

 MOTOROLA SOLUTIONS	
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DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2

EME Test Laboratory Motorola Solutions Malaysia Sdn Bhd (455657-H) Customer Solution Center Plot 2, Bayan Lepas Technoplex Industrial Park, Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.	Date of Report: 07/05/13 Report Revision: A Report ID: SAR rpt_PMUF1629A _Rev.A 130705_SR11444
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Responsible Engineer: Report Author: Date/s Tested: Manufacturer/Location: Sector/Group/Div.: Date submitted for test: DUT Description: Test TX mode(s): Max. Power output: Nominal Power: Tx Frequency Bands: Signaling type: Model(s) Tested: Model(s) Certified: Serial Number(s): Classification: FCC ID: IC:	Tan KaiYan (EME Engineer) Tan KaiYan (EME Engineer) 06/04/2013-06/14/2013 Motorola, Penang PCR 05/08/13 Frequency band of 896-902 MHz (tx freq for repeater operation) and 935-941 MHz (talkaround freq) 2W, 2.402-2.480 GHz (Bluetooth), Non-GOB TDMA (PTT), BT (CW, 77% duty cycle for Bluetooth) 2.4 W (900MHz), 4 mW (Bluetooth) 2 W (900MHz), 2.5 mW (Bluetooth) 896-902MHz (tx freq for repeater operation) and 935-941MHz (talkaround freq), 2.402-2.480GHz (Bluetooth) TDMA, FHSS (BT) PMUF1629A PMUF1629A 806TPK0002 and 806TPK0004 Occupational/Controlled AZ489FT5867; Rule Part 90 (896-901 MHz & 935-940 MHz); Rule Part 15 (2402-2480 MHz) 109U-89FT5867; (896-901 MHz, 935-940 MHz & 2402-2480 MHz)
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* Refer to section 15 of part 1 for highest SAR summary results.

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 47 CFR 2.1093(d). 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 3.0 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.

 EMS EME Lab Senior Resource Manager, Laboratory Director Approval Date: 7/8/2013	Certification Date: 7/8/2013 Certification No.: L1130705P
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APPENDIX D
Test System Check Scans

Motorola Solutions, Inc. EME Laboratory
Date/Time: 6/4/2013 10:55:41 AM

Robot#: DASY5-FL-3 | Run#: ErC-SYSP 900B-130604-05
 Dipole Model# D900V2
 Phantom#: OVAL1022
 Tissue Temp: 20.7 (C)
 Serial#: 084
 Test Freq: 900 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.047 dB
 Adjusted SAR (1W): 10.72 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 900 MHz; $\sigma = 1.03$ mho/m; $\epsilon_r = 56$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3147, , Frequency: 900 MHz, ConvF(5.99, 5.99, 5.99); Calibrated: 1/28/2013
 Electronics: DAE4 Sn1231, Calibrated: 3/12/2013

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x9x1):

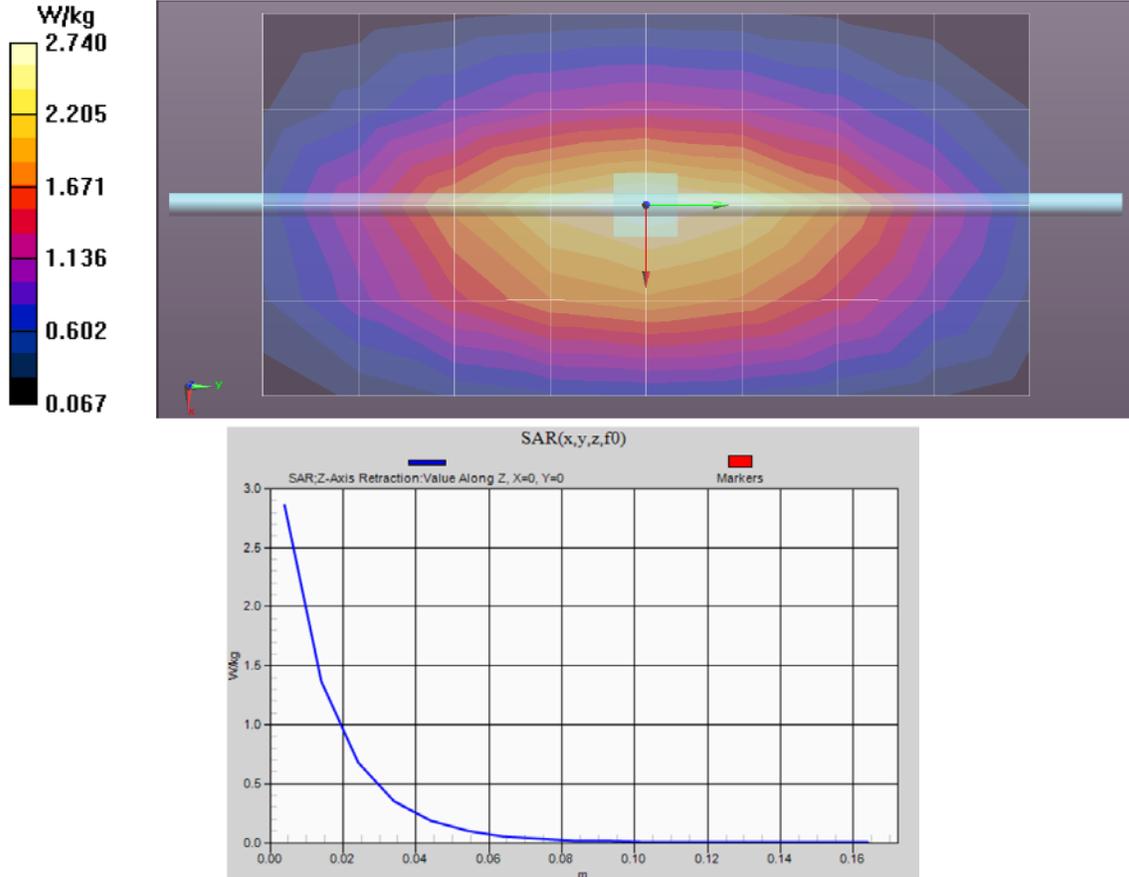
Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.74 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 53.400 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 3.813 mW/g
SAR(1 g) = 2.68 mW/g; SAR(10 g) = 1.75 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 2.86 W/kg

