

DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2

<p style="text-align: center;">Motorola Solutions Inc. EME Test Laboratory 8000 West Sunrise Blvd Fort Lauderdale, FL. 33322</p>	<p>Date of Report: 4/22/2013 Report Revision: O Report ID: SR11013 PMUD3255A VHF Rev O 130422</p>
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Responsible Engineer: Michael Sailsman(Senior Staff EME Engineer)
Report Author: Michael Sailsman (Senior Staff EME Engineer)
Date/s Tested: 3/8/13
Manufacturer/Location: Motorola, Penang
Sector/Group/Div.: Radio Product & Accessories
Date submitted for test: 3/1/13
DUT Description: RMV2080 VHF BRUS, 8Ch,Non-Display, Fixed Antenna, 2.0Watts, Black, Li-Ion
Test TX mode(s): CW (PTT)
Max. Power output: 2.0 W
Nominal Power: 1.0-1.9 W
Tx Frequency Bands: 150.8MHz - 170MHz
Signaling type: FM
Model(s) Tested: PMUD3255A
Model(s) Certified: PMUD3255A
Serial Number(s): 024TPD0046, 024TPD0073
Classification: Occupational/Controlled
FCC ID: AZ489FT3832; Rule Part 90 (150.8-170MHz)

* 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. Results outside FCC bands are not applicable for FCC compliance demonstration. 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.

 Deanna Zakharia EMS EME Lab Senior Resource Manager, Laboratory Director Approval Date: 4/22/2013	<p>Certification Date: 4/22/2013 Certification No.: L1130323</p>
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APPENDIX D
System Check Scans

Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/8/2013 6:19:42 AM

Robot#: DASY5-FL-2 | Run#: JsT-SYSP-300B-130308-01
 Dipole Model#: D300V3
 Phantom#: OVAL1090
 Tissue Temp: 21.9 (C)
 Serial#: 1015
 Test Freq: 300 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.042 dB
 Adjusted SAR (1W): 2.77 mW/g (1g)

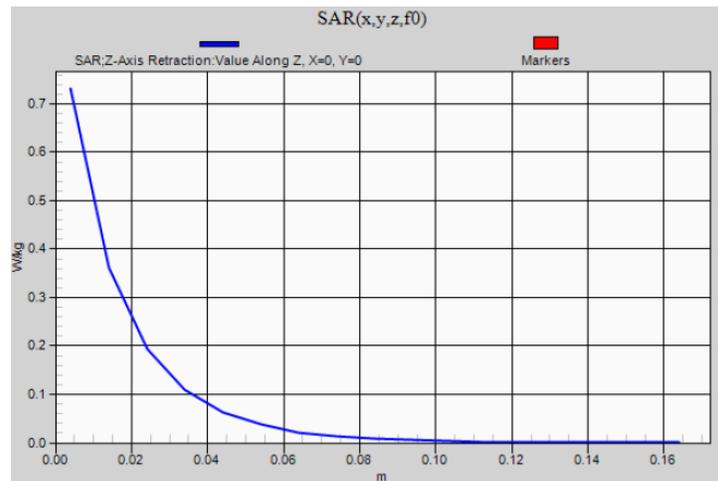
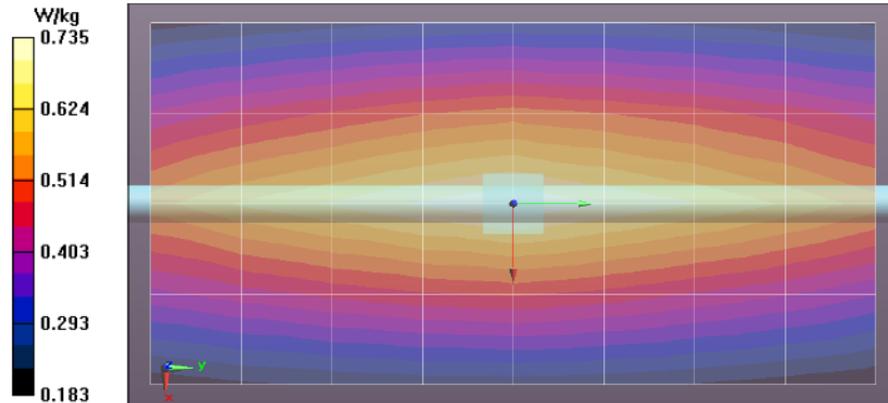
Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 300$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 56.5$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3301, ConvF(7.07, 7.07, 7.07); Calibrated: 7/30/2012
 Electronics: DAE3 Sn363, Calibrated: 1/28/2013

