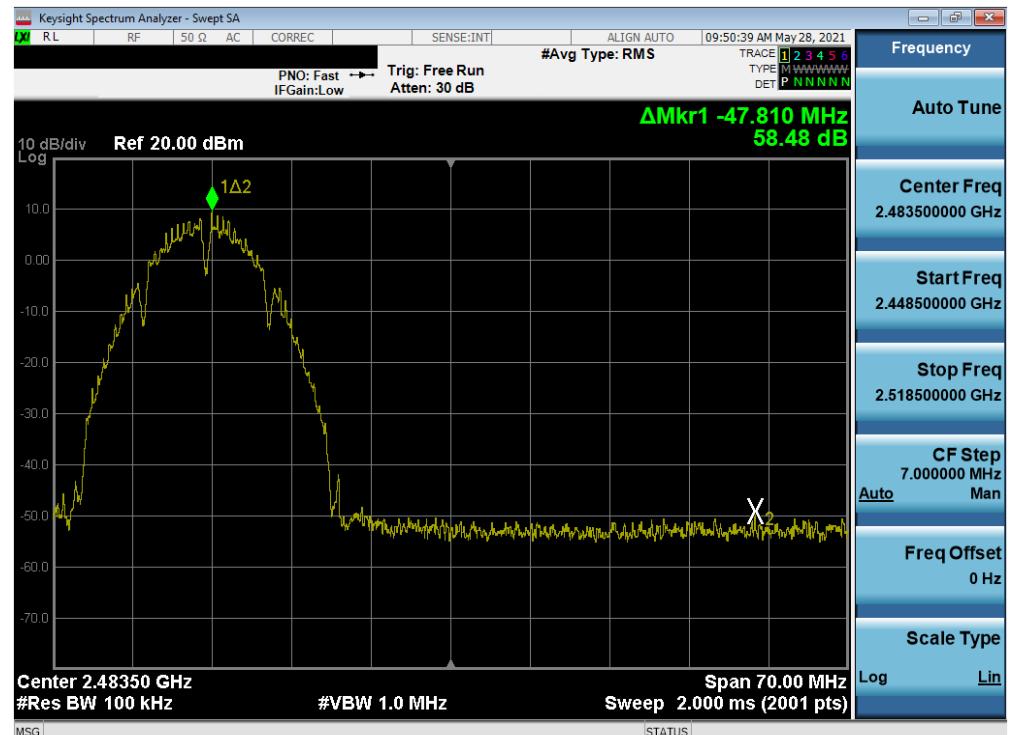
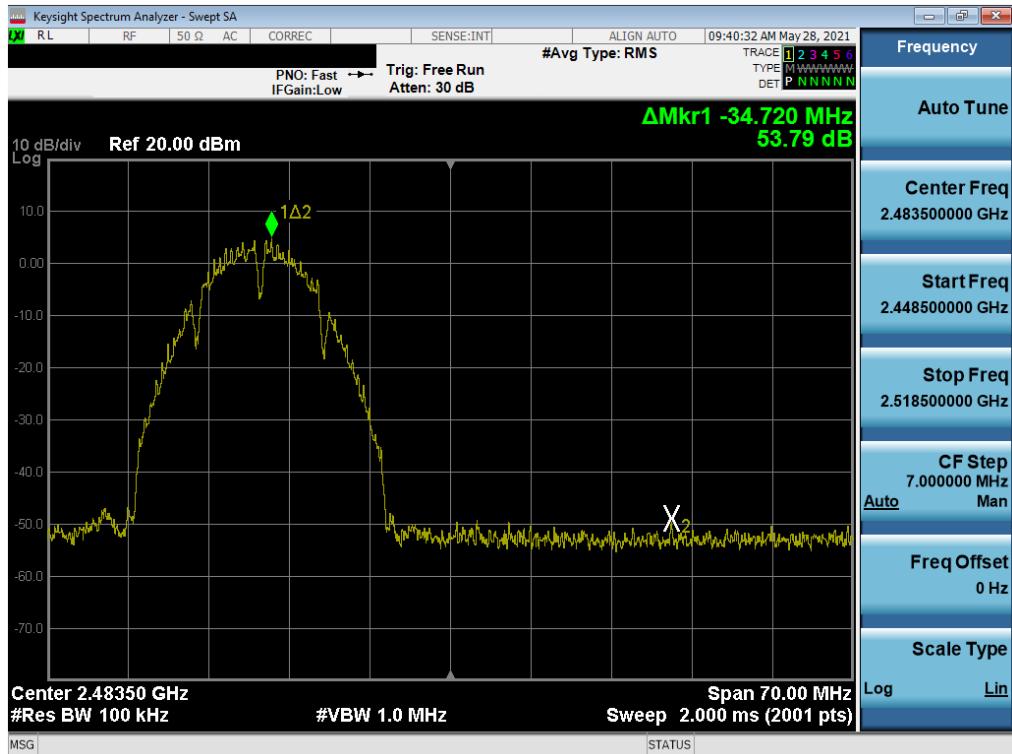


Plot 7-111. Band Edge Plot SISO SOUTH (802.11b – Ch. 10)

