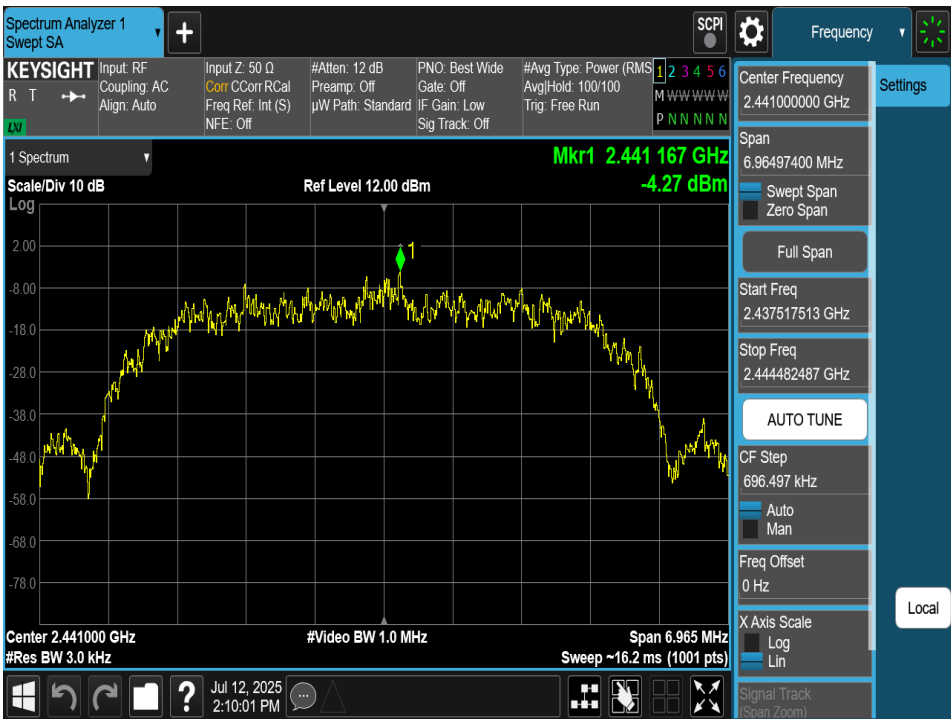
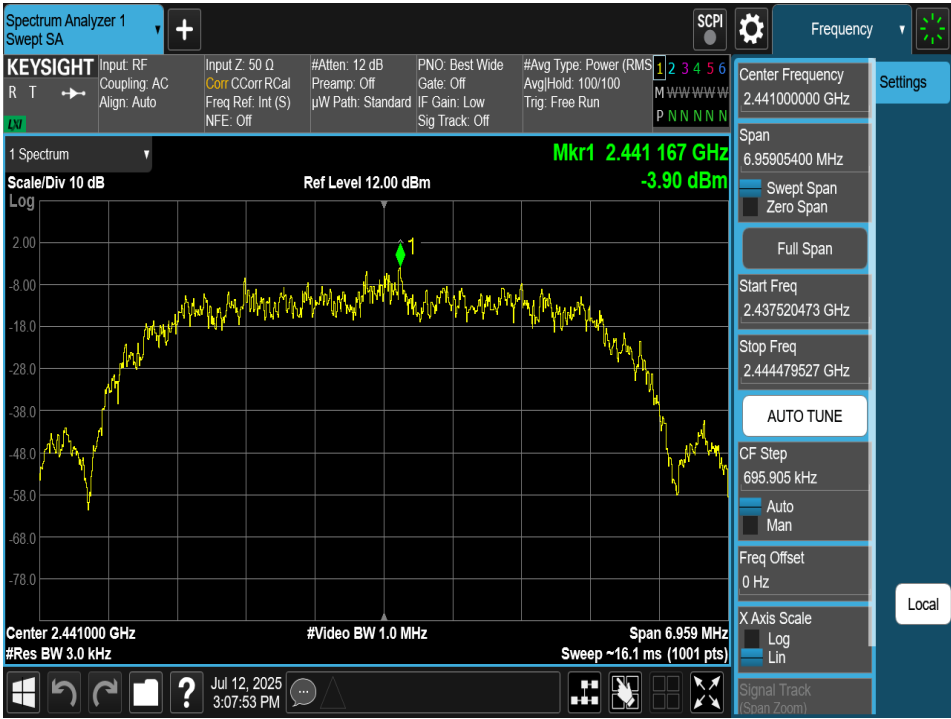


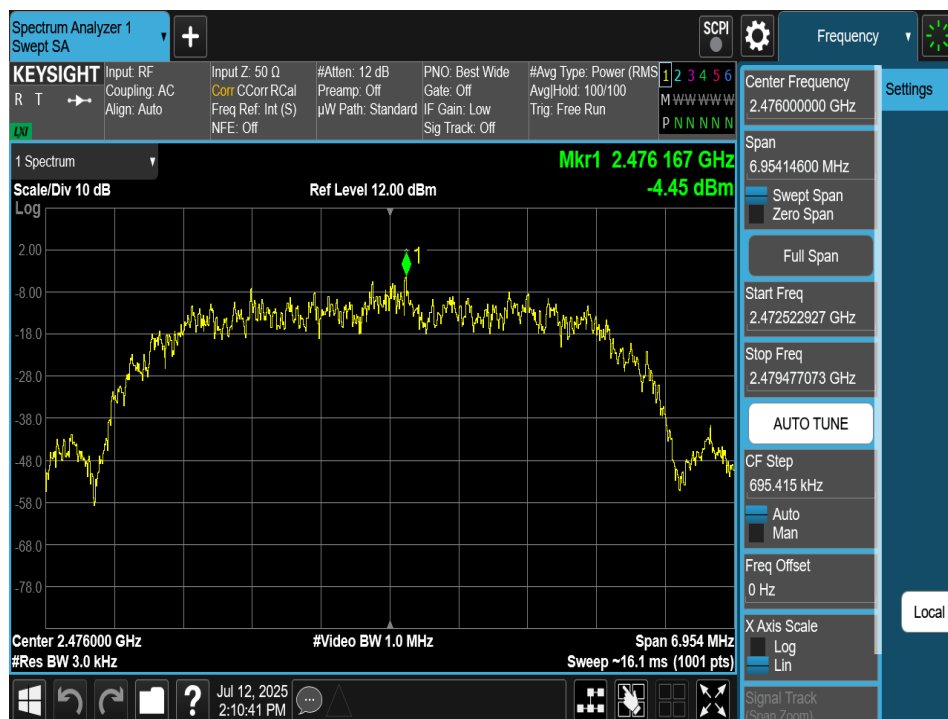


Plot 7-123. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 38)

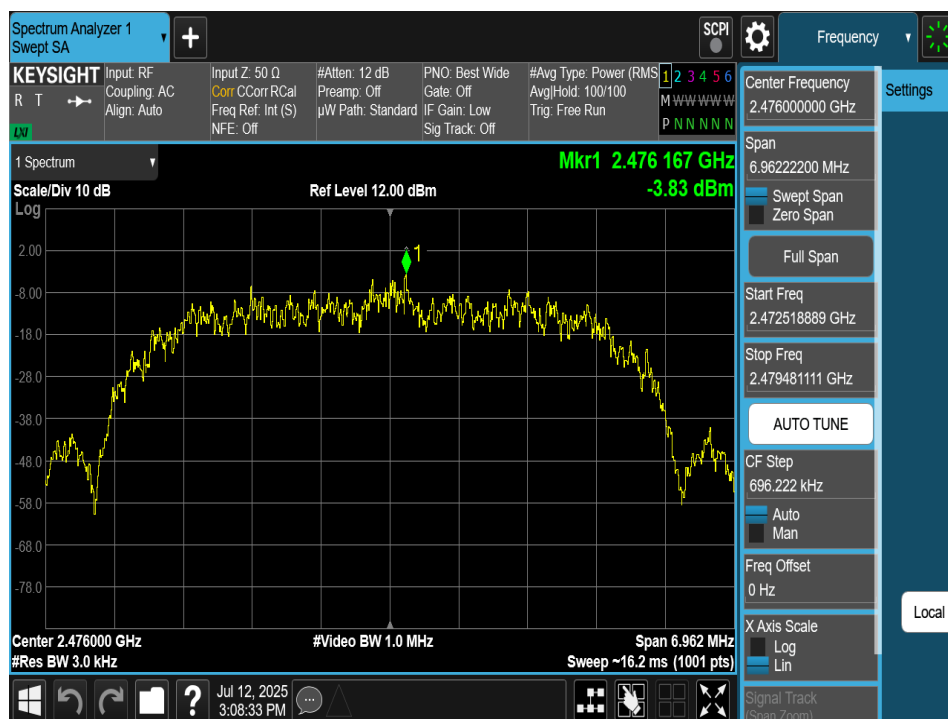


Plot 7-124. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 38)

|                                            |                                        |                                       |                                   |
|--------------------------------------------|----------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA3361<br>IC: 579C-A3361         | element                                | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2504170041-16-R2.BCG | Test Dates:<br>05/12/2025 - 07/19/2025 | EUT Type:<br>Tablet Device            | Page 92 of 199                    |

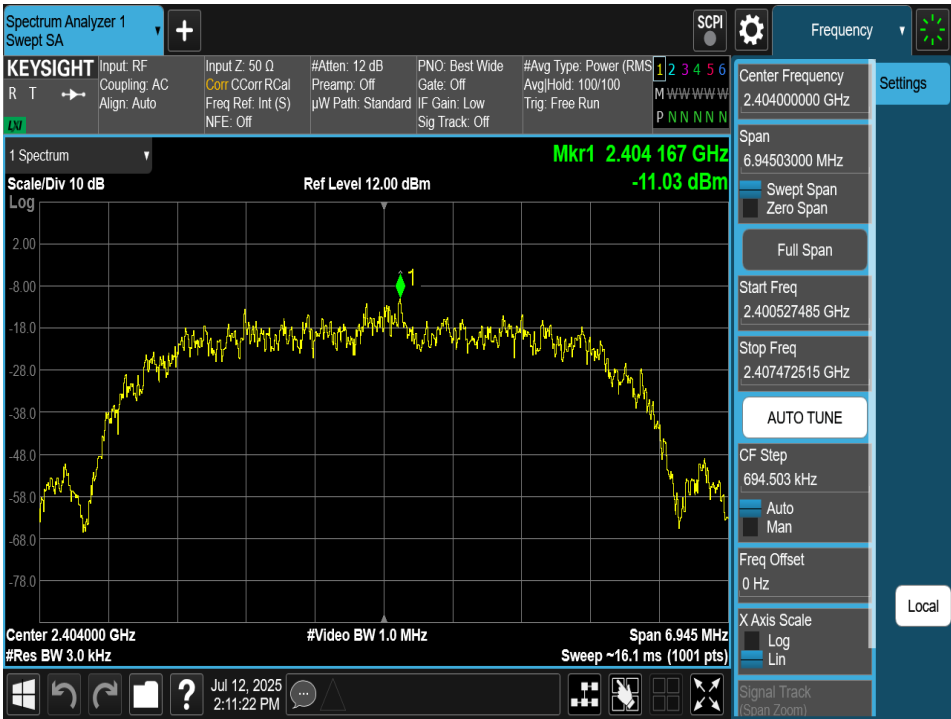


Plot 7-125. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 73)

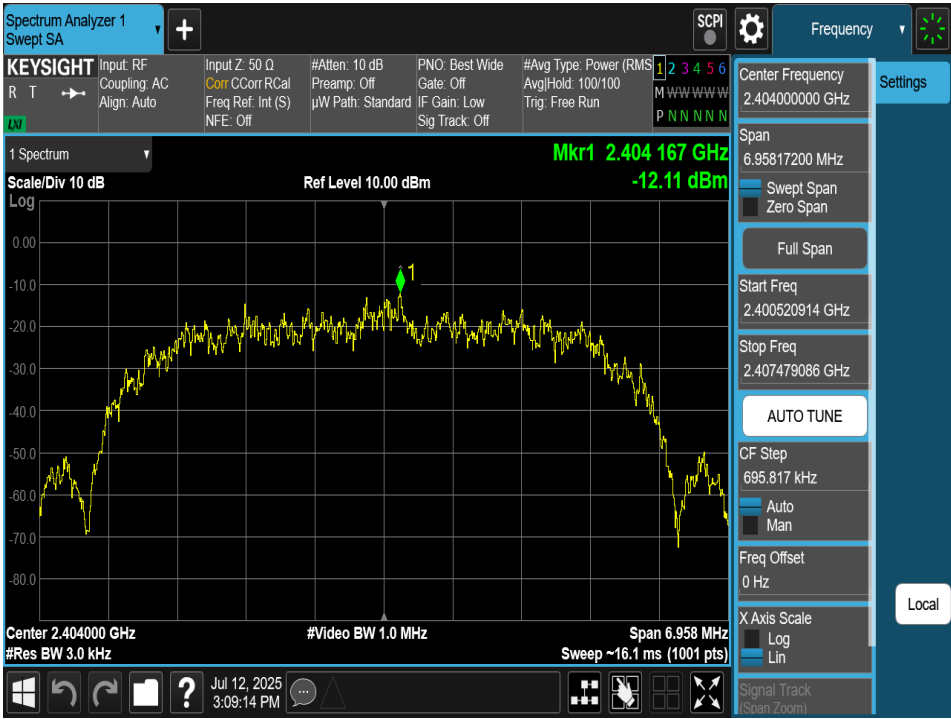


Plot 7-126. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 73)

|                                            |                                                                                     |                                       |                                   |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA3361<br>IC: 579C-A3361         |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2504170041-16-R2.BCG | Test Dates:<br>05/12/2025 - 07/19/2025                                              | EUT Type:<br>Tablet Device            | Page 93 of 199                    |

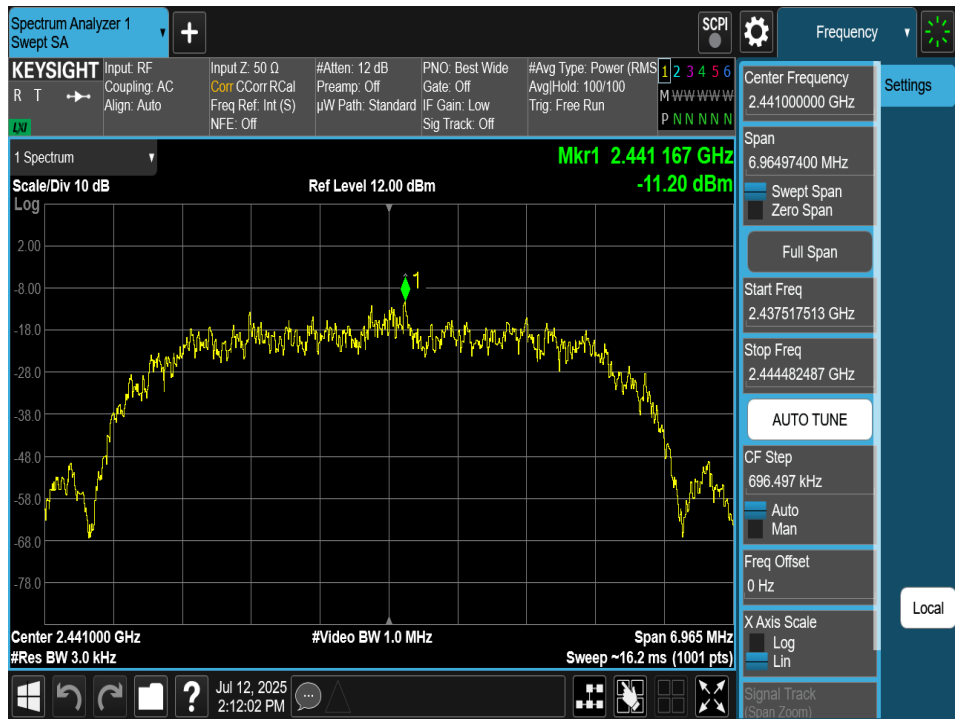


Plot 7-127. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDR8), 8Mbps, iPA – Ch. 1)

