



**MOTOROLA**



TESTING CERT # 2518.01

**Exhibit 7B: SAR Test Report Photographs**

**Enterprise Mobility Solutions**  
EME Test Laboratory  
8000 West Sunrise Blvd  
Fort Lauderdale, FL. 33322



*Signature on file*  
**Deanna Zakharia**  
EMS EME Lab Senior Resource Manager,  
Laboratory Director

**Approval Date:** 10/01/09

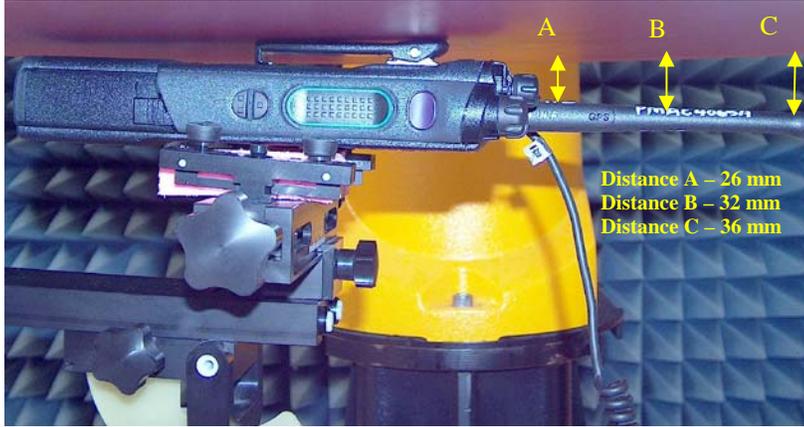
## Exhibit 7B Revision History

Date	Revision	Comments
07/08/09	O	Initial release
08/14/09	A	Section 2.7 was added to include PSM Testing
10/01/09	B	Added photo of RSM PMMN4024A in section 6.5

**1.0 Highest SAR Test Position per body location**

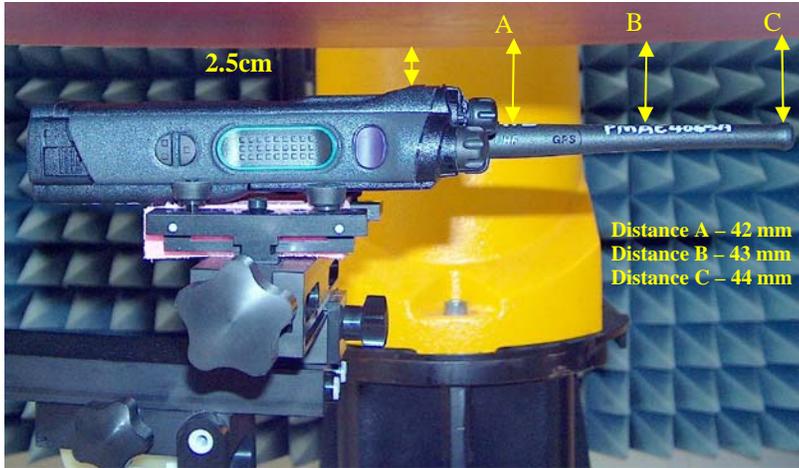
**1.1 Body**

DUT w/ audio cable RMN5058A, battery (long) NNTN7037A, belt clip NTN8266B against the phantom with antenna PMAE4065A.



**1.2 Face**

DUT w/ back side separated 2.5cm from phantom with battery (short) NNTN7038A antenna PMAE4065A.



**1.3 Head**  
**Not applicable.**

**1.4 Hand**  
**Not applicable.**

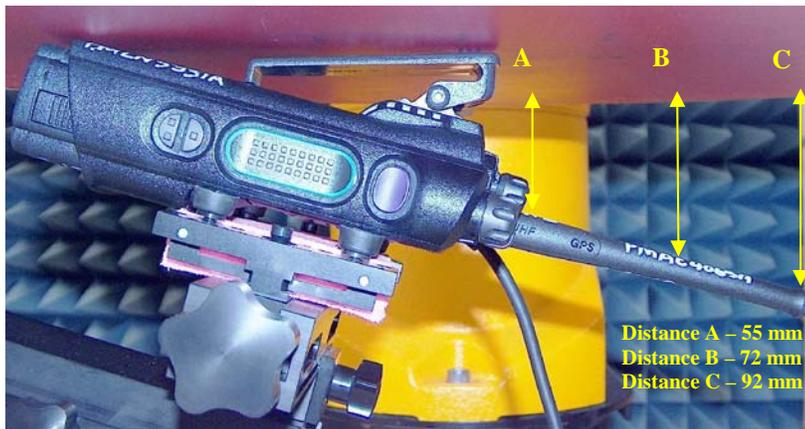
2.0 Other SAR tested positions at the body

2.1 Body worn

DUT w/ audio cable PMMN4024A, battery (short) NNTN7038A, holster PMLN5331A with belt clip NTN8266B against the phantom with antenna PMAE4065A (Similar position for long battery and optional antenna).



