

**MOTOROLA SOLUTIONS**

TESTING CERT # 2518.05

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

Motorola Solutions Malaysia Sdn Bhd (Innoplex)

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H92SDF9PW6AN
(PMUE5245A)



H92SDH9PW7AN
(PMUE5246A)

Tiong

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Approval Date: 7/13/2017

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Report Revision History

Date	Revision	Comments
7/12/2017	A	Initial release

1.0 Highest SAR Test Position per body location

1.1 Body

DUT with antenna PMAE4049A with offered battery NNTN8128B and body worn PMLN7008A against the phantom with an audio accessory HMN4104B w/RMN5116A attached. Same position used for the other applicable offered antenna, batteries and internal WLAN antenna (with and without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4102A	8	*28-32	*39-45
PMAE4049A	8	*28-32	*47-50

(*) Depending on applicable offered battery

1.2 Face

Front of DUT with antenna PMAE4049A with offered battery PMNN4493A separated 2.5cm from the phantom without an audio accessory attached. Same position used for other antenna, internal WLAN antenna and batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4102A	27	38	42
PMAE4049A	27	38	48

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 PMAE4049A with offered battery NNTN8128B, audio PMMN4062A and body worn PMLN4651A. Same position used for the other applicable offered antenna, batteries and internal WLAN antenna (with and without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4102A	6	*28-32	*37-42
PMAE4049A	6	*28-32	*45-50

(*) Depending on applicable offered battery

DUT with antenna PMAE4049A with offered battery PMNN4491B, audio PMMN4602A and body worn PMLN5838A. Same position used for the other applicable offered antenna, batteries and internal WLAN antenna (with and without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4102A	0	53	74
PMAE4049A	0	*53-58	*93-98

(*) Depending on applicable offered battery

DUT with antenna PMAE4049A with offered battery PMNN4491B, audio PMMN4062A and body worn PMLN5840A. Same position used for the other applicable offered antenna, batteries and internal WLAN antenna (with and without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4102A	7	68	90
PMAE4049A	7	*68-74	*118-123

(*) Depending on applicable offered battery

DUT with antenna PMAE4049A with offered battery PMNN4491B, audio PMMN4602A and body worn PMLN5842A. Same position used for the other applicable offered antenna, batteries and internal WLAN antenna (with and without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4102A	11	68	95
PMAE4049A	11	68	*118-120

(*) Depending on applicable offered battery

DUT with antenna PMAE4049A with offered battery NNTN8128B, audio PMMN4062A and body worn PMLN5844A. Same position used for the other applicable offered antenna, batteries and internal WLAN antenna (with and without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4102A	2	30	40
PMAE4049A	2	*30-33	*49-55

(*) 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

3.0 Other SAR tested positions at the face

3.1 Back of DUT at 2.5cm separation
Not applicable.

3.2 Front of DUT at 2.5cm separation
Refer to section 1.2.

4.0 Other SAR tested positions at the head

4.1 Left ear touch
Not applicable.

4.2 Left ear tilt
Not applicable.

4.3 Right ear touch
Not applicable.

4.4 Right ear tilt
Not applicable.

5.0 Other SAR tested positions at the hand

5.1 Left side
Not applicable.

5.2 Right side
Not applicable.

5.3 Top side
Not applicable.

5.4 Bottom side
Not applicable.

5.5 Back side
Not applicable

6.0 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.

6.1 Antenna dimension and photo(s):

Antenna Kit #	Physical Length (mm)	Electrical Length
PMAE4102A	90	$\frac{1}{4}$ wave
PMAE4049A	160	$\frac{1}{4}$ wave



Top to bottom: PMAE4049A, PMAE4102A

6.2 Body worn accessories



PMLN4651A (Side View)



PMLN4651A (Back View)



PMLN5838A (Front View)



PMLN5838A (Side View)



PMLN5838A (Back View)



PMLN5840A (front View)



PMLN5840A (Side View)



PMLN5840A (Back View)



PMLN5842A (front View)



PMLN5842A (Side View)



PMLN5842A (Back View)



PMLN5844A (front View)



PMLN5844A (Side View)



PMLN5844A (Back View)



PMLN7008A (Side View)



PMLN7008A (Back View)

6.3 Battery accessories:



NNTN8128B (front, side and back View)



PMNN4424A (front, side and back View)



PMNN4448A (front, side and back View)



PMNN4489A (front, side and back View)



PMNN4491B (front, side and back View)



PMNN4493A (front, side and back View)

6.4 Tested Audio accessories:



PMMN4062A



RLN5312B w/BDN6783B



PMLN5653A



PMLN5275C



HMN4104B w/RMN5116A



PMLN6123A



BDN6732A w/BDN6783B



PMLN5096B



PMLN6129A



PMLN5102A



ZMN6031A w/ NNTN7869B



ZMN6038A w/ NNTN7869B

6.5 DUT Dimensions

	Height (mm)	Width (mm)	Depth (mm)
Radio only (w/o battery)	130	65	33
Radio with battery PMNN4448A	130	65	45
Radio with battery PMNN4489A	130	65	45
Radio with battery PMNN4424A	130	65	45
Radio with battery PMNN4493A	130	65	45
Radio with battery NNTN8128B	130	65	39
Radio with battery PMNN4491B	130	65	39

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



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

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

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