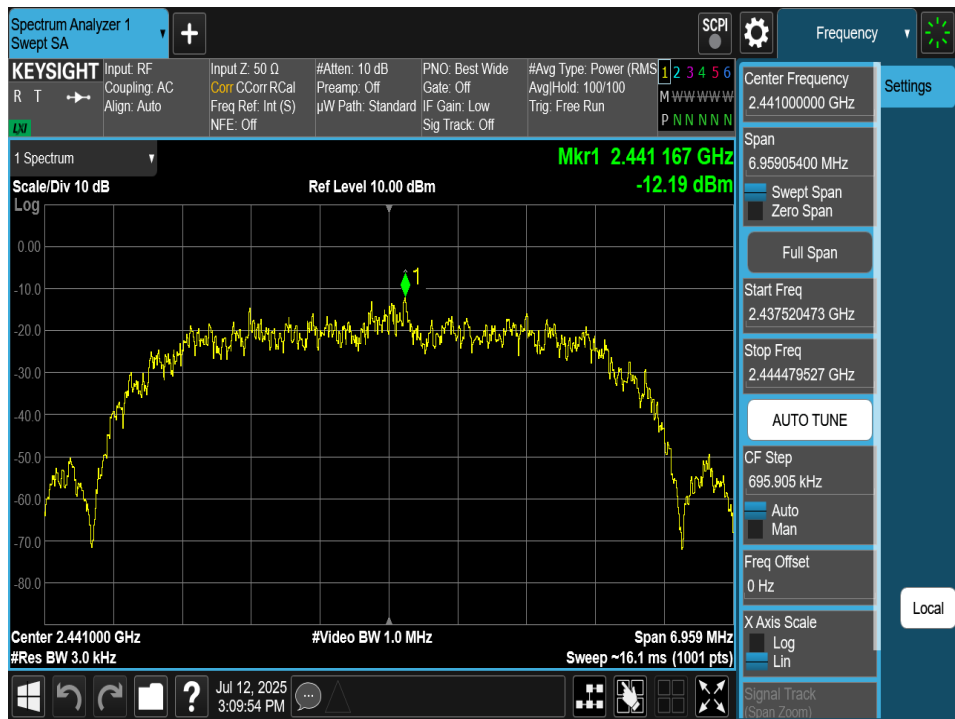


Plot 7-128. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDR8), 8Mbps, iPA – Ch. 1)

|                                            |                                                                                     |                                       |                                   |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA3361<br>IC: 579C-A3361         |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2504170041-16-R2.BCG | Test Dates:<br>05/12/2025 - 07/19/2025                                              | EUT Type:<br>Tablet Device            | Page 94 of 199                    |



Plot 7-129. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDR8), 8Mbps, iPA – Ch. 38)

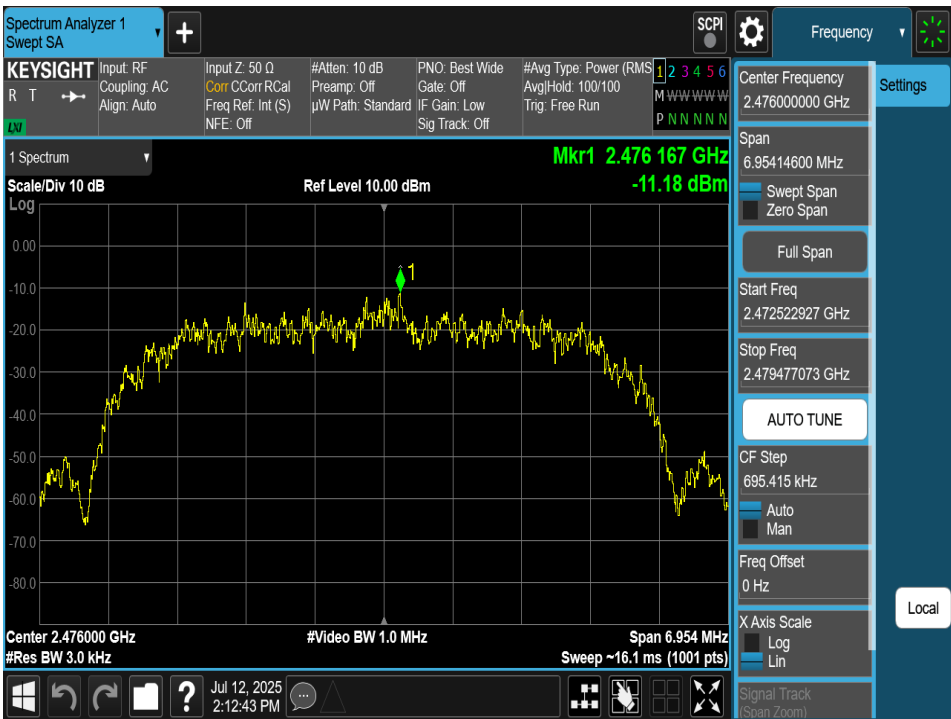


Plot 7-130. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDR8), 8Mbps, iPA – Ch. 38)

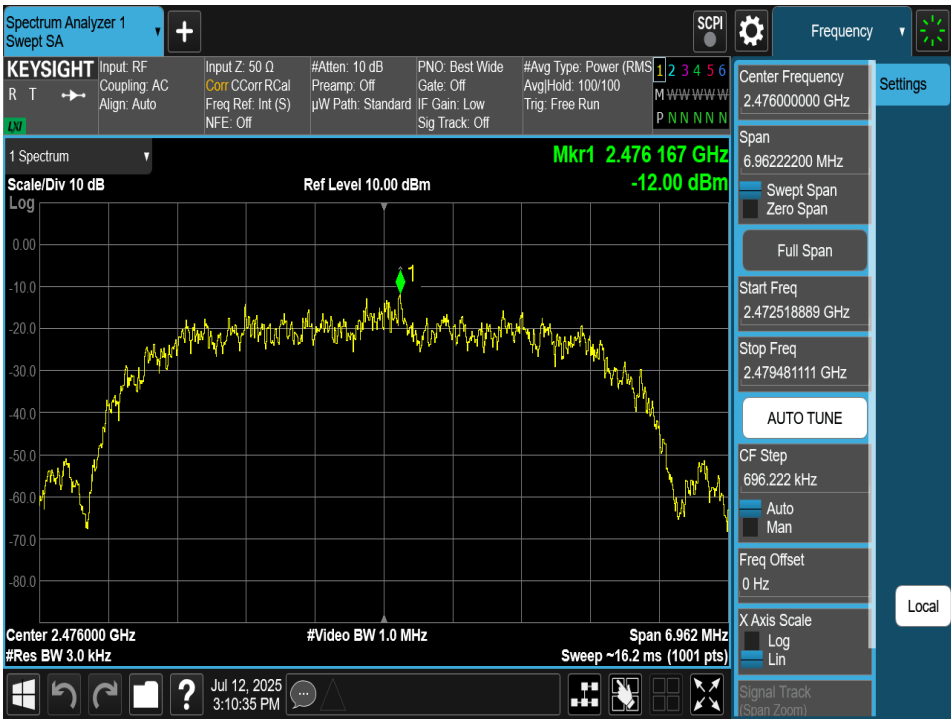
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|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA3361<br>IC: 579C-A3361         |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2504170041-16-R2.BCG | Test Dates:<br>05/12/2025 - 07/19/2025                                              | EUT Type:<br>Tablet Device            | Page 95 of 199                    |

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Plot 7-131. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDR8), 8Mbps, iPA – Ch. 73)

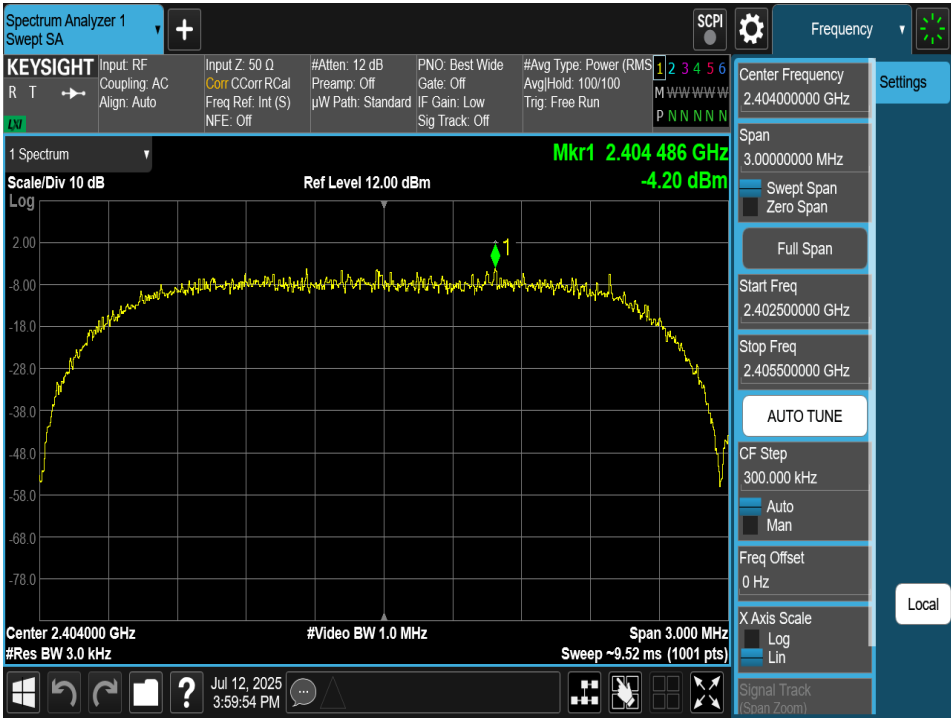


Plot 7-132. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDR8), 8Mbps, iPA – Ch. 73)

|                                            |                                        |                                       |                                   |
|--------------------------------------------|----------------------------------------|---------------------------------------|-----------------------------------|
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| Test Report S/N:<br>1C2504170041-16-R2.BCG | Test Dates:<br>05/12/2025 - 07/19/2025 | EUT Type:<br>Tablet Device            | Page 96 of 199                    |

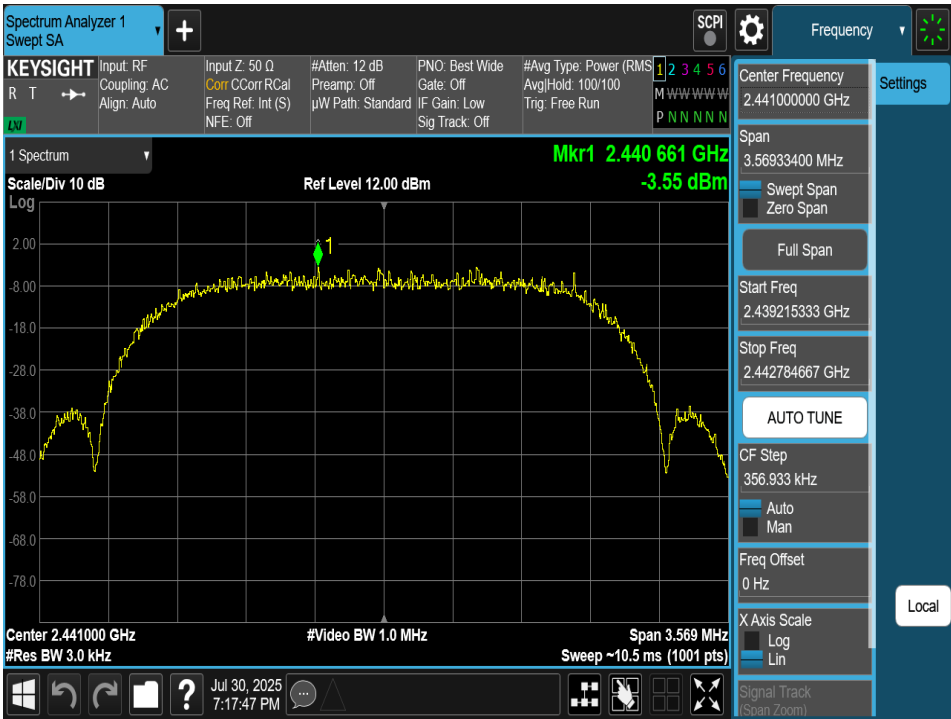


Plot 7-133. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 1)

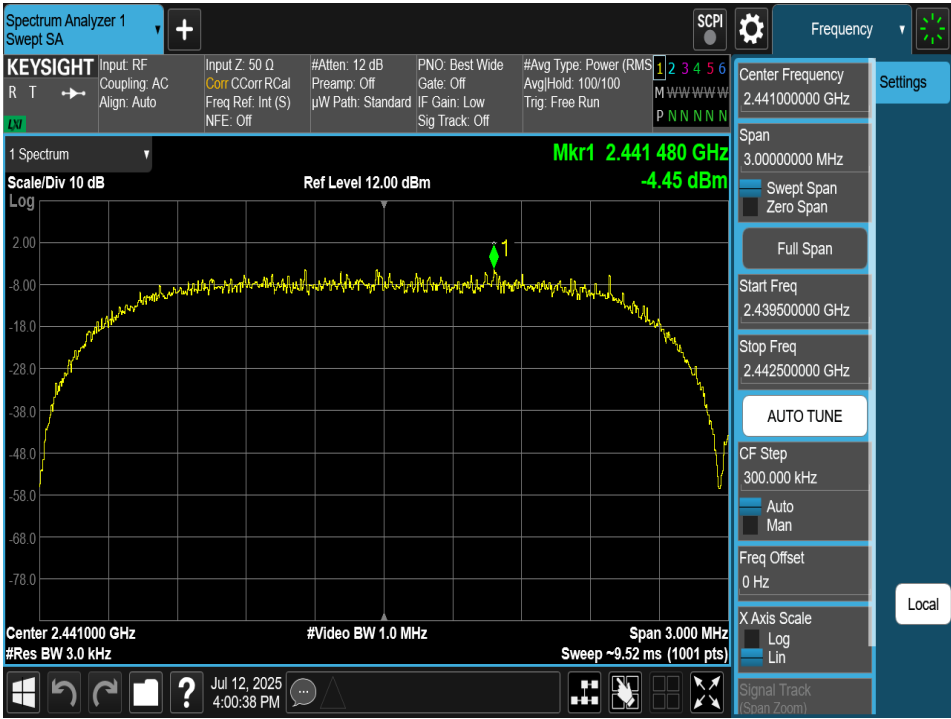


Plot 7-134. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 1)

|                                            |                                                                                                                           |                            |                                   |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------|
| FCC ID: BCGA3361<br>IC: 579C-A3361         |  MEASUREMENT REPORT<br>(CERTIFICATION) |                            | Approved by:<br>Technical Manager |
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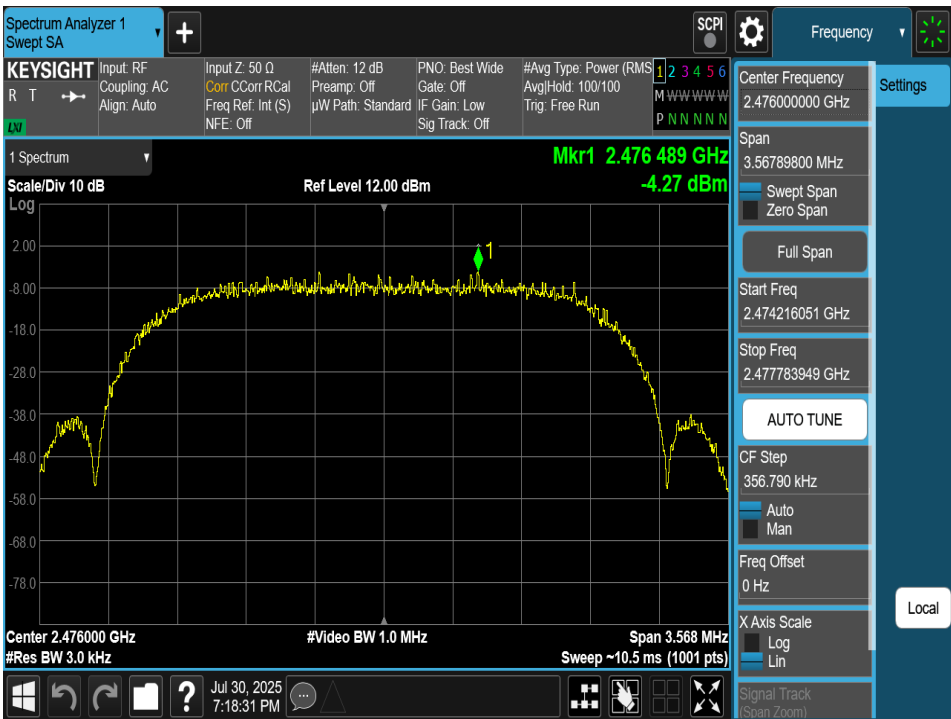


Plot 7-135. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 38)

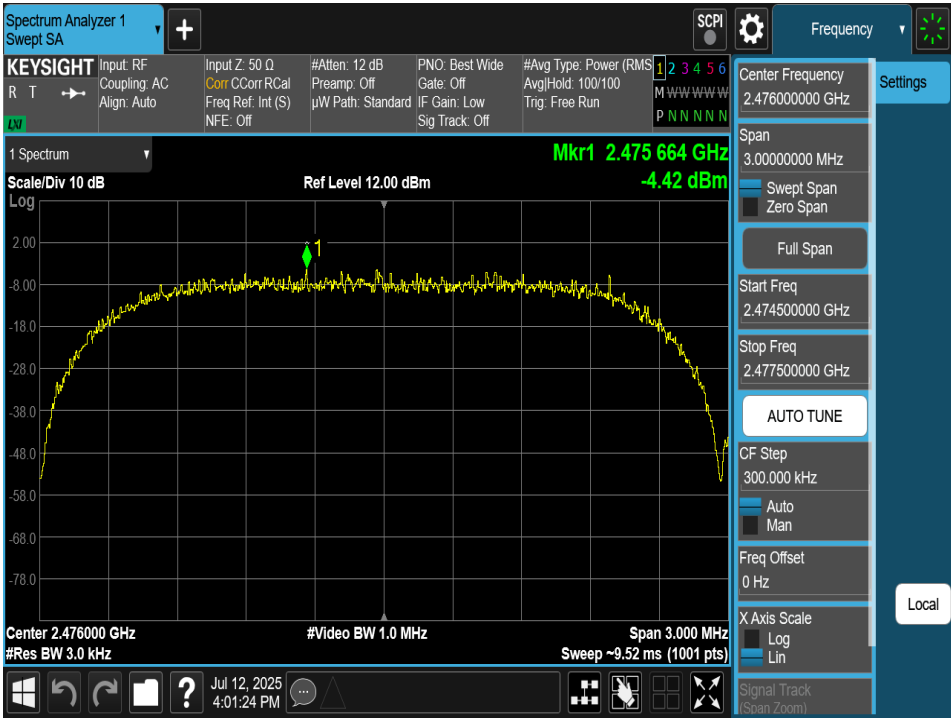


Plot 7-136. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 38)

|                                            |                                        |                                       |                                   |
|--------------------------------------------|----------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA3361<br>IC: 579C-A3361         | element                                | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2504170041-16-R2.BCG | Test Dates:<br>05/12/2025 - 07/19/2025 | EUT Type:<br>Tablet Device            | Page 98 of 199                    |