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

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



Motorola Solutions, Inc. EME Laboratory
Date/Time: 6/4/2013 2:48:38 PM

Robot#: DASY5-FL-3 | Run#: ErC-SYSP 900H-130604-10
 Dipole Model# D900V2
 Phantom#: OVAL1019
 Tissue Temp: 20.5 (C)
 Serial#: 084
 Test Freq: 900 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.045 dB
 Adjusted SAR (1W): 10.80 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 42.8$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3147, , Frequency: 900 MHz, ConvF(6.14, 6.14, 6.14); Calibrated: 1/28/2013
 Electronics: DAE4 Sn1231, Calibrated: 3/12/2013

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x9x1):

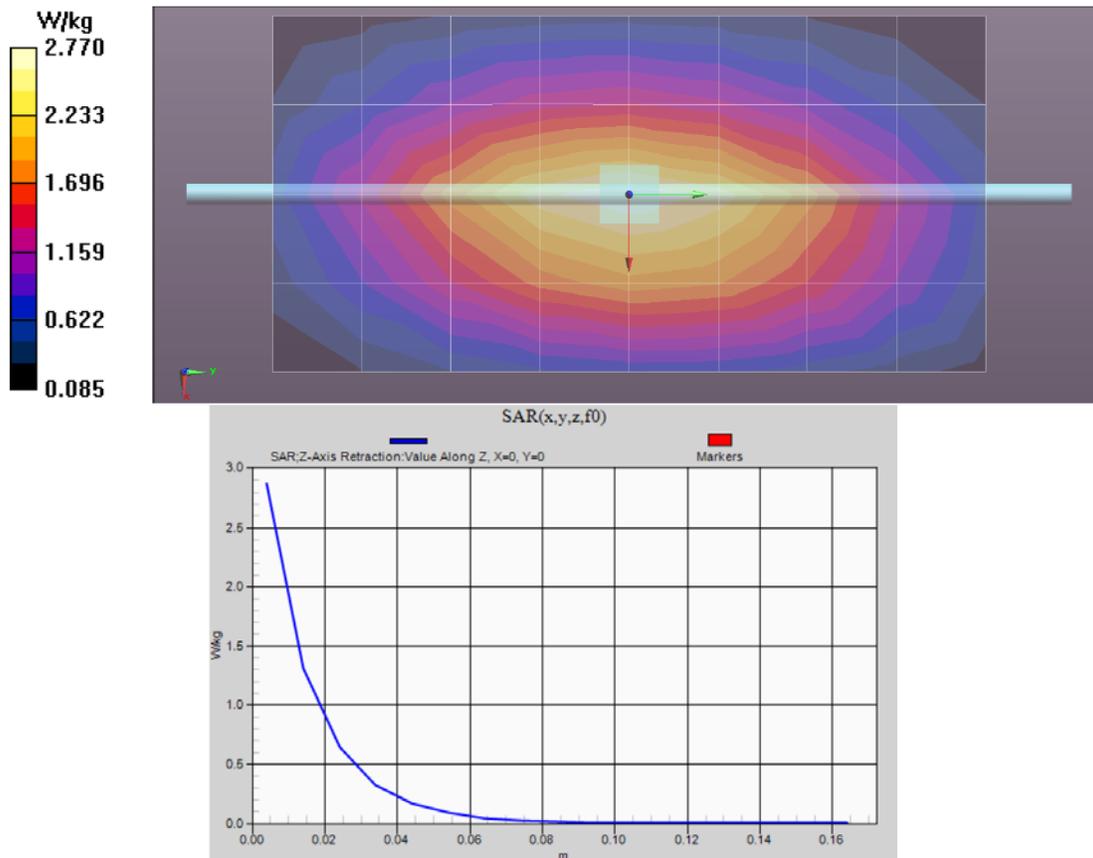
Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.77 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 55.511 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 3.919 mW/g
SAR(1 g) = 2.7 mW/g; SAR(10 g) = 1.75 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 2.86 W/kg

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 2.87 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 6/14/2013 1:08:53 PM

Robot#: DASY5-FL-3 | Run#: ErC-SYSP-2450B-130614-04
 Dipole Model# D2450V2
 Phantom#: OVAL1108
 Tissue Temp: 21.5 (C)
 Serial#: 704
 Test Freq: 2450 (MHz)
 Start Power: 30 (mW)
 Rotation (1D): 0.051 dB
 Adjusted SAR (1W): 53.00 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 2450 MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 55.3$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3147, . Frequency: 2450 MHz, ConvF(4.22, 4.22, 4.22); Calibrated: 1/28/2013
 Electronics: DAE4 Sn1231, Calibrated: 3/12/2013

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x9x1):

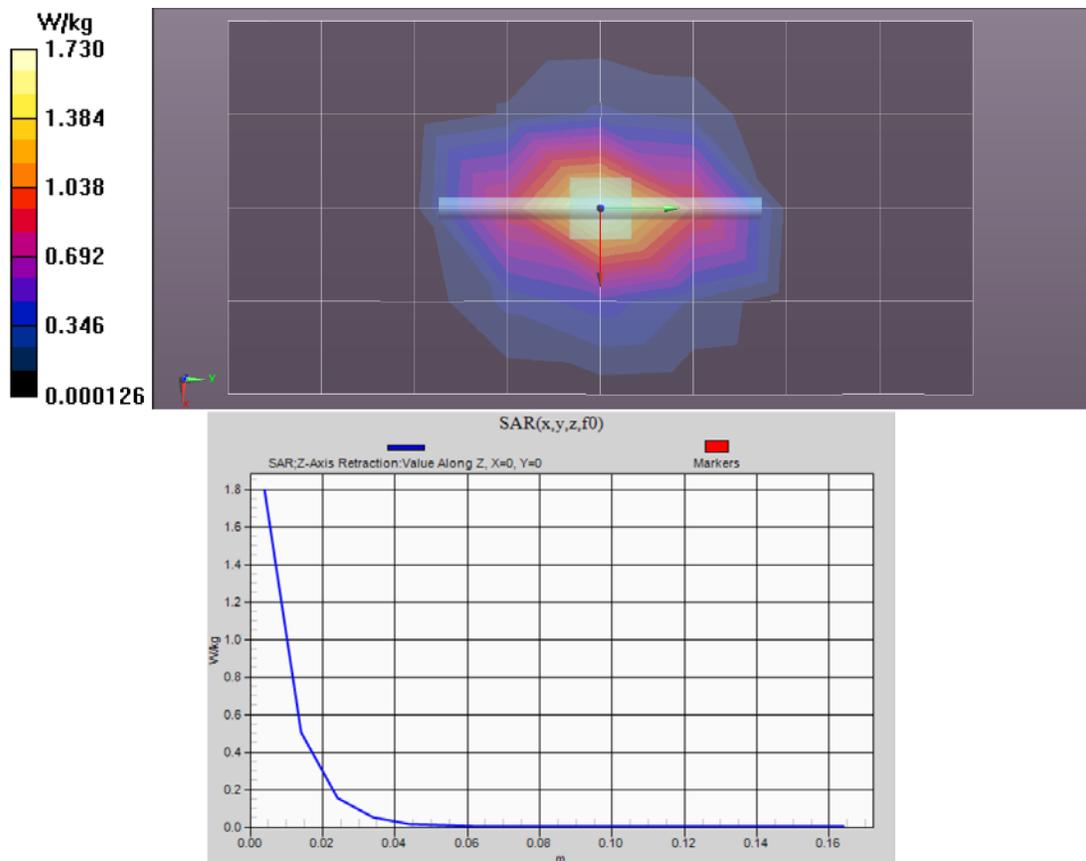
Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.73 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 30.744 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 3.239 mW/g
SAR(1 g) = 1.59 mW/g; SAR(10 g) = 0.734 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 1.79 W/kg

