



DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 1 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: 05/06/2024 Report Revision: C
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Responsible Engineer: Yeng Yee Yeong (EME Engineer)
Report Author: Muhammad Hizami bin Ismail (EME Senior Technician)
Date/s Tested: 09/17/2023-09/19/2023, 09/21/2023-09/30/2023, 10/01/2023-10/13/2023, 10/15/2023, 10/18/2023-10/19/2023, 12/18/2023
Manufacturer: Motorola Solutions Inc.
Manufacturer Location: Penang, Malaysia
DUT Description: Handheld Portable – MTP3550 800 FKP CLR ROM GNSS
Test TX mode(s): MSPD (4:7), SSPD (1:4) and Bluetooth / Bluetooth LE
Max. Power output: Refer Table 3
Nominal Power: Refer Table 3
Tx Frequency Bands: Refer Table 3
Signaling type: TDMA, PI/4DQPSK & FHSS (Bluetooth / Bluetooth LE)
Model(s) Tested: AZH63UCH6TZ8BN (PMUF1782B)
Model(s) Certified: Refer to Section 1.0 Introduction
Serial Number(s): 121TZT0093, 121TZT0094
Classification: Occupational/Controlled Environment
Firmware Version: D35.000.9941
Applicant Name: Motorola Solutions Inc.
Applicant Address: Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia.
FCC ID: AZ489FT7179
 This report contains results that are immaterial for FCC equipment approval, which are clearly identified.
FCC Test Firm Registration Number: 823256
IC: 109U-89FT7179
 This report contains results that are immaterial for ISED equipment approval, which are clearly identified.
ISED Test Site registration: 24843
 The test results clearly demonstrate compliance with Occupational/Controlled RF Exposure limits of 8 W/kg averaged over 1 gram per the requirements of FCC 47 CFR § 2.1093 and 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.

Saw Sun Hock (Approval Signatory)
Approved Date: 05/07/2024

Appendix D

System Verification Check Scans

9/18/23, 7:47 PM

_0_CW_835-00MHz.html

Motorola Solutions, EME Laboratory

2023-09-18, 19:21

System Performance Check Report

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]
D835V2 - SN4d029	835.0	HSL	15.0	-8.5	-8.7

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		CW, 0--	835.0, 0	10.55	0.944	40.3

Hardware Setup

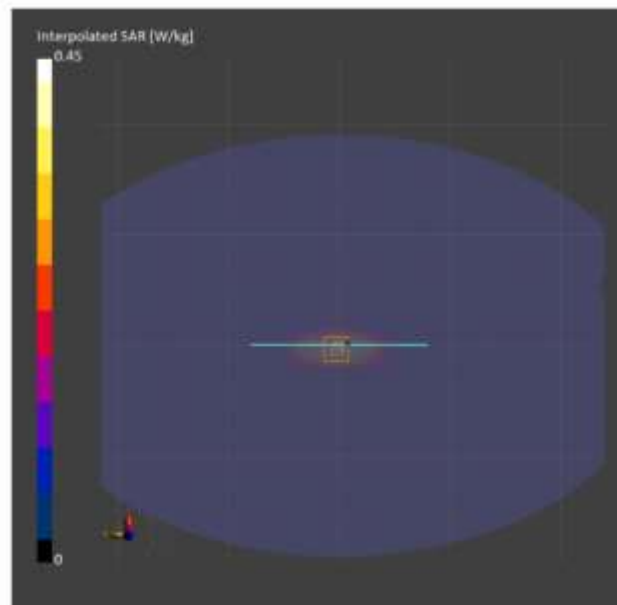
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELI4 1016	HSL835 , 2023-Sep-18	EX3DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	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	2023-09-18, 19:21	2023-09-18, 19:28
psSAR1g [W/Kg]	0.285	0.281
psSAR10g [W/Kg]	0.190	0.182
Power Drift [dB]	-0.02	-0.00
TSL Correction	Positive / Negative	Positive / Negative