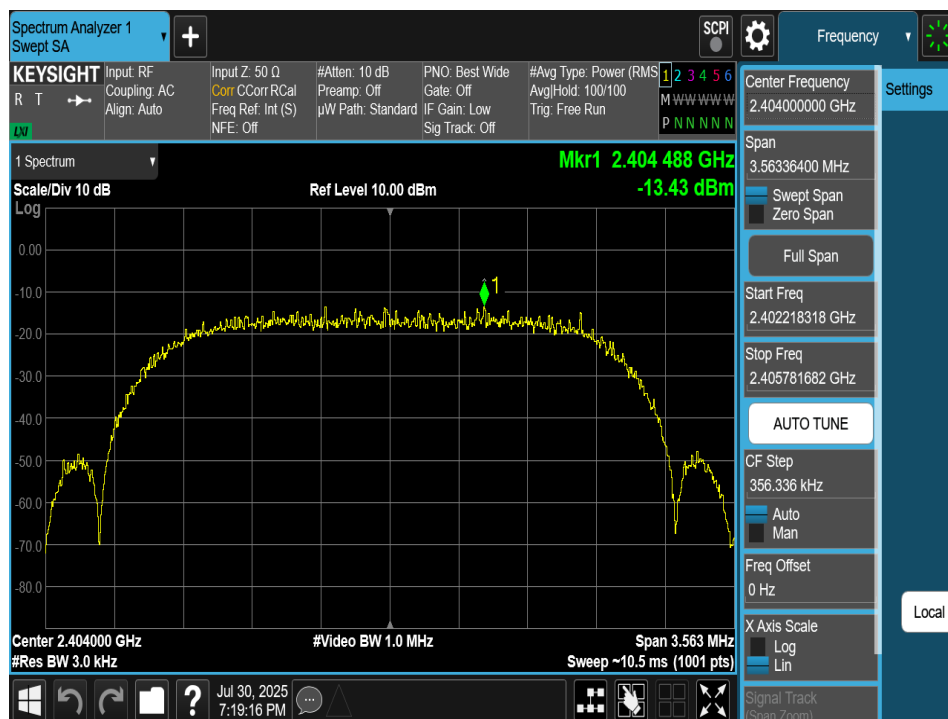


Plot 7-137. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 73)

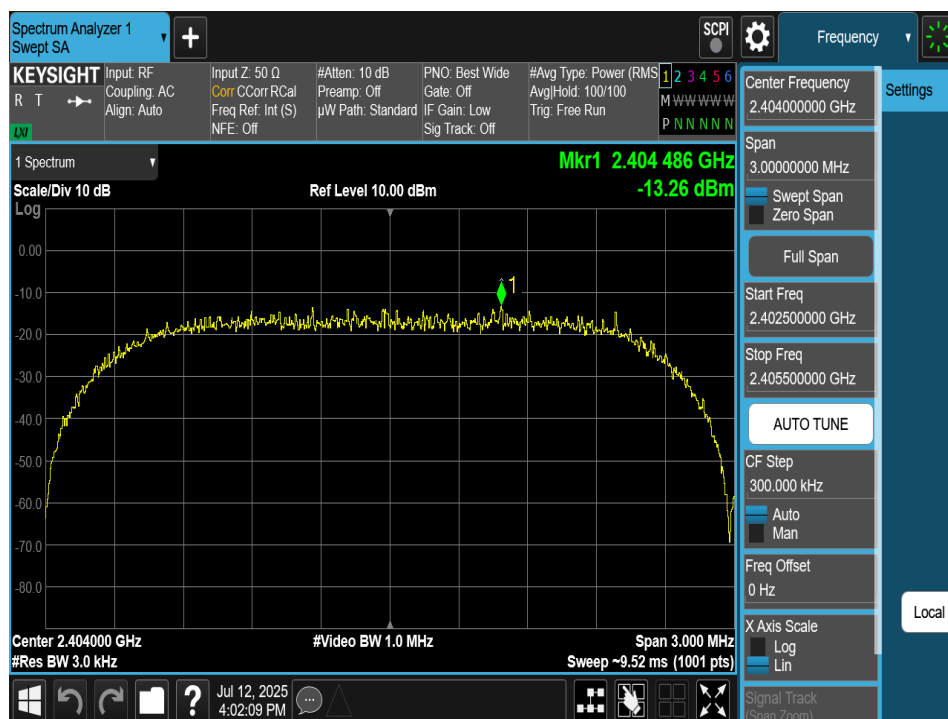


Plot 7-138. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 73)

|                                            |                                                                                                                                   |                            |                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------|
| FCC ID: BCGA3361<br>IC: 579C-A3361         |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Technical Manager |
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Plot 7-139. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDRPS2), 2Mbps, iPA – Ch. 1)

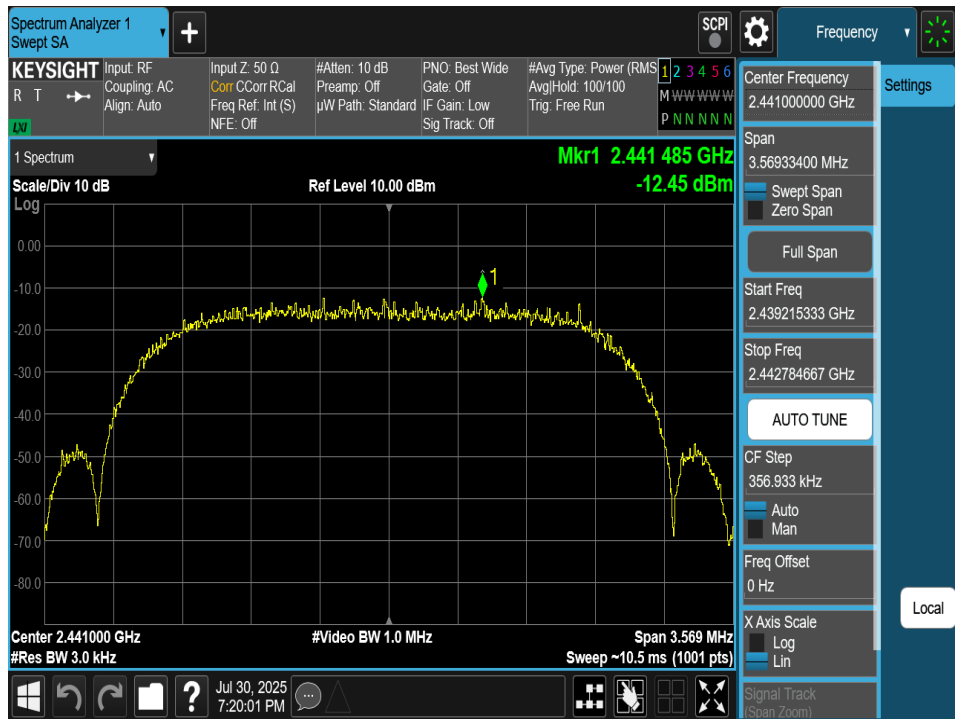


Plot 7-140. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDRPS2), 2Mbps, iPA – Ch. 1)

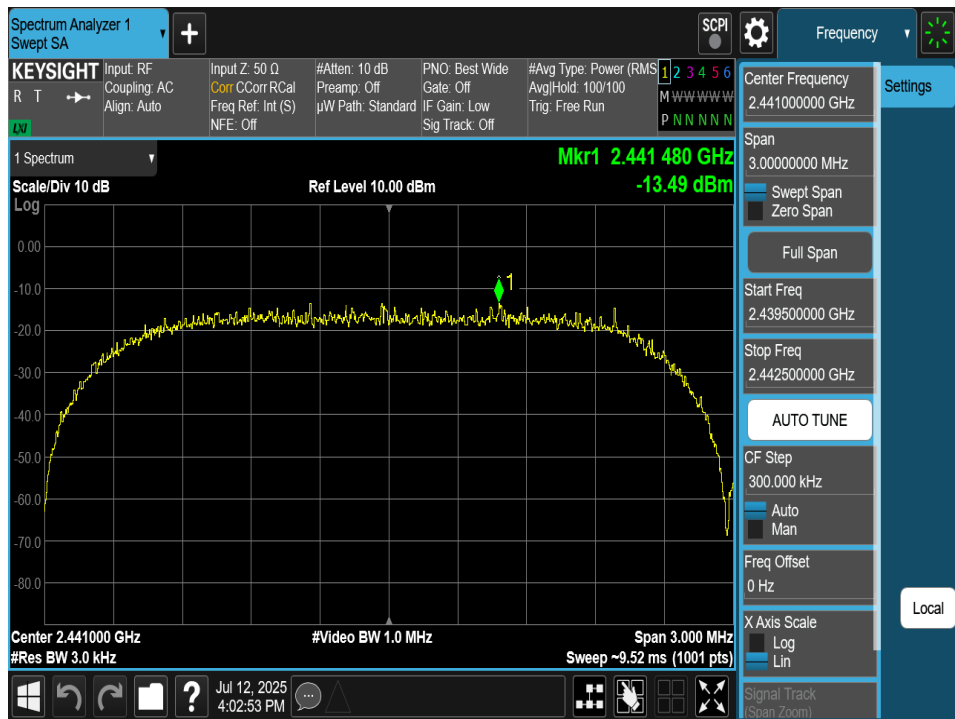
|                                            |                                                                                     |                                       |                                   |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
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Plot 7-141. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDRPS2), 2Mbps, iPA – Ch. 38)

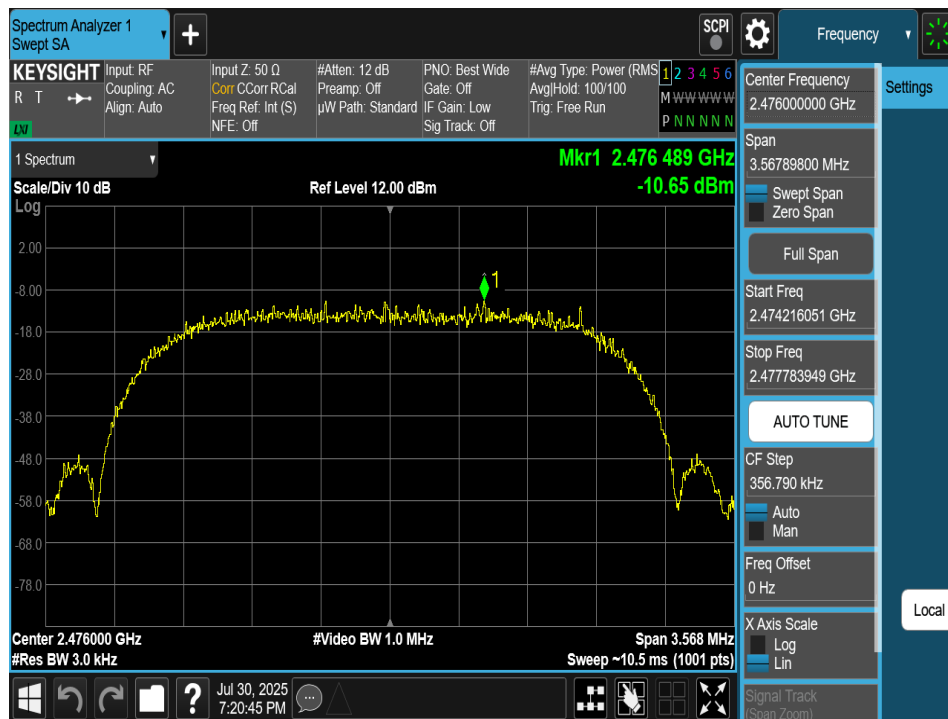


Plot 7-142. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDRPS2), 2Mbps, iPA – Ch. 38)

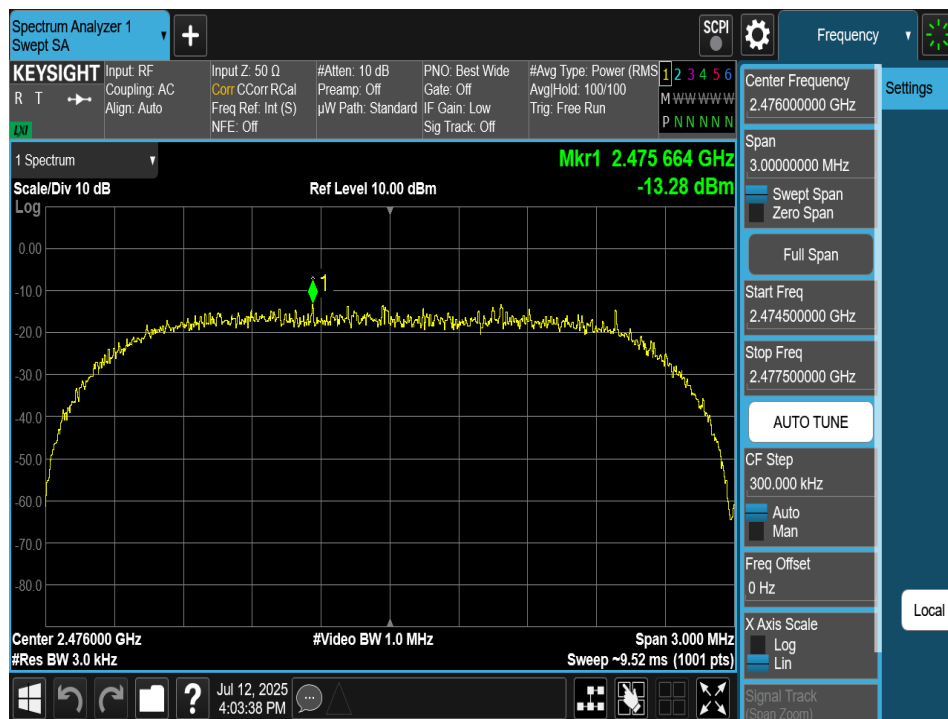
|                                            |                                                                                     |                                       |                                   |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA3361<br>IC: 579C-A3361         |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2504170041-16-R2.BCG | Test Dates:<br>05/12/2025 - 07/19/2025                                              | EUT Type:<br>Tablet Device            | Page 101 of 199                   |

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Plot 7-143. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDRPS2), 2Mbps, iPA – Ch. 73)

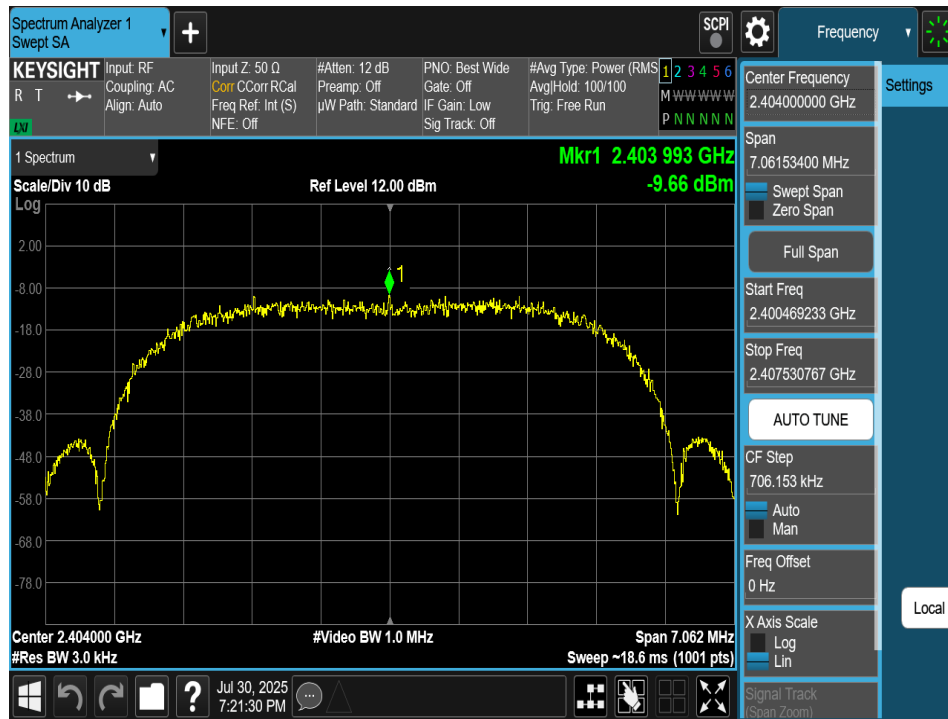


Plot 7-144. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDRPS2), 2Mbps, iPA – Ch. 73)

