

**MOTOROLA SOLUTIONS**

CERTIFICATE 2518.05

DECLARATION OF COMPLIANCE SAR ASSESSMENT PCII Report Part 2 of 2**Motorola Solutions Inc.****EME Test Laboratory**

Motorola Solutions Malaysia Sdn Bhd

Plot 2A, Medan Bayan Lepas,

Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.

Date of Report: 4/17/2020**Report Revision:** B

Responsible Engineer: Jue Yie Goh (EME Engineer)
Report Author: Puteri Alifah Ilyana Binti Nor Rahim (EME Engineer)
Date/s Tested: 2/14/2020-2/15/2020, 2/17/2020-2/26/2020, 3/3/2020, 04/08/2020-04/11/2020
Manufacturer: Motorola Solutions Inc.
DUT Description: Handheld Portable – APX 8000HXE ST U/V/7_800 M1.5 Green (with XE Top Control, Green Impact Housing, M1.5 No keypad / No Front Display)
Test TX mode(s): CW (PTT), Bluetooth, and WLAN 802.11b/g/n
Max. Power output: 6.6 W (VHF), 5.7 W (UHF), 2.99 W (700 MHz band), 3.6 W (800 MHz band), 10 mW (Bluetooth), 28.3 mW (802.11b), 11.2 mW (802.11g/n)
Nominal Power: 6.0 W (VHF), 5.0 W (UHF), 2.5 W (700 MHz band), 3.0 W (800 MHz band), 10 mW (Bluetooth), 28.3 mW (802.11b), 11.2 mW (802.11g/n)
Tx Frequency Bands: LMR 136-174 MHz, 380-520 MHz, 762-806 MHz, 806-870 MHz; Bluetooth 2402-2480 MHz; WLAN 2400-2483.5 MHz
Signaling type: FM (LMR), FHSS (Bluetooth), 802.11b/g/n (WLAN)
Model(s) Tested: H91TGD9PW4AN (NUW1046)
Model(s) Certified: H91TGD9PW4AN (NUW1046)
Serial Number(s): 673TVX6734, 673TVX6754, 673TVX6776, 673TVX6787, 673TVX6818, 673TVX6845, 673TVX6863
Classification: Occupational/Controlled
Applicant Name: Motorola Solutions Inc.
Applicant Address: 800 West Sunrise Boulevard, Fort Lauderdale, Florida 33322
FCC ID: AZ489FT7111; 150.8-173.4 MHz, 406.1-512 MHz, 769-775 MHz, 799-824 MHz, 851-869 MHz, 2412-2462 MHz
This report contains results that are immaterial for FCC equipment approval, which are clearly identified.
IC: 109U-89FT7111; 138-174 MHz, 406.1-430 MHz, 450-470 MHz, 769-775 MHz, 799-824 MHz, 851-869 MHz, 2412-2462 MHz
This report contains results that are immaterial for ISED equipment approval, which are clearly identified
ISED Test Site registration: 24843
FCC Test Firm Registration Number: 823256

The test results clearly demonstrate compliance with FCC Occupational/Controlled RF Exposure limits of 8 W/kg averaged over 1 gram per the requirements of FCC 47 CFR § 2.1093 and ISED RSS-102 (Issue 5).

Based on the information and the testing results provided herein, the undersigned certifies that when used as stated in the operating instructions supplied, said product complies with the national and international reference standards and guidelines listed in section 4.0 of this report (no deviation from standard methods). This report shall not be reproduced without written approval from an officially designated representative of the Motorola Solutions Inc EME Laboratory. I attest to the accuracy of the data and assume full responsibility for the completeness of these measurements. This reporting format is consistent with the suggested guidelines of the TIA TSB-150 December 2004. The results and statements contained in this report pertain only to the device(s) evaluated.

Tiong Nguk Ing
Deputy Technical Manager (Approved Signatory)
Approval Date: 4/17/2020

Appendix D

System Verification Check Scans

Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/18/2020 10:34:23 PM

Robot#: DASY5-PG-1 | Run#: IZ-SYSP-150B-200218-15
 Dipole Model#: CLA150
 Phantom#: ELI4 1016
 Tissue Temp: 20.8 (C)
 Serial#: 4016
 Test Freq: 150.0000 (MHz)
 Start Power: 1000 (mW)
 Rotation (1D): 0.17 dB
 Adjusted SAR (1W): 4.31 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 150$ MHz; $\sigma = 0.77$ S/m; $\epsilon_r = 59.3$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 150 MHz, ConvF(13.5, 13.5, 13.5) @ 150 MHz

Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (81x81x1):

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

Reference Value = 90.08 V/m; Power Drift = -0.16 dB

Fast SAR: SAR(1 g) = 5.16 W/kg; SAR(10 g) = 3.65 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 6.19 W/kg

Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (6x6x7)/Cube 0:

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

Reference Value = 90.08 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 7.52 W/kg

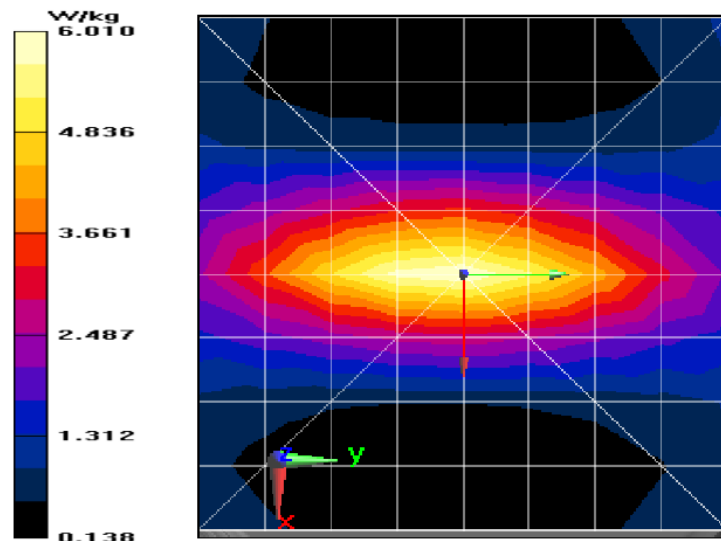
SAR(1 g) = 4.31 W/kg; SAR(10 g) = 2.76 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.11 W/kg

Below 2 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

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

Maximum value of SAR (measured) = 6.13 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/20/2020 12:14:33 AM

Robot#: DASY5-PG-1 | Run#: IZ-SYSP-150H-200220-01#
 Dipole Model#: CLA150
 Phantom#: ELI4 1109
 Tissue Temp: 21.3 (C)
 Serial#: 4016
 Test Freq: 150.0000 (MHz)
 Start Power: 1000 (mW)
 Rotation (1D): 0.16 dB
 Adjusted SAR (1W): 3.96 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 150$ MHz; $\sigma = 0.78$ S/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 150 MHz, ConvF(13.81, 13.81, 13.81) @ 150 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (81x81x1):

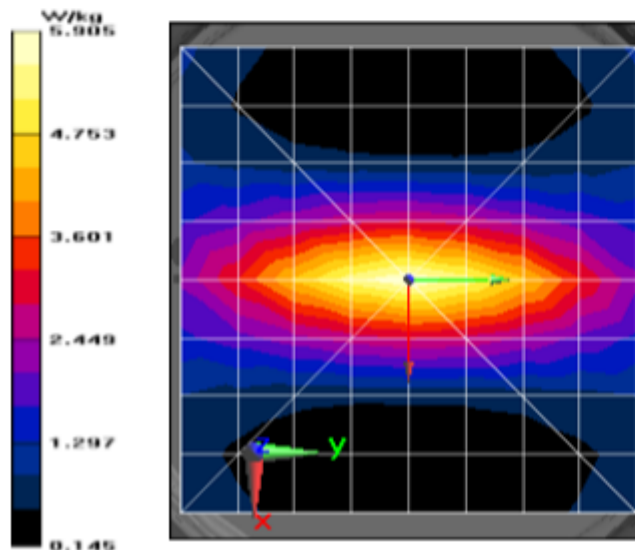
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 87.02 V/m; Power Drift = -0.02 dB
Fast SAR: SAR(1 g) = 4.81 W/kg; SAR(10 g) = 3.39 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 5.94 W/kg

Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (5x6x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 87.02 V/m; Power Drift = -0.02 dB
 Peak SAR (extrapolated) = 7.31 W/kg
SAR(1 g) = 3.96 W/kg; SAR(10 g) = 2.52 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 5.86 W/kg

Below 2 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm
 Maximum value of SAR (measured) = 5.89 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 4/9/2020 6:21:53 PM

Robot#: DASY5-PG-4 | Run#: NZ-SYSP-150H-200409-10
 Dipole Model# CLA150
 Phantom#: ELI4 1016
 Tissue Temp: 20.6 (C)
 Serial#: 4016
 Test Freq: 150.0000 (MHz)
 Start Power: 1000 (mW)
 Rotation (1D): 0.200 dB
 Adjusted SAR (1W): 3.93 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 150$ MHz; $\sigma = 0.75$ S/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7511, Calibrated: 10/24/2019, Frequency: 150 MHz, ConvF(12.15, 12.15, 12.15) @ 150 MHz
 Electronics: DAE4 Sn729, Calibrated: 10/16/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (81x81x1):

