

APPENDIX E: DUT ANTENNA DIAGRAM & SAR TEST SETUP PHOTOGRAPHS

FCC ID: ZNFG900UM	 Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 04/27/20 - 06/25/20	DUT Type: Portable Handset			APPENDIX E: Page 1 of 23

The diagram shows the rear view of a mechanical part. The overall dimensions are 74.17 mm in width and 167.18 mm in height. A diagonal dimension of 178.76 mm is indicated. The part features ten numbered features: 1 (bottom left corner), 2 (bottom right corner), 3 (left side, lower), 4 (top left corner), 5 (top right corner), 6 (right side, upper), 7 (top center), 8 (right side, middle), 9 (left side, upper), and 10 (right side, lower). The top edge is labeled 'TOP', the bottom edge 'BOTTOM', the left side 'RIGHT', and the right side 'LEFT'.

1. Main Band Antenna I Tx/Rx
 1. CDMA/EVDO BC0
 2. GSM/GPRS/EDGE 850 MHz
 3. UMTS Band V
 4. LTE Band 71/12/17/13/14/5
 5. NR FR1 n71/n5
 6. LTE Band 29 Rx Only
 7. NR FR1 n41 Rx only
 8. Inter-band ULCA B5/B12
2. Main Band Antenna II Tx/Rx
 1. CDMA/EVDO BC1
 2. GSM/GPRS/EDGE 1900 MHz
 3. UMTS Band II/IV
 4. LTE Band 66/4/25/2/30/7/41
 5. NR FR1 n66/n2/n25 Rx only
 6. Inter-band ULCA B66/2 (PCC & SCC)
when CA_12A-66A, CA_2A-12A,
CA_2A-5A, CA_5A-66A ULCA Active
3. Main Band Antenna III Tx/Rx
 1. LTE Band 66/4/25/2 Rx only
 2. NR FR1 n66/n2/n25
 3. Inter-band ULCA 66/2 (SCC)
when CA_2A-66A ULCA Active
4. Sub Band Antenna I Rx Only
 1. CDMA/EVDO BC0/BC1
 2. GSM/GPRS/EDGE 850/1900 MHz
 3. UMTS Band II/IV/V
 4. LTE Band 71/12/17/13/14/5/66/4/25/2/30/7/41/29
 5. NR FR1 n71/n5/n66/n2/n25/n41
5. Wi-Fi Band Antenna II Tx/Rx
 1. 2.4 GHz Wi-Fi
 2. 5 GHz Wi-Fi
 3. GNSS
 4. LTE Band 46 2nd Rx only
6. Wi-Fi Band Antenna I Tx/Rx
 1. 2.4 GHz Wi-Fi
 2. 5 GHz Wi-Fi
 3. 2.4 GHz Bluetooth
 4. LTE Band 46 Rx only
7. Sub Band Antenna II Rx Only
 1. LTE Band 66/4/25/2/7
 2. NR FR1 n66/n2/n25/n41
8. Sub Band Antenna III Rx Only
 1. Non-US
9. Sub Band Antenna IV Tx/Rx Only
 1. NR FR1 n41
 2. LTE Band 7 Rx Only
10. Sub Band Antenna V Rx Only
 1. Non-US

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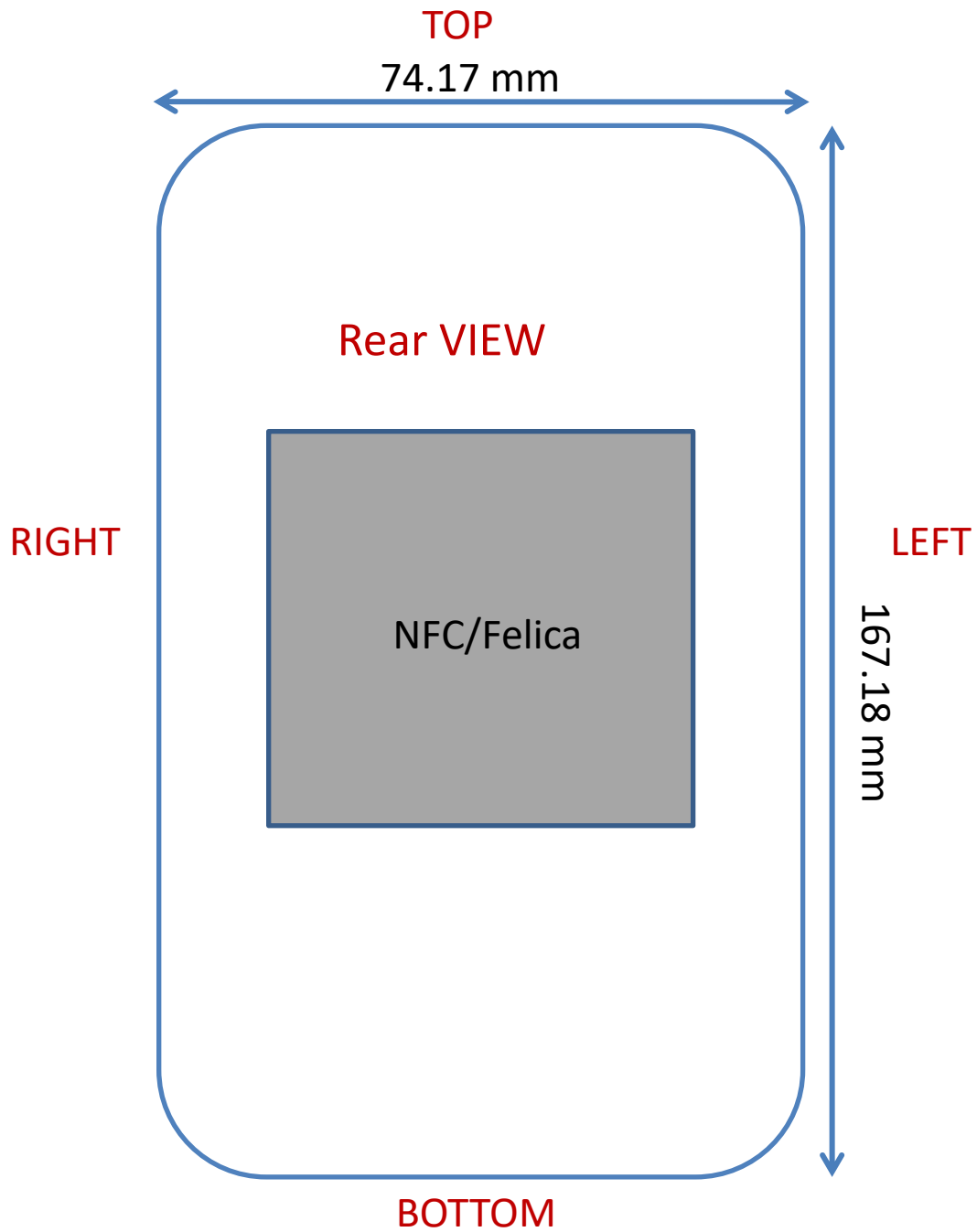
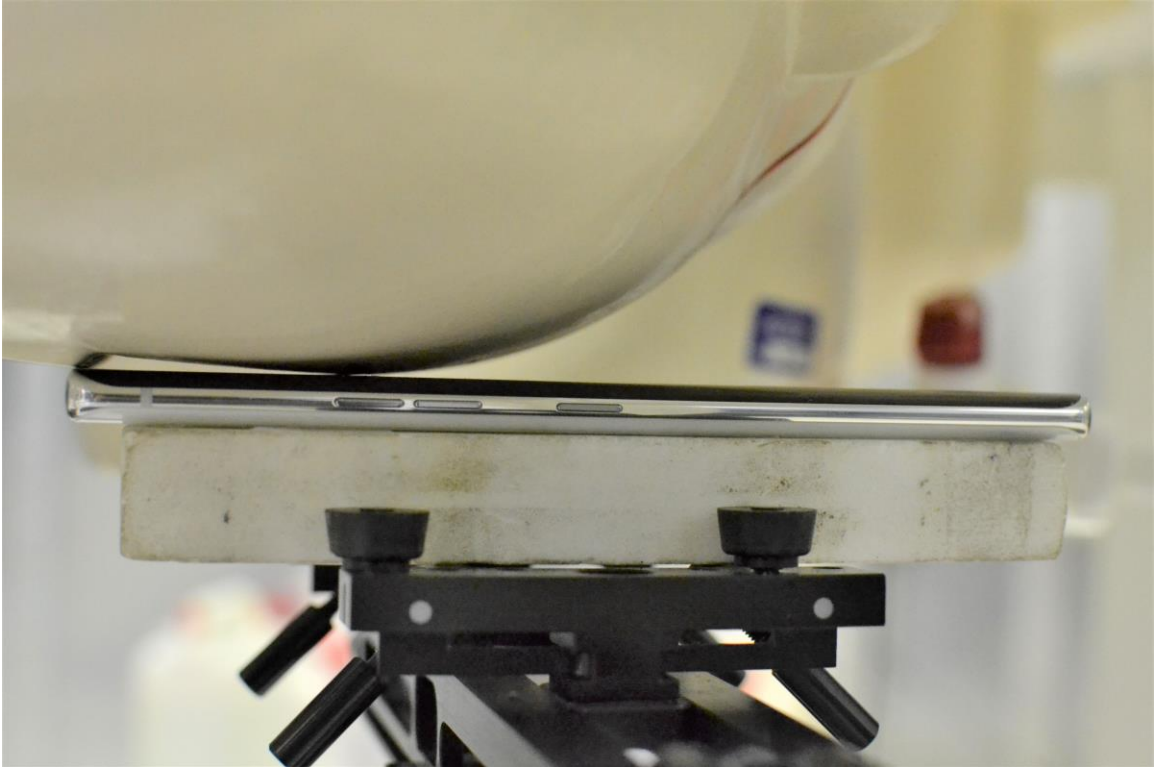
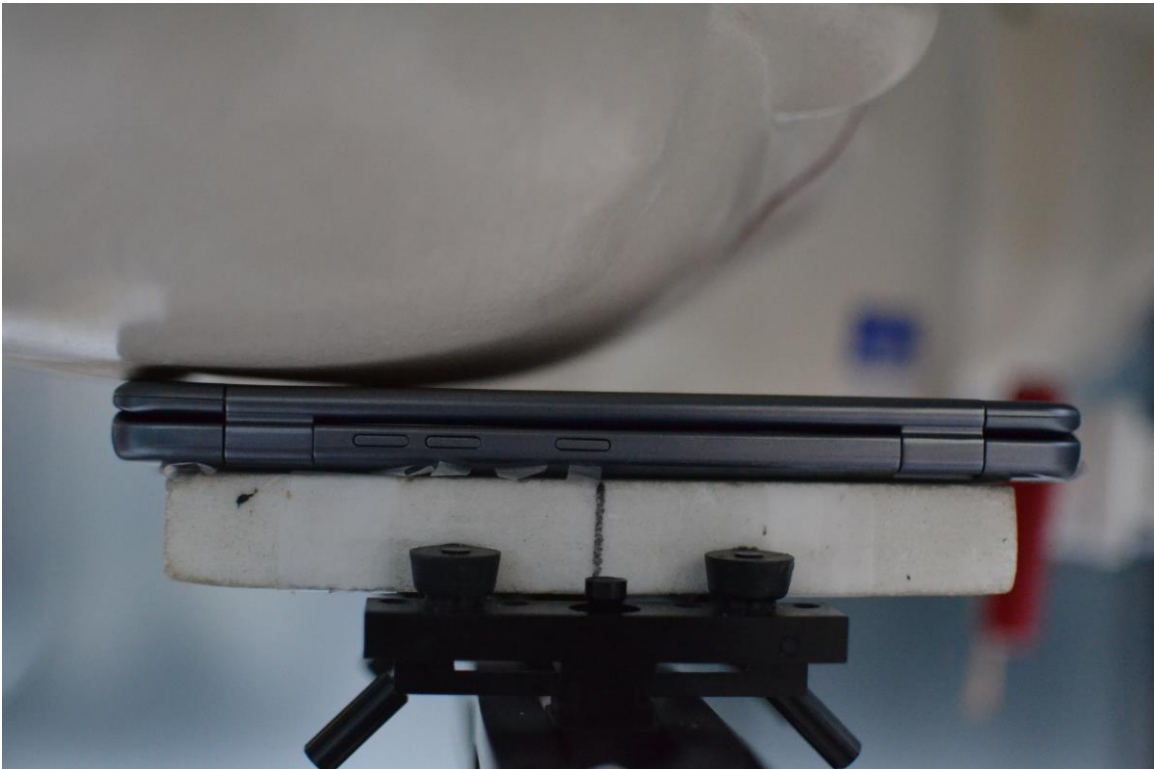