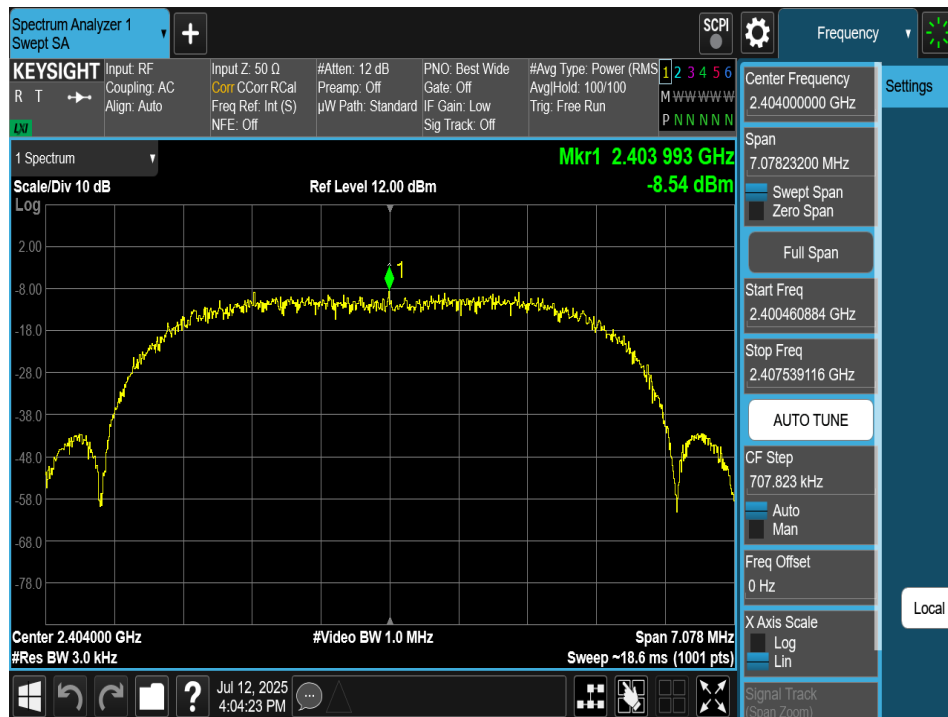
|                                            |                                                                                     |                                       |                                   |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA3361<br>IC: 579C-A3361         |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
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Plot 7-145. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 1)

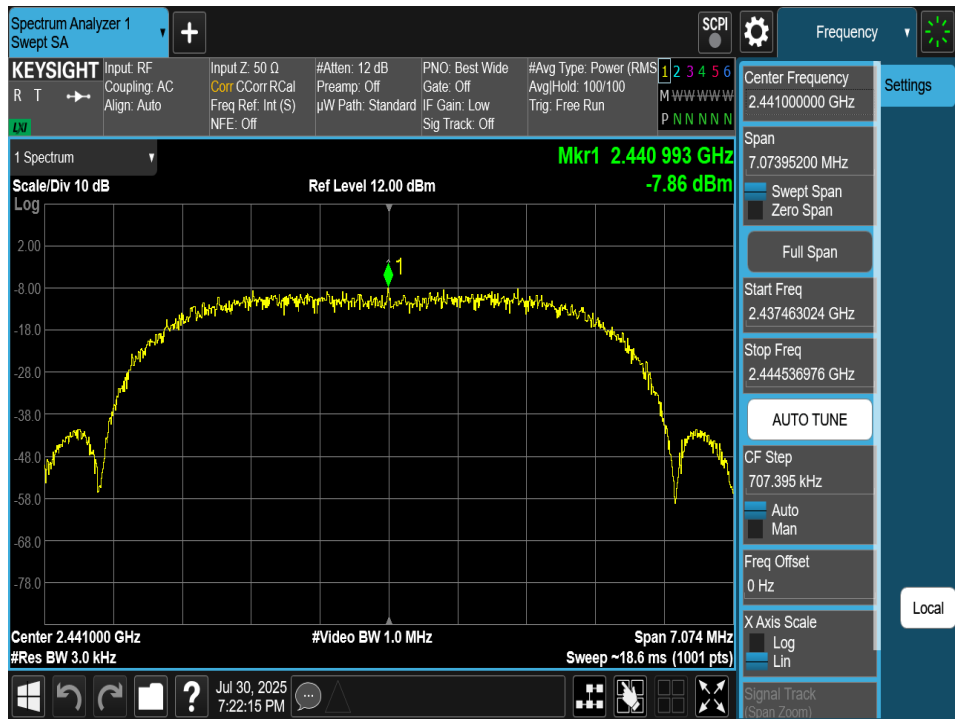


Plot 7-146. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 1)

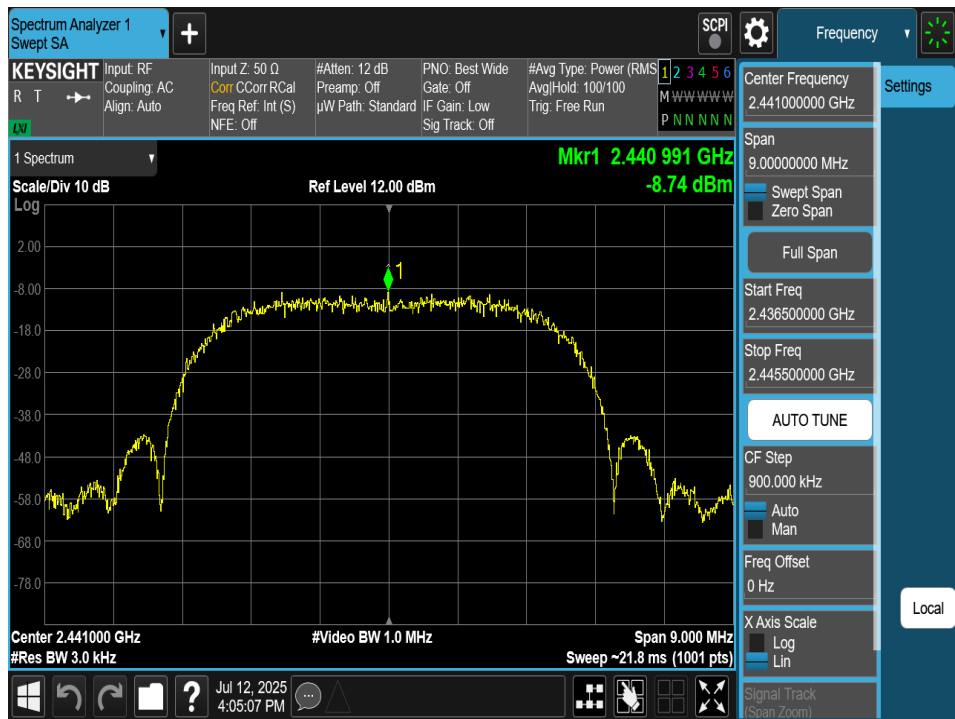
|                                            |                                                                                     |                                       |  |                                   |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|--|-----------------------------------|
| FCC ID: BCGA3361<br>IC: 579C-A3361         |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2504170041-16-R2.BCG | Test Dates:<br>05/12/2025 - 07/19/2025                                              | EUT Type:<br>Tablet Device            |  | Page 103 of 199                   |

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Plot 7-147. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 38)

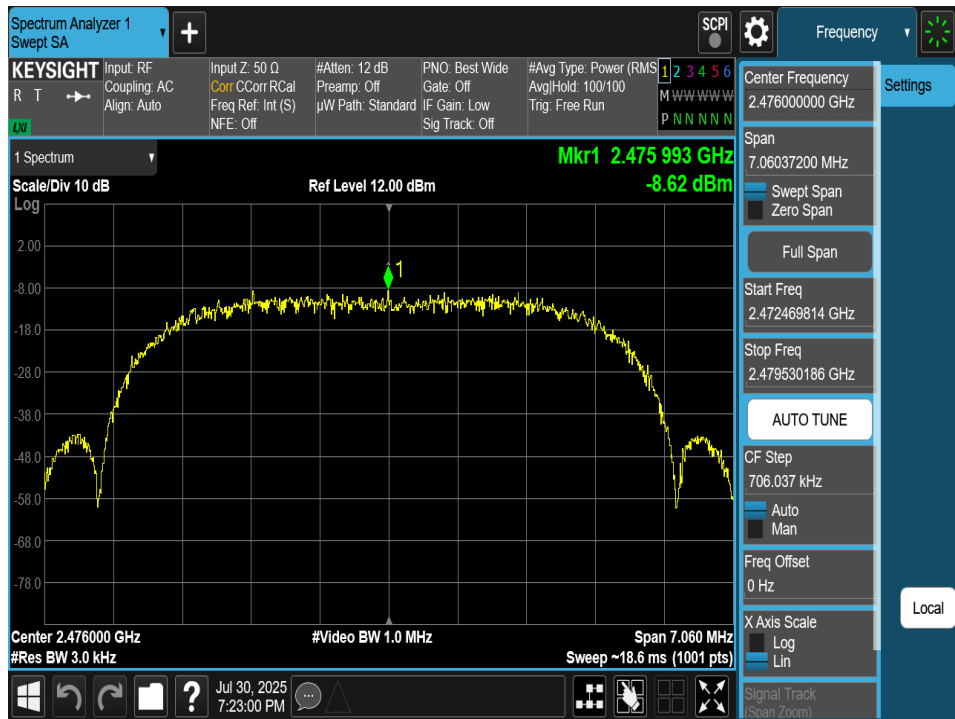


Plot 7-148. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 38)

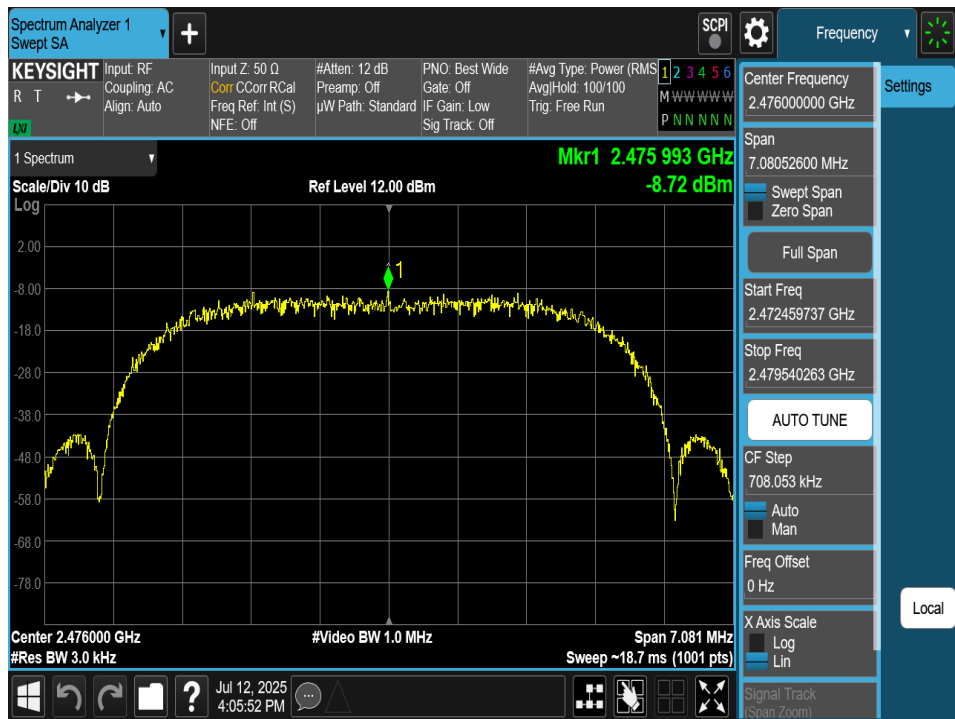
|                                            |                                                                                     |                                       |                                   |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA3361<br>IC: 579C-A3361         |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2504170041-16-R2.BCG | Test Dates:<br>05/12/2025 - 07/19/2025                                              | EUT Type:<br>Tablet Device            | Page 104 of 199                   |

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Plot 7-149. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 73)

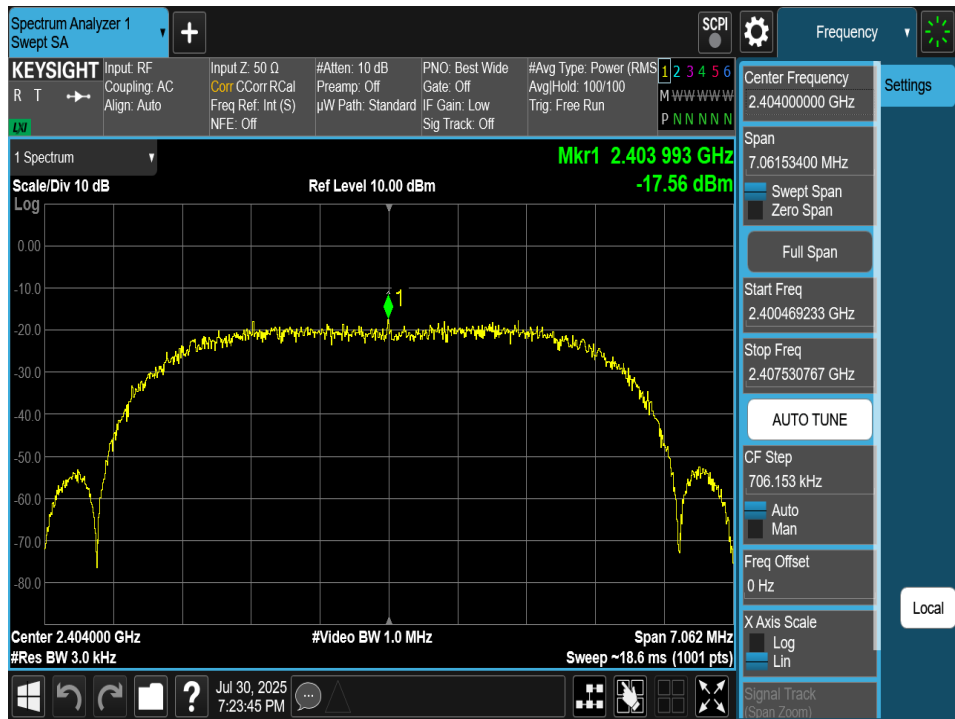


Plot 7-150. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 73)

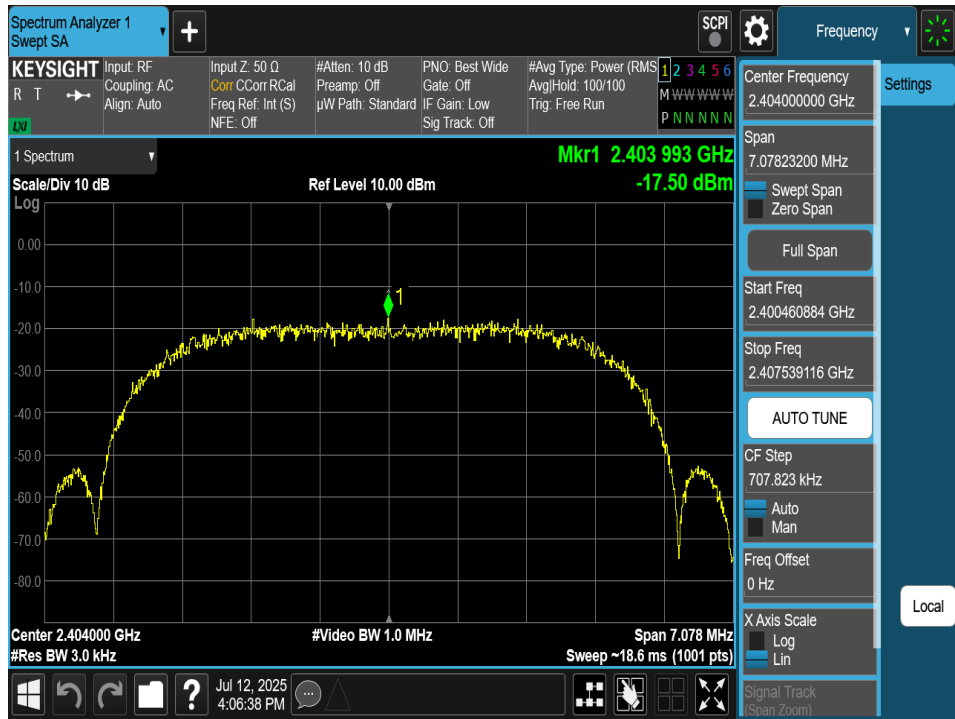
|                                            |                                                                                     |                                       |                                   |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
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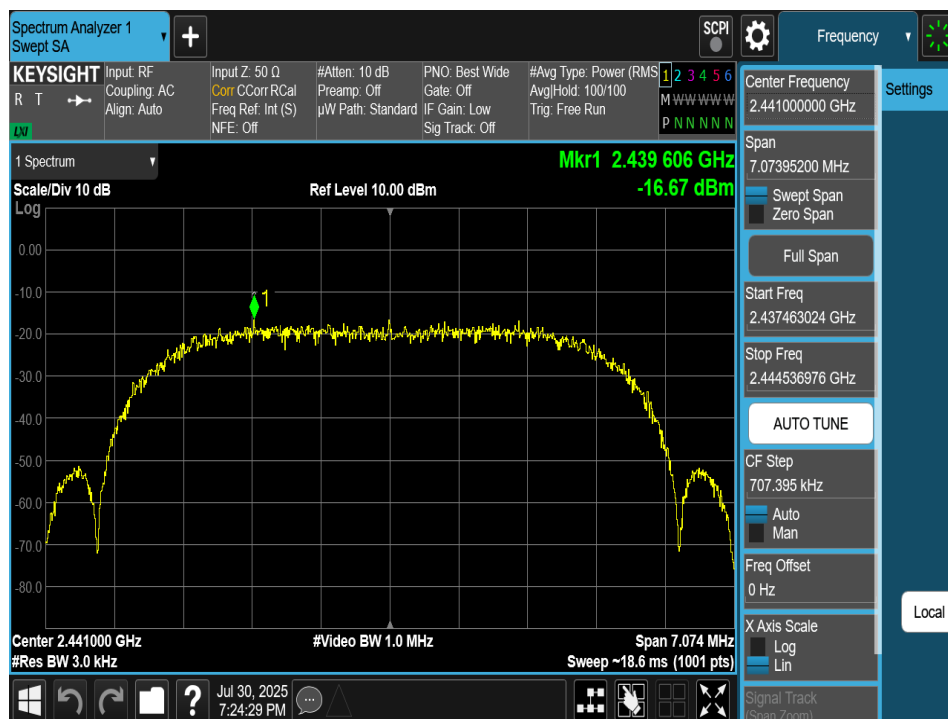