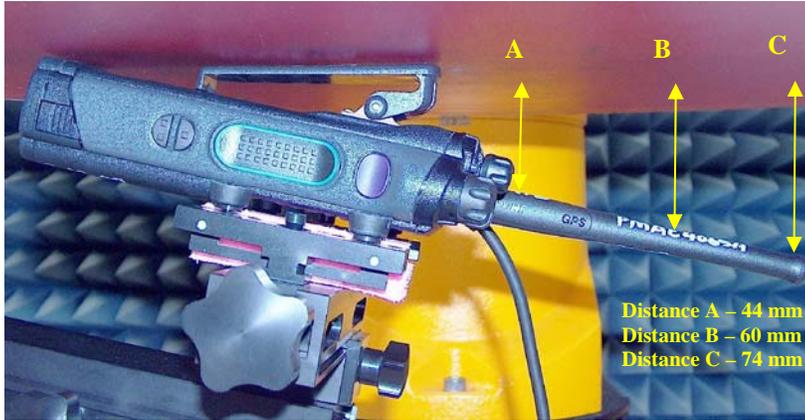
DUT w/ audio cable PMMN4024A, battery (short) NNTN7038A, holster PMLN5331A with belt clip HLN6875A against the phantom with antenna PMAE4065A (Similar position for long battery and optional antenna).



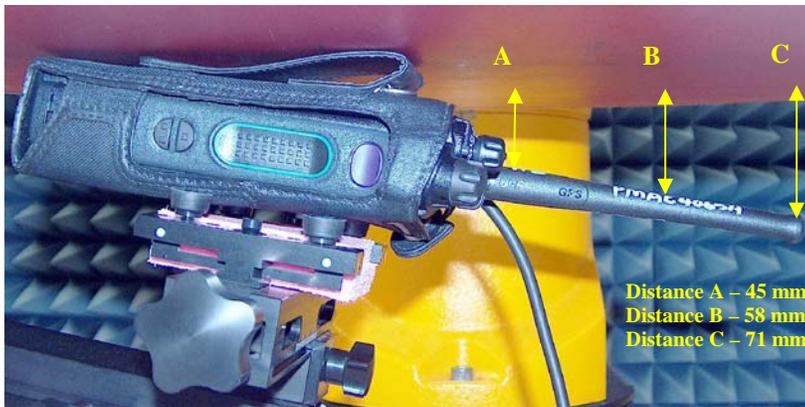
DUT w/ audio cable PMMN4024A, battery (short) NNTN7038A with belt clip NTN8266B against the phantom with antenna PMAE4065A (Similar position for long battery and optional antenna).



DUT w/ audio cable PMMN4024A, battery (short) NNTN7038A with belt clip HLN6875A against the phantom with antenna PMAE4065A (Similar position for long battery and optional antenna).



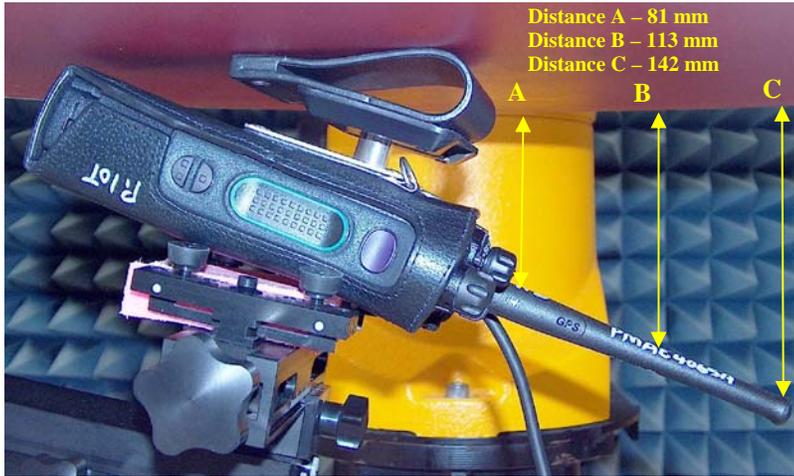
DUT w/ audio cable PMMN4024A, battery (short) NNTN7038A with nylon case PMLN5322A against the phantom with antenna PMAE4065A (Similar position for long battery and optional antenna).