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 1.80 W/kg



APPENDIX E
Worse Case for Band 896-901 MHz and 935-940 MHz DUT Scans
(Shortened Scan and Highest SAR configurations)

Shortened Scan Result Table 24

Motorola Solutions, Inc. EME Laboratory
Date/Time: 6/4/2013 6:19:34 PM

Robot#: DASY5-FL-3 | Run#: CM-Ab-130604-14
 Model#: PMUF1629A
 Phantom#: OVAL1022
 Tissue Temp: 20.3 (C)
 Serial#: 806TPK0004
 Antenna: 85012072001 (internal)
 Test Freq: 896.0000 (MHz)
 Battery: HKNN4013A
 Carry Acc: PMLN5956A
 Audio Acc: None
 Start Power: 2.40 (W)

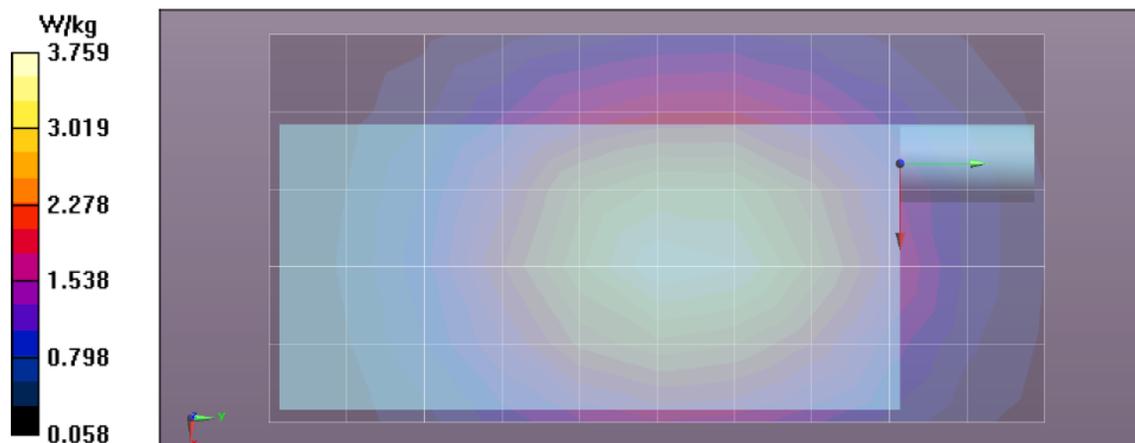
Comments: Shortened scan

Duty Cycle: 1:1.99986, Medium parameters used: $f = 896$ MHz; $\sigma = 1.02$ mho/m; $\epsilon_r = 56$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3147, , Frequency: 896 MHz, ConvF(5.99, 5.99, 5.99); Calibrated: 1/28/2013
 Electronics: DAE4 Sn1231, Calibrated: 3/12/2013

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 54.048 V/m; Power Drift = -0.23 dB
Fast SAR: SAR(1 g) = 3.67 mW/g; SAR(10 g) = 2.53 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 3.81 W/kg

Below 3 GHz-Rev.5/Ab Scan/3-Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 62.215 V/m; Power Drift = -0.34 dB
 Peak SAR (extrapolated) = 4.738 mW/g
SAR(1 g) = 3.66 mW/g; SAR(10 g) = 2.63 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 3.82 W/kg

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 3.57 W/kg



Shortened scan reflect highest SAR producing configuration; approximate run time is 10 minutes.
 Representative full scan run time was 28 minutes.
 “Shortened” scan max calculated SAR using SAR drift: 1-g Avg. = 1.98 mW/g; 10-g Avg. = 1.42 mW/g.
 Zoom scan max calculated SAR using SAR drift (see part 1 section 13.1.3): 1-g Avg. = 1.95 mW/g; 10-g Avg. = 1.41 mW/g. (Run# CM-AB-130604-13, Table 15)

**Body - Highest SAR Configuration Result
Table 15**

**Motorola Solutions, Inc. EME Laboratory
Date/Time: 6/4/2013 5:44:03 PM**

Robot#: DASY5-FL-3 | Run#: CM-Ab-130604-13
 Model#: PMUF1629A
 Phantom#: OVAL1022
 Tissue Temp: 20.3 (C)
 Serial#: 806TPK0004
 Antenna: 85012072001 (internal)
 Test Freq: 896.0000 (MHz)
 Battery: HKNN4013A
 Carry Acc: PMLN5956A
 Audio Acc: None
 Start Power: 2.40 (W)