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement grid:
 dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.735 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 = 28.981 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 0.994 mW/g
 SAR(1 g) = 0.693 mW/g; SAR(10 g) = 0.475 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.731 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: 3/8/2013 9:32:28 AM

Robot#: DASY5-FL-2 | Run#: JsT-SYSP-300H-130308-05
Dipole Model# D300V3
Phantom#: OVAL1109
Tissue Temp: 21.0 (C)
Serial#: 1015
Test Freq: 300 (MHz)
Start Power: 250 (mW)
Rotation (1D): 0.049 dB
Adjusted SAR (1W): 2.84 mW/g (1g)

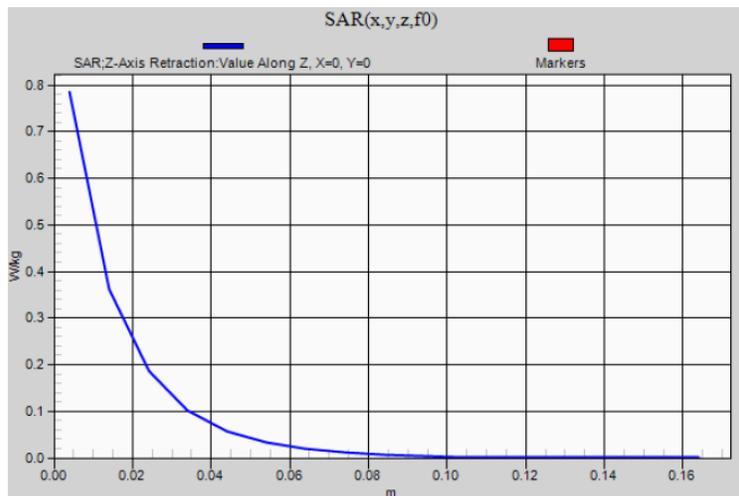
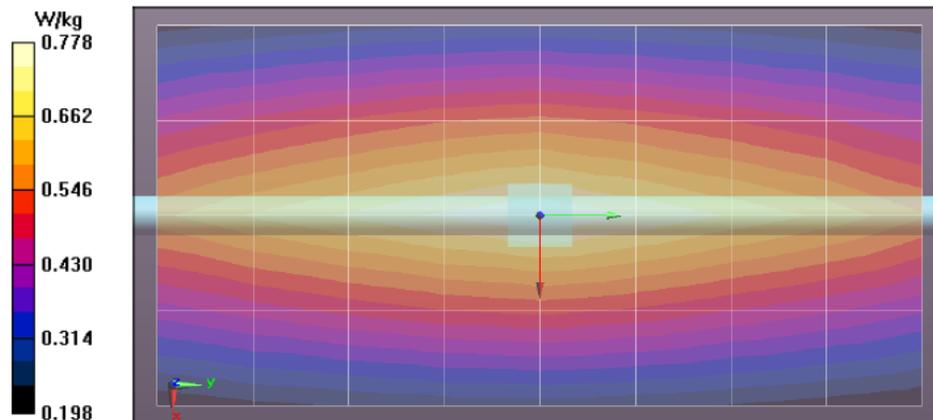
Comments:

Duty Cycle: 1:1, Medium parameters used: f = 300 MHz; sigma = 0.89 mho/m; epsilon = 43.3; rho = 1000 kg/m^3
Probe: ES3DV3 - SN3301, , ConvF(7.21, 7.21, 7.21); Calibrated: 7/30/2012
Electronics: DAE3 Sn363, Calibrated: 1/28/2013