DUT w/ audio cable PMMN4024A, battery (short) NNTN7038A with leather case PMLN5323A against the phantom with antenna PMAE4065A (Similar position for long battery and optional antenna).



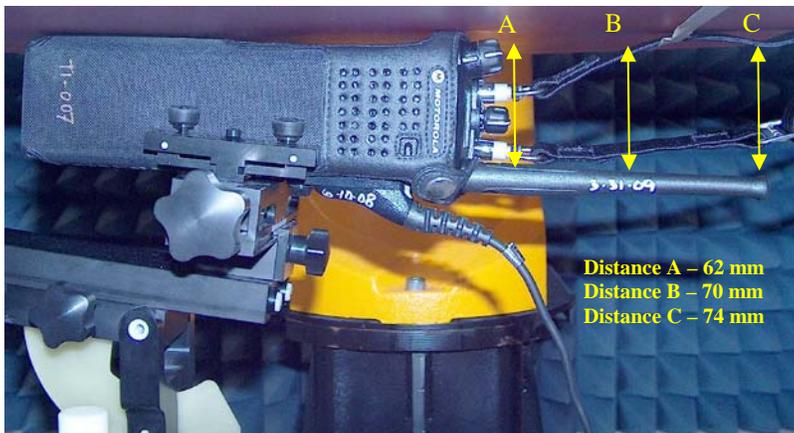
DUT w/ audio cable PMMN4024A, battery (short) NNTN7038A with leather case PMLN5324A against the phantom with antenna PMAE4065A (Similar position for long battery and optional antenna).



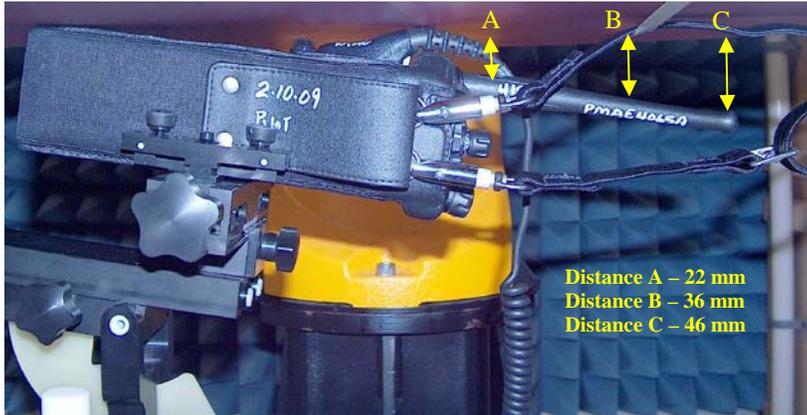
DUT w/ audio cable RMN5058A, battery (long) NNTN7037A, nylon case PMLN5328A with carry strap NTN5243A against the phantom with antenna PMAE4065A.



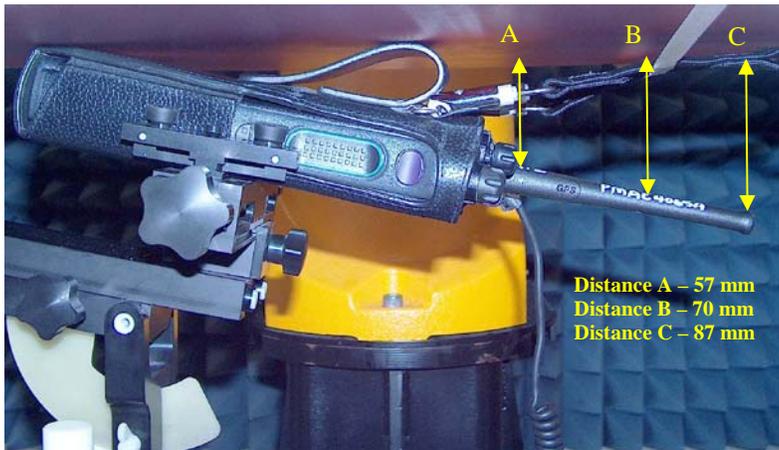
DUT w/ audio cable RMN5058A, battery (long) NNTN7037A, nylon case PMLN5328A, carry strap NTN5243A with DUT PTT side against the phantom with antenna PMAE4065A.



