

**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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H92KDF9PW6AN
(PMUD3431A)



H92KDH9PW7AN
(PMUD3432A)

Tiong

Tiong Nguk Ing
Deputy Technical Manager
Approval Date: 1/26/2017

Report Revision History

| Date | Revision | Comments |
|-------------|-----------------|-----------------|
| 1/6/2017 | A | Initial release |

1.0 Highest SAR Test Position per body location

1.1 Body

DUT with antenna PMAD4088B with offered battery PMNN4489A and body worn PMLN7008A against the phantom without an audio accessory attached. 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 |
| PMAD4088B | 8 | *28-33 | *55-60 |
| **PMAD4093A | 8 | 33 | 45 |
| PMAD4094A | 8 | *28-33 | *40-45 |
| PMAD4095A | 8 | 28 | 40 |

(*) Depending on applicable offered battery

(**) Antenna not applicable for FCC as frequency range outside FCC authorized spectrum.

1.2 Face

Front of DUT with antenna PMAD4095A with offered battery PMNN4491A 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 |
| PMAD4088B | 26 | 37 | 50 |
| **PMAD4093A | 25 | 36 | 40 |
| PMAD4094A | 26 | 37 | 42 |
| PMAD4095A | 26 | 37 | 42 |

(**) Antenna not applicable for FCC as frequency range outside FCC authorized spectrum.

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 PMAD4088B with offered battery PMNN4489A, audio PMMN4062A 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 |
| PMAD4088B | 8 | *28-33 | *55-60 |
| PMAD4094A | 8 | 28 | 40 |
| PMAD4095A | 8 | 28 | 40 |

(*) Depending on applicable offered battery

DUT with antenna PMAD4088B with offered battery PMNN4424A, audio PMMN4602A and body worn PMLN5838A. 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 |
| PMAD4088B | 0 | *50-52 | *110-112 |
| PMAD4094A | 0 | 50 | 76 |
| PMAD4095A | 0 | 50 | 76 |

(*) Depending on applicable offered battery

DUT with antenna PMAD4088B with offered battery NNTN8128B, audio PMMN4062A and body worn PMLN5840A. 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 |
| PMAD4088B | 8 | *60-65 | *120-122 |
| PMAD4094A | 8 | 60 | 90 |
| PMAD4095A | 8 | 60 | 90 |

(*) Depending on applicable offered battery

DUT with antenna PMAD4088B with offered battery NNTN8128B, audio PMMN4602A and body worn PMLN5842A. 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 |
| PMAD4088B | 8 | *70-75 | 140 |
| PMAD4094A | 8 | 70 | 100 |
| PMAD4095A | 8 | 70 | 100 |

(*) Depending on applicable offered battery

DUT with antenna PMAD4088B with offered battery NNTN8128B, audio PMMN4062A and body worn PMLN5844A. 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 |
| PMAD4088B | 4 | *30-35 | *50-55 |
| PMAD4094A | 4 | 30 | 40 |
| PMAD4095A | 4 | 30 | 40 |

(*) 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 |
|---------------|----------------------|-------------------|
| PMAD4088B | 210 | ¼ wave |
| PMAD4095A | 110 | ¼ wave |
| PMAD4094A | 110 | ¼ wave |
| PMAD4093A | 110 | ¼ wave |



Top to bottom: PMAD4088B, PMAD4095A, PMAD4094A, PMAD4093A

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)****PMNN4491A (front, side and back View)****PMNN4493A (front, side and back View)**

6.4 Tested Audio accessories:



PMMN4062A

6.5 DUT Dimensions

| | Height (mm) | Width (mm) | Depth (mm) |
|------------------------------|----------------|---------------|---------------|
| Radio only (w/o battery) | 130 | 65 | 33 |
| Radio with battery NNTN8128B | 130 | 65 | 39 |
| Radio with battery PMNN4491A | 130 | 65 | 39 |
| Radio with battery PMNN4424A | 130 | 65 | 45 |
| Radio with battery PMNN4448A | 130 | 65 | 45 |
| Radio with battery PMNN4489A | 130 | 65 | 45 |
| Radio with battery PMNN4493A | 130 | 65 | 45 |

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



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

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

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