

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

Motorola Solutions Malaysia Sdn Bhd

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Report Revision History

Date	Revision	Comments
12/12/2019	A	Initial release

1.0 Highest SAR Test Position per body location

1.1 Body

DUT with antenna PMAD4118A, offered battery PMNN4544A and body worn PMLN4651A positioned against the phantom with an audio accessory PMLN5727A attached.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAD4116A	8	36	54
PMAD4117A	8	36	54
PMAD4118A	8	36-42*	54-59*
PMAD4120A	8	36	45
PMAD4121B	8	36	45

(*) Depending on applicable offered battery

1.2 Face

Front of DUT with antenna PMAD4116A and offered battery PMNN4406B separated 2.5cm from the phantom without an audio accessory attached.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAD4116A	29	31	34
PMAD4117A	29	31	34
PMAD4118A	29	31	34
PMAD4120A	29	31	34
PMAD4121B	29	31	34

2.0 Other SAR tested positions at the body

2.1 Positions for each offered Body worn

DUT with antenna PMAD4118A, offered battery PMNN4488A, audio PMLN5727A and body worn PMLN7296A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAD4116A	9	43	60
PMAD4117A	9	43	60
PMAD4118A	9	43	60
PMAD4120A	9	43	53
PMAD4121B	9	43	53

DUT with antenna PMAD4118A, offered battery PMNN4406B, audio PMLN5727A and body worn PMLN7008A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAD4116A	7	37	56
PMAD4117A	7	37	56
PMAD4118A	7	37-43*	56-61*
PMAD4120A	7	37	45
PMAD4121B	7	37	45

(*) Depending on applicable offered battery

DUT with antenna PMAD4118A, offered battery PMNN4463A, audio PMMN5727A and body worn PMLN5870A w/ NTN5243A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAD4116A	2	41	63
PMAD4117A	2	41	63
PMAD4118A	2	41-47*	63-70*
PMAD4120A	2	41	52
PMAD4121B	2	41	52

(*) Depending on applicable offered battery

DUT with antenna PMAD4118A, offered battery PMNN4525A, audio PMMN5727A and body worn PMLN5864A w/ NTN5243A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAD4116A	0	62	112
PMAD4117A	0	62	112
PMAD4118A	0	62-65*	112-115*
PMAD4120A	0	62	87
PMAD4121B	0	62	87

(*) Depending on applicable offered battery

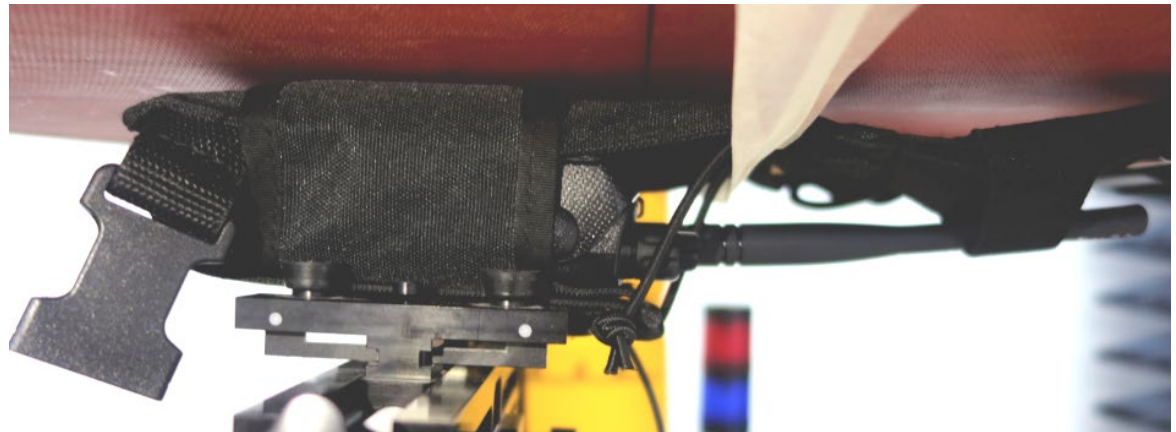
DUT with antenna PMAD4118A, offered battery PMNN4418B, audio PMMN5727A and body worn PMLN5866A w/ NTN5243A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAD4116A	0	53	89
PMAD4117A	0	53	89
PMAD4118A	0	53-59*	89-102*
PMAD4120A	0	53	75
PMAD4121B	0	53	75

