

**MOTOROLA SOLUTIONS**

CERTIFICATE 2518.05

Exhibit 7B: SAR Test Report Photographs**Motorola Solutions Inc****EME Test Laboratory**

Motorola Solutions Malaysia Sdn Bhd

Plot 2A, Medan Bayan Lepas

Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.


Saw Sun Hock
(Approved Signatory)
Approval Date: 9/9/2021

Report Revision History

Date	Revision	Comments
9/6/2021	A	Initial release

1.0 Highest SAR Test Position per body location

1.1 Body

DUT with antenna PMAE4071A with offered battery PMNN4809A and body worn kit HLN6602A against the phantom without audio accessory attached. Same configurations offered to other batteries.

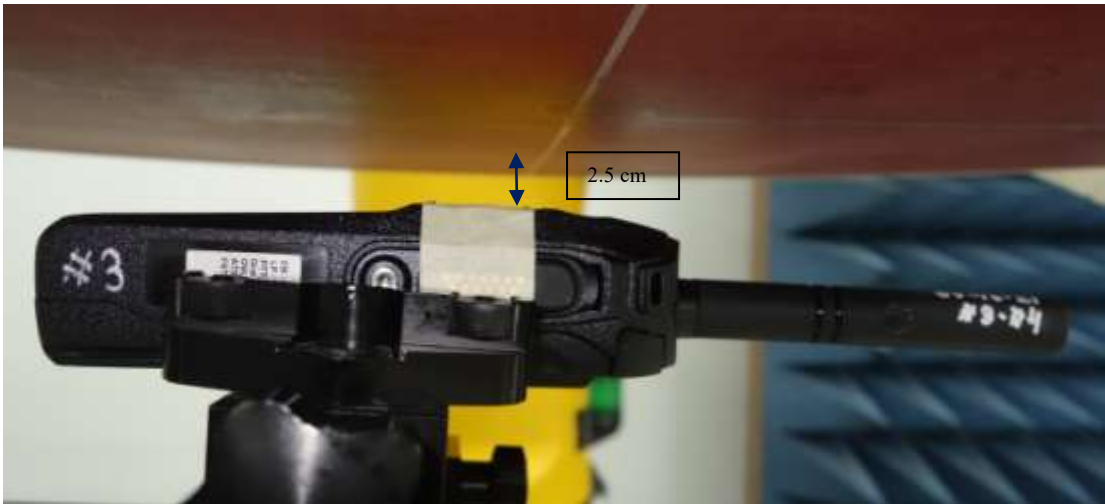


Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	0	19	25
PMAE4070A	0	*19-24	*25-28
PMAE4071A	0	*19-24	*25-28
PMAE4079A	0	19	20
AN000348A01	0	19	25
AN000350A01	0	19	22
AN000351A01	0	*19-24	*22-26

(*) Depending on applicable offered battery

1.2 Face

Back of DUT w/ antenna PMAE4070A with offered battery PMNN4809A separated 2.5cm from the phantom without an audio accessory attached.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	32	40	40
PMAE4070A	32	40	40
PMAE4071A	32	40	40
PMAE4079A	32	40	43
AN000348A01	32	40	40
AN000350A01	32	40	40
AN000351A01	32	40	40

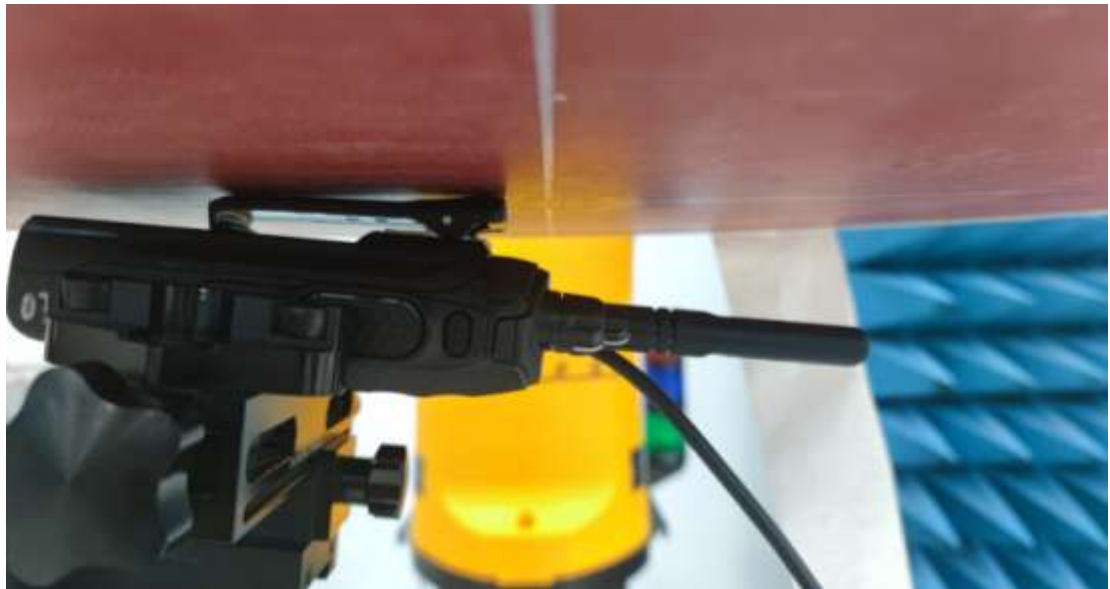
1.3 Head
Not applicable.

