

# APPENDIX E: DUT ANTENNA DIAGRAM & SAR TEST SETUP PHOTOGRAPHS

| FCC ID A3LSMF936U                 | SAR EVALUATION REPORT | Approved by:                |
|-----------------------------------|-----------------------|-----------------------------|
|                                   |                       | Technical Manager           |
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Note: Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC Filing.

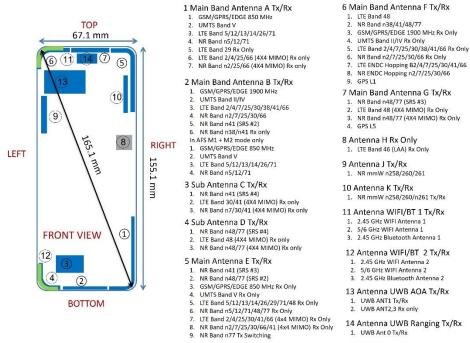


Figure E-1
DUT Antenna Locations – Closed Configuration (Handset)

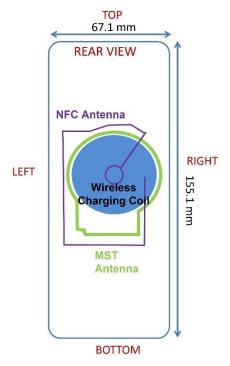
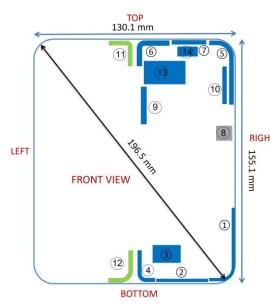


Figure E-2
Other Antenna Locations – Closed Configuration (Handset)

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# 1 Main Band Antenna A Tx/Rx 1. GSM/GPRS/EDGE 850 MHz

- UMTS Band V
- LTE Band 5/12/13/14/26/71 NR Band n5/12/71 LTE Band 29 Rx Only

- LTE Band 2/4/25/66 (4X4 MIMO) Rx only NR Band n2/25/66 (4X4 MIMO) Rx only

#### 2 Main Band Antenna B Tx/Rx

- 1. GSM/GPRS/EDGE 1900 MHz
- UMTS Band II/IV LTE Band 2/4/7/25/30/38/41/66 NR Band n2/7/25/30/66

- 5. NR Band n41 (SRS #2) 6. NR Band n38/n41 Rx only RIGHT In AFS M1 + M2 mode only
  - 1. GSM/GPRS/EDGE 850 MHz

  - UMTS Band V LTE Band 5/12/13/14/26/71 4. NR Band n5/12/71

#### 3 Sub Antenna C Tx/Rx

- NR Band n41 (SRS #4)
   LTE Band 30/41 (4X4 MIMO) Rx only
   NR Band n7/30/41 (4X4 MIMO) Rx only

#### 4 Sub Antenna D Tx/Rx

- NR Band n48/77 (SRS #4)
   LTE Band 48 (4X4 MIMO) Rx only
- 3. NR Band n48/77 (4X4 MIMO) Rx only

#### 5 Main Antenna E Tx/Rx

- NR Band n41 (SRS #3)
   NR Band n48/77 (SRS #2)
   GSM/GPRS/EDGE 850 MHz Rx Only
- UMTS Band V Rx Only
- UTE Band 5/12/13/14/26/29/71/48 Rx Only
  NR Band n5/12/71/48/77 Rx Only
  LTE Band 2/4/25/30/41/66 (4x4 MIMO) Rx Only
- NR Band n2/7/25/30/66/41 (4x4 MIMO) Rx Only

### 6 Main Band Antenna F Tx/Rx

- LTE Band 48
- NR Band n38/41/48/77
- LTE ENDC 66 NR ENDC n2/25/30/66
- GSM/GPRS/EDGE 1900 MHz Rx Only UMTS Band II/IV Rx Only LTE Band 2/4/7/25/30/38/41/66 Rx Only
- NR Band n2/7/25/30/66 Rx Only
- GPS L1

# 7 Main Band Antenna G Tx/Rx 1. NR Band n48/77 (SRS #3)

- LTE Band 48 (4X4 MIMO) Rx Only
- NR Band n48/77 (4X4 MIMO) Rx Only
   GPS L5

#### 8 Antenna H Rx Only

1. LTE Band 46 (LAA) Rx Only

#### 9 Antenna J Tx/Rx

#### 10 Antenna K Tx/Rx

NR mmW n258/260/n261 Tx/Rx

#### 11 Antenna WIFI/BT 1 Tx/Rx

- 1. 2.45 GHz WIFI Antenna 1
- 5/6 GHz WIFI Antenna 1
   2.45 GHz Bluetooth Antenna 1