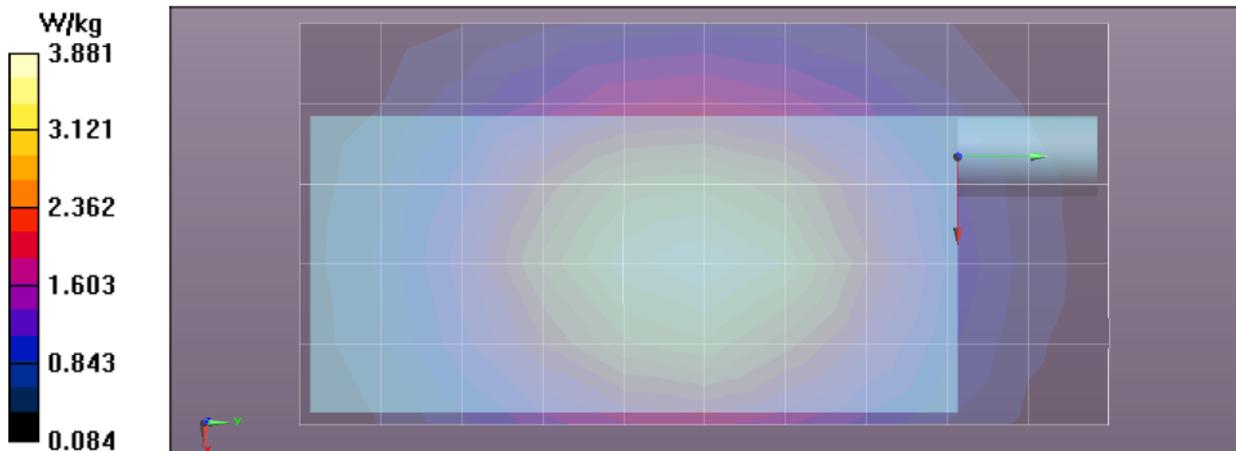
Comments:

Duty Cycle: 1:1.99986, Medium parameters used: $f = 896$ MHz; $\sigma = 1.02$ mho/m; $\epsilon_r = 56$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3147, , Frequency: 896 MHz, ConvF(5.99, 5.99, 5.99); Calibrated: 1/28/2013
 Electronics: DAE4 Sn1231, Calibrated: 3/12/2013

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 51.902 V/m; Power Drift = -0.27 dB
Fast SAR: SAR(1 g) = 3.76 mW/g; SAR(10 g) = 2.61 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 3.89 W/kg

Below 3 GHz-Rev.5/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 51.902 V/m; Power Drift = -0.39 dB
 Peak SAR (extrapolated) = 4.611 mW/g
SAR(1 g) = 3.57 mW/g; SAR(10 g) = 2.57 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 3.75 W/kg

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 3.53 W/kg



**Face - Highest SAR Configuration Result
Table 20**

Motorola Solutions, Inc. EME Laboratory
Date/Time: 6/4/2013 3:46:20 PM

Robot#: DASY5-FL-3 | Run#: ErC-Face-130604-11
 Model#: PMUF1629A
 Phantom#: OVAL1019
 Tissue Temp: 20.5 (C)
 Serial#: 806TPK0002
 Antenna: 85012072001 (internal)
 Test Freq: 896.0000 (MHz)
 Battery: HKNN4013A
 Carry Acc: None
 Audio Acc: None
 Start Power: 2.40 (W)

Comments:

Duty Cycle: 1:1.99986, Medium parameters used: $f = 896$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 42.9$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3147, , Frequency: 896 MHz, ConvF(6.14, 6.14, 6.14); Calibrated: 1/28/2013
 Electronics: DAE4 Sn1231, Calibrated: 3/12/2013

Below 3 GHz-Rev.5/Face Scan/1-Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 52.568 V/m; Power Drift = -0.27 dB

Fast SAR: SAR(1 g) = 2.92 mW/g; SAR(10 g) = 2.05 mW/g (SAR corrected for target medium)

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

Below 3 GHz-Rev.5/Face Scan/1-Area Scan (6x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.91 W/kg

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

Reference Value = 52.568 V/m; Power Drift = -0.47 dB

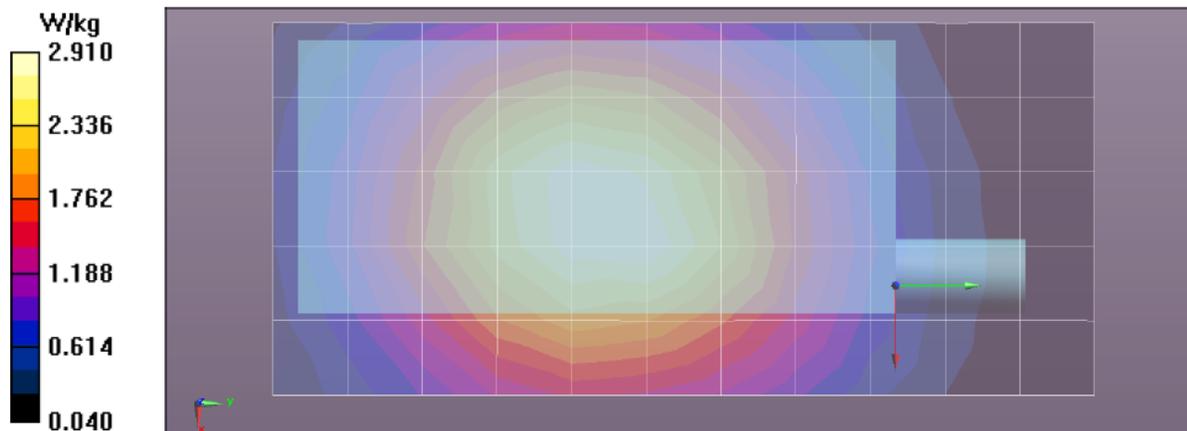
Peak SAR (extrapolated) = 3.605 mW/g

SAR(1 g) = 2.83 mW/g; SAR(10 g) = 2.05 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.97 W/kg

Below 3 GHz-Rev.5/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.85 W/kg



APPENDIX F

DUT Scans FCC Rule Part 90 (896-901 MHz and 935-940 MHz) and Part 15 (2402-2480 MHz)

***All scans are applicable for overall band and Industry Canada Frequency Range (896-901 MHz, 935-940 MHz and 2402-2480 MHz) within Part 90 and Part 15**

896-901 MHz
Assessments at the Body with Body worn PMLN5956A
Table 14

Motorola Solutions, Inc. EME Laboratory
 Date/Time: 6/4/2013 12:46:13 PM

Robot#: DASY5-FL-3 | Run#: ErC-Ab-130604-06
 Model#: PMUF1629A
 Phantom#: OVAL1022
 Tissue Temp: 20.5 (C)
 Serial#: 806TPK0002
 Antenna: 85012072001 (internal)
 Test Freq: 896.0000 (MHz)
 Battery: HKNN4013A
 Carry Acc: PMLN5956A
 Audio Acc: PMLN5957A
 Start Power: 2.40 (W)

Comments:

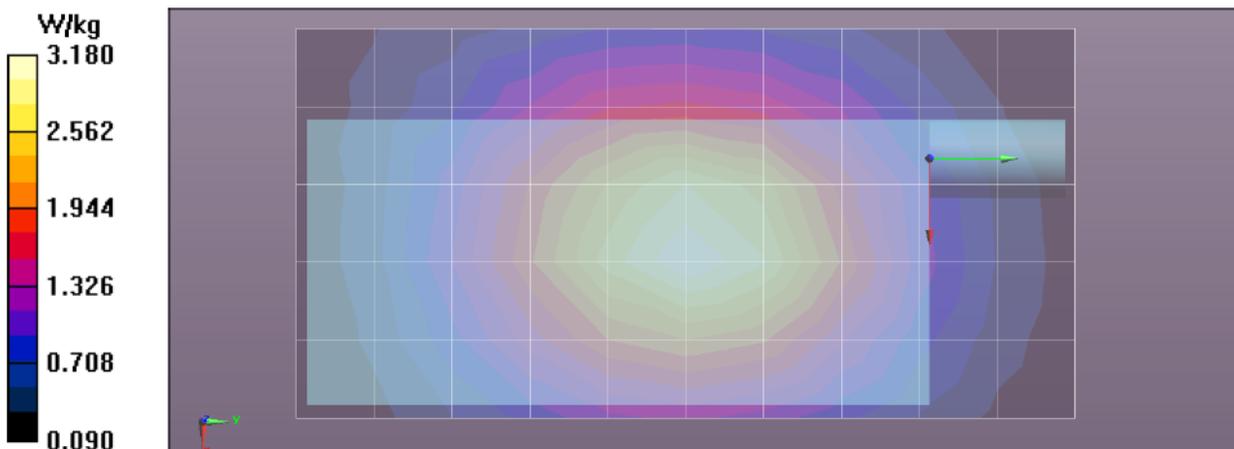
Duty Cycle: 1:1.99986, Medium parameters used: $f = 896$ MHz; $\sigma = 1.02$ mho/m; $\epsilon_r = 56$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3147, , Frequency: 896 MHz, ConvF(5.99, 5.99, 5.99); Calibrated: 1/28/2013
 Electronics: DAE4 Sn1231, Calibrated: 3/12/2013

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 49.617 V/m; Power Drift = -0.25 dB
Fast SAR: SAR(1 g) = 3.1 mW/g; SAR(10 g) = 2.13 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 3.23 W/kg

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 3.18 W/kg

Below 3 GHz-Rev.5/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 49.617 V/m; Power Drift = -0.35 dB
 Peak SAR (extrapolated) = 3.901 mW/g
SAR(1 g) = 2.98 mW/g; SAR(10 g) = 2.12 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 3.10 W/kg

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 2.91 W/kg



**Assessments of wireless BT configuration at the Body
Table 15**

**Motorola Solutions, Inc. EME Laboratory
Date/Time: 6/4/2013 5:44:03 PM**

Robot#: DASY5-FL-3 | Run#: CM-Ab-130604-13
 Model#: PMUF1629A
 Phantom#: OVAL1022
 Tissue Temp: 20.3 (C)
 Serial#: 806TPK0004
 Antenna: 85012072001 (internal)
 Test Freq: 896.0000 (MHz)
 Battery: HKNN4013A
 Carry Acc: PMLN5956A
 Audio Acc: None
 Start Power: 2.40 (W)

Comments:

Duty Cycle: 1:1.99986, Medium parameters used: $f = 896$ MHz; $\sigma = 1.02$ mho/m; $\epsilon_r = 56$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3147, , Frequency: 896 MHz, ConvF(5.99, 5.99, 5.99); Calibrated: 1/28/2013
 Electronics: DAE4 Sn1231, Calibrated: 3/12/2013

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

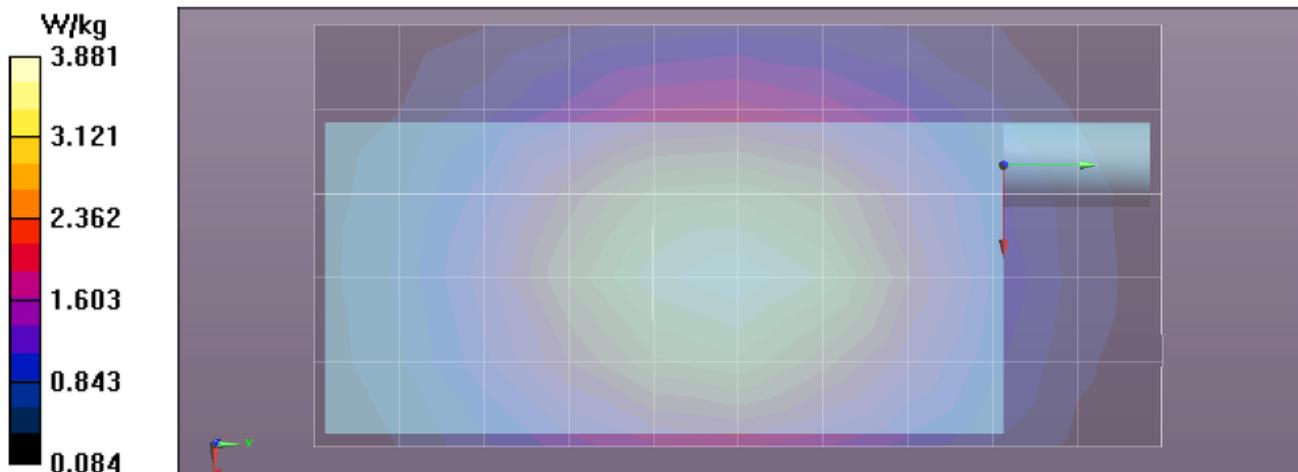
Reference Value = 51.902 V/m; Power Drift = -0.27 dB
Fast SAR: SAR(1 g) = 3.76 mW/g; SAR(10 g) = 2.61 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 3.89 W/kg

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

Reference Value = 51.902 V/m; Power Drift = -0.39 dB
 Peak SAR (extrapolated) = 4.611 mW/g
SAR(1 g) = 3.57 mW/g; SAR(10 g) = 2.57 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 3.75 W/kg