Figure E-2
NFC/Felica Antenna Location

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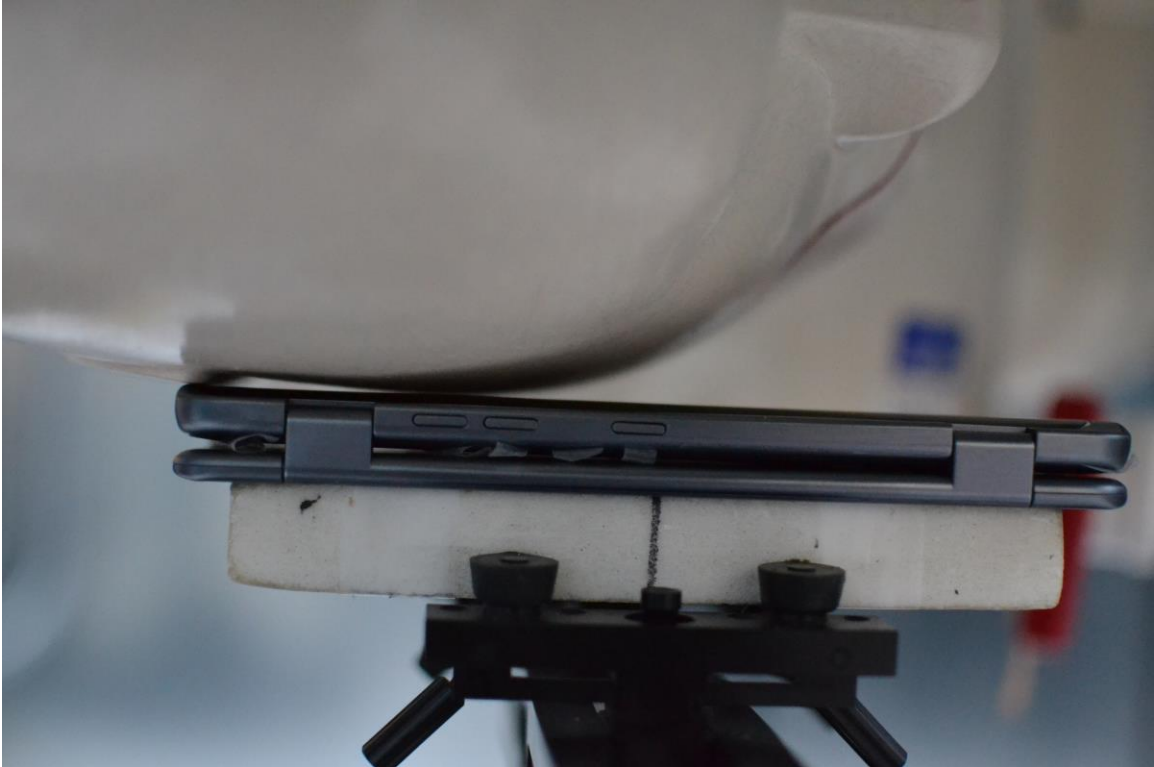


SAR Test Setup Photo 1 – Right Cheek

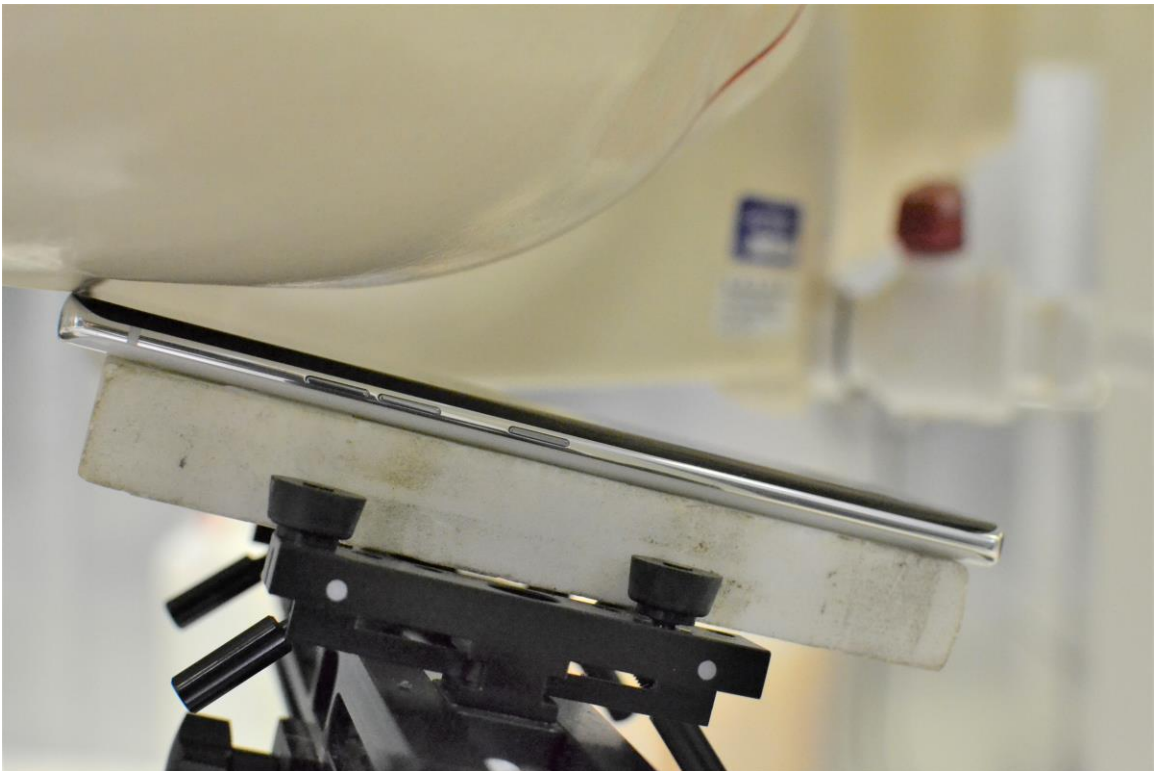


SAR Test Setup Photo 2 – Right Cheek with Dual Display Accessory Position #1

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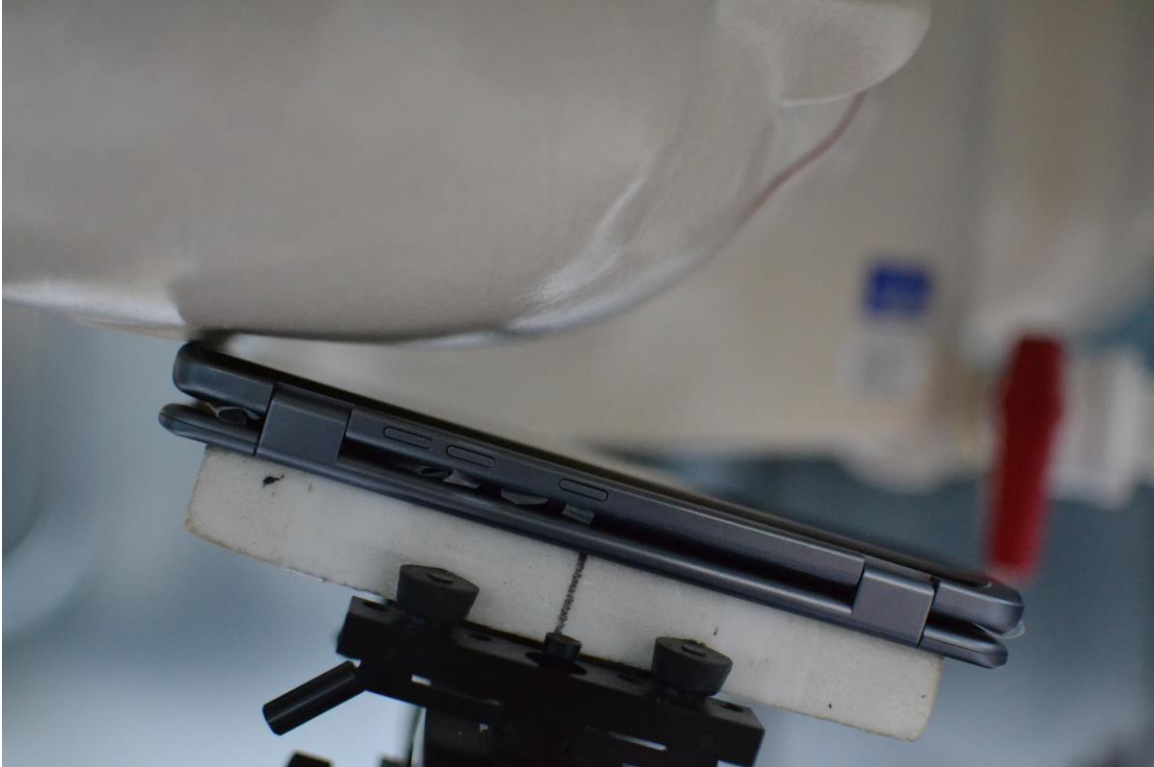


