



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: 08/04/2021

Report Revision: A

Responsible Engineer: Puteri Alifah Ilyana Binti Nor Rahim (EME Engineer)
Report Author: Puteri Alifah Ilyana Binti Nor Rahim (EME Engineer)
Date/s Tested: 6/22/2021-6/23/2021, 6/25/2021 - 6/28/2021, 7/15/2021-7/16/2021, 8/4/2021
Manufacturer: Motorola Solutions Inc.
DUT Description: Handheld Portable – MOTOTRBO ION 400-512 MHz 4W LTE CBRS GNSS BT WiFi
Test TX mode(s): FM; LTE; WLAN
Max. Power output: Refer to Table 3
Nominal Power: Refer to Table 3
Tx Frequency Bands: Refer to Table 3
Signaling type: FM, TDMA, FHSS, DSSS and OFDM
Model(s) Tested: AAH90ZDU9RH1AN (PMUE5674B)
Model(s) Certified: AAH90ZDU9RH1AN (PMUE5674B)
Serial Number(s): 734TXK0049, 734TXK0077
Classification: Occupational/Controlled
Applicant Name: Motorola Solutions Inc.
Applicant Address: 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322
FCC ID: AZ489FT7133; LMR 406.125-512 MHz; LTE; WLAN 2.4 GHz; WLAN 5GHz, Bluetooth and Bluetooth LE
 This report contains results that are immaterial for FCC equipment approval, which are clearly identified.
IC: 109U-89FT7133
 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 1.6 W/kg averaged over 1 gram per the requirements of FCC 47 CFR § 2.1093.

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.

Saw Sun Hock
(Approved Signatory)
Approval Date: 16/08/2021

Appendix D

System Verification Check Scans

Motorola Solutions, EME Laboratory

2021-06-22, 05:55

System Performance Check Report

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]
D450V8 - SN1054	450.0	HSL	26.58218	-46.7	-47.1

Exposure Conditions

Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	15		, 0--	450.0, 0	11.48	0.88	41.7

Hardware Setup

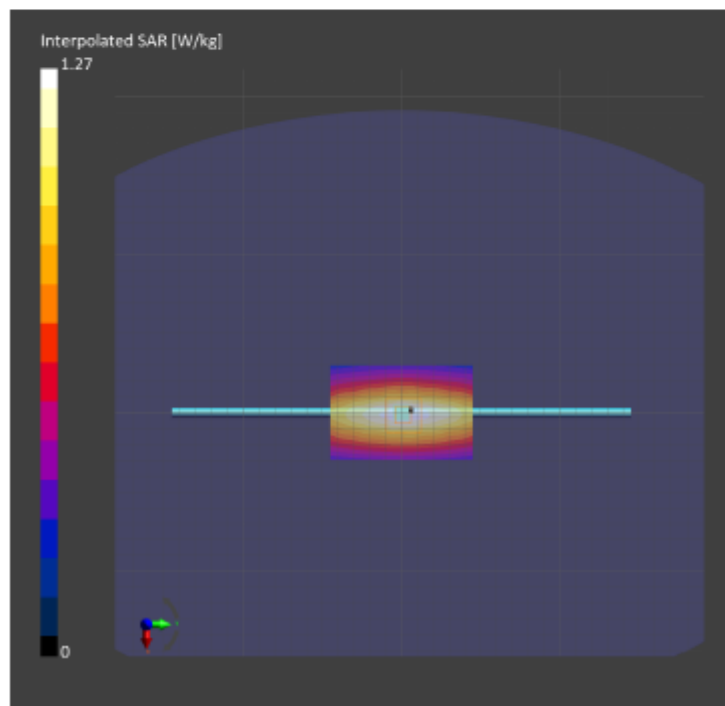
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1016	HSL450 , 2021-Jun-22	EX8DV4 - SN7594, 2020-12-10	DAE4 Sn1488, 2021-04-07

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 90.0	80.0 x 80.0 x 80.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	8.0	1.4
Graded Grid	No	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2021-06-22, 05:55	2021-06-22, 06:01
psSAR1g [W/Kg]	1.10	1.10
psSAR10g [W/Kg]	0.761	0.729
Power Drift [dB]	0.01	0.01
TSL Correction	Positive / Negative	Positive / Negative



Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/25/2021 6:18:25 PM

Robot#: DASY5-PG-3 | Run#: MA(BAD)-SYSP-750H-210625-09

Dipole Model#: D750V3

Phantom#: ELI4 1037

Tissue Temp: 21.5 (C)

Serial#: 1142

Test Freq: 750.0000 (MHz)

Start Power: 250 (mW)

Rotation (1D): 0.120 dB

Adjusted SAR (1W): 8.84 mW/g (1g)

Comments:

Communication System Band: Dipole 750, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used: $f = 750$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.9$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7533, Calibrated: 4/19/2021, Frequency: 750 MHz, ConvF(10.83, 10.83, 10.83) @ 750 MHz

Electronics: DAE3 Sn374, Calibrated: 4/8/2021

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x141x1):Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 60.45 V/m; Power Drift = -0.06 dB

Fast SAR: SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.52 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.97 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 = 60.45 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.38 W/kg

SAR(1 g) = 2.21 W/kg; SAR(10 g) = 1.45 W/kg (SAR corrected for target medium)

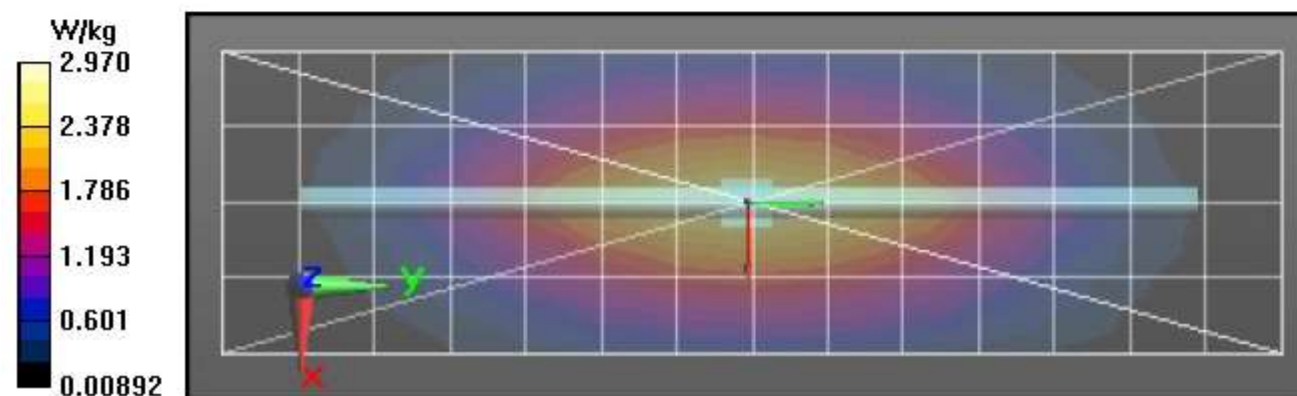
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 65.3%

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

Below 2 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurementgrid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

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



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Date/Time: 6/26/2021 5:25:04 AM

Robot#: DASY5-PG-3 | Run#: AMN-SYSP-835H-210625-07#
 Dipole Model#: D835V2
 Phantom#: ELI4 1011
 Tissue Temp: 21.4 (C)
 Serial#: 4d030
 Test Freq: 835.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.075 dB
 Adjusted SAR (1W): 9.56 mW/g (1g)

Comments:

Communication System Band: Dipole 835, Communication System UID: 0, Duty Cycle: 1:1,
 Medium parameters used: $f = 835$ MHz, $\sigma = 0.94$ S/m, $\epsilon_r = 41.2$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 4/19/2021, Frequency: 835 MHz, ConvF(10.5, 10.5, 10.5) @ 835 MHz
 Electronics: DAE3 Sn374, Calibrated: 4/8/2021

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x141x1):

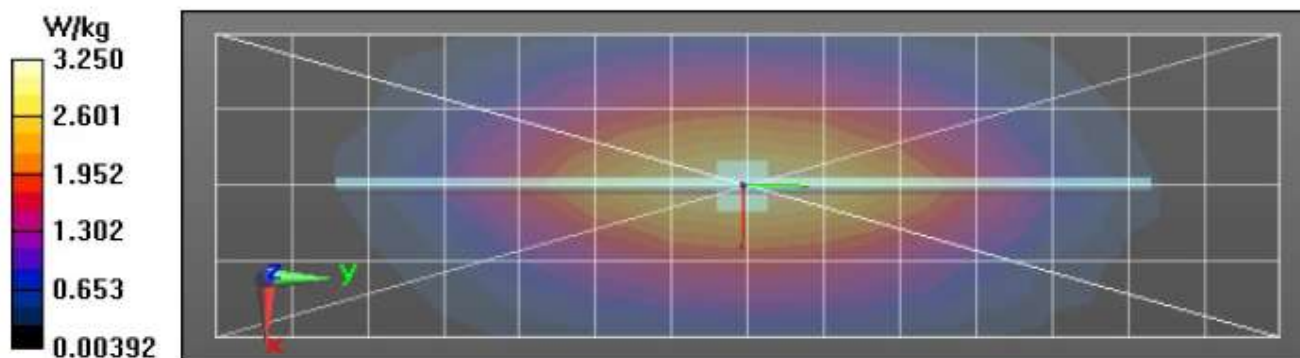
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 61.85 V/m; Power Drift = -0.03 dB
 Fast SAR: SAR(1 g) = 2.45 W/kg; SAR(10 g) = 1.61 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 3.25 W/kg

