start Power: 2.36 (W)

Comments:

Duty Cycle: 1:1.99986; Medium parameters used: $f = 824 \text{ MHz}$; $\sigma = 1 \text{ S/m}$; $\epsilon_r = 54$; $\rho = 1000 \text{ kg/m}^3$
 Probe: EX3DV4 - SN3568, Frequency: 824 MHz, ConvF(8.09, 8.09, 8.09); Calibrated: 2/27/2015
 Electronics: DAE4 Sn688, Calibrated: 2/23/2015

Below 2 GHz-Rev.2/AB scan/1-Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 39.23 V/m; Power Drift = -0.44 dB

Fast SAR: SAR(1 g) = 1.64 W/kg; SAR(10 g) = 1.13 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.00 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

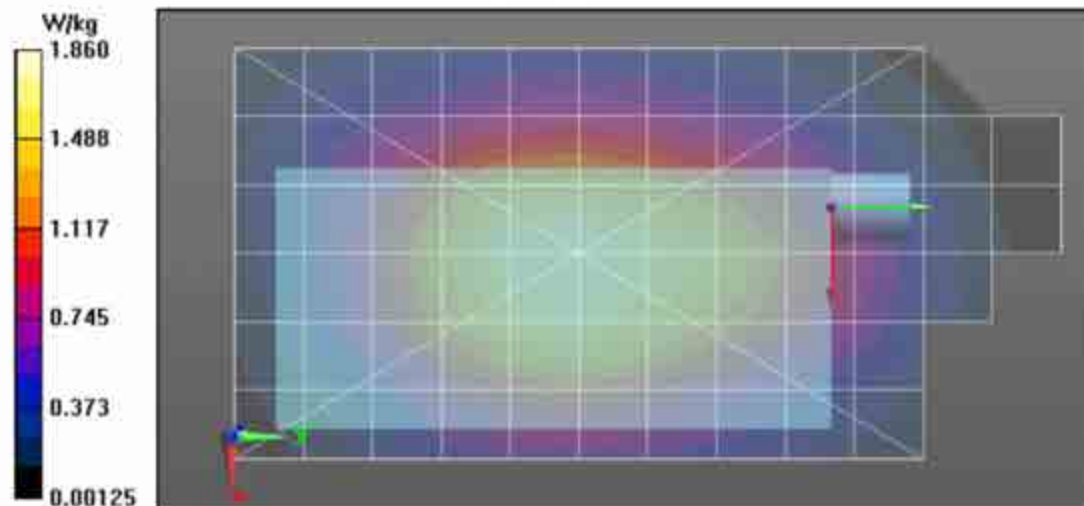
Reference Value = 39.23 V/m; Power Drift = -0.57 dB

Peak SAR (extrapolated) = 2.09 W/kg

SAR(1 g) = 1.59 W/kg; SAR(10 g) = 1.16 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.86 W/kg

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



Assessment at the Body for 806-824 MHz band with Body worn PMLN5956B w/ DUT face in Table 19

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/4/2015 9:23:27 PM

Robot#: DASY5-PG-03 | Run#: MO-AB-150904-02
 Model#: PMUF1630B
 Phantom#: ELI4 1037
 Tissue Temp: 21.6 (C)
 Serial#: 806TRR0357
 Antenna: PMAF4017A
 Test Freq: 824.000 (MHz)
 Battery: HKNN4013A
 Carry Acc: PMLN5956B w/ DUT face in
 Audio Acc: PMLN5958B
 Start Power: 2.40 (W)

Comments:

Duty Cycle: 1:1.99986, Medium parameters used: $f = 824 \text{ MHz}$; $\sigma = 0.99 \text{ S/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

Probe: EX3DV4 - SN3568, Frequency: 824 MHz, ConvF(8.09, 8.09, 8.09); Calibrated: 2/27/2015

Electronics: DAE4 Sn688, Calibrated: 2/23/2015

Below 2 GHz-Rev.2/AB scan/1-Area Scan (61x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 32.86 V/m; Power Drift = -0.23 dB

Fast SAR: SAR(1 g) = 1.3 W/kg; SAR(10 g) = 0.903 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.58 W/kg

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

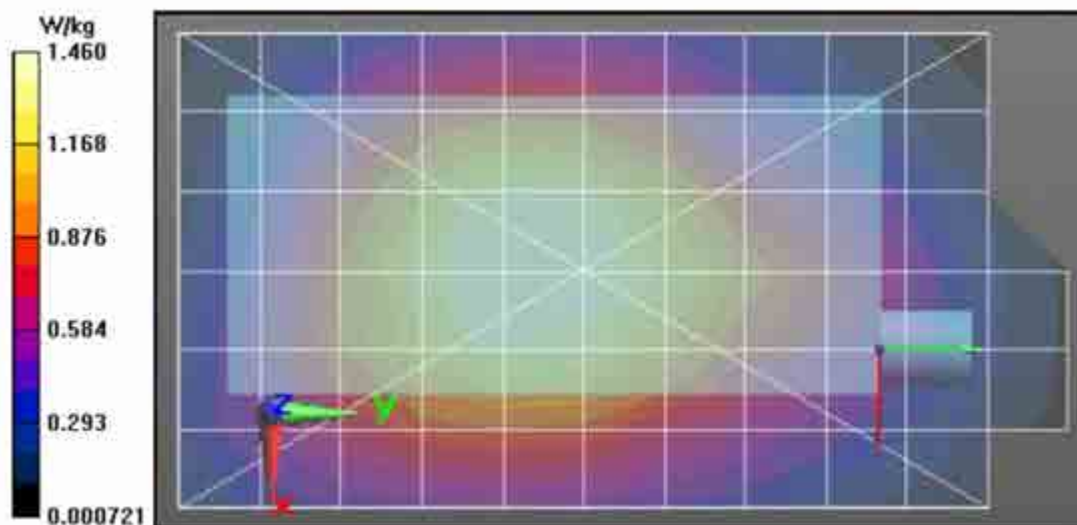
Reference Value = 32.86 V/m; Power Drift = -0.34 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 1.27 W/kg; SAR(10 g) = 0.936 W/kg (SAR corrected for target medium)