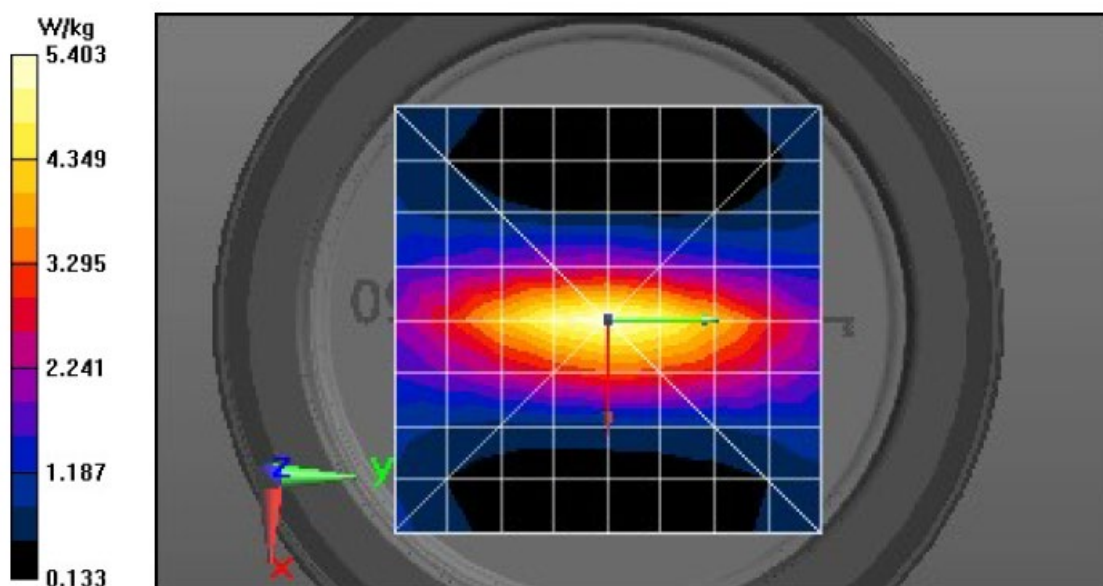
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 86.66 V/m; Power Drift = -0.14 dB
 Fast SAR: SAR(1 g) = 4.63 W/kg; SAR(10 g) = 3.27 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 5.53 W/kg

Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 86.66 V/m; Power Drift = -0.14 dB
 Peak SAR (extrapolated) = 6.65 W/kg
 SAR(1 g) = 3.93 W/kg; SAR(10 g) = 2.55 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 5.46 W/kg

Below 2 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm
 Maximum value of SAR (measured) = 5.48 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/17/2020 8:18:55 AM

Robot#: DASY5-PG-1 | Run#: ZZ-SYSP-450B-200217-01
 Dipole Model# D450V2
 Phantom#: ELI5 1150
 Tissue Temp: 20.7 (C)
 Serial#: 1053
 Test Freq: 450.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.093 dB
 Adjusted SAR (1W): 4.72 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.97$ S/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 450 MHz, ConvF(12.06, 12.06, 12.06) @ 450 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x201x1):

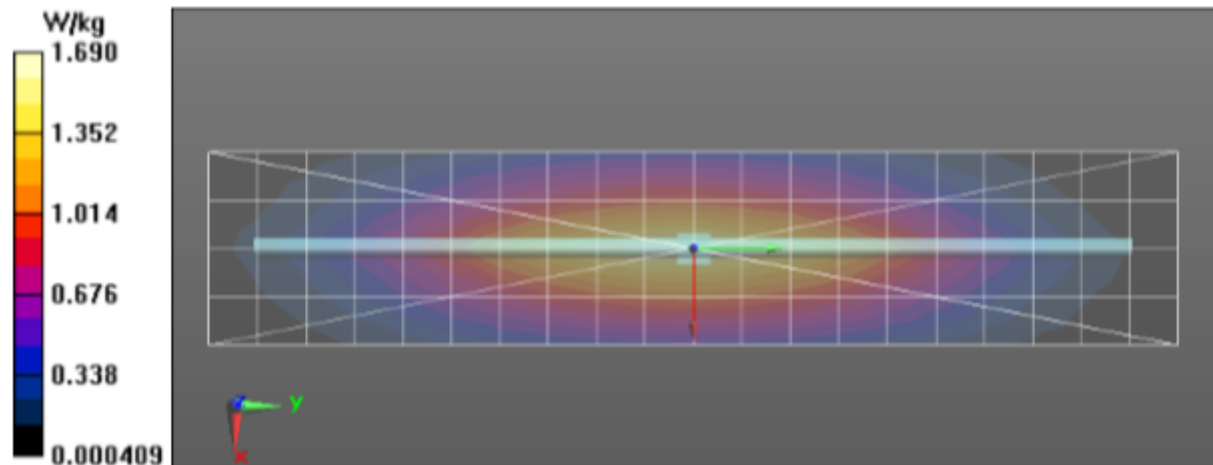
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 41.95 V/m; Power Drift = -0.04 dB
Fast SAR: SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.895 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 1.68 W/kg

Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 41.95 V/m; Power Drift = -0.04 dB
 Peak SAR (extrapolated) = 1.99 W/kg
SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.784 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 1.68 W/kg

Below 2 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm
 Maximum value of SAR (measured) = 1.69 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/18/2020 8:01:34 AM

Robot#: DASY5-PG-1 | Run#: ZZ-SYSP-450B-200218-04
Dipole Model#: D450V2
Phantom#: ELI4 1040
Tissue Temp: 20.2 (C)
Serial#: 1053
Test Freq: 450.0000 (MHz)
Start Power: 250 (mW)
Rotation (1D): 0.095 dB
Adjusted SAR (1W): 4.76 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 55.5$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 450 MHz, ConvF(12.06, 12.06, 12.06) @ 450 MHz

Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x201x1):

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

Reference Value = 42.19 V/m; Power Drift = 0.01 dB

Fast SAR: SAR(1 g) = 1.31 W/kg; SAR(10 g) = 0.898 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.65 W/kg

Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

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

Reference Value = 42.19 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.94 W/kg

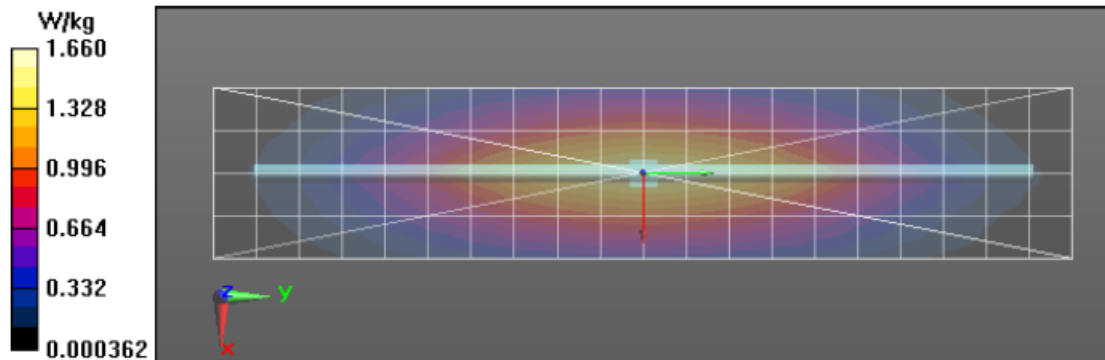
SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.803 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.65 W/kg

Below 2 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

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

Maximum value of SAR (measured) = 1.66 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 4/10/2020 7:59:46 AM

Robot#: DASY5-PG-4 | Run#: NZ-SYSP-450B-200409-06
 Dipole Model# D450V3
 Phantom#: ELI5 1150
 Tissue Temp: 20.3 (C)
 Serial#: 1054
 Test Freq: 450.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.19 dB
 Adjusted SAR (1W): 4.52 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 54.9$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7511, Calibrated: 10/24/2019, Frequency: 450 MHz, ConvF(10.59, 10.59, 10.59) @ 450 MHz
 Electronics: DAE4 Sn729, Calibrated: 10/16/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x241x1):

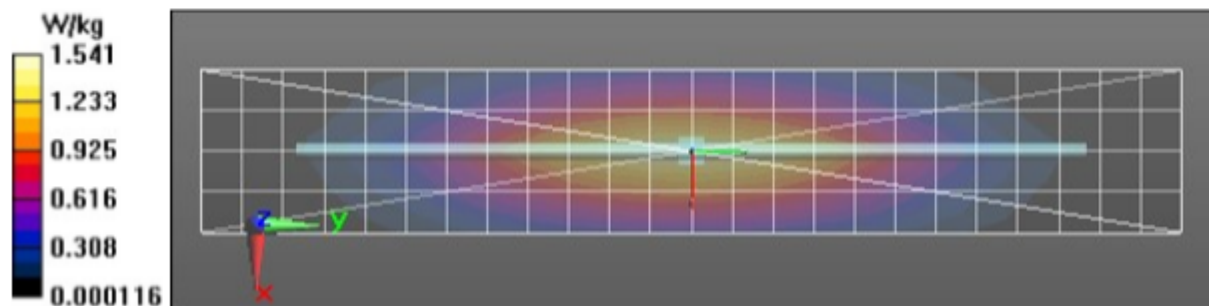
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 40.89 V/m; Power Drift = -0.01 dB
 Fast SAR: SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.843 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 1.54 W/kg

Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 40.89 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 1.79 W/kg
 SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.762 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 1.54 W/kg

Below 2 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm
 Maximum value of SAR (measured) = 1.53 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/23/2020 7:34:35 PM

Robot#: DASY5-PG-1 | Run#: ZZ-SYSP-450H-200223-13
Dipole Model#: D450V3
Phantom#: ELI4 1109
Tissue Temp: 20.7 (C)
Serial#: 1053
Test Freq: 450.0000(MHz)
Start Power: 250 (mW)
Rotation (1D): 0.088 dB
Adjusted SAR (1W): 4.68 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 43.1$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 450 MHz, ConvF(11.84, 11.84, 11.84) @ 450 MHz
Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x231x1):

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

Reference Value = 43.96 V/m; Power Drift = -0.04 dB

Fast SAR: SAR(1 g) = 1.28 W/kg; SAR(10 g) = 0.891 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.67 W/kg

Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

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

Reference Value = 43.96 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.98 W/kg

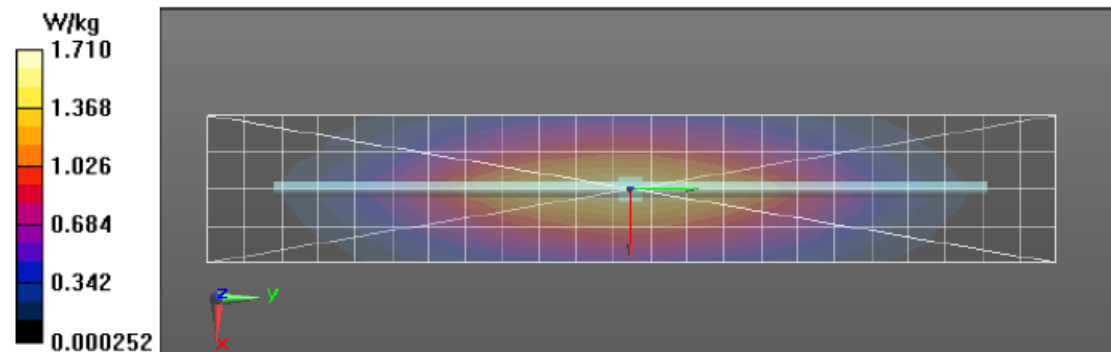
SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.777 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.68 W/kg

Below 2 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

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

Maximum value of SAR (measured) = 1.71 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 4/9/2020 11:41:35 PM

Robot#: DASY5-PG-4 | Run#: ZZ(MA)-SYSP-450H-200409-14
 Dipole Model# D450V3
 Phantom#: ELI4 1022
 Tissue Temp: 20.00 (C)
 Serial#: 1054
 Test Freq: 450.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.23 dB
 Adjusted SAR (1W): 4.44 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.85$ S/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7511, Calibrated: 10/24/2019, Frequency: 450 MHz, ConvF(10.3, 10.3, 10.3) @ 450 MHz
 Electronics: DAE4 Sn729, Calibrated: 10/16/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x241x1):

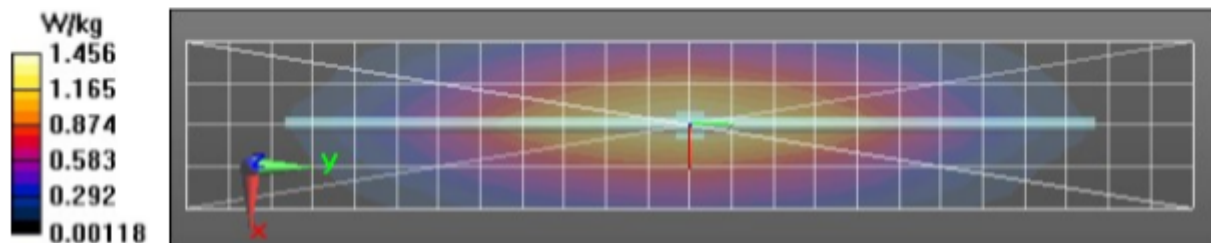
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 42.13 V/m; Power Drift = 0.04 dB
 Fast SAR: SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.814 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 1.46 W/kg

Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 42.13 V/m; Power Drift = 0.04 dB
 Peak SAR (extrapolated) = 1.71 W/kg
 SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.740 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 1.48 W/kg

Below 2 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm
 Maximum value of SAR (measured) = 1.46 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/20/2020 6:35:07 PM

Robot#: DASY5-PG-1 | Run#: IZ-SYSP-835B-200220-13
 Dipole Model# D835V2
 Phantom#: ELI4 1037
 Tissue Temp: 21.9(C)
 Serial#: 4d030
 Test Freq: 835.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.063 dB
 Adjusted SAR (1W): 10.20 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 1.02$ S/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 835 MHz, ConvF(10.23, 10.23, 10.23) @ 835 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x161x1):

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

Reference Value = 61.62 V/m; Power Drift = -0.06 dB

Fast SAR: SAR(1 g) = 2.66 W/kg; SAR(10 g) = 1.74 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 3.59 W/kg

Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

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

Reference Value = 61.62 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 4.09 W/kg

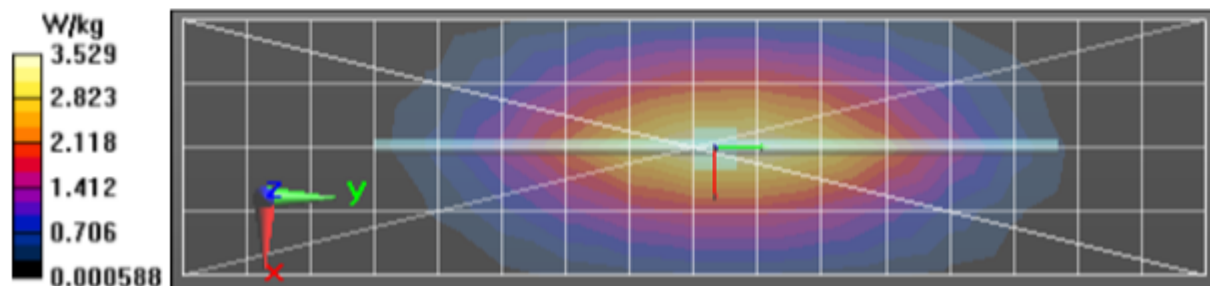
SAR(1 g) = 2.55 W/kg; SAR(10 g) = 1.68 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.59 W/kg

Below 2 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

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

Maximum value of SAR (measured) = 3.57 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/25/2020 9:22:15 PM

Robot#: DASY5-PG-1 | Run#: ZZ-SYSP-835B-200225-11
 Dipole Model# D835V2
 Phantom#: ELI4 1090
 Tissue Temp: 21.4 (C)
 Serial#: 4d030
 Test Freq: 835.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.14 dB
 Adjusted SAR (1W): 9.92 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 1.02$ S/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 835 MHz, ConvF(10.23, 10.23, 10.23) @ 835 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x161x1):

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

Reference Value = 61.18 V/m; Power Drift = -0.15 dB

Fast SAR: SAR(1 g) = 2.6 W/kg; SAR(10 g) = 1.7 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 3.49 W/kg

Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

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

Reference Value = 61.18 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 3.96 W/kg

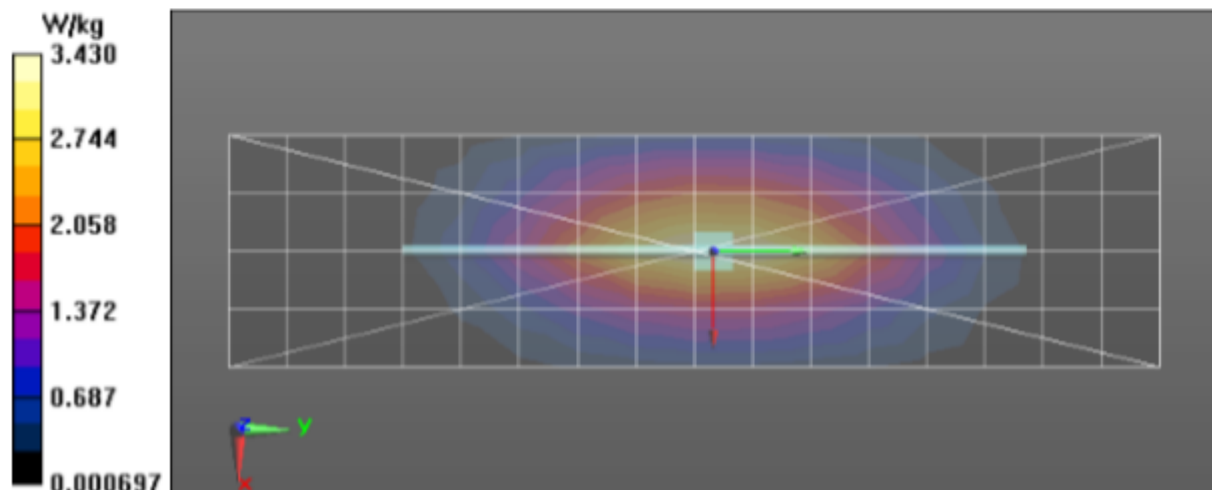
SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.63 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.48 W/kg