SAR Test Setup Photo 3 – Right Cheek with Dual Display Accessory Position #3

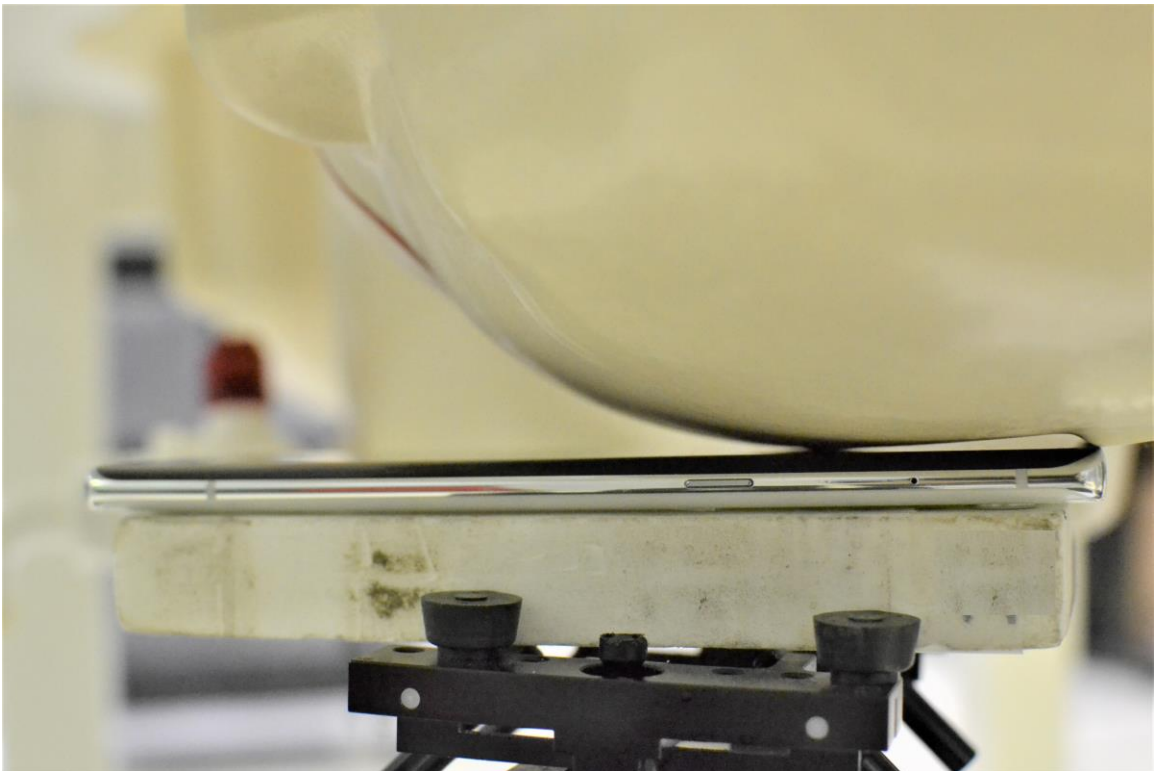


SAR Test Setup Photo 4 – Right Tilt

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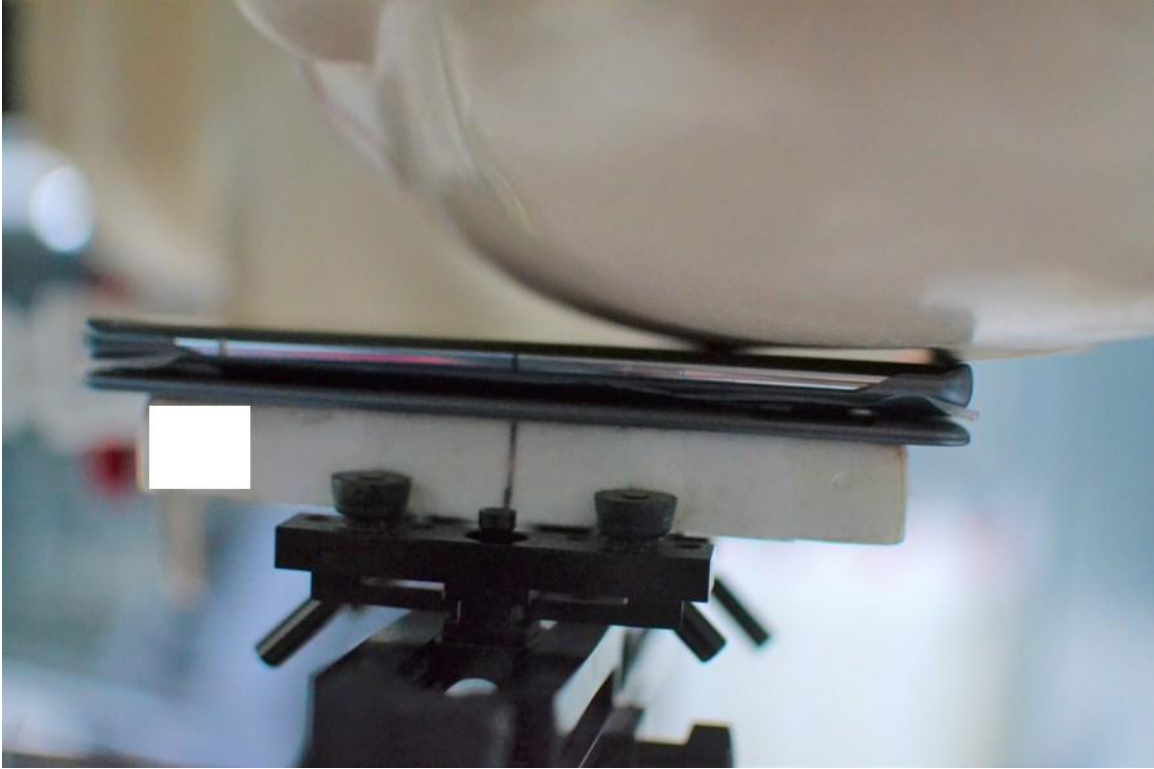


SAR Test Setup Photo 5 – Right Tilt with Dual Display Accessory Position #3

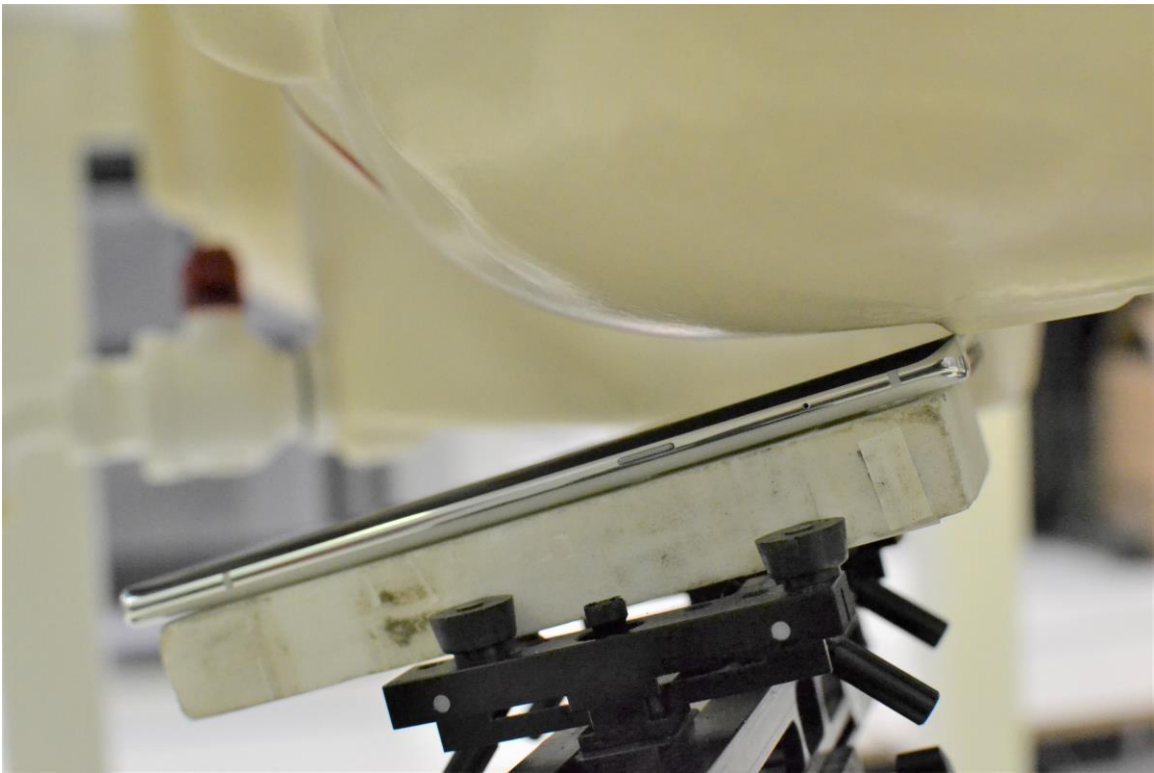


SAR Test Setup Photo 6 – Left Cheek

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SAR Test Setup Photo 7 – Left Cheek with Dual Display Accessory Position #3