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

Below 2 GHz-Rev.2/AB scan/4-Z-Axis Scan (1x1x17): Measurement grid: $dx=20 \text{ mm}$, $dy=20 \text{ mm}$, $dz=10 \text{ mm}$



Assessment at the Body for 806-824 MHz band with Body worn PMLN7040A

Table 20

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/7/2015 1:24:32 PM

Robot#: DASY5-PG-03 | Run#: TLC-AB-150907-08
 Model#: PMUF1630B
 Phantom#: ELI4 1037
 Tissue Temp: 22.7 (C)
 Serial#: 806TRR0357
 Antenna: PMAF4017A
 Test Freq: 824.000 (MHz)
 Battery: PMNN4468A
 Carry Acc: PMLN7040A
 Audio Acc: PMLN5958B
 Start Power: 2.36 (W)

Comments:

Duty Cycle: 1:1.99986, Medium parameters used: $f = 824 \text{ MHz}$; $\sigma = 1 \text{ S/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$
 Probe: EX3DV4 - SN3568, Frequency: 824 MHz, ConvF(8.09, 8.09, 8.09); Calibrated: 2/27/2015
 Electronics: DAE4 Sn688, Calibrated: 2/23/2015

Below 2 GHz-Rev.2/AB scan/1-Area Scan (61x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 40.97 V/m; Power Drift = -0.31 dB

Fast SAR: SAR(1 g) = 2.18 W/kg; SAR(10 g) = 1.51 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.66 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 = 40.97 V/m; Power Drift = -0.42 dB

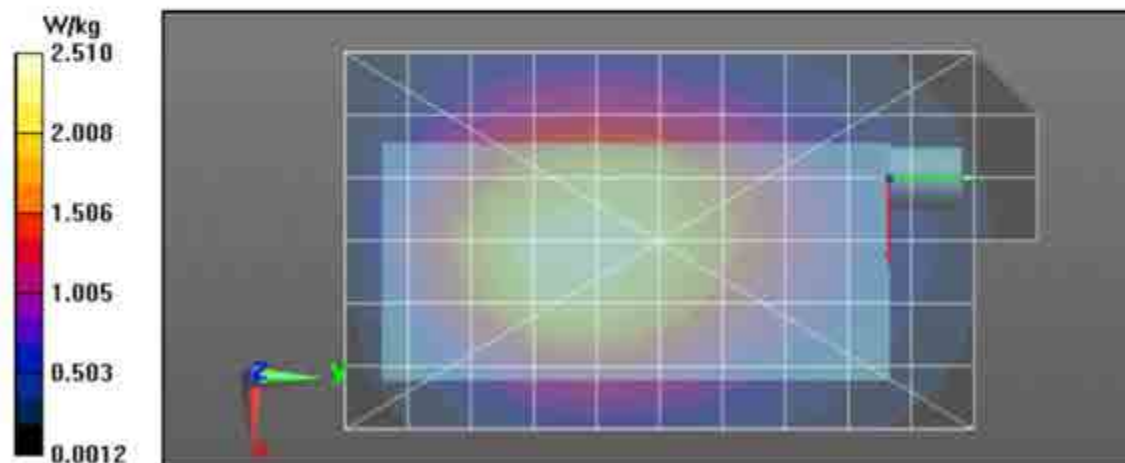
Peak SAR (extrapolated) = 2.88 W/kg

SAR(1 g) = 2.18 W/kg; SAR(10 g) = 1.57 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.61 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) = 2.51 W/kg



Assessment of wireless BT configuration for 806-824 MHz band

Table 21

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/7/2015 1:50:00 PM

Robot#: DASY5-PG-03 | Run#: TLC-AB-150907-09
 Model#: PMUF1630B
 Phantom#: ELI4 1037
 Tissue Temp: 22.7 (C)
 Serial#: 806TRR0357
 Antenna: PMAF4017A
 Test Freq: 824.000 (MHz)
 Battery: PMNN4468A
 Carry Acc: PMLN7040A
 Audio Acc: NONE
 Start Power: 2.40 (W)

Comments:

Duty Cycle: 1:1.99986, Medium parameters used; $f = 824 \text{ MHz}$; $\sigma = 1 \text{ S/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$
 Probe: EX3DV4 - SN3568, Frequency: 824 MHz, ConvF(8.09, 8.09, 8.09); Calibrated: 2/27/2015
 Electronics: DAE4 Sn688, Calibrated: 2/23/2015

Below 2 GHz-Rev.2/AB scan/1-Area Scan (61x121x1): Interpolated grid; $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 46.33 V/m; Power Drift = -0.38 dB