Below 2 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

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

Maximum value of SAR (measured) = 3.43 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 4/11/2020 4:11:21 AM

Robot#: DASY5-PG-4 | Run#: ZZ(MA)-SYSP-835B-200411-06
 Dipole Model# D835V2
 Phantom#: ELI4 1090
 Tissue Temp: 20.5 (C)
 Serial#: 4d030
 Test Freq: 835.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.180 dB
 Adjusted SAR (1W): 9.40 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 1$ S/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7511, Calibrated: 10/24/2019, Frequency: 835 MHz, ConvF(9.26, 9.26, 9.26) @ 835 MHz
 Electronics: DAE4 Sn729, Calibrated: 10/16/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x161x1):

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

Reference Value = 57.73 V/m; Power Drift = -0.00 dB

Fast SAR: SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.56 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 3.09 W/kg

Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

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

Reference Value = 57.73 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 3.51 W/kg

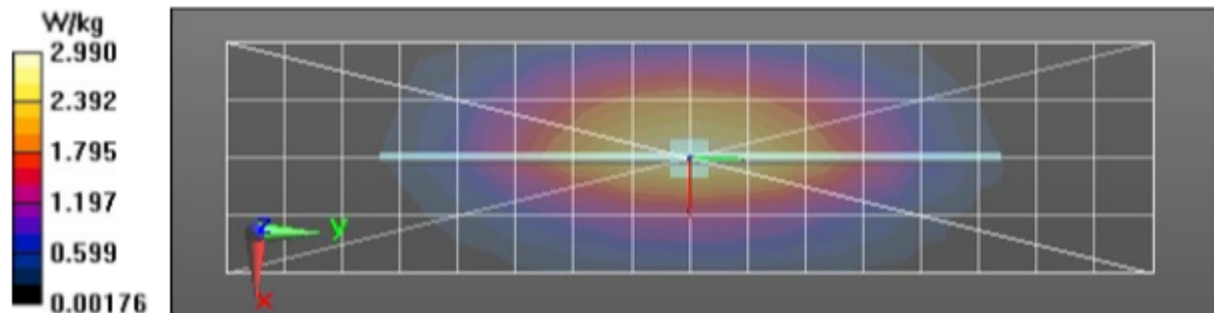
SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.55 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.12 W/kg

Below 2 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

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

Maximum value of SAR (measured) = 3.10 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/20/2020 12:56:38 PM

Robot#: DASY5-PG-1 | Run#: ZZ-SYSP-835H-200220-09
 Dipole Model#: D835V2
 Phantom#: ELI4 1011
 Tissue Temp: 20.3 (C)
 Serial#: 4d030
 Test Freq: 835.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.051 dB
 Adjusted SAR (1W): 9.72 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 42.6$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 835 MHz, ConvF(10.47, 10.47, 10.47) @ 835 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x161x1):

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

Reference Value = 62.29 V/m; Power Drift = -0.01 dB

Fast SAR: SAR(1 g) = 2.5 W/kg; SAR(10 g) = 1.63 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 3.27 W/kg

Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

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

Reference Value = 62.29 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.74 W/kg

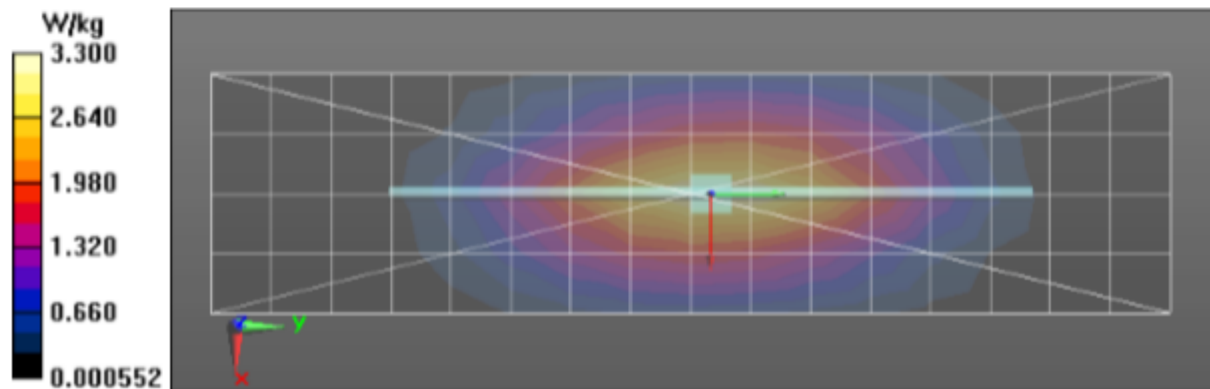
SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.58 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.31 W/kg

Below 2 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

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

Maximum value of SAR (measured) = 3.30 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 4/9/2020 10:31:19 PM

Robot#: DASY5-PG-3 | Run# ZZ-SYSP-2450B-200409-09
 Dipole Model# D2450V2
 Phantom#: ELI4 1028
 Tissue Temp: 21.6 (C)
 Serial#: 781
 Test Freq: 2450.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.077 dB
 Adjusted SAR (1W): 52.00 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ S/m; $\epsilon_r = 51$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7486, Calibrated: 10/24/2019, Frequency: 2450 MHz, ConvF(7.67, 7.67, 7.67) @ 2450 MHz
 Electronics: DAE4 Sn850, Calibrated: 10/16/2019

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

grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 109.8 V/m; Power Drift = -0.06 dB

Fast SAR: SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.15 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 22.4 W/kg

2-3 GHz-Rev.3/System Performance Check/0-Degree Cube (7x7x7)/Cube 0: Measurement

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

Reference Value = 109.8 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 27.4 W/kg

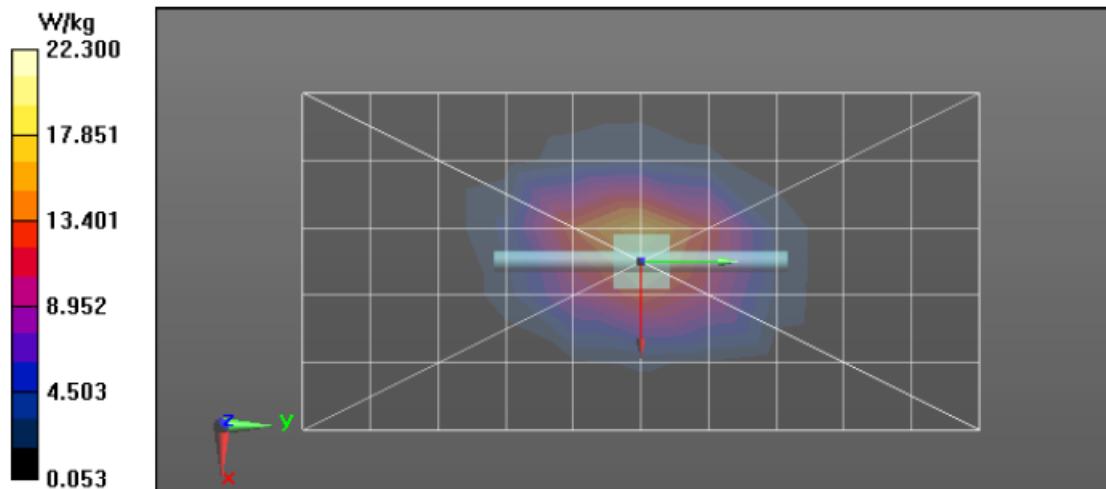
SAR(1 g) = 13 W/kg; SAR(10 g) = 6.04 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 22.3 W/kg

2-3 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:

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

Maximum value of SAR (measured) = 22.3 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 4/9/2020 12:31:45 AM

Robot#: DASY5-PG-3 | Run# ZZ-SYSP-2450H-200409-01
 Dipole Model#: D2450V2
 Phantom#: ELI4 1028
 Tissue Temp: 21.9 (C)
 Serial#: 781
 Test Freq: 2450.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.053 dB
 Adjusted SAR (1W): 48.00 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 2450$ MHz; $\sigma = 1.86$ S/m; $\epsilon_r = 35.3$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7486, Calibrated: 10/24/2019, Frequency: 2450 MHz, ConvF(7.59, 7.59, 7.59) @ 2450 MHz
 Electronics: DAE4 Sn850, Calibrated: 10/16/2019