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 3.53 W/kg



935-940 MHz
Assessments at the Body with Body worn PMLN5956A
Table 17

Motorola Solutions, Inc. EME Laboratory
 Date/Time: 6/4/2013 1:43:53 PM

Robot#: DASY5-FL-3 | Run#: ErC-Ab-130604-08
 Model#: PMUF1629A
 Phantom#: OVAL1022
 Tissue Temp: 20.5 (C)
 Serial#: 806TPK0002
 Antenna: 85012072001 (internal)
 Test Freq: 935.0000 (MHz)
 Battery: HKNN4013A
 Carry Acc: PMLN5956A
 Audio Acc: PMLN5957A
 Start Power: 2.40 (W)

Comments:

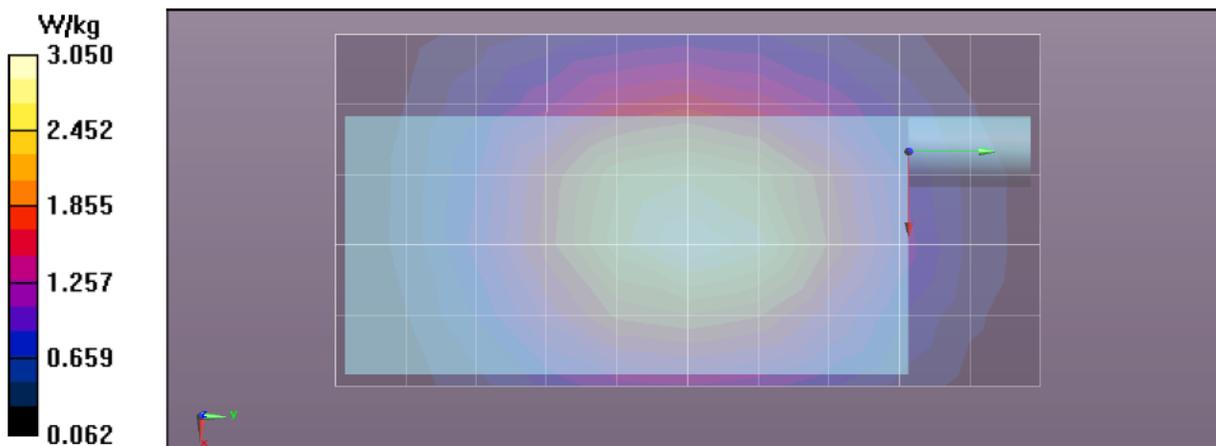
Duty Cycle: 1:1.99986, Medium parameters used: $f = 935 \text{ MHz}$; $\sigma = 1.1 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$
 Probe: ES3DV3 - SN3147, Frequency: 935 MHz, ConvF(5.99, 5.99, 5.99); Calibrated: 1/28/2013
 Electronics: DAE4 Sn1231, Calibrated: 3/12/2013

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Reference Value = 47.208 V/m; Power Drift = -0.20 dB
Fast SAR: SAR(1 g) = 2.9 mW/g; SAR(10 g) = 2 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 3.10 W/kg

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (6x11x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 3.05 W/kg

Below 3 GHz-Rev.5/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 = 47.208 V/m; Power Drift = -0.36 dB
 Peak SAR (extrapolated) = 3.550 mW/g
SAR(1 g) = 2.76 mW/g; SAR(10 g) = 1.98 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 2.97 W/kg

Below 3 GHz-Rev.5/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) = 2.58 W/kg



Assessments of wireless BT configuration at the Body
Table 18

Motorola Solutions, Inc. EME Laboratory
 Date/Time: 6/4/2013 2:09:57 PM

Robot#: DASY5-FL-3 | Run#: ErC-Ab-130604-09
 Model#: PMUF1629A
 Phantom#: OVAL1022
 Tissue Temp: 20.5 (C)
 Serial#: 806TPK0002
 Antenna: 85012072001 (internal)
 Test Freq: 935.0000 (MHz)
 Battery: HKNN4013A
 Carry Acc: PMLN5956A
 Audio Acc: None
 Start Power: 2.39 (W)

Comments:

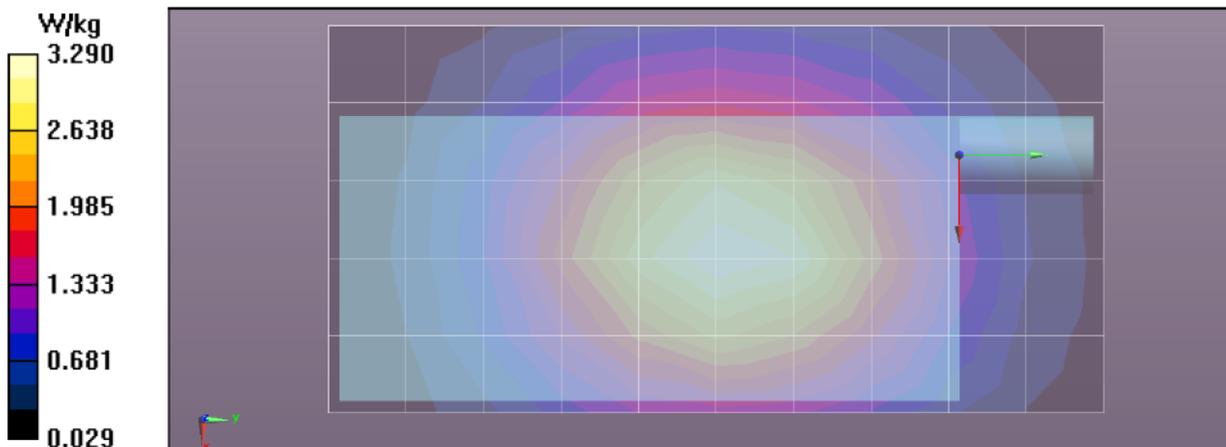
Duty Cycle: 1:1.99986, Medium parameters used: f = 935 MHz; $\sigma = 1.1$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3147, , Frequency: 935 MHz, ConvF(5.99, 5.99, 5.99); Calibrated: 1/28/2013
 Electronics: DAE4 Sn1231, Calibrated: 3/12/2013

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 47.877 V/m; Power Drift = -0.26 dB
Fast SAR: SAR(1 g) = 3.14 mW/g; SAR(10 g) = 2.18 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 3.33 W/kg

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 3.29 W/kg

Below 3 GHz-Rev.5/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 47.877 V/m; Power Drift = -0.34 dB
 Peak SAR (extrapolated) = 4.334 mW/g
SAR(1 g) = 3.07 mW/g; SAR(10 g) = 2.19 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 3.24 W/kg