Fast SAR: SAR(1 g) = 2.47 W/kg; SAR(10 g) = 1.71 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 3.01 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 = 46.33 V/m; Power Drift = -0.53 dB

Peak SAR (extrapolated) = 3.27 W/kg

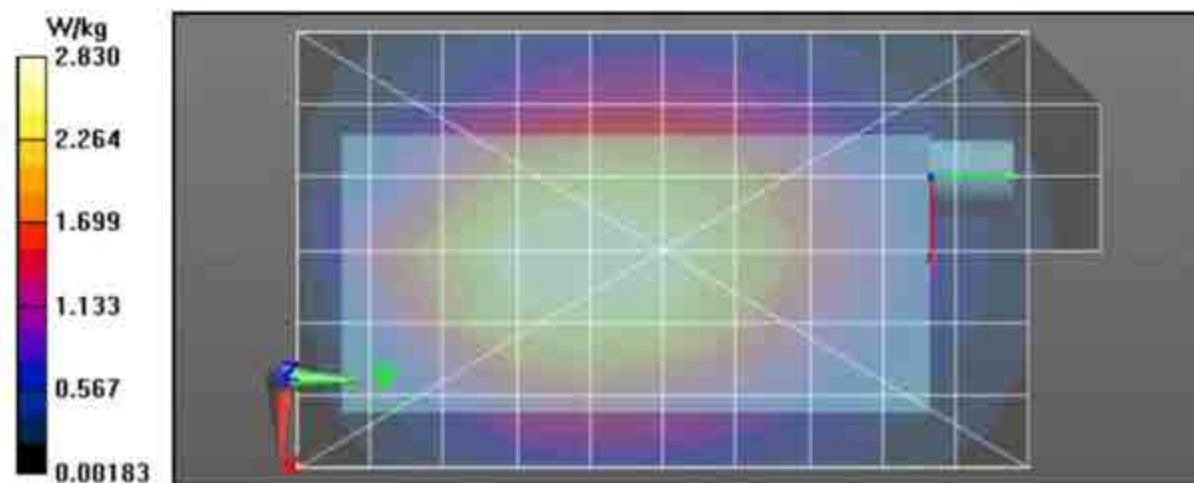
SAR(1 g) = 2.49 W/kg; SAR(10 g) = 1.81 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.88 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) = 2.83 W/kg



Assessment at the Body for 851-869 MHz band with Body worn PMLN5956B w/ DUT face out

Table 23

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/5/2015 4:45:41 PM

Robot#: DASY5-PG-03 | Run#: MO-AB-150905-10
 Model#: PMUF1630B
 Phantom#: ELI4 1037
 Tissue Temp: 21.2 (C)
 Serial#: 806TRR0357
 Antenna: PMAF4017A
 Test Freq: 869.000 (MHz)
 Battery: HKNN4013A
 Carry Acc: PMLN5956B w/ DUT face out
 Audio Acc: PMLN5958B
 Start Power: 2.40 (W)

Comments:

Duty Cycle: 1:1.99986, Medium parameters used: $f = 869$ MHz; $\sigma = 1.04$ S/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN3568, Frequency: 869 MHz, ConvF(8.09, 8.09, 8.09); Calibrated: 2/27/2015

Electronics: DAE4 Sn688, Calibrated: 2/23/2015

Below 2 GHz-Rev.2/AB scan/1-Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 31.35 V/m; Power Drift = -0.35 dB

Fast SAR: SAR(1 g) = 0.903 W/kg; SAR(10 g) = 0.624 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.10 W/kg

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

Reference Value = 31.35 V/m; Power Drift = -0.66 dB

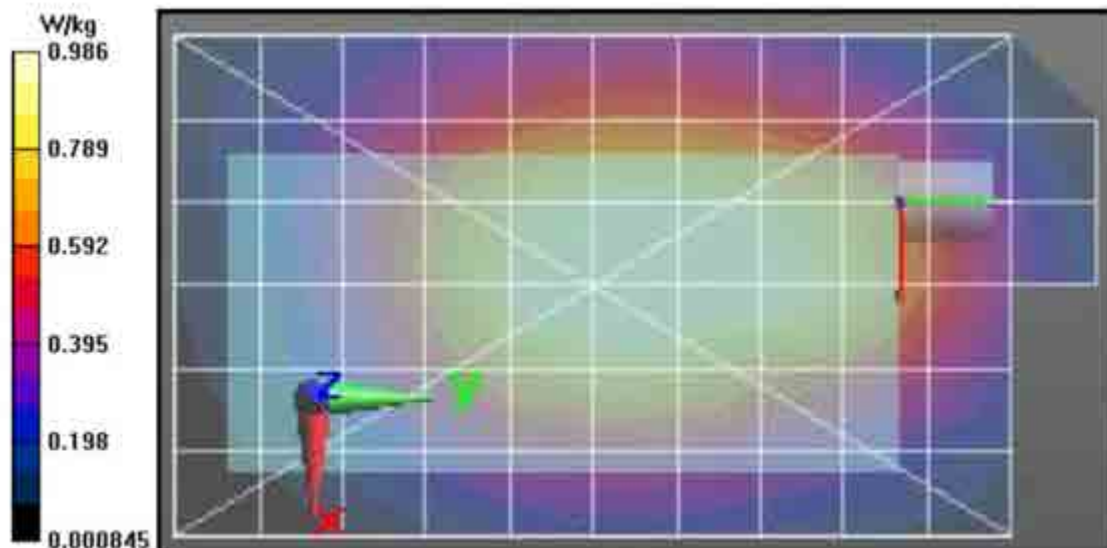
Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.900 W/kg; SAR(10 g) = 0.657 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.05 W/kg