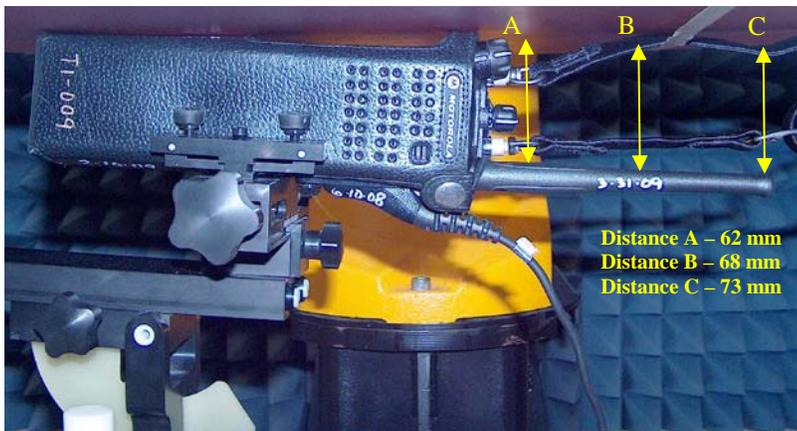
DUT w/ audio cable RMN5058A, battery (long) NNTN7037A, nylon case PMLN5328A, carry strap NTN5243A with DUT audio accessory connector side against the phantom with antenna PMAE4065A.



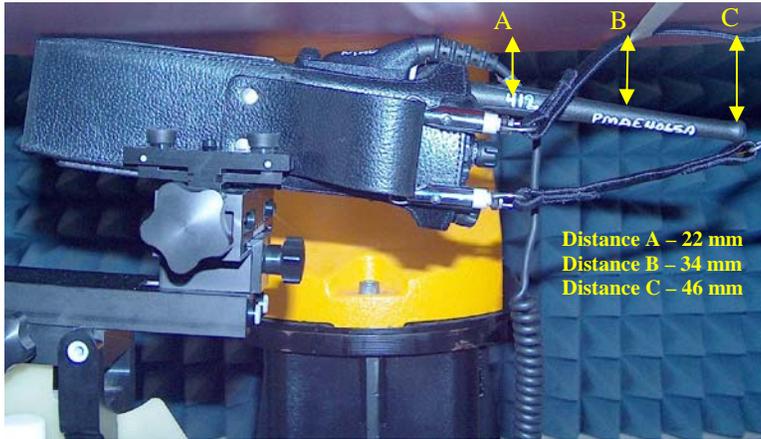
DUT w/ audio cable RMN5058A, battery (long) NNTN7037A, leather case PMLN5329A with carry strap NTN5243A against the phantom with antenna PMAE4065A.



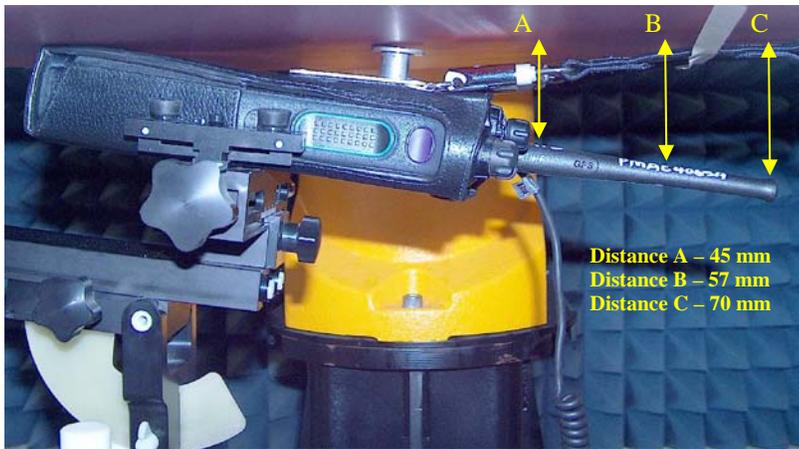
DUT w/ audio cable RMN5058A, battery (long) NNTN7037A, leather case PMLN5329A, carry strap NTN5243A with DUT PTT side against the phantom with antenna PMAE4065A