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 = 61.85 V/m; Power Drift = -0.03 dB
 Peak SAR (extrapolated) = 3.66 W/kg
 SAR(1 g) = 2.39 W/kg; SAR(10 g) = 1.56 W/kg (SAR corrected for target medium)
 Smallest distance from peaks to all points 3 dB below = 19.2 mm
 Ratio of SAR at M2 to SAR at M1 = 66.3%
 Maximum value of SAR (measured) = 3.27 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) = 3.28 W/kg



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Date/Time: 6/26/2021 10:56:41 PM

Robot#: DASY5-PG-3 | Run#: AMN-SYSP-1800H-210626-19
 Dipole Model#: D1800V2
 Phantom#: ELI4 1109
 Tissue Temp: 20.1 (C)
 Serial#: 278
 Test Freq: 1800.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.16 dB
 Adjusted SAR (1W): 39.44 mW/g (1g)

Comments:

Communication System Band: Dipole 1800, Communication System UID: 0, Duty Cycle: 1:1,
 Medium parameters used: $f = 1800$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 4/19/2021, Frequency: 1800 MHz, ConvF(8.5, 8.5, 8.5) @ 1800 MHz
 Electronics: DAE3 Sn374, Calibrated: 4/8/2021

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x81x1):

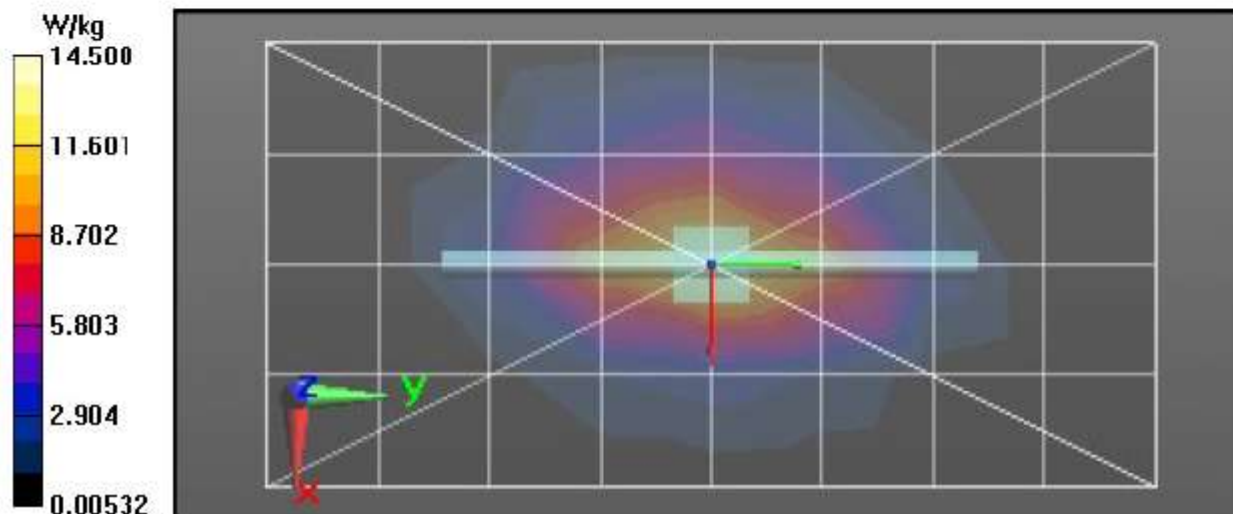
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 107.9 V/m; Power Drift = 0.02 dB
 Fast SAR: SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.31 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 15.1 W/kg

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 = 107.9 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 17.9 W/kg
 SAR(1 g) = 9.86 W/kg; SAR(10 g) = 5.15 W/kg (SAR corrected for target medium)
 Smallest distance from peaks to all points 3 dB below = 10.5 mm
 Ratio of SAR at M2 to SAR at M1 = 54.5%
 Maximum value of SAR (measured) = 15.1 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) = 15.2 W/kg



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Date/Time: 6/26/2021 5:39:02 PM

Robot#: DASY5-PG-3 | Run#: MA(BAD)-SYSP-1900H-210626-16
 Dipole Model#: D1900V2
 Phantom#: ELI4 1109
 Tissue Temp: 20.7 (C)
 Serial#: 5d065
 Test Freq: 1900.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.100 dB
 Adjusted SAR (1W): 40.80 mW/g (1g)

Comments:

Communication System Band: Dipole 1900, Communication System UID: 0, Duty Cycle: 1:1,
 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 4/19/2021, Frequency: 1900 MHz, ConvF(8.39, 8.39, 8.39) @ 1900 MHz
 Electronics: DAE3 Sn374, Calibrated: 4/8/2021

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x81x1):

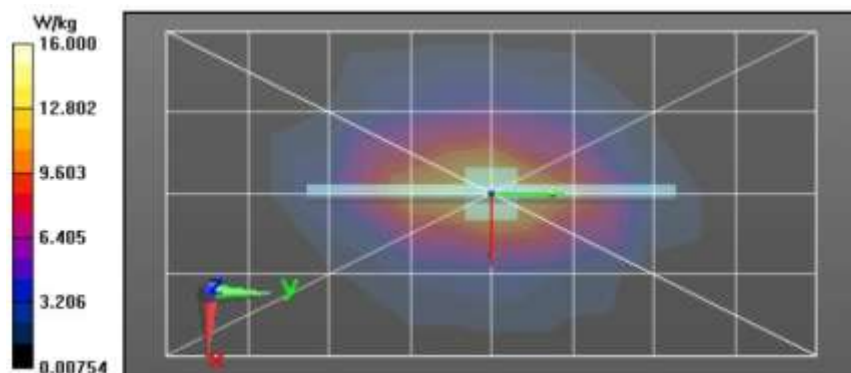
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 109.9 V/m; Power Drift = -0.05 dB
 Fast SAR: SAR(1 g) = 10.8 W/kg; SAR(10 g) = 5.48 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 16.5 W/kg

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 = 109.9 V/m; Power Drift = -0.05 dB
 Peak SAR (extrapolated) = 19.8 W/kg
 SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.3 W/kg (SAR corrected for target medium)
 Smallest distance from peaks to all points 3 dB below = 10.5 mm
 Ratio of SAR at M2 to SAR at M1 = 52.5%
 Maximum value of SAR (measured) = 16.2 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) = 16.4 W/kg



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Date/Time: 6/27/2021 9:30:06 PM

Robot#: DASY5-PG-3 | Run#: AR-SYSP-1900H-210627-04.da52
 Dipole Model# D1900V2
 Phantom#: ELI4 1109
 Tissue Temp: 21.0 (C)
 Serial#: 5d065
 Test Freq: 1900.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.043 dB
 Adjusted SAR (1W): 40.40 mW/g (1g)

Comments:

Communication System Band: Dipole 1900, Communication System UID: 0, Duty Cycle: 1:1,
 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.46$ S/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 4/19/2021, Frequency: 1900 MHz, ConvF(8.39, 8.39, 8.39) @ 1900 MHz
 Electronics: DAE3 Sn374, Calibrated: 4/8/2021

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x81x1):

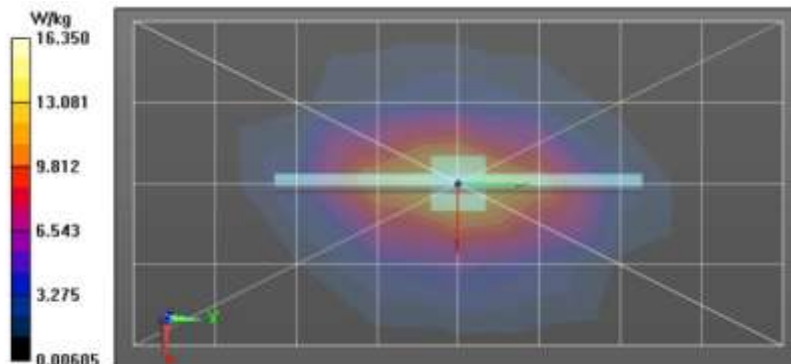
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 109.6 V/m; Power Drift = -0.05 dB
 Fast SAR: SAR(1 g) = 10.8 W/kg; SAR(10 g) = 5.53 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 16.6 W/kg

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 = 109.6 V/m; Power Drift = -0.05 dB
 Peak SAR (extrapolated) = 19.8 W/kg
 SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.25 W/kg (SAR corrected for target medium)
 Smallest distance from peaks to all points 3 dB below = 10.5 mm
 Ratio of SAR at M2 to SAR at M1 = 52.4%
 Maximum value of SAR (measured) = 16.2 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) = 16.4 W/kg



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Date/Time: 6/27/2021 10:58:32 PM

Robot#: DASY5-PG-3 | Run#: AR-SYSP-2300H-210627-06
 Dipole Model#: D2300V2
 Phantom#: ELI4 1028
 Tissue Temp: 20.8 (C)
 Serial#: 1007
 Test Freq: 2300.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.044 dB
 Adjusted SAR (1W): 50.80 mW/g (1g)

Comments:

Communication System Band: Dipole 2300, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used: $f = 2300$ MHz; $\sigma = 1.74$ S/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7533, Calibrated: 4/19/2021, Frequency: 2300 MHz, ConvF(8.08, 8.08, 8.08) @ 2300 MHz

Electronics: DAE3 Sn374, Calibrated: 4/8/2021

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 = 115.9 V/m; Power Drift = -0.07 dB

Fast SAR: SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.55 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 22.1 W/kg

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

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

Reference Value = 115.9 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 27.3 W/kg

SAR(1 g) = 12.7 W/kg; SAR(10 g) = 6 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 9.1 mm