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

Maximum value of SAR (measured) = 0.986 W/kg



Assessment at the Body for 851-869 MHz band with Body worn PMLN5956B w/ DUT face in Table 24

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/5/2015 5:16:14 PM

Robot#: DASY5-PG-03 | Run#: MO-AB-150905-11
 Model#: PMUF1630B
 Phantom#: EL14 1037
 Tissue Temp: 21.2 (C)
 Serial#: 806TRR0357
 Antenna: PMAF4017A
 Test Freq: 869.000 (MHz)
 Battery: HKNN4013A
 Carry Acc: PMLN5956B w/ DUT face in
 Audio Acc: PMLN5958B
 Start Power: 2.40 (W)

Comments:

Duty Cycle: 1:1.99986, Medium parameters used: $f = 869$ MHz; $\sigma = 1.04$ S/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN3568, Frequency: 869 MHz, ConvF(8.09, 8.09, 8.09); Calibrated: 2/27/2015
 Electronics: DAE4 Sn688, Calibrated: 2/23/2015

Below 2 GHz-Rev.2/AB scan/1-Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 29.19 V/m; Power Drift = -0.44 dB

Fast SAR: SAR(1 g) = 0.769 W/kg; SAR(10 g) = 0.534 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.938 W/kg

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

$dy=7.5$ mm, $dz=5$ mm

Reference Value = 29.19 V/m; Power Drift = -0.58 dB

Peak SAR (extrapolated) = 1.05 W/kg

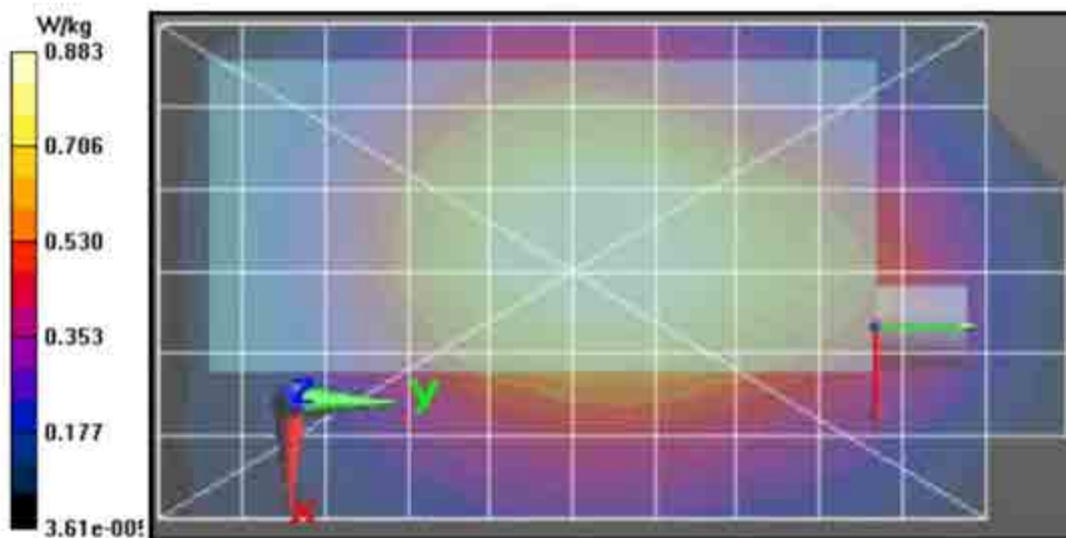
SAR(1 g) = 0.776 W/kg; SAR(10 g) = 0.568 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.926 W/kg

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

$dz=10$ mm

Maximum value of SAR (measured) = 0.883 W/kg



Assessment at the Body for 851-869 MHz band with Body worn PMLN7040A

Table 25

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/5/2015 8:31:29 PM

Robot#: DASY5-PG-03 | Run#: MO-AB-150905-14
 Model#: PMUF1630B
 Phantom#: ELI4 1037
 Tissue Temp: 21.6 (C)
 Serial#: 806TRR0357
 Antenna: PMAF4017A
 Test Freq: 869.000 (MHz)
 Battery: PMNN4468A
 Carry Acc: PMLN7040A
 Audio Acc: PMLN5958B
 Start Power: 2.40 (W)

Comments:

Duty Cycle: 1:1.99986, Medium parameters used: $f = 869$ MHz, $\sigma = 1.04$ S/m, $\epsilon_r = 53.3$, $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN3568, Frequency: 869 MHz, ConvF(8.09, 8.09, 8.09), Calibrated: 2/27/2015
 Electronics: DAE4 Sn688, Calibrated: 2/23/2015

Below 2 GHz-Rev.2/AB scan/1-Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 29.77 V/m; Power Drift = -0.39 dB

Fast SAR: SAR(1 g) = 0.969 W/kg; SAR(10 g) = 0.667 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.18 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 = 29.77 V/m; Power Drift = -0.73 dB