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 3.07 W/kg



**896-901 MHz
Assessments at the Face
Table 20**

**Motorola Solutions, Inc. EME Laboratory
Date/Time: 6/4/2013 3:46:20 PM**

Robot#: DASY5-FL-3 | Run#: ErC-Face-130604-11
 Model#: PMUF1629A
 Phantom#: OVAL1019
 Tissue Temp: 20.5 (C)
 Serial#: 806TPK0002
 Antenna: 85012072001 (internal)
 Test Freq: 896.0000 (MHz)
 Battery: HKNN4013A
 Carry Acc: None
 Audio Acc: None
 Start Power: 2.40 (W)

Comments:

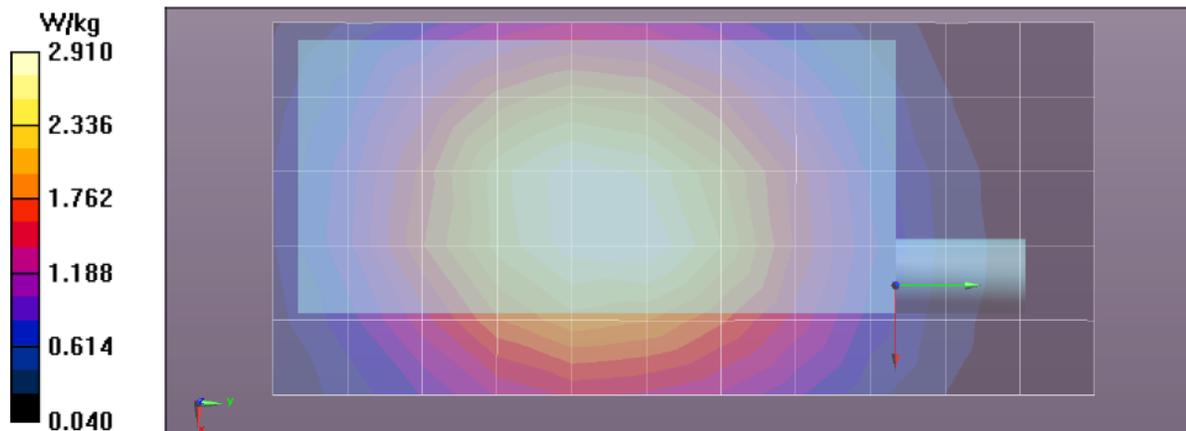
Duty Cycle: 1:1.99986, Medium parameters used: f = 896 MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 42.9$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3147, , Frequency: 896 MHz, ConvF(6.14, 6.14, 6.14); Calibrated: 1/28/2013
 Electronics: DAE4 Sn1231, Calibrated: 3/12/2013

Below 3 GHz-Rev.5/Face Scan/1-Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 52.568 V/m; Power Drift = -0.27 dB
Fast SAR: SAR(1 g) = 2.92 mW/g; SAR(10 g) = 2.05 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 3.00 W/kg

Below 3 GHz-Rev.5/Face Scan/1-Area Scan (6x12x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.91 W/kg

Below 3 GHz-Rev.5/Face Scan/3-Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 52.568 V/m; Power Drift = -0.47 dB
 Peak SAR (extrapolated) = 3.605 mW/g
SAR(1 g) = 2.83 mW/g; SAR(10 g) = 2.05 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 2.97 W/kg

Below 3 GHz-Rev.5/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 2.85 W/kg



**935-940 MHz
Assessments at the Face
Table 22**

**Motorola Solutions, Inc. EME Laboratory
Date/Time: 6/4/2013 4:58:41 PM**

Robot#: DASY5-FL-3 | Run#: CM-Face-130604-12
 Model#: PMUF1629A
 Phantom#: OVAL1019
 Tissue Temp: 20.5 (C)
 Serial#: 806TPK0002
 Antenna: 85012072001 (internal)
 Test Freq: 935.0000 (MHz)
 Battery: HKNN4013A
 Carry Acc: None
 Audio Acc: None
 Start Power: 2.40 (W)

Comments:

Duty Cycle: 1:1.99986, Medium parameters used: $f = 935$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 41.9$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3147, , Frequency: 935 MHz, ConvF(6.14, 6.14, 6.14); Calibrated: 1/28/2013
 Electronics: DAE4 Sn1231, Calibrated: 3/12/2013

Below 3 GHz-Rev.5/Face Scan/1-Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

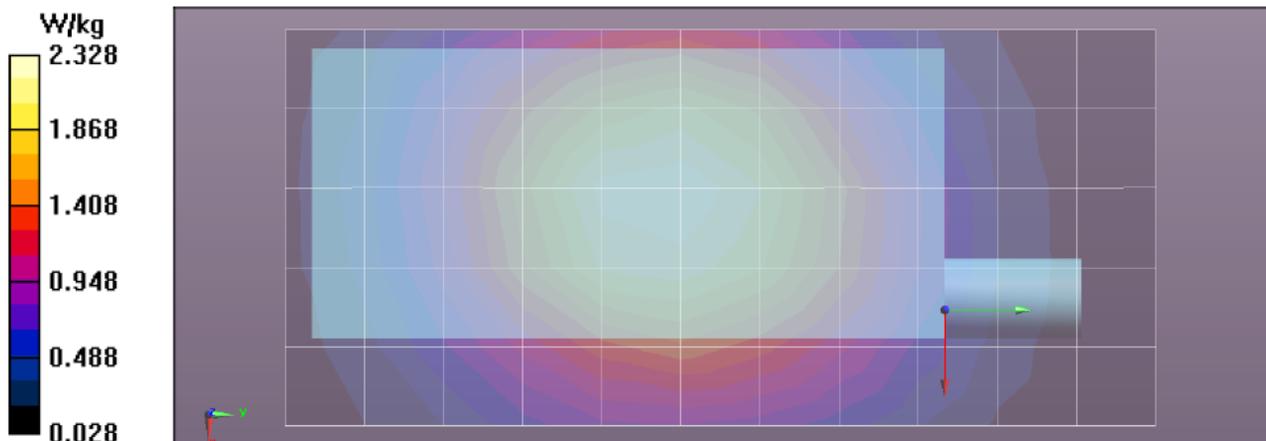
Reference Value = 43.287 V/m; Power Drift = -0.21 dB
Fast SAR: SAR(1 g) = 2.24 mW/g; SAR(10 g) = 1.58 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 2.36 W/kg

