



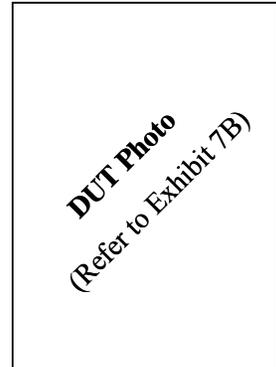
FCC ID: AZ489FT7040

DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 3 of 3

Enterprise Mobility Solutions
EME Test Laboratory
 8000 West Sunrise Blvd
 Fort Lauderdale, FL. 33322.

Date of Report: 10/01/09
Report Revision: B
Report ID: SAR rpt_H97TGD9PW1AN (WITH QA00569AA AND QA00575AA)_Rev B_091001_SR7228

Responsible Engineer: Stephen C. Whalen (Principal Staff Eng.)
Report Author: Stephen C. Whalen (Principal Staff Eng.)
Date/s Tested: 04/01/09-05/04/09
Manufacturer/Location: Penang
Sector/Group/Div.: EMS
Date submitted for test: 3/31/09
DUT Description: 380-470 MHz 1-5W, 764-870 MHz 1-3W, 6.25 kHz / 12.5 kHz / 25 kHz, Basic Top Display Model W/GPS. Capable of digital and analog FM transmission. Also capable of TDMA transmission
Test TX mode(s): CW
Max. Power output: 5.7W (UHF1), 2.99W (700 MHz), 3.6W (800 MHz)
Nominal Power: 5.0W (UHF1), 2.5W (700 MHz), 3.0W (800 MHz)
Tx Frequency Bands: 380-470 MHz (UHF1) & 764-776 MHz, 794-806 MHz, 806-824 MHz, 851-870 MHz(7/800 MHz)
Signaling type: FM and TDMA
Model(s) Tested: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA)
Model(s) Certified: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA)
Serial Number(s): Q02KK412, Q02KK40M
Classification: Occupational/Controlled
Rule Part(s): *90 (406.1-470MHz, 763-775MHz, 793-805MHz, 806-824MHz, 851-869MHz)



* SAR results outside of Part 90 are not applicable for FCC compliance demonstration.

Max. Calc. : 1-g Avg. SAR: 6.74 W/kg (Body); 10-g Avg. SAR: 4.42 W/kg (Body)
Max. Calc. : 1-g Avg. SAR: 4.63 W/kg (Face); 10-g Avg. SAR: 3.53 W/kg (Face)

The test results clearly demonstrate compliance with FCC Occupational/Controlled RF Exposure limits of 8 W/kg per the requirements of 47 CFR 2.1093(d). The 10 grams results are 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 10 grams 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 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.

Signature on file
Deanna Zakharia
EMS EME Lab Senior Resource Manager,
Laboratory Director

Approval Date: 10/01/09

Certification Date: 07/08/09

Certification No.: L1090626P

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

Shortened Scan Result
Motorola Enterprise Mobility Solutions EME Laboratory
 Date/Time: 4/23/2009 4:56:05 PM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090423-09
 Phantom# / Tissue Temp.: OVAL1016 / 20.8 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK40M
 Antenna / TX Freq.: PMAE4065A / 380.0125 (MHz)
 Battery: NNTN7037A
 Carry Acc. / Cable Acc.: NTN8266B / RMN5058A
 Start Power: 5.61 (W)

Comments: Shortened scan. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size. Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with FCD-1868 Rev. 1 draft

Calculated: 13.100 mW/g (1g); 8.580 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.69, 6.69, 6.69)
 Electronics: DAE3 Sn357, Calibrated: 3/12/2009
 Duty Cycle: 1:1, Medium parameters used: f = 425 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 56.9$; $\rho = 1000$ kg/m³

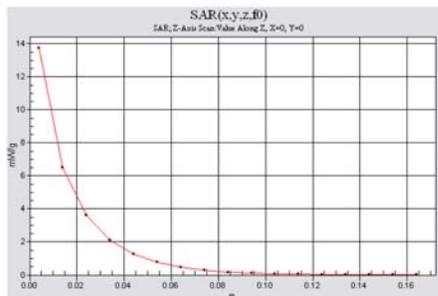
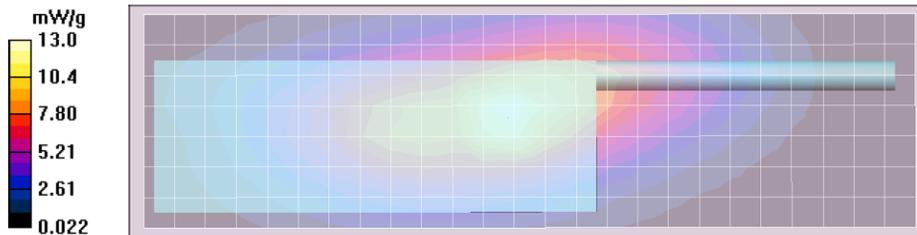
Ab Scan/7x7x7 Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 122.8 V/m; Power Drift = -0.058 dB
 Peak SAR (extrapolated) = 21.4 W/kg
SAR(1 g) = 13.1 mW/g; SAR(10 g) = 8.58 mW/g
 Maximum value of SAR (measured) = 13.9 mW/g

Ab Scan/Area Scan (71x251x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 101.1 V/m; Power Drift = -0.161 dB
Motorola Fast SAR: SAR(1 g) = 12.5 mW/g; SAR(10 g) = 9.05 mW/g
 Maximum value of SAR (interpolated) = 13.3 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 13.7 mW/g

Shortened scan reflect highest SAR producing configuration; approximate run time 12 minutes.
Representative zoom scan run time was 38 minutes

“Shortened” scan max calculated SAR using SAR drift: 1-g Avg. = 6.74 mW/g; 10-g Avg. = 4.42 mW/g
Zoom scan max calculated SAR using SAR drift: 1-g Avg. = 6.46 mW/g; 10-g Avg. = 4.29 mW/g
 (see part 1 of 3 section 13.9 run # CM-Ab-090410-10)



Body Highest SAR Configuration Result
Motorola Enterprise Mobility Solutions EME Laboratory
 Date/Time: 4/10/2009 10:21:22 PM

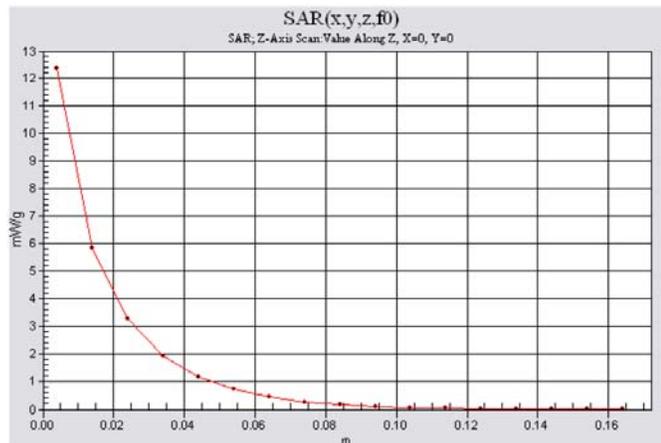
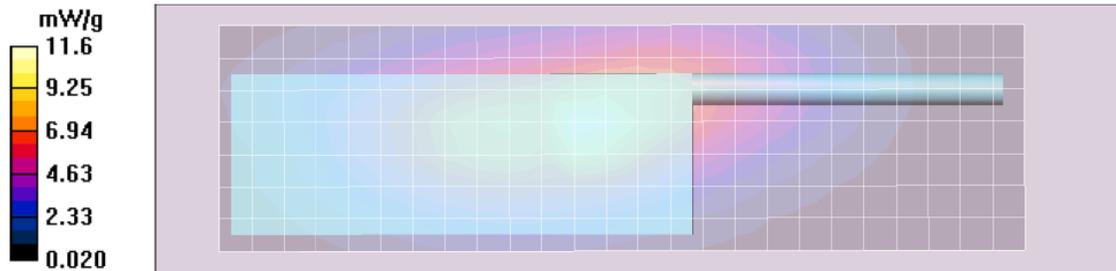
Robot# / Run#: DASY4-FL-2 / CM-Ab-090410-10
 Phantom# / Tissue Temp.: OVAL1016 / 21.2 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK40M
 Antenna / TX Freq.: PMAE4065A / 380.0125 (MHz)
 Battery: NNTN7037A
 Carry Acc. / Cable Acc.: NTN8266B / RMN5058A
 Start Power: 5.40 (W)

Comments: Full Scan
 Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.69, 6.69, 6.69)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 425$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 56.3$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 99.3 V/m; Power Drift = -0.196 dB
 Peak SAR (extrapolated) = 18.7 W/kg
SAR(1 g) = 11.7 mW/g; SAR(10 g) = 7.77 mW/g
 Maximum value of SAR (measured) = 12.5 mW/g

Ab Scan/Area Scan (71x251x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 99.3 V/m; Power Drift = -0.0668 dB
Motorola Fast SAR: SAR(1 g) = 11 mW/g; SAR(10 g) = 7.96 mW/g
 Maximum value of SAR (interpolated) = 11.8 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 12.4 mW/g



Face Highest SAR Configuration Result
Motorola Enterprise Mobility Solutions EME Laboratory
 Date/Time: 4/23/2009 2:09:25 PM

Robot# / Run#: DASY4-FL-2 / HvH-Face-090423-07
 Phantom# / Tissue Temp.: OVAL1011 / 19.9 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK40M
 Antenna / TX Freq.: PMAE4065A / 380.0125 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: None / None
 Start Power: 5.57 (W)

Comments: Back of DUT toward phantom. Full scan

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.31, 6.31, 6.31)
 Electronics: DAE3 Sn357, Calibrated: 3/12/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 425$ MHz; $\sigma = 0.87$ mho/m; $\epsilon_r = 44.2$; $\rho = 1000$ kg/m³

Face Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 99.7 V/m; Power Drift = -0.549 dB

Peak SAR (extrapolated) = 10.2 W/kg

SAR(1 g) = 7.91 mW/g; SAR(10 g) = 6.03 mW/g

Maximum value of SAR (measured) = 8.28 mW/g

Face Scan/Area Scan (71x221x1): Measurement grid: dx=15mm, dy=15mm

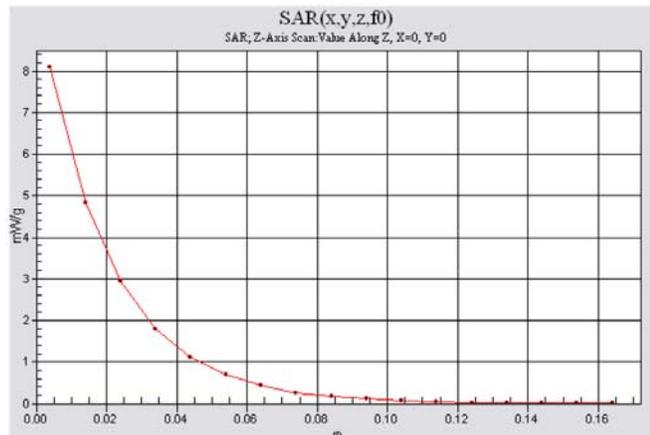
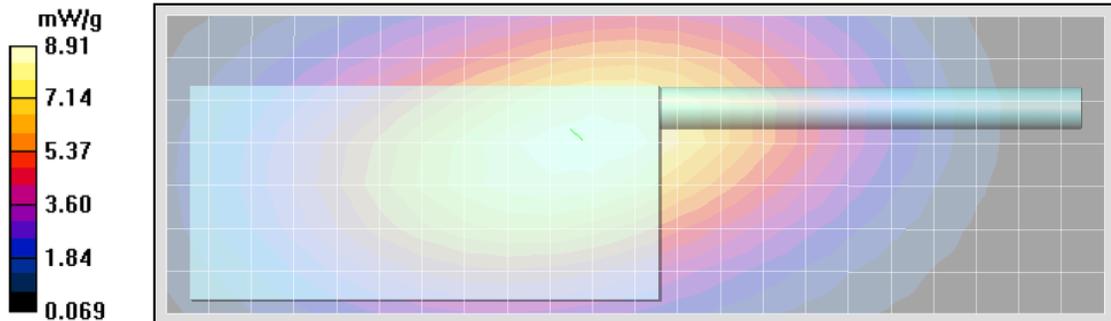
Reference Value = 99.7 V/m; Power Drift = -0.264 dB

Motorola Fast SAR: SAR(1 g) = 8.5 mW/g; SAR(10 g) = 6.35 mW/g

Maximum value of SAR (interpolated) = 8.91 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 8.09 mW/g



Appendix F DUT Scans

Section 1.0

**UHF Assessment of the offered antennas
(Section 13.2 Table 12)**

**Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 4/1/2009 6:47:20 PM**

Robot# / Run#: DASY4-FL-2 / CM-Ab-090401-02
 Phantom# / Tissue Temp.: OVAL 1016 / 20.1 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAE4065A / 425.0000 (MHz)
 Battery: NNTN7038A short
 Carry Acc. / Cable Acc.: NTN8266B with PMLN5331A / PMMN4024A
 Start Power: 5.65 (W)

Comments:

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.69, 6.69, 6.69)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: f = 425 MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 56.6$; $\rho = 1000$ kg/m³

Ab Scan/5x5x7 Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 66.7 V/m; Power Drift = -0.136 dB

Peak SAR (extrapolated) = 6.77 W/kg

SAR(1 g) = 5.17 mW/g; SAR(10 g) = 3.93 mW/g

Maximum value of SAR (measured) = 5.41 mW/g

Ab Scan/Area Scan (71x221x1): Measurement grid: dx=15mm, dy=15mm

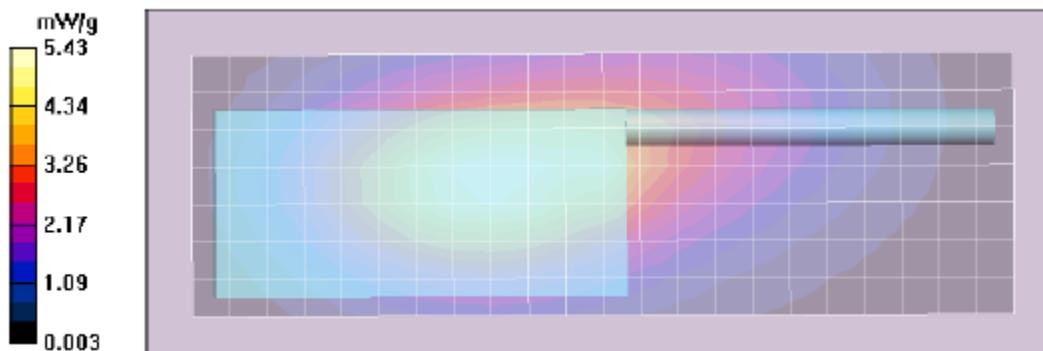
Reference Value = 66.7 V/m; Power Drift = -0.116 dB

Motorola Fast SAR: SAR(1 g) = 5.2 mW/g; SAR(10 g) = 3.85 mW/g

Maximum value of SAR (interpolated) = 5.46 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 5.43 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/2/2009 11:44:54 AM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-090402-02
 Phantom# / Tissue Temp.: OVAL1016 / 21.2 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAE4065A / 425.0000 (MHz)
 Battery: NNTN7035A long
 Carry Acc. / Cable Acc.: NTN8266B w/ PMLN5331A / PMMN4024A
 Start Power: 5.58 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.69, 6.69, 6.69)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 425$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 57.3$; $\rho = 1000$ kg/m³

Ab Scan/5x5x7 Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 70.0 V/m; Power Drift = -0.193 dB

Peak SAR (extrapolated) = 7.58 W/kg

SAR(1 g) = 5.75 mW/g; SAR(10 g) = 4.32 mW/g

Maximum value of SAR (measured) = 6.04 mW/g

Ab Scan/Area Scan (71x251x1): Measurement grid: dx=15mm, dy=15mm

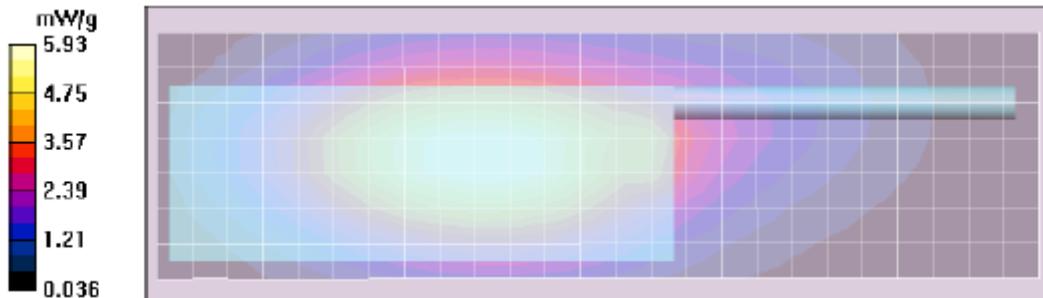
Reference Value = 70.0 V/m; Power Drift = -0.139 dB

Motorola Fast SAR: SAR(1 g) = 5.85 mW/g; SAR(10 g) = 4.34 mW/g

Maximum value of SAR (interpolated) = 6.14 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 6.02 mW/g

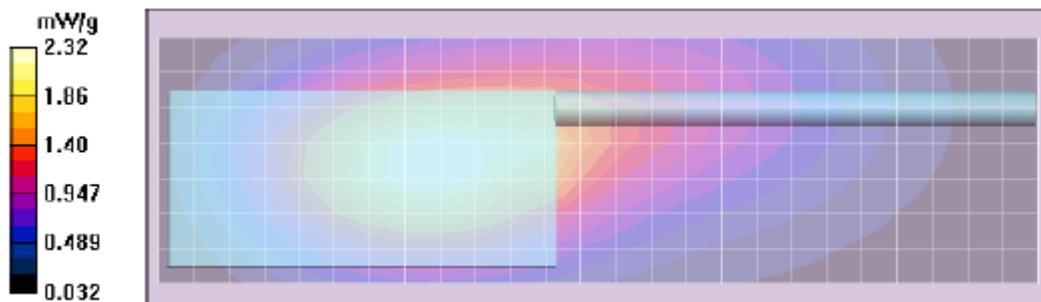


Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 4/2/2009 12:44:05 PM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-090402-03
Phantom# / Tissue Temp.: OVAL1016 / 21.3 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAS4000A / 425.0000 (MHz)
Battery: NNTN7038A short
Carry Acc. / Cable Acc.: NTN8266B w/ PMLN5331A / PMMN4024A
Start Power: 5.61 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.69, 6.69, 6.69)
Electronics: DAE3 Sn374, Calibrated: 1/23/2009
Duty Cycle: 1:1, Medium parameters used: $f = 425$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 57.3$; $\rho = 1000$ kg/m³
Ab Scan/5x5x7 Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 45.1 V/m; Power Drift = -0.096 dB
Peak SAR (extrapolated) = 2.98 W/kg
SAR(1 g) = 2.27 mW/g; SAR(10 g) = 1.71 mW/g
Maximum value of SAR (measured) = 2.38 mW/g
Ab Scan/Area Scan (71x251x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 45.1 V/m; Power Drift = -0.0722 dB
Motorola Fast SAR: SAR(1 g) = 2.28 mW/g; SAR(10 g) = 1.69 mW/g
Maximum value of SAR (interpolated) = 2.40 mW/g
Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 2.38 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/2/2009 1:38:27 PM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-090402-04
 Phantom# / Tissue Temp.: OVAL1016 / 21.2 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 425.0000 (MHz)
 Battery: NNTN7035A long
 Carry Acc. / Cable Acc.: NTN8266B w/ PMLN5331A / PMMN4024A
 Start Power: 5.61 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.69, 6.69, 6.69)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 425$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 57.3$; $\rho = 1000$ kg/m³

Ab Scan/5x5x7 Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 47.4 V/m; Power Drift = -0.0814 dB

Peak SAR (extrapolated) = 3.68 W/kg

SAR(1 g) = 2.8 mW/g; SAR(10 g) = 2.11 mW/g

Maximum value of SAR (measured) = 2.93 mW/g

Ab Scan/Area Scan (71x281x1): Measurement grid: dx=15mm, dy=15mm

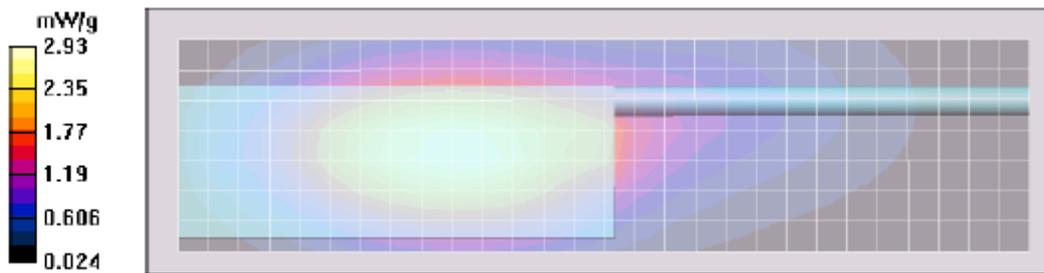
Reference Value = 47.4 V/m; Power Drift = -0.0698 dB