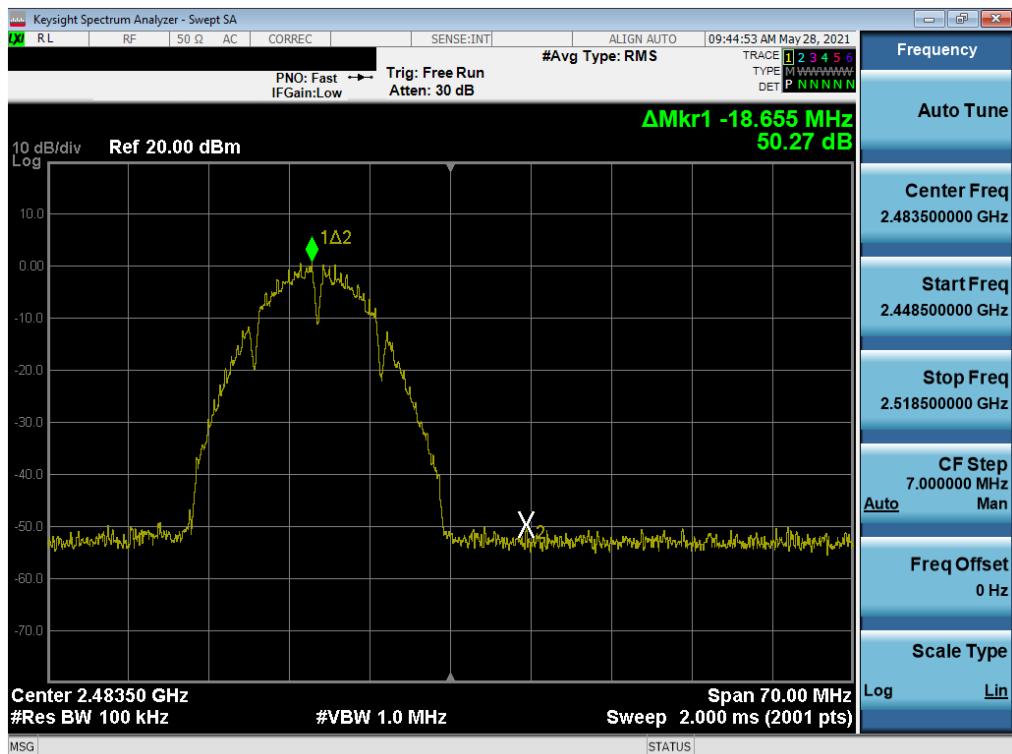


Plot 7-112. Band Edge Plot SISO SOUTH (802.11b – Ch. 11)

|   |  |                                       |   |
|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 86 of 182  |

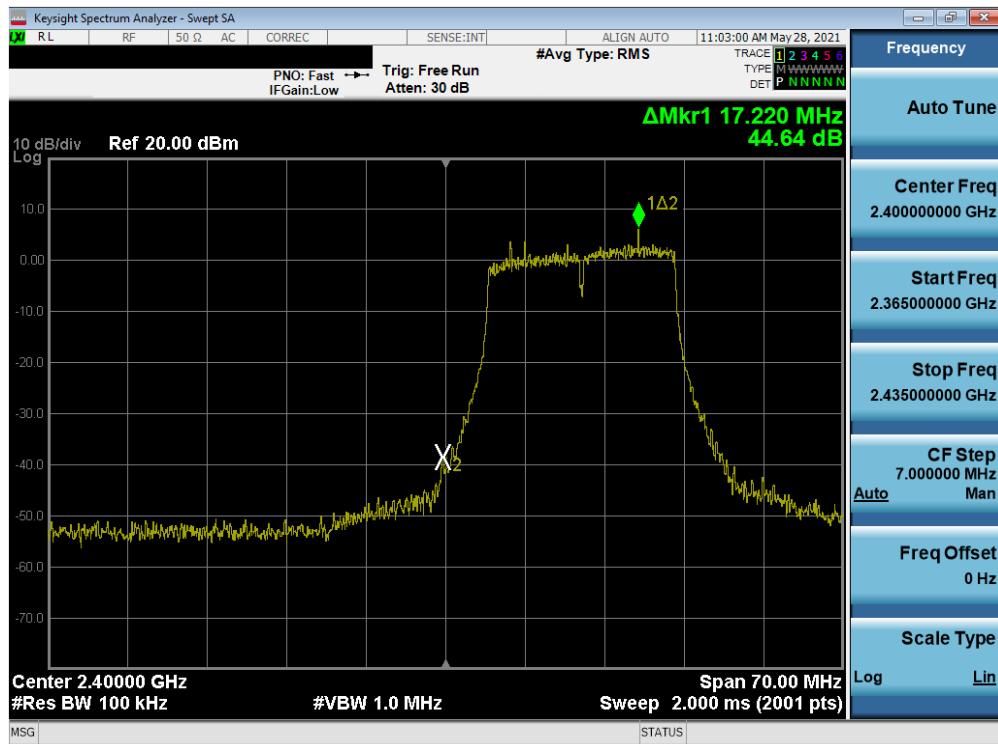


Plot 7-113. Band Edge Plot SISO SOUTH (802.11b – Ch. 12)

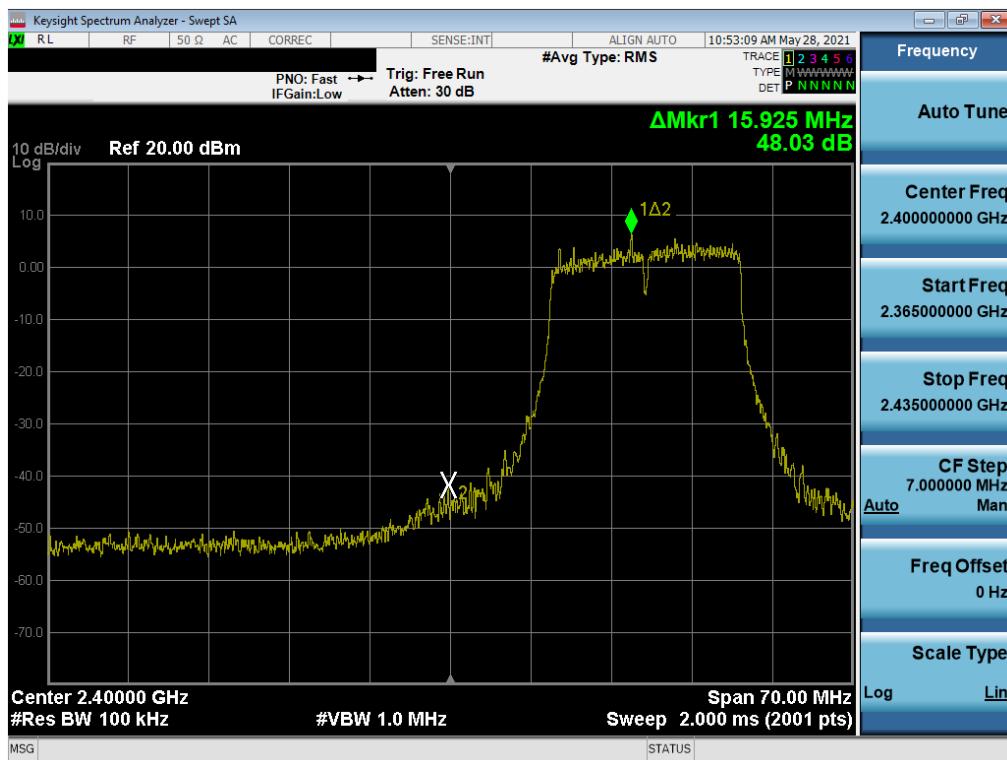


Plot 7-114. Band Edge Plot SISO SOUTH (802.11b – Ch. 13)

|   |  |                                       |   |
|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 87 of 182  |