#### 12 Antenna WIFI/BT 2 Tx/Rx

- 2.45 GHz WIFI Antenna 2 5/6 GHz WIFI Antenna 2

## 3. 2.45 GHz Bluetooth Antenna 2

- 13 Antenna UWB AOA Tx/Rx
- UWB ANT1 Tx/Rx
   UWB ANT2,3 Rx only

#### 14 Antenna UWB Ranging Tx/Rx

## Figure E-3 **DUT Antenna Locations - Open Configuration (UMPC)**

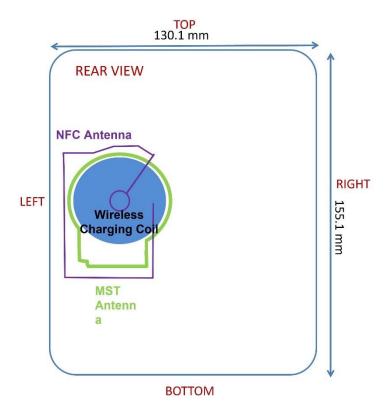
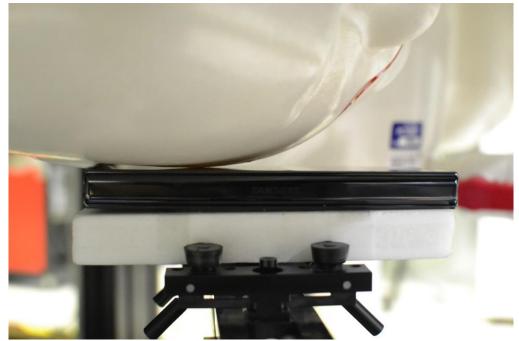


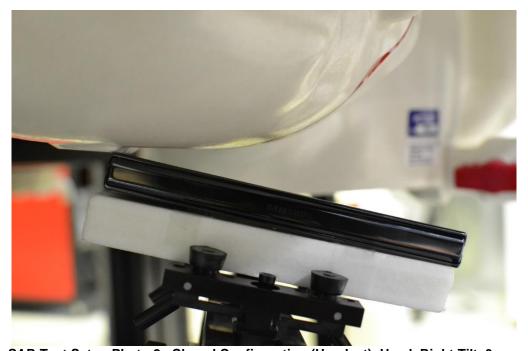
Figure E-4 Other Antenna Locations - Open Configuration (UMPC)

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SAR Test Setup Photo 1- Closed Configuration (Handset), Head, Right Cheek, 0 mm



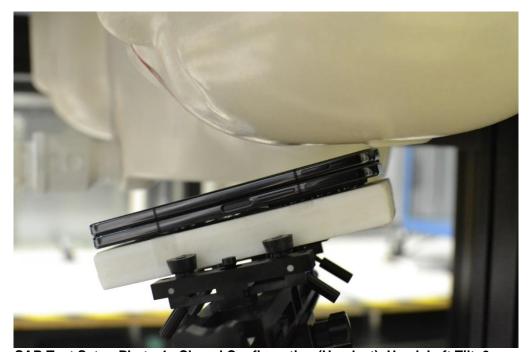
SAR Test Setup Photo 2- Closed Configuration (Handset), Head, Right Tilt, 0 mm

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SAR Test Setup Photo 3- Closed Configuration (Handset), Head, Left Cheek, 0 mm



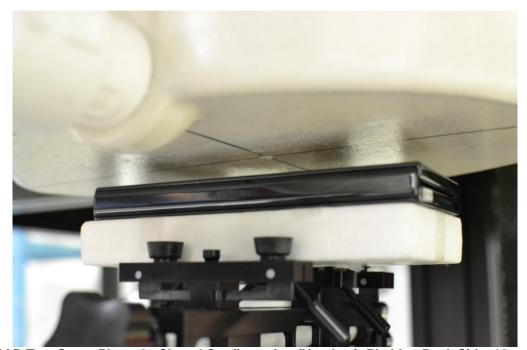
SAR Test Setup Photo 4- Closed Configuration (Handset), Head, Left Tilt, 0 mm

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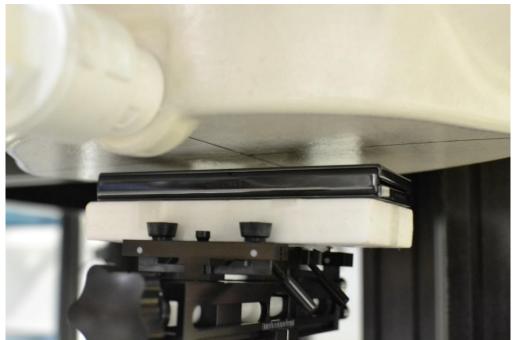
SAR Test Setup Photo 5- Closed Configuration (Handset), Body-worn, Back Side, 15 mm