Appendix E

DUT Scans

Highest SAR Configuration of LMR assessments at the FCC Body (809 – 824MHz)

Table 18

9/21/23, 8:23 PM

BACK_0-00_85012070001_NNTN8020B_HLN8602A_None_10661_Pulse Waveform 200Hz 60_824-00MHz.html

Motorola Solutions, EME Laboratory

2023-09-21, 20:11

Measurement Report for PMUF1782B, 121TZT0093, BACK, D835, Pulse Waveform (200Hz, 60%), Channel 39 (824.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUF1782B	121TZT0093	181.0 x 61.0 x 41.0

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	BACK, 0.00	D835	CW, 10661-AAB	824.0, 39	10.55	0.929	40.0

Hardware Setup

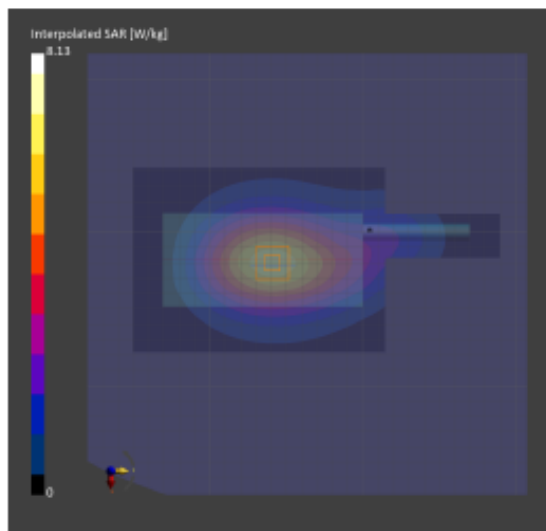
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELI4 1016	HSL885, 2023-Sep-21	EX3DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 240.0	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	n/a	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	2023-09-21, 20:11	2023-09-21, 20:20
psSAR1g [W/Kg]	5.81	5.97
psSAR10g [W/Kg]	4.08	4.80
Power Drift [dB]	0.04	0.01
TSL Correction	Positive only	Positive only
M2/M1 [%]		91.7
Dist 9dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at the FCC Face (809 – 824MHz)

Table 44

9/19/23, 1:29 PM

FRONT_25-00_85012089001_NNTN8020B_front_NA_10659_Pulse Waveform 200Hz 20_809-00MHz.html

Motorola Solutions, EME Laboratory

2023-09-19, 13:18

Measurement Report for PMUF1782B, 121TZT0093,FRONT, D835, Pulse Waveform (200Hz, 20%), Channel 24 (809.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUF1782B	121TZT0093	181.0 x 61.0 x 41.0

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	D835	CW, 10659-AAB	809.0, 24	10.75	0.919	40.6

Hardware Setup

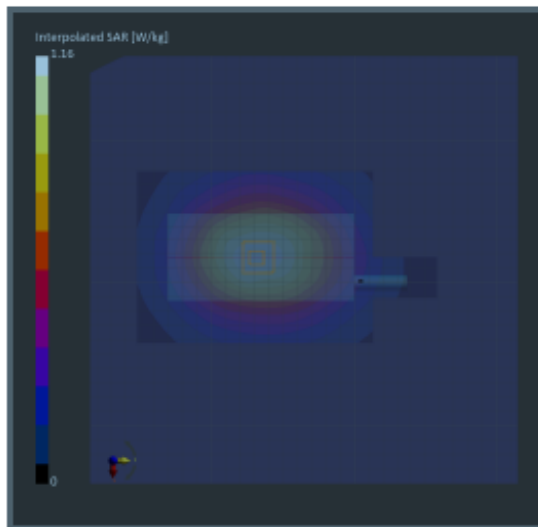
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELI4 1016	HSL835 , 2023-Sep-19	EX3DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	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	n/a	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	2023-09-19, 13:18	2023-09-19, 13:28
psSAR1g [W/Kg]	0.860	0.888
psSAR10g [W/Kg]	0.608	0.647
Power Drift [dB]	-0.08	-0.06
TSL Correction	Positive only	Positive only
M2/M1 [%]		92.6
Dist 3dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at the FCC Head (809 – 824MHz)