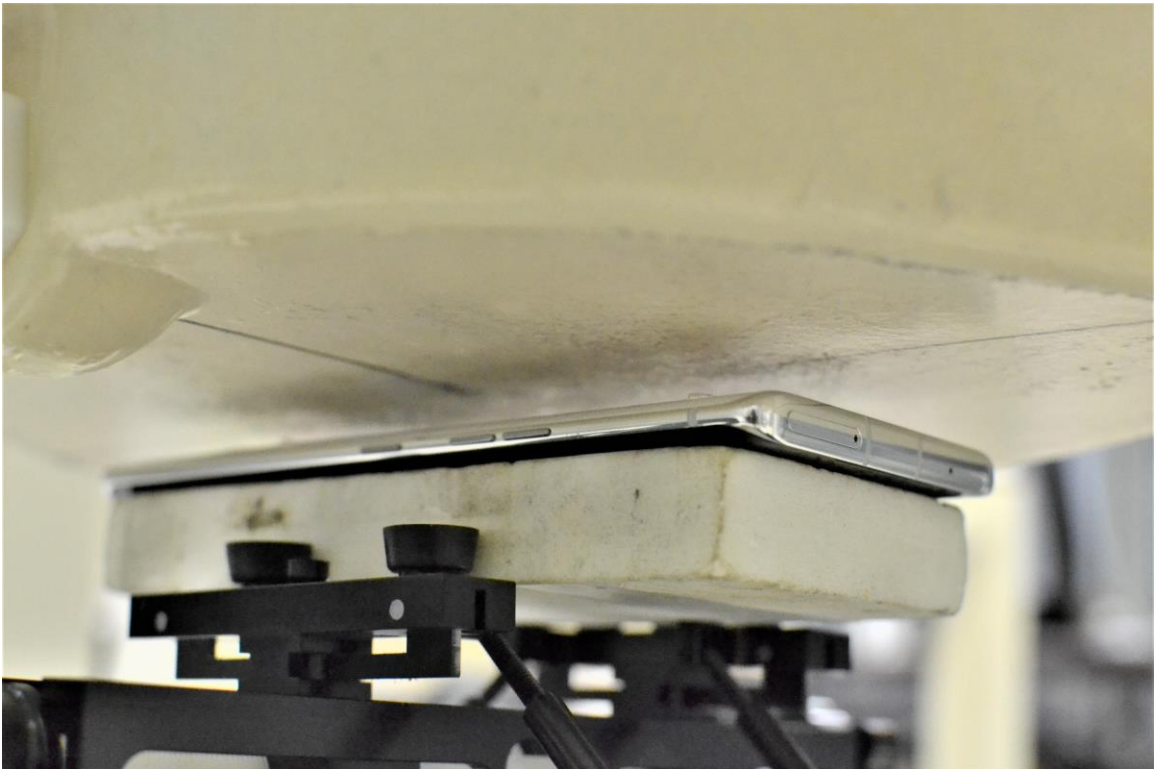


SAR Test Setup Photo 8 – Left Tilt

FCC ID: ZNFG900UM	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	 LG	Approved by: Quality Manager
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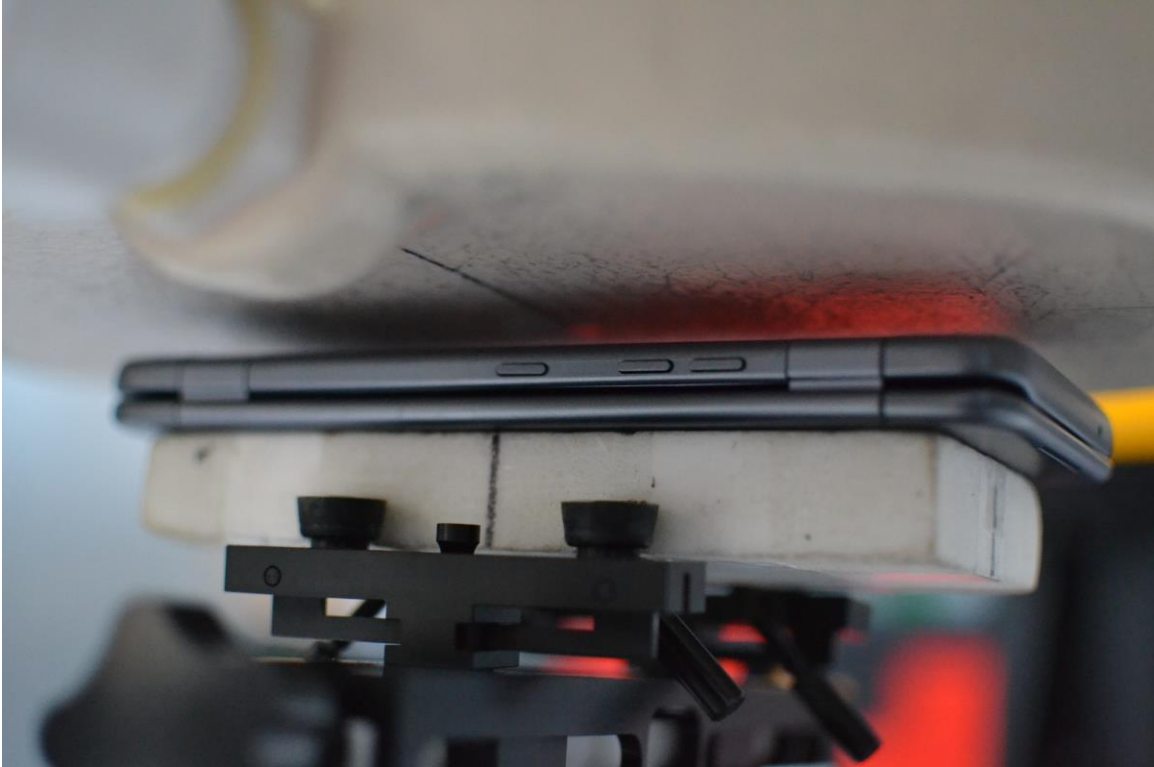


SAR Test Setup Photo 9 – Left Tilt with Dual Display Accessory Position #3

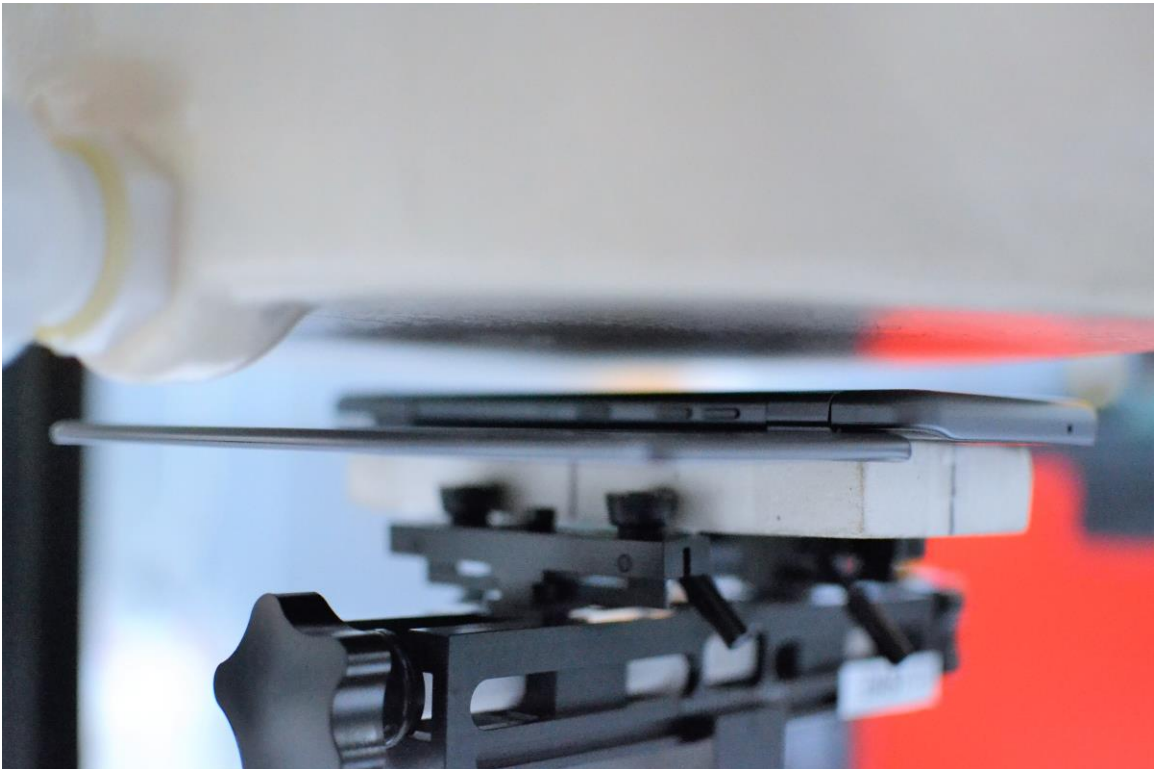


SAR Test Setup Photo 10 – Back Side at 10 mm

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SAR Test Setup Photo 11 – Back Side with Dual Display Accessory Position #1 at 10 mm

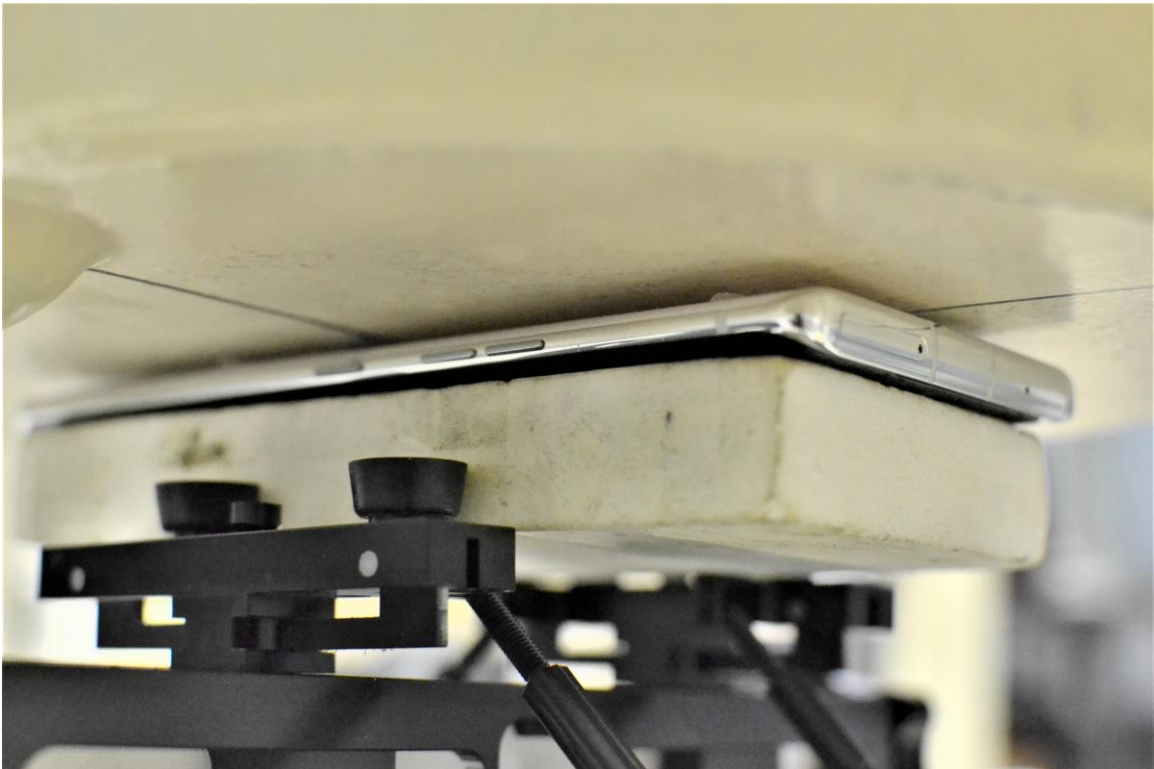


SAR Test Setup Photo 12 – Back Side with Dual Display Accessory Position #2 at 10 mm