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.778 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 = 29.666 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.133 mW/g
SAR(1 g) = 0.711 mW/g; SAR(10 g) = 0.477 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.780 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) = 0.785 W/kg



APPENDIX E
DUT Scans (Shortened Scan and Highest SAR configurations)

Shortened Scan Result Table 17

Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/8/2013 10:31:20 AM

Robot#: DASY5-FL-2 | Run#: JsT-Face-130308-09
 Model#: PMUD3255A
 Phantom#: OVAL1109
 Tissue Temp: 21.0 (C)
 Serial#: 024TPD0046
 Antenna: Fixed
 Test Freq: 170.0000 (MHz)
 Battery: PMNN4434AR (HKNN4016A)
 Carry Acc: None-Front
 Audio Acc: None
 Start Power: 2.04 (W)

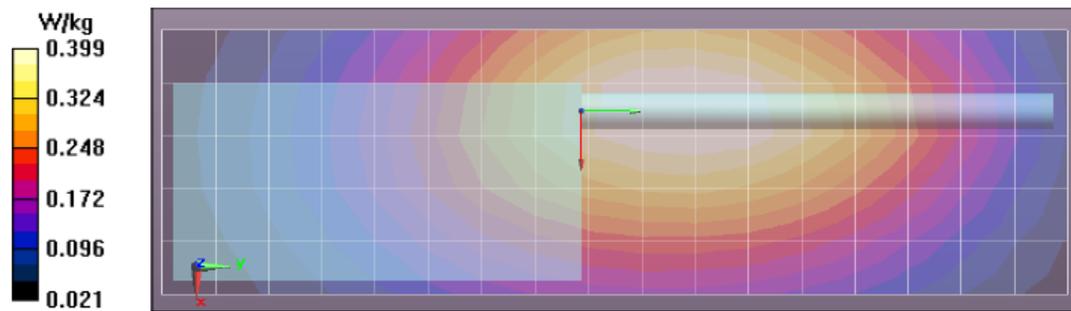
Comments: Shortened Scan

Duty Cycle: 1:1, Medium parameters used: $f = 170$ MHz; $\sigma = 0.77$ mho/m; $\epsilon_r = 49.2$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3301, , ConvF(8, 8, 8); Calibrated: 7/30/2012
 Electronics: DAE3 Sn363, Calibrated: 1/28/2013

Below 3 GHz-Rev.5/Face Scan/1-Area Scan (51x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 23.977 V/m; Power Drift = -0.67 dB
Fast SAR: SAR(1 g) = 0.391 mW/g; SAR(10 g) = 0.297 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.409 W/kg

Below 3 GHz-Rev.5/Face Scan/3-Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 24.313 V/m; Power Drift = -0.43 dB
 Peak SAR (extrapolated) = 0.553 mW/g
SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.315 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.430 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) = 0.376 W/kg



Shortened scan reflect highest SAR producing configuration; approximate run time is 7 minutes.
 Representative full scan run time was 21 minutes.
 “Shortened” scan max calculated SAR using SAR drift: 1-g Avg. = 0.228 mW/g; 10-g Avg. = 0.174 mW/g.
 Zoom scan max calculated SAR using SAR drift (see part 1 table 16): 1-g Avg. = 0.227 mW/g; 10-g Avg. = 0.172mW/g.

Body - Highest SAR Configuration Result
Table 14
Motorola Solutions, Inc. EME Laboratory
 Date/Time: 3/8/2013 7:37:24 AM

Robot#: DASY5-FL-2 | Run#: JsT-Ab-130308-04
 Model#: PMUD3255A
 Phantom#: OVAL1090
 Tissue Temp: 21.3 (C)
 Serial#: 024TPD0073
 Antenna: Fixed
 Test Freq: 170.0000 (MHz)
 Battery: PMNN4434AR
 Carry Acc: PMLN6455A
 Audio Acc: HMN9026D
 Start Power: 2.04 (W)