Motorola Fast SAR: SAR(1 g) = 2.84 mW/g; SAR(10 g) = 2.11 mW/g

Maximum value of SAR (interpolated) = 2.98 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.95 mW/g



Section 2.0

UHF Assessment of the offered body worn accessories for short battery
(Section 13.2 Table 13)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/6/2009 3:50:21 PM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090406-03
 Phantom# / Tissue Temp.: OVAL1016 / 21.0 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAE4065A / 425.0000 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: NTN8266B / PMMN4024A
 Start Power: 5.63 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4, 3x3x3 step size cube

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.69, 6.69, 6.69)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 425$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 59.2$; $\rho = 1000$ kg/m³

Ab Scan/5x5x7 Zoom Scan (11x11x11)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=3mm

Reference Value = 88.0 V/m; Power Drift = -0.254 dB

Peak SAR (extrapolated) = 13.7 W/kg

SAR(1 g) = 8.99 mW/g; SAR(10 g) = 6.26 mW/g

Maximum value of SAR (measured) = 9.60 mW/g

Ab Scan/Area Scan (61x211x1): Measurement grid: dx=15mm, dy=15mm

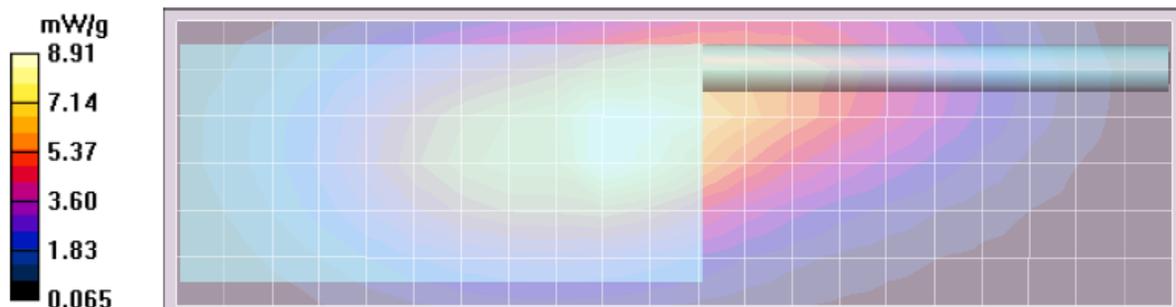
Reference Value = 88.0 V/m; Power Drift = -0.139 dB

Motorola Fast SAR: SAR(1 g) = 8.86 mW/g; SAR(10 g) = 6.43 mW/g

Maximum value of SAR (interpolated) = 9.47 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 9.46 mW/g



Section 3.0

**UHF Assessment of the offered long battery accessories
(Section 13.2 Table 14)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/3/2009 10:18:30 AM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-090403-04
 Phantom# / Tissue Temp.: OVAL1016 / 21.0 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAE4065A / 425.0000 (MHz)
 Battery: NNTN7037A long
 Carry Acc. / Cable Acc.: NTN8266B w/ PMLN5331A / PMMN4024A
 Start Power: 5.67 (W)

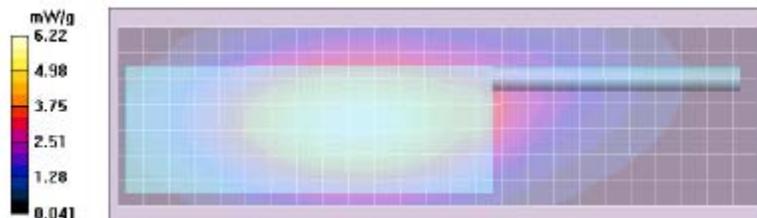
Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.69, 6.69, 6.69)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: f = 425 MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 59.5$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 68.2 V/m; Power Drift = -0.202 dB
 Peak SAR (extrapolated) = 7.72 W/kg
SAR(1 g) = 5.9 mW/g; SAR(10 g) = 4.47 mW/g
 Maximum value of SAR (measured) = 6.17 mW/g

Ab Scan/Area Scan (71x251x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 68.2 V/m; Power Drift = -0.131 dB
Motorola Fast SAR: SAR(1 g) = 6.03 mW/g; SAR(10 g) = 4.48 mW/g
 Maximum value of SAR (interpolated) = 6.34 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 6.13 mW/g



Section 4.0

UHF Assessment of the offered body worn accessories for long battery
(Section 13.2 Table 15)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/6/2009 10:47:05 PM

Robot# / Run#: DASY4-FL-2 / CM-Ab-090406-08
Phantom# / Tissue Temp.: OVAL1016 / 20.9 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAE4065A / 425.0000 (MHz)
Battery: NNTN7037A long
Carry Acc. / Cable Acc.: NTN8266B / PMMN4024A
Start Power: 5.65 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.69, 6.69, 6.69)
Electronics: DAE3 Sn374, Calibrated: 1/23/2009
Duty Cycle: 1:1, Medium parameters used: f = 425 MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 59.2$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 78.1 V/m; Power Drift = -0.133 dB

Peak SAR (extrapolated) = 16.2 W/kg

SAR(1 g) = 9.68 mW/g; SAR(10 g) = 6.27 mW/g

Maximum value of SAR (measured) = 10.4 mW/g

Ab Scan/Area Scan (71x251x1): Measurement grid: dx=15mm, dy=15mm

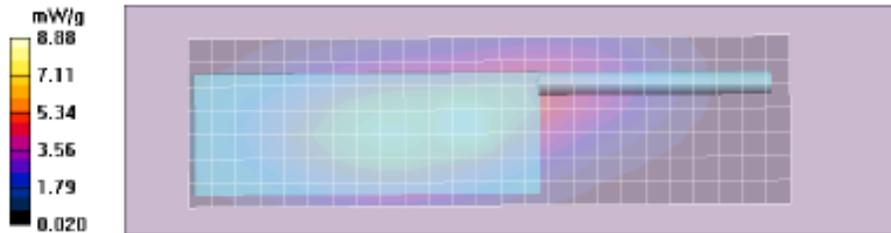
Reference Value = 78.1 V/m; Power Drift = -0.104 dB

Motorola Fast SAR: SAR(1 g) = 8.87 mW/g; SAR(10 g) = 6.4 mW/g

Maximum value of SAR (interpolated) = 9.54 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 10.3 mW/g



Section 5.0

**UHF Assessment of the offered audio accessories
(Section 13.2 Table 16)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/7/2009 12:58:35 PM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090407-03
 Phantom# / Tissue Temp.: OVAL1016 / 20.9 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAE4065A / 425.0000 (MHz)
 Battery: NNTN7037A
 Carry Acc. / Cable Acc.: NTN8266B / RMN5058A
 Start Power: 5.63 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.69, 6.69, 6.69)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 425$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 59.1$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 75.8 V/m; Power Drift = -0.244 dB

Peak SAR (extrapolated) = 16.0 W/kg

SAR(1 g) = 9.53 mW/g; SAR(10 g) = 6.19 mW/g

Maximum value of SAR (measured) = 10.1 mW/g

Ab Scan/Area Scan (71x251x1): Measurement grid: dx=15mm, dy=15mm

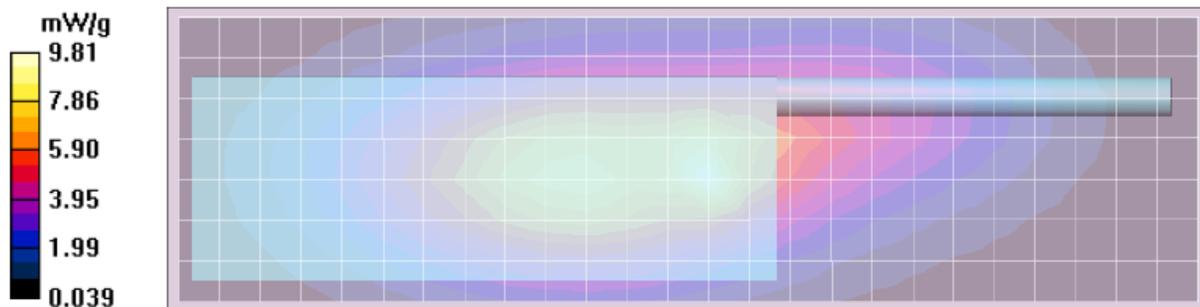
Reference Value = 75.8 V/m; Power Drift = -0.191 dB

Motorola Fast SAR: SAR(1 g) = 9.13 mW/g; SAR(10 g) = 6.34 mW/g

Maximum value of SAR (interpolated) = 10.0 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 10.2 mW/g



Section 6.0

UHF Assessment across the frequency band for each of the offered antenna
(Section 13.2 Table 17)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/8/2009 10:58:38 PM

Robot# / Run#: DASY4-FL-2 / CM-Ab-090408-15
 Phantom# / Tissue Temp.: OVAL1016 / 20.6 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAE4065A / 380.0125 (MHz)
 Battery: NNTN7037A
 Carry Acc. / Cable Acc.: NTN8266B / RMN5058A
 Start Power: 5.55 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.
 Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with FCD-1868 Rev. 1 draft

Calculated: 12.04 mW/g (1g); 8.04 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.69, 6.69, 6.69)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: f = 425 MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 56.8$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 101.0 V/m; Power Drift = -0.199 dB

Peak SAR (extrapolated) = 19.4 W/kg

SAR(1 g) = 12 mW/g; SAR(10 g) = 8.02 mW/g

Maximum value of SAR (measured) = 13.0 mW/g

Ab Scan/Area Scan (71x251x1): Measurement grid: dx=15mm, dy=15mm

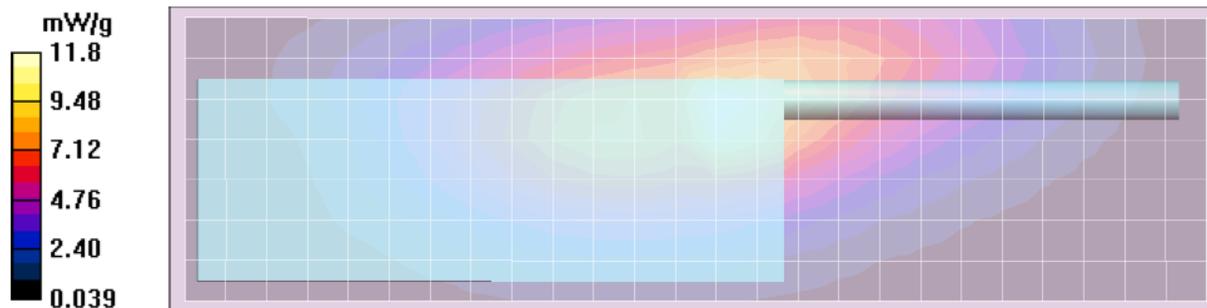
Reference Value = 101.0 V/m; Power Drift = -0.131 dB

Motorola Fast SAR: SAR(1 g) = 11.5 mW/g; SAR(10 g) = 8.27 mW/g

Maximum value of SAR (interpolated) = 12.3 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 12.9 mW/g



Section 7.0

UHF Assessment without body worn accessories at 2.5cm
(Section 13.2 Table 18)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/9/2009 4:05:17 PM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090409-07
Phantom# / Tissue Temp.: OVAL1016 / 20.9 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAE4065A / 380.0125 (MHz)
Battery: NNTN7037A
Carry Acc. / Cable Acc.: None / RMN5058A
Start Power: 5.63 (W)

Comments: Back of DUT at 2.5cm. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7
Cube=5mm step size.

Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with
FCD-1868 Rev. 1 draft

Calculated: 5.12 mW/g (1g); 3.93 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.69, 6.69, 6.69)
Electronics: DAE3 Sn374, Calibrated: 1/23/2009
Duty Cycle: 1:1, Medium parameters used: f = 425 MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 56.5$; $\rho = 1000$ kg/m3

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 71.3 V/m; Power Drift = -0.308 dB

Peak SAR (extrapolated) = 6.62 W/kg

SAR(1 g) = 5.1 mW/g; SAR(10 g) = 3.92 mW/g

Maximum value of SAR (measured) = 5.33 mW/g

Ab Scan/Area Scan (61x251x1): Measurement grid: dx=15mm, dy=15mm

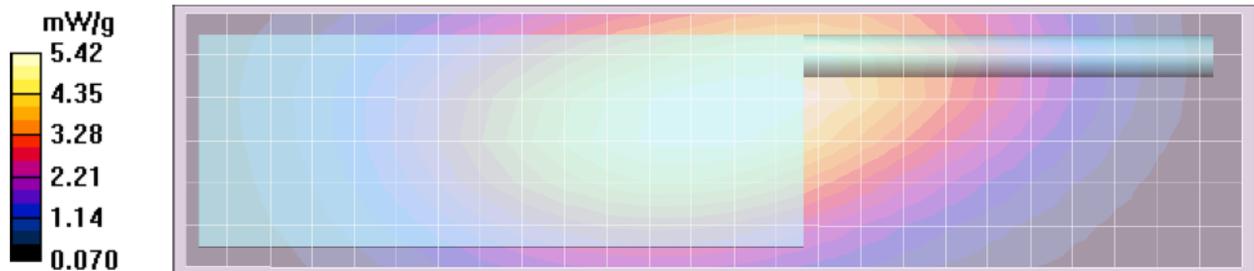
Reference Value = 71.3 V/m; Power Drift = -0.180 dB

Motorola Fast SAR: SAR(1 g) = 5.21 mW/g; SAR(10 g) = 3.91 mW/g

Maximum value of SAR (interpolated) = 5.46 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 5.24 mW/g



Section 8.0

UHF Assessment with carry strap
(Section 13.2 Table 19)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/10/2009 5:13:12 PM

Robot# / Run#: DASY4-FL-2 / CM-Ab-090410-05
Phantom# / Tissue Temp.: OVAL1016 / 21.5 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAE4065A / 380.0125 (MHz)
Battery: NNTN7037A
Carry Acc. / Cable Acc.: NTN5243A with PMLN5329A / RMN5058A
Start Power: 5.60 (W)

Comments: PTT side of radio against phantom. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with FCD-1868 Rev. 1 draft

Calculated: 7.786 mW/g (1g); 5.641 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.69, 6.69, 6.69)
Electronics: DAE3 Sn374, Calibrated: 1/23/2009
Duty Cycle: 1:1, Medium parameters used: f = 425 MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 56.3$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89.0 V/m; Power Drift = -0.134 dB

Peak SAR (extrapolated) = 10.8 W/kg

SAR(1 g) = 7.76 mW/g; SAR(10 g) = 5.63 mW/g

Maximum value of SAR (measured) = 8.20 mW/g

Ab Scan/Area Scan (61x251x1): Measurement grid: dx=15mm, dy=15mm

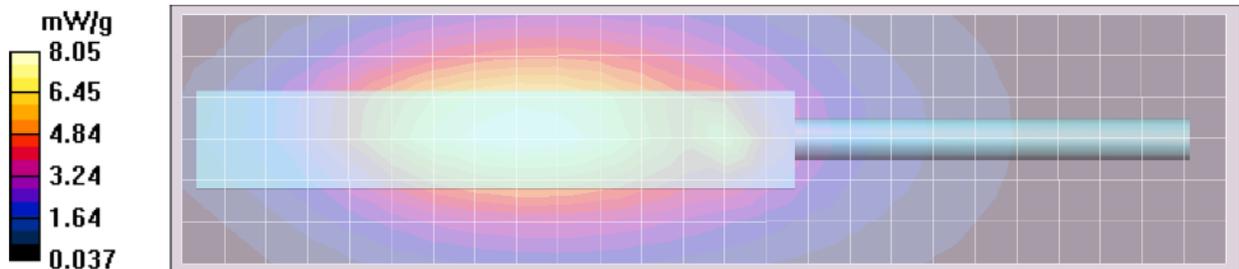
Reference Value = 89.0 V/m; Power Drift = -0.0905 dB

Motorola Fast SAR: SAR(1 g) = 7.79 mW/g; SAR(10 g) = 5.75 mW/g

Maximum value of SAR (interpolated) = 8.21 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 8.16 mW/g



Section 9.0

**UHF Assessment of the offered antennas
(Section 13.2 Table 20)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/7/2009 6:48:01 PM

Robot# / Run#: DASY4-FL-2 / CM-Face-090407-08
 Phantom# / Tissue Temp.: OVAL1011 / 20.8 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAE4065A / 425.0000 (MHz)
 Battery: NNTN7038A short
 Carry Acc. / Cable Acc.: None / None
 Start Power: 5.65 (W)

Comments: Back of DUT toward phantom. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.31, 6.31, 6.31)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 425$ MHz; $\sigma = 0.83$ mho/m; $\epsilon_r = 45$; $\rho = 1000$ kg/m³

Face Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 71.4 V/m; Power Drift = -0.209 dB

Peak SAR (extrapolated) = 5.60 W/kg

SAR(1 g) = 4.48 mW/g; SAR(10 g) = 3.45 mW/g

Maximum value of SAR (measured) = 4.69 mW/g

Face Scan/Area Scan (71x221x1): Measurement grid: dx=15mm, dy=15mm

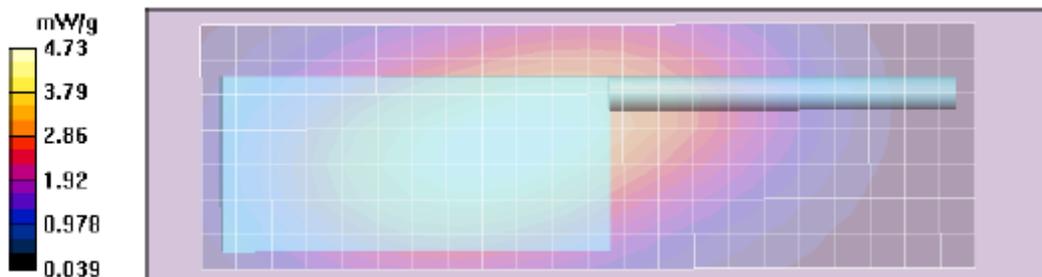
Reference Value = 71.4 V/m; Power Drift = -0.124 dB

Motorola Fast SAR: SAR(1 g) = 4.58 mW/g; SAR(10 g) = 3.43 mW/g

Maximum value of SAR (interpolated) = 4.80 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 4.72 mW/g



Section 10.0

UHF Assessment of the offered batteries
(Section 13.2 Table 21)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/7/2009 6:48:01 PM

Robot# / Run#: DASY4-FL-2 / CM-Face-090407-08
Phantom# / Tissue Temp.: OVAL1011 / 20.8 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAE4065A / 425.0000 (MHz)
Battery: NNTN7038A short
Carry Acc. / Cable Acc.: None / None
Start Power: 5.65 (W)

Comments: Back of DUT toward phantom. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7
Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.31, 6.31, 6.31)
Electronics: DAE3 Sn374, Calibrated: 1/23/2009
Duty Cycle: 1:1, Medium parameters used: f = 425 MHz; $\sigma = 0.83$ mho/m; $\epsilon_r = 45$; $\rho = 1000$ kg/m³

Face Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 71.4 V/m; Power Drift = -0.209 dB

Peak SAR (extrapolated) = 5.60 W/kg

SAR(1 g) = 4.48 mW/g; SAR(10 g) = 3.45 mW/g

Maximum value of SAR (measured) = 4.69 mW/g

Face Scan/Area Scan (71x221x1): Measurement grid: dx=15mm, dy=15mm

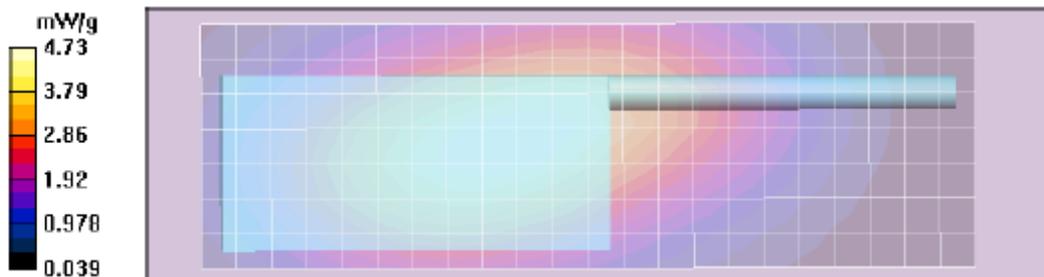
Reference Value = 71.4 V/m; Power Drift = -0.124 dB

