

**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
12/14/2015	A	Initial release

1.0 Highest SAR Test Position per body location

1.1 Body

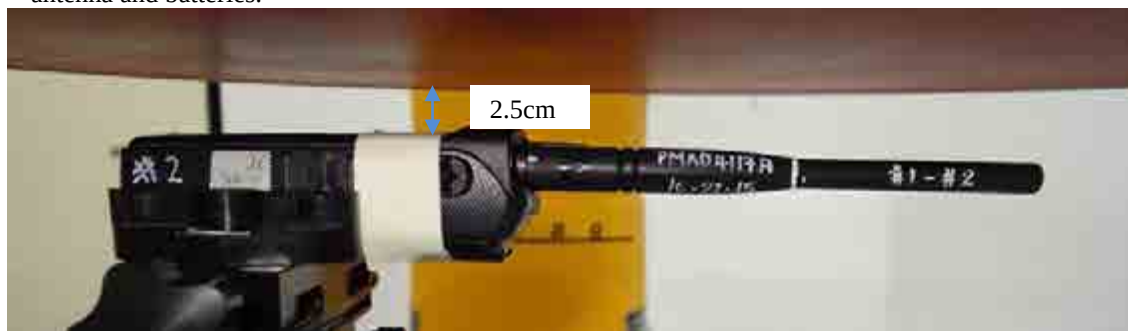
DUT with antenna PMAD4118A with offered battery PMNN4488A and body worn PMLN7296A against the phantom without an audio accessory attached. Same position used for other applicable offered antennas, internal WLAN antenna and with or without audio accessories (see table below).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4116A	8	45	60
PMAD4117A	8	45	60
PMAD4118A	8	45	60
PMAD4119A	8	45	50
PMAD4120A	8	45	50
PMAD4121B	8	45	50

1.2 Face

Front of DUT with antenna PMAD4117A with offered battery PMNN4416BR 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
PMAD4116A	35	*29-31	33
PMAD4117A	*30-35	*29-31	*33-35
PMAD4118A	35	29	33
PMAD4119A	*30-35	*29-31	*33-35
PMAD4120A	*30-35	*29-31	*33-35
PMAD4121B	35	29	30

(*) 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 PMAD4118A with offered battery PMNN4407BR, audio PMLN5727A and body worn PMLN4651A. Same position used for the other applicable offered antennas, internal WLAN antenna and batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4116A	8	37	55
PMAD4117A	8	37	55
PMAD4118A	*7-8	*37-42	*55-60
PMAD4120A	8	37	47
PMAD4121B	8	37	47

(*) Depending on applicable offered battery

DUT with antenna PMAD4118A with offered battery PMNN4416BR, audio PMLN5727A and body worn PMLN7008A. Same position used for the other applicable offered antennas, internal WLAN antenna and batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4116A	8	37	57
PMAD4117A	8	37	57
PMAD4118A	*7-8	*37-42	*57-60
PMAD4120A	7	37	45
PMAD4121B	7	37	45

(*) Depending on applicable offered battery

DUT with antenna PMAD4118A with offered battery PMNN4417BR, audio PMLN5727A and body worn HLN6602A. Same position used for the other applicable offered antennas, internal WLAN antenna.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4116A	4	28	24
PMAD4117A	4	28	24
PMAD4118A	*4-7	*28-34	*24-27
PMAD4120A	4	28	23
PMAD4121B	4	28	23

(*) Depending on applicable offered battery

DUT with antenna PMAD4118A with offered battery PMNN4407BR, audio PMLN5727A and body worn RLN4570A. Same position used for the other applicable offered antennas, internal WLAN antenna and batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4116A	0	28	24
PMAD4117A	0	28	24
PMAD4118A	0	*28-33	*24-26
PMAD4120A	0	28	27
PMAD4121B	0	28	27

(*) Depending on applicable offered battery

DUT with antenna PMAD4118A with offered battery PMNN4493A, audio PMLN5727A and body worn RLN4815A. Same position used for the other applicable offered antennas, internal WLAN antenna and batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4116A	8	46	61
PMAD4117A	8	46	61
PMAD4118A	*8-13	*46-50	*50-62
PMAD4120A	8	46	50
PMAD4121B	8	46	50