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

grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 112.8 V/m; Power Drift = -0.10 dB

Fast SAR: SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.19 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 22.3 W/kg

2-3 GHz-Rev.3/System Performance Check/0-Degree Cube (7x7x7)/Cube 0: Measurement

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

Reference Value = 112.8 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 27.6 W/kg

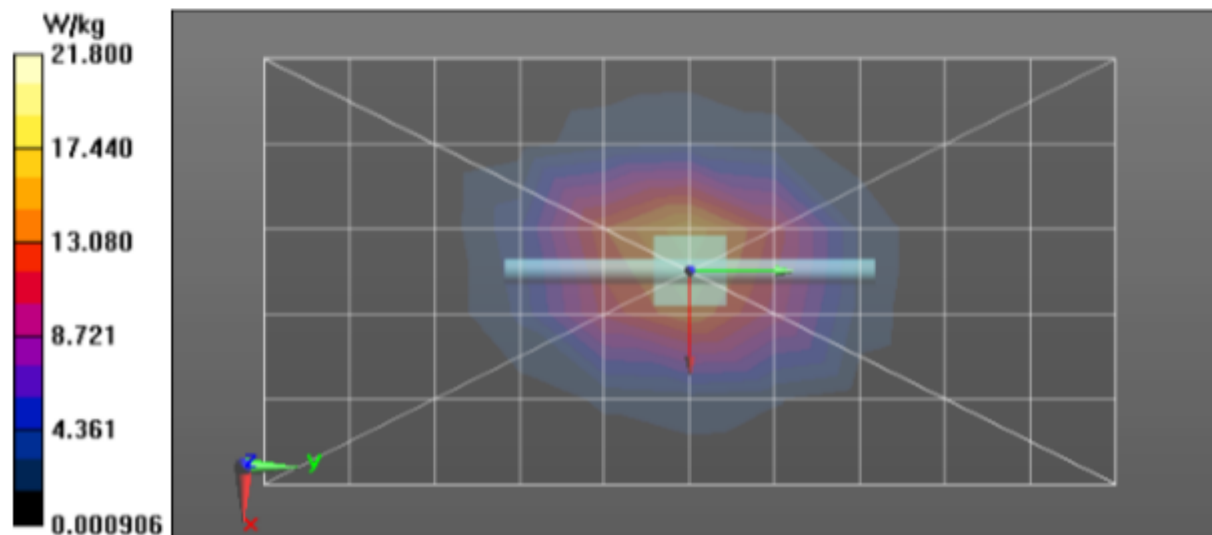
SAR(1 g) = 12 W/kg; SAR(10 g) = 5.43 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 21.7 W/kg

2-3 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:

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

Maximum value of SAR (measured) = 21.8 W/kg



Appendix E

DUT Scans

Assessment for FCC, US at Body (Table 17)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/18/2020 5:44:04 AM

Robot#: DASY5-PG-1 | Run#: IZ-AB-200218-03#
 Model#: PNUW1046A
 Phantom#: ELIS 1150
 Tissue Temp: 21.4 (C)
 Serial#: 673TVX6845
 Antenna: PMAT4001A
 Test Freq: 465.5000 (MHz)
 Battery: PMNN4547A
 Carry Acc: PMLN7955A w/ RLN6486A w/ RLN6488A
 Audio Acc: BT (None)
 Start Power: 5.55 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 466$ MHz; $\sigma = 0.98$ S/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 465.5 MHz, ConvF(12.06, 12.06, 12.06) @ 465.5 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (101x281x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 108.3 V/m; Power Drift = -0.42 dB

Fast SAR: SAR(1 g) = 12.8 W/kg; SAR(10 g) = 9.36 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 15.8 W/kg

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

Reference Value = 108.3 V/m; Power Drift = -0.48 dB

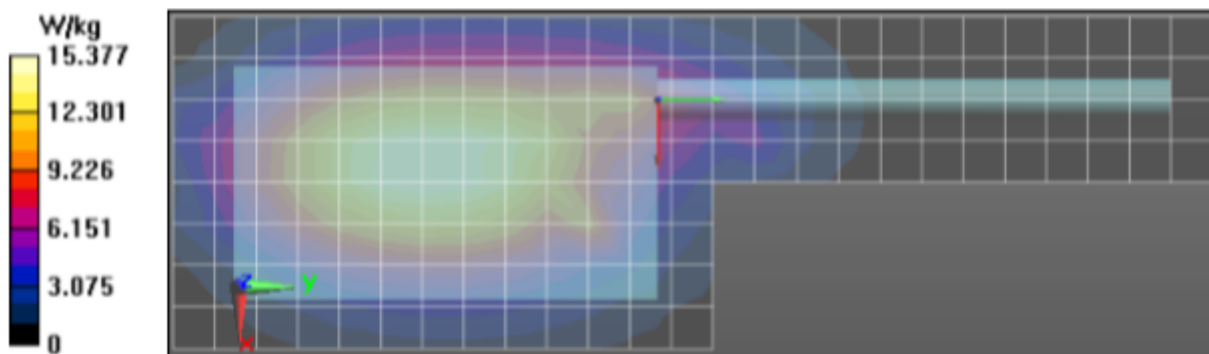
Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 12.1 W/kg; SAR(10 g) = 8.98 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 15.4 W/kg

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

Maximum value of SAR (measured) = 15.3 W/kg



Assessment for FCC, US at Face (Table 17)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/23/2020 9:38:29 PM

Robot#: DASY5-PG-1 | Run#: ZZ-FACE-200223-15
 Model#: PNUW1046A
 Phantom#: ELI4 1109
 Tissue Temp: 20.9 (C)
 Serial#: 673TVX6845
 Antenna: PMAE4065A
 Test Freq: 406.1250 (MHz)
 Battery: PMNN4485A
 Carry Acc: None; Radio @ front
 Audio Acc: None
 Start Power: 5.55 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 406 \text{ MHz}$; $\sigma = 0.87 \text{ S/m}$; $\epsilon_r = 44.1$; $\rho = 1000 \text{ kg/m}^3$
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 406.125 MHz, ConvF(11.84, 11.84, 11.84) @ 406.125 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/Face Scan/1-Area Scan (101x281x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 82.29 V/m; Power Drift = -0.29 dB

Fast SAR: SAR(1 g) = 5.24 W/kg; SAR(10 g) = 3.87 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 6.40 W/kg

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

Reference Value = 82.29 V/m; Power Drift = -0.33 dB

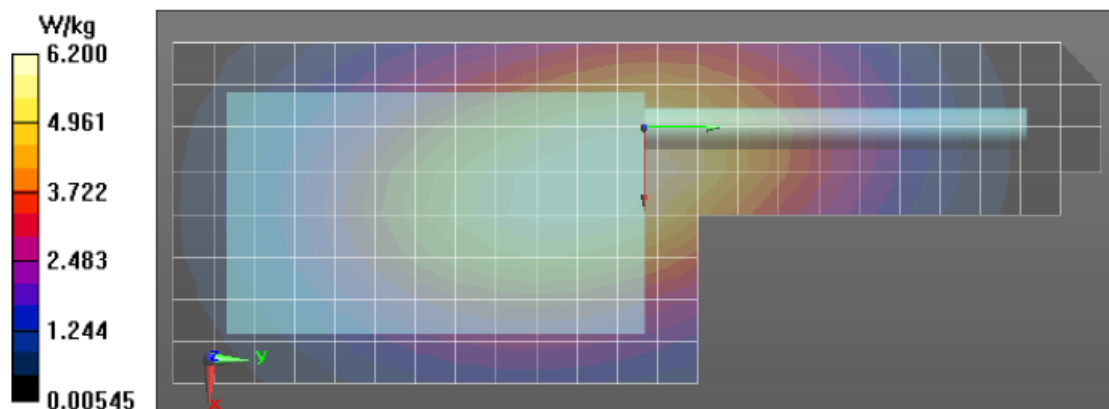
Peak SAR (extrapolated) = 7.09 W/kg

SAR(1 g) = 4.93 W/kg; SAR(10 g) = 3.71 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.24 W/kg

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

Maximum value of SAR (measured) = 6.20 W/kg



Assessments at the Body with Body worn HLN6875A
(Table 18)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/18/2020 12:20:45 PM

Robot#: DASY5-PG-1 | Run#: ZZ-AB-200218-10
 Model#: PNUW1046A
 Phantom#: ELI4 1040
 Tissue Temp: 20.4 (C)
 Serial#: 673TVX6845
 Antenna: PMAT4001A
 Test Freq: 465.5000 (MHz)
 Battery: PMNN4547A
 Carry Acc: HLN6875A
 Audio Acc: BT (None)
 Start Power: 5.56 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 466$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.3$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 465.5 MHz, ConvF(12.06, 12.06, 12.06) @ 465.5 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (101x281x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 88.07 V/m; Power Drift = -0.36 dB

Fast SAR: SAR(1 g) = 8.98 W/kg; SAR(10 g) = 6.53 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 11.1 W/kg

Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (13x15x8)/Cube 0: Measurement grid: dx=2.7mm, dy=2.7mm, dz=1.4mm

Reference Value = 88.07 V/m; Power Drift = -0.72 dB

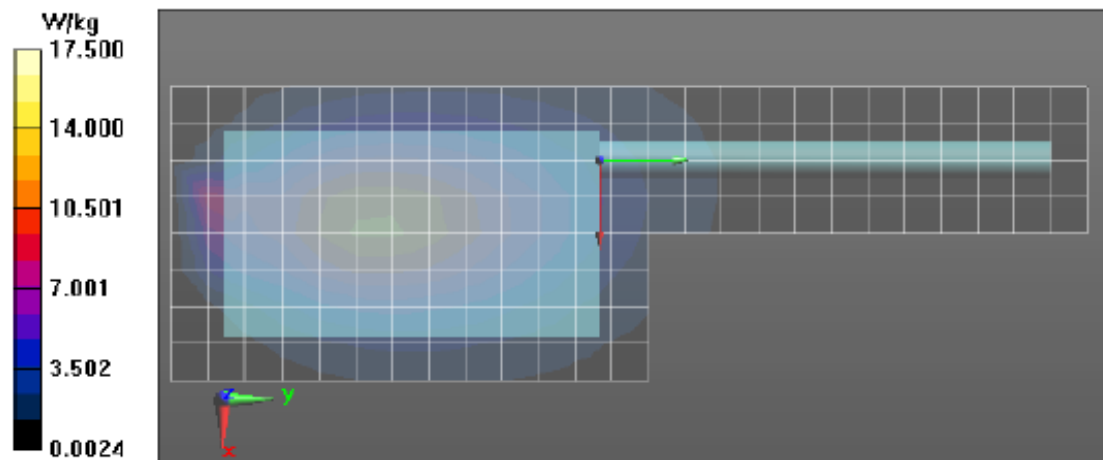
Peak SAR (extrapolated) = 57.4 W/kg

SAR(1 g) = 7.89 W/kg; SAR(10 g) = 3.92 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 17.7 W/kg

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

Maximum value of SAR (measured) = 17.5 W/kg



Assessments at the Body with Body worn NTN8266B (Table 19)

Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/18/2020 1:42:15 PM

Robot#: DASY5-PG-1 | Run#: ZZ-AB-200218-11
Model#: PNUW1046A
Phantom#: ELI4 1040
Tissue Temp: 20.5 (C)
Serial#: 673TVX6845
Antenna: PMAT4001A
Test Freq: 465.5000 (MHz)
Battery: PMNN4547A
Carry Acc: NTN8266B
Audio Acc: BT (None)
Start Power: 5.57 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 466$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.3$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 465.5 MHz, ConvF(12.06, 12.06, 12.06) @ 465.5 MHz
Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (101x281x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 101.5 V/m; Power Drift = -0.31 dB

Fast SAR: SAR(1 g) = 12.6 W/kg; SAR(10 g) = 8.62 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 16.2 W/kg

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

Reference Value = 101.5 V/m; Power Drift = -0.34 dB

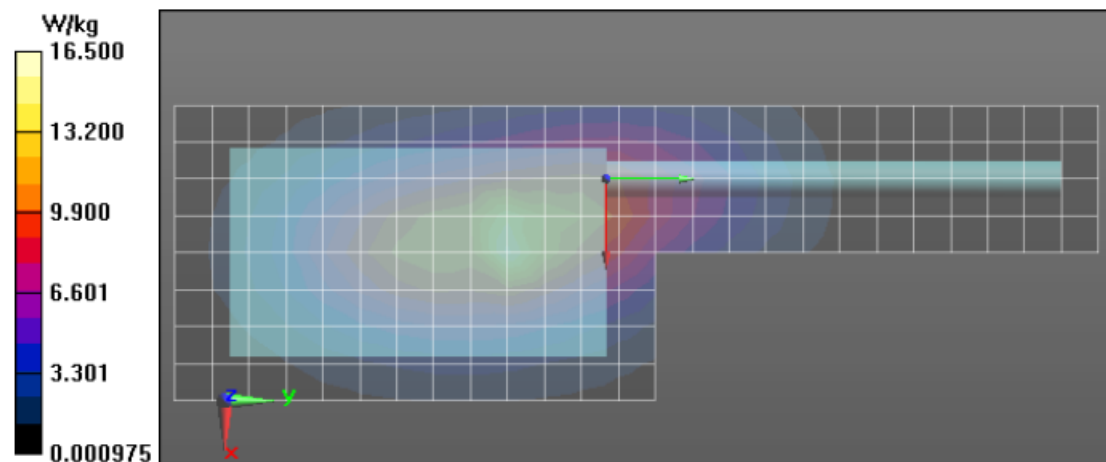
Peak SAR (extrapolated) = 19.8 W/kg

SAR(1 g) = 11.7 W/kg; SAR(10 g) = 7.88 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 16.3 W/kg

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

Maximum value of SAR (measured) = 16.5 W/kg



Assessment for ISED, Canada at Body (Table 20)

Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/18/2020 5:44:04 AM

Robot#: DASY5-PG-1 | Run#: IZ-AB-200218-03#
 Model#: PNUW1046A
 Phantom#: ELIS 1150
 Tissue Temp: 21.4 (C)
 Serial#: 673TVX6845
 Antenna: PMAT4001A
 Test Freq: 465.5000 (MHz)
 Battery: PMNN4547A
 Carry Acc: PMLN7955A w/ RLN6486A w/ RLN6488A
 Audio Acc: BT (None)
 Start Power: 5.55 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 466$ MHz; $\sigma = 0.98$ S/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 465.5 MHz, ConvF(12.06, 12.06, 12.06) @ 465.5 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (101x281x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 108.3 V/m; Power Drift = -0.42 dB

Fast SAR: SAR(1 g) = 12.8 W/kg; SAR(10 g) = 9.36 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 15.8 W/kg

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

Reference Value = 108.3 V/m; Power Drift = -0.48 dB

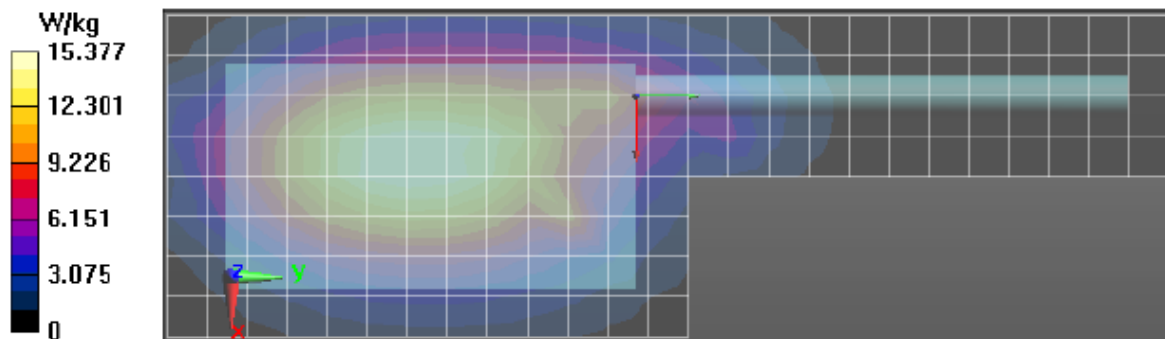
Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 12.1 W/kg; SAR(10 g) = 8.98 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 15.4 W/kg

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

Maximum value of SAR (measured) = 15.3 W/kg



Assessment for ISED, Canada at Face (Table 20)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/24/2020 10:36:55 AM

Robot#: DASY5-PG-1 | Run#: BL-FACE-200224-01#
 Model#: PNUW1046A
 Phantom#: ELI4 1109
 Tissue Temp: 21.5 (C)
 Serial#: 673TVX6845
 Antenna: KT000026A01
 Test Freq: 450.0000 (MHz)
 Battery: NNTN8930A
 Carry Acc: None; Radio @ Front
 Audio Acc: None
 Start Power: 5.62 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 43.1$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 450 MHz, ConvF(11.84, 11.84, 11.84) @ 450 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/Face Scan/1-Area Scan (101x281x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 76.92 V/m; Power Drift = -0.35 dB

Fast SAR: SAR(1 g) = 4.81 W/kg; SAR(10 g) = 3.54 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 5.90 W/kg