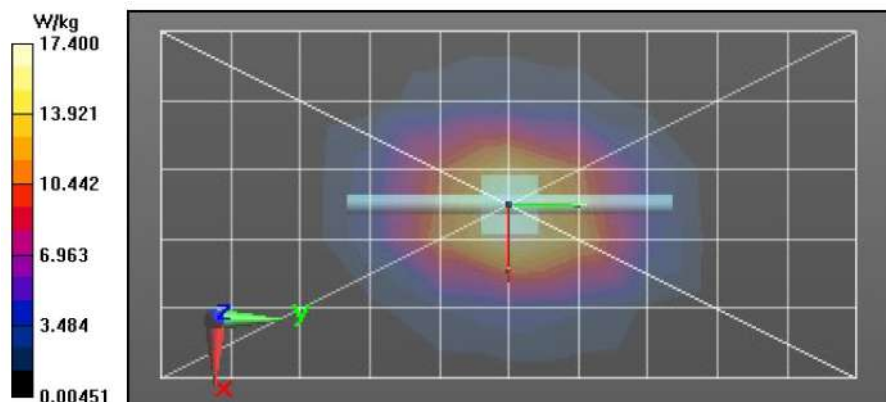
Ratio of SAR at M2 to SAR at M1 = 47.6%

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

2-3 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) = 21.9 W/kg



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2021-06-23, 01:34

System Performance Check Report

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]
D2450V2 - SN708	2450.0	HSL	28.9794	-0.2	-1.0

Exposure Conditions

Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	10		, 0--	2450.0, 0	7.68	1.87	87.0

Hardware Setup

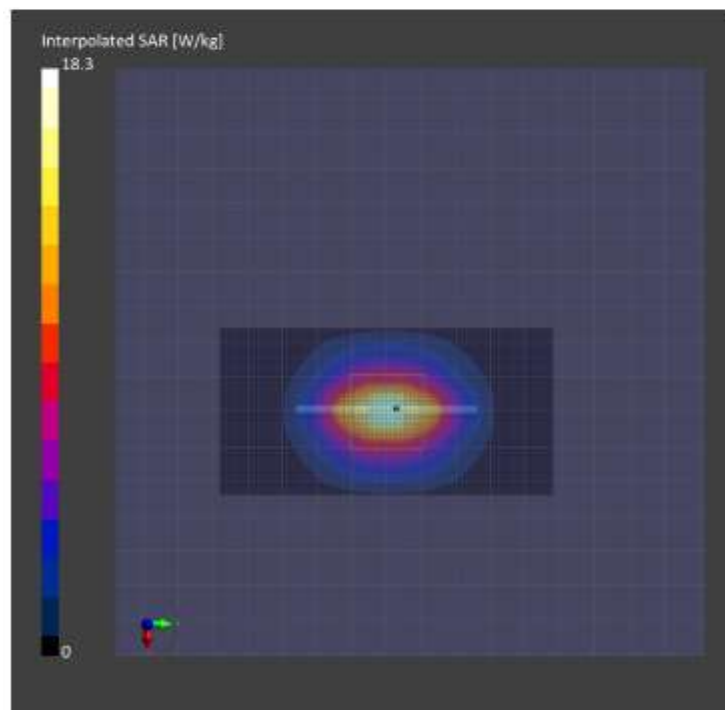
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1016	HSL2450, 2021-Jun-28	EX8DV4 - SN7594, 2020-12-10	DAE4 Sn1488, 2021-04-07

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 96.0	80.0 x 80.0 x 80.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	8.0	1.4
Graded Grid	No	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2021-06-28, 01:34	2021-06-28, 01:41
psSAR1g [W/Kg]	18.4	18.2
psSAR10g [W/Kg]	6.27	6.09
Power Drift [dB]	0.01	-0.00
TSL Correction	Positive / Negative	Positive / Negative



Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/28/2021 12:18:53 AM

Robot#: DASY5-PG-3 | Run#: AR-SYSP-2600H-210628-01#

Dipole Model#: D2600V2

Phantom#: ELI4 1028

Tissue Temp: 20.8 (C)

Serial#: 1002

Test Freq: 2600.0000 (MHz)

Start Power: 250 (mW)

Rotation (1D): 0.054 dB

Adjusted SAR (1W): 57.20 mW/g (1g)

Comments:

Communication System Band: Dipole 2600, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.05$ S/m; $\epsilon_r = 37.1$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7533, Calibrated: 4/19/2021, Frequency: 2600 MHz, ConvF(7.74, 7.74, 7.74) @ 2600 MHz

Electronics: DAE3 Sn374, Calibrated: 4/8/2021

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 = 116.7 V/m; Power Drift = -0.09 dB

Fast SAR: SAR(1 g) = 15.4 W/kg; SAR(10 g) = 7.02 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 27.0 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 = 116.7 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 34.1 W/kg

SAR(1 g) = 14.3 W/kg; SAR(10 g) = 6.25 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 9.1 mm

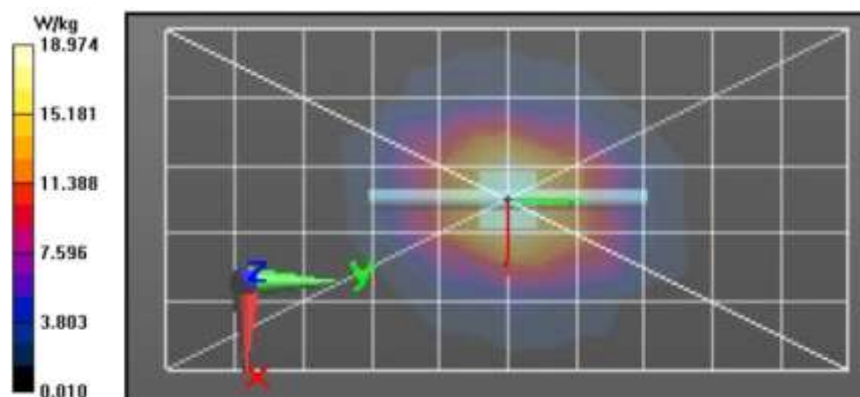
Ratio of SAR at M2 to SAR at M1 = 42.7%

Maximum value of SAR (measured) = 26.4 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) = 26.6 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/4/2021 1:07:17 PM

Robot#: DASY5-PG-3 | Run#: AMN-SYSP-2600H-210804-09
 Dipole Model# D2600V2
 Phantom#: ELI4 1028
 Tissue Temp: 20.9 (C)
 Serial#: 1002
 Test Freq: 2600 (MHz)
 Start Power: 31.6 (mW)
 Rotation (1D): 0.15 dB
 Adjusted SAR (1W): 57.60 mW/g (1g)

Comments:

Communication System Band: Dipole 2600, Communication System UID: 0, Duty Cycle: 1:1,
 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.04$ S/m; $\epsilon_r = 35.3$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 4/19/2021, Frequency: 2600 MHz, ConvF(7.74, 7.74, 7.74) @ 2600 MHz
 Electronics: DAE3 Sn374, Calibrated: 4/8/2021

2-3 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (51x81x1): Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Reference Value = 120.7 V/m; Power Drift = -0.13 dB

Fast SAR: SAR(1 g) = 15.7 W/kg; SAR(10 g) = 7.22 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 27.4 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 = 120.7 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 34.9 W/kg

SAR(1 g) = 14.4 W/kg; SAR(10 g) = 6.32 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 9.5 mm

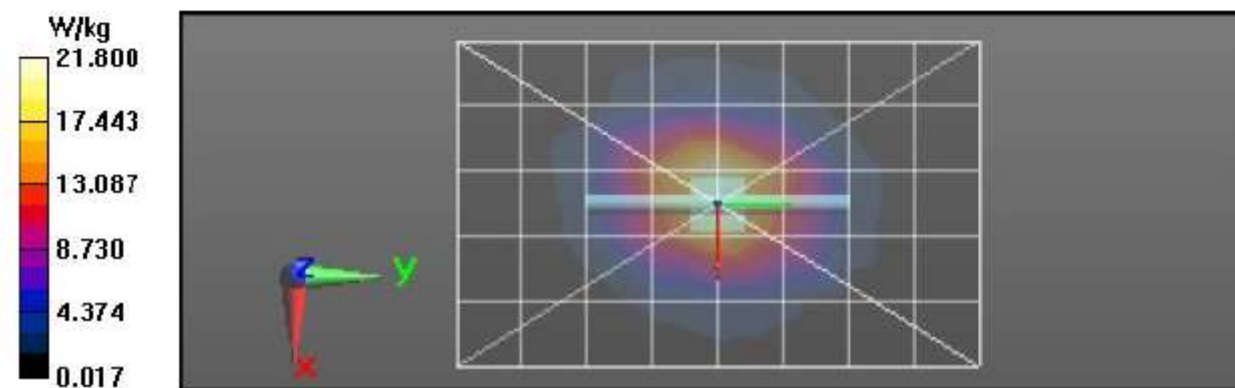
Ratio of SAR at M2 to SAR at M1 = 42.1%

Maximum value of SAR (measured) = 27.0 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) = 28.0 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/15/2021 9:32:48 PM

Robot#: DASY5-PG-3 | Run#: MA(BAD)-SYSP-3500H-210715-09
 Dipole Model#: D3500V2
 Phantom#: ELI4 1109
 Tissue Temp: 21.9 (C)
 Serial#: 1008
 Test Freq: 3500.0000 (MHz)
 Start Power: 31.6 (mW)
 Rotation (1D): 0.140 dB
 Adjusted SAR (1W): 68.99 mW/g (1g)

Comments:

Communication System Band: Dipole 3500, Communication System UID: 0, Duty Cycle: 1:1,
 Medium parameters used: $f = 3500$ MHz; $\sigma = 3.1$ S/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 4/19/2021, Frequency: 3500 MHz, ConvF(7.26, 7.26, 7.26) @ 3500 MHz
 Electronics: DAE3 Sn374, Calibrated: 4/8/2021

3-4 GHz-Rev.5/System Performance Check/Dipole Area Scan 2 (51x51x1): Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Reference Value = 40.10 V/m; Power Drift = -0.04 dB