Motorola Fast SAR: SAR(1 g) = 4.58 mW/g; SAR(10 g) = 3.43 mW/g

Maximum value of SAR (interpolated) = 4.80 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 4.72 mW/g



Section 11.0

**UHF Assessment of “receive only” audio accessories
(Section 13.2 Table 22)**

**Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 4/8/2009 4:43:05 PM**

Robot# / Run#: DASY4-FL-2 / HvH-Face-090408-09
 Phantom# / Tissue Temp.: OVAL1011 / 21.1 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAE4065A / 425.0000 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: None / RLN5879A
 Start Power: 5.69 (W)

Comments: Back of DUT toward phantom. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7
 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.31, 6.31, 6.31)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 425$ MHz; $\sigma = 0.84$ mho/m; $\epsilon_r = 45$; $\rho = 1000$ kg/m³

Face Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 66.4 V/m; Power Drift = -0.118 dB

Peak SAR (extrapolated) = 5.28 W/kg

SAR(1 g) = 4.09 mW/g; SAR(10 g) = 3.11 mW/g

Maximum value of SAR (measured) = 4.29 mW/g

Face Scan/Area Scan (71x221x1): Measurement grid: dx=15mm, dy=15mm

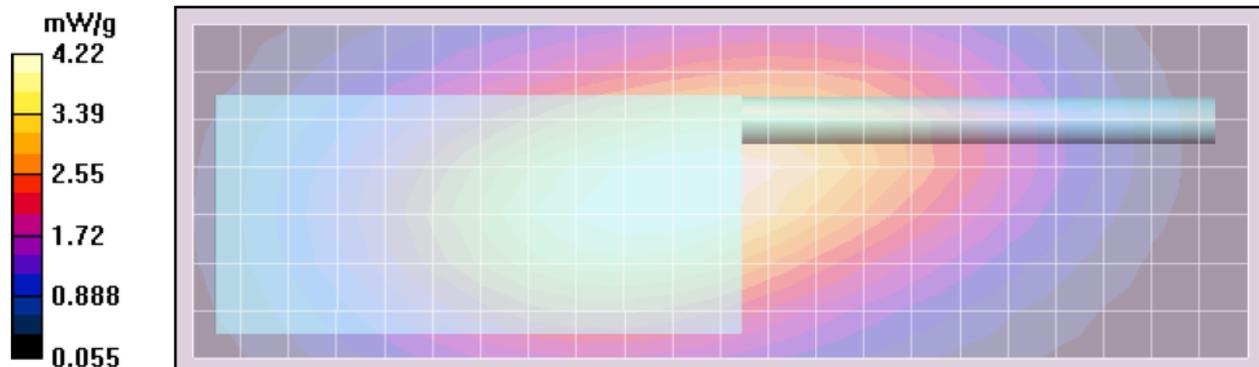
Reference Value = 66.4 V/m; Power Drift = -0.112 dB

Motorola Fast SAR: SAR(1 g) = 4.12 mW/g; SAR(10 g) = 3.08 mW/g

Maximum value of SAR (interpolated) = 4.32 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 4.25 mW/g



Section 12.0

UHF Assessment across the frequency band for each of the offered antenna (Section 13.2 Table 23)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/8/2009 5:51:13 PM

Robot# / Run#: DASY4-FL-2 / CM-Face-090408-10
Phantom# / Tissue Temp.: OVAL1011 / 21.1 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAE4065A / 380.0125 (MHz)
Battery: NNTN7038A
Carry Acc. / Cable Acc.: None / None
Start Power: 5.53 (W)

Comments: Back of DUT toward phantom. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.
Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with FCD-1868 Rev. 1 draft

Calculated: 8.167 mW/g (1g); 6.221 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.31, 6.31, 6.31)
Electronics: DAE3 Sn374, Calibrated: 1/23/2009
Duty Cycle: 1:1, Medium parameters used: f = 425 MHz; sigma = 0.84 mho/m; epsilon = 45; rho = 1000 kg/m3

Face Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 101.3 V/m; Power Drift = -0.412 dB

Peak SAR (extrapolated) = 10.1 W/kg

SAR(1 g) = 7.96 mW/g; SAR(10 g) = 6.12 mW/g

Maximum value of SAR (measured) = 8.32 mW/g

Face Scan/Area Scan (71x221x1): Measurement grid: dx=15mm, dy=15mm

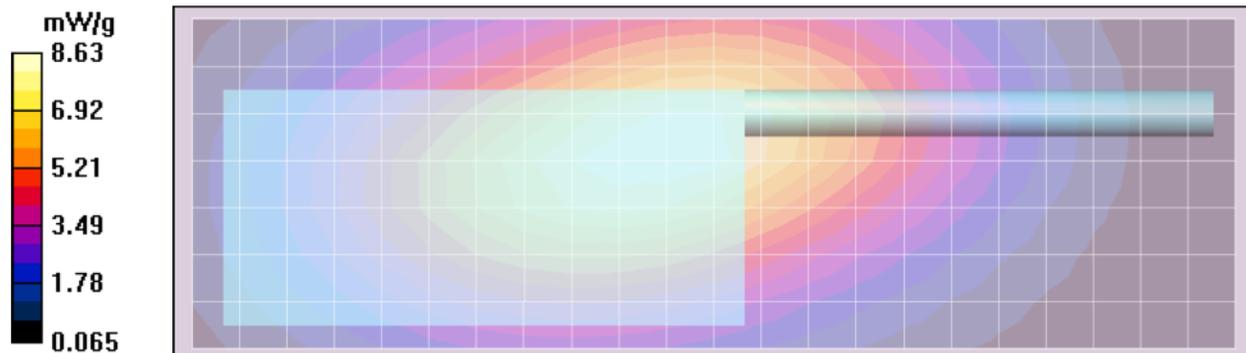
Reference Value = 101.3 V/m; Power Drift = -0.230 dB

Motorola Fast SAR: SAR(1 g) = 8.28 mW/g; SAR(10 g) = 6.2 mW/g

Maximum value of SAR (interpolated) = 8.68 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 8.18 mW/g



Section 13.0

770MHz Assessment of the offered antenna
(Section 13.4 Table 24)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/11/2009 7:37:58 AM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090411-04
Phantom# / Tissue Temp.: OVAL1019 / 20.5 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAS4000A / 770.0000 (MHz)
Battery: NNTN7038A
Carry Acc. / Cable Acc.: NTN8266B w/ PMLN5331A / PMMN4024A
Start Power: 2.93 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.9, 5.9, 5.9)
Electronics: DAE3 Sn374, Calibrated: 1/23/2009
Duty Cycle: 1:1, Medium parameters used: f = 770 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 56.8$; $\rho = 1000$ kg/m3

Ab Scan/5x5x7 Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 17.0 V/m; Power Drift = -0.0987 dB

Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.761 mW/g; SAR(10 g) = 0.571 mW/g

Maximum value of SAR (measured) = 0.795 mW/g

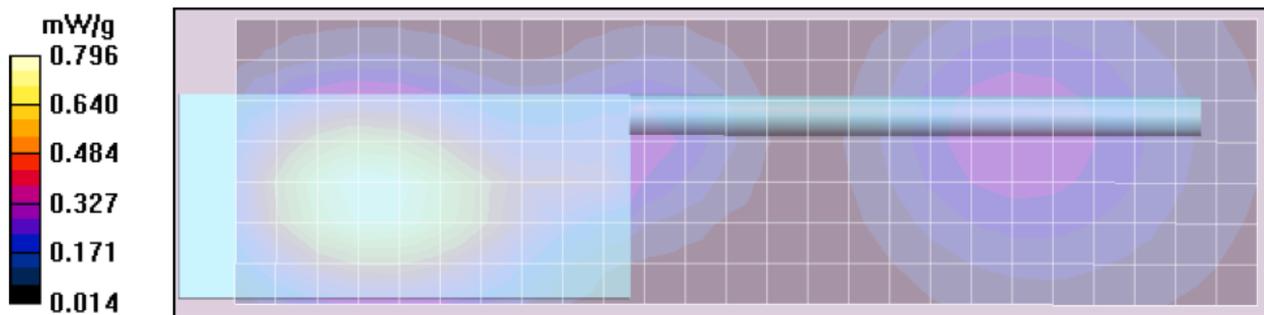
Ab Scan/Area Scan (71x251x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 17.0 V/m; Power Drift = -0.067 dB

Motorola Fast SAR: SAR(1 g) = 0.777 mW/g; SAR(10 g) = 0.556 mW/g

Maximum value of SAR (interpolated) = 0.819 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/11/2009 1:43:13 PM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090411-11
 Phantom# / Tissue Temp.: OVAL1019 / 20.7 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 770.0000 (MHz)
 Battery: NNTN7033A
 Carry Acc. / Cable Acc.: NTN8266B w/PMLN5331A / PMMN4024A
 Start Power: 2.94 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.9, 5.9, 5.9)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 770 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 56.8$; $\rho = 1000 \text{ kg/m}^3$

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.8 V/m; Power Drift = -0.111 dB

Peak SAR (extrapolated) = 0.747 W/kg

SAR(1 g) = 0.498 mW/g; SAR(10 g) = 0.341 mW/g

Maximum value of SAR (measured) = 0.537 mW/g

Ab Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

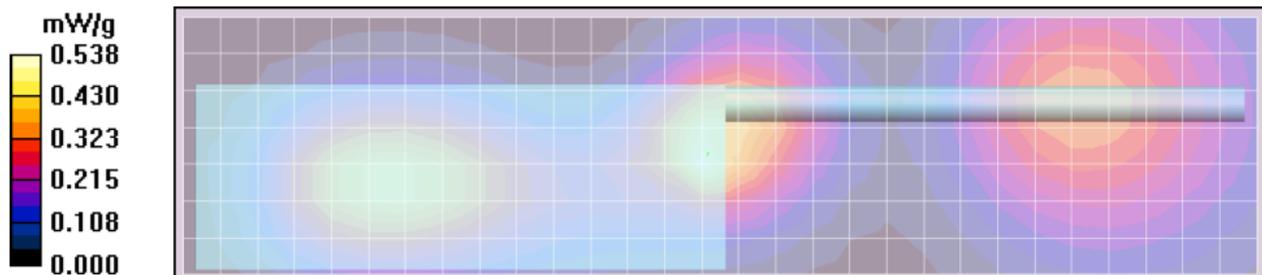
Reference Value = 18.8 V/m; Power Drift = -0.098 dB

Motorola Fast SAR: SAR(1 g) = 0.501 mW/g; SAR(10 g) = 0.344 mW/g

Maximum value of SAR (interpolated) = 0.549 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.538 mW/g



Section 14.0

**770MHz Assessment of the offered body worn accessories for short battery
(Section 13.4 Table 25)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/11/2009 9:09:33 AM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090411-06
 Phantom# / Tissue Temp.: OVAL1019 / 20.7 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 770.0000 (MHz)
 Battery: NNTN7038A short
 Carry Acc. / Cable Acc.: NTN8266B / PMMN4024A
 Start Power: 2.94 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.9, 5.9, 5.9)

Electronics: DAE3 Sn374, Calibrated: 1/23/2009

Duty Cycle: 1:1, Medium parameters used: $f = 770$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 56.8$; $\rho = 1000$ kg/m³

Ab Scan/5x5x7 Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 30.2 V/m; Power Drift = -0.0646 dB

Peak SAR (extrapolated) = 2.52 W/kg

SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.739 mW/g

Maximum value of SAR (measured) = 1.32 mW/g

Ab Scan/Area Scan (61x251x1): Measurement grid: dx=15mm, dy=15mm

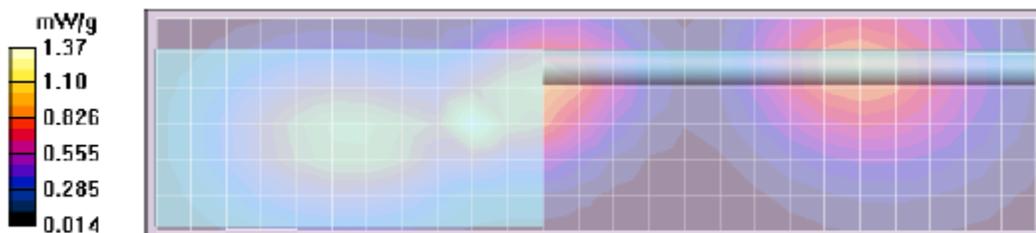
Reference Value = 30.2 V/m; Power Drift = -0.035 dB

Motorola Fast SAR: SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.755 mW/g

Maximum value of SAR (interpolated) = 1.38 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.33 mW/g



Section 15.0

**770MHz Assessment of the offered long batteries
(Section 13.4 Table 26)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/11/2009 7:23:40 PM

Robot# / Run#: DASY4-FL-2 / CM-Ab-090411-14
 Phantom# / Tissue Temp.: OVAL1019 / 20.8 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 770.0000 (MHz)
 Battery: NNTN7037A
 Carry Acc. / Cable Acc.: NTN8266B w/PMLN5331A / PMMN4024A
 Start Power: 2.92 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.9, 5.9, 5.9)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: f = 770 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 56.8$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.6 V/m; Power Drift = -0.139 dB

Peak SAR (extrapolated) = 0.771 W/kg

SAR(1 g) = 0.505 mW/g; SAR(10 g) = 0.342 mW/g

Maximum value of SAR (measured) = 0.537 mW/g

Ab Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

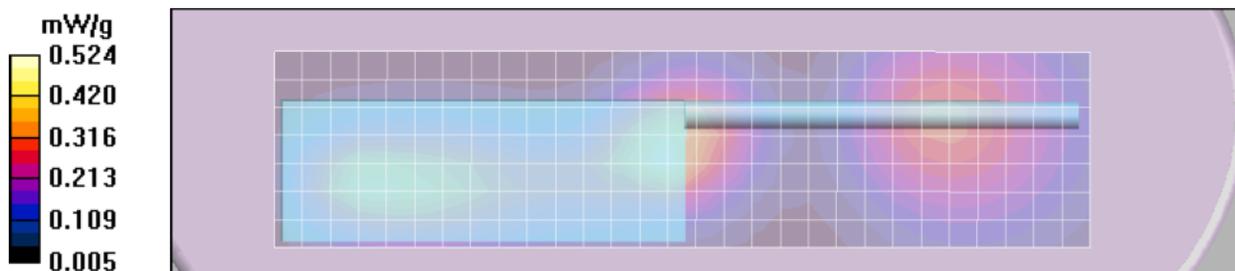
Reference Value = 18.6 V/m; Power Drift = -0.100 dB

Motorola Fast SAR: SAR(1 g) = 0.496 mW/g; SAR(10 g) = 0.340 mW/g

Maximum value of SAR (interpolated) = 0.541 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.538 mW/g



Section 16.0

**770MHz Assessment of the offered body worn accessories for long battery
(Section 13.4 Table 27)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/11/2009 11:12:37 PM

Robot# / Run#: DASY4-FL-2 / CM-Ab-090411-17
 Phantom# / Tissue Temp.: OVAL1019 / 20.7 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 770.0000 (MHz)
 Battery: NNTN7037A long
 Carry Acc. / Cable Acc.: NTN8266B / PMMN4024A
 Start Power: 2.98 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.9, 5.9, 5.9)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: f = 770 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 56.8$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.5 V/m; Power Drift = -0.155 dB

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.974 mW/g

Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.

Maximum value of SAR (measured) = 1.49 mW/g

Ab Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

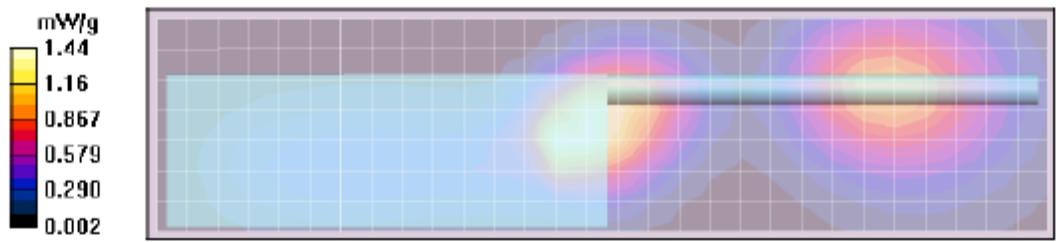
Reference Value = 33.5 V/m; Power Drift = -0.125 dB

Motorola Fast SAR: SAR(1 g) = 1.43 mW/g; SAR(10 g) = 1.000 mW/g

Maximum value of SAR (interpolated) = 1.58 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.44 mW/g



Section 17.0

770MHz Assessment of the offered audio accessories
(Section 13.4 Table 28)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/13/2009 4:33:50 PM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090413-08
Phantom# / Tissue Temp.: OVAL1019 / 20.6 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAS4000A / 770.0000 (MHz)
Battery: NNTN7037A
Carry Acc. / Cable Acc.: NTN8266B / PMLN5275A
Start Power: 2.94 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.9, 5.9, 5.9)
Electronics: DAE3 Sn374, Calibrated: 1/23/2009
Duty Cycle: 1:1, Medium parameters used: f = 770 MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 54$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.4 V/m; Power Drift = -0.138 dB

Peak SAR (extrapolated) = 2.37 W/kg

SAR(1 g) = 1.55 mW/g; SAR(10 g) = 1.11 mW/g

Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.

Maximum value of SAR (measured) = 1.68 mW/g

Ab Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

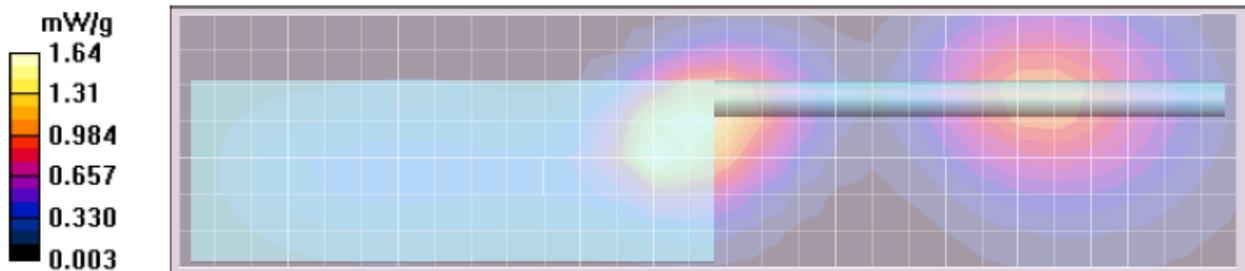
Reference Value = 34.4 V/m; Power Drift = -0.081 dB

Motorola Fast SAR: SAR(1 g) = 1.62 mW/g; SAR(10 g) = 1.11 mW/g

Maximum value of SAR (interpolated) = 1.77 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.63 mW/g



Section 18.0

**770MHz Assessment across the frequency band for the offered antenna
(Section 13.4 Table 29)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/14/2009 11:01:11 AM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090414-03
 Phantom# / Tissue Temp.: OVAL1019 / 20.9 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 775.9875 (MHz)
 Battery: NNTN7037A
 Carry Acc. / Cable Acc.: NTN8266B / PMLN5275A
 Start Power: 2.98 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.9, 5.9, 5.9)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 770$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 56.9$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.8 V/m; Power Drift = -0.119 dB

Peak SAR (extrapolated) = 2.47 W/kg

SAR(1 g) = 1.6 mW/g; SAR(10 g) = 1.13 mW/g

Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.