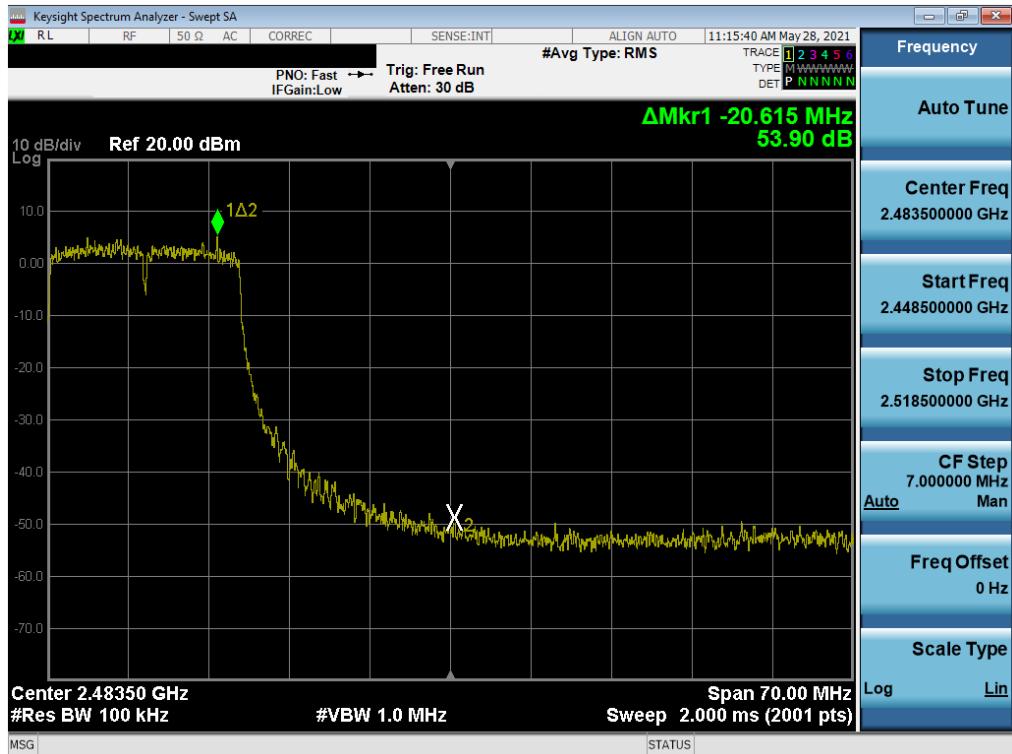


Plot 7-115. Band Edge Plot SISO SOUTH (802.11g- Ch. 1)

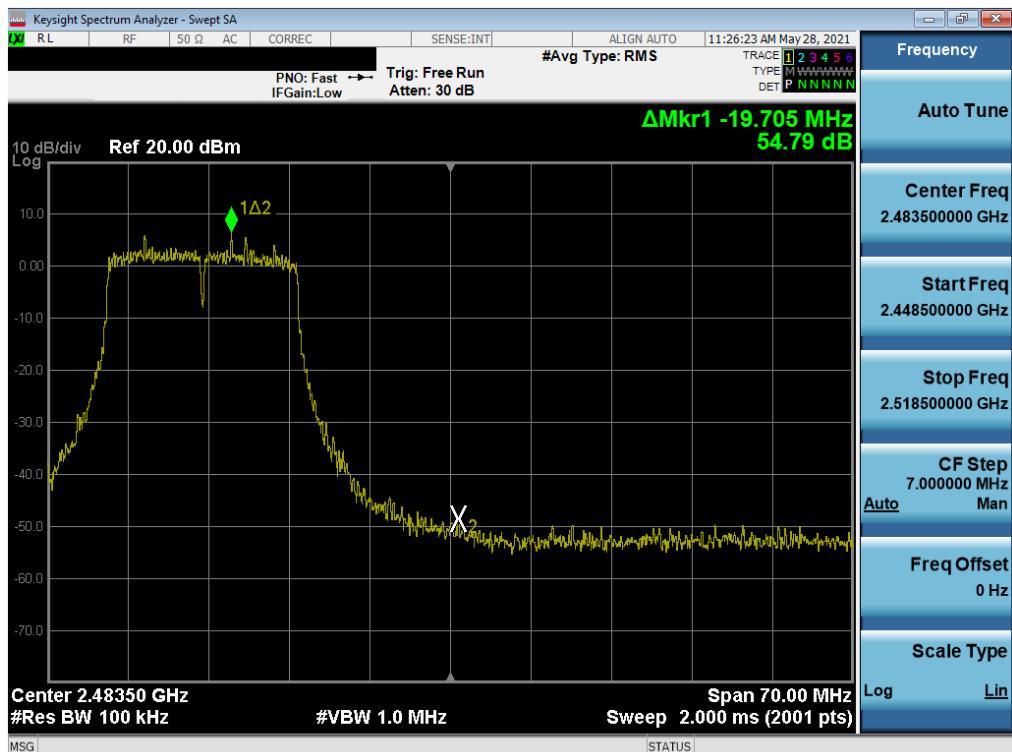


Plot 7-116. Band Edge Plot SISO SOUTH (802.11g- Ch. 2)

|   |  |                                       |  |
|---|--|---------------------------------------|--|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>PCTEST<br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | <br>Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 88 of 182   |