SAR Test Setup Photo 6- Closed Configuration (Handset), Phablet, Back Side, 12 mm

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SAR Test Setup Photo 7- Closed Configuration (Handset), Hotspot, Back Side, 10 mm



SAR Test Setup Photo 8- Closed Configuration (Handset), Phablet, Back Side, 0 mm

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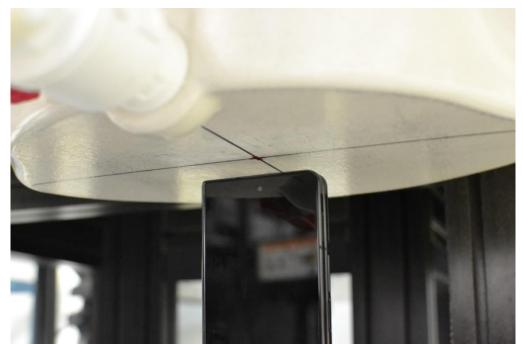
SAR Test Setup Photo 9- Closed Configuration (Handset), Hotspot, Front Side, 10 mm



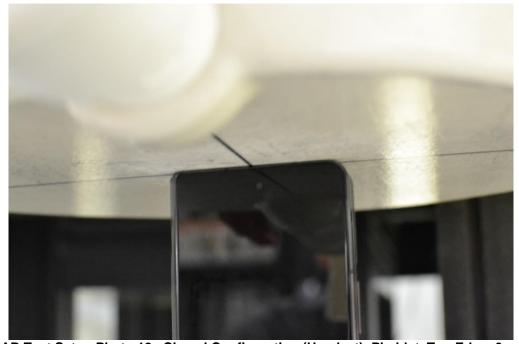
SAR Test Setup Photo 10- Closed Configuration (Handset), Phablet, Front Side, 0 mm

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SAR Test Setup Photo 11- Closed Configuration (Handset), Hotspot, Top Edge, 10 mm



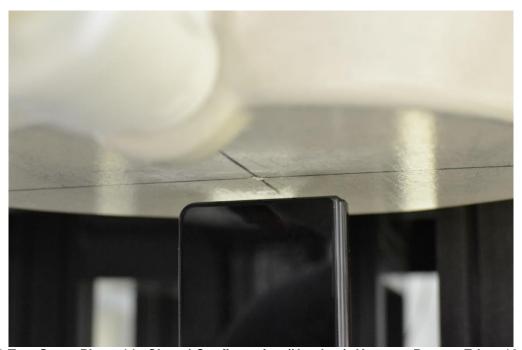
SAR Test Setup Photo 12- Closed Configuration (Handset), Phablet, Top Edge, 0 mm

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SAR Test Setup Photo 13- Closed Configuration (Handset), Phablet, Bottom Edge, 14 mm



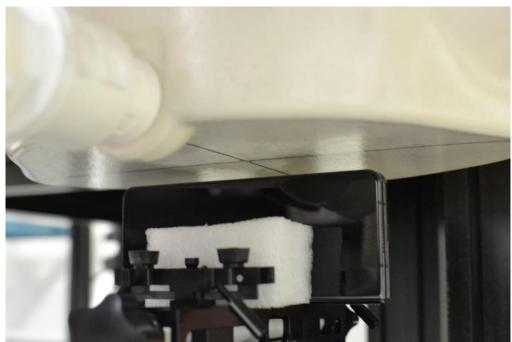
SAR Test Setup Photo 14- Closed Configuration (Handset), Hotspot, Bottom Edge, 10 mm

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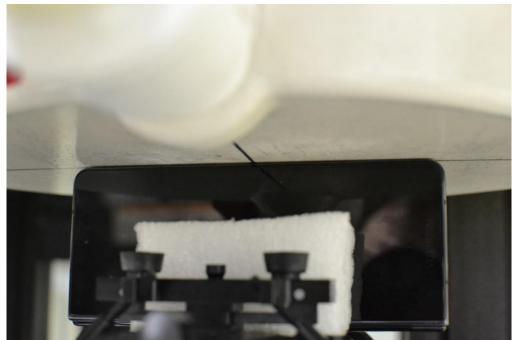
SAR Test Setup Photo 15- Closed Configuration (Handset), Phablet, Bottom Edge, 0 mm



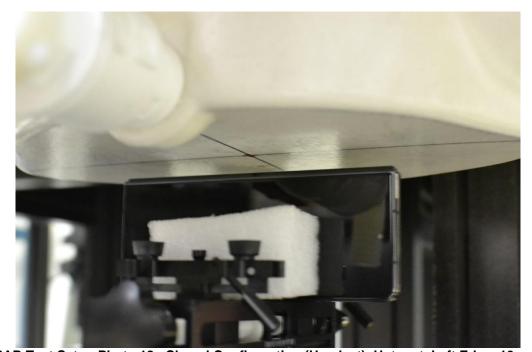
SAR Test Setup Photo 16- Closed Configuration (Handset), Hotspot, Right Edge, 10 mm