Fast SAR: SAR(1 g) = 2.43 W/kg; SAR(10 g) = 0.911 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 4.81 W/kg

3-4 GHz-Rev.5/System Performance Check/0-Degree Cube (7x7x11)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 40.10 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 6.39 W/kg

SAR(1 g) = 2.18 W/kg; SAR(10 g) = 0.803 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8 mm

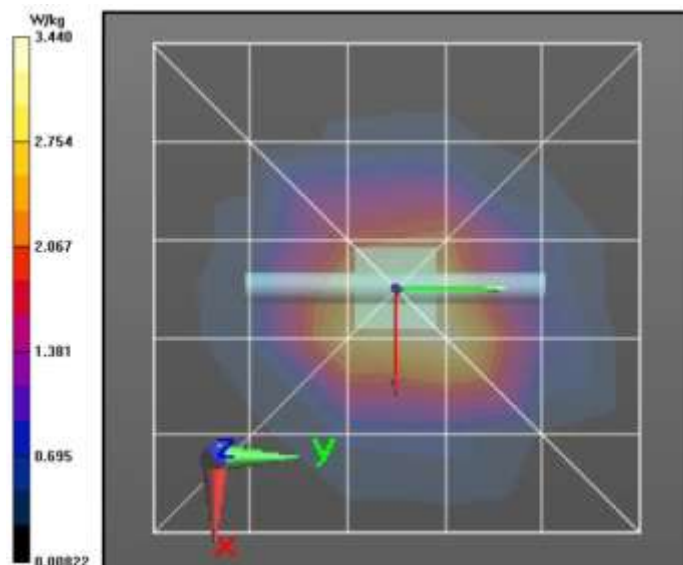
Ratio of SAR at M2 to SAR at M1 = 50.3%

Maximum value of SAR (measured) = 4.58 W/kg

3-4 GHz-Rev.5/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:

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

Maximum value of SAR (measured) = 4.61 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/26/2021 10:27:28 AM

Robot#: DASY5-PG-3 | Run#: MA(BAD)-SYSP-3700H-210626-11
 Dipole Model#: D3700V2
 Phantom#: ELI5 1150
 Tissue Temp: 21.0 (C)
 Serial#: 1028
 Test Freq: 3700.0000 (MHz)
 Start Power: 100 (mW)
 Rotation (1D): 0.140 dB
 Adjusted SAR (1W): 70.20 mW/g (1g)

Comments:

Communication System Band: Dipole 3700, Communication System UID: 0, Duty Cycle: 1:1,
 Medium parameters used: $f = 3700$ MHz; $\sigma = 2.83$ S/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 4/19/2021, Frequency: 3700 MHz, ConvF(7.01, 7.01, 7.01) @ 3700 MHz
 Electronics: DAE3 Sn374, Calibrated: 4/8/2021

3-4 GHz-Rev.5/System Performance Check/Dipole Area Scan 2 (51x51x1): Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Reference Value = 74.62 V/m; Power Drift = -0.11 dB

Fast SAR: SAR(1 g) = 7.2 W/kg; SAR(10 g) = 2.5 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 13.8 W/kg

3-4 GHz-Rev.5/System Performance Check/0-Degree Cube (7x7x11)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 74.62 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 18.2 W/kg

SAR(1 g) = 7.02 W/kg; SAR(10 g) = 2.55 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8 mm

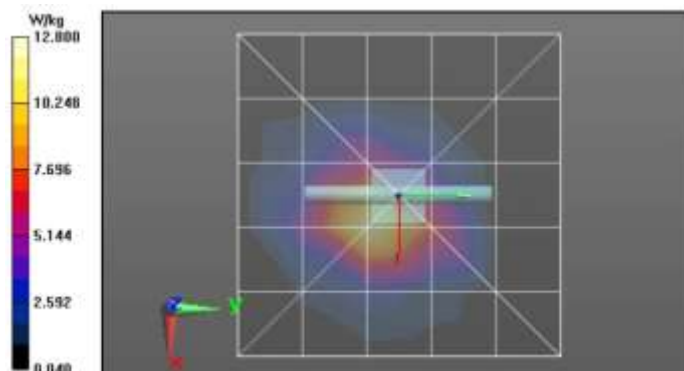
Ratio of SAR at M2 to SAR at M1 = 54.7%

Maximum value of SAR (measured) = 13.5 W/kg

3-4 GHz-Rev.5/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:

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

Maximum value of SAR (measured) = 14.4 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/15/2021 10:27:35 PM

Robot#: DASY5-PG-3 | Run#: MA(BAD)-SYSP-3700H-210715-10
 Dipole Model# D3700V2
 Phantom#: ELI4 1109
 Tissue Temp: 21.9 (C)
 Serial#: 1028
 Test Freq: 3700.0000 (MHz)
 Start Power: 31.6 (mW)
 Rotation (1D): 0.120 dB
 Adjusted SAR (1W): 69.62 mW/g (1g)

Comments:

Communication System Band: Dipole 3700, Communication System UID: 0, Duty Cycle: 1:1,
 Medium parameters used: $f = 3700$ MHz; $\sigma = 3.31$ S/m; $\epsilon_r = 37.9$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7533, Calibrated: 4/19/2021, Frequency: 3700 MHz, ConvF(7.01, 7.01, 7.01) @ 3700 MHz
 Electronics: DAE3 Sn374, Calibrated: 4/8/2021

3-4 GHz-Rev.5/System Performance Check/Dipole Area Scan 2 (51x51x1): Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Reference Value = 39.74 V/m; Power Drift = -0.10 dB

Fast SAR: SAR(1 g) = 2.46 W/kg; SAR(10 g) = 0.904 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 5.04 W/kg

3-4 GHz-Rev.5/System Performance Check/0-Degree Cube (7x7x11)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 39.74 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 6.94 W/kg

SAR(1 g) = 2.2 W/kg; SAR(10 g) = 0.789 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.9 mm

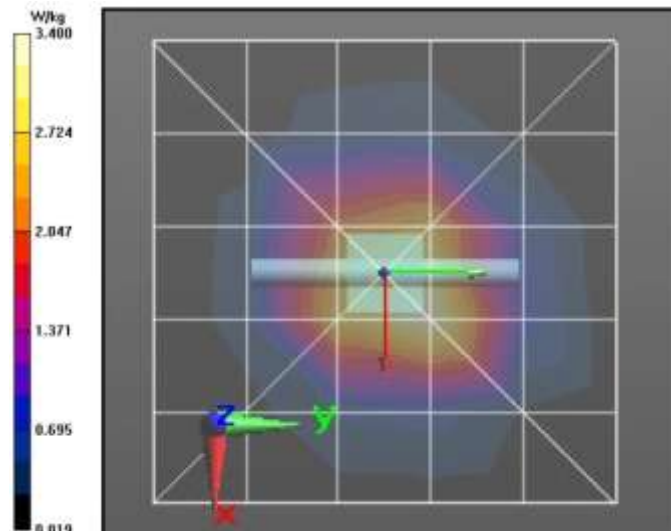
Ratio of SAR at M2 to SAR at M1 = 47.5%

Maximum value of SAR (measured) = 4.80 W/kg

3-4 GHz-Rev.5/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:

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

Maximum value of SAR (measured) = 4.81 W/kg



Motorola Solutions, EME Laboratory

2021-06-23, 12:05

System Performance Check Report

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]
D5GHzV2 - SN1027	5250.0	HSL	20.0	-4.9	-0.1

Exposure Conditions

Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	10		, 0--	5250.0, 0	5.45	4.81	88.9

Hardware Setup

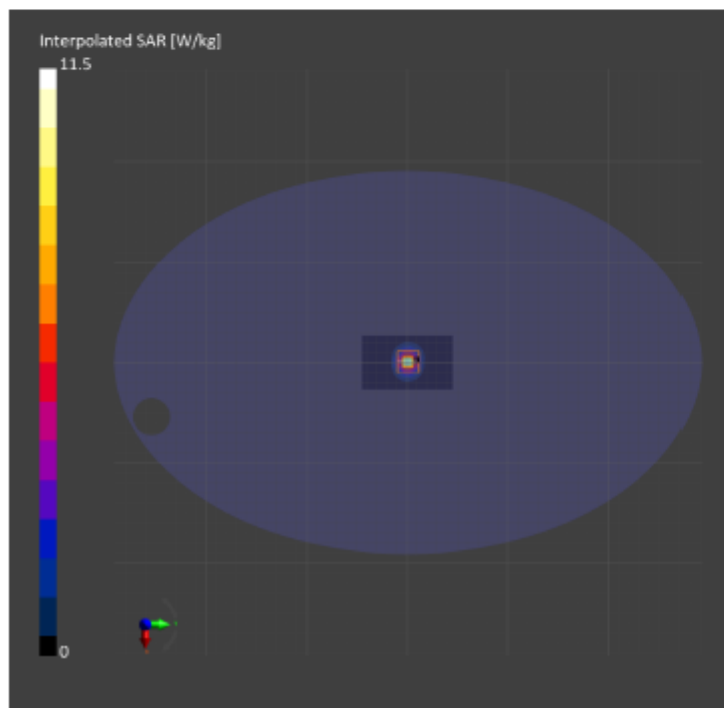
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1016	HSL5250, 2021-Jun-28	EX8DV4 - SN7594, 2020-12-10	DAE4 Sn1488, 2021-04-07

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	54.0 x 90.0	28.0 x 28.0 x 22.0
Grid Steps [mm]	9.0 x 9.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	8.0	1.4
Graded Grid	No	Yes
Grading Ratio	n/a	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2021-06-28, 12:05	2021-06-28, 12:21
psSAR1g [W/Kg]	7.20	7.66
psSAR10g [W/Kg]	2.11	2.80
Power Drift [dB]	0.08	0.12
TSL Correction	Positive / Negative	Positive / Negative