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

Reference Value = 76.92 V/m; Power Drift = -0.40 dB

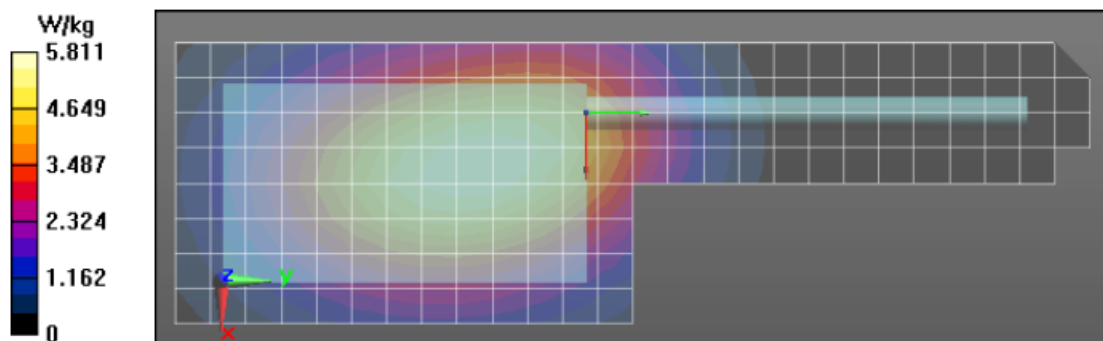
Peak SAR (extrapolated) = 6.40 W/kg

SAR(1 g) = 4.47 W/kg; SAR(10 g) = 3.35 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.63 W/kg

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

Maximum value of SAR (measured) = 5.60 W/kg



Assessments at the Body for ISED, Canada with Body worn HLN6875A (Table 21)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/18/2020 12:20:45 PM

Robot#: DASY5-PG-1 | Run#: ZZ-AB-200218-10
 Model#: PNUW1046A
 Phantom#: ELI4 1040
 Tissue Temp: 20.4 (C)
 Serial#: 673TVX6845
 Antenna: PMAT4001A
 Test Freq: 465.5000 (MHz)
 Battery: PMNN4547A
 Carry Acc: HLN6875A
 Audio Acc: BT (None)
 Start Power: 5.56 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 466$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.3$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 465.5 MHz, ConvF(12.06, 12.06, 12.06) @ 465.5 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (101x281x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 88.07 V/m; Power Drift = -0.36 dB

Fast SAR: SAR(1 g) = 8.98 W/kg; SAR(10 g) = 6.53 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 11.1 W/kg

Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (13x15x8)/Cube 0: Measurement grid: dx=2.7mm, dy=2.7mm, dz=1.4mm

Reference Value = 88.07 V/m; Power Drift = -0.72 dB

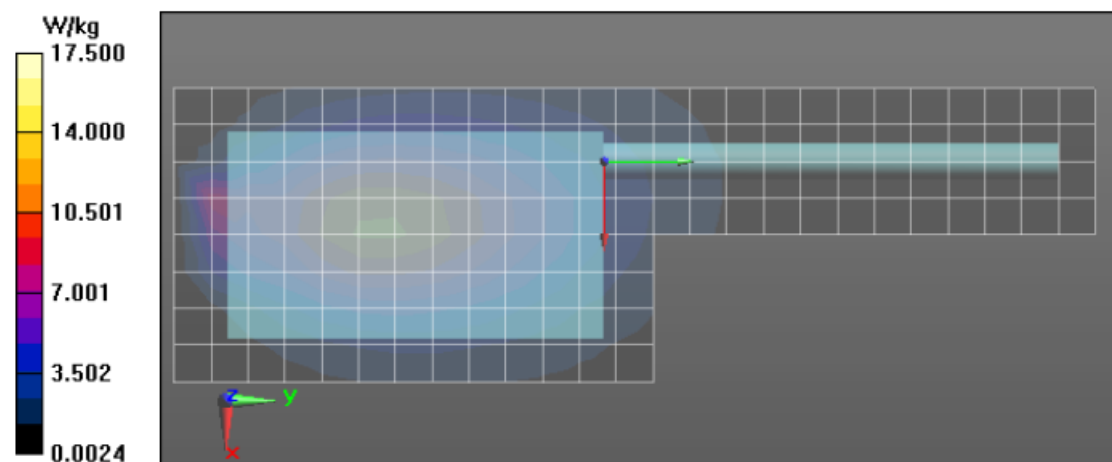
Peak SAR (extrapolated) = 57.4 W/kg

SAR(1 g) = 7.89 W/kg; SAR(10 g) = 3.92 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 17.7 W/kg

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

Maximum value of SAR (measured) = 17.5 W/kg



Assessments at the Body for ISED, Canada with Body worn NTN8266B (Table 22)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/18/2020 1:42:15 PM

Robot#: DASY5-PG-1 | Run#: ZZ-AB-200218-11
 Model#: PNUW1046A
 Phantom#: ELI4 1040
 Tissue Temp: 20.5 (C)
 Serial#: 673TVX6845
 Antenna: PMAT4001A
 Test Freq: 465.5000 (MHz)
 Battery: PMNN4547A
 Carry Acc: NTN8266B
 Audio Acc: BT (None)
 Start Power: 5.57 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 466 \text{ MHz}$; $\sigma = 0.96 \text{ S/m}$; $\epsilon_r = 55.3$; $\rho = 1000 \text{ kg/m}^3$
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 465.5 MHz, ConvF(12.06, 12.06, 12.06) @ 465.5 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (101x281x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 101.5 V/m; Power Drift = -0.31 dB

Fast SAR: SAR(1 g) = 12.6 W/kg; SAR(10 g) = 8.62 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 16.2 W/kg

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

Reference Value = 101.5 V/m; Power Drift = -0.34 dB

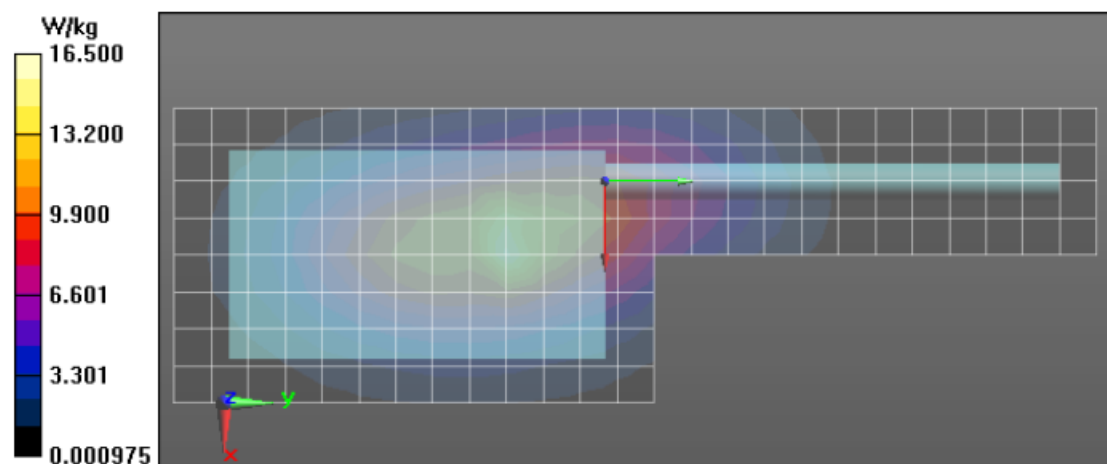
Peak SAR (extrapolated) = 19.8 W/kg

SAR(1 g) = 11.7 W/kg; SAR(10 g) = 7.88 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 16.3 W/kg

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

Maximum value of SAR (measured) = 16.5 W/kg



Assessment for ISED Notice at Body (Table 23)

Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/18/2020 5:44:04 AM

Robot#: DASY5-PG-1 | Run#: IZ-AB-200218-03#
 Model#: PNUW1046A
 Phantom#: ELIS 1150
 Tissue Temp: 21.4 (C)
 Serial#: 673TVX6845
 Antenna: PMAT4001A
 Test Freq: 465.5000 (MHz)
 Battery: PMNN4547A
 Carry Acc: PMLN7955A w/ RLN6486A w/ RLN6488A
 Audio Acc: BT (None)
 Start Power: 5.55 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 466$ MHz; $\sigma = 0.98$ S/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 11/6/2019, Frequency: 465.5 MHz, ConvF(12.06, 12.06, 12.06) @ 465.5 MHz
 Electronics: DAE4 Sn1488, Calibrated: 7/23/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (101x281x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 108.3 V/m; Power Drift = -0.42 dB

Fast SAR: SAR(1 g) = 12.8 W/kg; SAR(10 g) = 9.36 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 15.8 W/kg

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

Reference Value = 108.3 V/m; Power Drift = -0.48 dB

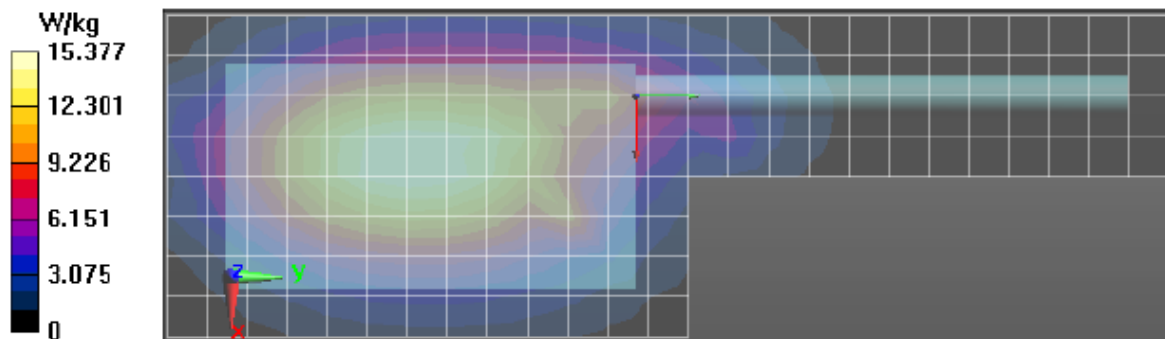
Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 12.1 W/kg; SAR(10 g) = 8.98 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 15.4 W/kg