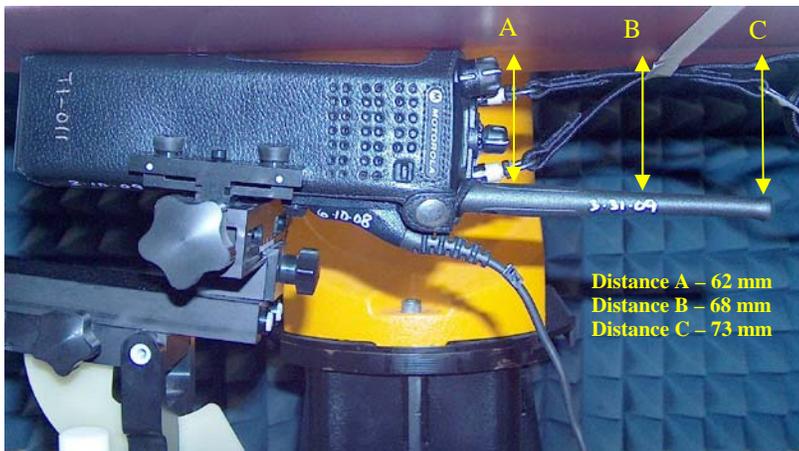
DUT w/ audio cable RMN5058A, battery (long) NNTN7037A, leather case PMLN5329A, carry strap NTN5243A with DUT audio accessory connector side against the phantom with antenna PMAE4065A.



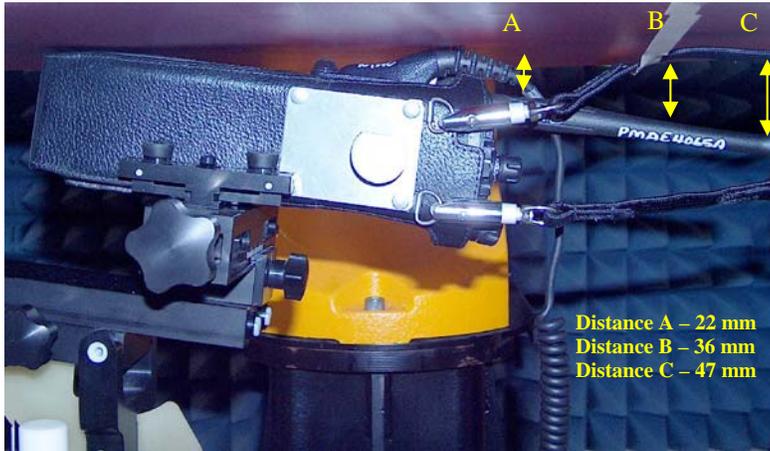
DUT w/ audio cable RMN5058A, battery (long) NNTN7037A, leather case PMLN5330A with carry strap NTN5243A against the phantom with antenna PMAE4065A.



DUT w/ audio cable RMN5058A, battery (long) NNTN7037A, leather case PMLN5330A, carry strap NTN5243A with DUT PTT side against the phantom with antenna PMAE4065A.



DUT w/ audio cable RMN5058A, battery (long) NNTN7037A, leather case PMLN5330A, carry strap NTN5243A with DUT audio accessory connector side against the phantom with antenna PMAE4065A.

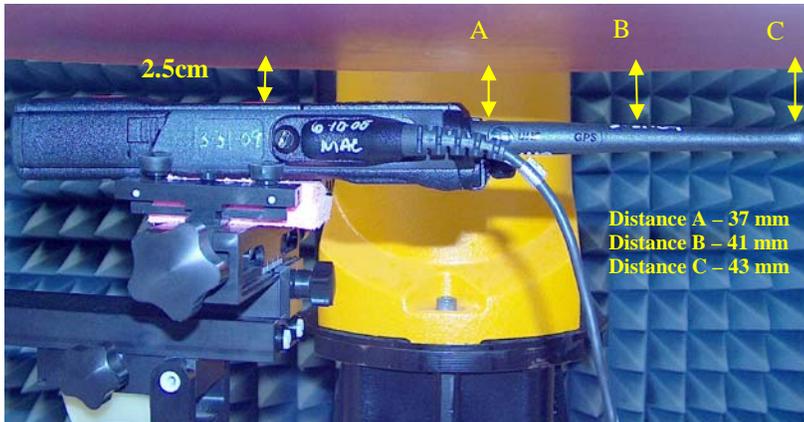


**2.2 Front Side against phantom**  
Not applicable.

**2.3 Back side against phantom**  
Not applicable.

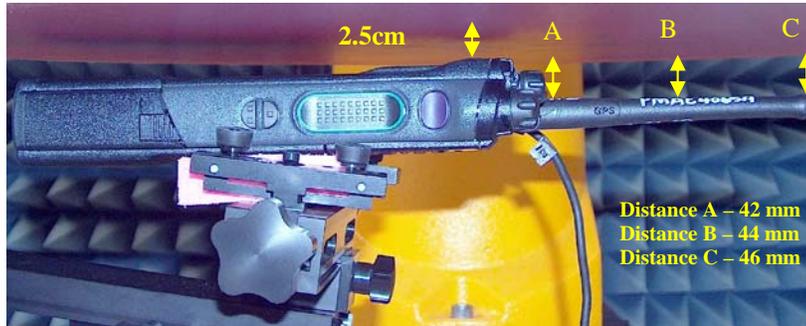
**2.4 Front 2.5cm separation**

DUT w/ front side separated 2.5cm from phantom; worst case audio accessory RMN5058A, battery (long) NNTN7037A attached with antenna PMAE4065A.