Maximum value of SAR (measured) = 1.72 mW/g

Ab Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

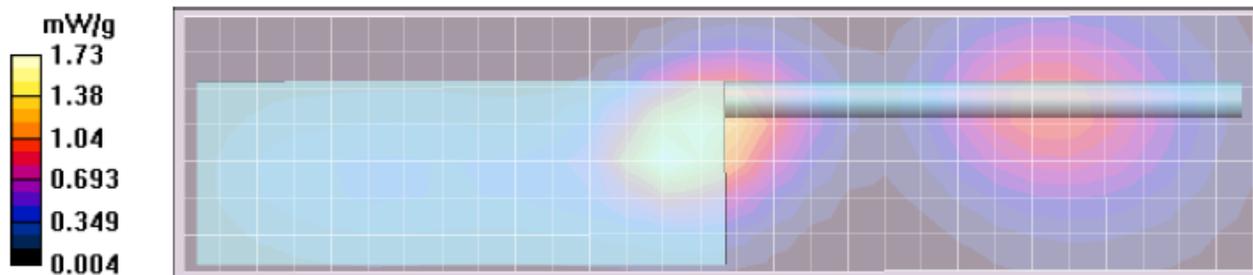
Reference Value = 33.8 V/m; Power Drift = -0.070 dB

Motorola Fast SAR: SAR(1 g) = 1.67 mW/g; SAR(10 g) = 1.15 mW/g

Maximum value of SAR (interpolated) = 1.81 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.71 mW/g



Section 19.0

**770MHz Assessment without body worn accessories at 2.5cm
(Section 13.4 Table 30)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/14/2009 12:08:17 PM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090414-04
 Phantom# / Tissue Temp.: OVAL1019 / 20.9 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 775.9875 (MHz)
 Battery: NNTN7037A long
 Carry Acc. / Cable Acc.: None / PMLN5275A
 Start Power: 2.96 (W)

Comments: Back of DUT w/ antenna at 2.5cm Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7
 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.9, 5.9, 5.9)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 770 \text{ MHz}$; $\sigma = 0.92 \text{ mho/m}$; $\epsilon_r = 56.9$; $\rho = 1000 \text{ kg/m}^3$

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 52.9 V/m; Power Drift = -0.479 dB

Peak SAR (extrapolated) = 3.16 W/kg

SAR(1 g) = 2.3 mW/g; SAR(10 g) = 1.67 mW/g

Maximum value of SAR (measured) = 2.43 mW/g

Ab Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

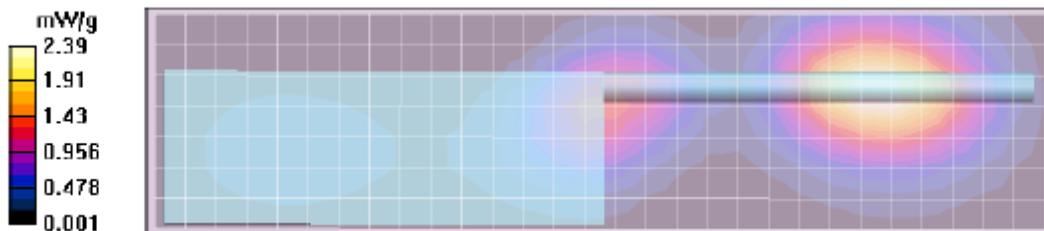
Reference Value = 52.9 V/m; Power Drift = -0.295 dB

Motorola Fast SAR: SAR(1 g) = 2.4 mW/g; SAR(10 g) = 1.69 mW/g

Maximum value of SAR (interpolated) = 2.55 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.39 mW/g



Section 20.0

**770MHz Assessment with carry strap
(Section 13.4 Table 31)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/14/2009 8:47:50 PM

Robot# / Run#: DASY4-FL-2 / CM-Ab-090414-12
 Phantom# / Tissue Temp.: OVAL1019 / 20.7 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 775.9875 (MHz)
 Battery: NNTN7037A long
 Carry Acc. / Cable Acc.: NTN5243A w/ PMLN5330A (without loop) / PMLN5275A
 Start Power: 2.95 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.9, 5.9, 5.9)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 770$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 56.9$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.5 V/m; Power Drift = -0.00274 dB

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 1.52 mW/g; SAR(10 g) = 1.05 mW/g

Maximum value of SAR (measured) = 1.62 mW/g

Ab Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

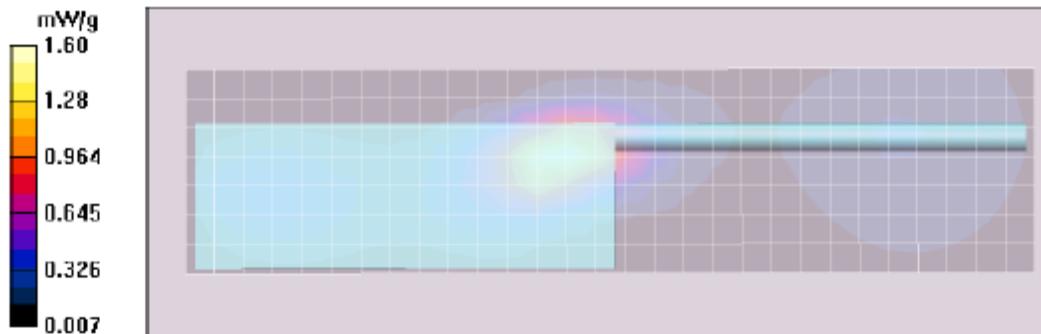
Reference Value = 31.5 V/m; Power Drift = -0.0347 dB

Motorola Fast SAR: SAR(1 g) = 1.53 mW/g; SAR(10 g) = 1.04 mW/g

Maximum value of SAR (interpolated) = 1.64 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.65 mW/g



Section 21.0

770MHz Assessment of the offered Public Safety Mic (PSM) accessories
(Section 13.4 Table 32)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/15/2009 12:51:37 PM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090415-05
Phantom# / Tissue Temp.: OVAL1019 / 20.8 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAF4002A / 770.0000 (MHz)
Battery: NNTN7037A
Carry Acc. / Cable Acc.: PSM clip / PMMN4061A
Start Power: 2.66 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.9, 5.9, 5.9)
Electronics: DAE3 Sn374, Calibrated: 1/23/2009
Duty Cycle: 1:1, Medium parameters used: f = 770 MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 59.0 V/m; Power Drift = -0.135 dB

Peak SAR (extrapolated) = 10.7 W/kg

SAR(1 g) = 6.04 mW/g; SAR(10 g) = 3.95 mW/g

Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.

Maximum value of SAR (measured) = 6.59 mW/g

Ab Scan/Area Scan (51x121x1): Measurement grid: dx=15mm, dy=15mm

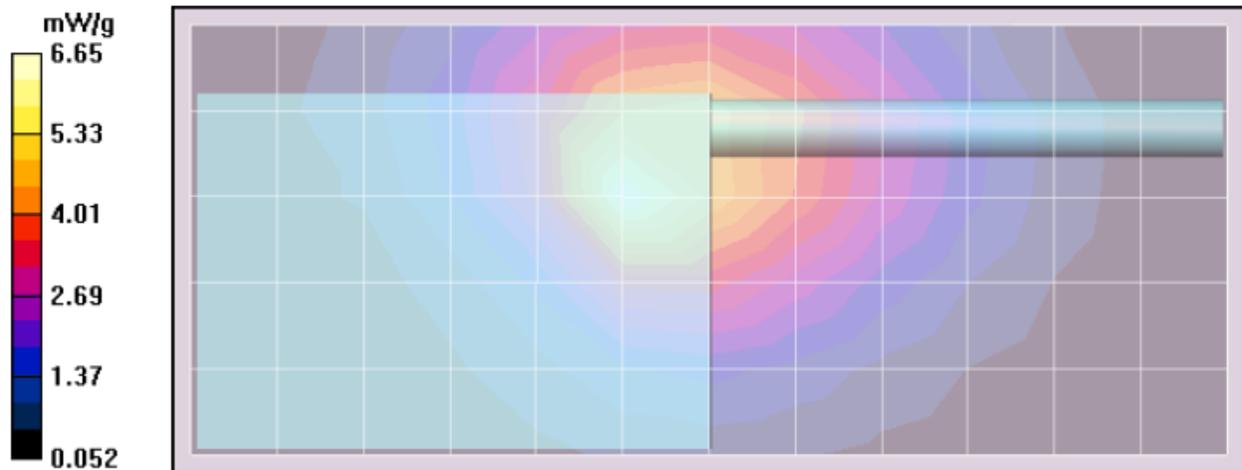
Reference Value = 59.0 V/m; Power Drift = -0.103 dB

Motorola Fast SAR: SAR(1 g) = 6.24 mW/g; SAR(10 g) = 4.08 mW/g

Maximum value of SAR (interpolated) = 7.06 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 6.52 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/15/2009 3:22:58 PM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090415-07
 Phantom# / Tissue Temp.: OVAL1019 / 20.7 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAF4002A / 775.9875 (MHz)
 Battery: NNTN7037A long
 Carry Acc. / Cable Acc.: PSM clip / PMMN4061A
 Start Power: 2.72 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.9, 5.9, 5.9)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 770$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 63.8 V/m; Power Drift = -0.136 dB

Peak SAR (extrapolated) = 11.7 W/kg

SAR(1 g) = 6.78 mW/g; SAR(10 g) = 4.49 mW/g

Maximum value of SAR (measured) = 7.31 mW/g

Ab Scan/Area Scan (51x121x1): Measurement grid: dx=15mm, dy=15mm

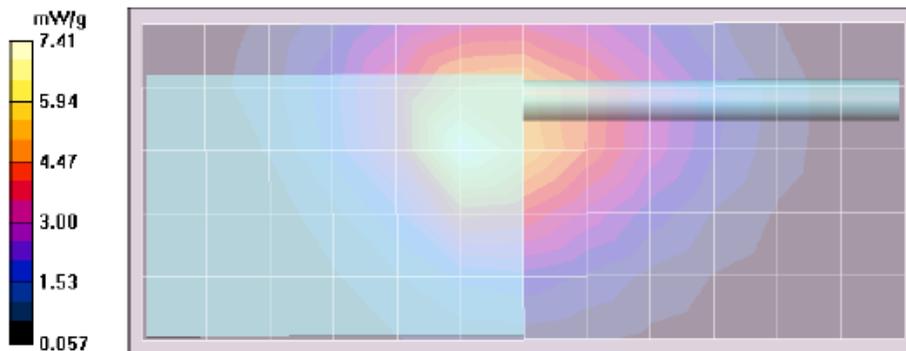
Reference Value = 63.8 V/m; Power Drift = -0.088 dB

Motorola Fast SAR: SAR(1 g) = 6.95 mW/g; SAR(10 g) = 4.59 mW/g

Maximum value of SAR (interpolated) = 7.78 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 7.24 mW/g



Section 22.0

770MHz Assessment of the offered antenna
(Section 13.4 Table 33)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/21/2009 7:03:36 PM

Robot# / Run#: DASY4-FL-2 / CM-Face-090421-12
Phantom# / Tissue Temp.: OVAL1018 / 20.6 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAS4000A / 770.0000 (MHz)
Battery: NNTN7035A long
Carry Acc. / Cable Acc.: None / None
Start Power: 2.95 (W)

Comments: Front toward phantom. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7
Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.1, 6.1, 6.1)
Electronics: DAE3 Sn357, Calibrated: 3/12/2009
Duty Cycle: 1:1, Medium parameters used: f = 770 MHz; $\sigma = 0.86$ mho/m; $\epsilon_r = 43.2$; $\rho = 1000$ kg/m³

Face Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.4 V/m; Power Drift = -0.274 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 1 mW/g; SAR(10 g) = 0.739 mW/g

Maximum value of SAR (measured) = 1.06 mW/g

Face Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

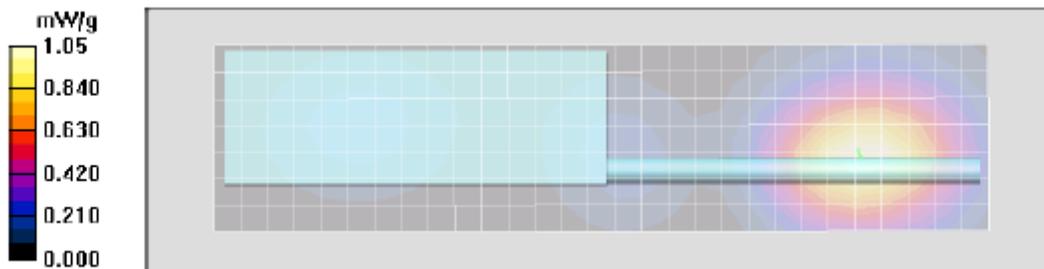
Reference Value = 31.4 V/m; Power Drift = -0.201 dB

Motorola Fast SAR: SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.738 mW/g

Maximum value of SAR (interpolated) = 1.09 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.05 mW/g



Section 23.0

**770MHz Assessment of the offered batteries
(Section 13.4 Table 34)**

**Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 4/21/2009 11:34:01 PM**

Robot# / Run#: DASY4-FL-2 / CM-Face-090421-16
 Phantom# / Tissue Temp.: OVAL1018 / 20.5 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 770.0000 (MHz)
 Battery: NNTN7037A
 Carry Acc. / Cable Acc.: None / None
 Start Power: 2.95 (W)

Comments: Front toward phantom. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7
 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.1, 6.1, 6.1)
 Electronics: DAE3 Sn357, Calibrated: 3/12/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 770 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.2$; $\rho = 1000 \text{ kg/m}^3$

Face Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.9 V/m; Power Drift = -0.305 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.755 mW/g

Maximum value of SAR (measured) = 1.08 mW/g

Face Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

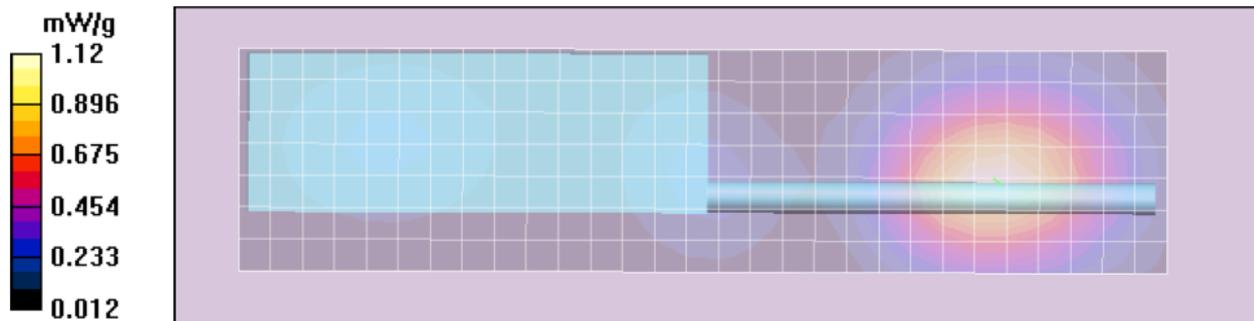
Reference Value = 33.9 V/m; Power Drift = -0.215 dB

Motorola Fast SAR: SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.764 mW/g

Maximum value of SAR (interpolated) = 1.13 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.07 mW/g



Section 24.0

770MHz Assessment of “receive only” audio accessories
(Section 13.4 Table 35)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/22/2009 12:28:16 AM

Robot# / Run#: DASY4-FL-2 / CM-Face-090421-17
Phantom# / Tissue Temp.: OVAL1018 / 20.5 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAS4000A / 770.0000 (MHz)
Battery: NNTN7037A
Carry Acc. / Cable Acc.: None / RLN5879A
Start Power: 2.96 (W)

Comments: Front toward phantom. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7
Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.1, 6.1, 6.1)
Electronics: DAE3 Sn357, Calibrated: 3/12/2009
Duty Cycle: 1:1, Medium parameters used: f = 770 MHz; $\sigma = 0.86$ mho/m; $\epsilon_r = 43.2$; $\rho = 1000$ kg/m³

Face Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.1 V/m; Power Drift = -0.221 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.783 mW/g; SAR(10 g) = 0.577 mW/g

Maximum value of SAR (measured) = 0.823 mW/g

Face Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

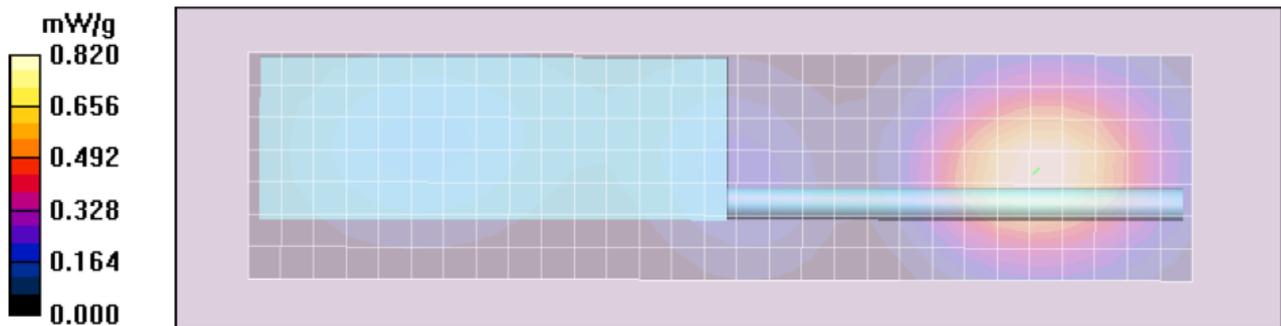
Reference Value = 26.1 V/m; Power Drift = -0.151 dB

Motorola Fast SAR: SAR(1 g) = 0.800 mW/g; SAR(10 g) = 0.574 mW/g

Maximum value of SAR (interpolated) = 0.846 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.820 mW/g



Section 25.0

**770MHz Assessment across the frequency band for offered antenna
(Section 13.4 Table 36)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/22/2009 2:22:07 AM

Robot# / Run#: DASY4-FL-2 / CM-Face-090421-19
 Phantom# / Tissue Temp.: OVAL1018 / 20.4 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 775.9875 (MHz)
 Battery: NNTN7037A
 Carry Acc. / Cable Acc.: None / None
 Start Power: 2.96 (W)

Comments: Front toward phantom. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7
 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.1, 6.1, 6.1)

Electronics: DAE3 Sn357, Calibrated: 3/12/2009

Duty Cycle: 1:1, Medium parameters used: $f = 770$ MHz; $\sigma = 0.86$ mho/m; $\epsilon_r = 43.2$; $\rho = 1000$ kg/m³

Face Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.6 V/m; Power Drift = -0.337 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.761 mW/g

Maximum value of SAR (measured) = 1.09 mW/g

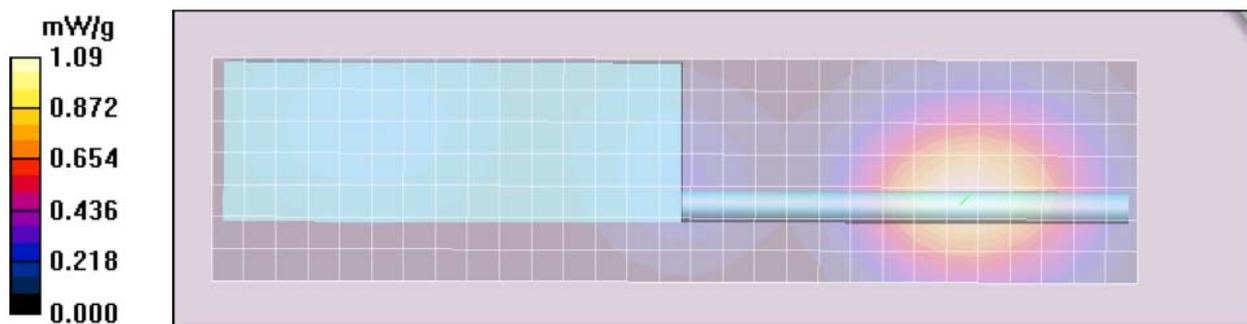
Face Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 34.6 V/m; Power Drift = -0.310 dB

Motorola Fast SAR: SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.771 mW/g

Maximum value of SAR (interpolated) = 1.14 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm



Section 26.0

**809MHz Assessment of the offered antenna
(Section 13.6 Table 37)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/15/2009 4:18:08 PM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090415-08
 Phantom# / Tissue Temp.: OVAL1019 / 20.5 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 809.0000 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: NTN8266B w/PMLN5331A / PMMN4024A
 Start Power: 3.59 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.
 Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with FCD-1868 Rev. 1 draft

Calculated: 1.125 mW/g (1g); 0.839 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: f = 809 MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.5 V/m; Power Drift = -0.379 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.837 mW/g

Maximum value of SAR (measured) = 1.19 mW/g

Ab Scan/Area Scan (71x261x1): Measurement grid: dx=15mm, dy=15mm

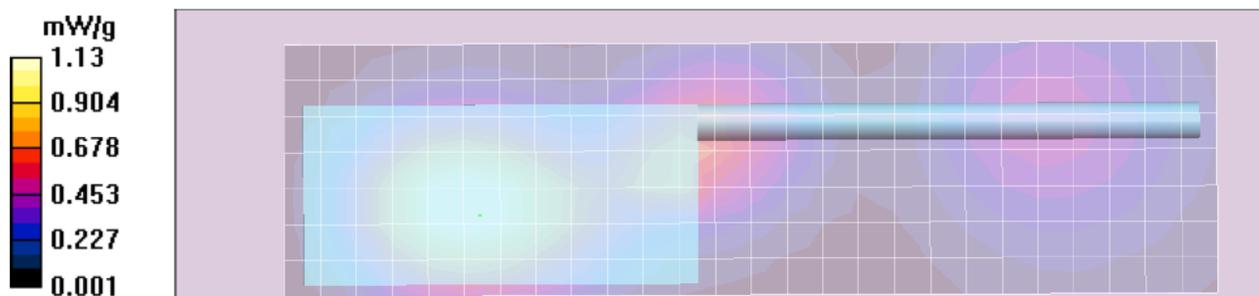
Reference Value = 24.5 V/m; Power Drift = -0.228 dB