Table 47

9/18/23, 4:19 PM

CHEEK_0-00_85012089001_NNTN8020B_NONE TOUCH_NONE_10659_Pulse Waveform 200Hz 20_809-00MHz.html

Motorola Solutions, EME Laboratory

2023-09-18, 16:00

Measurement Report for PMUF17828, 121TZT0093,CHEEK, D835, Pulse Waveform (200Hz, 20%), Channel 24 (809.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUF17828	121TZT0098	181.0 x 61.0 x 41.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, HSL	CHEEK, 0.00	D835	CW, 10659-AAB	809.0, 24	10.75	0.912	40.0

Hardware Setup

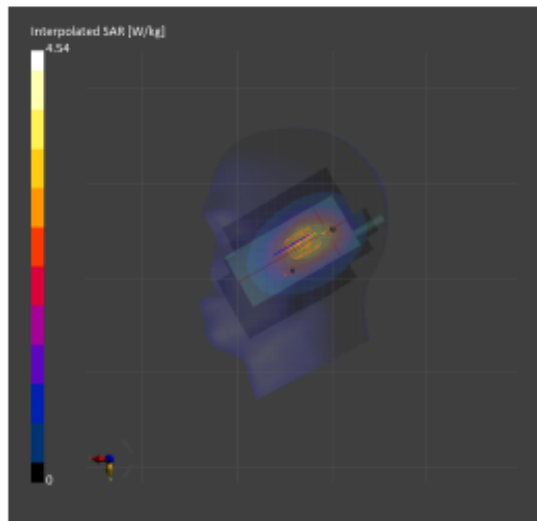
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
SAM Chin-20, Right V10.0 (80deg probe tilt) - 1001	HSL885 , 2023-Sep-18	EX8DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	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	n/a	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	2023-09-18, 16:00	2023-09-18, 16:16
psSAR1g [W/Kg]	8.12	8.26
psSAR10g [W/Kg]	2.16	2.89
Power Drift [dB]	-0.14	-0.18
TSL Correction	Positive only	Positive only
M2/M1 [%]		89.5
Dist 8dB Peak [mm]		18.5



Highest SAR Configuration of LMR assessments at the FCC Body (854 – 869MHz)

Table 60

10/7/23, 1:11 PM

BACK_0-00_85012070001_NNTN8023C_RLN4570A_None_10661_Pulse Waveform 200Hz 80_869-00MHz.html

Motorola Solutions, EME Laboratory

2023-10-07, 12:39

Measurement Report for PMUF1782B, 121TZT0093, BACK, D835, Pulse Waveform (200Hz, 60%), Channel 84 (869.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUF1782B	121TZT0098	181.0 x 61.0 x 41.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Fiat, HSL	BACK, 0.00	D835	CW, 10661-AAB	869.0, 84	10.8	0.974	89.7

Hardware Setup

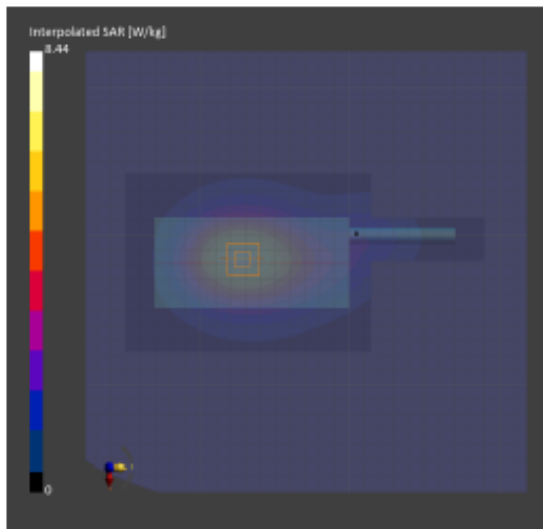
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) – ELI4 1016	HSL885 , 2023-Oct-07	EX8DV4 – SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extants [mm]	120.0 x 240.0	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	n/a	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	2023-10-07, 12:39	2023-10-07, 12:49
psSAR1g [W/Kg]	6.44	6.84
psSAR10g [W/Kg]	4.42	4.56
Power Drift [dB]	-0.10	-0.21
TSL Correction	Positive only	Positive only
M2/M1 [%]		92.5
Dist 8dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at the FCC Face (854 – 869MHz)