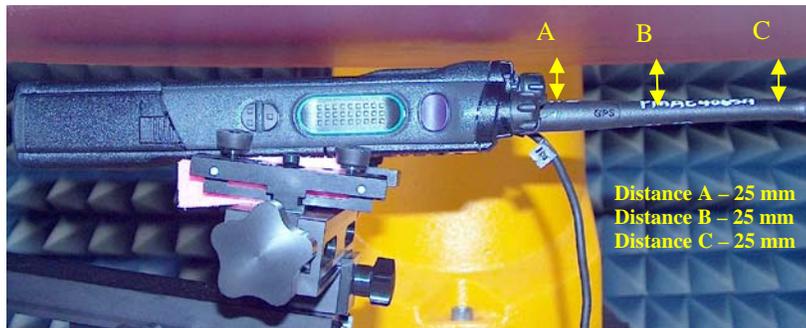
**2.5 Back 2.5cm separation**

DUT w/ back side separated 2.5cm from phantom; worst case audio accessory RMN5058A, battery (long) NNTN7037A attached with antenna PMAE4065A.



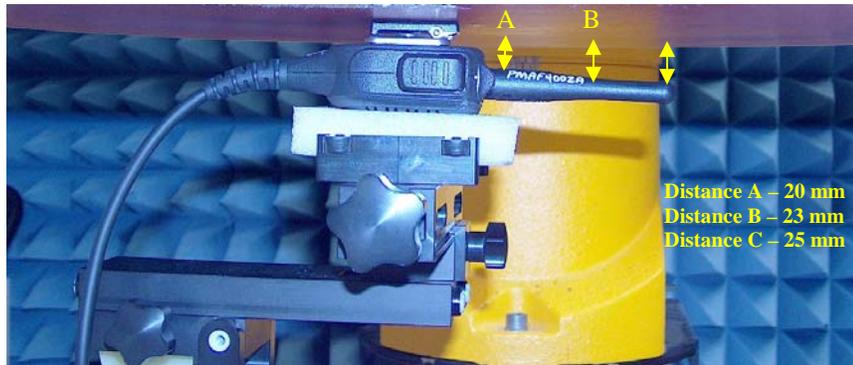
**2.6 Antenna 2.5cm separation**

DUT w/ back of DUT facing phantom and antenna at 2.5cm from the phantom; worst case audio accessory RMN5058A, battery (long) NNTN7037A attached with antenna PMAE4065A.



**2.7 Public Safety Microphone (PSM)**

Close up photo of PSM PMMN4059A positioned against phantom. Same test position for optional PSM's PMMN4060A and PMMN4061A.



A broad view of PSM PMMN4059A against the phantom and connected to DUT.



**3.0 Other SAR tested position at the face**

**3.1 Front 2.5cm separation**

Refer to the photo for face highest SAR test position at 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.