Motorola Solutions, EME Laboratory

2021-06-23, 12:36

System Performance Check Report

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]
DSCHzV2 - SN1027	5500.0	HSL	20.0	-4.5	1.8

Exposure Conditions

Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	10		, 0--	5500.0, 0	5.08	4.56	88.5

Hardware Setup

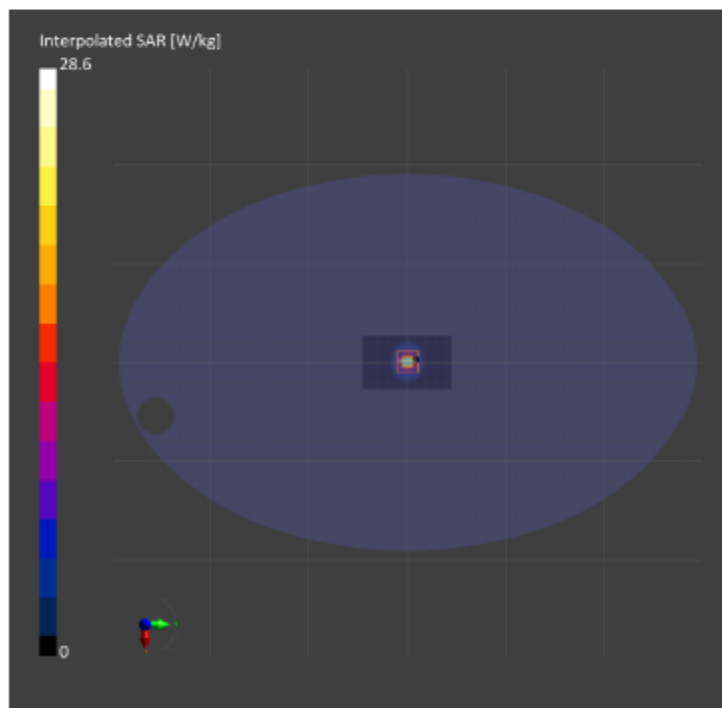
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1016	HSL5500, 2021-Jun-28	EX8DV4 - SN7594, 2020-12-10	DAE4 Sn1488, 2021-04-07

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	54.0 x 90.0	28.0 x 28.0 x 22.0
Grid Steps [mm]	9.0 x 9.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	8.0	1.4
Graded Grid	No	Yes
Grading Ratio	n/a	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2021-06-23, 12:36	2021-06-23, 12:58
psSAR1g [W/Kg]	7.56	7.95
psSAR10g [W/Kg]	2.21	2.87
Power Drift [dB]	0.07	0.04
TSL Correction	Positive / Negative	Positive / Negative



Motorola Solutions, EME Laboratory

2021-06-23, 14:24

System Performance Check Report

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]
D5CHzV2 - SN1027	5750.0	HSL	20.0	4.1	9.6

Exposure Conditions

Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	10		, 0--	5750.0, 0	5.05	4.84	88.2

Hardware Setup

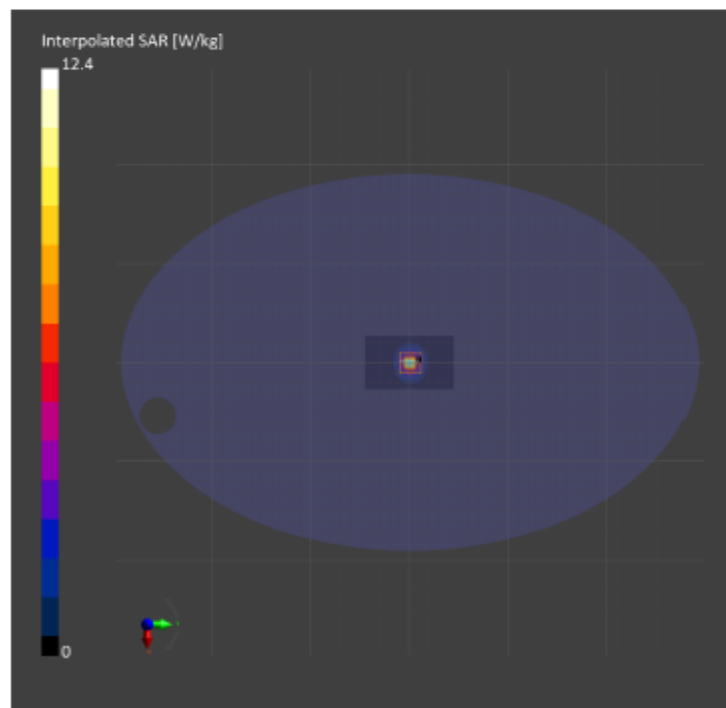
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1016	HSL5750, 2021-Jun-28	EX8DV4 - SN7594, 2020-12-10	DAE4 Sn1488, 2021-04-07

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	54.0 x 90.0	28.0 x 28.0 x 22.0
Grid Steps [mm]	9.0 x 9.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	8.0	1.4
Graded Grid	No	Yes
Grading Ratio	n/a	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2021-06-28, 14:24	2021-06-28, 14:42
psSAR1g [W/Kg]	7.98	8.29
psSAR10g [W/Kg]	2.82	2.48
Power Drift [dB]	0.11	-0.00
TSL Correction	Positive / Negative	Positive / Negative



Appendix E

DUT Scans

Table 16 – Assessments at the Body (LMR)

Motorola Solutions, EME Laboratory

2021-06-22, 17:59

Measurement Report for AAH90ZDU9RH1AN (PMUE56748), 734TXK0049, FRONT, D450, CW, Channel 70 (470.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
AAH90ZDU9RH1AN (PMUE56748)	734TXK0049	242.0 x 50.0 x 40.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	D450	CW, 0--	470.0, 70	11.42	0.90	41.2

Hardware Setup

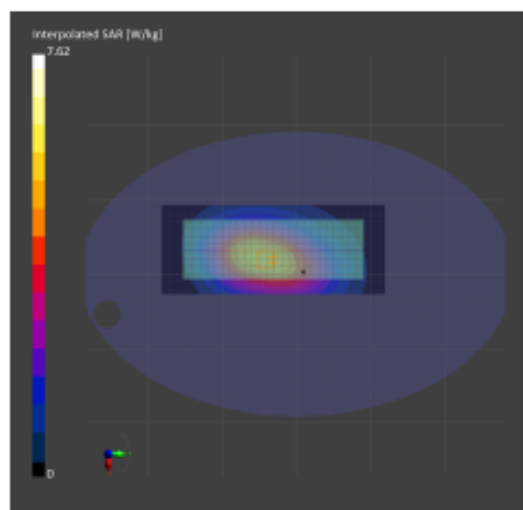
Phantom	TSL, Measured Date	Probe, Calibration Date	DAS, Calibration Date
ELI V4.0 (20deg probe tilt) - 1016	HSL450, 2021-Jun-22	EX2DV4 - SN7594, 2020-12-10	DAS4 Sn1485, 2021-04-07

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 800.0	80.0 x 80.0 x 80.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 1.5
Sensor Surface [mm]	8.0	1.4
Credited Grid	No	Yes
Crediting Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 8p	VMS + 8p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2021-06-22, 17:59	2021-06-22, 18:05
psSAR1g [W/Kg]	4.90	5.05
psSAR10g [W/Kg]	8.59	8.00
Power Drift [dB]	-0.05	-0.12
TSL Correction	Positive only	Positive only
M2/M1 [%]		85.6
Dist 2dB Peak [mm]		> 15.0



(WLAN 2.4GHz)

Motorola Solutions, EME Laboratory

2021-06-23, 04:16

Measurement Report for AAH90ZDU9RH1AN (PMUE5674B), 734TXK0049, FRONT, WLAN 2.4GHz, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle), Channel 6 (2437.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
AAH90ZDU9RH1AN (PMUE5674B)	734TXK0049	213.0 x 78.0 x 40.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	WLAN 2.4GHz	WLAN, 10415-AAA	2437.0, 6	7.63	1.87	35.4

Hardware Setup

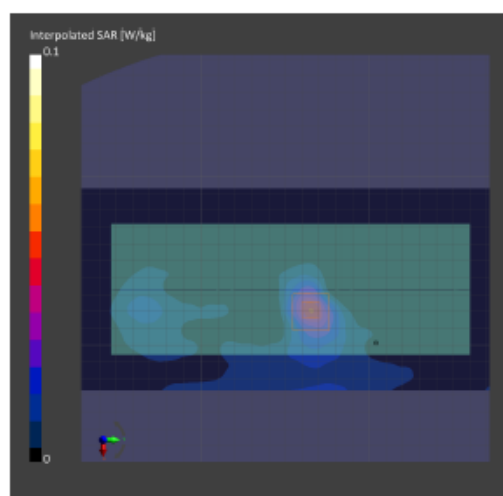
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1016	HSL2450, 2021-Jun-17	EX3DV4 - SN7594, 2020-12-10	DAE4 Sn1488, 2021-04-07

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 264.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	No	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2021-06-23, 04:16	2021-06-23, 04:24
psSAR1g [W/Kg]	0.038	0.036
psSAR10g [W/Kg]	0.018	0.015
Power Drift [dB]	-0.26	-0.14
TSL Correction	Positive only	Positive only
M2/M1 [%]		70.4
Dist 3dB Peak [mm]		> 15.0



(WLAN 5GHz)

Motorola Solutions, EME Laboratory

2021-06-23, 21:15

Measurement Report for AAH90ZDU9RH1AN (PMUE5674B), 734TXK0049, FRONT, WLAN 5GHz, IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle), Channel 106 (5530.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
AAH90ZDU9RH1AN (PMUE5674B)	734TXK0049	213.0 x 80.0 x 40.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	WLAN 5GHz	WLAN, 10626-AAB	5530.0, 106	5.03	4.60	38.5