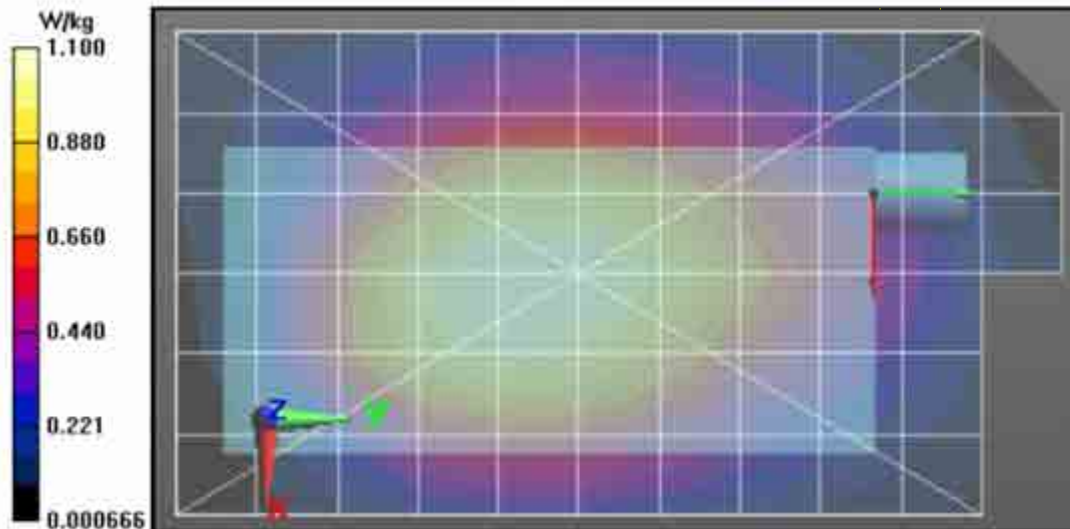
Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.749 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.24 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) = 1.10 W/kg



Assessment of wireless BT configuration for 851-869 MHz band

Table 26

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/7/2015 2:42:58 PM

Robot#: DASY5-PG-03 | Run#: FIE-AB-150907-10
 Model#: PMUF1630B
 Phantom#: ELI4 1037
 Tissue Temp: 22.1 (C)
 Serial#: 806TRR0357
 Antenna: PMAF4017A
 Test Freq: 869.000 (MHz)
 Battery: PMNN4468A
 Carry Acc: PMLN7040A
 Audio Acc: NONE
 Start Power: 2.40 (W)

Comments:

Duty Cycle: 1:1.99986, Medium parameters used: $f = 869 \text{ MHz}$; $\sigma = 1.04 \text{ S/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$
 Probe: EX3DV4 - SN3568, Frequency: 869 MHz, ConvF(8.09, 8.09, 8.09), Calibrated: 2/27/2015
 Electronics: DAE4 Sn688, Calibrated: 2/23/2015

Below 2 GHz-Rev.2/AB scan/1-Area Scan (61x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 31.48 V/m, Power Drift = -0.38 dB

Fast SAR: SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.755 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.34 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 = 31.48 V/m, Power Drift = -0.47 dB

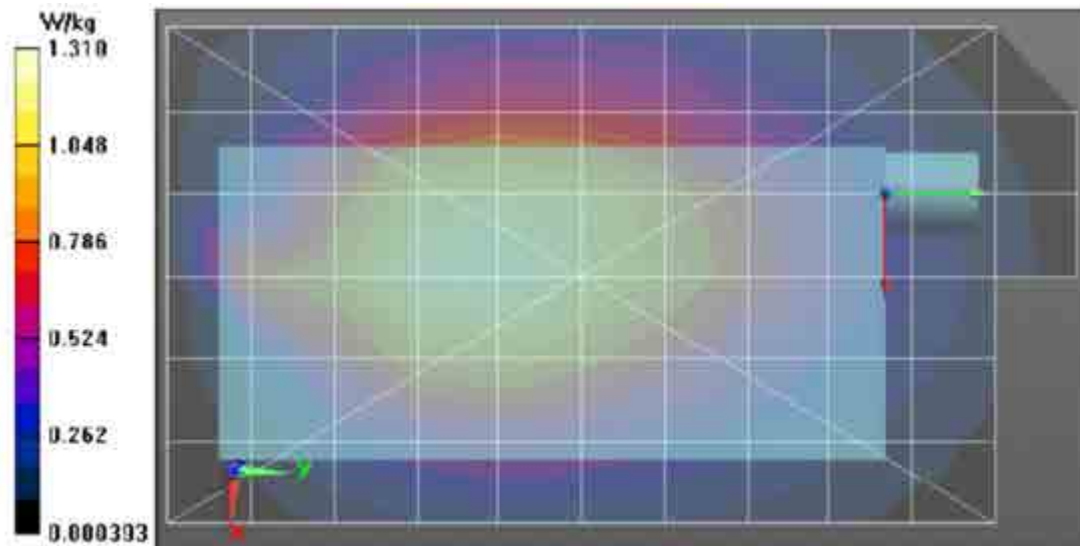
Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.806 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.35 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) = 1.31 W/kg



Assessments at the Body for 802.11 b/g/n

Table 28

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/11/2015 9:59:30 AM

Robot#: DASY5-PG-03 | Run#: TLC-AB-150911-04
 Model#: PMUF1630B
 Phantom#: ELI5 1147
 Tissue Temp: 20.8 (C)
 Serial#: 806TRR0357
 Antenna: PMLF4170A WiFi Ant
 Test Freq: 2412.000(MHz)
 Battery: PMNN4468A
 Carry Acc: PMLN5956B w/ DUT face in
 Audio Acc: None
 Start Power: 0.0507 (W)