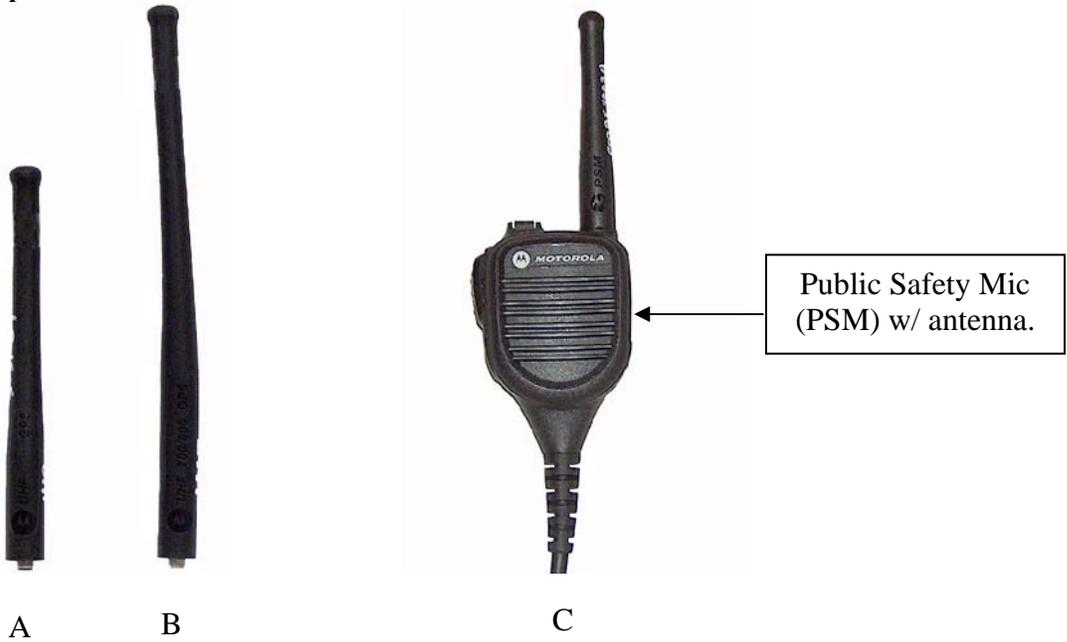
**5.5 Back side**

Not applicable.

**6.0 DUT and Accessory Photos**

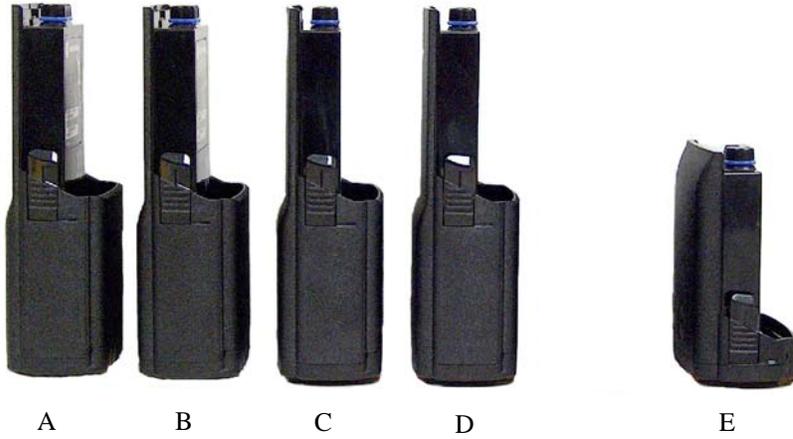
The purpose of these photos is to illustrate the offered antenna, battery and body-worn carry accessory(ies). The sample that was used in the following photos represents the product used to obtain the results presented herein.