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

Maximum value of SAR (measured) = 15.3 W/kg



Assessment for ISED Notice at Face (Table 23)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 4/10/2020 3:58:44 AM

Robot#: DASY5-PG-4 | Run#: ZZ(MA)-FACE-200410-04#
 Model#: H91TGD9PW4AN
 Phantom#: ELI4 1022
 Tissue Temp: 20.2 (C)
 Serial#: 673TVX6845
 Antenna: KT000026A01
 Test Freq: 465.5000 (MHz)
 Battery: NNTN8930A
 Carry Acc: None; Radio @ Front
 Audio Acc: None
 Start Power: 5.45 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 466$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7511, Calibrated: 10/24/2019, Frequency: 465.5 MHz, ConvF(10.3, 10.3, 10.3) @ 465.5 MHz
 Electronics: DAE4 Sn729, Calibrated: 10/16/2019

Below 2 GHz-Rev.3/Face Scan/1-Area Scan (101x271x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 88.71 V/m; Power Drift = -0.94 dB

Fast SAR: SAR(1 g) = 5.61 W/kg; SAR(10 g) = 4.11 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 6.89 W/kg

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

Reference Value = 88.71 V/m; Power Drift = -1.01 dB

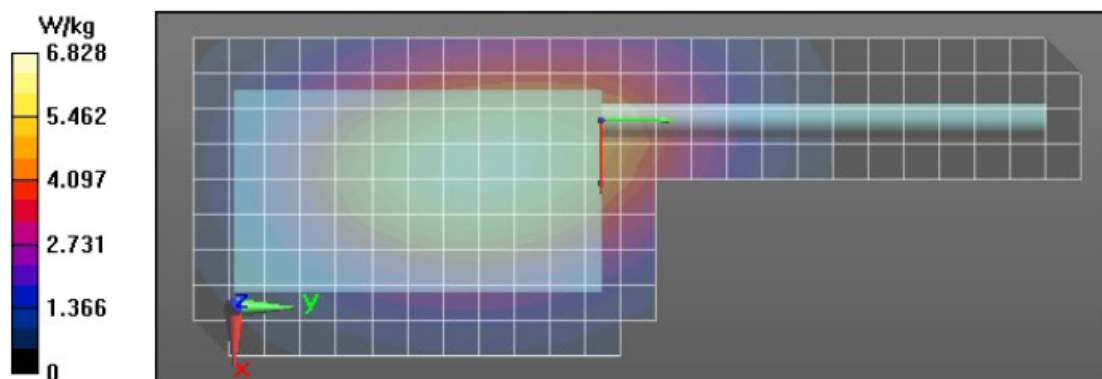
Peak SAR (extrapolated) = 6.85 W/kg

SAR(1 g) = 4.94 W/kg; SAR(10 g) = 3.74 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.13 W/kg

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

Maximum value of SAR (measured) = 6.10 W/kg



APPENDIX F

Shortened Scan of Highest SAR configuration

Motorola Solutions, Inc. EME Laboratory

Date/Time: 4/10/2020 1:06:10 PM

Robot#: DASY5-PG-4 | Run#: NZ-AB-200410-11
 Model#: H91TGD9PW4AN (Tanapa#PNUW1046A / KNUW1046A / ENUW1046A)
 Phantom#: ELIS 1150
 Tissue Temp: 20.2 (C)
 Serial#: 673TVX6845
 Antenna: PMAT4001A
 Test Freq: 465.5000 (MHz)
 Battery: PMNN4547A
 Carry Acc: PMLN7955A w/ RLN6486A w/ RLN6488A
 Audio Acc: BT (None)
 Start Power: 5.54 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 466$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7511, Calibrated: 10/24/2019, Frequency: 465.5 MHz, ConvF(10.59, 10.59, 10.59) @ 465.5 MHz
 Electronics: DAE4 Sn729, Calibrated: 10/16/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (101x291x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 108.1 V/m; Power Drift = -0.30 dB

Fast SAR: SAR(1 g) = 12.4 W/kg; SAR(10 g) = 9.06 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 15.2 W/kg

Below 2 GHz-Rev.3/Ab Scan/2-Volume 2D Scan (41x41x1): Interpolated grid: dx=0.7500 mm, dy=0.7500 mm, dz=1.000 mm

Reference Value = 108.1 V/m; Power Drift = -0.31 dB

Fast SAR: SAR(1 g) = 12.3 W/kg; SAR(10 g) = 9.06 W/kg (SAR corrected for target medium)

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

Reference Value = 126.5 V/m; Power Drift = -0.07 dB

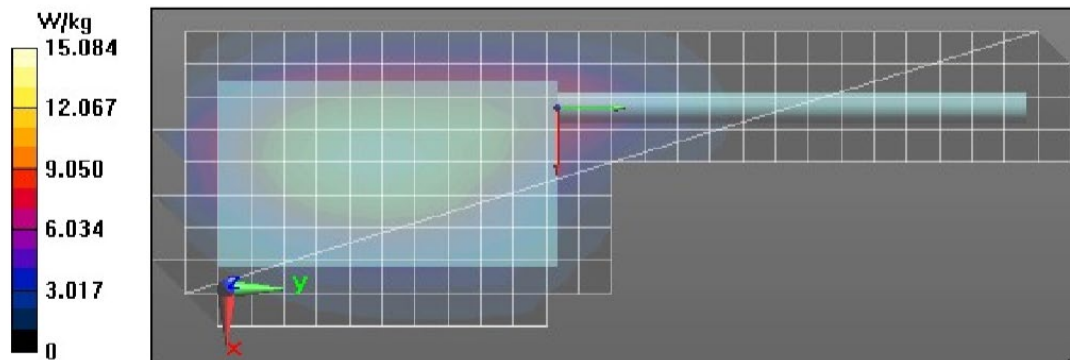
Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 12.3 W/kg; SAR(10 g) = 9.33 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 15.1 W/kg

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

Maximum value of SAR (measured) = 14.6 W/kg



Shortened scan reflects highest SAR producing configuration and is compared to the full scan.

Scan Description	Referenced Table	Test Time (min.)	SAR 1g (W/kg)
Shorten scan (zoom)	24	8	6.43
Full scan (area & zoom)	23	40	6.94

APPENDIX G

DUT Test Position Photos

1.0 Highest SAR Test Position per location**1.1 Body**

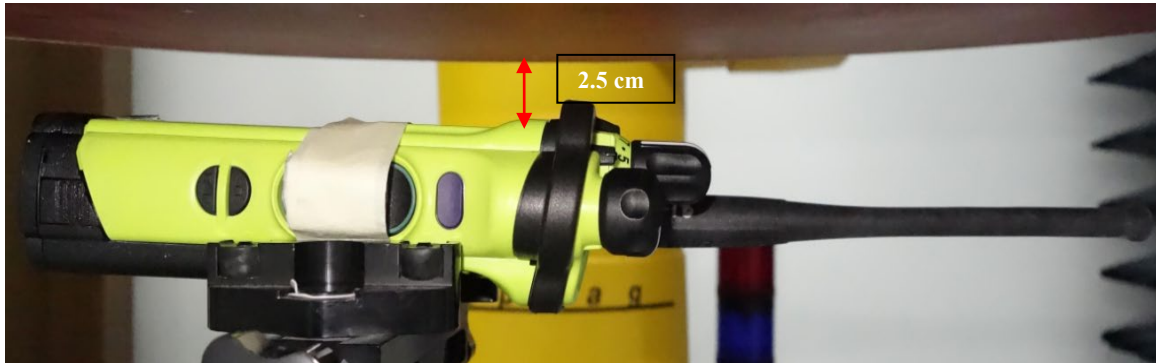
DUT with antenna PMAT4001A, battery PMNN4547A and body worn PMLN7955A with RLN6486A with RLN6488A are positioned against the phantom without any audio accessory attached.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAT4001A	0	35	60

1.2 Face

Front of DUT with antenna KT000026A01 and new offered battery NNTN8930A separated 2.5cm from the phantom without an audio accessory attached.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
KT000026A01	30	42	47

APPENDIX H

DUT and Body Worn Photo



Front view



Side view



Back view

APX 8000HXE Portable Radio



Front view



Side view



Back view



HLN6875A Body Worn attached to the APX 8000HXE portable radio

HLN6875A: Belt Clip 3 Inch



Front view



Side view



Back view



NTN8266B Body Worn attached to the APX 8000HXE portable radio

NTN8266B: Belt Clip Kit 2.5

For photos of other previously approved accessories please refer to previous filing report.