Plot 7-151. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (XHDRPM6), 6Mbps, iPA – Ch. 1)

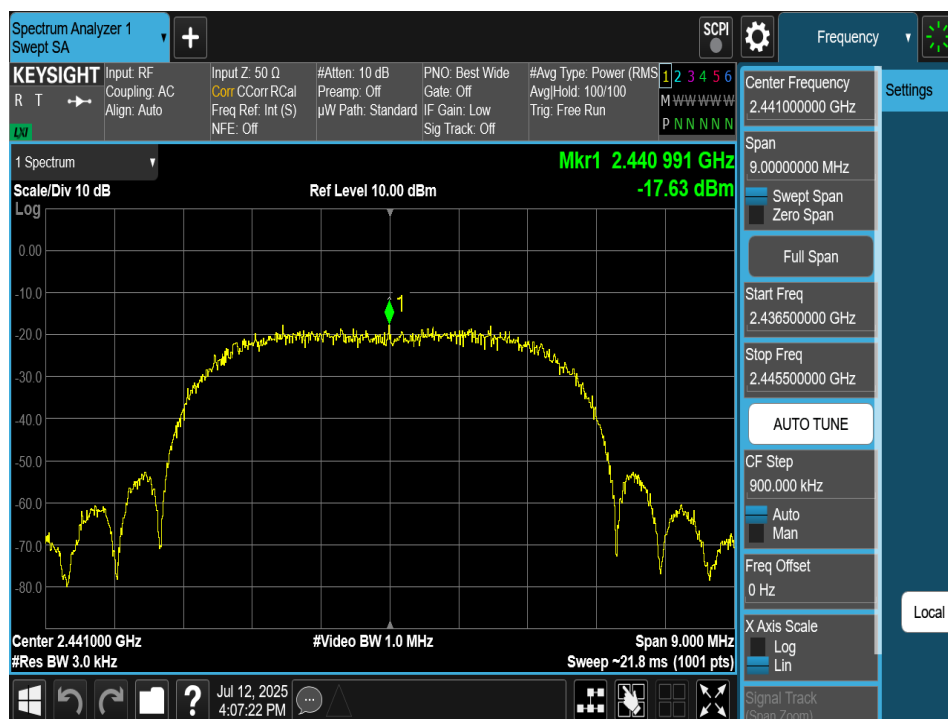


Plot 7-152. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (XHDRPM6), 6Mbps, iPA – Ch. 1)

|                                                   |                                                                                                                                   |                                   |                                          |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------|
| FCC ID: BCGA3361<br>IC: 579C-A3361                |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                   | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1C2504170041-16-R2.BCG | <b>Test Dates:</b><br>05/12/2025 - 07/19/2025                                                                                     | <b>EUT Type:</b><br>Tablet Device | Page 106 of 199                          |



Plot 7-153. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (XHDRPM6), 6Mbps, iPA – Ch. 38)

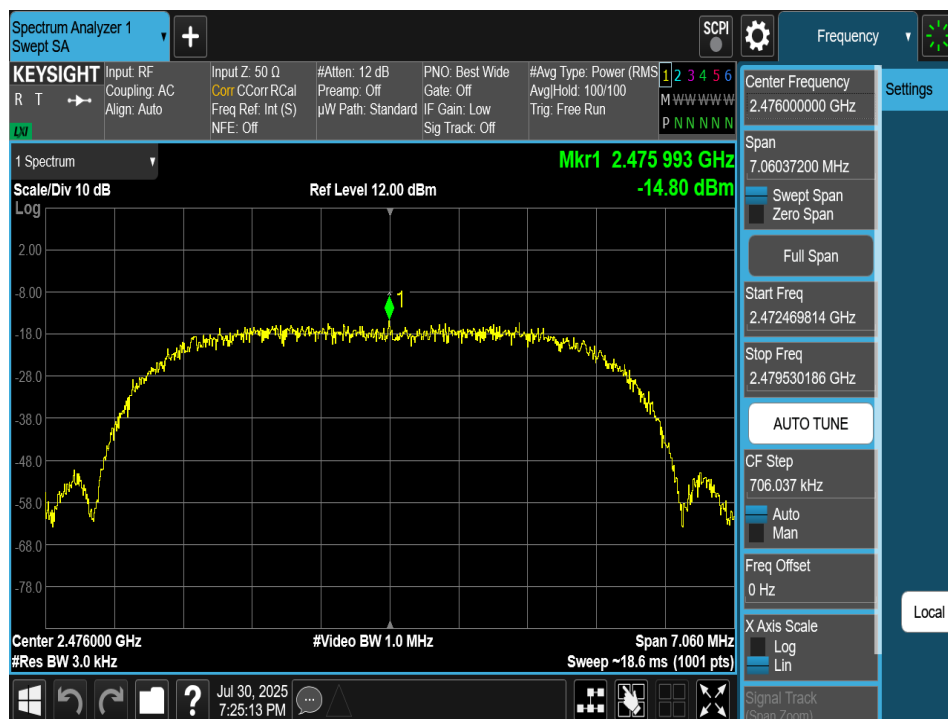


Plot 7-154. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (XHDRPM6), 6Mbps, iPA – Ch. 38)

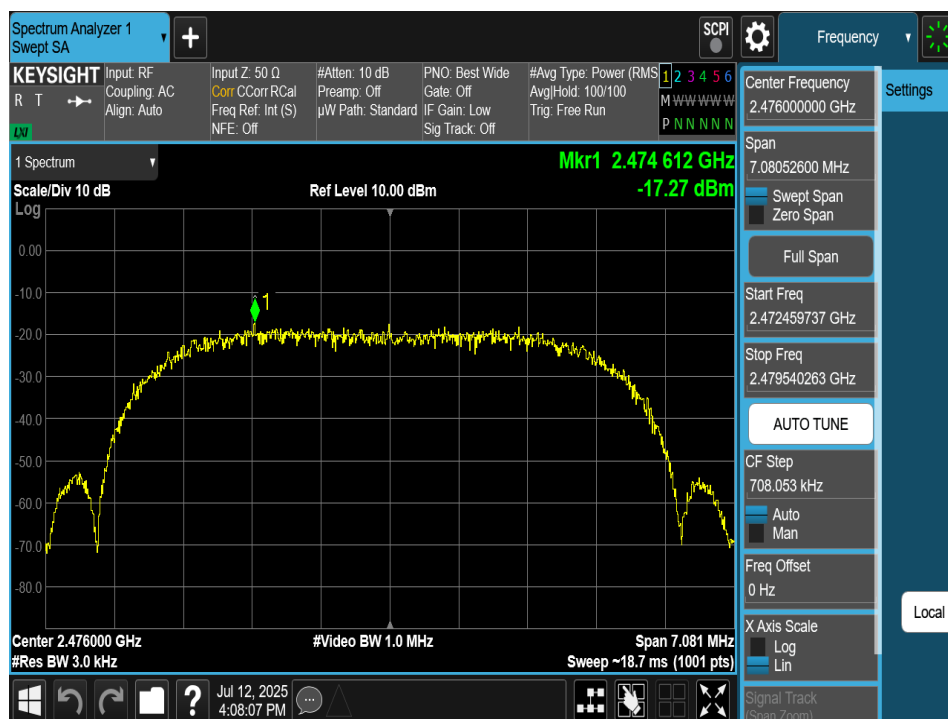
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|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
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Plot 7-155. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (XHDRPM6), 6Mbps, iPA – Ch. 73)

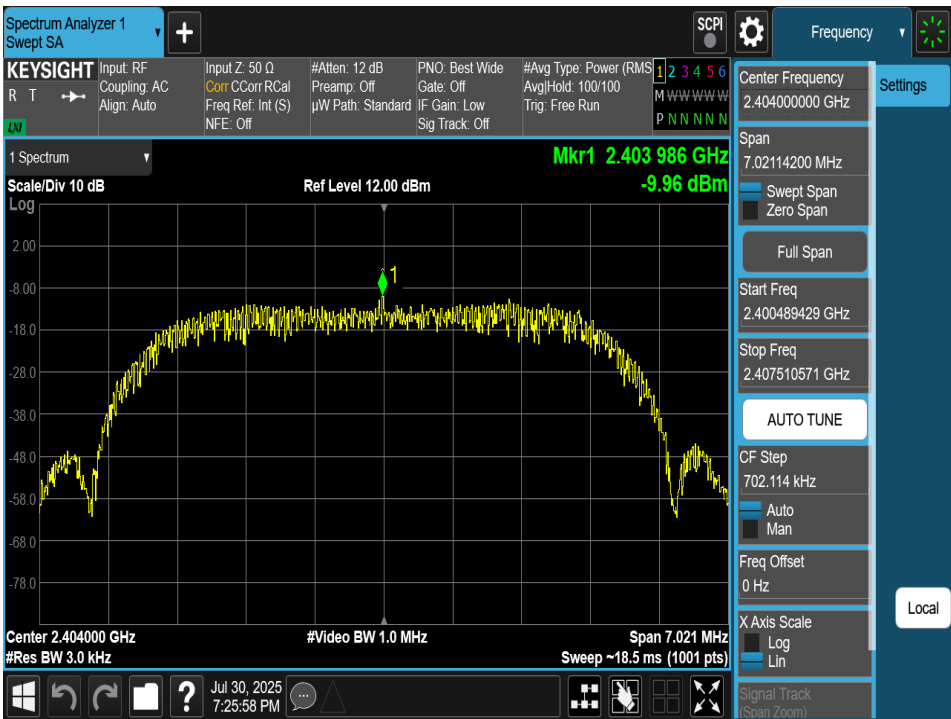


Plot 7-156. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (XHDRPM6), 6Mbps, iPA – Ch. 73)

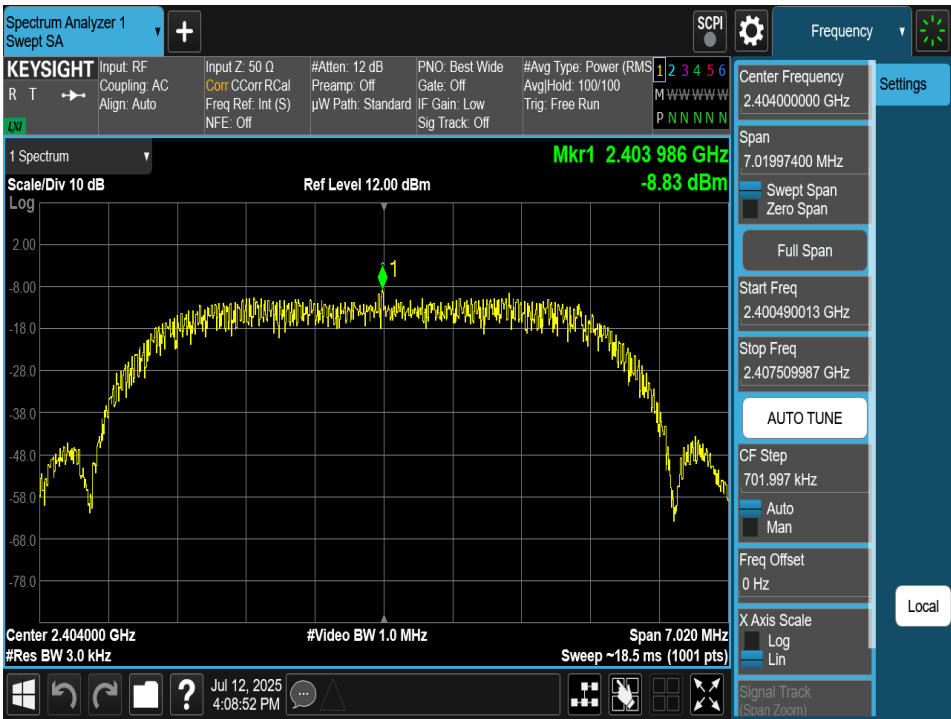
|                                            |                                                                                     |                                       |                                   |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA3361<br>IC: 579C-A3361         |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2504170041-16-R2.BCG | Test Dates:<br>05/12/2025 - 07/19/2025                                              | EUT Type:<br>Tablet Device            | Page 108 of 199                   |

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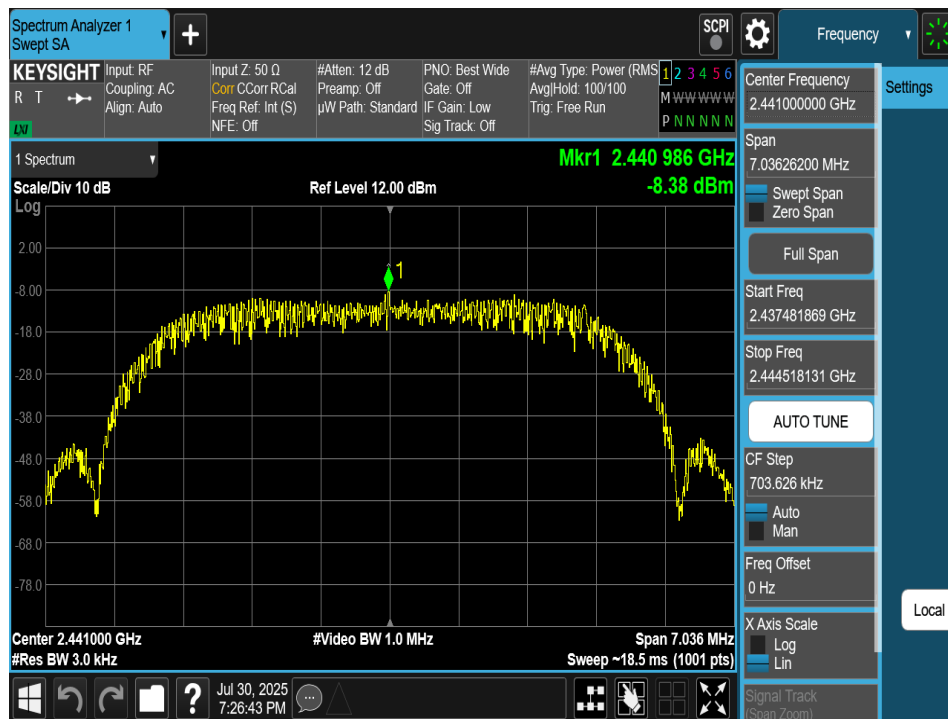


Plot 7-157. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 1)

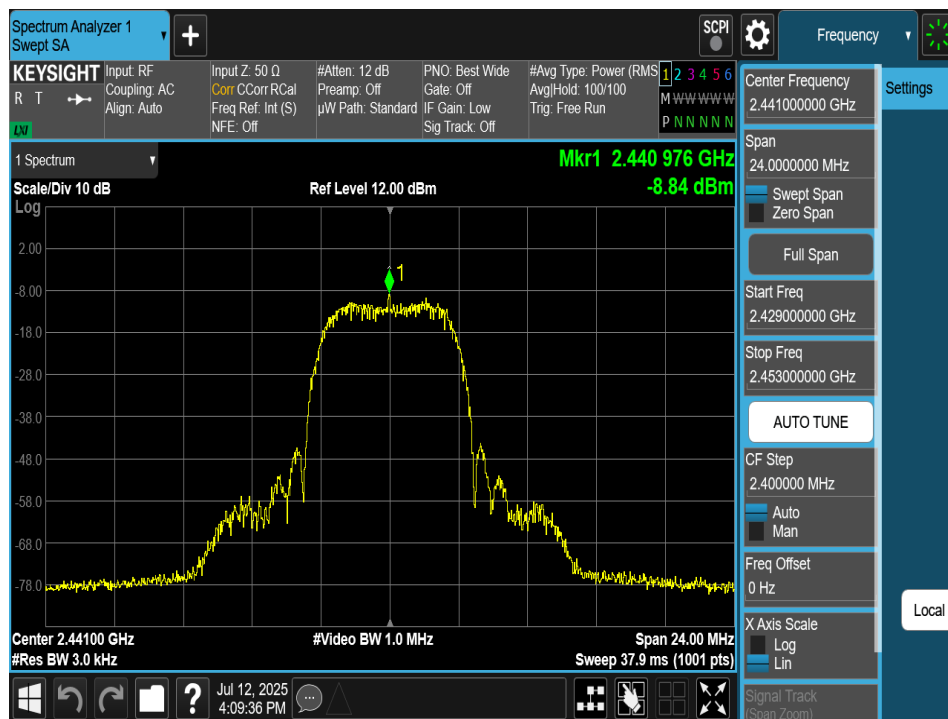


Plot 7-158. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 1)

|                                            |                                                                                     |                                       |                                   |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
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Plot 7-159. Power Spectral Density Plot Tx BF Antenna 4a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 38)

