

**MOTOROLA SOLUTIONS**

TESTING CERT # 2518.05

Exhibit 7B: SAR Test Report Photographs

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Approval Date: 1/11/2016

Report Revision History

Date	Revision	Comments
12/15/2015	A	Initial release

1.0 Highest SAR Test Position per body location

1.1 Body

DUT with antenna PMAF4010A with offered battery PMNN4407BR and body worn kit HLN6602A against the phantom with an audio PMLN5102A. Same position used for the 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
PMAF4009A	*5-6	*18-23	*18-19
PMAF4011A	5	19	19
PMAF4010A	*6-7	*20-25	*20-27
PMAF4012A	*6-7	*20-25	*20-27

(*) Depending on applicable offered battery

1.2 Face

Front of DUT with antenna PMAF4010A with offered battery PMNN4435A separated 2.5cm from the phantom without an audio accessory attached. Same position used for the other antennas, internal WLAN antenna and batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAF4009A	*29-32	37	45
PMAF4011A	32	38	*42-45
PMAF4010A	32	38	42
PMAF4012A	32	38	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 PMAF4012A with offered battery PMNN4491A, audio PMMN4024A and body worn kit RLN4570A. 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
PMAF4009A	0	*18-21	*21-24
PMAF4011A	0	18	21
PMAF4010A	0	*18-24	*21-25
PMAF4012A	0	*18-22	*20-24

(*) Depending on applicable offered battery

DUT with antenna PMAF4012A with offered battery PMNN4406BR, audio PMMN4024A and body worn kit 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
PMAF4009A	*12-15	*34-40	*38-42
PMAF4011A	12	34	43
PMAF4010A	12	*34-40	*38-45
PMAF4012A	*12-15	*34-39	*40-45

(*) Depending on applicable offered battery

DUT with antenna PMAF4010A with offered battery PMNN4491A, audio PMMN4024A and body worn kit 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
PMAF4009A	*7-8	*30-35	*42-48
PMAF4011A	8	29	54
PMAF4010A	*7-8	*30-35	*43-50
PMAF4012A	*7-8	*30-35	*43-52

(*) Depending on applicable offered battery

DUT with antenna PMAF4010A with offered battery PMNN4406BR, audio PMMN4024A and body worn kit 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
PMAF4009A	*7-8	*30-34	*42-46
PMAF4011A	7	30	52
PMAF4010A	7	*29-34	*42-46
PMAF4012A	7	*29-34	*45-52

(*) Depending on applicable offered battery

DUT with antenna PMAF4010A with offered battery PMNN4488A, audio PMMN4024A 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
PMAF4009A	8	35	47
PMAF4011A	8	35	58
PMAF4010A	9	35	47
PMAF4012A	9	35	51

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
Not applicable

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
PMAF4009A	120	$\frac{1}{4}$ wave
PMAF4010A	110.5	$\frac{1}{4}$ wave
PMAF4011A	160.5	$\frac{1}{2}$ wave
PMAF4012A	140.5	$\frac{1}{2}$ wave



Top to Bottom: PMAF4009A, PMAF4010A , PMAF4011A , PMAF4012A

6.2 Body worn accessories



PMLN7008A
(Back view)



PMLN7008A
(Side view)



PMLN4651A
(Back view)



PMLN4651A
(Side view)



PMLN7296A
(Back view)



PMLN7296A
(Side view)



RLN4570A



HLN6602A



RLN4815A

6.3 Battery accessories:



PMNN4493A
Front and Side View



PMNN4409BR
Front and Side View



PMNN4412AR
Front and Side View



PMNN4406BR
Front and Side View



PMNN4407BR
Front and Side View



NNTN8560A
Front and Side View



PMNN4448AR
Front and Side View



PMNN4435A
Front and Side View



NNTN8129AR
Front and Side View



PMNN4491A
Front and Side View



PMNN4489A
Front and Side View



PMNN4463A
Front and Side View



PMNN4488A
Front, Back, and Side View

6.4 Audio accessories:



PMMN4024A



PMMN4040A



PMMN4050A tested w/
RMN4055B



NNTN8383B tested w/
RMN4056B



RMN5058A



PMLN5101A



PMLN5102A



PMLN5096B



PMLN5973A



PMLN5975A



PMLN6833A tested w/
PMLN6765A and
PMLN6767A



PMLN5275C



RMN5137A



NNTN8459A



PMLN6125A



PMLN6127A



PMLN6095A tested w/
RMN4053B



PMLN6129A



PMLN6123A



PMLN5097A



PMLN6853A

6.5 DUT Dimensions

	Height (mm)	Width (mm)	Depth (mm)
Radio only (w/o battery)	134	65	33
Radio with battery PMNN4493A	134	65	45
Radio with battery PMNN4409BR	134	65	45
Radio with battery PMNN4412AR	134	65	45
Radio with battery PMNN4406BR	134	65	39
Radio with battery PMNN4407BR	134	65	39
Radio with battery NNTN8560A	134	65	45
Radio with battery PMNN4448AR	134	65	45
Radio with battery PMNN4435A	134	65	45
Radio with battery NNTN8129AR	134	65	45
Radio with battery PMNN4491A	134	65	39
Radio with battery PMNN4489A	134	65	45
Radio with battery PMNN4463A	134	65	45
Radio with battery PMNN4488A	134	65	45

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



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

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

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