Hardware Setup

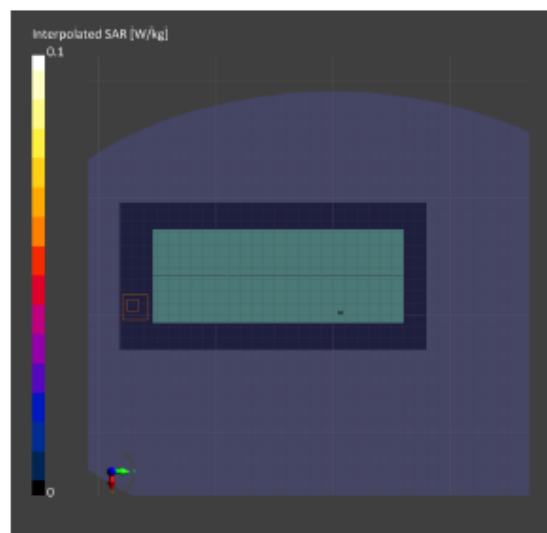
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1016	HSL5500, 2021-Jun-23	EX3DV4 - SN7594, 2020-12-10	DAE4 Sn1488, 2021-04-07

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	126.0 x 252.0	28.0 x 28.0 x 22.0
Grid Steps [mm]	9.0 x 9.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	No	Yes
Grading Ratio	n/a	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2021-06-23, 21:15	2021-06-23, 21:44
psSAR1g [W/Kg]	0.003	
psSAR10g [W/Kg]	0	
Power Drift [dB]	-0.83	-1.64
TSL Correction	Positive only	Positive only
M2/M1 [%]		71.8
Dist 3dB Peak [mm]		> 14.0



(LTE)**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 6/26/2021 1:41:06 AM

Robot#: DASY5-PG-3 | Run#: AMN-AB-210626-02#
 Model#: AAH90ZDU9RH1AN (PMUE5674B)
 Phantom#: ELI4 1050
 Tissue Temp: 21.5 (C)
 Serial#: 734TXK0049
 Antenna: AN000343A01
 Test Freq: 793.0000 (MHz)
 Battery: PMNN4803A
 Carry Acc: PMLN8126A w/ PMLN7008A (DUT @ Front)
 Audio Acc: None
 Start Power: 0.188 (W)

Comments:

Communication System Band: Band 14, E-UTRA/FDD (788.0 - 798.0 MHz), Communication System UID: 10175 - CAG, Duty Cycle: 1:3.73594,

Medium parameters used: $f = 793$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 41.3$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7533, Calibrated: 4/19/2021, Frequency: 793 MHz, ConvF(10.83, 10.83, 10.83) @ 793 MHz

Electronics: DAE3 Sn374, Calibrated: 4/8/2021

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (91x181x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 13.80 V/m; Power Drift = -0.03 dB

Fast SAR: SAR(1 g) = 0.156 W/kg; SAR(10 g) = 0.110 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.196 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 = 13.80 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.211 W/kg

SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.119 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 75.7%

Maximum value of SAR (measured) = 0.194 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) = 0.193 W/kg

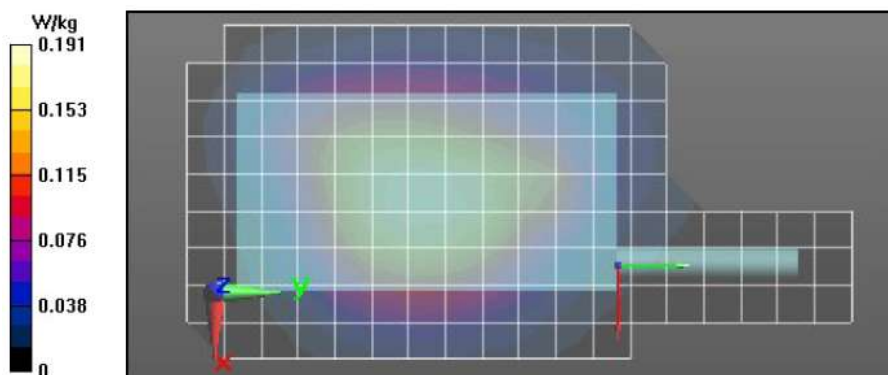


Table 18 – Assessments at the Face (LMR)

Motorola Solutions, EME Laboratory

2021-06-22, 22:01

Measurement Report for AAH90ZDU9RH1AN (PMUE56748), 734TXK0049, FRONT, D450, CW, Channel 50 (450.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
AAH90ZDU9RH1AN (PMUE56748)	734TXK0049	214.0 x 80.0 x 40.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 25.00	D450	CW, 0--	450.0, 50	11.48	0.88	41.7

Hardware Setup

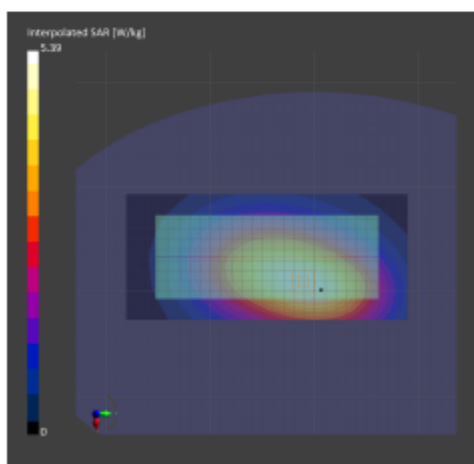
Phantom	TSL, Measured Date	Probe, Calibration Date	DAS, Calibration Date
SLI V4.0 (20deg probe tilt) - 1016	HSL450, 2021-Jun-22	EXQDV4 - SN7594, 2020-12-10	DAS4 Sn1408, 2021-04-07

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 270.0	80.0 x 80.0 x 80.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 1.5
Sensor Surface [mm]	8.0	1.4
Graded Grid	No	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 8p	VMS + 8p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2021-06-22, 22:01	2021-06-22, 22:07
psSAR1g [W/Kg]	4.84	4.89
psSAR10g [W/Kg]	6.54	6.68
Power Drift [dB]	-0.07	-0.17
TSL Correction	Positive only	Positive only
M2/M1 [%]		85.8
Dist 2dB Peak [mm]		> 15.0



(WLAN 2.4GHz)

Motorola Solutions, EME Laboratory

2021-06-23, 06:14

Measurement Report for AAH90ZDU9RH1AN (PMUE5674B), 734TXK0049, FRONT, WLAN 2.4GHz, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle), Channel 6 (2437.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
AAH90ZDU9RH1AN (PMUE5674B)	734TXK0049	213.0 x 78.0 x 40.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 25.00	WLAN 2.4GHz	WLAN, 10415-AAA	2437.0, 6	7.63	1.87	35.4

Hardware Setup

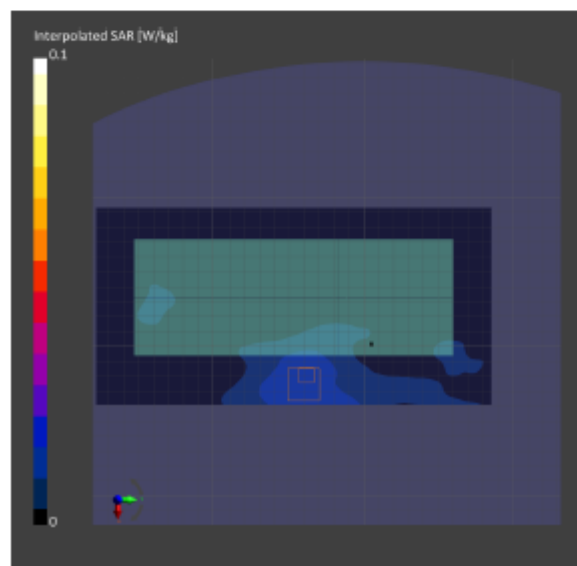
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1016	HSL2450, 2021-Jun-17	EX3DV4 - SN7594, 2020-12-10	DAE4 Sn1488, 2021-04-07

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 264.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	No	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2021-06-23, 06:14	2021-06-23, 06:22
psSAR1g [W/Kg]	0.015	0.013
psSAR10g [W/Kg]	0.009	0.007
Power Drift [dB]	-0.84	-0.31
TSL Correction	Positive only	Positive only
M2/M1 [%]		95.4
Dist 3dB Peak [mm]		> 15.0



(WLAN 5GHz)

Motorola Solutions, EME Laboratory

2021-06-23, 23:10

Measurement Report for AAH90ZDU9RH1AN (PMUE5674B), 734TXK0049, FRONT, WLAN 5GHz, IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle), Channel 58 (5290.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
AAH90ZDU9RH1AN (PMUE5674B)	734TXK0049	213.0 x 80.0 x 40.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 25.00	WLAN 5GHz	WLAN, 10626-AAB	5290.0, 58	5.45	4.35	88.8

Hardware Setup

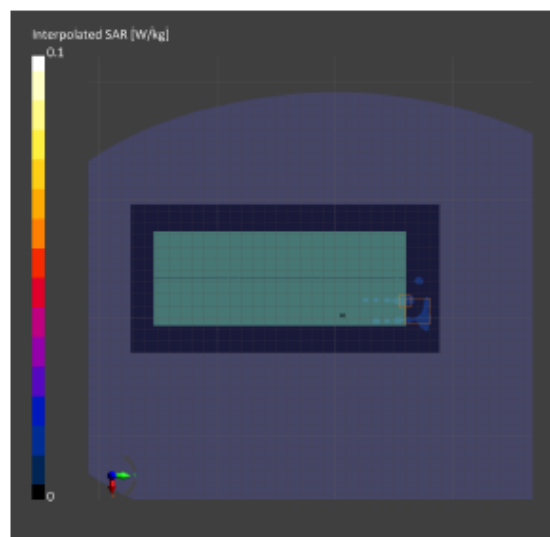
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1016	HSL5500, 2021-Jun-23	EX3DV4 - SN7594, 2020-12-10	DAE4 Sn1488, 2021-04-07