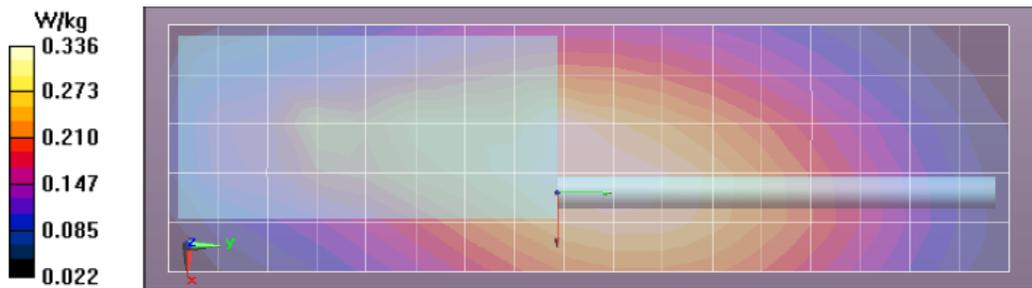
Comments: Shortened Scan

Duty Cycle: 1:1, Medium parameters used: $f = 170$ MHz; $\sigma = 0.8$ mho/m; $\epsilon_r = 60.1$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3301, , ConvF(7.8, 7.8, 7.8); Calibrated: 7/30/2012
 Electronics: DAE3 Sn363, Calibrated: 1/28/2013

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 21.353 V/m; Power Drift = -0.83 dB
Fast SAR: SAR(1 g) = 0.326 mW/g; SAR(10 g) = 0.247 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.344 W/kg

Below 3 GHz-Rev.5/Ab Scan/3-Zoom Scan 2 (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 23.444 V/m; Power Drift = -0.71 dB
 Peak SAR (extrapolated) = 0.542 mW/g
SAR(1 g) = 0.381 mW/g; SAR(10 g) = 0.288 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.404 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) = 0.297 W/kg



Face - Highest SAR Configuration Result
Table 16
Motorola Solutions, Inc. EME Laboratory
 Date/Time: 3/8/2013 10:31:20 AM

Robot#: DASY5-FL-2 | Run#: JsT-Face-130308-06
 Model#: PMUD3255A
 Phantom#: OVAL1109
 Tissue Temp: 20.9 (C)
 Serial#: 024TPD0046
 Antenna: Fixed
 Test Freq: 170.0000 (MHz)
 Battery: PMNN4434AR (HKNN4016A)
 Carry Acc: None-Front
 Audio Acc: None
 Start Power: 2.04 (W)

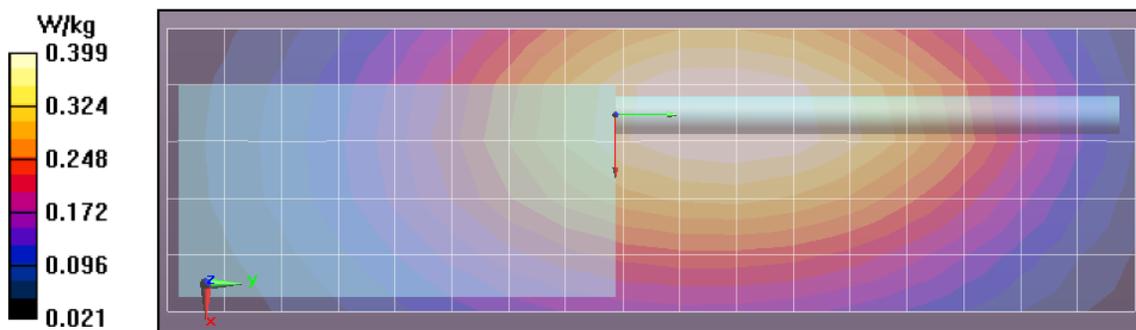
Comments: Full Scan

Duty Cycle: 1:1, Medium parameters used: $f = 170$ MHz; $\sigma = 0.77$ mho/m; $\epsilon_r = 49.2$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3301, , ConvF(8, 8, 8); Calibrated: 7/30/2012
 Electronics: DAE3 Sn363, Calibrated: 1/28/2013