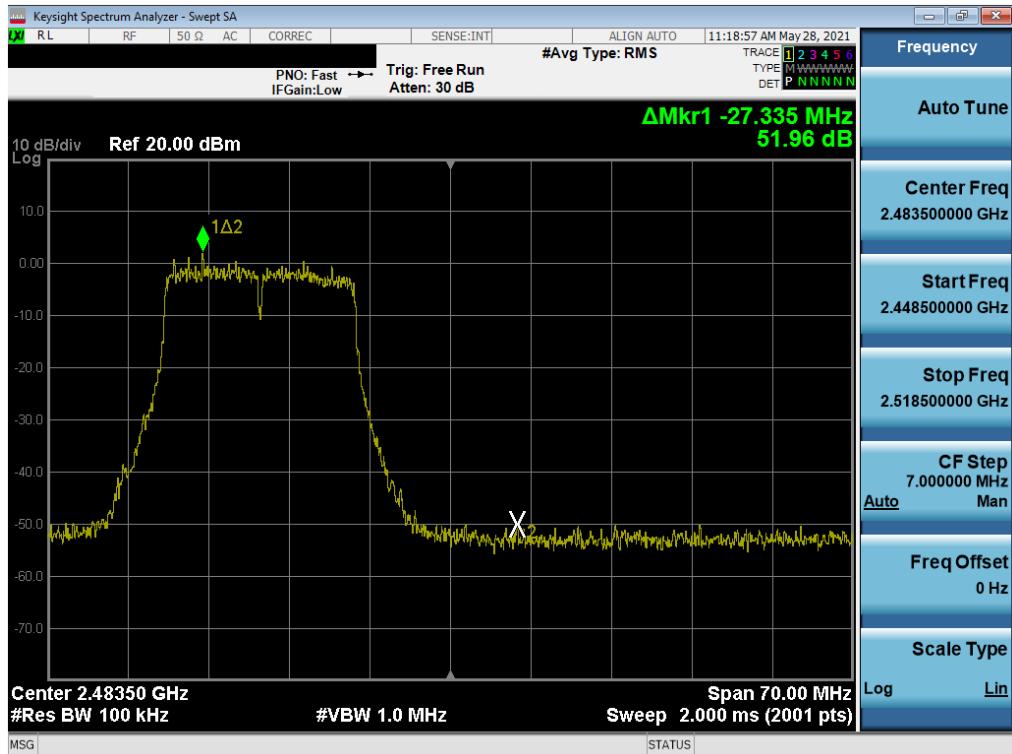


Plot 7-117. Band Edge Plot SISO SOUTH (802.11g – Ch. 10)

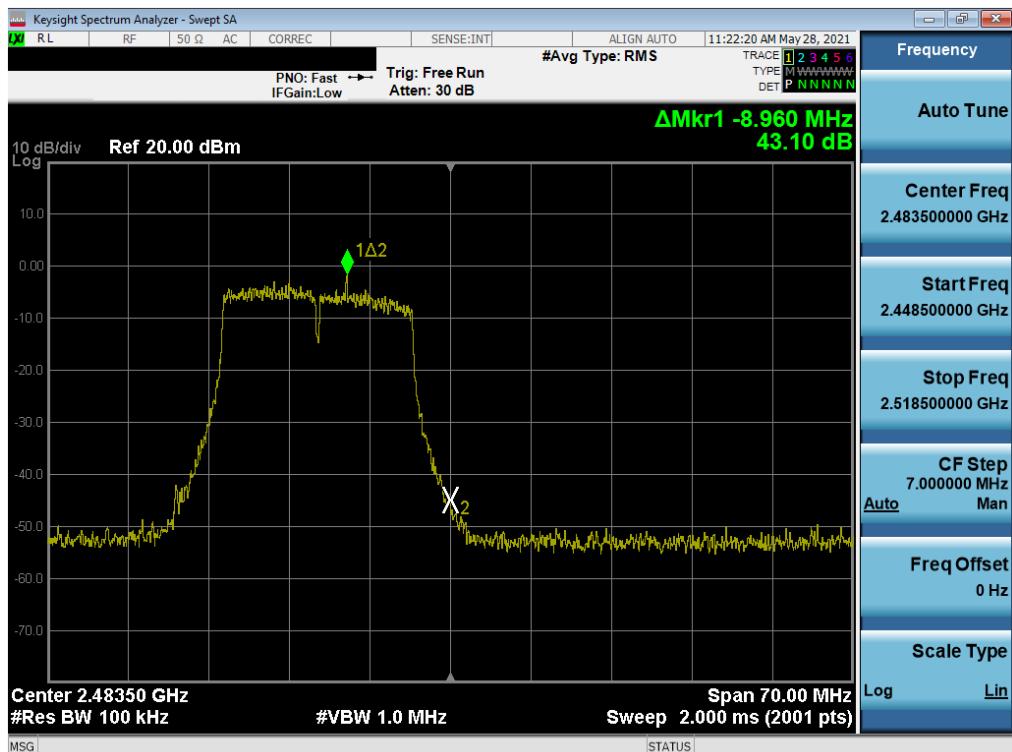


Plot 7-118. Band Edge Plot SISO SOUTH (802.11g – Ch. 11)

|   |  |                                       |   |
|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 89 of 182  |



Plot 7-119. Band Edge Plot SISO SOUTH (802.11g – Ch. 12)



Plot 7-120. Band Edge Plot SISO SOUTH (802.11g – Ch. 13)

|                     |                                     |
|---------------------|-------------------------------------|
| FCC ID: C3K1995     |                                     |
| IC: 3048A-1995      |                                     |
| Test Report S/N:    | Test Dates: 05/20/2021 - 09/02/2021 |
| 1M2105060048-12.C3K | EUT Type: Portable Handset          |