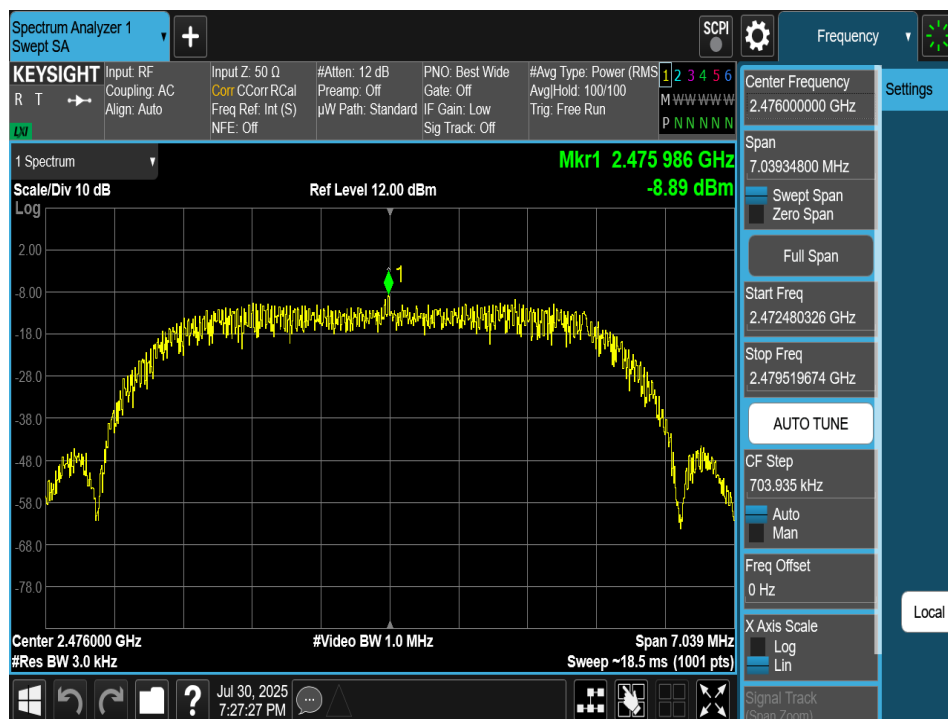


Plot 7-160. Power Spectral Density Plot Tx BF Antenna 2a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 38)

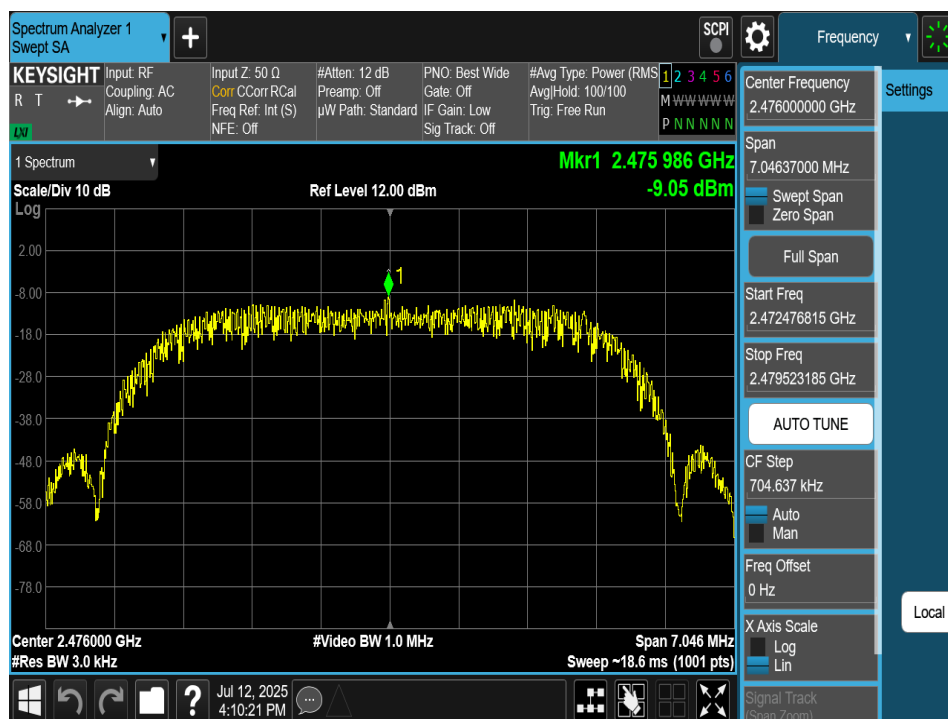
|                                            |                                                                                     |                                       |                                   |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA3361<br>IC: 579C-A3361         |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
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Plot 7-161. Power Spectral Density Plot Tx BF Antenna 4a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 73)

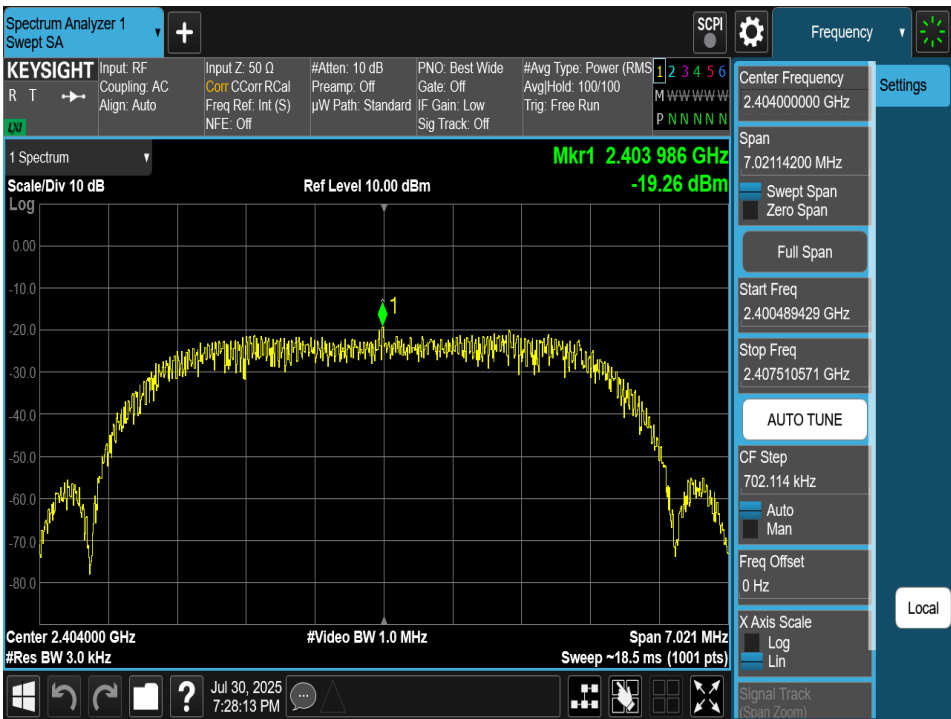


Plot 7-162. Power Spectral Density Plot Tx BF Antenna 2a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 73)

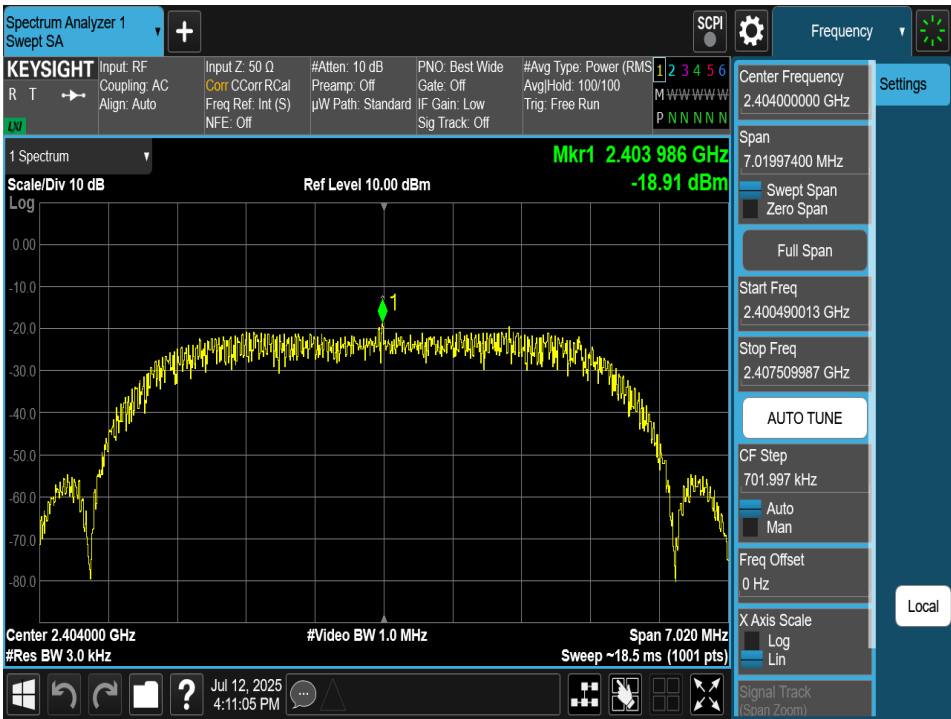
|                                            |                                                                                                                                   |                            |                                          |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------|
| FCC ID: BCGA3361<br>IC: 579C-A3361         |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | <b>Approved by:</b><br>Technical Manager |
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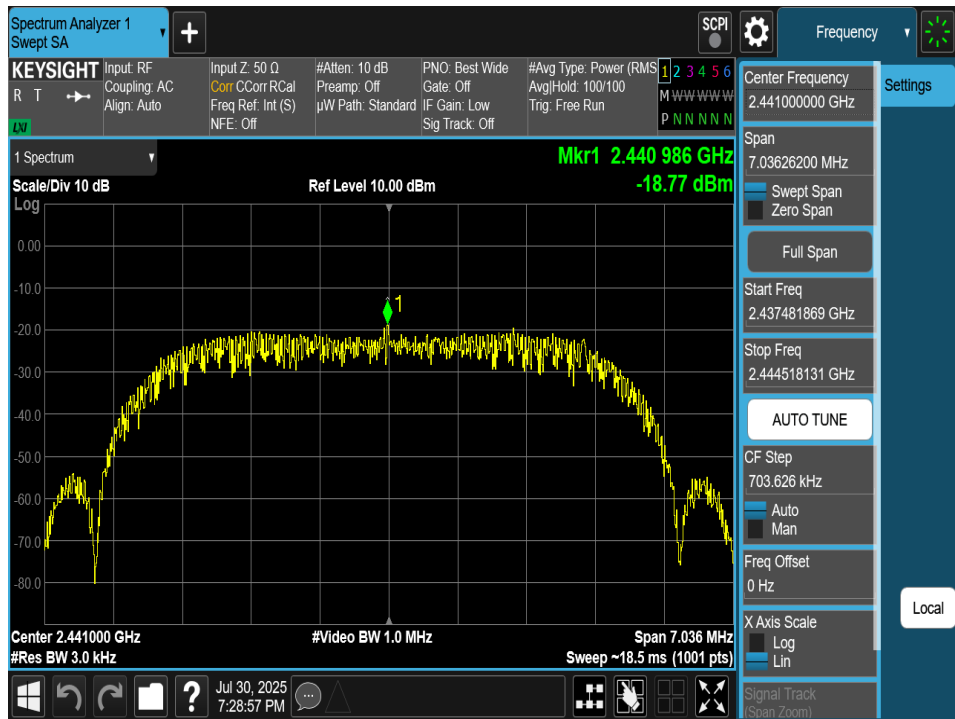


Plot 7-163. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDRPM16), 16Mbps, iPA – Ch. 1)



Plot 7-164. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDRPM16), 16Mbps, iPA – Ch. 1)

|                                            |                                                                                     |                                       |                                   |
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Plot 7-165. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDRPM16), 16Mbps, iPA – Ch. 38)

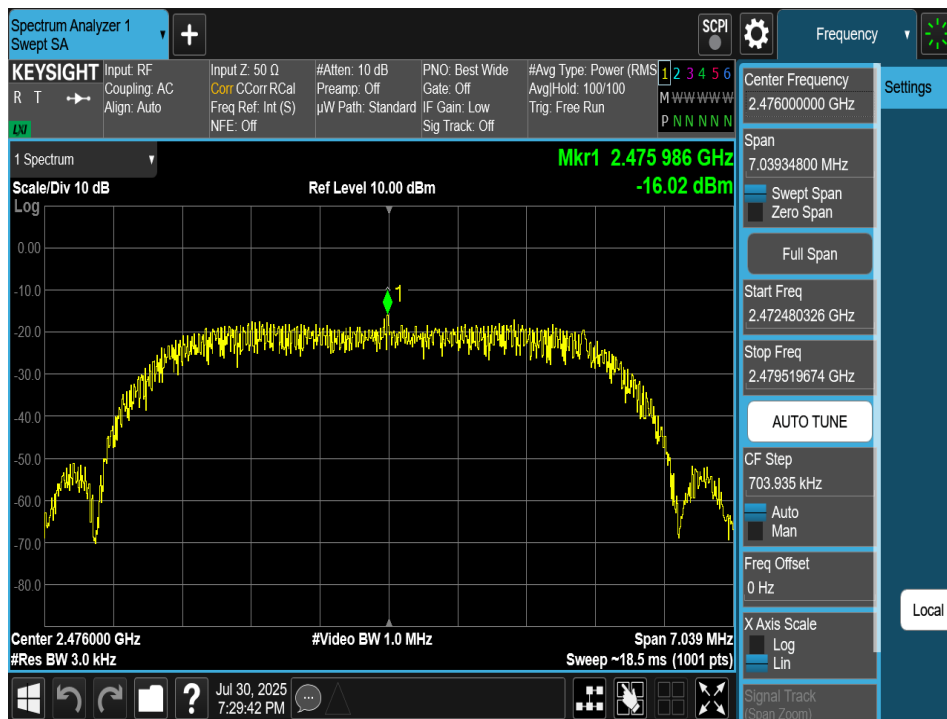


Plot 7-166. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDRPM16), 16Mbps, iPA – Ch. 38)

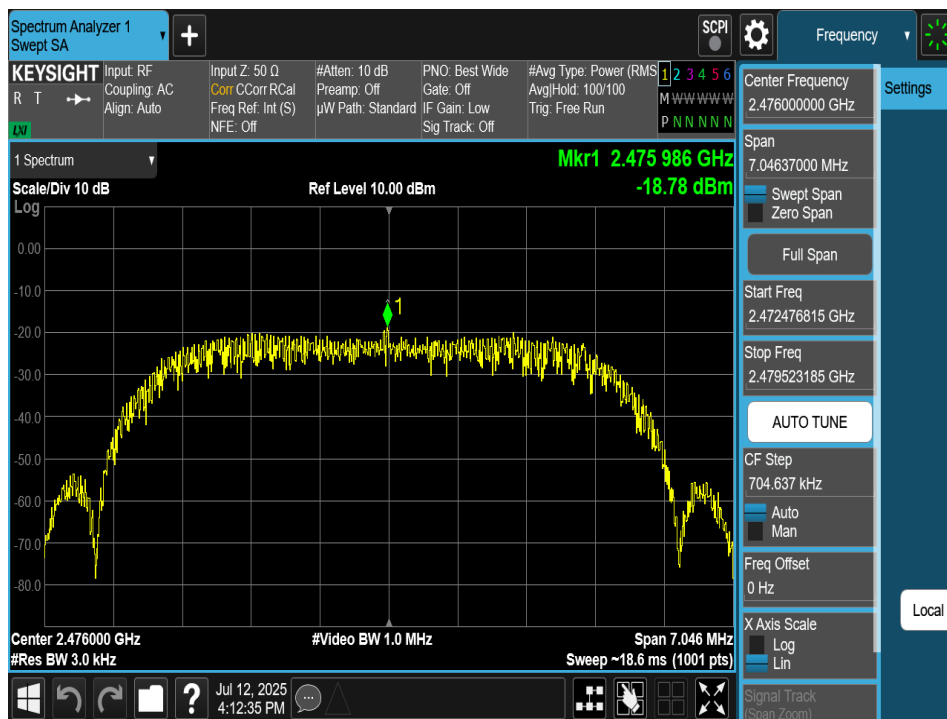
|                                            |                                                                                     |                                       |                                   |
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Plot 7-167. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDRPM16), 16Mbps, iPA – Ch. 73)