1.4 Hand
Not applicable

2.0 Other SAR tested positions at the body

2.1 Body worn

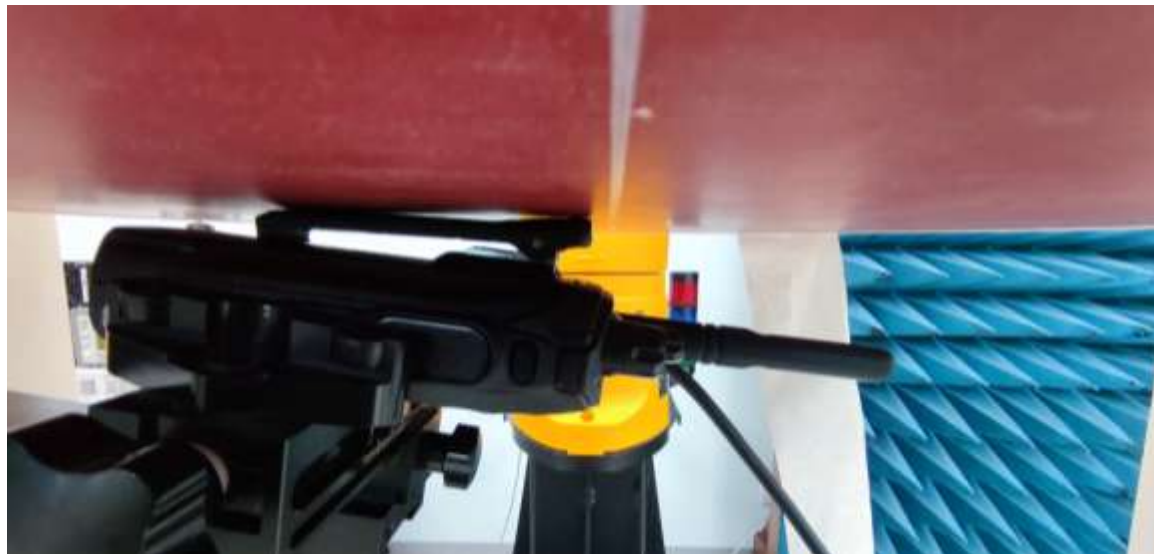
DUT with antenna PMAE4071A with offered battery PMNN4807A and body worn PMLN4651A against the phantom with an audio PMMN4128A accessory attached. Same configurations offered to other batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	7	28	38
PMAE4070A	7	*28-34	*35-47
PMAE4071A	7	*28-34	*35-47
PMAE4079A	7	28	47
AN000348A01	7	28	38
AN000350A01	7	28	35
AN000351A01	7	28	35

(*) Depending on applicable offered battery

DUT with antenna PMAE4071A with offered battery PMNN4809A and body worn PMLN7008A against the phantom with an audio PMMN4128A accessory attached. Same configurations offered to other batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	7	29	39
PMAE4070A	7	*29-34	*39-44
PMAE4071A	7	*29-34	*39-44
PMAE4079A	7	29	49
AN000348A01	7	29	39
AN000350A01	7	29	37
AN000351A01	7	29	37

(*) Depending on applicable offered battery

DUT with antenna PMAE4071A with offered battery PMNN4807A and body worn PMLN8302A w/o belt loop w/ NTN5243A against the phantom with an audio PMMN4128A accessory attached. Same configurations offered to other batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	0	38	52
PMAE4070A	0	38	52
PMAE4071A	0	*35-45	*52-63
PMAE4079A	0	38	105
AN000348A01	0	38	52
AN000350A01	0	38	47
AN000351A01	0	38	47