Motorola Fast SAR: SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.827 mW/g

Maximum value of SAR (interpolated) = 1.23 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.13 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/15/2009 10:45:26 PM

Robot# / Run#: DASY4-FL-2 / CM-Ab-090415-15
 Phantom# / Tissue Temp.: OVAL1019 / 20.7 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 809.0000 (MHz)
 Battery: NNTN7033A
 Carry Acc. / Cable Acc.: NTN8266B with PMLN5331A / PMMN4024A
 Start Power: 3.58 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with FCD-1868 Rev. 1 draft

Calculated: 0.995 mW/g (1g); 0.687 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)

Electronics: DAE3 Sn374, Calibrated: 1/23/2009

Duty Cycle: 1:1, Medium parameters used: f = 809 MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.9 V/m; Power Drift = -0.320 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.990 mW/g; SAR(10 g) = 0.685 mW/g

Maximum value of SAR (measured) = 1.06 mW/g

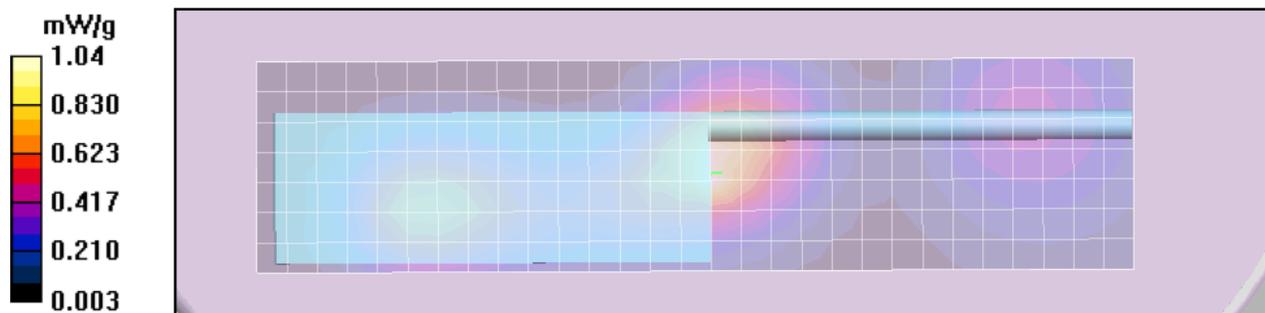
Ab Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 27.9 V/m; Power Drift = -0.218 dB

Motorola Fast SAR: SAR(1 g) = 1 mW/g; SAR(10 g) = 0.689 mW/g

Maximum value of SAR (interpolated) = 1.09 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm



Section 27.0

**809MHz Assessment of the offered body worn accessories for short battery
(Section 13.6 Table 38)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/15/2009 6:25:29 PM

Robot# / Run#: DASY4-FL-2 / CM-Ab-090415-10
 Phantom# / Tissue Temp.: OVAL1019 / 20.5 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 809.0000 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: NTN8266B / PMMN4024A
 Start Power: 3.58 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.
 Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with FCD-1868 Rev. 1 draft

Calculated: 2.060 mW/g (1g); 1.354 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: f = 809 MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 36.7 V/m; Power Drift = -0.272 dB

Peak SAR (extrapolated) = 3.60 W/kg

SAR(1 g) = 2.05 mW/g; SAR(10 g) = 1.35 mW/g

Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.

Maximum value of SAR (measured) = 2.21 mW/g

Ab Scan/Area Scan (71x261x1): Measurement grid: dx=15mm, dy=15mm

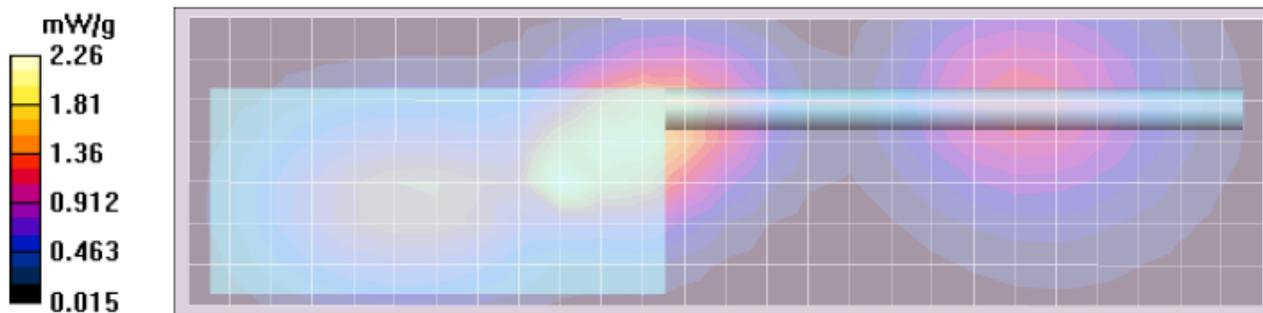
Reference Value = 36.7 V/m; Power Drift = -0.221 dB

Motorola Fast SAR: SAR(1 g) = 2.09 mW/g; SAR(10 g) = 1.4 mW/g

Maximum value of SAR (interpolated) = 2.40 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.16 mW/g



Section 28.0

809MHz Assessment of the offered long batteries
(Section 13.6 Table 39)

Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 4/16/2009 10:10:32 AM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090416-02
Phantom# / Tissue Temp.: OVAL1019 / 21.2 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAS4000A / 809.0000 (MHz)
Battery: NNTN7034A
Carry Acc. / Cable Acc.: NTN8266B with PMLN5331A / PMMN4024A
Start Power: 3.59 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.
Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with FCD-1868 Rev. 1 draft

Calculated: 1.008 mW/g (1g); 0.688 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
Electronics: DAE3 Sn374, Calibrated: 1/23/2009
Duty Cycle: 1:1, Medium parameters used: f = 809 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.0 V/m; Power Drift = -0.475 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.997 mW/g; SAR(10 g) = 0.684 mW/g

Maximum value of SAR (measured) = 1.06 mW/g

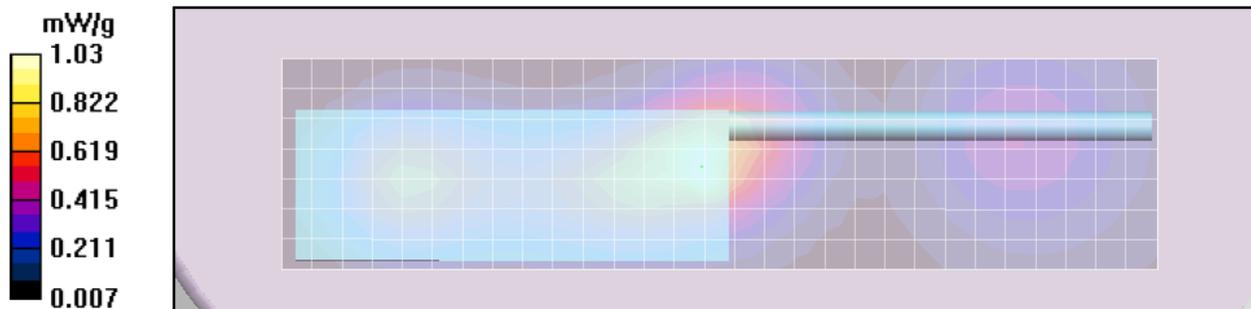
Ab Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 22.0 V/m; Power Drift = -0.401 dB

Motorola Fast SAR: SAR(1 g) = 0.999 mW/g; SAR(10 g) = 0.689 mW/g

Maximum value of SAR (interpolated) = 1.09 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm



Section 29.0

**809MHz Assessment of the offered body worn accessories for long battery
(Section 13.6 Table 40)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/16/2009 5:56:53 PM

Robot# / Run#: DASY4-FL-2 / CM-Ab-090416-06
 Phantom# / Tissue Temp.: OVAL1019 / 21.1 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 809.0000 (MHz)
 Battery: NNTN7034A
 Carry Acc. / Cable Acc.: NTN8266B / PMMN4024A
 Start Power: 3.56 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.
 Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with FCD-1868 Rev. 1 draft

Calculated: 2.507 mW/g (1g); 1.761 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: f = 809 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.5 V/m; Power Drift = -0.257 dB

Peak SAR (extrapolated) = 3.65 W/kg

SAR(1 g) = 2.48 mW/g; SAR(10 g) = 1.75 mW/g

Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.

Maximum value of SAR (measured) = 2.65 mW/g

Ab Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

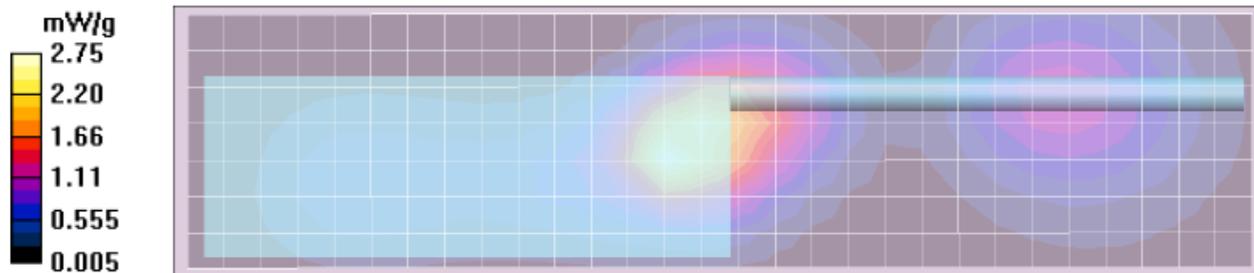
Reference Value = 34.5 V/m; Power Drift = -0.223 dB

Motorola Fast SAR: SAR(1 g) = 2.63 mW/g; SAR(10 g) = 1.79 mW/g

Maximum value of SAR (interpolated) = 2.90 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.61 mW/g



Section 30.0

809MHz Assessment of the offered audio accessories
(Section 13.6 Table 41)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/17/2009 10:57:33 AM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090417-04
Phantom# / Tissue Temp.: OVAL1019 / 20.9 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAS4000A / 809.0000 (MHz)
Battery: NNTN7034A
Carry Acc. / Cable Acc.: NTN8266B / PMMN4062A
Start Power: 3.59 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.
Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with FCD-1868 Rev. 1 draft

Calculated: 2.588 mW/g (1g); 1.822 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
Electronics: DAE3 Sn374, Calibrated: 1/23/2009
Duty Cycle: 1:1, Medium parameters used: f = 809 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 37.7 V/m; Power Drift = -0.347 dB

Peak SAR (extrapolated) = 3.68 W/kg

SAR(1 g) = 2.56 mW/g; SAR(10 g) = 1.81 mW/g

Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.

Maximum value of SAR (measured) = 2.74 mW/g

Ab Scan/Area Scan (61x291x1): Measurement grid: dx=15mm, dy=15mm

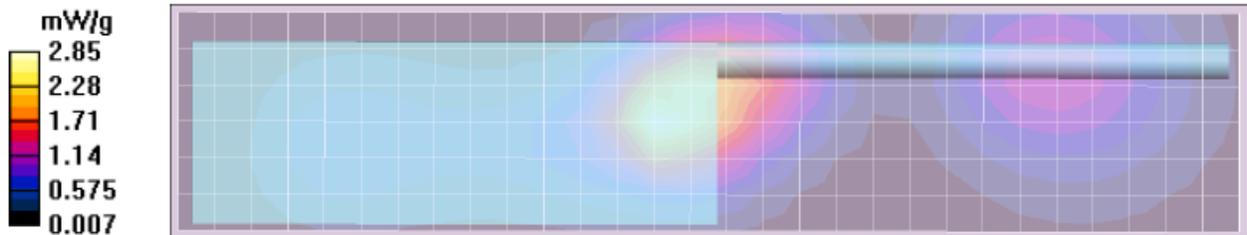
Reference Value = 37.7 V/m; Power Drift = -0.260 dB

Motorola Fast SAR: SAR(1 g) = 2.71 mW/g; SAR(10 g) = 1.85 mW/g

Maximum value of SAR (interpolated) = 2.97 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.69 mW/g



Section 31.0

809MHz Assessment across the frequency band for the offered antenna
(Section 13.6 Table 42)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/17/2009 10:57:33 AM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090417-04
Phantom# / Tissue Temp.: OVAL1019 / 20.9 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAS4000A / 809.0000 (MHz)
Battery: NNTN7034A
Carry Acc. / Cable Acc.: NTN8266B / PMMN4062A
Start Power: 3.59 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.
Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with FCD-1868 Rev. 1 draft

Calculated: 2.588 mW/g (1g); 1.822 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
Electronics: DAE3 Sn374, Calibrated: 1/23/2009
Duty Cycle: 1:1, Medium parameters used: f = 809 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 37.7 V/m; Power Drift = -0.347 dB

Peak SAR (extrapolated) = 3.68 W/kg

SAR(1 g) = 2.56 mW/g; SAR(10 g) = 1.81 mW/g

Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.

Maximum value of SAR (measured) = 2.74 mW/g

Ab Scan/Area Scan (61x291x1): Measurement grid: dx=15mm, dy=15mm

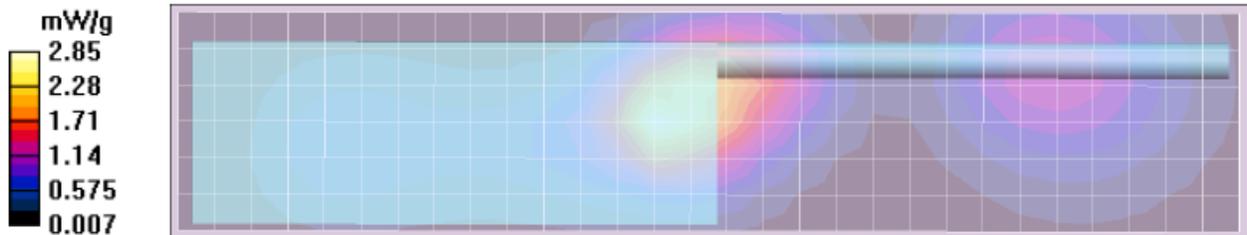
Reference Value = 37.7 V/m; Power Drift = -0.260 dB

Motorola Fast SAR: SAR(1 g) = 2.71 mW/g; SAR(10 g) = 1.85 mW/g

Maximum value of SAR (interpolated) = 2.97 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.69 mW/g



Section 32.0

**809MHz Assessment without body worn accessories at 2.5cm
(Section 13.6 Table 43)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/17/2009 5:52:52 PM

Robot# / Run#: DASY4-FL-2 / CM-Ab-090417-12
 Phantom# / Tissue Temp.: OVAL1019 / 20.9 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 809.0000 (MHz)
 Battery: NNTN7034A
 Carry Acc. / Cable Acc.: None / PMMN4062A
 Start Power: 3.60 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4
 and Modified for 7x7x7 Cube=5mm step size.

Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with
 FCD-1868 Rev. 1 draft

Calculated: 2.507 mW/g (1g); 1.812 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: f = 809 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.1 V/m; Power Drift = -0.340 dB

Peak SAR (extrapolated) = 3.27 W/kg

SAR(1 g) = 2.48 mW/g; SAR(10 g) = 1.8 mW/g

Maximum value of SAR (measured) = 2.63 mW/g

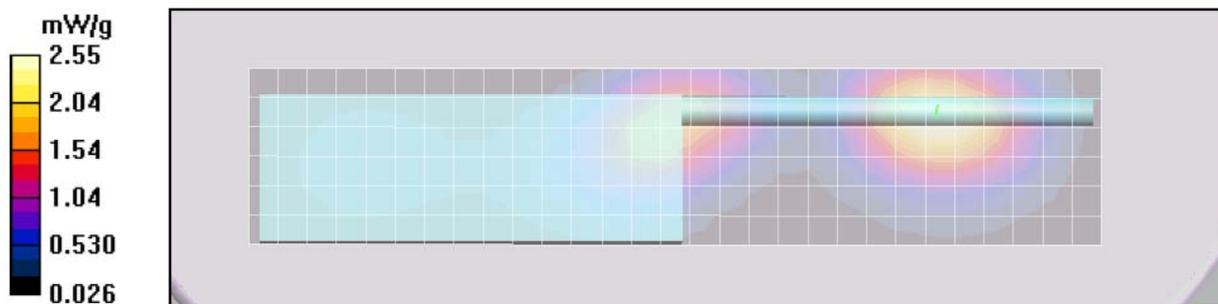
Ab Scan/Area Scan (61x291x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 53.1 V/m; Power Drift = -0.346 dB

Motorola Fast SAR: SAR(1 g) = 2.49 mW/g; SAR(10 g) = 1.75 mW/g

Maximum value of SAR (interpolated) = 2.64 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm



Section 33.0

**809MHz Assessment with carry strap
(Section 13.6 Table 44)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/18/2009 5:42:23 AM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090418-02
 Phantom# / Tissue Temp.: OVAL1019 / 21.0 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 809.0000 (MHz)
 Battery: NNTN7034A
 Carry Acc. / Cable Acc.: NTN5243A w/ PMLN5330A / PMMN4062A
 Start Power: 3.60 (W)

Comments: Without loop. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with FCD-1868 Rev. 1 draft

Calculated: 2.487 mW/g (1g); 1.731 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
 Electronics: DAE3 Sn401, Calibrated: 7/18/2008
 Duty Cycle: 1:1, Medium parameters used: f = 809 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.9 V/m; Power Drift = -0.252 dB

Peak SAR (extrapolated) = 3.30 W/kg

SAR(1 g) = 2.46 mW/g; SAR(10 g) = 1.72 mW/g

Maximum value of SAR (measured) = 2.63 mW/g

Ab Scan/Area Scan (61x291x1): Measurement grid: dx=15mm, dy=15mm

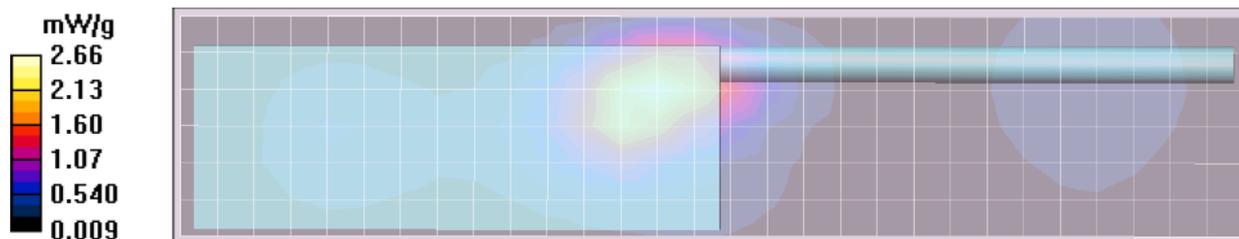
Reference Value = 26.9 V/m; Power Drift = -0.181 dB

Motorola Fast SAR: SAR(1 g) = 2.54 mW/g; SAR(10 g) = 1.72 mW/g

Maximum value of SAR (interpolated) = 2.72 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.61 mW/g



Section 34.0

**809MHz Assessment of the offered Public Safety Mic (PSM) accessories
(Section 13.6 Table 45)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/18/2009 8:16:03 AM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090418-05
 Phantom# / Tissue Temp.: OVAL1019 / 20.8 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAF4002A / 809.0000 (MHz)
 Battery: NNTN7034A
 Carry Acc. / Cable Acc.: PSM clip / PMMN4059A
 Start Power: 3.59 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.
 Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with FCD-1868 Rev. 1 draft

Calculated: 6.107 mW/g (1g); 3.905 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
 Electronics: DAE3 Sn401, Calibrated: 7/18/2008
 Duty Cycle: 1:1, Medium parameters used: f = 809 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 62.3 V/m; Power Drift = -0.838 dB