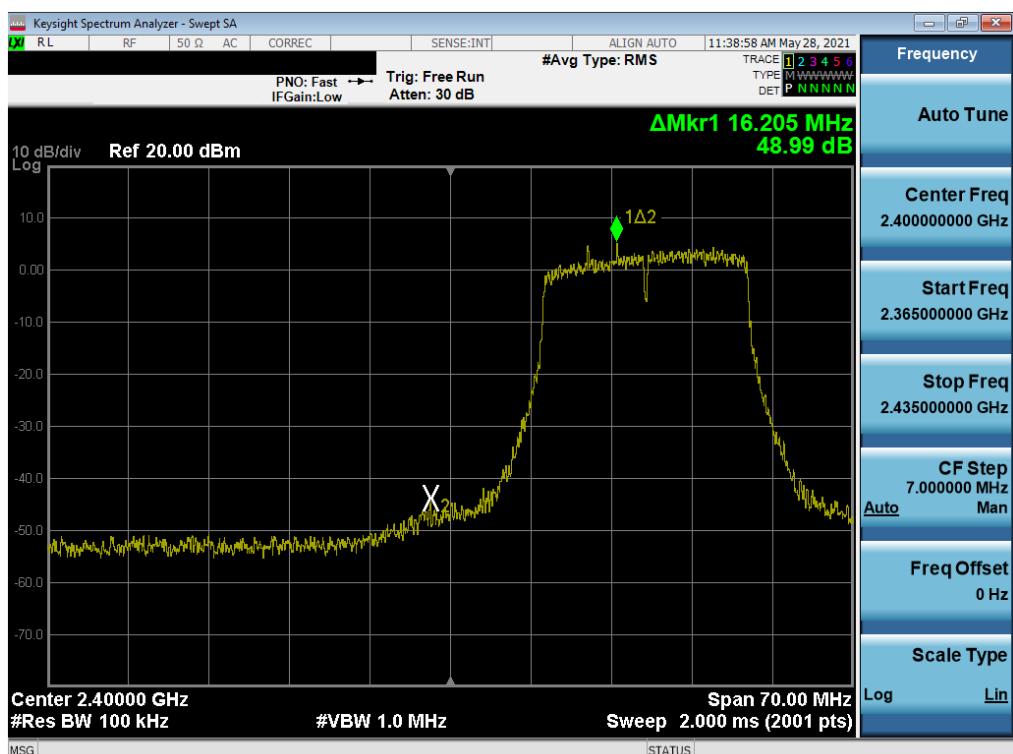
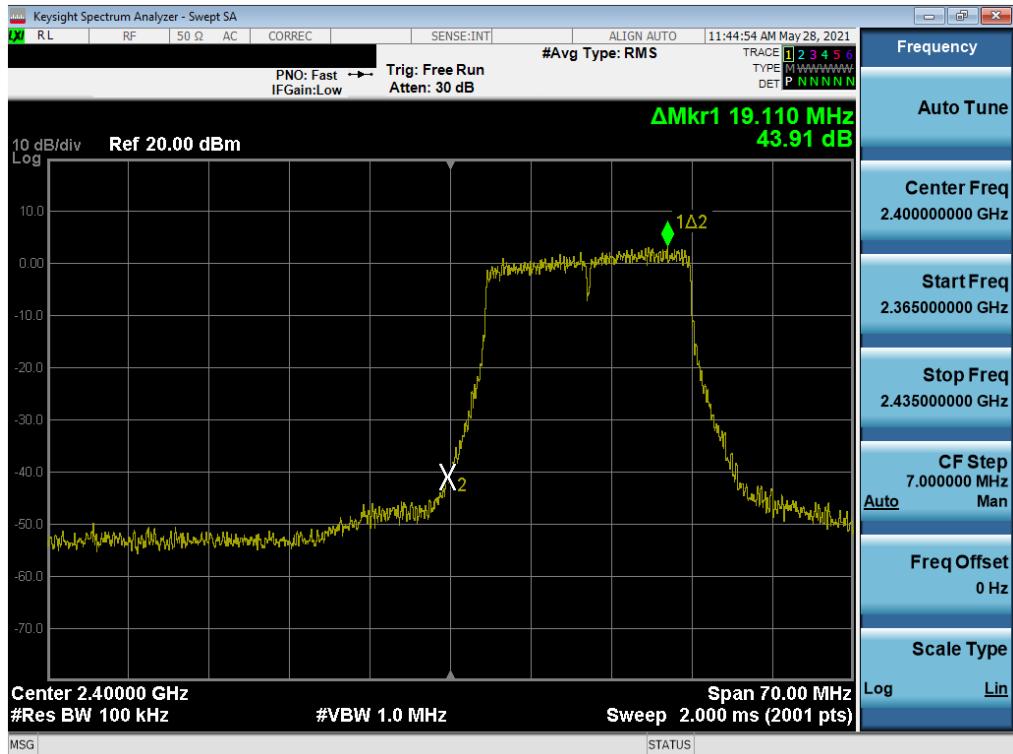


MEASUREMENT REPORT  
(CERTIFICATION)