Below 3 GHz-Rev.5/Face Scan/1-Area Scan (51x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 23.977 V/m; Power Drift = -0.67 dB
Fast SAR: SAR(1 g) = 0.391 mW/g; SAR(10 g) = 0.297 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.409 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 = 23.977 V/m; Power Drift = -0.87 dB
 Peak SAR (extrapolated) = 0.501 mW/g
SAR(1 g) = 0.371 mW/g; SAR(10 g) = 0.282 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.387 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) = 0.376 W/kg



APPENDIX F
DUT Scans - FCC Part 90 (150.8-170 MHz band)

Assessments at the Body with Body worn PMLN6455A

Table 14

Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/8/2013 7:37:24 AM

Robot#: DASY5-FL-2 | Run#: JsT-Ab-130308-04
 Model#: PMUD3255A
 Phantom#: OVAL1090
 Tissue Temp: 21.3 (C)
 Serial#: 024TPD0073
 Antenna: Fixed
 Test Freq: 170.0000 (MHz)
 Battery: PMNN4434AR
 Carry Acc: PMLN6455A
 Audio Acc: HMN9026D
 Start Power: 2.04 (W)

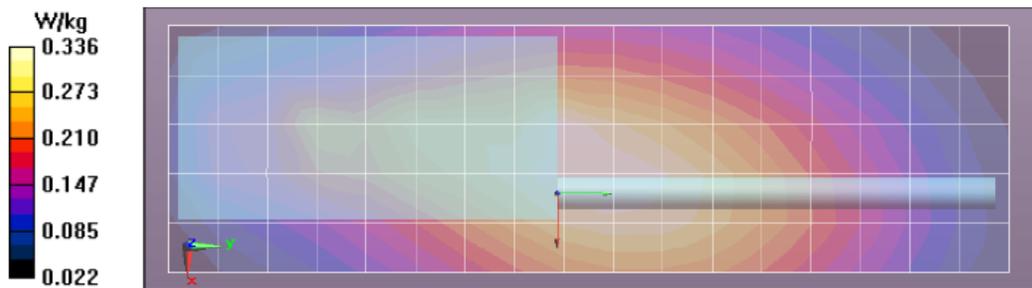
Comments: Shortened Scan

Duty Cycle: 1:1, Medium parameters used: $f = 170 \text{ MHz}$; $\sigma = 0.8 \text{ mho/m}$; $\epsilon_r = 60.1$; $\rho = 1000 \text{ kg/m}^3$
 Probe: ES3DV3 - SN3301, , ConvF(7.8, 7.8, 7.8); Calibrated: 7/30/2012
 Electronics: DAE3 Sn363, Calibrated: 1/28/2013

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x171x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Reference Value = 21.353 V/m; Power Drift = -0.83 dB
Fast SAR: SAR(1 g) = 0.326 mW/g; SAR(10 g) = 0.247 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.344 W/kg

Below 3 GHz-Rev.5/Ab Scan/3-Zoom Scan 2 (6x6x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 23.444 V/m; Power Drift = -0.71 dB
 Peak SAR (extrapolated) = 0.542 mW/g
SAR(1 g) = 0.381 mW/g; SAR(10 g) = 0.288 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.404 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) = 0.297 W/kg



Assessment at the Body with other audio accessories

Assessment per “KDB 643646 D01 Body SAR Test Consideration for Audio Accessories without Built-in Antenna; Sec 1, A. when overall < 4.0 W/kg, SAR tested for that audio accessory is not necessary.” This was applicable to all remaining accessories.

Assessment at the Face Table 17

Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/8/2013 10:31:20 AM

Robot#: DASY5-FL-2 | Run#: JsT-Face-130308-09
 Model#: PMUD3255A
 Phantom#: OVAL1109
 Tissue Temp: 21.0 (C)
 Serial#: 024TPD0046
 Antenna: Fixed
 Test Freq: 170.0000 (MHz)
 Battery: PMNN4434AR (HKNN4016A)
 Carry Acc: None-Front
 Audio Acc: None
 Start Power: 2.04 (W)