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	126.0 x 252.0	28.0 x 28.0 x 22.0
Grid Steps [mm]	9.0 x 9.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	No	Yes
Grading Ratio	n/a	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2021-06-23, 23:10	2021-06-23, 23:26
psSAR1g [W/Kg]	0.006	
psSAR10g [W/Kg]	0.002	
Power Drift [dB]	-1.35	-0.97
TSL Correction	Positive only	Positive only
M2/M1 [%]		92.1
Dist 3dB Peak [mm]		> 14.0



(LTE)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/26/2021 4:35:19 AM

Robot#: DASY5-PG-3 | Run#: AMN-FACE-210626-06#
 Model#: AAH90ZDU9RH1AN (PMUE5674B)
 Phantom#: ELI4 1050
 Tissue Temp: 21.6 (C)
 Serial#: 734TXK0049
 Antenna: AN000343A01
 Test Freq: 793.0000 (MHz)
 Battery: PMNN4805A
 Carry Acc: Front @ 2.5cm
 Audio Acc: None
 Start Power: 0.188 (W)

Comments:

Communication System Band: Band 14, E-UTRA/FDD (788.0 - 798.0 MHz), Communication System UID: 10175 - CAG, Duty Cycle: 1:3.73594,

Medium parameters used: $f = 793$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 41.3$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7533, Calibrated: 4/19/2021, Frequency: 793 MHz, ConvF(10.83, 10.83, 10.83) @ 793 MHz

Electronics: DAE3 Sn374, Calibrated: 4/8/2021

Below 2 GHz-Rev.3/Face Scan/1-Area Scan (91x181x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 11.91 V/m; Power Drift = 0.01 dB

Fast SAR: SAR(1 g) = 0.121 W/kg; SAR(10 g) = 0.086 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.153 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 = 11.91 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.166 W/kg

SAR(1 g) = 0.125 W/kg; SAR(10 g) = 0.093 W/kg (SAR corrected for target medium)

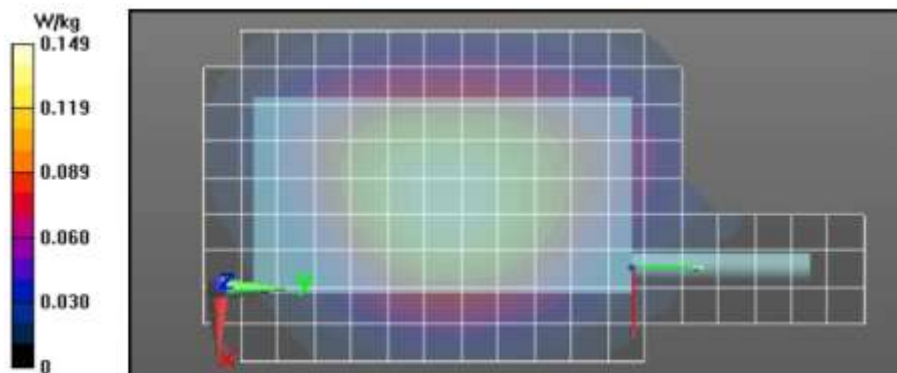
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 74.8%

Maximum value of SAR (measured) = 0.151 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) = 0.152 W/kg



**Table 18 – Assessments for ISED Canada (LTE)
(Band 7 – Body)**

Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/28/2021 1:57:19 AM

Robot#: DASY5-PG-3 | Run#: AR-AB-210628-02#
 Model#: AAH90ZDU9RH1AN (PMUE5674B)
 Phantom#: ELI4 1028
 Tissue Temp: 21.4 (C)
 Serial#: 734TXK0049
 Antenna: AN000346A01
 Test Freq: 2560.0000 (MHz)
 Battery: PMNN4805A
 Carry Acc: PMLN8126A w/ PMLN7008A (DUT @ Front)
 Audio Acc: None
 Start Power: 0.1622 (W)

Comments: 1RB = Offset low (BW 20MHz)

Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz), Communication System UID: 10169 - CAE,
 Duty Cycle: 1:3.73852,

Medium parameters used: $f = 2560$ MHz; $\sigma = 2.01$ S/m; $\epsilon_r = 37.2$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7533, Calibrated: 4/19/2021, Frequency: 2560 MHz, ConvF(7.74, 7.74, 7.74) @ 2560 MHz

Electronics: DAE3 Sn374, Calibrated: 4/8/2021

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (91x181x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.903 V/m; Power Drift = -0.07 dB

Fast SAR: SAR(1 g) = 0.087 W/kg; SAR(10 g) = 0.038 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.162 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 = 6.903 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.180 W/kg

SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.034 W/kg (SAR corrected for target medium)

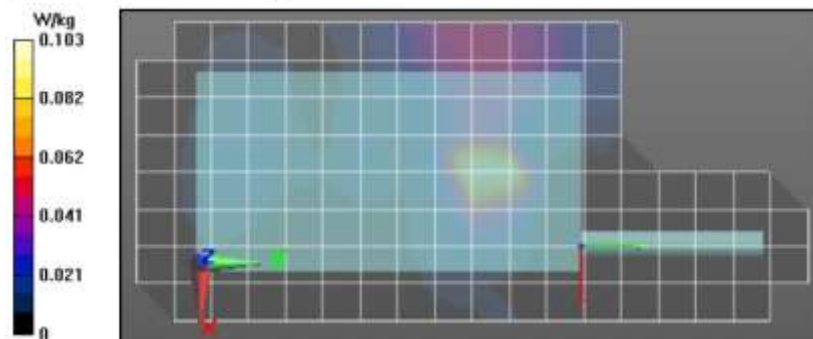
Smallest distance from peaks to all points 3 dB below = 10.6 mm

Ratio of SAR at M2 to SAR at M1 = 42.7%

Maximum value of SAR (measured) = 0.136 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) = 0.135 W/kg



(Band 7 – Face)**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/4/2021 4:42:44 PM

Robot#: DASY5-PG-3 | Run#: AMN-FACE-210804-13
 Model#: AAH90ZDU9RH1AN (PMUE5674B)
 Phantom#: ELI4 1028
 Tissue Temp: 19.8 (C)
 Serial#: 734TXK0049
 Antenna: AN000346A01
 Test Freq: 2510.0000 (MHz)
 Battery: PMNN4805A
 Carry Acc: Front @ 2.5cm
 Audio Acc: None
 Start Power: 0.177 (W)

Comments:

Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz), Communication System UID: 10169 - CAE,
 Duty Cycle: 1:3.73852,

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.94$ S/m; $\epsilon_r = 35.7$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7533, Calibrated: 4/19/2021, Frequency: 2510 MHz, ConvF(7.74, 7.74, 7.74) @ 2510 MHz

Electronics: DAE3 Sn374, Calibrated: 4/8/2021

2-3 GHz-Rev.3/Face Scan/1-Area Scan (101x211x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 3.442 V/m; Power Drift = 0.45 dB

Fast SAR: SAR(1 g) = 0.040 W/kg; SAR(10 g) = 0.023 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.0582 W/kg

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

Reference Value = 3.442 V/m; Power Drift = 0.38 dB

Peak SAR (extrapolated) = 0.0740 W/kg

SAR(1 g) = 0.038 W/kg; SAR(10 g) = 0.022 W/kg (SAR corrected for target medium)

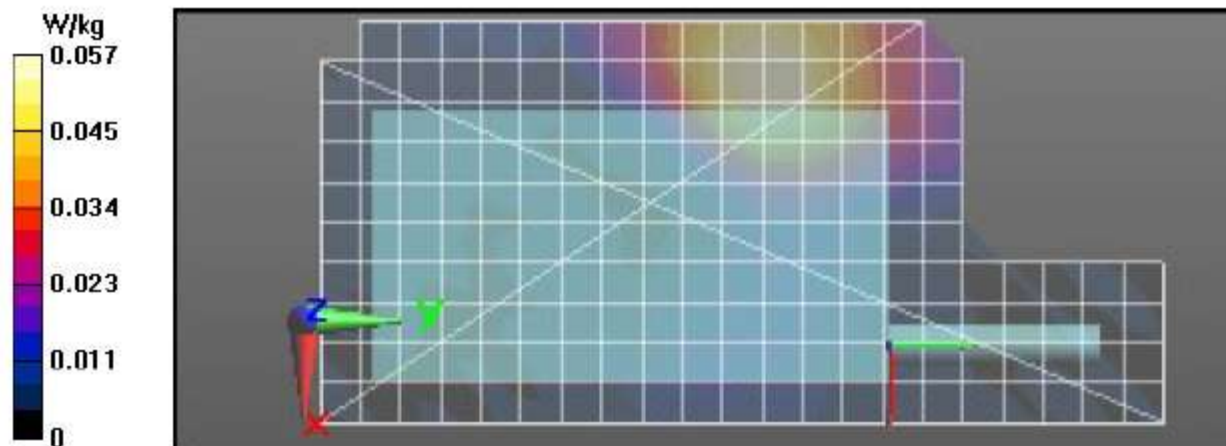
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 50.4%

Maximum value of SAR (measured) = 0.0595 W/kg

2-3 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) = 0.0570 W/kg



(Band 48 - Body)**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 6/27/2021 2:12:45 AM