Comments:

Duty Cycle: 1:1.53815, Medium parameters used: $f = 2412$ MHz; $\sigma = 1.97$ S/m; $\epsilon_r = 47.6$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN3568, Frequency: 2412 MHz, ConvF(6.63, 6.63, 6.63), Calibrated: 2/27/2015
 Electronics: DAE4 Sn688, Calibrated: 2/23/2015

2-3 GHz-Rev.2/Ab Scan/1-Area Scan (71x141x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 4.838 V/m; Power Drift = 0.03 dB

Fast SAR: SAR(1 g) = 0.057 W/kg; SAR(10 g) = 0.031 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.0829 W/kg

2-3 GHz-Rev.2/Ab Scan/3-Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.838 V/m; Power Drift = -0.02 dB

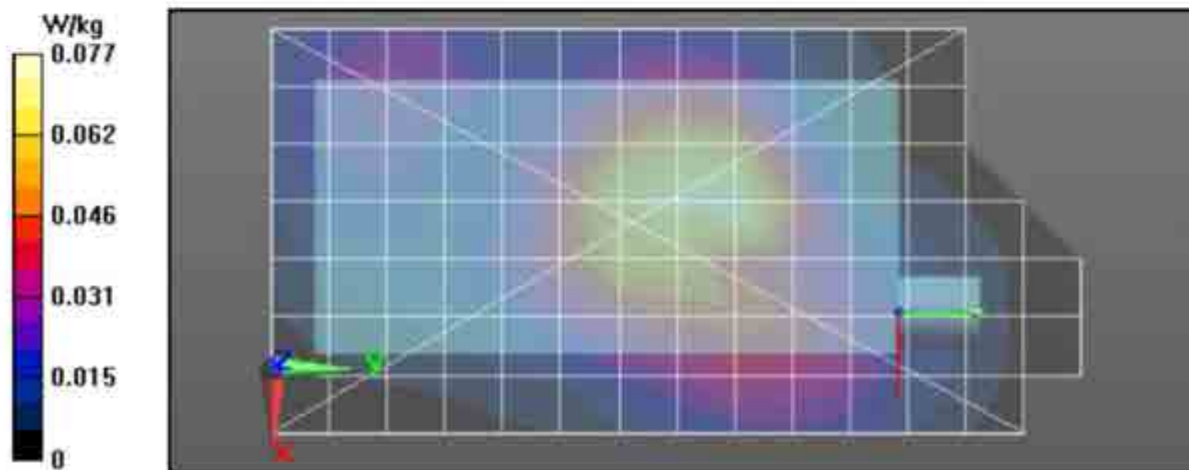
Peak SAR (extrapolated) = 0.102 W/kg

SAR(1 g) = 0.056 W/kg; SAR(10 g) = 0.030 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.0781 W/kg

2-3 GHz-Rev.2/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.0773 W/kg



Assessment at the Face for 806-824 MHz band

Table 30

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/8/2015 9:00:55 PM

Robot#: DASY5-PG-3 | Run#: FIE-FACE-150908-07
 Model#: PMUF1630B
 Phantom#: ELI4 1050
 Tissue Temp: 20.2 (C)
 Serial#: 806TRR0357
 Antenna: PMAF4017A
 Test Freq: 824.000(MHz)
 Battery: HKNN4013A
 Carry Acc: @front
 Audio Acc: NA
 Start Power: 2.40 (W)

Comments:

Duty Cycle: 1:1.99986, Medium parameters used: $f = 824$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN3568, Frequency: 824 MHz, ConvF(8.26, 8.26, 8.26); Calibrated: 2/27/2015
 Electronics: DAE4 Sn688, Calibrated: 2/23/2015

Below 2 GHz-Rev.2/Face Scan/1-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 45.29 V/m; Power Drift = -0.31 dB

Fast SAR: SAR(1 g) = 1.74 W/kg; SAR(10 g) = 1.21 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.11 W/kg