Table 75

10/1/23, 9:54 AM

FRONT_25-00_85012069001_NNTN8020B_front_NA_10659_Pulse Waveform 200Hz 20_861-50MHz.html

Motorola Solutions, EME Laboratory

2023-10-01, 09:41

Measurement Report for PMUF1782B, 121TZT0093,FRONT, Custom Band, Pulse Waveform (200Hz, 20%), Channel 861500 (861.5 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUF1782B	121TZT0093	181.0 x 61.0 x 41.0

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	Custom Band	CW, 10659-AAB	861.5, 861500	10.8	0.970	40.1

Hardware Setup

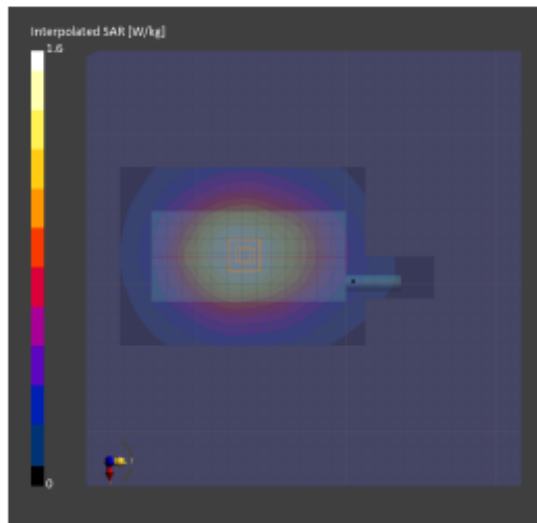
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELI4 1016	HSL885, 2023-Sep-30	EK8DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extants [mm]	120.0 x 210.0	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	n/a	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	2023-10-01, 09:41	2023-10-01, 09:52
psSAR1g [W/Kg]	1.11	1.16
psSAR10g [W/Kg]	0.776	0.889
Power Drift [dB]	-0.00	0.05
TSL Correction	Positive only	Positive only
M2/M1 [%]		91.8
Dist 8dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at the FCC Head (854 – 869MHz)

Table 77

9/30/23, 3:01 PM

CHEEK_0-00_85012070001_PMNN4522A_NoneTouch_None_10659_Pulse Waveform 200Hz 20_854-00MHz.html

Motorola Solutions, EME Laboratory

2023-09-30, 14:28

Measurement Report for PMUF1782B, 121TZT0093,CHEEK, D835, Pulse Waveform (200Hz, 20%), Channel 69 (854.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUF1782B	121TZT0098	181.0 x 61.0 x 41.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
LeftHead, HSL	CHEEK, 0.00	D835	CW, 10659-AAB	854.0, 69	10.55	0.962	40.2

Hardware Setup

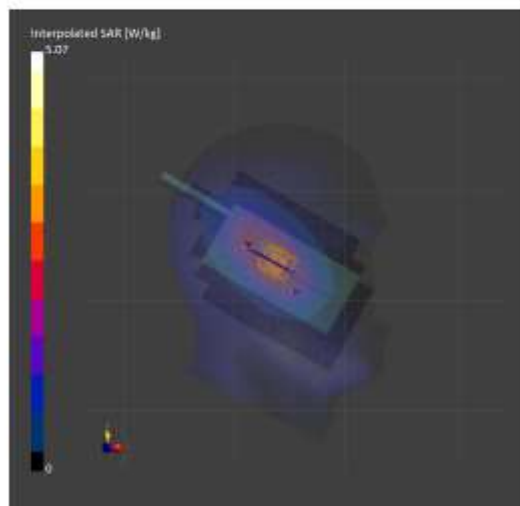
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
SAM Chin-20, Left V10.0 (30deg probe tilt) - 1001	HSL885, 2023-Sep-30	EX8DV4 - SN7594, 2022-04-26	DAE4 5n729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 240.0	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	n/a	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	2023-09-30, 14:28	2023-09-30, 14:58
psSAR1g [W/Kg]	2.91	8.07
psSAR10g [W/Kg]	1.97	2.18
Power Drift [dB]	-0.11	0.00
TSL Correction	Positive only	Positive only
M2/M1 [R]		80.4
Dist 8dB Peak [mm]		27.4