FCC ID: ZNFG900UM	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
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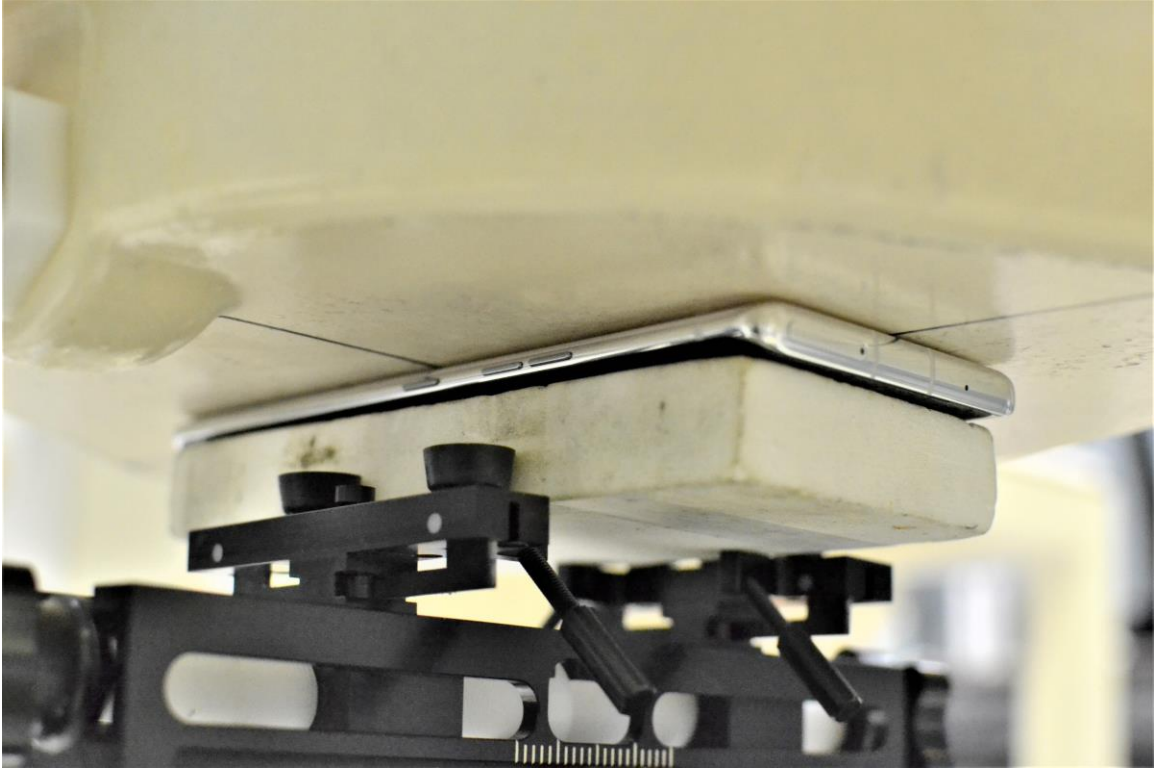


SAR Test Setup Photo 13 – Back Side with Dual Display Accessory Position #3 at 10 mm

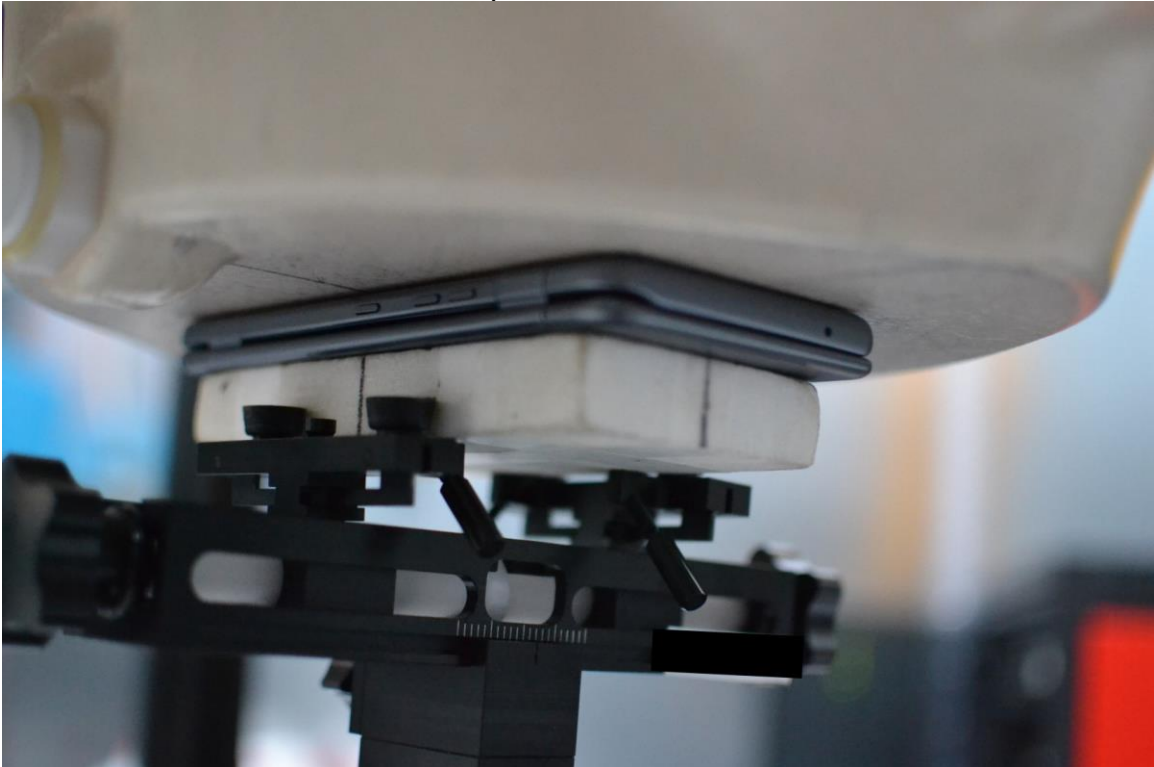


SAR Test Setup Photo 14 – Back Side at 2 mm

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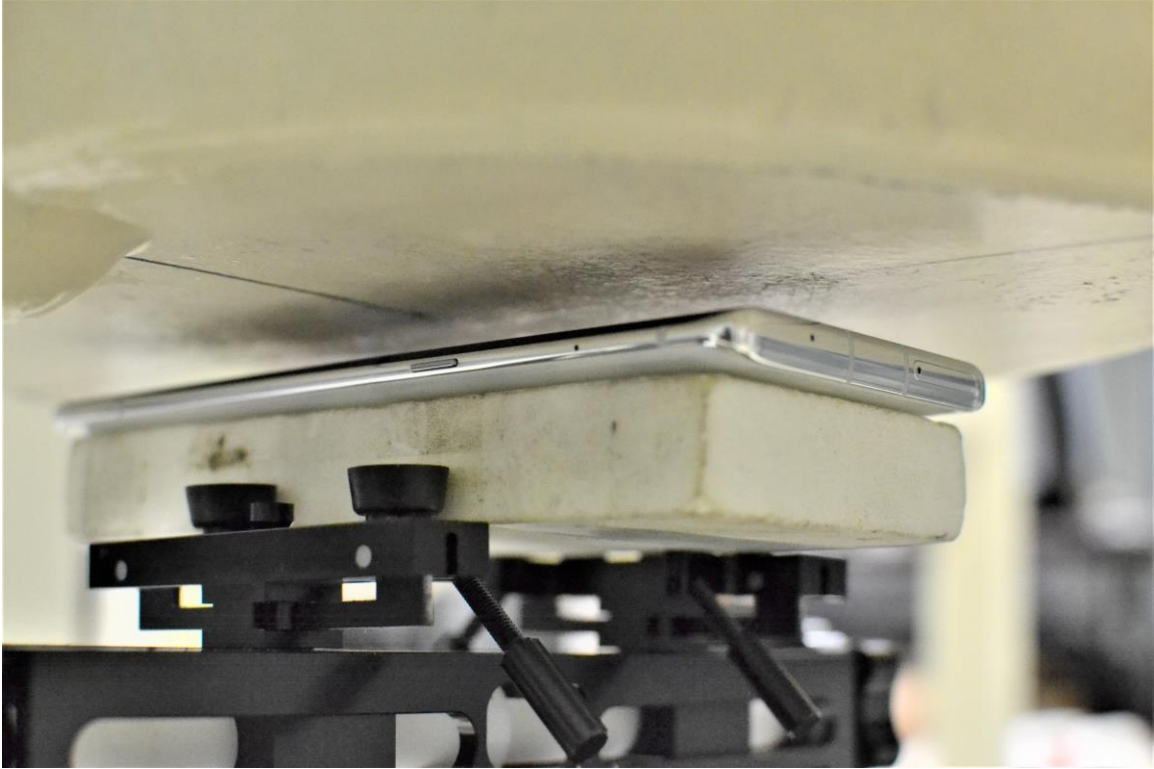


SAR Test Setup Photo 15 – Back Side at 0 mm

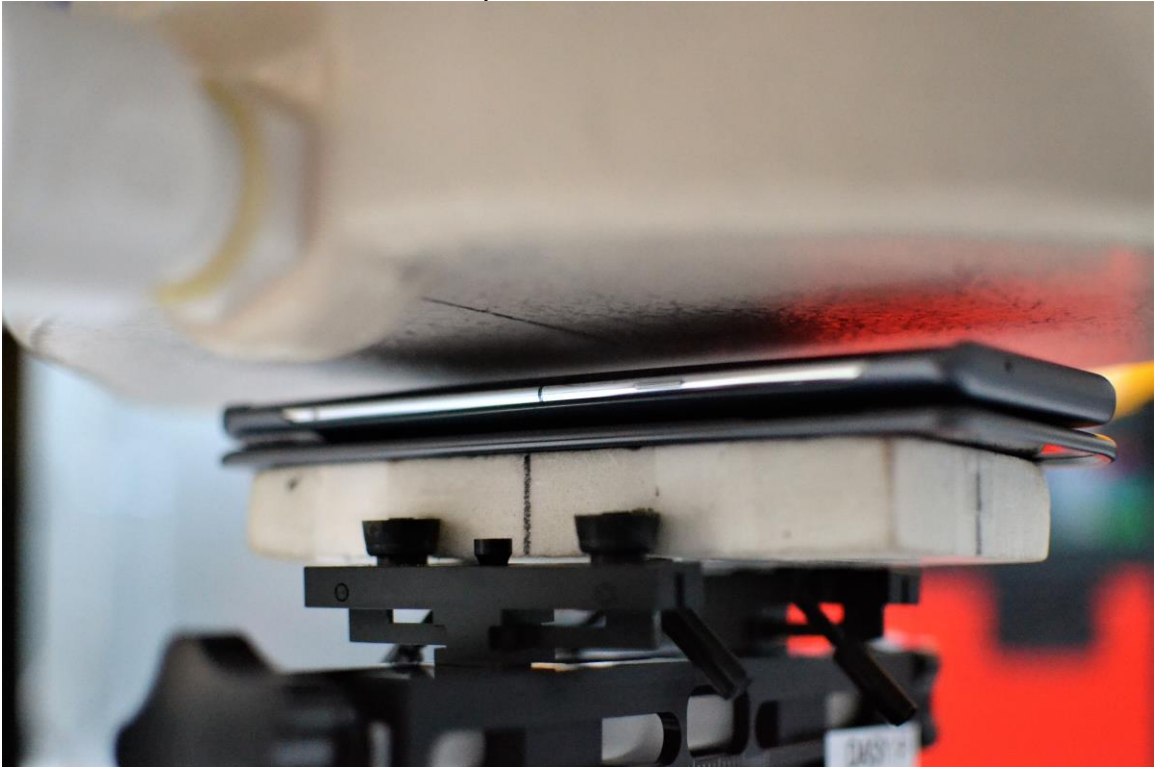


SAR Test Setup Photo 16 – Back Side with Dual Display Accessory Position #1 at 0 mm