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SAR Test Setup Photo 17- Closed Configuration (Handset), Phablet, Right Edge, 0 mm



SAR Test Setup Photo 18- Closed Configuration (Handset), Hotspot, Left Edge, 10 mm

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SAR Test Setup Photo 19- Closed Configuration (Handset), Phablet, Left Edge, 0 mm



SAR Test Setup Photo 20- Open Configuration (UMPC), UMPC Body/Extremity, Back Side, 14 mm

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SAR Test Setup Photo 21- Open Configuration (UMPC), UMPC Body, Back Side, 10 mm



SAR Test Setup Photo 22- Open Configuration (UMPC), UMPC Extremity, Back Side, 0 mm

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SAR Test Setup Photo 23- Open Configuration (UMPC), UMPC Body/Extremity, Front Side, 12 mm



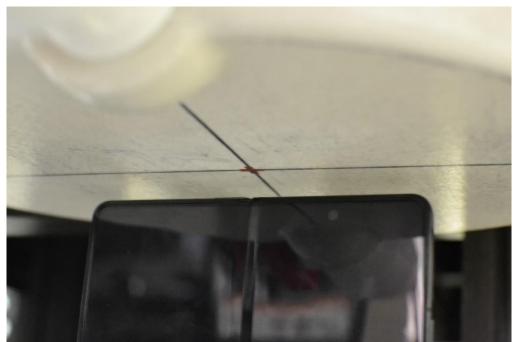
SAR Test Setup Photo 24- Open Configuration (UMPC), UMPC Body, Front Side, 10 mm

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SAR Test Setup Photo 25- Open Configuration (UMPC), UMPC Extremity, Front Side, 0 mm



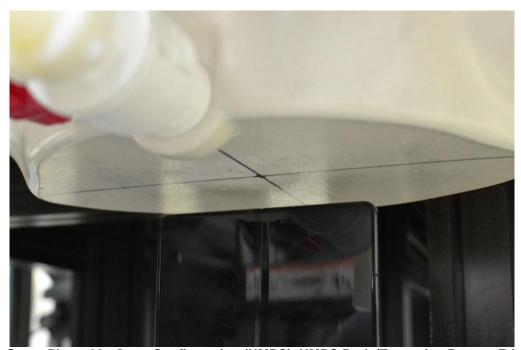
SAR Test Setup Photo 26- Open Configuration (UMPC), UMPC Body, Top Edge, 10 mm

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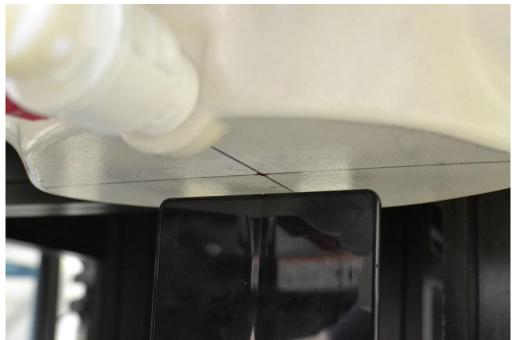
SAR Test Setup Photo 27- Open Configuration (UMPC), UMPC Extremity, Top Edge, 0 mm



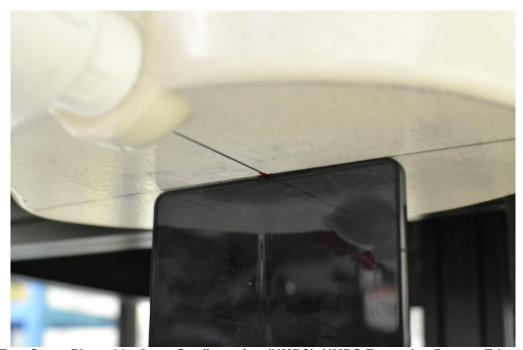
SAR Test Setup Photo 28- Open Configuration (UMPC), UMPC Body/Extremity, Bottom Edge, 18 mm

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SAR Test Setup Photo 29- Open Configuration (UMPC), UMPC Body, Bottom Edge, 10 mm



SAR Test Setup Photo 30- Open Configuration (UMPC), UMPC Extremity, Bottom Edge, 0 mm

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SAR Test Setup Photo 31- Open Configuration (UMPC), UMPC Body, Right Edge, 10 mm



SAR Test Setup Photo 32- Open Configuration (UMPC), UMPC Extremity, Right Edge, 0 mm

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SAR Test Setup Photo 33- Closed Configuration (Handset) Horizonal and Vertical Reference Lines

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