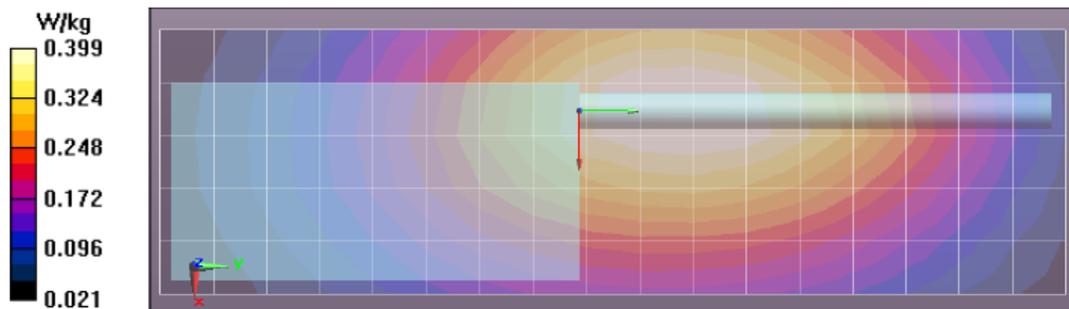
Comments: Shortened Scan

Duty Cycle: 1:1, Medium parameters used: $f = 170$ MHz; $\sigma = 0.77$ mho/m; $\epsilon_r = 49.2$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3301, , ConvF(8, 8, 8); Calibrated: 7/30/2012
 Electronics: DAE3 Sn363, Calibrated: 1/28/2013

Below 3 GHz-Rev.5/Face Scan/1-Area Scan (51x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 23.977 V/m; Power Drift = -0.67 dB
Fast SAR: SAR(1 g) = 0.391 mW/g; SAR(10 g) = 0.297 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.409 W/kg

Below 3 GHz-Rev.5/Face Scan/3-Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 24.313 V/m; Power Drift = -0.43 dB
 Peak SAR (extrapolated) = 0.553 mW/g
SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.315 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.430 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) = 0.376 W/kg

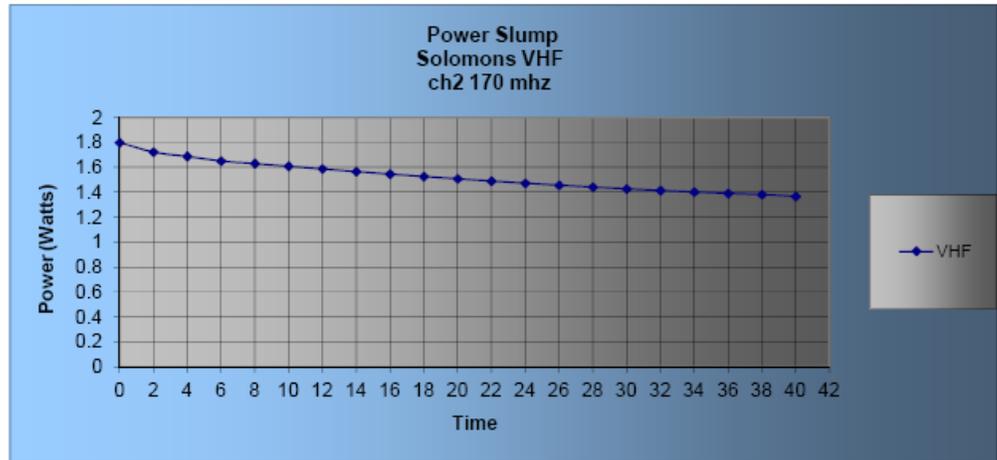


APPENDIX G

DUT Supplementary Data (Power slump)

Date: 3/19/13
 Model Number: PMUD3255A
 Battery: PMNN4434AR

Time (min)	dBm	Watts
0	32.54	1.797931
2	32.36	1.722406
4	32.26	1.68667
6	32.17	1.649693
8	32.12	1.630298
10	32.06	1.608626
12	32	1.58681
14	31.94	1.565719
16	31.88	1.545656
18	31.83	1.526312
20	31.78	1.507095
22	31.72	1.489441
24	31.67	1.472184
26	31.62	1.455605
28	31.58	1.44081
30	31.54	1.426625
32	31.5	1.413677
34	31.46	1.401611
36	31.43	1.390204
38	31.4	1.381008
40	31.35	1.366053



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