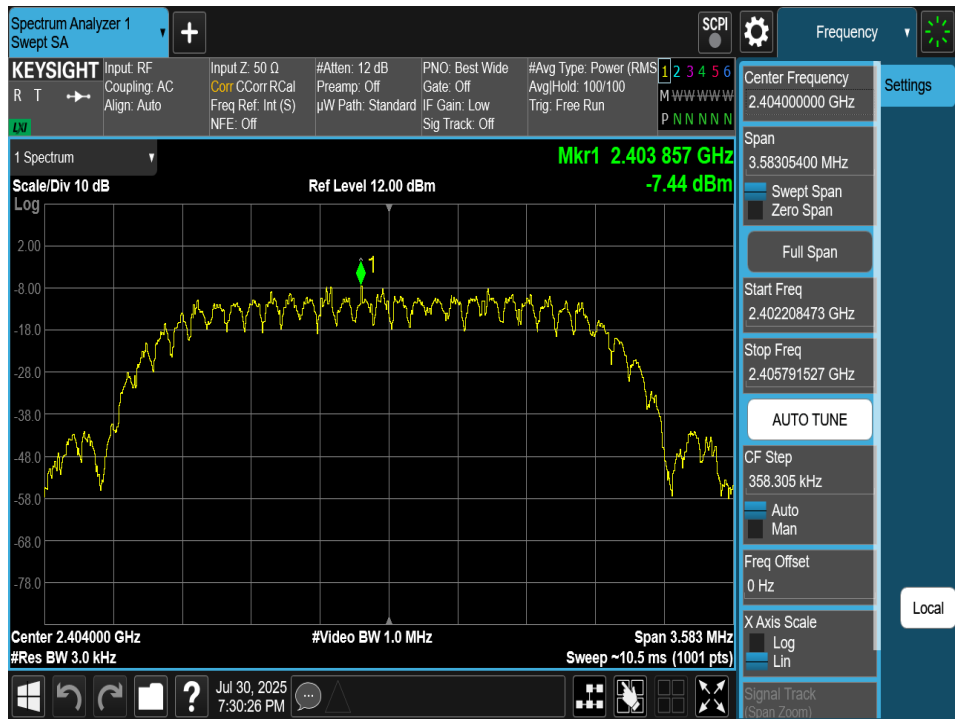


Plot 7-168. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDRPM16), 16Mbps, iPA – Ch. 73)

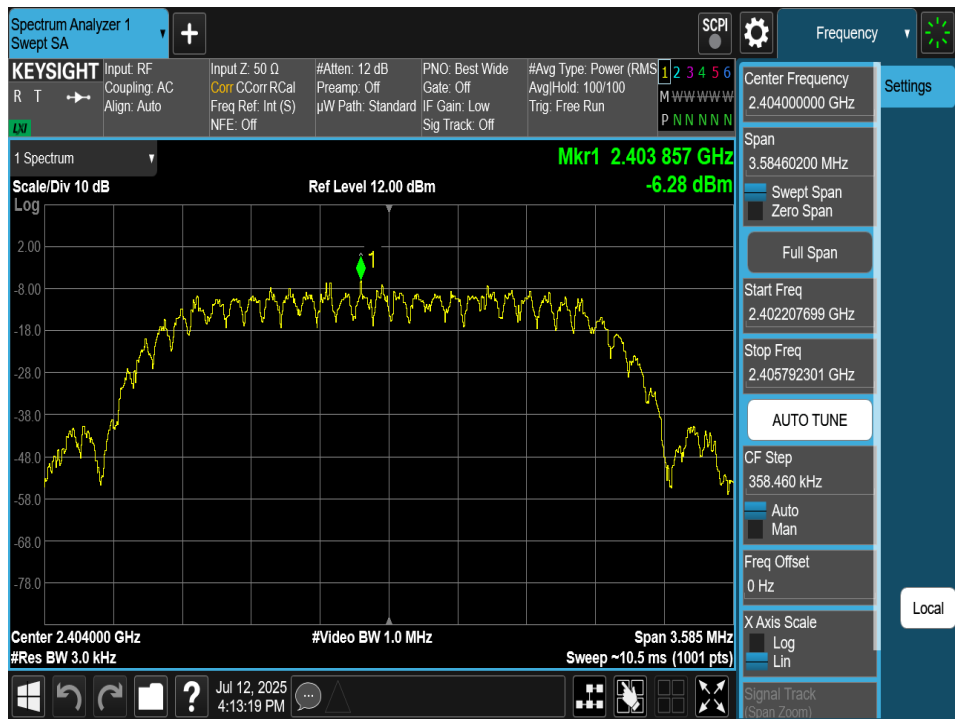
|                                            |                                                                                     |                                       |                                   |
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Plot 7-169. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 1)

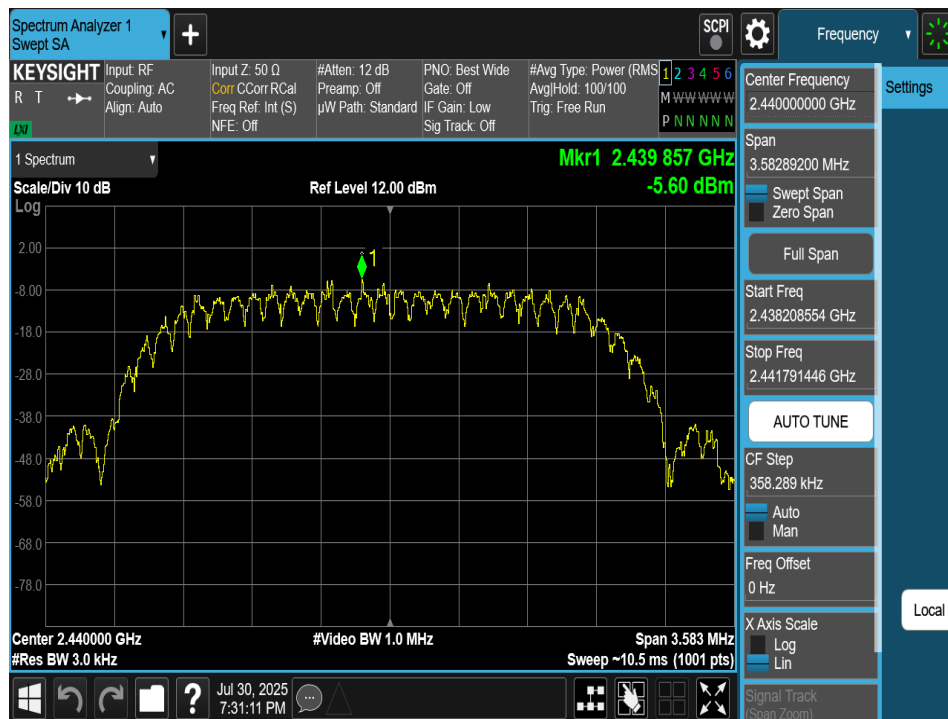


Plot 7-170. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 1)

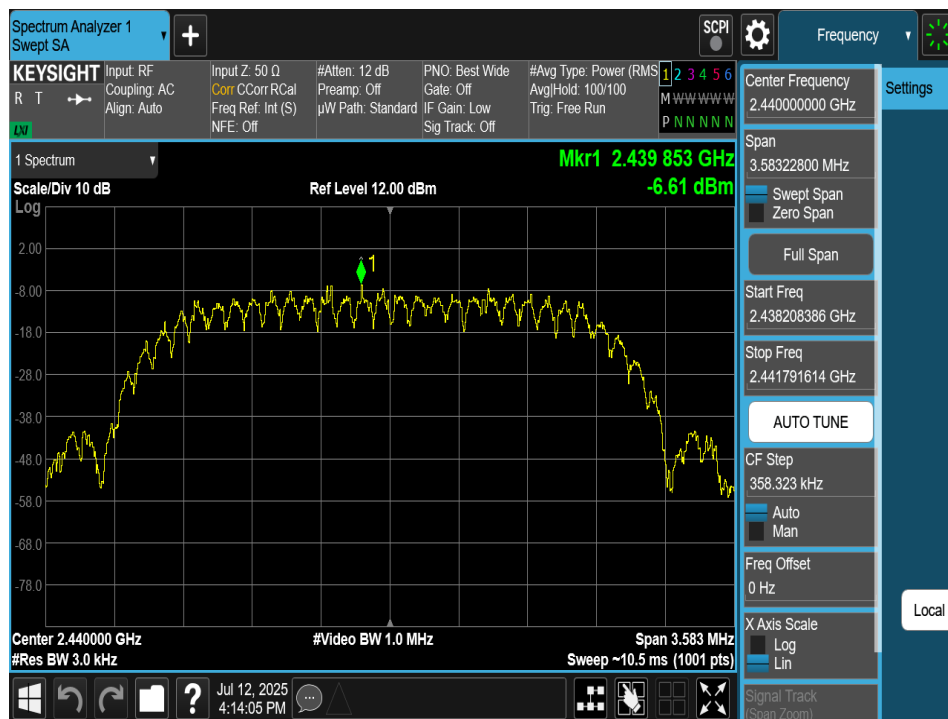
|                                            |                                                                                     |                                       |                                   |
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Plot 7-171. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 37)

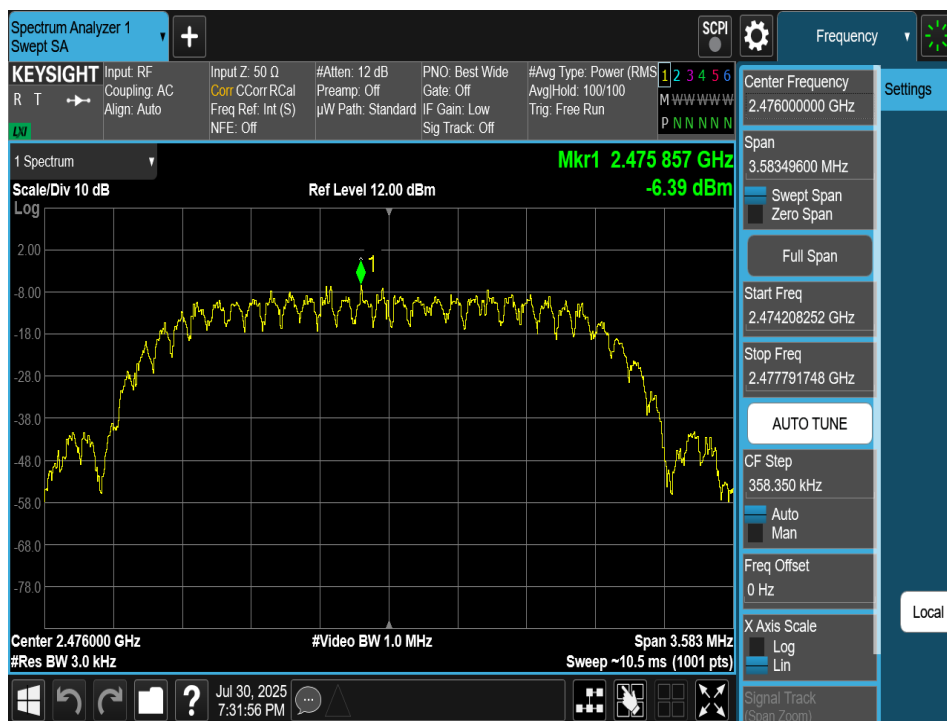


Plot 7-172. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 37)

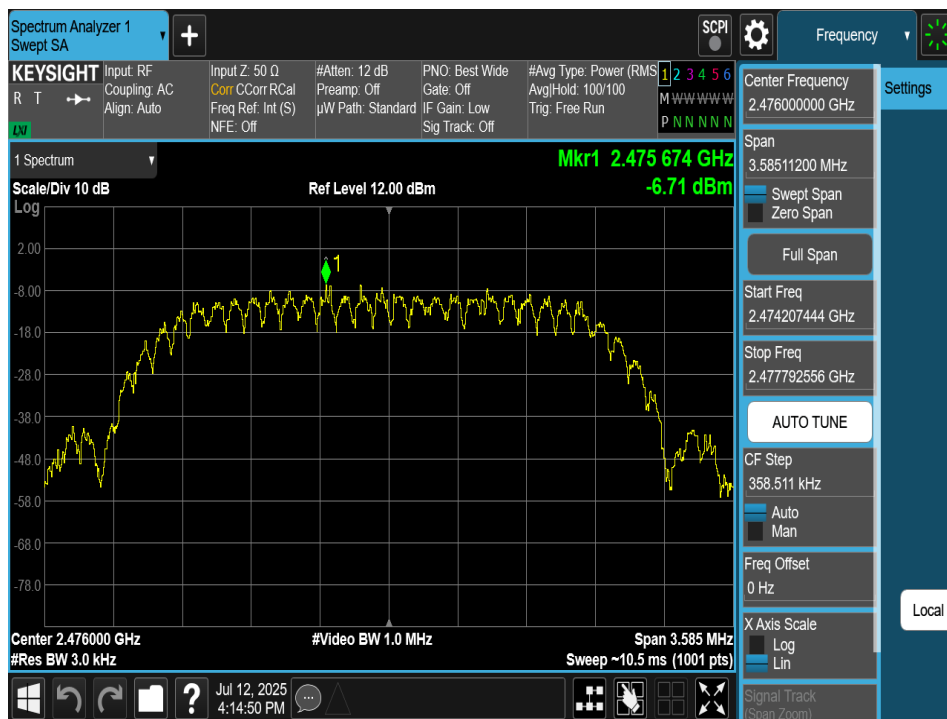
|                                            |                                                                                     |                                       |                                   |
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Plot 7-173. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 73)

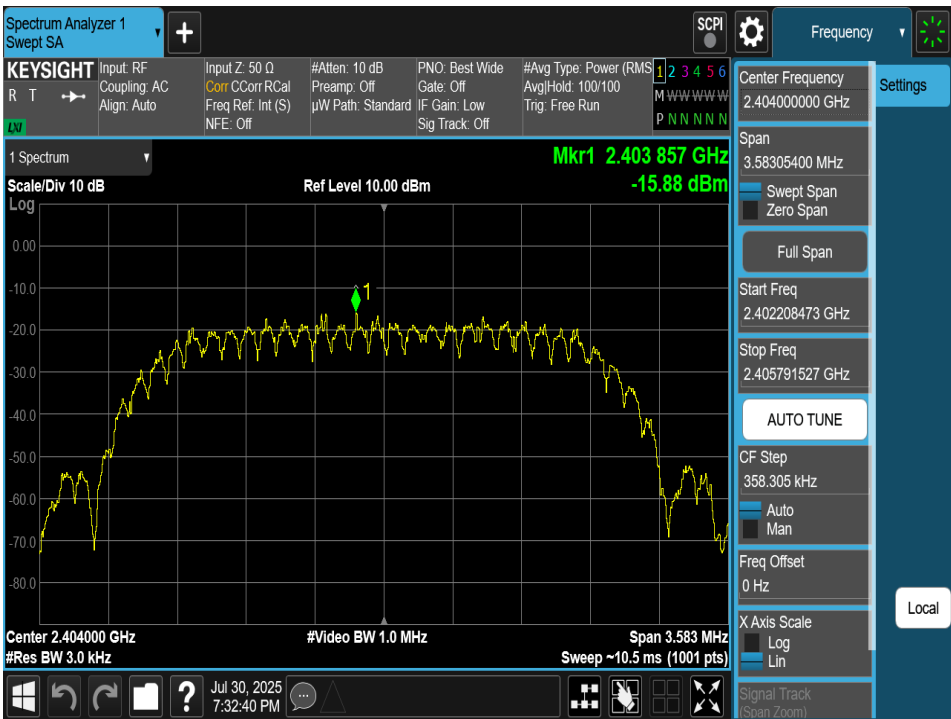


Plot 7-174. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 73)