Highest SAR Configuration of LMR assessments at the ISED Body (806 – 824MHz)

Table 79

9/21/23, 8:23 PM

BACK_0-00_85012070001_NNTN8020B_HLN8602A_None_10861_Pulse Waveform 200Hz 60_824-00MHz.html

Motorola Solutions, EME Laboratory

2023-09-21, 20:11

Measurement Report for PMUF1782B, 121TZT0093, BACK, D835, Pulse Waveform (200Hz, 60%), Channel 39 (824.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUF1782B	121TZT0093	181.0 x 61.0 x 41.0

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	BACK, 0.00	D885	CW, 10661-AAB	824.0, 89	10.55	0.929	40.0

Hardware Setup

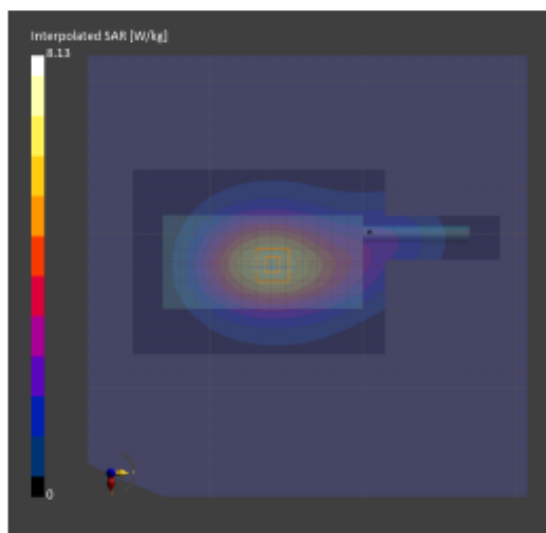
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELJ4 1016	HSL885 , 2023-Sep-21	EX3DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 240.0	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	n/a	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	2023-09-21, 20:11	2023-09-21, 20:20
psSAR1g [W/Kg]	5.81	5.97
psSAR10g [W/Kg]	4.08	4.80
Power Drift [dB]	0.04	0.01
TSL Correction	Positive only	Positive only
M2/M1 [%]		91.7
Dist 8dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at the ISED Face (806 – 824MHz)

Table 79

9/30/23, 1:43 AM

FRONT_25-00_85012089001_NNTN8020B_front_NA_10650_Pulse Waveform 200Hz 20_824-00MHz.html

Motorola Solutions, EME Laboratory

2023-09-30, 01:20

Measurement Report for PMUF1782B, 121TZT0094,FRONT, D835, Pulse Waveform (200Hz, 20%), Channel 39 (824.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUF1782B	121TZT0094	181.0 x 61.0 x 41.0

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	D835	CW, 10659-AAB	824.0, 39	10.55	0.981	40.4