(*) Depending on applicable offered battery

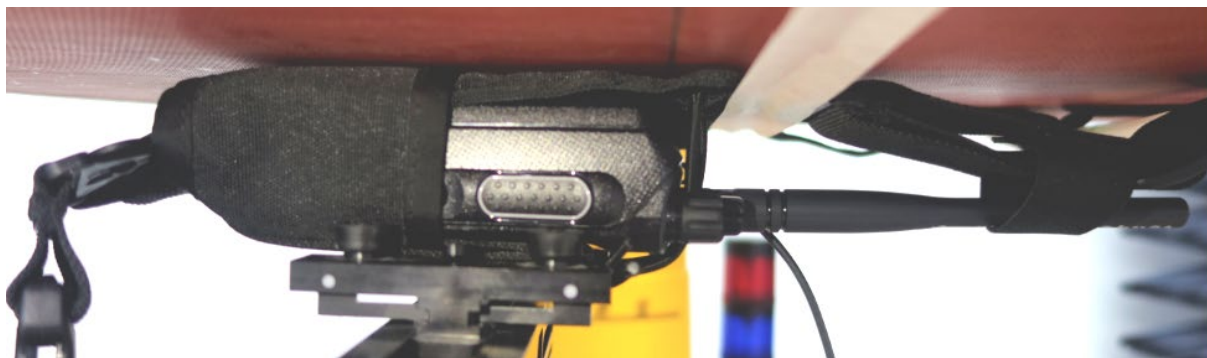
DUT with antenna PMAD4118A, offered battery PMNN4406B, audio PMMN5727A and body worn HLN6602A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAD4116A	8	29	29
PMAD4117A	8	29	29
PMAD4118A	8-10*	29-33*	29-32*
PMAD4120A	8	29	30
PMAD4121B	8	29	30

(*) Depending on applicable offered battery

DUT with antenna PMAD4118A, offered battery PMNN4491B, audio PMMN5727A and body worn RLN4570A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAD4116A	0	26	25
PMAD4117A	0	26	25
PMAD4118A	0	26-29*	25-32*
PMAD4120A	0	26	27
PMAD4121B	0	26	27

(*) Depending on applicable offered battery

DUT with antenna PMAD4118A, offered battery PMNN4415A, audio PMMN5727A and body worn RLN4815A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAD4116A	21	47	55
PMAD4117A	21	47	55
PMAD4118A	21-25*	47-49*	55-57*
PMAD4120A	21	47	53
PMAD4121B	21	47	53

(*) Depending on applicable offered battery

DUT with antenna PMAD4118A, offered battery PMNN4493A, audio PMMN5727A and body worn PMLN5870A w/ RLN6487A w/ RLN6488A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAD4116A	3	46	64
PMAD4117A	3	46	64
PMAD4118A	3	46-50*	64-72*
PMAD4120A	3	46	56
PMAD4121B	3	46	56

(*) Depending on applicable offered battery

3.0 Other SAR tested positions at the face

3.1 Back of DUT at 2.5cm separation

N/A

3.2 Front of DUT at 2.5cm separation

Refer to section 1.2

4.0 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.

4.1 Antenna dimension and photo(s):

Antenna Kit #	Physical Length (mm)	Electrical Length
PMAD4119A	90	$\frac{1}{4}$ wave
PMAD4120A	90	$\frac{1}{4}$ wave
PMAD4121B	90	$\frac{1}{4}$ wave
PMAD4116A	150	$\frac{1}{2}$ wave
PMAD4117A	150	$\frac{1}{2}$ wave
PMAD4118A	150	$\frac{1}{2}$ wave



Left to Right: PMAE4119A, PMAE4120A, PMAE4121B, PMAE4116A, PMAE4118A, PMAE4117A

4.2 Body worn accessories



HLN6602A



RLN4570A



PMLN4651A (back & side view)



PMLN7296A (back & side view)



RLN6487A & RLN6488A
(Tested with PMLN5870A)



NTN5243A
(Tested with PMLN5864A, PMLN5866A, PMLN5870A)



PMLN7008A (back & side view)



RLN4815A



PMLN5866A
(Side, front & back view)



PMLN5864A
(Side, front & back view)



PMLN5870A
(Side, front & back view)

4.3 Battery accessories



PMNN4406B
(Front, side & back view)



PMNN4407B
(Front, side & back view)



PMNN4409B
(Front, side & back view)



PMNN4415A
(Front, side & back view)



PMNN4416B
(Front, side & back view)



PMNN4417B
(Front, side & back view)



PMNN4418B
(Front, side & back view)



PMNN4435A
(Front, side & back view)



PMNN4463A
(Front, side & back view)



PMNN4488A
(Front, side & back view)



PMNN4490A
(Front, side & back view)



PMNN4491B
(Front, side & back view)



PMNN4493A
(Front, side & back view)



PMNN4525A
(Front, side & back view)



PMNN4543A
(Front, side & back view)



PMNN4544A
(Front, side & back view)

4.4 Audio Accessories



PMLN5727A

4.5 DUT Dimensions

	Height (mm)	Width (mm)	Depth (mm)
Radio only (w/o battery)	122	59	31
Radio with battery PMNN4406B	122	59	40
Radio with battery PMNN4407B	122	59	40
Radio with battery PMNN4409B	122	59	45
Radio with battery PMNN4415A	122	59	43
Radio with battery PMNN4416B	122	59	40
Radio with battery PMNN4417B	122	59	40
Radio with battery PMNN4418B	122	59	45
Radio with battery PMNN4435A	122	59	45
Radio with battery PMNN4463A	122	59	45
Radio with battery PMNN4488A	122	59	45
Radio with battery PMNN4490A	122	59	45
Radio with battery PMNN4491B	122	59	40
Radio with battery PMNN4493A	122	59	45
Radio with battery PMNN4525A	122	59	45
Radio with battery PMNN4543A	122	59	45
Radio with battery PMNN4544A	122	59	45

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



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

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

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