(*) Depending on applicable offered battery

DUT with antenna PMAD4118A with offered battery PMNN4488A, PMLN5727A and body worn PMLN7296A. Same position used for the other applicable offered antennas, internal WLAN antenna and batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4116A	8	45	60
PMAD4117A	8	45	60
PMAD4118A	8	45	60
PMAD4119A	8	45	50
PMAD4120A	8	45	50
PMAD4121B	8	45	50

DUT with antenna PMAD4116A with offered battery PMNN4417BR, audio PMLN5727A and bodyworn PMLN5864A with carry strap NTN5243A. Same position used for the other applicable offered antennas, internal WLAN antenna and batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4116A	0	*62-65	*115-120
PMAD4117A	0	62	115
PMAD4118A	0	62	115
PMAD4120A	0	62	90
PMAD4121B	0	62	90

(*) Depending on applicable offered battery

DUT with antenna PMAD4118A with offered battery PMNN4418BR, audio PMLN5727A and body worn PMLN5866A with carry strap NTN5243A. Same position used for the other applicable offered antennas, internal WLAN antenna and batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4116A	0	52	87
PMAD4117A	0	52	87
PMAD4118A	0	*52-59	*87-95
PMAD4120A	0	55	72
PMAD4121B	0	55	72

(*) Depending on applicable offered battery

DUT with antenna PMAD4118A with offered battery PMNN4493A, audio PMLN5727A and body worn PMLN5870A with carry strap NTN5243A. Same position used for the other applicable offered antennas, internal WLAN antenna and batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4116A	3	43	62
PMAD4117A	3	43	62
PMAD4118A	3	*43-47	*62-68
PMAD4120A	3	43	55
PMAD4121B	3	43	55

(*) Depending on applicable offered battery

DUT with antenna PMAD4116A with offered battery PMNN4493A, audio PMLN5727A and bodyworn PMLN5870A with fireman strap RLN6486A and RLN6488A. Same position used for the other applicable offered antennas, internal WLAN antenna and batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4116A	3	*43-47	*62-68
PMAD4117A	3	43	62
PMAD4118A	3	43	62
PMAD4120A	3	43	55
PMAD4121B	3	43	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
PMAD4116A	150	$\frac{1}{2}$ wave
PMAD4117A	150	$\frac{1}{2}$ wave
PMAD4118A	150	$\frac{1}{2}$ wave
PMAD4119A	90	$\frac{1}{4}$ wave
PMAD4120A	90	$\frac{1}{4}$ wave
PMAD4121B	90	$\frac{1}{4}$ wave



Top to bottom: PMAD4116A, PMAD4117A, PMAD4118A, PMAD4119A, PMAD4120A and PMAD4121B

6.2 Body worn accessories



Chest pack HLN6602A



Break A-Way Chest pack RLN4570A



Radio pack RLN4815A



Carry Strap NTN5243A
(Tested with PMLN5864A, PMLN5866A, PMLN5870A)



Belt clip PMLN4651A
(Side view)



Belt clip PMLN4651A
(Back view)



Belt clip PMLN7008A
(Side view)



Belt clip PMLN7008A
(Back view)



**Vibrating Belt clip
PMLN7296A**
(Side view)



**Vibrating Belt clip
PMLN7296A**
(Back view)



**Hard leather carry
case PMLN5864A**
(Back view)



**Hard leather
carry case
PMLN5864A**
(Front view)



**Hard leather carry
case PMLN5864A**
(Side view)



Hard leather carry case PMLN5866A
(Back view)



Hard leather carry case PMLN5866A
(Front view)



Hard leather carry case PMLN5866A
(Side view)



Nylon carry case PMLN5869A
(Back view)



Nylon carry case PMLN5869A
(Front view)



Nylon carry case PMLN5869A
(Side view)



**Leather Radio strap
RLN6486A**

**Anti Sway strap
RLN6488A**

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:



PMLN5725A
Earpiece InLine
Mic/PTT, Swl, MagOne

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 PMNN4406BR	121	61	43
Radio with battery PMNN4407BR	121	61	43
Radio with battery PMNN4409BR	121	61	48
Radio with battery PMNN4415A	121	61	46
Radio with battery PMNN4416BR	121	61	43
Radio with battery PMNN4417BR	121	61	43
Radio with battery PMNN4418BR	121	61	48
Radio with battery PMNN4435AR	121	61	48
Radio with battery PMNN4463A	121	61	48
Radio with battery PMNN4490A	121	61	48
Radio with battery PMNN4493A	121	61	48
Radio with battery PMNN4488A	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

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

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