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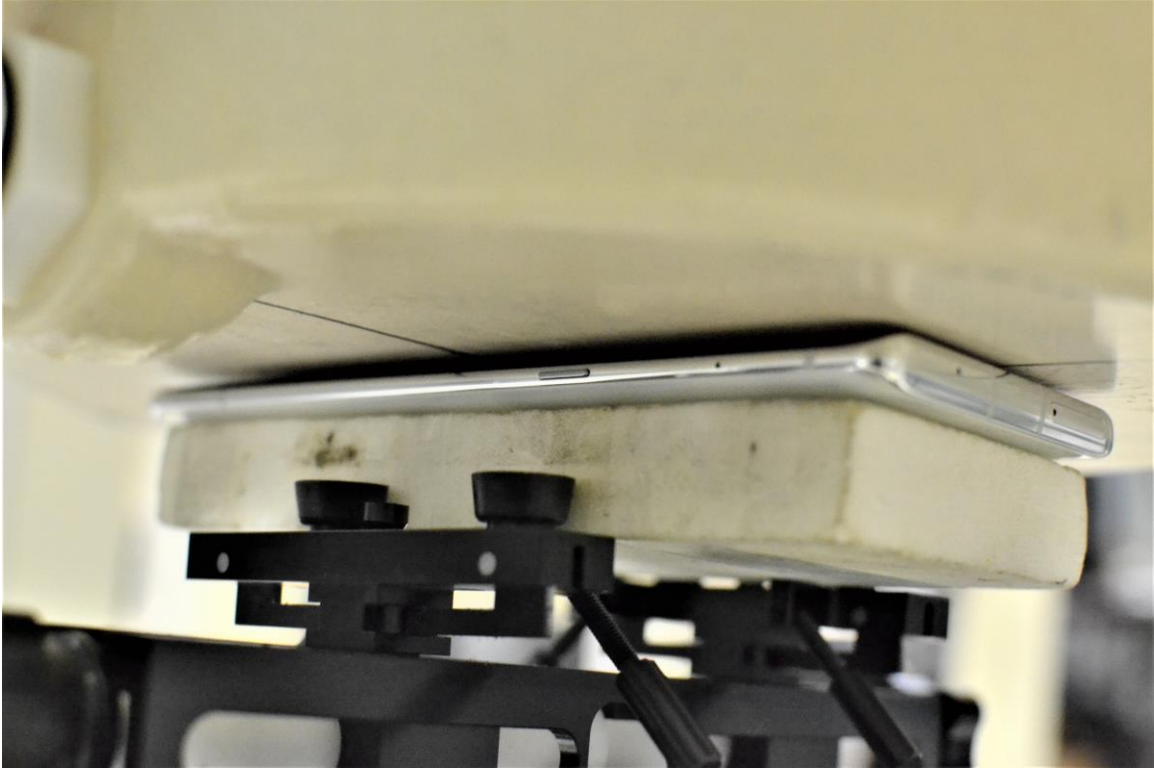


SAR Test Setup Photo 17 – Front Side at 10 mm



SAR Test Setup Photo 18 – Front Side with Dual Display Accessory Position #3 at 10 mm

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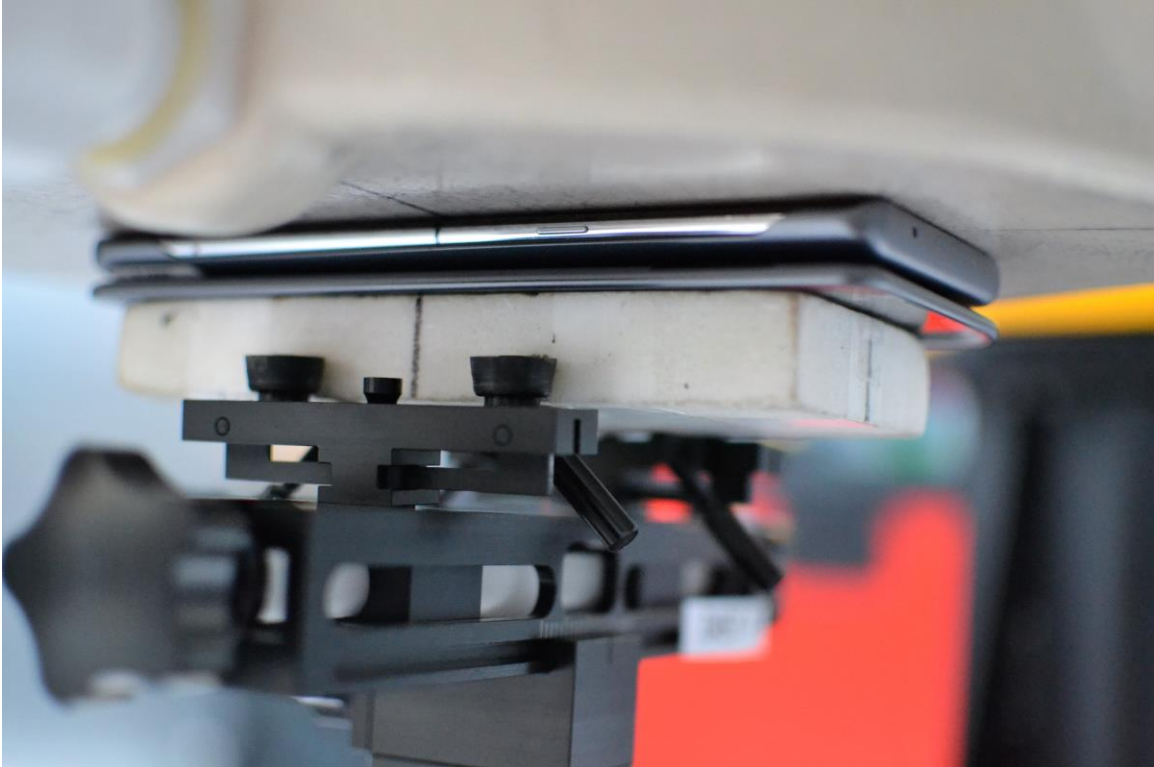


SAR Test Setup Photo 19 – Front Side at 1 mm

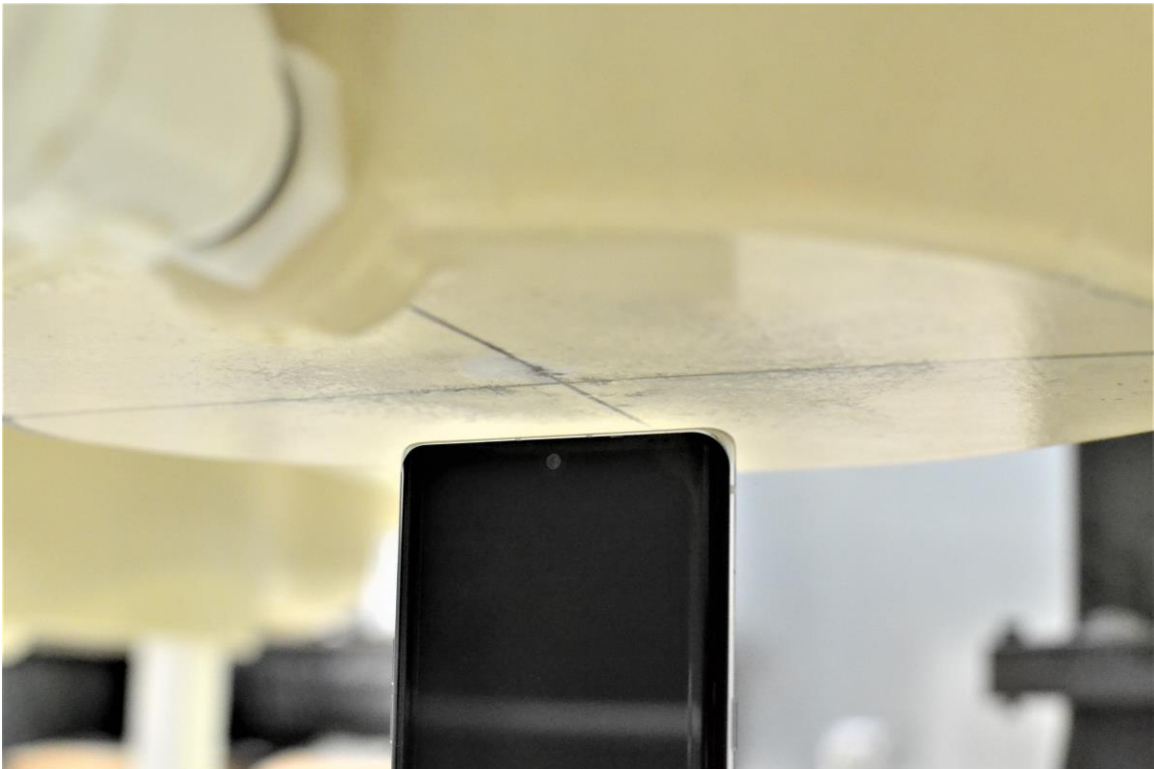


SAR Test Setup Photo 20 – Front Side at 0 mm

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SAR Test Setup Photo 21 – Front Side with Dual Display Accessory Position #3 at 0 mm