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

Reference Value = 43.287 V/m; Power Drift = -0.35 dB
 Peak SAR (extrapolated) = 3.006 mW/g
SAR(1 g) = 2.19 mW/g; SAR(10 g) = 1.59 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 2.29 W/kg

Below 3 GHz-Rev.5/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.28 W/kg



**Assessments for Bluetooth
Table 23**

**Motorola Solutions, Inc. EME Laboratory
Date/Time: 6/14/2013 2:35:45 PM**

Robot#: DASY5-FL-3 | Run#: ErC-Ab-130614-05
 Model#: PMUF1629A
 Phantom#: OVAL1108
 Tissue Temp: 21.5 (C)
 Serial#: 806TPK0002
 Antenna: PMLF4122A (BT Antenna)
 Test Freq: 2441.0000 (MHz)
 Battery: HKNN4013A
 Carry Acc: PMLN5956A
 Audio Acc: None
 Start Power: 0.004 (W)

Comments:

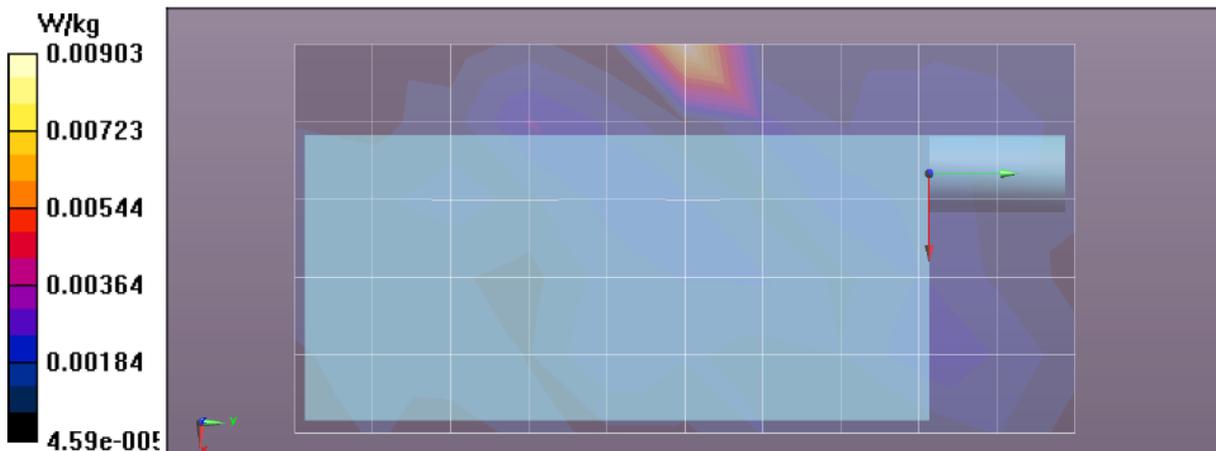
Duty Cycle: 1:1, Medium parameters used: $f = 2441$ MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 55.4$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3147, , Frequency: 2441 MHz, ConvF(4.22, 4.22, 4.22); Calibrated: 1/28/2013
 Electronics: DAE4 Sn1231, Calibrated: 3/12/2013

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 1.105 V/m; Power Drift = 0.66 dB
Fast SAR: SAR(1 g) = 0.00282 mW/g; SAR(10 g) = 0.00121 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.0101 W/kg

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.00903 W/kg

Below 3 GHz-Rev.5/Ab Scan/3-Zoom Scan (8x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 1.105 V/m; Power Drift = 0.71 dB
 Peak SAR (extrapolated) = 0.00904 mW/g
SAR(1 g) = 0.00202 mW/g; SAR(10 g) = 0.000732 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.00249 W/kg

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.00225 W/kg



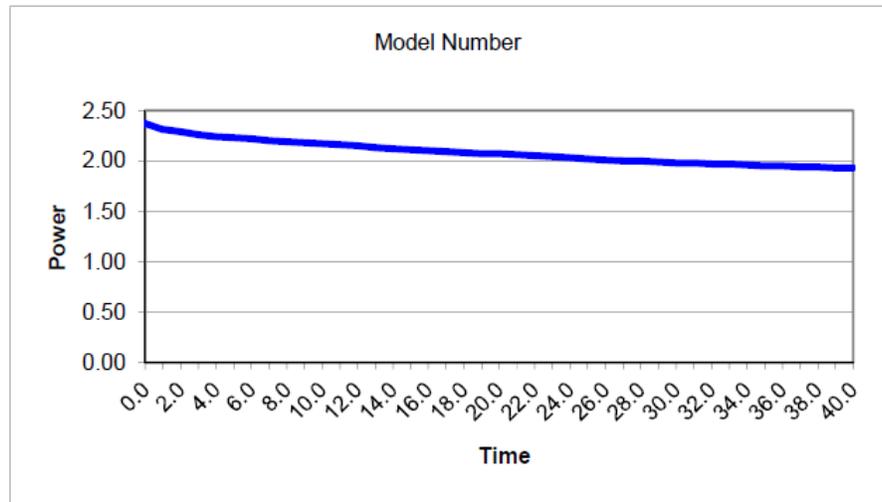
APPENDIX G DUT Supplementary Data (Power slump)

Model # PMUF1629A
Serial # 806TPK0004

Battery	# HKNN4013A	Transmit Mode	50% TDMA
Frequency	896.0000 MHz	Audio Accessory	None
Date	6/14/2013		

TX TIME (Minutes)	Measured Power (Watts)
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0.0	2.37
1.0	2.31
2.0	2.29
3.0	2.26
4.0	2.24
5.0	2.23
6.0	2.22
7.0	2.20
8.0	2.19
9.0	2.18
10.0	2.17
11.0	2.16
12.0	2.15
13.0	2.13
14.0	2.12
15.0	2.11
16.0	2.10
17.0	2.09
18.0	2.08
19.0	2.07
20.0	2.07
21.0	2.06
22.0	2.05
23.0	2.04
24.0	2.03
25.0	2.02
26.0	2.01
27.0	2.00
28.0	2.00
29.0	1.99
30.0	1.98
31.0	1.98
32.0	1.97
33.0	1.97
34.0	1.96
35.0	1.95
36.0	1.95
37.0	1.94
38.0	1.94
39.0	1.93
40.0	1.93



APPENDIX H
DUT Test Position Photos

Photos available in Exhibit 7B

APPENDIX I
DUT, Body worn and Audio Accessory Photos

Photos available in Exhibit 7B