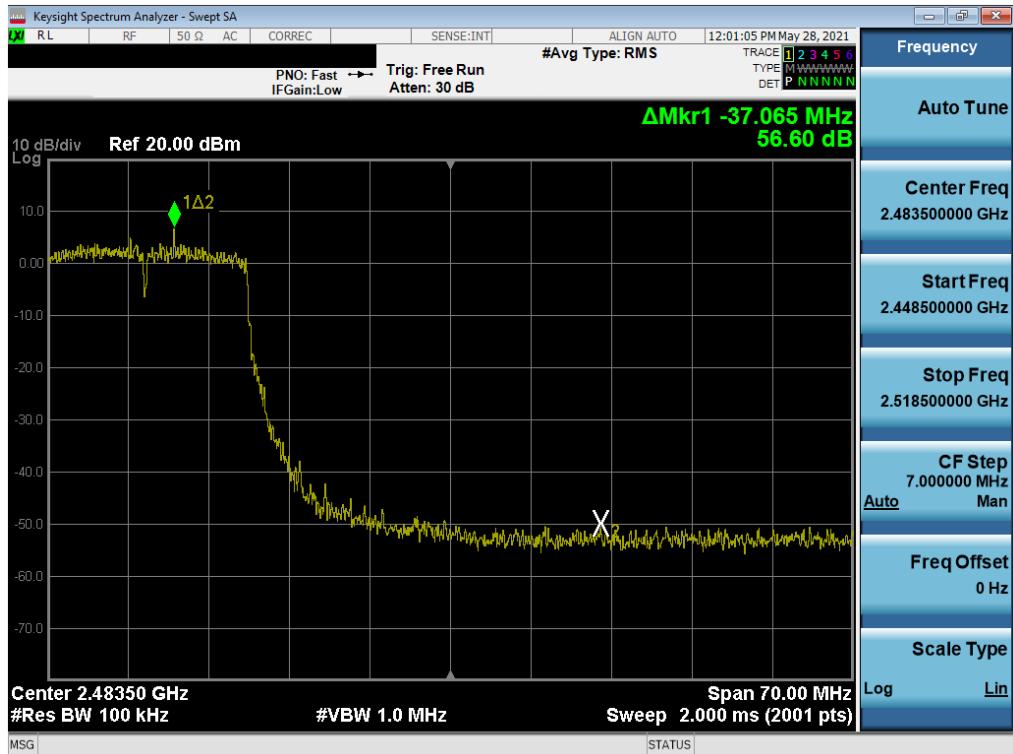


Approved by:  
Technical Manager

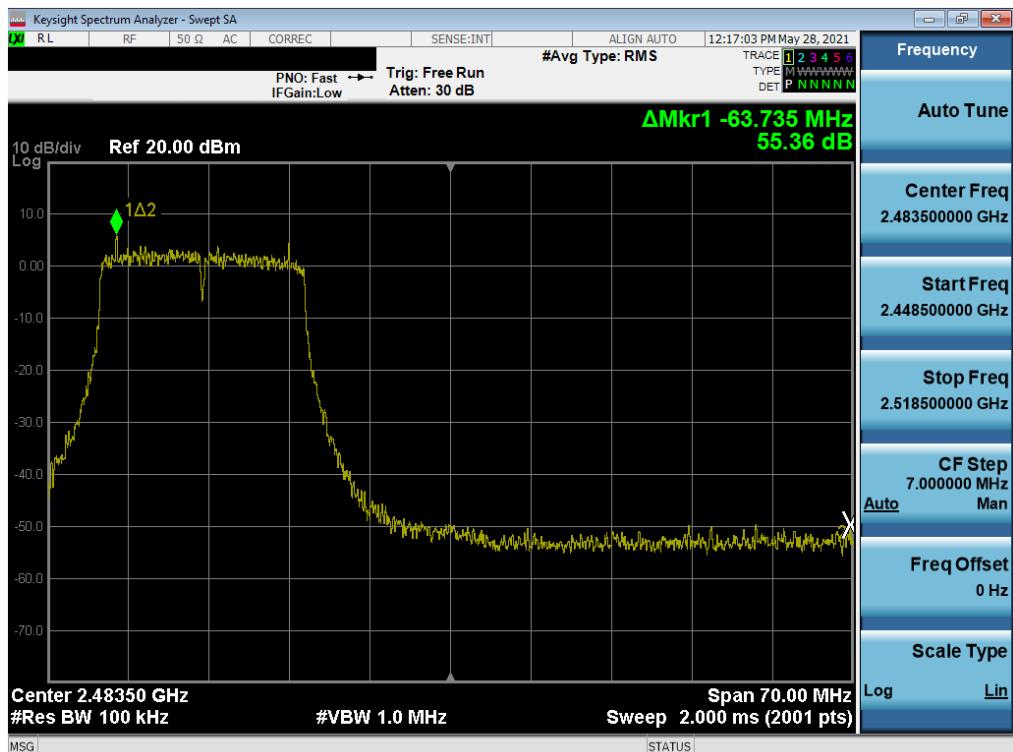
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|   |  |                                       |   |
|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 91 of 182  |

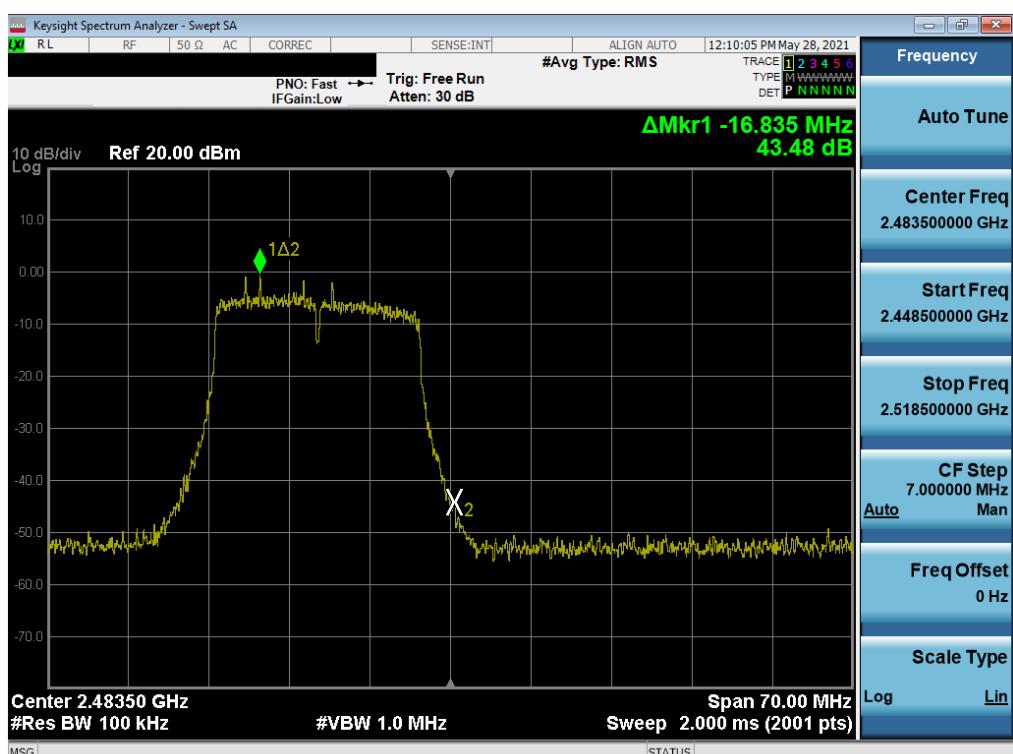
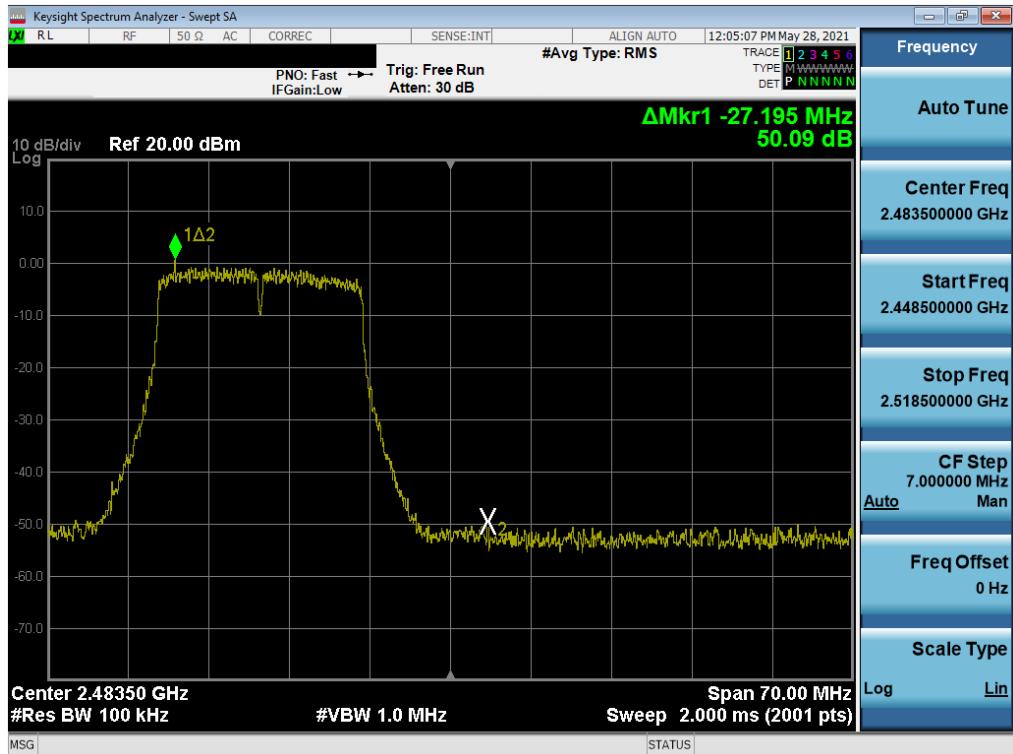