Robot#: DASY5-PG-3 | Run#: AMN-AB-210627-03#
 Model#: AAH90ZDU9RH1AN (PMUE5674B)
 Phantom#: ELI5 1150
 Tissue Temp: 21.2 (C)
 Serial#: 734TXK0049
 Antenna: AN000343A01
 Test Freq: 3690.0000 (MHz)
 Battery: PMNN4805A
 Carry Acc: PMLN8127A w/ PMLN5407A (DUT @ Front)
 Audio Acc: None
 Start Power: 0.096 (W)

Comments: 1RB = Offset Low (BW 20M)

Communication System Band: Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz), Communication System UID: 10435 - AAF, Duty Cycle: 1:6.05899,

Medium parameters used: $f = 3690$ MHz; $\sigma = 2.82$ S/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7533, Calibrated: 4/19/2021, Frequency: 3690 MHz, ConvF(7.01, 7.01, 7.01) @ 3690 MHz

Electronics: DAE3 Sn374, Calibrated: 4/8/2021

3-4 GHz-Rev.5/Full Ab Scan/1-Area Scan (101x211x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 3.515 V/m; Power Drift = -0.08 dB

Fast SAR: SAR(1 g) = 0.054 W/kg; SAR(10 g) = 0.022 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.101 W/kg

3-4 GHz-Rev.5/Full Ab Scan/2-Zoom Scan (7x7x11)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 3.515 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.134 W/kg

SAR(1 g) = 0.053 W/kg; SAR(10 g) = 0.023 W/kg (SAR corrected for target medium)

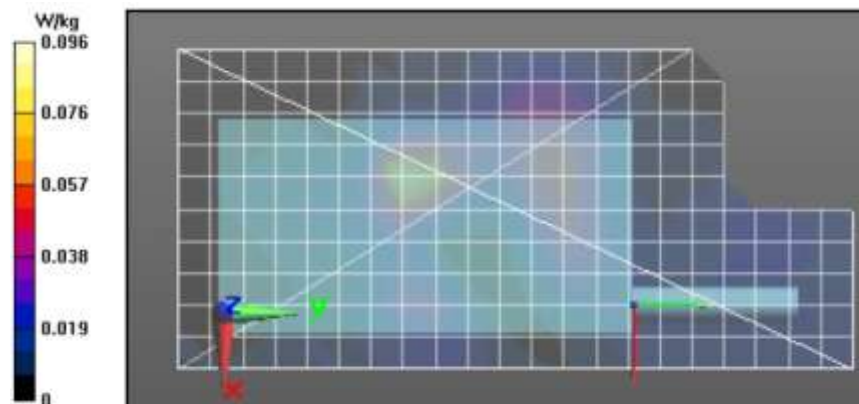
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 49.7%

Maximum value of SAR (measured) = 0.0953 W/kg

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

Maximum value of SAR (measured) = 0.0952 W/kg



(Band 48 - Face)**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/16/2021 6:12:19 AM

Robot#: DASY5-PG-3 | Run#: MA(BAD)-FACE-210716-05#
 Model#: AAH90ZDU9RH1AN (PMUE5674B)
 Phantom#: ELI4 1109
 Tissue Temp: 21.6 (C)
 Serial#: 734TXK0049
 Antenna: AN000343A01
 Test Freq: 3560.0000 (MHz)
 Battery: PMNN4805A
 Carry Acc: Front @ 2.5cm
 Audio Acc: None
 Start Power: 0.115 (W)

Comments: Full Scan

Communication System Band: Band 48, E-UTRA/TDD (3550.0 - 3700.0 MHz), Communication System UID: 10435 - AAF,
 Duty Cycle: 1:6.05899,

Medium parameters used: $f = 3560$ MHz; $\sigma = 3.17$ S/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7533, Calibrated: 4/19/2021, Frequency: 3560 MHz, ConvF(7.26, 7.26, 7.26) @ 3560 MHz

Electronics: DAE3 Sn374, Calibrated: 4/8/2021

3-4 GHz-Rev.5/Full Face Scan/1-Area Scan (101x211x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 6.600 V/m; Power Drift = 0.10 dB

Fast SAR: SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.043 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.139 W/kg

3-4 GHz-Rev.5/Full Face Scan/2-Zoom Scan (7x7x11)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 6.600 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 0.193 W/kg

SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.037 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 52.2%

Maximum value of SAR (measured) = 0.138 W/kg

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

Maximum value of SAR (measured) = 0.142 W/kg

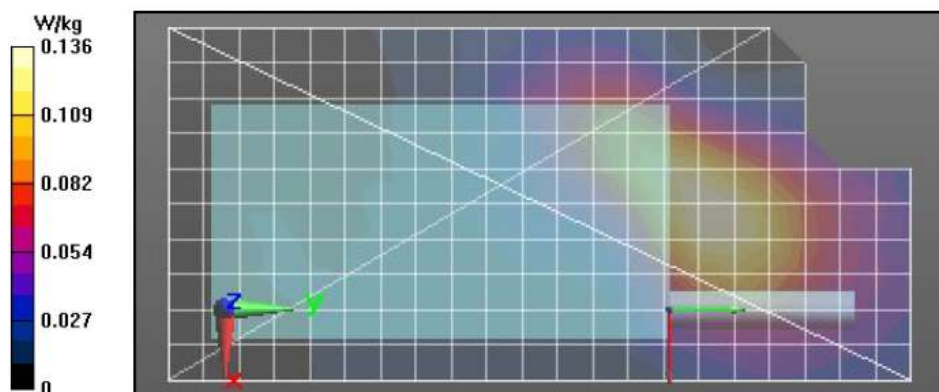


Table 19 – Shortened Scan

Motorola Solutions, EME Laboratory

2021-06-22, 23:42

Measurement Report for AAH90ZDU9RH1AN (PMUE5674B), 734TXK0049, FRONT, D450, CW, Channel 70 (470.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
AAH90ZDU9RH1AN (PMUE5674B)	734TXK0049	243.0 x 80.0 x 40.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	D450	CW, 0--	470.0, 70	11.43	0.90	41.2

Hardware Setup

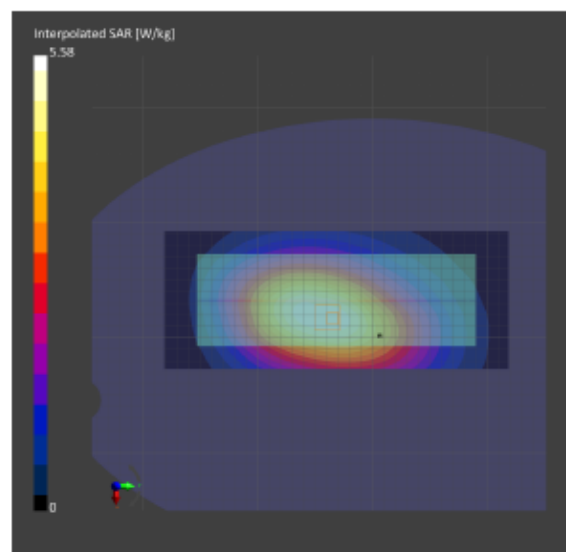
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1016	HSL450, 2021-Jun-22	EX3DV4 - SN7594, 2020-12-10	DAE4 Sn1488, 2021-04-07

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 300.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	No	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2021-06-22, 23:42	2021-06-22, 23:50
psSAR1g [W/Kg]	4.97	5.10
psSAR10g [W/Kg]	3.63	3.81
Power Drift [dB]	-0.07	-0.14
TSL Correction	Positive only	Positive only
M2/M1 [%]		84.9
Dist 3dB Peak [mm]		> 15.0



APPENDIX F

DUT Test Position Photos

1.0 Highest SAR Test Position per location

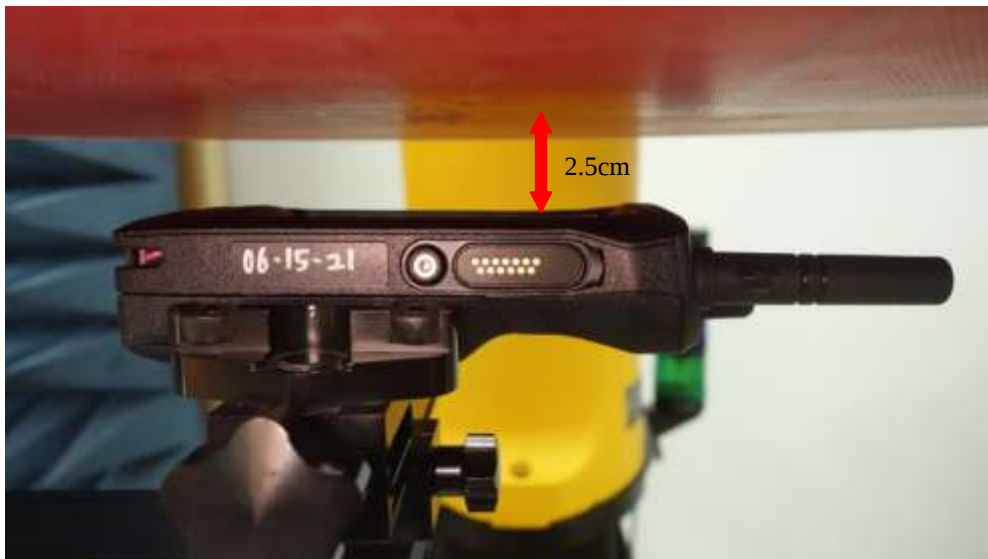
1.1 Body

DUT w/ antenna PMAE4071A with offered battery PMNN4805A and body worn kit PMLN8126A with PMLN4651A against the phantom without an audio accessory attached.



1.2 Face

Back of DUT w/ antenna AN000350A01 with offered battery PMNN4804A separated 2.5cm from the phantom without an audio accessory attached.



APPENDIX G
DUT, Body worn and audio accessories Photos

Please refer to original filing report