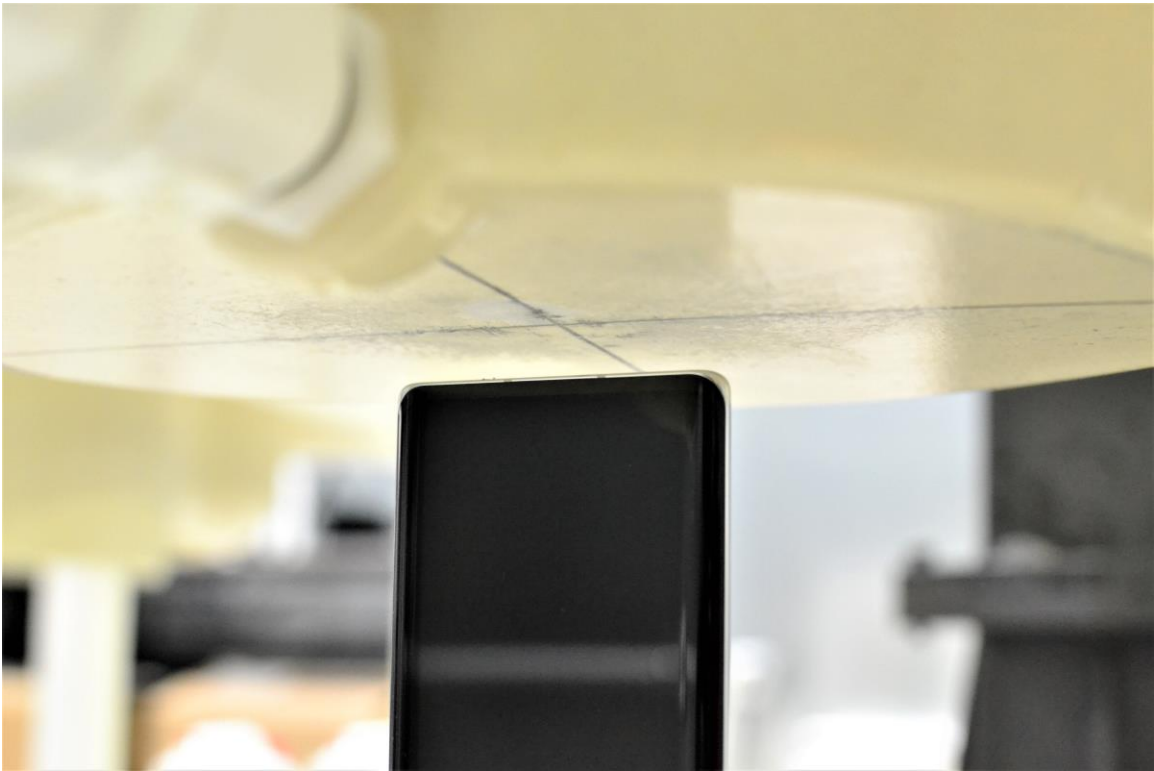


SAR Test Setup Photo 22 – Top Edge at 10 mm

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SAR Test Setup Photo 23 – Top Edge at 0 mm

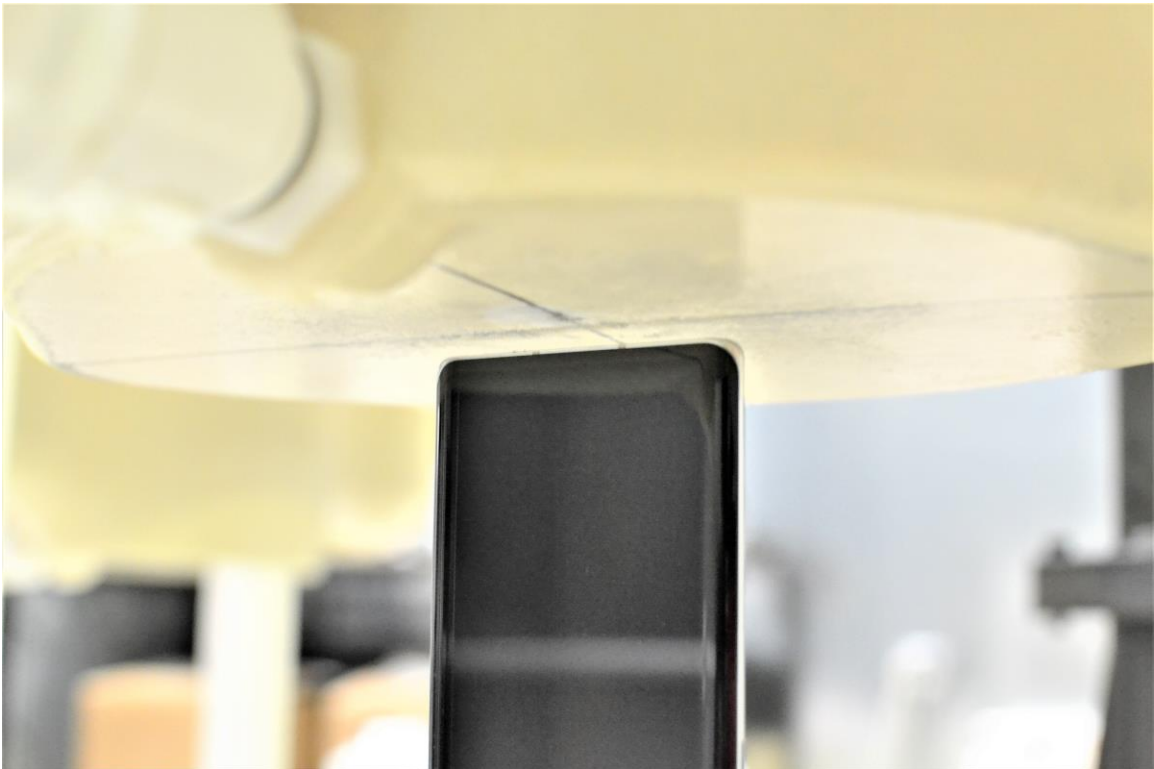


SAR Test Setup Photo 24 – Bottom Edge at 10 mm

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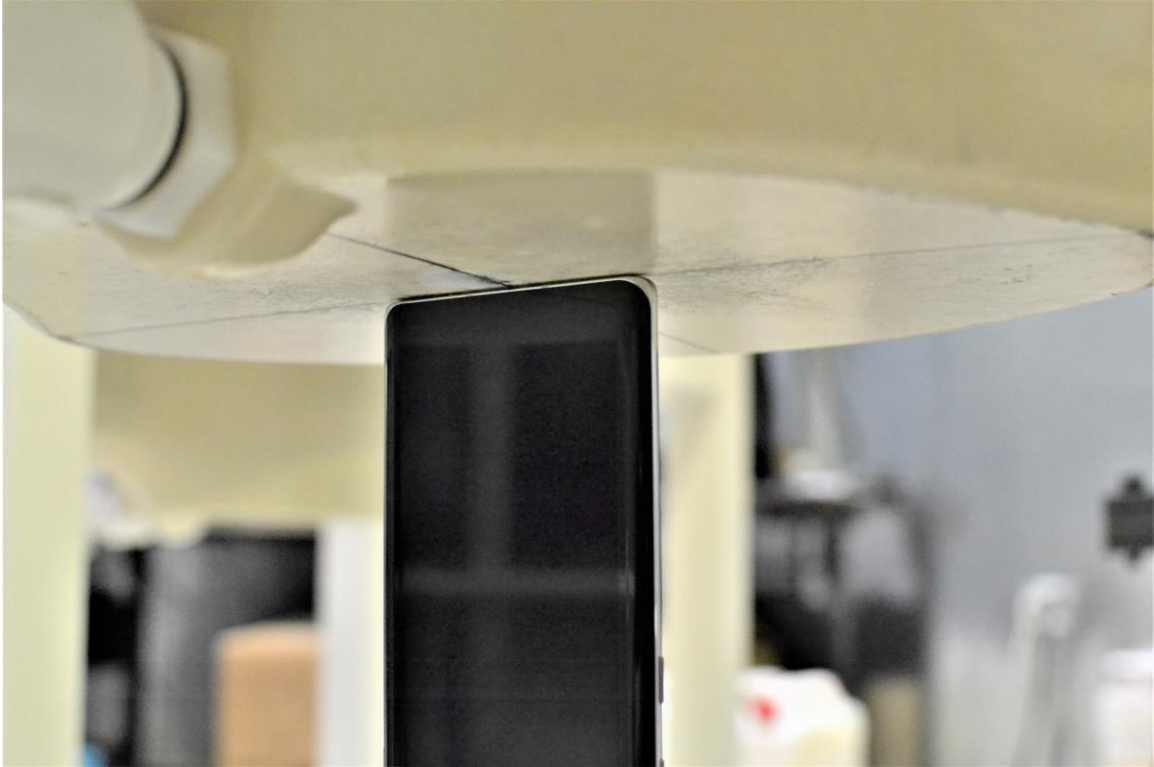


SAR Test Setup Photo 25 – Bottom Edge with Dual Display Accessory Position #1 at 10 mm



SAR Test Setup Photo 26 – Bottom Edge at 4 mm

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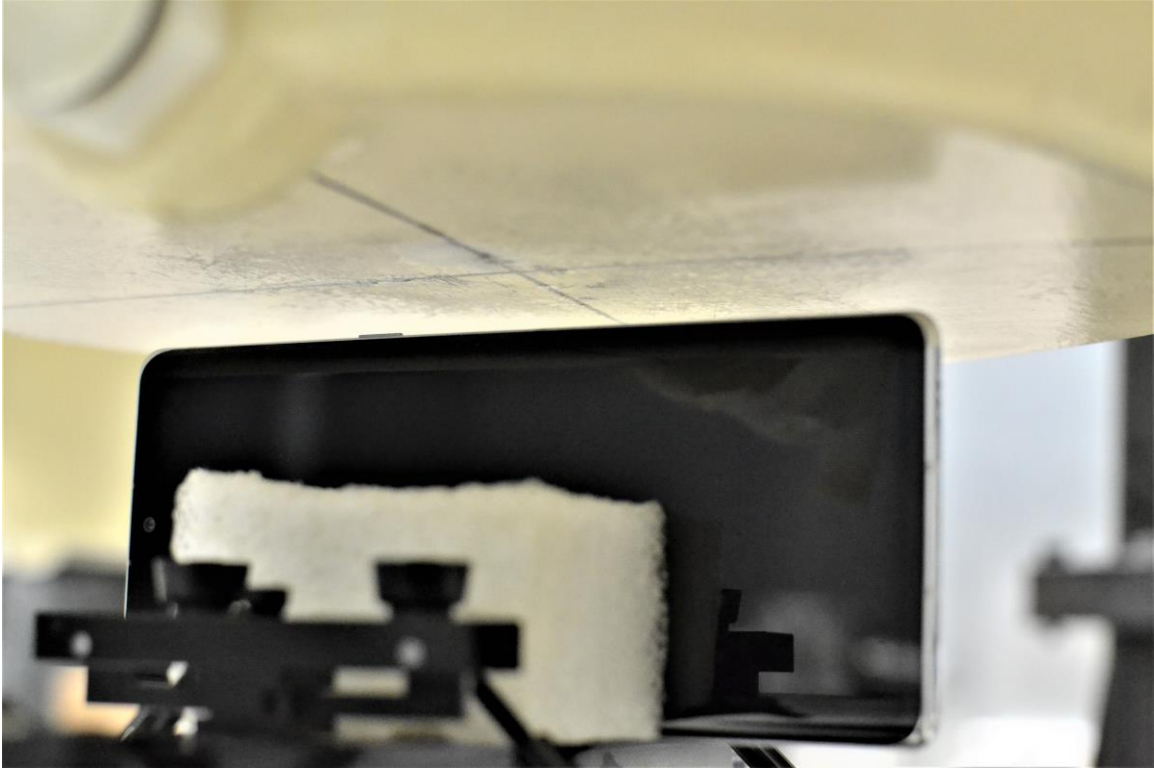