**6.1 Antenna photos**

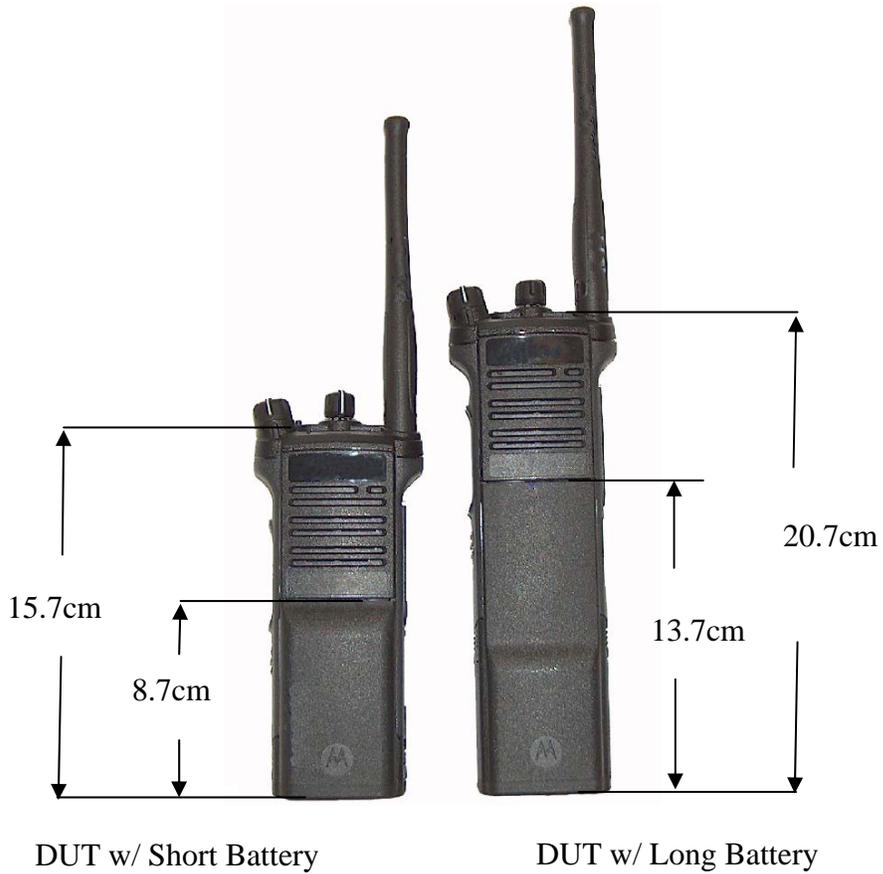


	Kit Number	Type	Freq Range (MHz)	Electrical Length (wave form)	Physical Length (cm)	Antenna Gain (dBd)
A	PMAE4065A	Whip	380-520, 1575(GPS)	1/4	15	-2.0
B	PMAS4000A	Whip	380-520, 764-870, 1575(GPS)	1/4	21	-2.0
C	PMAF4002A (PSM only)	Stubby	764-870	1/4	9	-10

6.2 Battery photos



	<b>Kit Number</b>	<b>Description</b>
A	NNTN7033A	Long - Impres FM, Li Ion 3900mAh
B	NNTN7034A	Long - Impres, Li Ion 4000mAh
C	NNTN7035A	Long - Impres, FM Rugged, NiMH 2000mAh
D	NNTN7037A	Long - Impres, NiMH 2100mAh
E	NNTN7038A	Short - Impres, Li Ion 2500mAh



6.3 Tested body worn accessories



DUT Back View  
Belt Clip NTN8266B



DUT Side View  
Belt Clip NTN8266B



DUT Back View  
Belt Clip HLN6875A



DUT Side View  
Belt Clip HLN6875A



Belt Clip  
Attaches Here

DUT Back View  
Holster PMLN5331A  
Either Belt Clip  
NTN8266B or  
HLN6875A Can Be Used



DUT Front View  
Holster PMLN5331A  
Either Belt Clip  
NTN8266B or  
HLN6875A Can Be Used

Belt Clip  
Attaches Here



DUT Side View  
Holster PMLN5331A  
Either Belt Clip  
NTN8266B or  
HLN6875A Can Be Used



**DUT Back View**  
Nylon Case PMLN5322A  
(short battery only)



**DUT Front View**  
Nylon Case PMLN5322A  
(short battery only)



**DUT Side View**  
Nylon Case PMLN5322A  
(short battery only)



**DUT Back View**  
Nylon Case PMLN5328A  
(long battery only)



**DUT Front View**  
Nylon Case PMLN5328A  
(long battery only)



**DUT Side View**  
Nylon Case PMLN5328A  
(long battery only)



**DUT Back View  
Leather Case PMLN5323A  
(short battery only)**



**DUT Front View  
Leather Case PMLN5323A  
(short battery only)**



**DUT Side View  
Leather Case PMLN5323A  
(short battery only)**



**DUT Back View  
Leather Case PMLN5329A  
(long battery only)**



**DUT Front View  
Leather Case PMLN5329A  
(long battery only)**



**DUT Side View  
Leather Case PMLN5329A  
(long battery only)**



**DUT Back View**  
Leather Case PMLN5324A  
(short battery only)



**DUT Front View**  
Leather Case PMLN5324A  
(short battery only)



**DUT Side View**  
Leather Case PMLN5324A  
(short battery only)



**DUT Back View**  
Leather Case PMLN5330A  
(long battery only)



**DUT Front View**  
Leather Case PMLN5330A  
(long battery only)



**DUT Side View**  
Leather Case PMLN5330A  
(long battery only)



DUT Side View  
Carry Strap NTN5243A  
Leather Case PMLN5330A  
(long battery only)



DUT Side View  
Carry Strap NTN5243A  
Leather Case PMLN5329A  
(long battery only)



DUT Side View  
Carry Strap NTN5243A  
Leather Case PMLN5328A  
(long battery only)

6.4 DUT with audio accessory



DUT Front View w/ PSM



DUT Front View w/ RSM

6.5 Audio accessory examples



**RSM PMMN4062A**  
Tested



**RSM PMMN4025A**  
Not tested because of similarities to  
tested PMMN4062A



**RSM PMMN4062A  
W/ RLN4885A**  
Not tested because of similarities to tested  
PMMN4062A



**RLN4941A**  
Not tested because of similarities to tested  
RLN4885A

Only the ear piece is different



**RLN5882A**  
Tested



**RLN5880A**  
Not tested because of similarities to  
tested RLN5882A



**RSM PMMN4024A**  
Tested