Plot 7-123. Band Edge Plot SISO SOUTH (802.11n 20MHz BW (2.4GHz) – Ch. 10)

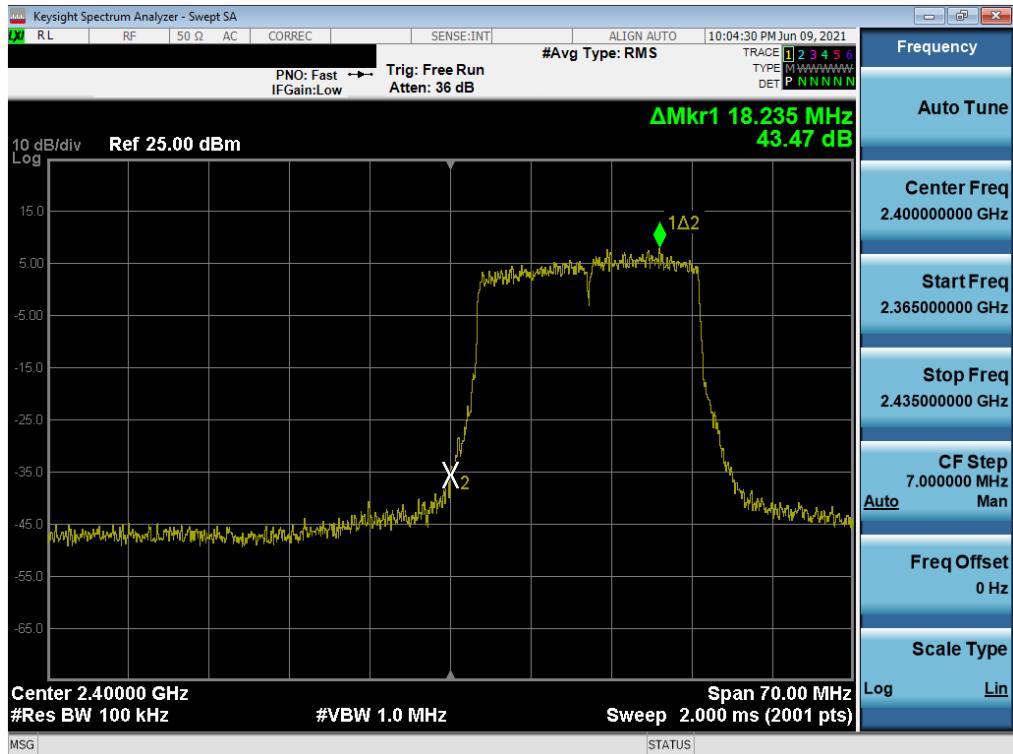


Plot 7-124. Band Edge Plot SISO SOUTH (802.11n 20MHz BW (2.4GHz) – Ch. 11)

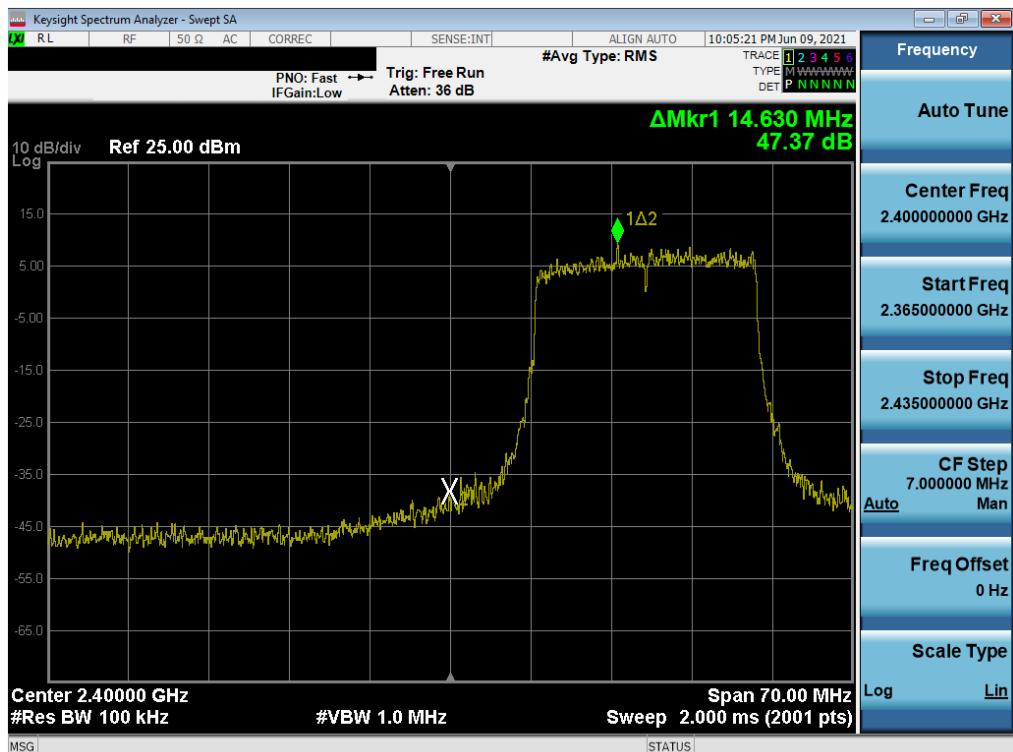
|   |  |                                       |   |
|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 92 of 182  |