SAR Test Setup Photo 27 – Bottom Edge at 0 mm



SAR Test Setup Photo 28 – Bottom Edge with Dual Display Accessory Position #1 at 0 mm

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SAR Test Setup Photo 29 – Right Edge at 10 mm

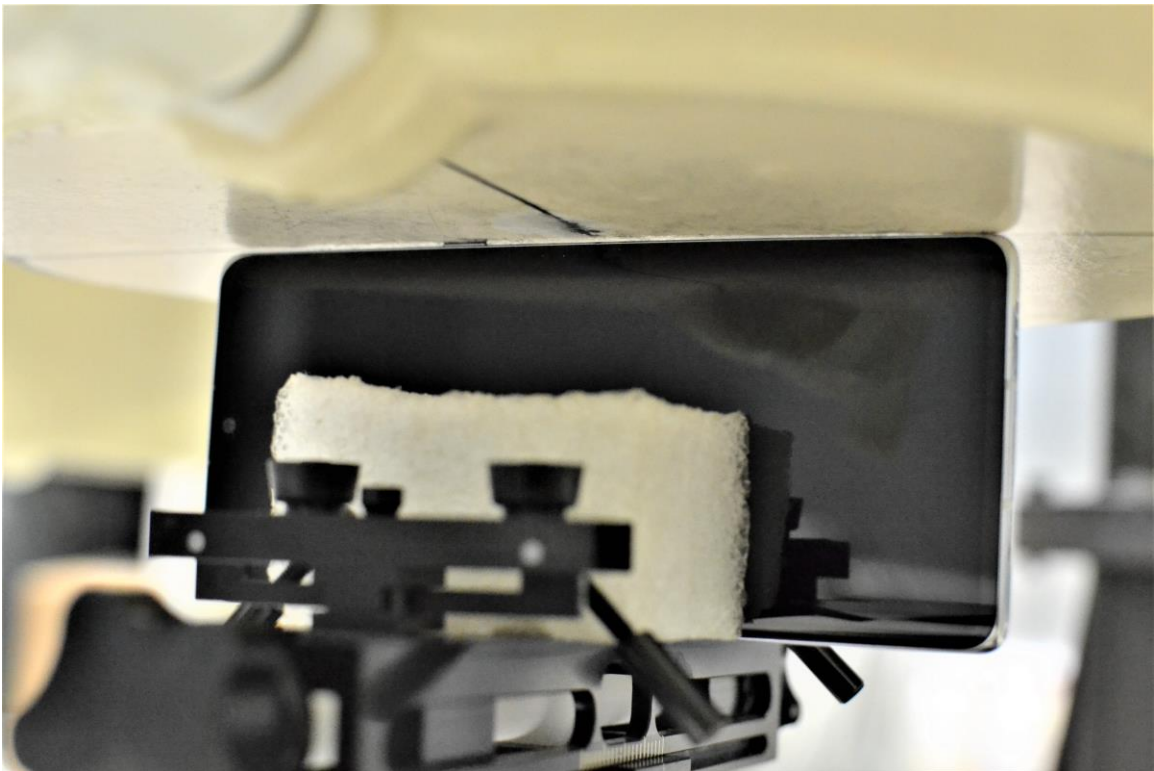


SAR Test Setup Photo 30 – Right Edge with Dual Display Accessory Position #1 at 10 mm

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SAR Test Setup Photo 31 – Right Edge with Dual Display Accessory Position #3 at 10 mm



SAR Test Setup Photo 32 – Right Edge at 0 mm

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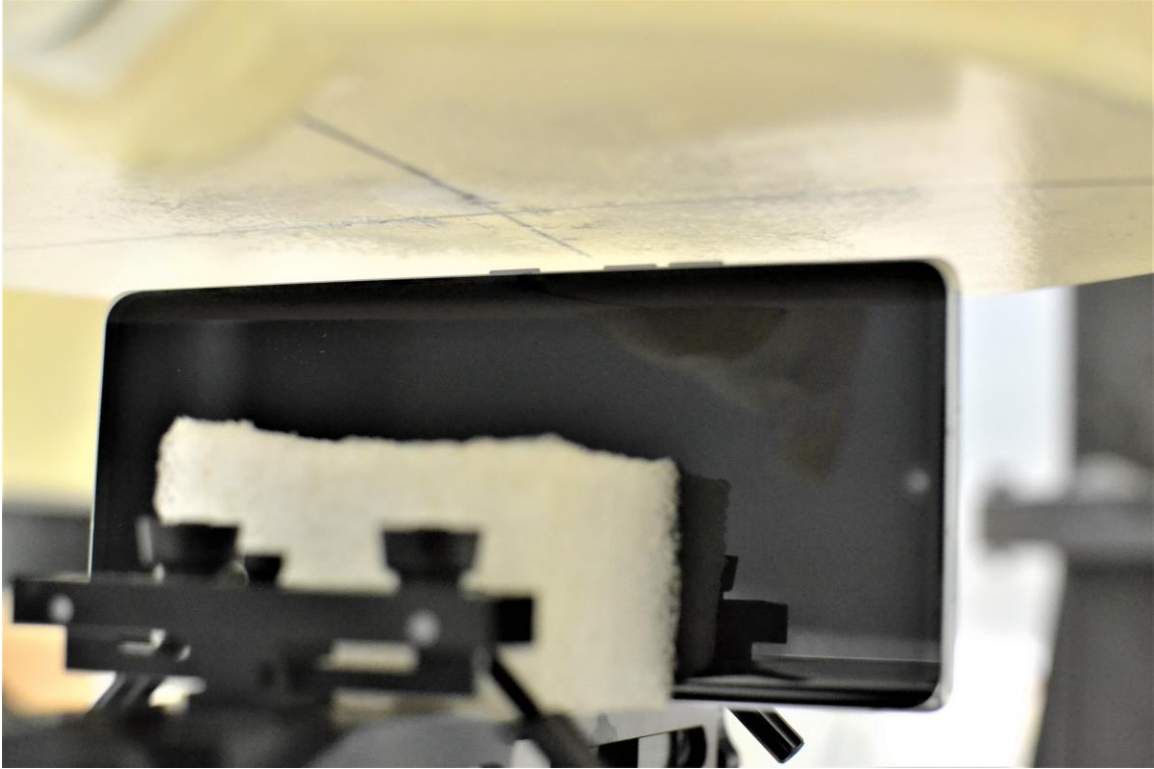


SAR Test Setup Photo 33 – Right Edge with Dual Display Accessory Position #1 at 0 mm



SAR Test Setup Photo 34 – Right Edge with Dual Display Accessory Position #3 at 0 mm

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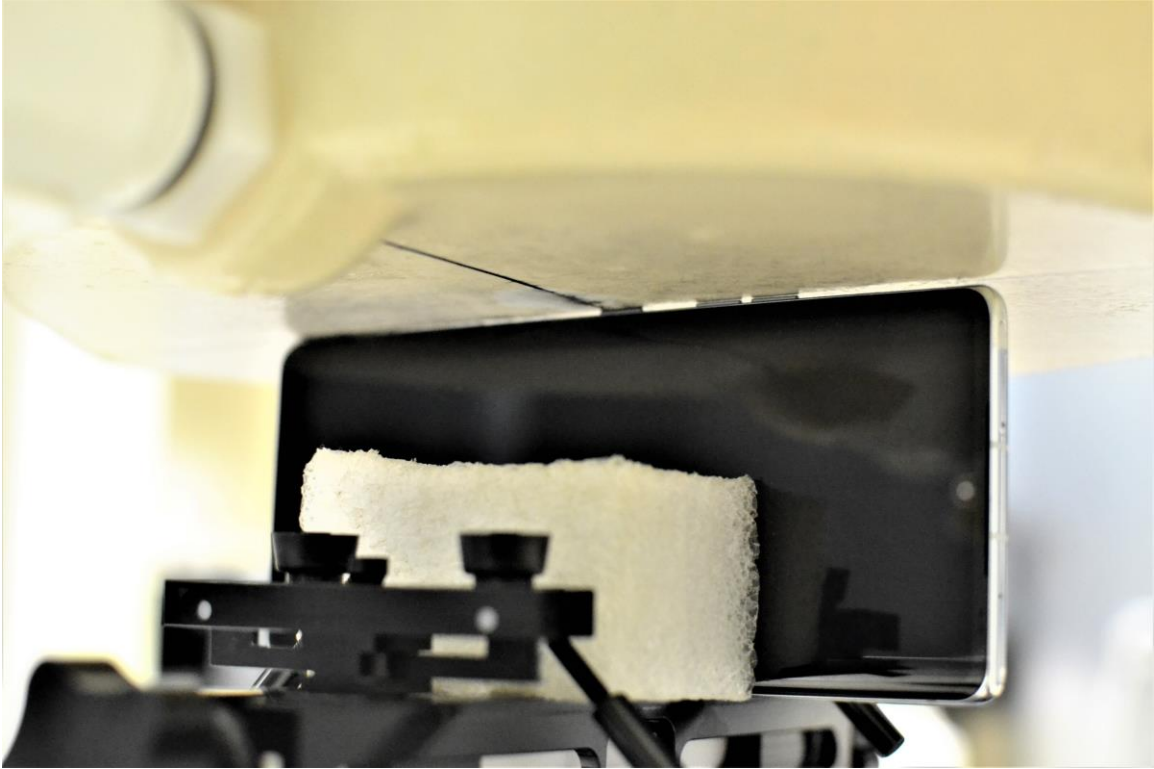


SAR Test Setup Photo 35 – Left Edge at 10 mm



SAR Test Setup Photo 36 – Left Edge with Dual Display Accessory Position #1 at 10 mm

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SAR Test Setup Photo 37 – Left Edge at 0 mm



SAR Test Setup Photo 38 – Left Edge with Dual Display Accessory Position #1 at 0 mm

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Horizontal Reference Line



Vertical Reference Line

SAR Test Setup Photo 39: Horizontal and Vertical Reference Lines

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