

**MOTOROLA SOLUTIONS**

TESTING CERT # 2518.05

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

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Report Revision History

Date	Revision	Comments
12/04/2015	A	Initial release

1.0 Highest SAR Test Position per body location

1.1 Body

DUT with antenna PMAE4070A with offered battery PMNN4417BR and body worn RLN4570A against the phantom without an audio accessory attached. Same position used for other applicable offered antennas, batteries, with or without audio accessories and internal WLAN antenna (without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	0	27	26
PMAE4070A	0	*27-34	*26-36
PMAE4071A	0	*27-34	*26-36
PMAE4079A	0	26	20

(*) Depending on applicable offered battery

1.2 Face

Front of DUT with antenna PMAE4071A with offered battery PMNN4491A separated 2.5cm from the phantom without an audio accessory attached. Same position used for other antennas, internal WLAN antenna and batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	28	*30-31	*32-33
PMAE4070A	28	30	32
PMAE4071A	28	*30-31	*32-33
PMAE4079A	28	32	44

(*) Depending on applicable offered battery

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 PMNN4415A, audio PMMN5727A and body worn HLN6602A. Same position used for the other applicable offered antennas, batteries and internal WLAN antenna (without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	5	29	29
PMAE4070A	5	*29-32	*29-32
PMAE4071A	5	*29-32	*29-32
PMAE4079A	5	29	22

(*) Depending on applicable offered battery

DUT with antenna PMAE4070A with offered battery PMNN4491A, audio PMMN5727A and body worn RLN4815A. Same position used for the other applicable offered antennas, batteries and internal WLAN antenna (without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	13	46	50
PMAE4070A	13	*46-54	*50-58
PMAE4071A	13	46	50
PMAE4079A	13	46	49

(*) Depending on applicable offered battery

DUT with antenna PMAE4071A with offered battery PMNN4491A, audio PMMN5727A and body worn PMLN4651A. Same position used for the other applicable offered antennas, batteries and internal WLAN antenna (without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	8	37	45
PMAE4070A	8	37	45
PMAE4071A	8	*37-43	*45-51
PMAE4079A	8	37	52

(*) Depending on applicable offered battery

DUT with antenna PMAE4071A with offered battery PMNN4407BR, audio PMMN5727A and body worn PMLN7008A. Same position used for the other applicable offered antennas, batteries and internal WLAN antenna (without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	8	37	46
PMAE4070A	8	37	46
PMAE4071A	8	*37-42	*46-51
PMAE4079A	8	38	48

(*) Depending on applicable offered battery

DUT with antenna PMAE4071A with offered battery PMNN4488A, audio PMLN5727A and body worn PMLN7296A. Same position used for the other applicable offered antennas, internal WLAN antenna (without audio accessory attached). No optional battery offered with this body worn.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	8	44	53
PMAE4070A	8	44	53
PMAE4071A	8	44	53
PMAE4079A	8	44	59

DUT with antenna PMAE4071A with offered battery PMNN4417BR, audio PMLN5727A and body worn PMLN5864A w/NNTN5243A. Same position used for the other applicable offered antennas, batteries and internal WLAN antenna (without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	0	65	90
PMAE4070A	0	65	90
PMAE4071A	0	*62-66	*90-95
PMAE4079A	0	65	113

(*) Depending on applicable offered battery

DUT with antenna PMAE4071A with offered battery PMNN4491A, audio PMLN5727A and body worn PMLN5866A w/NNTN5243A (without belt loop). Same position used for the other applicable offered antennas, batteries and internal WLAN antenna (without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	0	53	73
PMAE4070A	0	53	73
PMAE4071A	0	*53-58	*73-78
PMAE4079A	0	54	93

(*) Depending on applicable offered battery

DUT with antenna PMAE4071A with offered battery PMNN4407BR, audio PMLN5727A and body worn PMLN5870A w/NNTN5243A. Same position used for the other applicable offered antennas, batteries and internal WLAN antenna (without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	3	45	58
PMAE4070A	3	45	58
PMAE4071A	3	*45-51	*58-65
PMAE4079A	3	49	79

(*) Depending on applicable offered battery

DUT with antenna PMAE4071A with offered battery PMNN4407BR, audio PMLN5727A and body worn PMLN5870A w/RLN6487A & RLN6488A. Same position used for the other applicable offered antennas, batteries and internal WLAN antenna (without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	3	45	58
PMAE4070A	3	45	58
PMAE4071A	3	*45-54	*58-66
PMAE4079A	3	49	79

(*) 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
PMAE4069A	90	$\frac{1}{4}$ wave
PMAE4070A	90	$\frac{1}{4}$ wave
PMAE4071A	90	$\frac{1}{4}$ wave
PMAE4079A	150	$\frac{1}{4}$ wave



Top to bottom: PMAE4070A, PMAE4071A, PMAE4069A, and PMAE4079A

6.2 Body worn accessories



HLN6602A



RLN4570A



RLN4815A



NTN5243A

(Tested with PMLN5864A, PMLN5866A, PMLN5870A)



PMLN4651A
(Side view)

PMLN4651A
(Back view)



PMLN7008A
(Side view)

PMLN7008A
(Back view)



PMLN7296A
(Side view)

PMLN7296A
(Back view)



PMLN5866A
(Front view)

PMLN5866A
(Side view)

PMLN5866A
(Back view)



PMLN5864A
(Front view)

PMLN5864A
(Side view)

PMLN5864A
(Back view)



PMLN5870A
(Front view)

PMLN5870A
(Side view)

PMLN5870A
(Back view)



RLN6487A & RLN6488A
(Tested with PMLN5870A)

6.3 Battery accessories:



Left to Right: PMNN4415A, PMNN4491A, PMNN4416BR, PMNN4417BR
PMNN4406BR, PMNN4407BR (Front view and Side view)



Left to Right: PMNN4493A, PMNN4418BR, PMNN4490A, PMNN4435AR, PMNN4463A, PMNN4409BR (Front view and Side view)



PMNN4488A battery with vibrator (back, front, side view)

6.4 Tested Audio accessories:



PMLN5727A



PMMN4073A w/RLN4885B



PMMN4071A w/RLN4885B



PMMN4075A



PMLN5724A



PMLN7269A



PMLN6754A



PMLN6757A



PMLN5732A



PMLN6761A



PMLN5731A



PMLN6635A



PMLN6759A



PMLN6760A



PMLN6763A

6.5 DUT Dimensions

	Height (mm)	Width (mm)	Depth (mm)
Radio only (w/o battery)	121	61	36
Radio with battery PMNN4491A	121	61	43
Radio with battery PMNN4407BR	121	61	43
Radio with battery PMNN4416BR	121	61	43
Radio with battery PMNN4417BR	121	61	43
Radio with battery PMNN4406BR	121	61	43
Radio with battery PMNN4415A	121	61	46
Radio with battery PMNN4435AR	121	61	48
Radio with battery PMNN4493A	121	61	48
Radio with battery PMNN4490A	121	61	48
Radio with battery PMNN4418BR	121	61	48
Radio with battery PMNN4488A	121	61	48
Radio with battery PMNN4409BR	121	61	48
Radio with battery PMNN4463A	121	61	48

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



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

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

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