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

Reference Value = 45.29 V/m; Power Drift = -0.46 dB

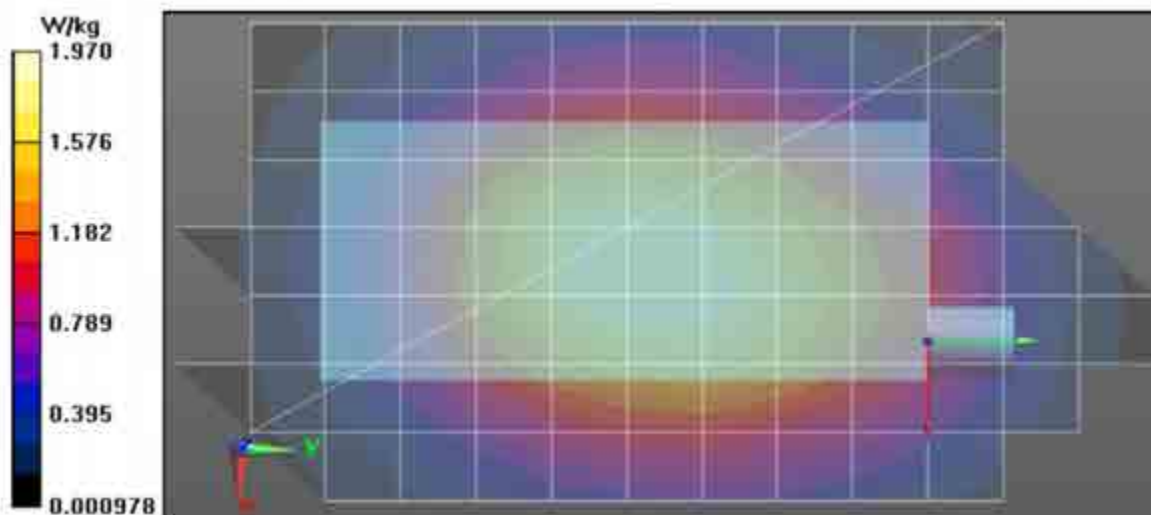
Peak SAR (extrapolated) = 2.28 W/kg

SAR(1 g) = 1.7 W/kg; SAR(10 g) = 1.24 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.02 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) = 1.97 W/kg



Assessment at the Face for 851-869 MHz band

Table 32

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/8/2015 9:35:58 PM

Robot#: DASY5-PG-3 | Run#: FIE-FACE-150908-08
 Model#: PMUF1630B
 Phantom#: ELI4 1050
 Tissue Temp: 20.2 (C)
 Serial#: 806TRR0357
 Antenna: PMAF4017A
 Test Freq: 869.000 (MHz)
 Battery: PMNN4468A
 Carry Acc: @front
 Audio Acc: NA
 Start Power: 2.40 (W)

Comments:

Duty Cycle: 1:1.99986, Medium parameters used: $f = 869$ MHz, $\sigma = 0.96$ S/m, $\epsilon_r = 40.3$, $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN3568, Frequency: 869 MHz, ConvF(8.26, 8.26, 8.26), Calibrated: 2/27/2015
 Electronics: DAE4 Sn688, Calibrated: 2/23/2015

Below 2 GHz-Rev.2/Face Scan/1-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 31.80 V/m; Power Drift = -0.32 dB

Fast SAR: SAR(1 g) = 0.920 W/kg; SAR(10 g) = 0.639 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.12 W/kg

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

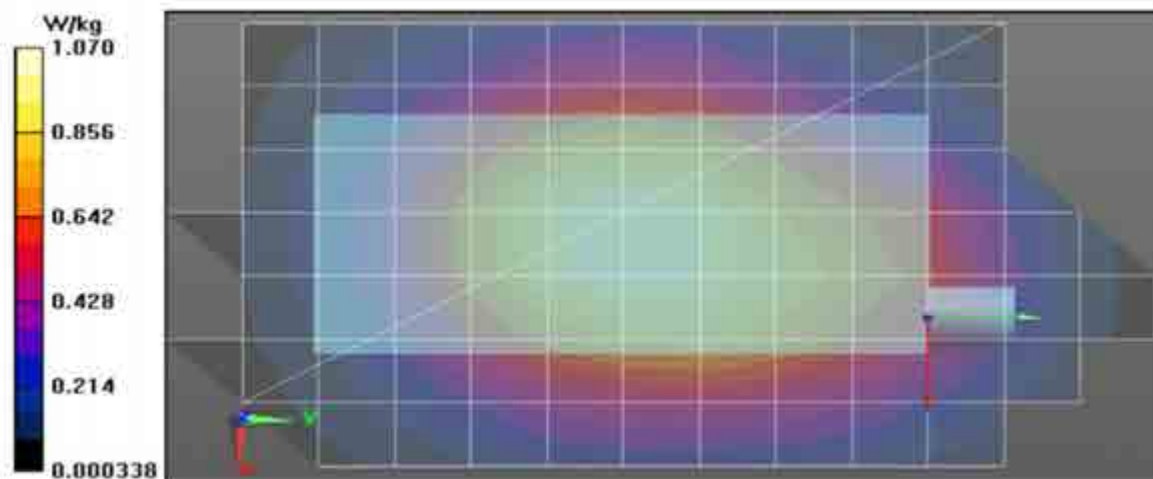
Reference Value = 31.80 V/m; Power Drift = -0.37 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.908 W/kg; SAR(10 g) = 0.655 W/kg (SAR corrected for target medium)

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) = 1.07 W/kg



Assessments at the Face for 802.11 b/g/n

Table 34

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/13/2015 1:11:25 PM

Robot#: DASY5-PG-3 | Run#: FIE-FACE-150913-04
 Model#: PMUF1630B
 Phantom#: ELI4 1028
 Tissue Temp: 20.0 (C)
 Serial#: 806TRR0371
 Antenna: PMLF4170A WiFi Ant
 Test Freq: 2412.000 (MHz)
 Battery: HKNN4013A
 Carry Acc: None
 Audio Acc: None
 Start Power: 0.0508 (W)

Comments:

Duty Cycle: 1:1.53815, Medium parameters used: $f = 2412$ MHz, $\sigma = 1.84$ S/m, $\epsilon_r = 41.6$, $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN3568, Frequency: 2412 MHz, ConvF(6.38, 6.38, 6.38); Calibrated: 2/27/2015

Electronics: DAE4 Sn688, Calibrated: 2/23/2015

2-3 GHz-Rev.2/Face Scan/1-Area Scan (91x151x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 7.768 V/m; Power Drift = -0.03 dB