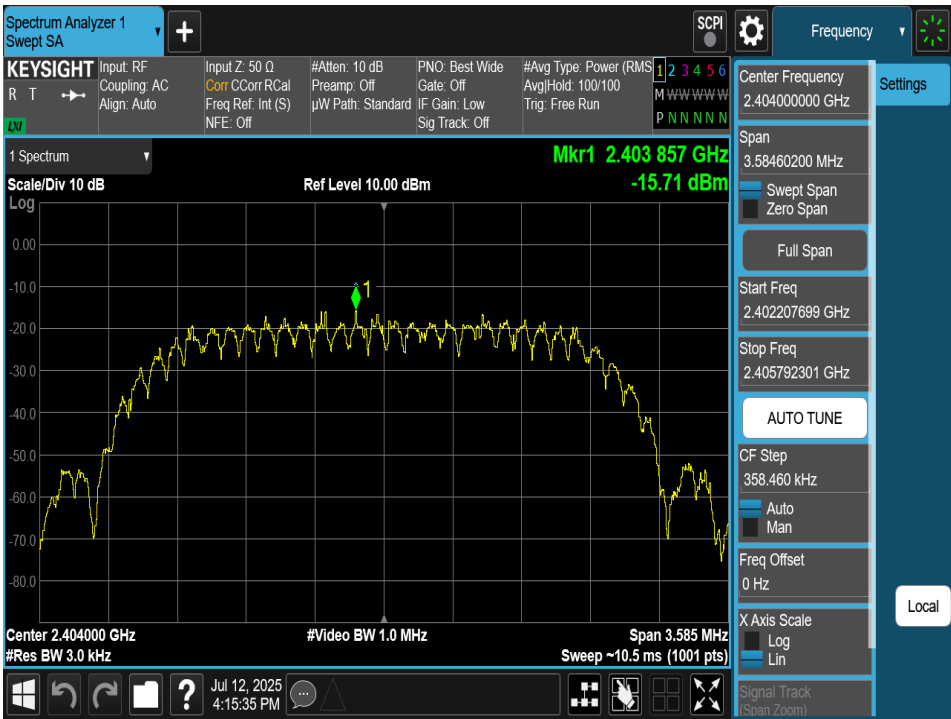
|                                            |                                                                                     |                                       |                                   |
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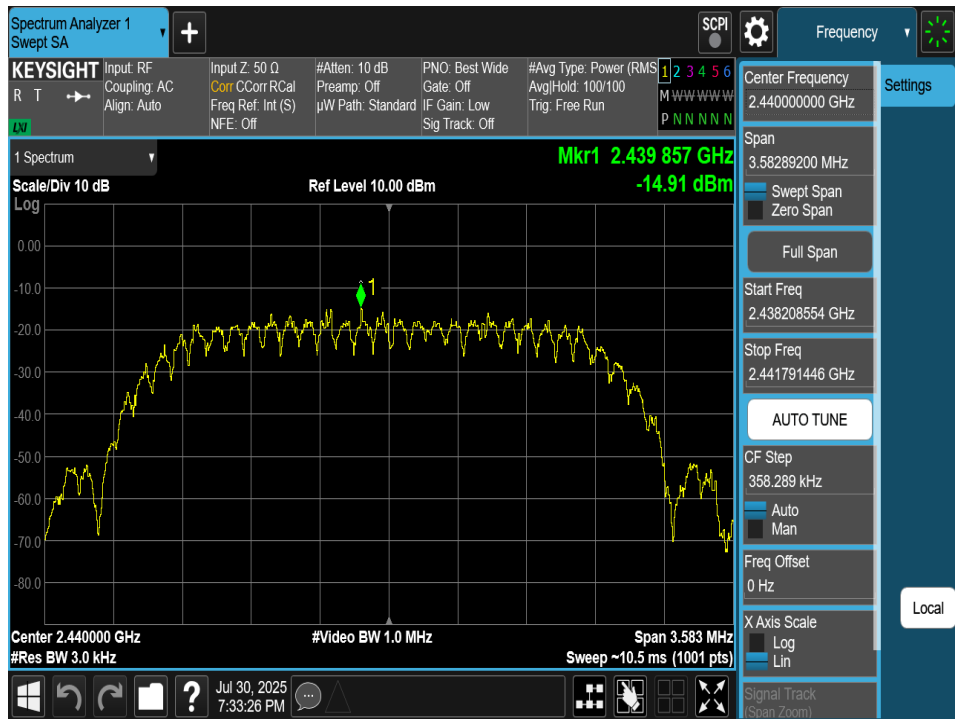


Plot 7-175. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDT2), 2Mbps, iPA – Ch. 1)

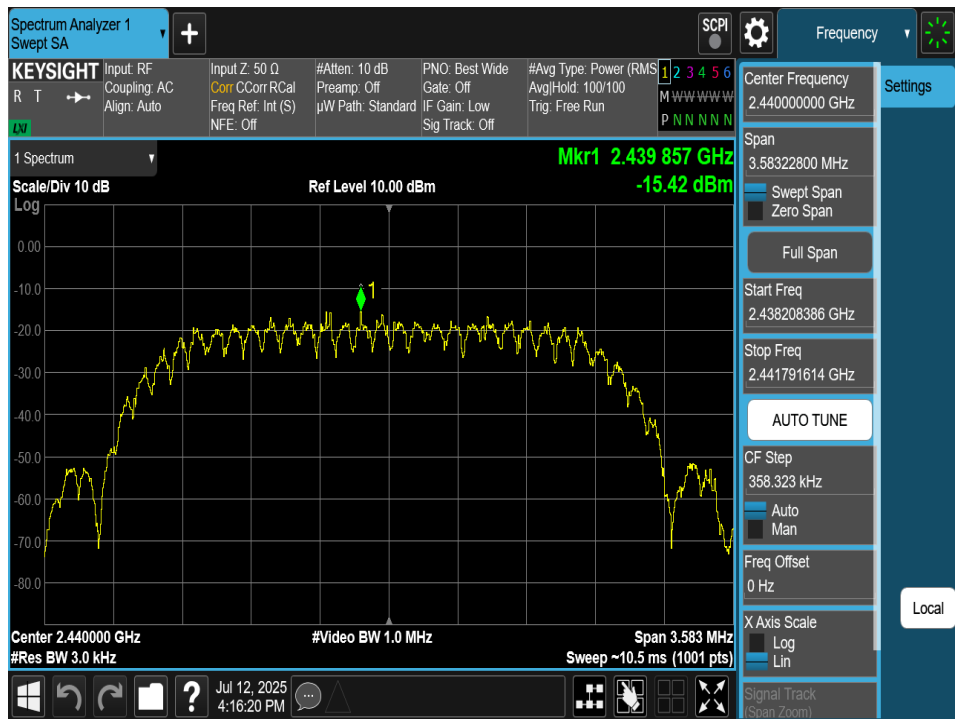


Plot 7-176. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDT2), 2Mbps, iPA – Ch. 1)

|                                            |                                                                                     |                                       |                                   |
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Plot 7-177. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDT2), 2Mbps, iPA – Ch. 37)

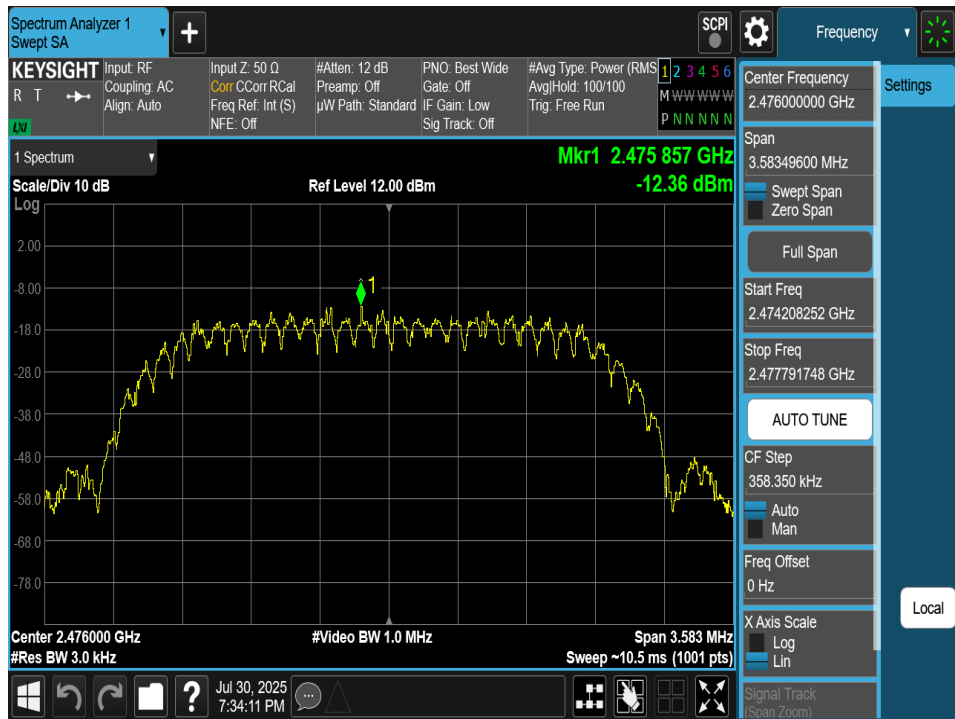


Plot 7-178. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDT2), 2Mbps, iPA – Ch. 37)

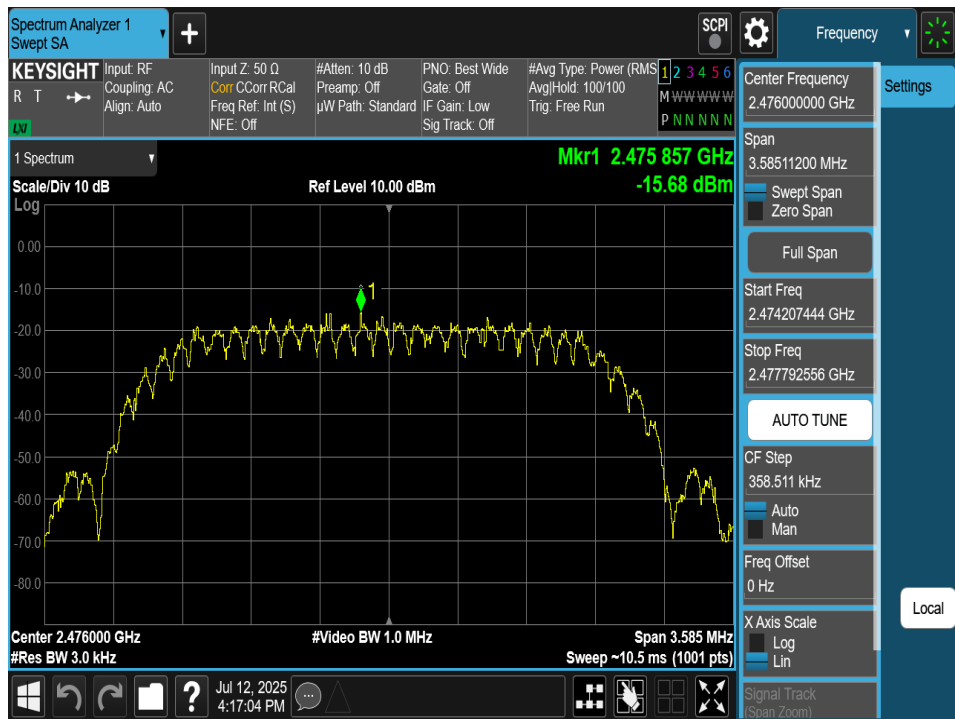
|                                            |                                                                                     |                                       |                                   |
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Plot 7-179. Power Spectral Density Plot TxBF Antenna 4a (Bluetooth (HDT2), 2Mbps, iPA – Ch. 73)



Plot 7-180. Power Spectral Density Plot TxBF Antenna 2a (Bluetooth (HDT2), 2Mbps, iPA – Ch. 73)

|                                            |                                        |                                       |                                   |
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**Note:**

Per ANSI C63.10-2020 Subclause 14.6.3, the directional gain is calculated using the following formula, where  $G_N$  is the gain of the nth antenna and  $N_{ANT}$ , the total number of antennas used.

$$\text{Directional gain} = 10 \log [(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

Per ANSI C63.10-2020 Subclause 14.5.2.2 and KDB 662911 D01 v02r01 Section E)2), the power spectral density at Antenna 4a and Antenna 2a were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

**Sample TxBF Calculation:**

At 2404MHz the average conducted power spectral density was measured to be -2.48 dBm for Antenna 4a and -1.70 dBm for Antenna 2a.

$$\text{Antenna 4a} + \text{Antenna 2a} = \text{TxBF}$$

$$(-2.48 \text{ dBm} + -1.70 \text{ dBm}) = (0.565 \text{ mW} + 0.676 \text{ mW}) = 1.241 \text{ mW} = 0.94 \text{ dBm}$$

|                                                   |                                                                                                                                   |                                   |                                          |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------|
| <b>FCC ID:</b> BCGA3361<br><b>IC:</b> 579C-A3361  |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                   | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1C2504170041-16-R2.BCG | <b>Test Dates:</b><br>05/12/2025 - 07/19/2025                                                                                     | <b>EUT Type:</b><br>Tablet Device | Page 121 of 199                          |

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## 7.5 Conducted Authorized Band Edge

§15.247(d); RSS-247 [5.5]

### Test Overview and Limit

For the following out of band conducted spurious emissions plots at the band edge, the EUT was set to transmit at maximum power with the largest packet size available. These settings produced the worst-case emissions.

***The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth.***

### Test Procedure Used

ANSI C63.10-2020 – Subclause 11.11.3  
KDB 558074 D01 v05r02 – Section 8.7.2

### Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW  $\geq 3 \times$  RBW
5. Detector = Peak
6. Number of sweep points  $\geq 2 \times$  Span/RBW
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



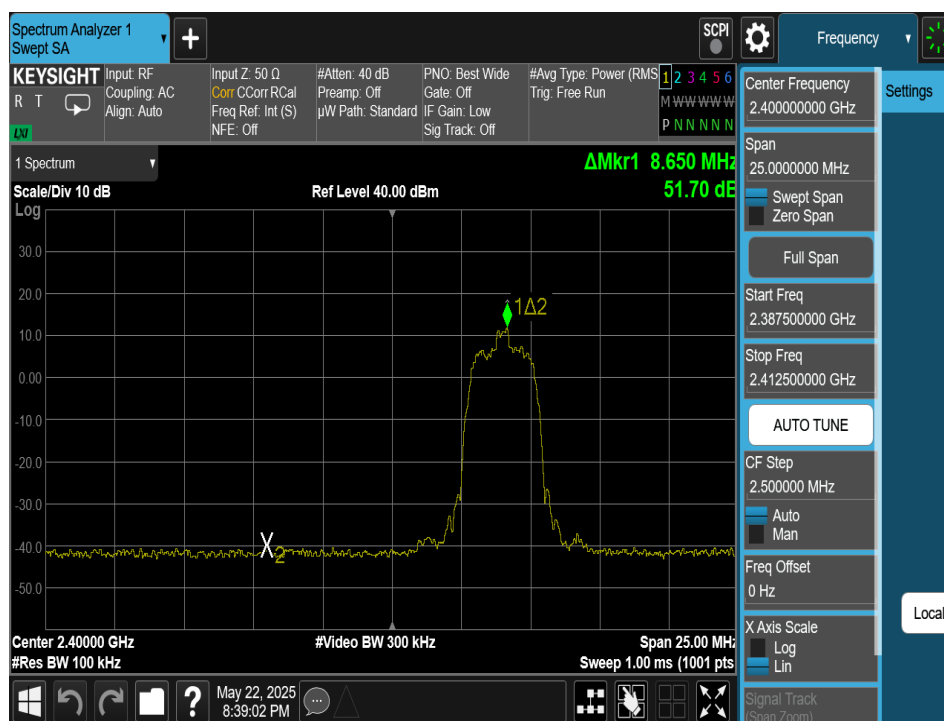
**Figure 7-4. Test Instrument & Measurement Setup**

### Test Notes

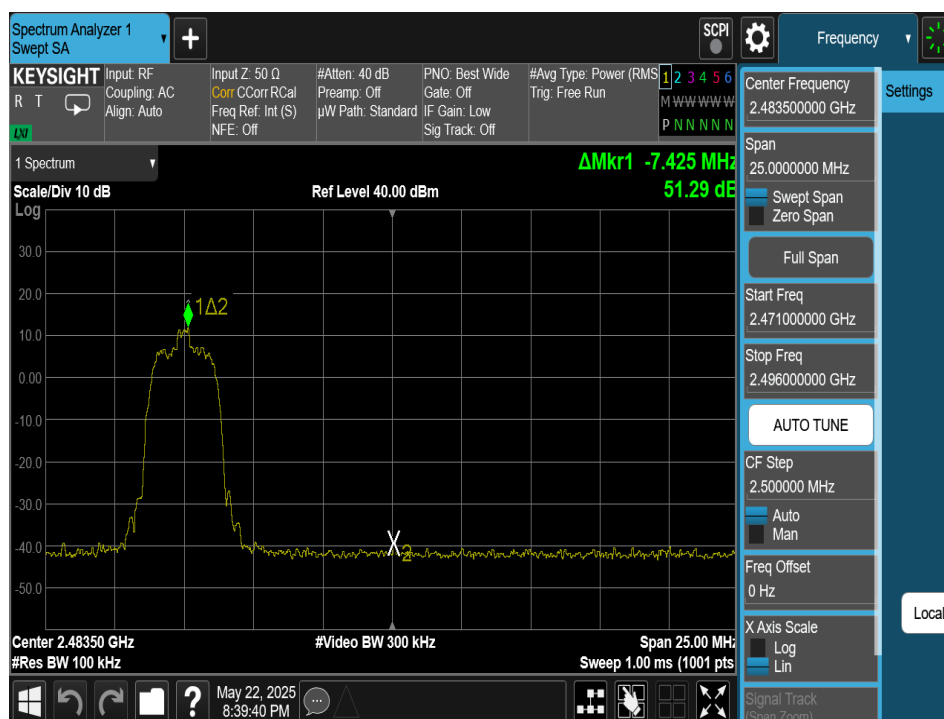
All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

|                                            |                                                                                     |                                       |                                   |
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## 7.5.1 Antenna 4a



Plot 7-181. Band Edge Plot Antenna 4a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 1)



Plot 7-182. Band Edge Plot Antenna 4a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 73)

|                                            |                                                                                     |                                       |                                   |
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Plot 7-183. Band Edge Plot Antenna 4a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 1)



Plot 7-184. Band Edge Plot Antenna 4a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 73)

|                                            |                                                                                     |                                       |                                   |
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