Hardware Setup

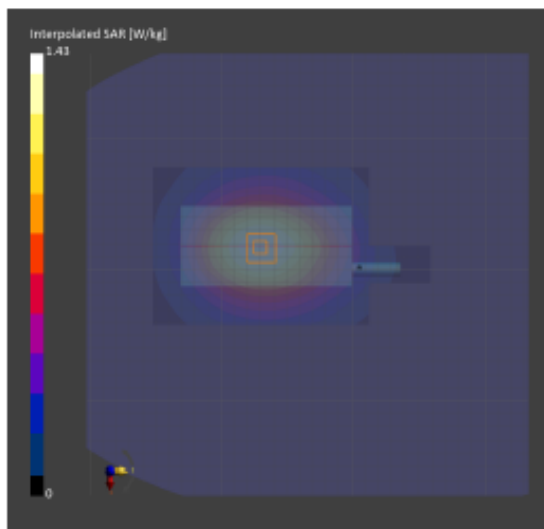
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELI4 1016	HSL885, 2023-Sep-29	EX8DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	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	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-09-30, 01:20	2023-09-30, 01:37
psSAR1g [W/Kg]	1.05	1.07
psSAR10g [W/Kg]	0.789	0.808
Power Drift [dB]	-0.12	-0.08
TSL Correction	Positive only	Positive only
M2/M1 [%]		90.4
Dist 8dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at the ISED Head (806 – 824MHz)

Table 79

9/28/23, 5:26 PM

CHEEK_0-00_85012069001_NNTN8020B_NONE TOUCH_NONE_10659_Pulse Waveform 200Hz 20_816-50MHz.html

Motorola Solutions, EME Laboratory

2023-09-28, 17:05

Measurement Report for PMUF1782B, 121TZT0093,CHEEK, Custom Band, Pulse Waveform (200Hz, 20%), Channel 816500 (816.5 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUF1782B	121TZT0098	181.0 x 61.0 x 41.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead, HSL	CHEEK, 0.00	Custom Band	CW, 10659-AAS	816.5, 816500	10.55	0.914	41.4

Hardware Setup

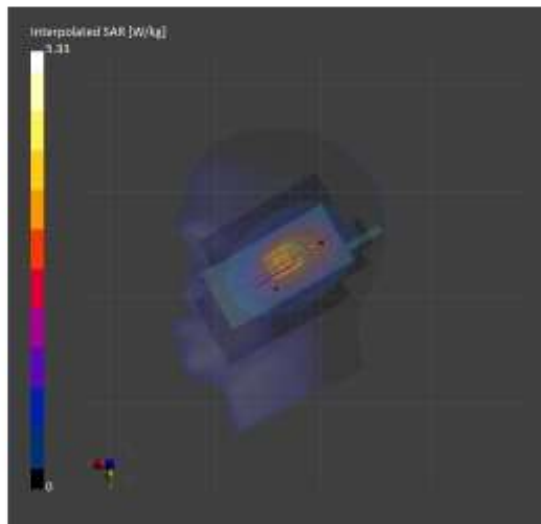
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
SAM Chin-20, Right V10.0 (30deg probe tilt) - 1001	HSL885, 2023-Sep-28	EX8DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	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	n/a	Yes
Grading Ratio	n/a	1.5
MAJA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-09-28, 17:05	2023-09-28, 17:24
psSAR1g [W/Kg]	8.87	8.49
psSAR10g [W/Kg]	2.81	2.58
Power Drift [dB]	-0.04	-0.08
TSL Correction	Positive only	Positive only
M2/M1 [K]		87.7
Dist 3dB Peak [mm]		22.4



Highest SAR Configuration of LMR assessments at the ISED Body (851 – 869MHz)

Table 79

10/7/23, 1:11 PM

BACK_0-00_85012070001_NNTN8023C_RLN4570A_None_10661_Pulse Waveform 200Hz 60_869-00MHz.html

Motorola Solutions, EME Laboratory

2023-10-07, 12:39

Measurement Report for PMUF1782B, 121TZT0093, BACK, D835, Pulse Waveform (200Hz, 60%), Channel 84 (869.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUF1782B	121TZT0098	181.0 x 61.0 x 41.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Fiat, HSL	BACK, 0.00	D835	CW, 10661-AAB	869.0, 84	10.8	0.974	89.7