(*) Depending on applicable offered battery

DUT with antenna PMAE4070A with offered battery PMNN4809A and body worn PMLN8304A w/ NTN5243A against the phantom with an audio PMMN4128A accessory attached. Same configurations offered to other batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	0	56	84
PMAE4070A	0	*56-62	*84-91
PMAE4071A	0	56	84
PMAE4079A	0	56	105
AN000348A01	0	56	84
AN000350A01	0	56	75
AN000351A01	0	56	75

(*) Depending on applicable offered battery

DUT with antenna PMAE4071A with offered battery PMNN4809A and body worn PMLN8302A w/o belt loop w/ RLN6487A w/ RLN 6488A against the phantom with an audio PMMN4128A accessory attached. Same configurations offered to other batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	0	39	54
PMAE4070A	0	39	54
PMAE4071A	0	*39-47	*54-67
PMAE4079A	0	39	54
AN000348A01	0	39	54
AN000350A01	0	39	49
AN000351A01	0	39	49

(*) Depending on applicable offered battery

2.2 Front Side against phantom
Not applicable.

2.3 Back side against phantom
Not applicable.

2.4 Front 2.5cm separation
Not applicable

2.5 Antenna 2.5cm separation
Not applicable

2.6 Back 2.5cm separation
Not applicable

Other SAR tested positions at the face

2.7 Back of DUT at 2.5cm separation
Not applicable

2.8 Front of DUT at 2.5cm separation
Refer to section 1.2

3.0 Other SAR tested positions at the head

3.1 Left ear touch
Not applicable.

3.2 Left ear tilt
Not applicable.

3.3 Right ear touch
Not applicable.

3.4 Right ear tilt
Not applicable.

4.0 Other SAR tested positions at the hand

4.1 Left side
Not applicable.

4.2 Right side
Not applicable.

4.3 Top side
Not applicable.

4.4 Bottom side
Not applicable.

4.5 Back side
Not applicable.

5.0 DUT and Accessory Photos

The purpose of these photos is to illustrate the tested accessories. Refer to Part 1 of 2, section 7.0 for additional details on the offered accessories.

5.1 Antenna dimension and photo(s):

Antenna Kit #	Physical Length (mm)	Electrical Length
AN000348A01	90	$\frac{1}{4}$ wave
AN000350A01	60	$\frac{1}{4}$ wave
AN000351A01	60	$\frac{1}{4}$ wave
PMAE4069A	90	$\frac{1}{4}$ wave
PMAE4070A	90	$\frac{1}{4}$ wave
PMAE4071A	90	$\frac{1}{4}$ wave
PMAE4079A	150	$\frac{1}{4}$ wave



From bottom to top: AN000351A01, AN000350A01, AN000348A01, PMAE4070A, PMAE4071A, AN000389A01 and PMAE4079A

5.2 Body worn accessories



PMLN7008A
DUT Side View

PMLN7008A
DUT Back View



PMLN4651A
DUT Back View

PMLN4651A
DUT Side View



PMLN7008A



PMLN4651A



**PMLN8302A with NTN5243A
(Front view)**



**PMLN8302A with NTN5243A
(Side view)**



**PMLN8304A with NTN5243A
(Front View)**



**PMLN8304A with NTN5243A
(Side View)**



**PMLN8302A with RLN6487A
with RLN6488A (Front View)**



**PMLN8302A with RLN6487A
with RLN6488A (Side View)**



HLN6602A Chest pack

5.3 Battery accessories:



PMNN4810A



PMNN4809A



PMNN4808A



PMNN4807A

5.3 Audio accessories



PMMN4128A



**PMLN8297A with
PMLN8265A**



PMLN8337A



PMLN8343A



PMLN8295A



PMLN8086A

5.4 DUT Dimensions

	Height (mm)	Width (mm)	Depth (mm)
Radio only (w/o battery)	134	62.7	34.8
Radio with battery PMNN4807A	134	62.7	37.7
Radio with battery PMNN4808A	134	62.7	43.7
Radio with battery PMNN4809A	134	62.7	37.8
Radio with battery PMNN4810A	134	62.7	44.4

For illustration purposes only - the following figure reflects the location of the device's dimensions.



Note: H = Height; W = Width; D = Depth

$W1 = (\text{Width @ Top}) / (\text{Width @ PTT})$

$D2 = (\text{Depth @ Bottom}) / (\text{Depth @ PTT})$