Peak SAR (extrapolated) = 10.4 W/kg

SAR(1 g) = 6.04 mW/g; SAR(10 g) = 3.88 mW/g

Maximum value of SAR (measured) = 6.63 mW/g

Ab Scan/Area Scan (51x121x1): Measurement grid: dx=15mm, dy=15mm

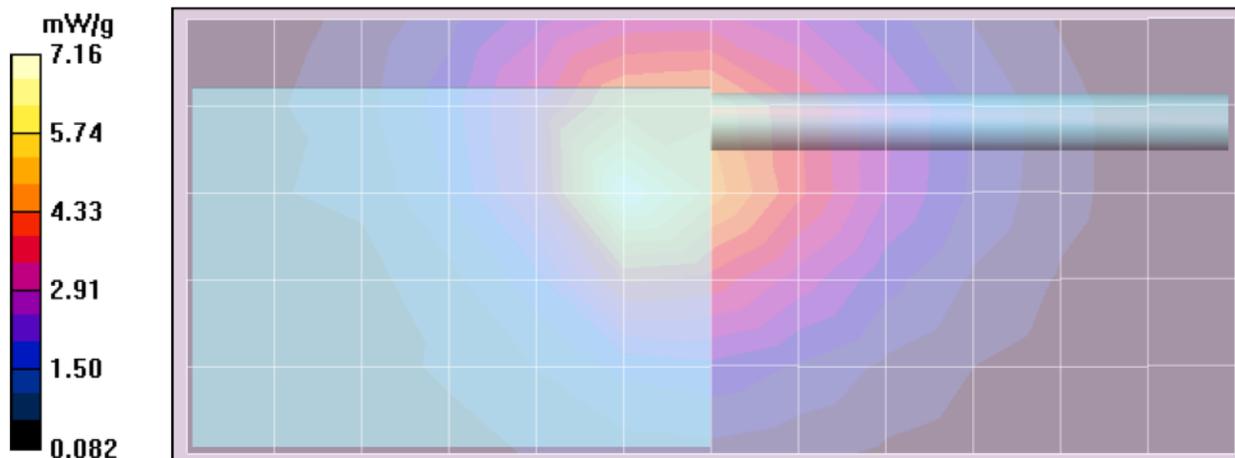
Reference Value = 62.3 V/m; Power Drift = -0.450 dB

Motorola Fast SAR: SAR(1 g) = 6.64 mW/g; SAR(10 g) = 4.29 mW/g

Maximum value of SAR (interpolated) = 7.51 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 6.39 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/18/2009 9:57:09 AM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090418-08
 Phantom# / Tissue Temp.: OVAL1019 / 20.8 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAF4002A / 794.0125 (MHz)
 Battery: NNTN7034A
 Carry Acc. / Cable Acc.: PSM clip / PMMN4059A
 Start Power: 2.90 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.9, 5.9, 5.9)
 Electronics: DAE3 Sn401, Calibrated: 7/18/2008
 Duty Cycle: 1:1, Medium parameters used: $f = 809$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 58.0 V/m; Power Drift = -0.136 dB

Peak SAR (extrapolated) = 10.7 W/kg

SAR(1 g) = 5.97 mW/g; SAR(10 g) = 3.78 mW/g

Maximum value of SAR (measured) = 6.44 mW/g

Ab Scan/Area Scan (51x121x1): Measurement grid: dx=15mm, dy=15mm

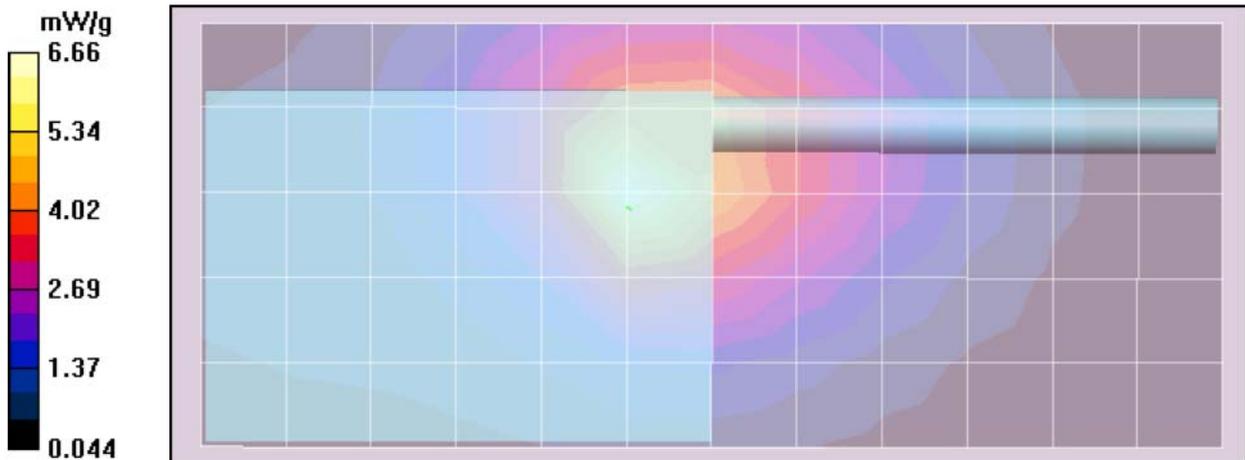
Reference Value = 58.0 V/m; Power Drift = -0.085 dB

Motorola Fast SAR: SAR(1 g) = 6.09 mW/g; SAR(10 g) = 3.92 mW/g

Maximum value of SAR (interpolated) = 6.89 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 6.51 mW/g



Section 35.0

**809MHz Assessment of the offered antenna
(Section 13.6 Table 46)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/22/2009 11:27:57 AM

Robot# / Run#: DASY4-FL-2 / HvH-Face-090422-04
 Phantom# / Tissue Temp.: OVAL1018 / 20.9 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 809.0000 (MHz)
 Battery: NNTN7035A
 Carry Acc. / Cable Acc.: None / None
 Start Power: 3.58 (W)

Comments: Front toward phantom. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7
 Cube=5mm step size.

Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with
 FCD-1868 Rev. 1 draft

Calculated: 1.703 mW/g (1g); 1.248 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.86, 5.86, 5.86)
 Electronics: DAE3 Sn357, Calibrated: 3/12/2009
 Duty Cycle: 1:1, Medium parameters used: f = 809 MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 42.7$; $\rho = 1000$ kg/m³

Face Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 45.1 V/m; Power Drift = -0.386 dB

Peak SAR (extrapolated) = 2.18 W/kg

SAR(1 g) = 1.67 mW/g; SAR(10 g) = 1.23 mW/g

Maximum value of SAR (measured) = 1.77 mW/g

Face Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

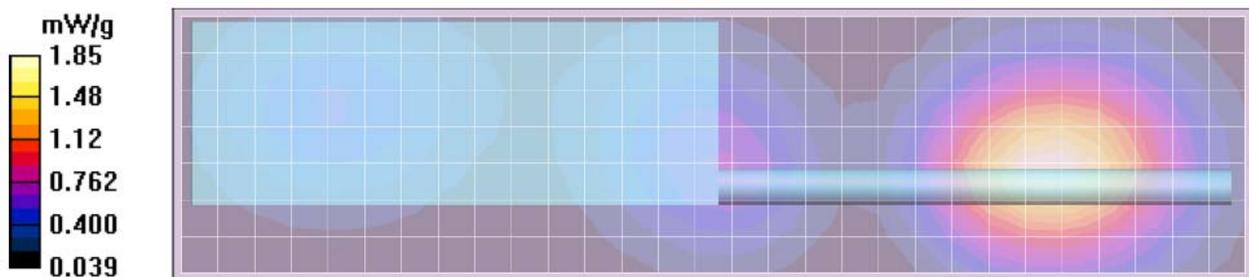
Reference Value = 45.1 V/m; Power Drift = -0.322 dB

Motorola Fast SAR: SAR(1 g) = 1.76 mW/g; SAR(10 g) = 1.26 mW/g

Maximum value of SAR (interpolated) = 1.87 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.76 mW/g



Section 36.0

**809MHz Assessment of the offered batteries
(Section 13.6 Table 47)**

**Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 4/22/2009 11:27:57 AM**

Robot# / Run#: DASY4-FL-2 / HvH-Face-090422-04
 Phantom# / Tissue Temp.: OVAL1018 / 20.9 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 809.0000 (MHz)
 Battery: NNTN7035A
 Carry Acc. / Cable Acc.: None / None
 Start Power: 3.58 (W)

Comments: Front toward phantom. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7
 Cube=5mm step size.
 Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with
 FCD-1868 Rev. 1 draft

Calculated: 1.703 mW/g (1g); 1.248 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.86, 5.86, 5.86)
 Electronics: DAE3 Sn357, Calibrated: 3/12/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 809 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 42.7$; $\rho = 1000 \text{ kg/m}^3$

Face Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 45.1 V/m; Power Drift = -0.386 dB

Peak SAR (extrapolated) = 2.18 W/kg

SAR(1 g) = 1.67 mW/g; SAR(10 g) = 1.23 mW/g

Maximum value of SAR (measured) = 1.77 mW/g

Face Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

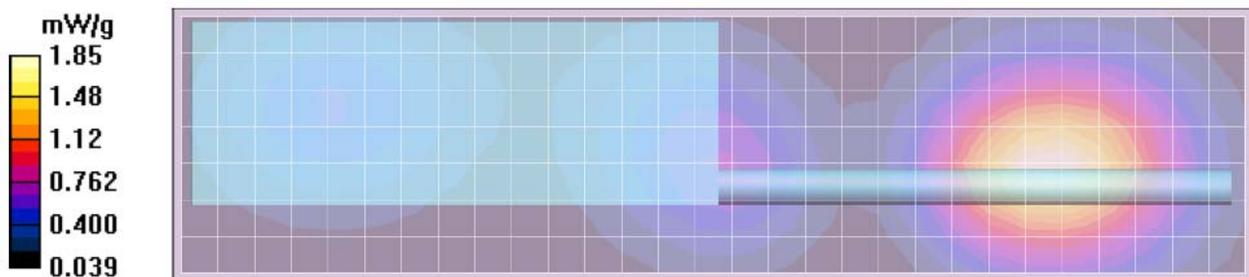
Reference Value = 45.1 V/m; Power Drift = -0.322 dB

Motorola Fast SAR: SAR(1 g) = 1.76 mW/g; SAR(10 g) = 1.26 mW/g

Maximum value of SAR (interpolated) = 1.87 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.76 mW/g



Section 37.0

809MHz Assessment of “receive only” audio accessories
(Section 13.6 Table 48)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/22/2009 3:44:38 PM

Robot# / Run#: DASY4-FL-2 / HvH-Face-090422-09
Phantom# / Tissue Temp.: OVAL1018 / 20.6 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAS4000A / 809.0000 (MHz)
Battery: NNTN7035A
Carry Acc. / Cable Acc.: None / RLN5879A
Start Power: 3.56 (W)

Comments: Front toward phantom.

Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with FCD-1868 Rev. 1 draft

Calculated: 1.264 mW/g (1g); .929 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.86, 5.86, 5.86)

Electronics: DAE3 Sn357, Calibrated: 3/12/2009

Duty Cycle: 1:1, Medium parameters used: f = 809 MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 42.7$; $\rho = 1000$ kg/m³

Face Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 39.2 V/m; Power Drift = -0.389 dB

Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.916 mW/g

Maximum value of SAR (measured) = 1.32 mW/g

Face Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

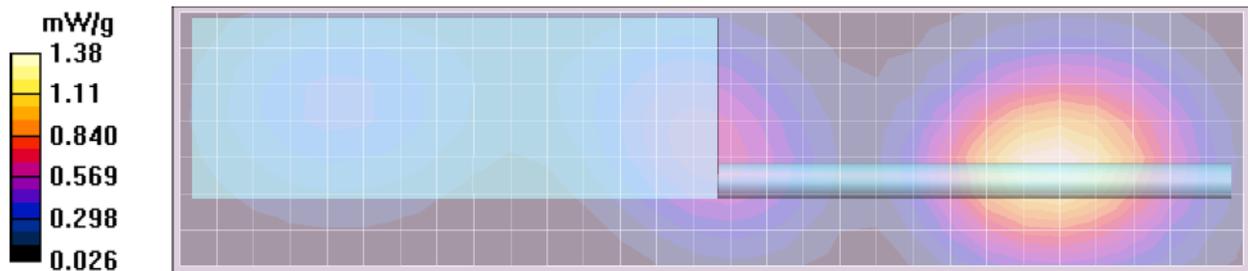
Reference Value = 39.2 V/m; Power Drift = -0.342 dB

Motorola Fast SAR: SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.939 mW/g

Maximum value of SAR (interpolated) = 1.40 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.31 mW/g



Section 38.0

809MHz Assessment across the frequency band for offered antenna
(Section 13.6 Table 49)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/22/2009 11:27:57 AM

Robot# / Run#: DASY4-FL-2 / HvH-Face-090422-04
Phantom# / Tissue Temp.: OVAL1018 / 20.9 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAS4000A / 809.0000 (MHz)
Battery: NNTN7035A
Carry Acc. / Cable Acc.: None / None
Start Power: 3.58 (W)

Comments: Front toward phantom. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7
Cube=5mm step size.

Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with
FCD-1868 Rev. 1 draft

Calculated: 1.703 mW/g (1g); 1.248 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.86, 5.86, 5.86)
Electronics: DAE3 Sn357, Calibrated: 3/12/2009
Duty Cycle: 1:1, Medium parameters used: f = 809 MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 42.7$; $\rho = 1000$ kg/m³

Face Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 45.1 V/m; Power Drift = -0.386 dB

Peak SAR (extrapolated) = 2.18 W/kg

SAR(1 g) = 1.67 mW/g; SAR(10 g) = 1.23 mW/g

Maximum value of SAR (measured) = 1.77 mW/g

Face Scan/Area Scan (71x291x1): Measurement grid: dx=15mm, dy=15mm

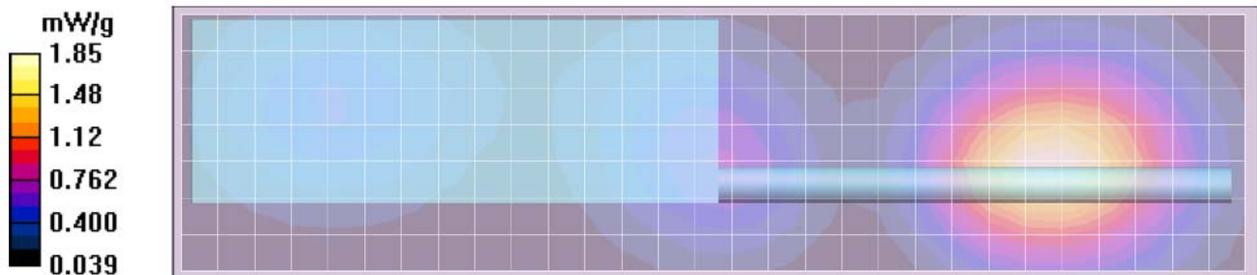
Reference Value = 45.1 V/m; Power Drift = -0.322 dB

Motorola Fast SAR: SAR(1 g) = 1.76 mW/g; SAR(10 g) = 1.26 mW/g

Maximum value of SAR (interpolated) = 1.87 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.76 mW/g



Section 39.0

860MHz Assessment of the offered antenna
(Section 13.8 Table 50)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/18/2009 11:24:19 AM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090418-10
Phantom# / Tissue Temp.: OVAL1019 / 20.7 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAS4000A / 860.5000 (MHz)
Battery: NNTN7038A
Carry Acc. / Cable Acc.: NTN8266B w/ PMLN5331A / PMMN4024A
Start Power: 3.58 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
Electronics: DAE3 Sn401, Calibrated: 7/18/2008
Duty Cycle: 1:1, Medium parameters used: f = 860.5 MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.7 V/m; Power Drift = -0.465 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.804 mW/g; SAR(10 g) = 0.597 mW/g

Maximum value of SAR (measured) = 0.845 mW/g

Ab Scan/Area Scan (61x261x1): Measurement grid: dx=15mm, dy=15mm

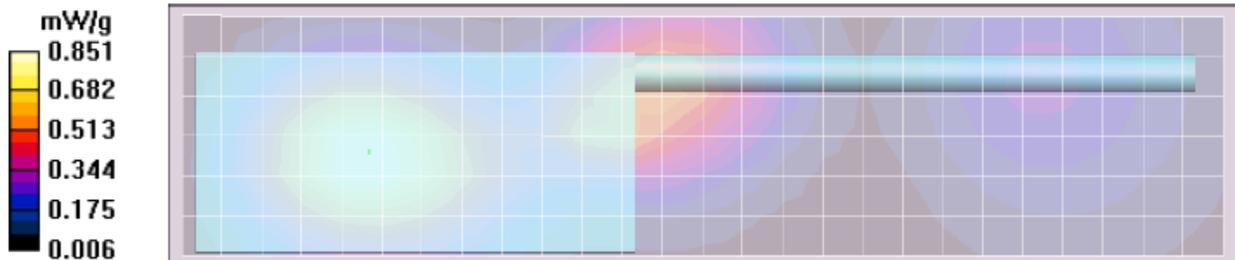
Reference Value = 24.7 V/m; Power Drift = -0.407 dB

Motorola Fast SAR: SAR(1 g) = 0.846 mW/g; SAR(10 g) = 0.597 mW/g

Maximum value of SAR (interpolated) = 0.895 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.842 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/18/2009 4:55:50 PM

Robot# / Run#: DASY4-FL-2 / CM-Ab-090418-17
 Phantom# / Tissue Temp.: OVAL1019 / 20.8 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 860.5000 (MHz)
 Battery: NNTN7033A
 Carry Acc. / Cable Acc.: NTN8266B with PMLN5331A / PMMN4024A
 Start Power: 3.59 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
 Electronics: DAE3 Sn401, Calibrated: 7/18/2008
 Duty Cycle: 1:1, Medium parameters used: $f = 860.5$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.3 V/m; Power Drift = -0.365 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.700 mW/g; SAR(10 g) = 0.476 mW/g

Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.

Maximum value of SAR (measured) = 0.748 mW/g

Ab Scan/Area Scan (61x291x1): Measurement grid: dx=15mm, dy=15mm

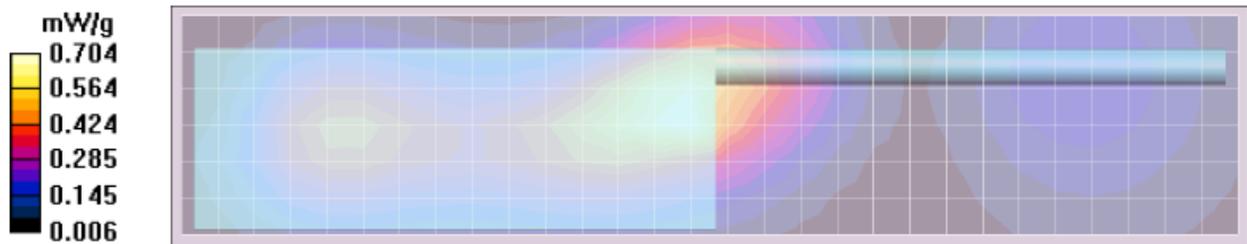
Reference Value = 21.3 V/m; Power Drift = -0.319 dB

Motorola Fast SAR: SAR(1 g) = 0.692 mW/g; SAR(10 g) = 0.478 mW/g

Maximum value of SAR (interpolated) = 0.751 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.749 mW/g



Section 40.0

860MHz Assessment of the offered body worn accessories for short battery
(Section 13.8 Table 51)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/18/2009 12:59:53 PM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090418-12
Phantom# / Tissue Temp.: OVAL1019 / 20.9 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAS4000A / 860.5000 (MHz)
Battery: NNTN7038A
Carry Acc. / Cable Acc.: NTN8266B / PMMN4024A
Start Power: 3.58 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
Electronics: DAE3 Sn401, Calibrated: 7/18/2008
Duty Cycle: 1:1, Medium parameters used: f = 860.5 MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.8 V/m; Power Drift = -0.450 dB

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.929 mW/g

Maximum value of SAR (measured) = 1.36 mW/g

Ab Scan/Area Scan (61x261x1): Measurement grid: dx=15mm, dy=15mm

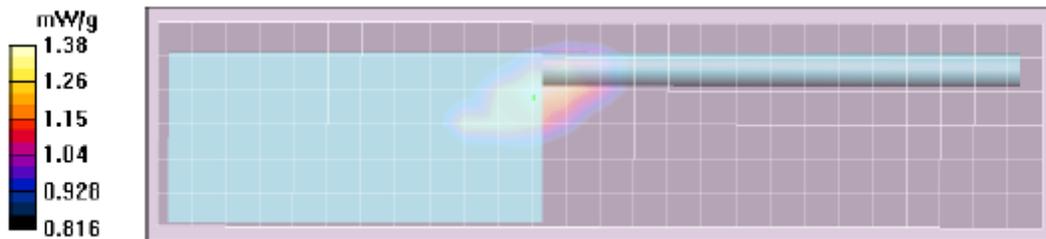
Reference Value = 35.8 V/m; Power Drift = -0.386 dB

Motorola Fast SAR: SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.931 mW/g

Maximum value of SAR (interpolated) = 1.40 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.35 mW/g