Fast SAR: SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.045 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.106 W/kg

2-3 GHz-Rev.2/Face Scan/3-Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

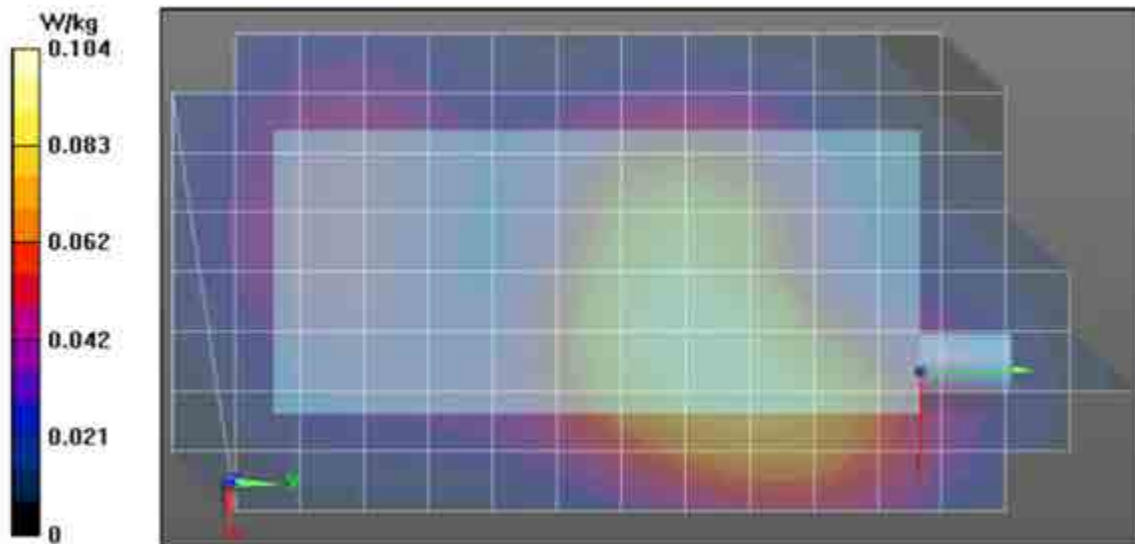
Reference Value = 7.768 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.139 W/kg

SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.045 W/kg (SAR corrected for target medium)

2-3 GHz-Rev.2/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 0.104 W/kg



APPENDIX F

Shortened Scan of Highest SAR configuration

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/7/2015 4:48:20 PM

Robot#: DASY5-PG-03 | Run#: FIE-AB-150907-13
 Model#: PMUF1630B
 Phantom#: ELI4 1037
 Tissue Temp: 22.2 (C)
 Serial#: 806TRR0357
 Antenna: PMAF4017A
 Test Freq: 824.000 (MHz)
 Battery: PMNN4468A
 Carry Acc: PMLN7040A
 Audio Acc: NONE
 Start Power: 2.40 (W)

Comments: Shorten Scan

Duty Cycle: 1:1.99986, Medium parameters used: $f = 824 \text{ MHz}$, $\sigma = 1 \text{ S/m}$, $\epsilon_r = 53.5$, $\rho = 1000 \text{ kg/m}^3$
 Probe: EX3DV4 - SN3568, Frequency: 824 MHz, ConvF(8.09, 8.09, 8.09); Calibrated: 2/27/2015
 Electronics: DAE4 Sn688, Calibrated: 2/23/2015

Below 2 GHz-Rev.2/AB scan/1-Area Scan (61x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 45.77 V/m; Power Drift = -0.43 dB

Fast SAR: SAR(1 g) = 2.39 W/kg; SAR(10 g) = 1.66 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.91 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 = 45.77 V/m; Power Drift = -0.44 dB

Fast SAR: SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.65 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.89 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) = 2.81 W/kg

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

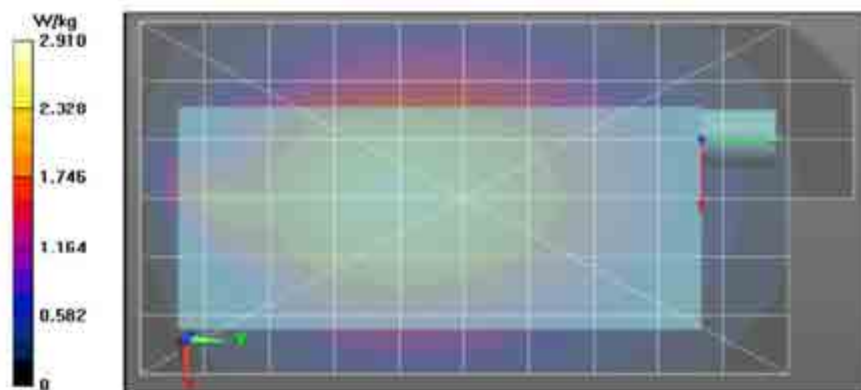
 $dy=7.5 \text{ mm}$, $dz=5 \text{ mm}$

Reference Value = 54.16 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.53 W/kg

SAR(1 g) = 2.61 W/kg; SAR(10 g) = 1.9 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.09 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)	SAR 10g (W/kg)
Shorten scan (zoom)	35	8	1.32	0.96
Full scan (area & zoom)	21	20	1.41	1.02

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