Hardware Setup

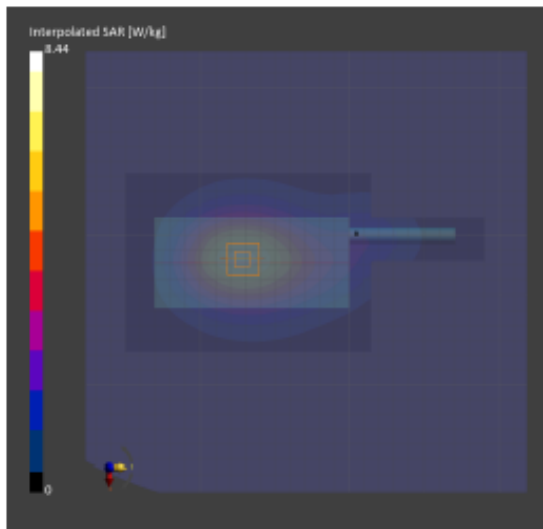
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) – ELI4 1016	HSL885 , 2023-Oct-07	EX8DV4 – SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extants [mm]	120.0 x 240.0	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	n/a	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	2023-10-07, 12:39	2023-10-07, 12:49
psSAR1g [W/Kg]	6.44	6.84
psSAR10g [W/Kg]	4.42	4.56
Power Drift [dB]	-0.10	-0.21
TSL Correction	Positive only	Positive only
M2/M1 [%]		92.5
Dist 8dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at the ISED Face (851 – 869MHz)

Table 79

10/10/23, 10:29 AM

FRONT_25-00_85012069001_NNTN8020B_front_NA_10659_Pulse Waveform 200Hz 20_869-00MHz.html

Motorola Solutions, EME Laboratory

2023-10-10, 10:11

Measurement Report for PMUF1782B, 121TZT0093,FRONT, D835, Pulse Waveform (200Hz, 20%), Channel 84 (869.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUF1782B	121TZT0093	181.0 x 61.0 x 41.0

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	D835	CW, 10659-AAB	869.0, 84	10.8	0.977	89.7

Hardware Setup

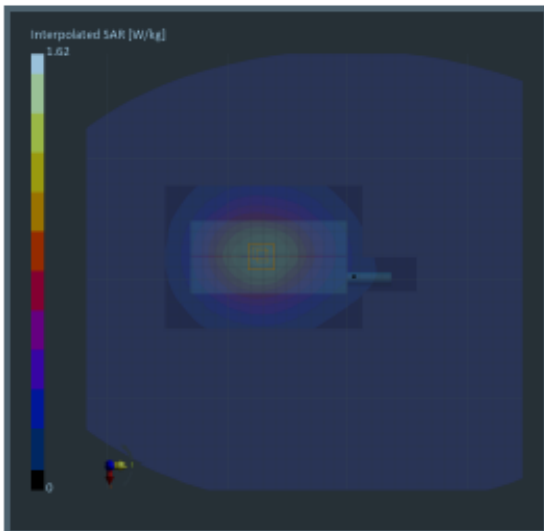
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELI4 1016	HSL885 , 2023-Oct-09	EX3DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	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	n/a	Yes
Grading Ratio	n/a	1.5
MAJA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-10, 10:11	2023-10-10, 10:21
psSAR1g [W/Kg]	1.11	1.19
psSAR10g [W/Kg]	0.788	0.868
Power Drift [dB]	0.04	0.08
TSL Correction	Positive only	Positive only
M2/M1 [%]		91.5
Dist 8dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at the ISED Head (851 – 869MHz)

Table 79

10/11/23, 2:27 PM

CHEEK_0-00_85012070001_PMNN4522A_NoneTouch_None_10659_Pulse Waveform 200Hz 20_861-50MHz.html

Motorola Solutions, EME Laboratory

2023-10-11, 13:16

Measurement Report for PMUF1782B, 121TZT0093,CHEEK, Custom Band, Pulse Waveform (200Hz, 20%), Channel 861500 (861.5 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUF1782B	121TZT0098	181.0 x 61.0 x 41.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
LeftHead, HSL	CHEEK, 0.00	Custom Band	CW, 10659-AAB	861.5, 861500	10.8	0.960	41.2