Section 41.0

**860MHz Assessment of the offered long batteries
(Section 13.8 Table 52)**

**Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 4/18/2009 7:53:57 PM**

Robot# / Run#: DASY4-FL-2 / CM-Ab-090418-20
 Phantom# / Tissue Temp.: OVAL1019 / 20.9 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 860.5000 (MHz)
 Battery: NNTN7037A
 Carry Acc. / Cable Acc.: NTN8266B with PMLN5331A / PMMN4024A
 Start Power: 3.60 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
 Electronics: DAE3 Sn401, Calibrated: 7/18/2008
 Duty Cycle: 1:1, Medium parameters used: $f = 860.5$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.4 V/m; Power Drift = -0.340 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.708 mW/g; SAR(10 g) = 0.486 mW/g

Maximum value of SAR (measured) = 0.758 mW/g

Ab Scan/Area Scan (61x291x1): Measurement grid: dx=15mm, dy=15mm

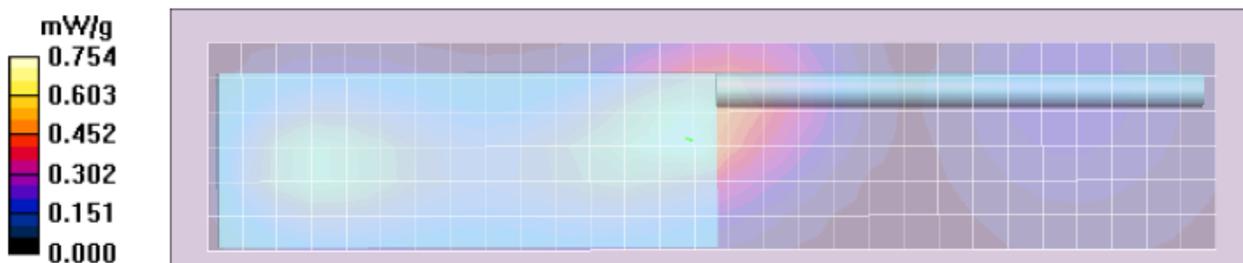
Reference Value = 21.4 V/m; Power Drift = -0.316 dB

Motorola Fast SAR: SAR(1 g) = 0.704 mW/g; SAR(10 g) = 0.485 mW/g

Maximum value of SAR (interpolated) = 0.766 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.754 mW/g



Section 42.0

**860MHz Assessment of the offered body worn accessories for long battery
(Section 13.8 Table 53)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/18/2009 10:18:08 PM

Robot# / Run#: DASY4-FL-2 / CM-Ab-090418-23
 Phantom# / Tissue Temp.: OVAL1019 / 20.9 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 860.5000 (MHz)
 Battery: NNTN7037A
 Carry Acc. / Cable Acc.: NTN8266B / PMMN4024A
 Start Power: 3.60 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
 Electronics: DAE3 Sn401, Calibrated: 7/18/2008
 Duty Cycle: 1:1, Medium parameters used: $f = 860.5$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.4 V/m; Power Drift = -0.349 dB

Peak SAR (extrapolated) = 2.38 W/kg

SAR(1 g) = 1.6 mW/g; SAR(10 g) = 1.09 mW/g

Maximum value of SAR (measured) = 1.73 mW/g

Ab Scan/Area Scan (61x291x1): Measurement grid: dx=15mm, dy=15mm

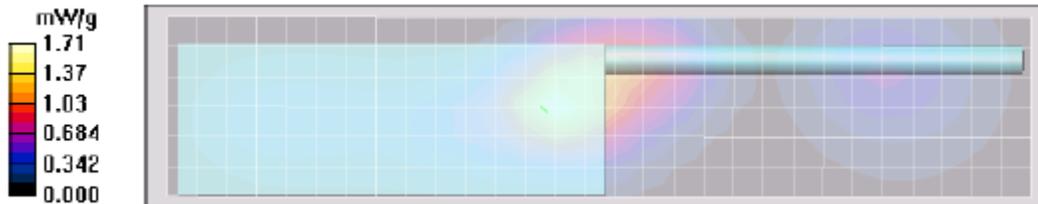
Reference Value = 32.4 V/m; Power Drift = -0.303 dB

Motorola Fast SAR: SAR(1 g) = 1.64 mW/g; SAR(10 g) = 1.1 mW/g

Maximum value of SAR (interpolated) = 1.78 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.71 mW/g



Section 43.0

860MHz Assessment of the offered audio accessories
(Section 13.8 Table 54)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/19/2009 11:48:04 AM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090419-10
Phantom# / Tissue Temp.: OVAL1019 / 20.8 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAS4000A / 860.5000 (MHz)
Battery: NNTN7037A
Carry Acc. / Cable Acc.: NTN8266B / RLN5882A
Start Power: 3.57 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
Electronics: DAE3 Sn374, Calibrated: 1/23/2009
Duty Cycle: 1:1, Medium parameters used: f = 860.5 MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.7 V/m; Power Drift = -0.361 dB

Peak SAR (extrapolated) = 2.41 W/kg

SAR(1 g) = 1.59 mW/g; SAR(10 g) = 1.09 mW/g

Maximum value of SAR (measured) = 1.73 mW/g

Ab Scan/Area Scan (61x291x1): Measurement grid: dx=15mm, dy=15mm

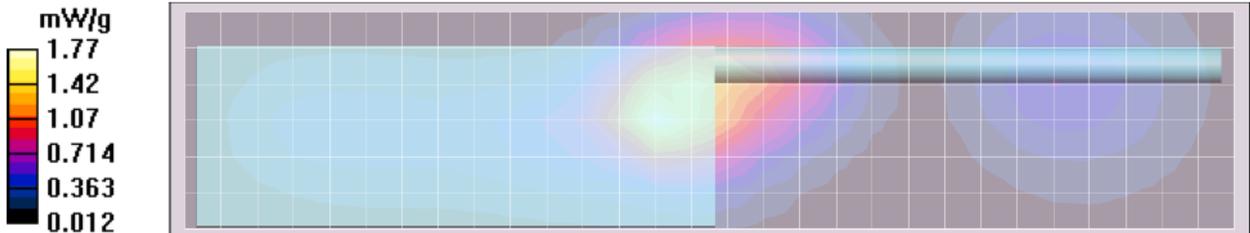
Reference Value = 28.7 V/m; Power Drift = -0.322 dB

Motorola Fast SAR: SAR(1 g) = 1.67 mW/g; SAR(10 g) = 1.12 mW/g

Maximum value of SAR (interpolated) = 1.84 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.71 mW/g



Section 44.0

860MHz Assessment across the frequency band for the offered antenna
(Section 13.8 Table 55)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/19/2009 1:27:15 PM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090419-12
Phantom# / Tissue Temp.: OVAL1019 / 20.9 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAS4000A / 851.0125 (MHz)
Battery: NNTN7037A
Carry Acc. / Cable Acc.: NTN8266B / RLN5882A
Start Power: 3.58 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
Electronics: DAE3 Sn374, Calibrated: 1/23/2009
Duty Cycle: 1:1, Medium parameters used: f = 860.5 MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 29.5 V/m; Power Drift = -0.281 dB

Peak SAR (extrapolated) = 2.89 W/kg

SAR(1 g) = 1.88 mW/g; SAR(10 g) = 1.27 mW/g

Maximum value of SAR (measured) = 2.05 mW/g

Ab Scan/Area Scan (61x291x1): Measurement grid: dx=15mm, dy=15mm

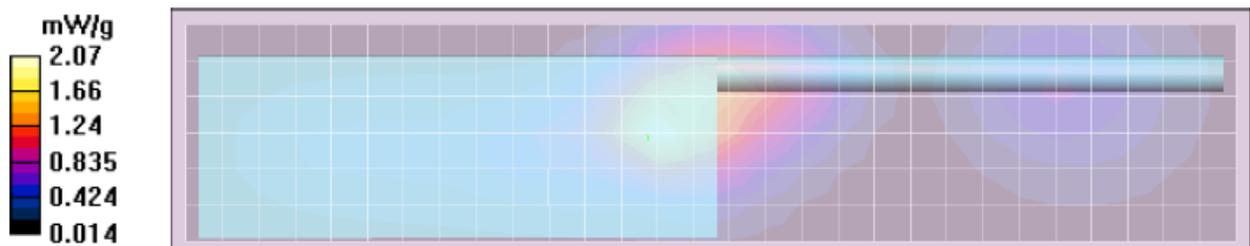
Reference Value = 29.5 V/m; Power Drift = -0.245 dB

Motorola Fast SAR: SAR(1 g) = 1.94 mW/g; SAR(10 g) = 1.3 mW/g

Maximum value of SAR (interpolated) = 2.14 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.01 mW/g



Section 45.0

**860MHz Assessment without body worn accessories at 2.5cm
(Section 13.8 Table 56)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/20/2009 3:15:57 PM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090420-07
 Phantom# / Tissue Temp.: OVAL1019 / 20.5 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 851.0125 (MHz)
 Battery: NNTN7037A long
 Carry Acc. / Cable Acc.: None / RLN5882A
 Start Power: 3.59 (W)

Comments: Front of DUT at 2.5cm. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7
 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: f = 860.5 MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.5 V/m; Power Drift = -0.806 dB

Peak SAR (extrapolated) = 0.715 W/kg

SAR(1 g) = 0.553 mW/g; SAR(10 g) = 0.414 mW/g

Maximum value of SAR (measured) = 0.582 mW/g

Ab Scan/Area Scan (61x291x1): Measurement grid: dx=15mm, dy=15mm

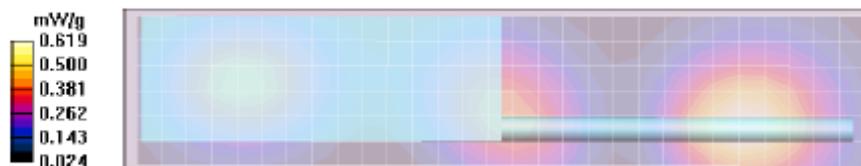
Reference Value = 24.5 V/m; Power Drift = -0.659 dB

Motorola Fast SAR: SAR(1 g) = 0.599 mW/g; SAR(10 g) = 0.428 mW/g

Maximum value of SAR (interpolated) = 0.632 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.580 mW/g



Section 46.0

860MHz Assessment with carry strap
(Section 13.8 Table 57)

Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 4/20/2009 10:21:58 AM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090420-03
Phantom# / Tissue Temp.: OVAL1019 / 20.8 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAS4000A / 851.0125 (MHz)
Battery: NNTN7037A long
Carry Acc. / Cable Acc.: NTN5243A with PMLN5330A / RLN5882A
Start Power: 3.58 (W)

Comments: Tested without loop. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
Electronics: DAE3 Sn374, Calibrated: 1/23/2009
Duty Cycle: 1:1, Medium parameters used: f = 860.5 MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m3

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 29.0 V/m; Power Drift = -0.382 dB

Peak SAR (extrapolated) = 2.26 W/kg

SAR(1 g) = 1.65 mW/g; SAR(10 g) = 1.2 mW/g

Maximum value of SAR (measured) = 1.75 mW/g

Ab Scan/Area Scan (61x291x1): Measurement grid: dx=15mm, dy=15mm

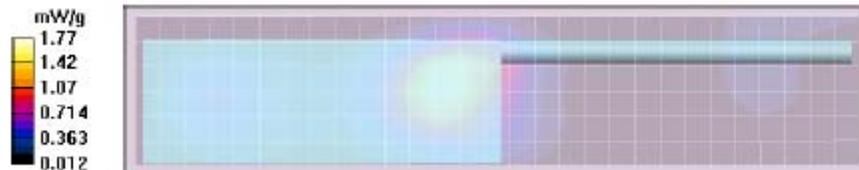
Reference Value = 29.0 V/m; Power Drift = -0.356 dB

Motorola Fast SAR: SAR(1 g) = 1.71 mW/g; SAR(10 g) = 1.18 mW/g

Maximum value of SAR (interpolated) = 1.82 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.63 mW/g



Section 47.0

**860MHz Assessment of the offered Public Safety Mic (PSM) accessories
(Section 13.8 Table 58)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/20/2009 6:55:05 PM

Robot# / Run#: DASY4-FL-2 / CM-Ab-090420-11
 Phantom# / Tissue Temp.: OVAL1019 / 20.3 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAF4002A / 860.5000 (MHz)
 Battery: NNTN7037A
 Carry Acc. / Cable Acc.: PSM clip / PMMN4059A
 Start Power: 3.31 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: f = 860.5 MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 45.2 V/m; Power Drift = -0.811 dB

Peak SAR (extrapolated) = 5.04 W/kg

SAR(1 g) = 2.82 mW/g; SAR(10 g) = 1.78 mW/g

Maximum value of SAR (measured) = 3.15 mW/g

Ab Scan/Area Scan (51x121x1): Measurement grid: dx=15mm, dy=15mm

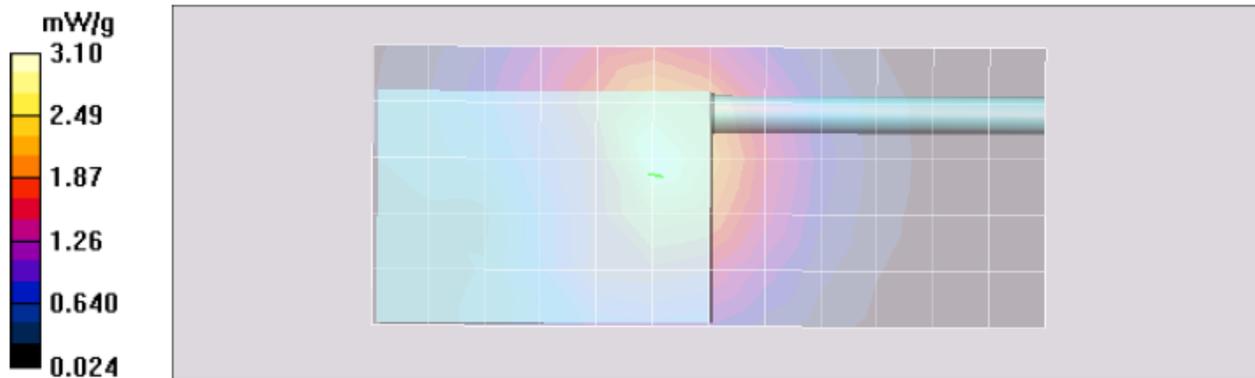
Reference Value = 45.2 V/m; Power Drift = -0.436 dB

Motorola Fast SAR: SAR(1 g) = 2.87 mW/g; SAR(10 g) = 1.92 mW/g

Maximum value of SAR (interpolated) = 3.16 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 3.03 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/20/2009 10:05:48 PM

Robot# / Run#: DASY4-FL-2 / CM-Ab-090420-15
 Phantom# / Tissue Temp.: OVAL1019 / 20.3 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAF4002A / 851.0125 (MHz)
 Battery: NNTN7037A long
 Carry Acc. / Cable Acc.: PSM clip / PMMN4059A
 Start Power: 3.43 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.8, 5.8, 5.8)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 860.5$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ab Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.2 V/m; Power Drift = -1.15 dB

Peak SAR (extrapolated) = 5.91 W/kg

SAR(1 g) = 3.17 mW/g; SAR(10 g) = 1.96 mW/g

Maximum value of SAR (measured) = 3.61 mW/g

Ab Scan/Area Scan (51x121x1): Measurement grid: dx=15mm, dy=15mm

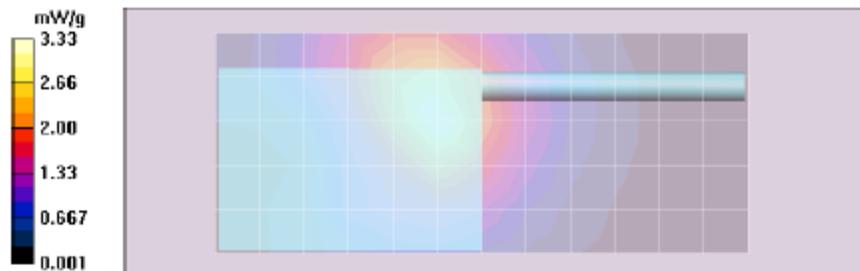
Reference Value = 53.2 V/m; Power Drift = -0.576 dB

Motorola Fast SAR: SAR(1 g) = 3.21 mW/g; SAR(10 g) = 2.13 mW/g

Maximum value of SAR (interpolated) = 3.53 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 3.33 mW/g



Section 48.0

**860MHz Assessment of the offered antenna
(Section 13.8 Table 59)**

**Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 4/21/2009 12:00:36 AM**

Robot# / Run#: DASY4-FL-2 / CM-Face-090420-17
 Phantom# / Tissue Temp.: OVAL1018 / 20.5 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 860.5000 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: None / None
 Start Power: 3.59 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.
 Front of DUT toward phantom.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.86, 5.86, 5.86)
 Electronics: DAE3 Sn374, Calibrated: 1/23/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 860.5$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 42.2$; $\rho = 1000$ kg/m³

Face Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.9 V/m; Power Drift = -0.844 dB

Peak SAR (extrapolated) = 0.947 W/kg

SAR(1 g) = 0.713 mW/g; SAR(10 g) = 0.519 mW/g

Maximum value of SAR (measured) = 0.753 mW/g

Face Scan/Area Scan (71x261x1): Measurement grid: dx=15mm, dy=15mm

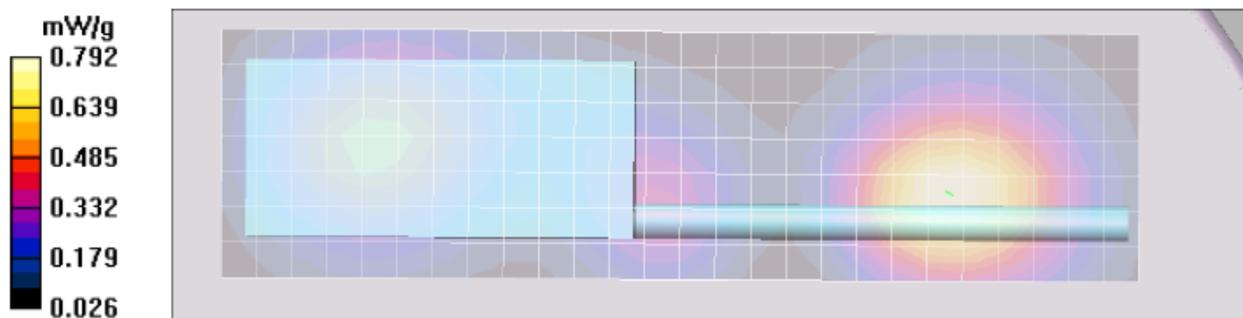
Reference Value = 28.9 V/m; Power Drift = -0.718 dB

Motorola Fast SAR: SAR(1 g) = 0.778 mW/g; SAR(10 g) = 0.553 mW/g

Maximum value of SAR (interpolated) = 0.820 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.747 mW/g



Section 49.0

860MHz Assessment of the offered batteries
(Section 13.8 Table 60)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/21/2009 12:00:36 AM

Robot# / Run#: DASY4-FL-2 / CM-Face-090420-17
Phantom# / Tissue Temp.: OVAL1018 / 20.5 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAS4000A / 860.5000 (MHz)
Battery: NNTN7038A
Carry Acc. / Cable Acc.: None / None
Start Power: 3.59 (W)

Comments: Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.
Front of DUT toward phantom.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.86, 5.86, 5.86)
Electronics: DAE3 Sn374, Calibrated: 1/23/2009
Duty Cycle: 1:1, Medium parameters used: f = 860.5 MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 42.2$; $\rho = 1000$ kg/m³

Face Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.9 V/m; Power Drift = -0.844 dB

Peak SAR (extrapolated) = 0.947 W/kg

SAR(1 g) = 0.713 mW/g; SAR(10 g) = 0.519 mW/g

Maximum value of SAR (measured) = 0.753 mW/g

Face Scan/Area Scan (71x261x1): Measurement grid: dx=15mm, dy=15mm

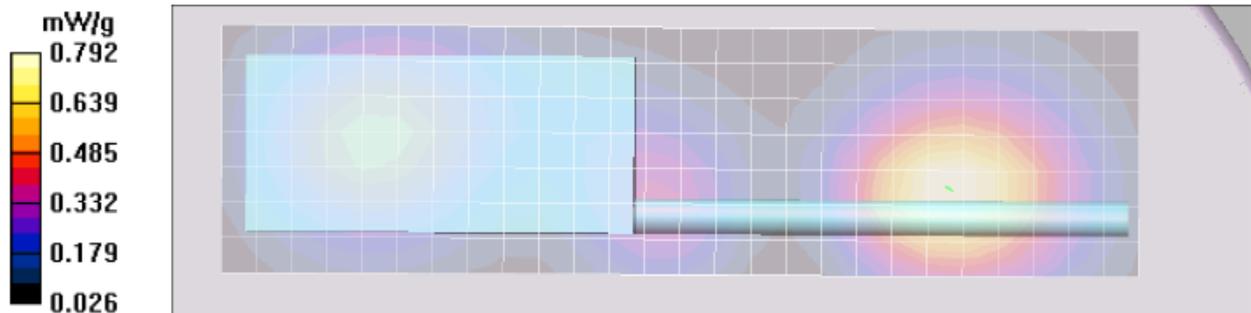
Reference Value = 28.9 V/m; Power Drift = -0.718 dB