Hardware Setup

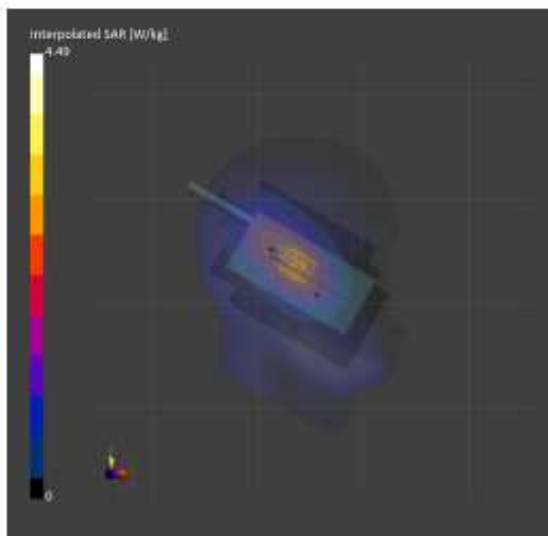
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
SAM Chin-20, Left V10.0 (80deg probe tilt) - 1001	HSL885, 2023-Oct-10	EK3DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 240.0	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	n/a	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	2023-10-11, 13:16	2023-10-11, 13:51
psSAR1g [W/Kg]	2.95	3.09
psSAR10g [W/Kg]	2.00	2.21
Power Drift [dB]	-0.04	0.07
TSL Correction	Positive only	Positive only
M2/M1 [%]		90.6
Dist 8dB Peak [mm]		25.8



APPENDIX F

Shortened Scan of Highest SAR configuration

Shortened Scan

Table 80

10/11/23, 8:07 AM

BACK_0-00_85012070001_NNNTN8023C_RLN4570A_None_10661_Pulse Waveform 200Hz 60_869-00MHz.html

Motorola Solutions, EME Laboratory

Unknown

Measurement Report for PMUF1782B, 121TZT0093, BACK, D835, Pulse Waveform (200Hz, 60%), Channel 84 (869.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUF1782B	121TZT0093	181.0 x 61.0 x 41.0

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	BACK, 0.00	D835	CW, 10661-AAB	869.0, 84	10.8	0.967	41.1

Hardware Setup

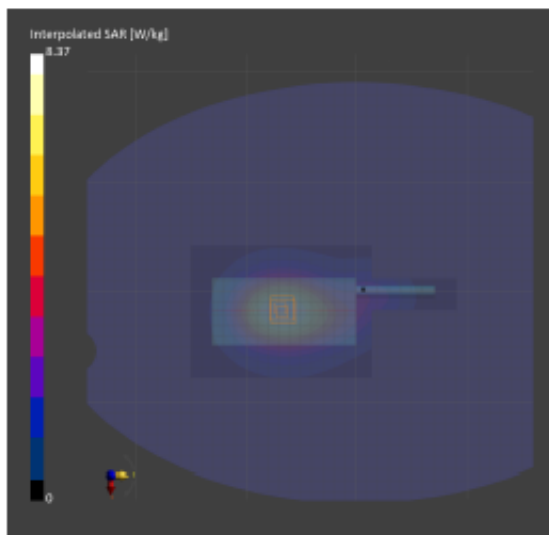
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELI4 1016	HSL885 , 2023-Oct-10	EX8DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 240.0	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	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	Unknown method	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	Unknown	2023-10-11, 01:31
psSAR1g [W/Kg]	0	6.16
psSAR10g [W/Kg]	0	4.48
Power Drift [dB]	n/a	-0.01
TSL Correction	Positive only	Positive only
M2/M1 [%]		90.5
Dist 8dB Peak [mm]		> 15.0



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)	80	7	6.30
Full scan (area & zoom)	60	16	6.79

APPENDIX G

DUT Test Position Photos

Photos available in Exhibit 7B

APPENDIX H

DUT, Body worn and audio accessories Photos

Photos available in Exhibit 7B