Motorola Fast SAR: SAR(1 g) = 0.778 mW/g; SAR(10 g) = 0.553 mW/g

Maximum value of SAR (interpolated) = 0.820 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.747 mW/g



Section 50.0

**860MHz Assessment of “receive only” audio accessories
(Section 13.8 Table 61)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/21/2009 1:19:01 PM

Robot# / Run#: DASY4-FL-2 / HvH-Face-090421-06
 Phantom# / Tissue Temp.: OVAL1018 / 20.6 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
 Antenna / TX Freq.: PMAS4000A / 860.5000 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: None / RLN5879A
 Start Power: 3.58 (W)

Comments: Front toward phantom. Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7
 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.86, 5.86, 5.86)
 Electronics: DAE3 Sn357, Calibrated: 3/12/2009
 Duty Cycle: 1:1, Medium parameters used: f = 860.5 MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³

Face Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.8 V/m; Power Drift = -0.452 dB

Peak SAR (extrapolated) = 0.703 W/kg

SAR(1 g) = 0.531 mW/g; SAR(10 g) = 0.387 mW/g

Maximum value of SAR (measured) = 0.563 mW/g

Face Scan/Area Scan (71x261x1): Measurement grid: dx=15mm, dy=15mm

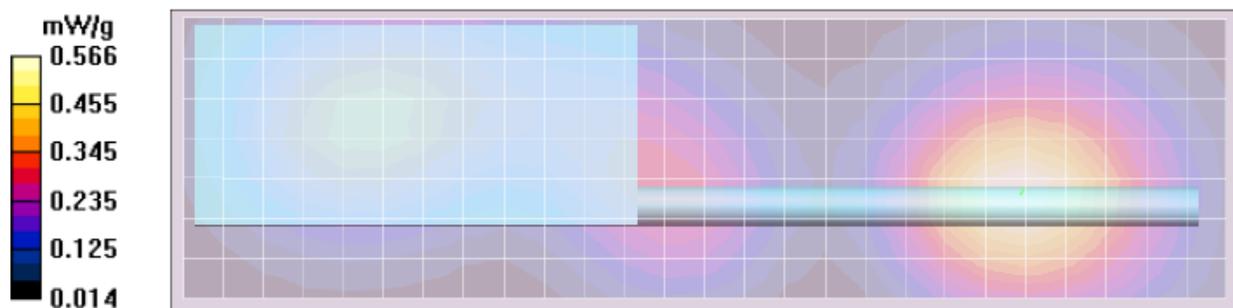
Reference Value = 22.8 V/m; Power Drift = -0.398 dB

Motorola Fast SAR: SAR(1 g) = 0.550 mW/g; SAR(10 g) = 0.391 mW/g

Maximum value of SAR (interpolated) = 0.581 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.558 mW/g



Section 51.0

860MHz Assessment across the frequency band for offered antenna (Section 13.8 Table 62)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/21/2009 2:11:17 PM

Robot# / Run#: DASY4-FL-2 / HvH-Face-090421-07
Phantom# / Tissue Temp.: OVAL1018 / 20.5 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK412
Antenna / TX Freq.: PMAS4000A / 851.0125 (MHz)
Battery: NNTN7038A
Carry Acc. / Cable Acc.: None / None
Start Power: 3.59 (W)

Comments: Front toward phantom.
Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(5.86, 5.86, 5.86)
Electronics: DAE3 Sn357, Calibrated: 3/12/2009
Duty Cycle: 1:1, Medium parameters used: f = 860.5 MHz; sigma = 0.94 mho/m; epsilon = 42; rho = 1000 kg/m3

Face Scan/7x7x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.1 V/m; Power Drift = -0.811 dB

Peak SAR (extrapolated) = 0.967 W/kg

SAR(1 g) = 0.731 mW/g; SAR(10 g) = 0.536 mW/g

Maximum value of SAR (measured) = 0.776 mW/g

Face Scan/Area Scan (71x261x1): Measurement grid: dx=15mm, dy=15mm

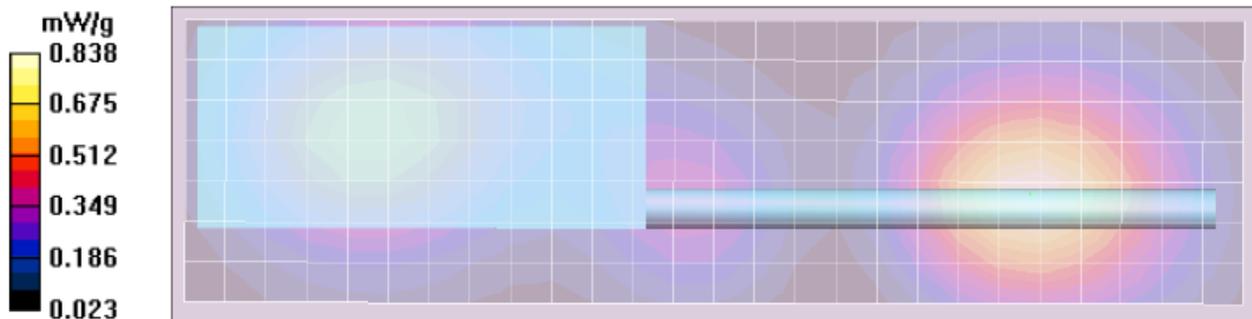
Reference Value = 28.1 V/m; Power Drift = -0.780 dB

Motorola Fast SAR: SAR(1 g) = 0.805 mW/g; SAR(10 g) = 0.572 mW/g

Maximum value of SAR (interpolated) = 0.852 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.786 mW/g



Section 52.0

UHF Short scan assessment
(Section 13.9 Table 63)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 4/23/2009 4:56:05 PM

Robot# / Run#: DASY4-FL-2 / HvH-Ab-090423-09
Phantom# / Tissue Temp.: OVAL1016 / 20.8 (C)
DUT Model# / Serial#: H97TGD9PW1AN (WITH QA00569AA AND QA00575AA) / Q02KK40M
Antenna / TX Freq.: PMAE4065A / 380.0125 (MHz)
Battery: NNTN7037A
Carry Acc. / Cable Acc.: NTN8266B / RMN5058A
Start Power: 5.40 (W)

Comments: Shortened scan.

Full Scan tested with Volume Scan Template-Rev.4 and Modified for 7x7x7 Cube=5mm step size.

Note: Prior to recording the calculated SAR, the measured SAR values need to be adjusted/corrected in accordance with FCD-1868 Rev. 1 draft

Calculated: 13.100 mW/g (1g); 8.580 mw/g (10 g)

Probe: ES3DV3 - SN3147, Calibrated: 2/13/2009, ConvF(6.69, 6.69, 6.69)

Electronics: DAE3 Sn357, Calibrated: 3/12/2009

Duty Cycle: 1:1, Medium parameters used: f = 425 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 56.9$; $\rho = 1000$ kg/m3

Ab Scan/7x7x7 Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 122.8 V/m; Power Drift = -0.0582 dB

Peak SAR (extrapolated) = 21.4 W/kg

SAR(1 g) = 13.1 mW/g; SAR(10 g) = 8.58 mW/g

Maximum value of SAR (measured) = 13.9 mW/g

Ab Scan/Area Scan (71x251x1): Measurement grid: dx=15mm, dy=15mm

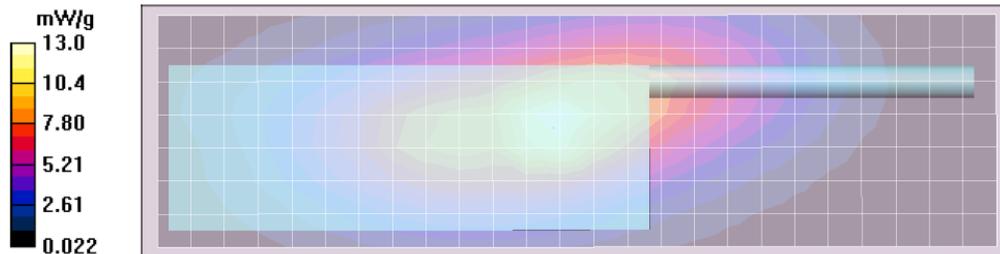
Reference Value = 101.1 V/m; Power Drift = -0.161 dB

Motorola Fast SAR: SAR(1 g) = 12.5 mW/g; SAR(10 g) = 9.05 mW/g

Maximum value of SAR (interpolated) = 13.3 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 13.7 mW/g



APPENDIX G
DUT Supplementary Data (Power slump)

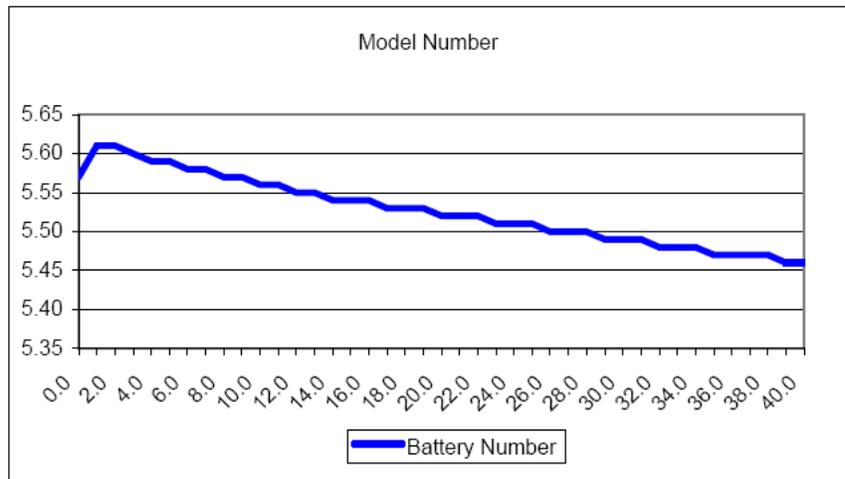
Model # H97TGD9PW1AN
Serial # Q02KK412

Battery NNTN7037A
Frequency 380.0125
Date 5/12/2009

Transmit Mode CW
Audio Accessory RMN5058A

TX TIME **Measured Power**
 (minutes) **Watts**

TX TIME (minutes)	Measured Power (Watts)	Battery Number
0.0	5.57	10:37AM
1.0	5.61	
2.0	5.61	
3.0	5.60	
4.0	5.59	
5.0	5.59	
6.0	5.58	
7.0	5.58	
8.0	5.57	
9.0	5.57	
10.0	5.56	
11.0	5.56	
12.0	5.55	
13.0	5.55	
14.0	5.54	
15.0	5.54	
16.0	5.54	
17.0	5.53	
18.0	5.53	
19.0	5.53	
20.0	5.52	
21.0	5.52	
22.0	5.52	
23.0	5.51	
24.0	5.51	
25.0	5.51	
26.0	5.50	
27.0	5.50	
28.0	5.50	
29.0	5.49	
30.0	5.49	
31.0	5.49	
32.0	5.48	
33.0	5.48	
34.0	5.48	
35.0	5.47	
36.0	5.47	
37.0	5.47	
38.0	5.47	
39.0	5.46	
40.0	5.46	



Appendix H DUT Test Position Photos

Photos available in Exhibit 7B

Appendix I
DUT and Body worn Accessory Photos

Photos available in Exhibit 7B

Appendix J
Additional Data Requested by FCC
(Inquiry Tracking number 341759)

Re: Tracking Number: 341759, with FCC ID: AZ489FT7040.
 Test dates: 9/4/09 – 9/13/09

As illustrated in the following, Motorola conducted a significant number of additional tests (indicated by red SAR numbers in the following tables) to address several of the issues raised in the latest FCC responses in the KDB, received on September 2nd and 3rd 2009.

Specifically, the points raised in the FCC response that are addressed in the following are:

“G) further to items F) 4) and C) 2) of FCC responses in this KDB, SAR results needed to establish baseline for subsequent test reduction considerations, i.e. the testing procedures should start by determining the highest SAR for each battery category (e.g. long and short) without body-worn and audio accessories, for H/M/L for each antenna (i.e. particularly 450 MHz band for 4065A & 4000A)

H) further to items E) and C) 1) of FCC responses in this KDB, when two or more antennas are very similar (e.g. same dimensions, freq. ranges, etc) then reduced testing might be considered, however additional info and results beyond only UHF Test Flowchart Step1 and Step7 is appropriate for 4000A antenna”

Regarding point G), additional measurements were conducted to establish the aforementioned baseline. Measurements were done in front of the face (intended-use position) and not at the body, since any configuration at the body without an approved carry and cable accessory is not an intended-use position. Indeed, the measurements conducted using the head tissue in the intended-use “face” configuration achieve the desired result of determining the impact of different batteries in a test condition unperturbed by other factors such as the carry and cable accessories.

The following table reports the SAR for all antenna/battery combinations at 425 MHz and 454 MHz, in accordance with the FCC suggested approach at point C)7) of the FCC response received on July 16th 2009 [using 425 MHz instead of 422.1 MHz, as discussed with FCC staff, since that data was already available] applied to the relevant FCC Part 90 band (406-470 MHz). As seen in earlier measurements, the new results show that antenna PMAE4065A produces consistently higher SAR than antenna PMAS4000A.

Drill-down Step #	Test Freq (MHz)	Battery	Carry accessory	Cable Accessory	Max 1-g SAR with antenna PMAE4065A	Max 1-g SAR with antenna PMAS4000A	Delta (dB) relative to antenna PMAE4065A
2	425	NNTN7038A short	None	None	2.38 W/kg	1.03 W/kg	-3.6
2	425	NNTN7035A long	None	None	1.87 W/kg	1.18 W/kg	-2.0
2	425	NNTN7034A long	None	None	2.07 W/kg	1.10 W/kg	-2.8
2	425	NNTN7033A long	None	None	1.91 W/kg	1.13 W/kg	-2.3
2	425	NNTN7037A long	None	None	2.13 W/kg	1.04 W/kg	-3.1
2	454	NNTN7038A short	None	None	1.94 W/kg	1.03 W/kg	-2.7
2	454	NNTN7035A long	None	None	2.08 W/kg	1.32 W/kg	-2.0
2	454	NNTN7034A long	None	None	2.11 W/kg	1.12 W/kg	-2.8
2	454	NNTN7033A long	None	None	1.84 W/kg	1.03 W/kg	-2.5
2	454	NNTN7037A long	None	None	1.97 W/kg	1.22 W/kg	-2.1

The higher peak SAR for each antenna is underlined in the table. The corresponding antenna/battery configurations were then measured across the other channels in the 406-470 MHz band (i.e., 406, 438, 469 MHz), and reported in the following table (new measurements in red).

Drill-down Step #	Test Freq (MHz)	Battery	Carry accessory	Cable Accessory	Max 1-g SAR with antenna PMAE4065A	Max 1-g SAR with antenna PMAS4000A	Delta (dB) relative to antenna PMAE4065A
4	406	NNTN7038A short	None	None	<u>3.10 W/kg</u>	1.14 W/kg	-4.3
4	438	NNTN7038A short	None	None	2.15 W/kg	1.02 W/kg	-3.2
4	469	NNTN7038A short	None	None	1.76 W/kg	0.92 W/kg	-2.8
4	406	NNTN7035A long	None	None	N/A	1.09 W/kg	N/A
4	438	NNTN7035A long	None	None	N/A	1.20 W/kg	N/A
4	469	NNTN7035A long	None	None	N/A	1.44 W/kg	N/A
4	406	NNTN7037A long	None	None	<u>2.37 W/kg</u>	0.99 W/kg	-3.8
4	438	NNTN7037A long	None	None	2.02 W/kg	1.15 W/kg	-2.4
4	469	NNTN7037A long	None	None	2.17 W/kg	1.38 W/kg	-2.0

Observe that the frequency sweep was conducted for both antennas with battery NNTN7037A since in the drill-down carried out earlier this battery belonged to the higher overall SAR accessory combination, so this extra step was deemed useful to further confirm the consistency with prior findings, in particular the consistent finding regarding the SAR difference between the two antennas which was the reason why the drill down was conducted with antenna PMAE4065A.

Finally, observe that the measured SAR values for the four long batteries in these “baseline” measurements show that they are all equivalent in terms of SAR, being within +/- one measurement standard deviation. Therefore the body drill down conducted in the earlier measurements, based on the long battery NNTN7037A, indeed yields the most conservative accessory combination.

Regarding point H), additional measurements were conducted at Steps 4 and 5 of the mentioned test flow chart to further confirm that antenna PMAS4000A exhibits significantly lower SAR than antenna PMAE4065A. The results of these additional measurements are presented in the following table (red SAR values), which also includes those presented earlier relative to Step 1. It should be observed that the additional tests were conducted at both 425 MHz and 454 MHz, in accordance with the FCC suggested approach at point C)7) of the FCC response received on July 16th 2009 [using 425 MHz instead of 422.1 MHz since that data was already available] in the relevant FCC Part 90 band (406-470 MHz).

Drill-down Step #	Test Freq (MHz)	Battery	Carry accessory	Cable Accessory	Max 1-g SAR with antenna PMAE4065A	Max 1-g SAR with antenna PMAS4000A	Delta (dB) relative to antenna PMAE4065A
1	425	NNTN7038A short	NTN8266B belt clip w/ PMLN5331A holster	PMMN4024A RSM	2.69 W/kg	1.18 W/kg	-3.6
1	425	NNTN7035A long	NTN8266B belt clip w/ PMLN5331A holster	PMMN4024A RSM	3.07 W/kg	1.45 W/kg	-3.3
4	425	NNTN7038A short	NTN8266B belt clip	PMMN4024A RSM	4.82 W/kg	1.97 W/kg	-3.9
5	425	NNTN7037A long	NTN8266B belt clip	PMMN4024A RSM	5.03 W/kg	2.58 W/kg	-2.9
4	454	NNTN7038A short	NTN8266B belt clip	PMMN4024A RSM	3.93 W/kg	1.89 W/kg	-3.2
5	454	NNTN7037A long	NTN8266B belt clip	PMMN4024A RSM	4.87 W/kg	2.00 W/kg	-3.9

The new measurements confirm that the peak SAR for antenna PMAS4000A is significantly lower than for antenna PMAE4065A, the dB-deltas being of the same order as those observed earlier at Step 1.

Such a consistency was also verified by performing additional measurements across the frequency band, at five channels as requested in the aforementioned FCC response, for the accessory configuration that was selected at the end of the drill-down. The results, including the 380 MHz channel that falls outside the FCC Part 90 band, are reported in the following table.

Drill-down Step #	Test Freq (MHz)	Battery	Carry accessory	Cable Accessory	Max 1-g SAR with antenna PMAE4065A	Max 1-g SAR with antenna PMAS4000A	Delta (dB) relative to antenna PMAE4065A
7	380	NNTN7037A long	NTN8266B belt clip	RMN5058A Headset	6.47 W/kg	3.31 W/kg	-2.9
7	406	NNTN7037A long	NTN8266B belt clip	RMN5058A Headset	5.56 W/kg	2.48 W/kg	-3.5
7	425	NNTN7037A long	NTN8266B belt clip	RMN5058A Headset	5.10 W/kg	2.51 W/kg	-3.1
7	438	NNTN7037A long	NTN8266B belt clip	RMN5058A Headset	4.11 W/kg	2.34 W/kg	-2.5
7	454	NNTN7037A long	NTN8266B belt clip	RMN5058A Headset	4.50 W/kg	2.26 W/kg	-3.0
7	469.988	NNTN7037A long	NTN8266B belt clip	RMN5058A Headset	4.89 W/kg	2.34 W/kg	-3.2

The range of dB-deltas between antennas observed in this table is once again consistent with the ones at the earlier steps in the drill-down. This is further confirmation of the reliability of the earlier drill down results that were based on the early exclusion of antenna PMAS4000A.

In conclusion, the data set presented in the foregoing addresses the FCC requests in the September 2nd and 3rd 2009 KDB response, and provides strong confirmation that the drill down performed in the earlier measurements previously submitted to the FCC yields the product/accessory combination with highest SAR.