|                     |                                     |
|---------------------|-------------------------------------|
| FCC ID: C3K1995     |                                     |
| IC: 3048A-1995      |                                     |
| Test Report S/N:    | Test Dates: 05/20/2021 - 09/02/2021 |
| 1M2105060048-12.C3K | EUT Type: Portable Handset          |

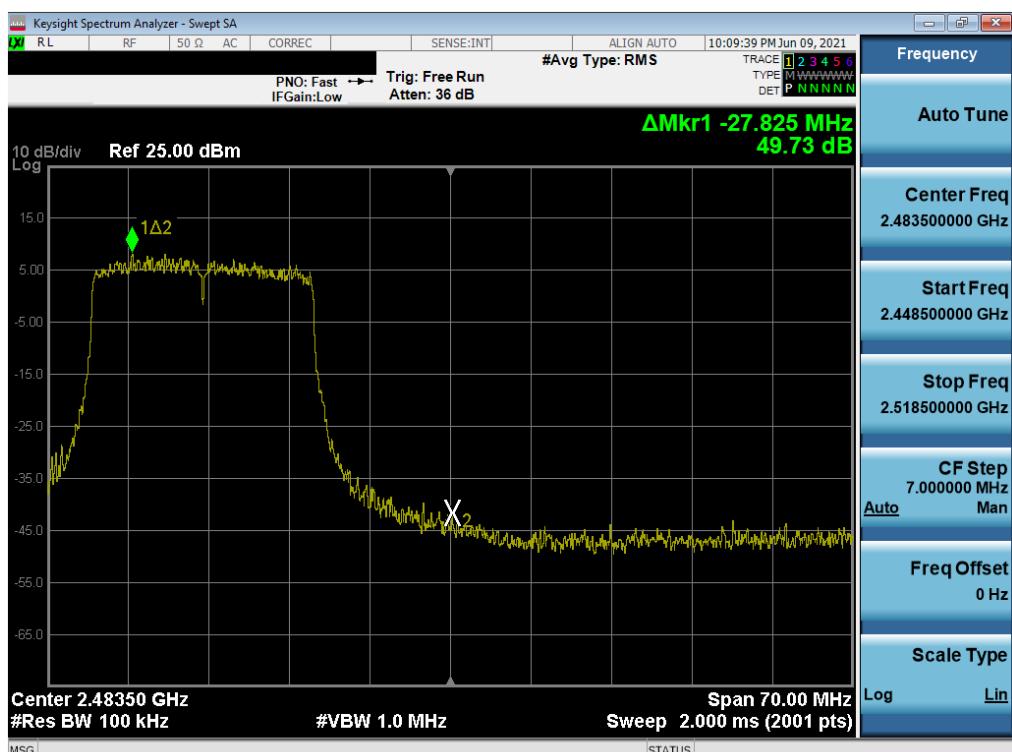
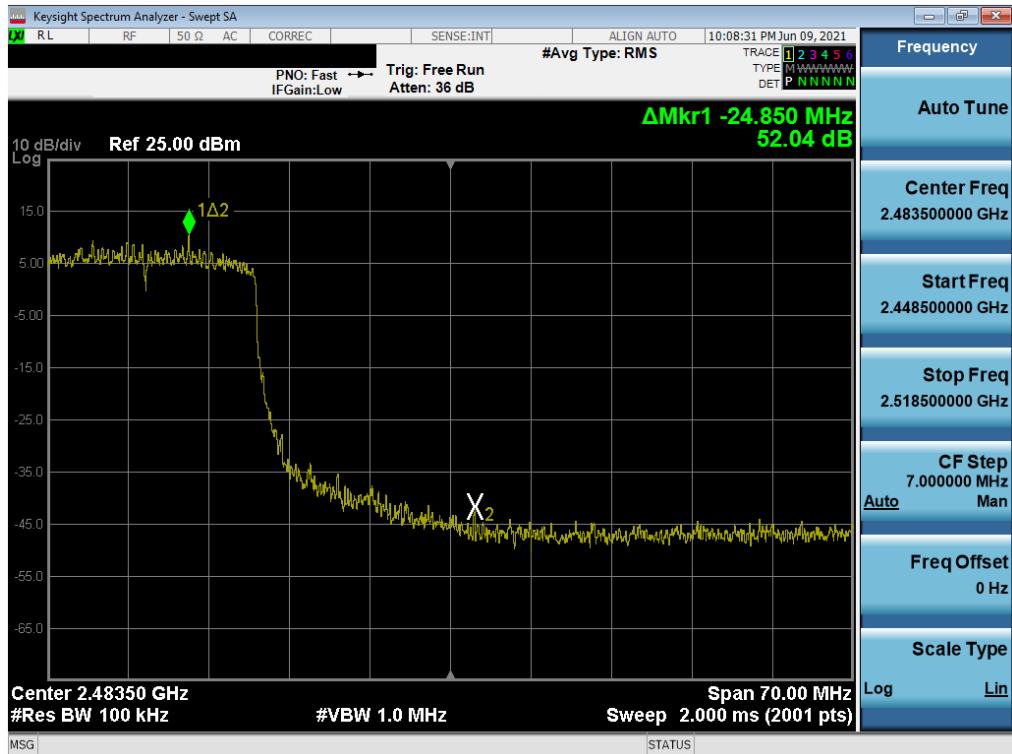


Plot 7-127. Band Edge Plot SISO SOUTH (802.11ax 20MHz BW (2.4GHz) – Ch. 1)

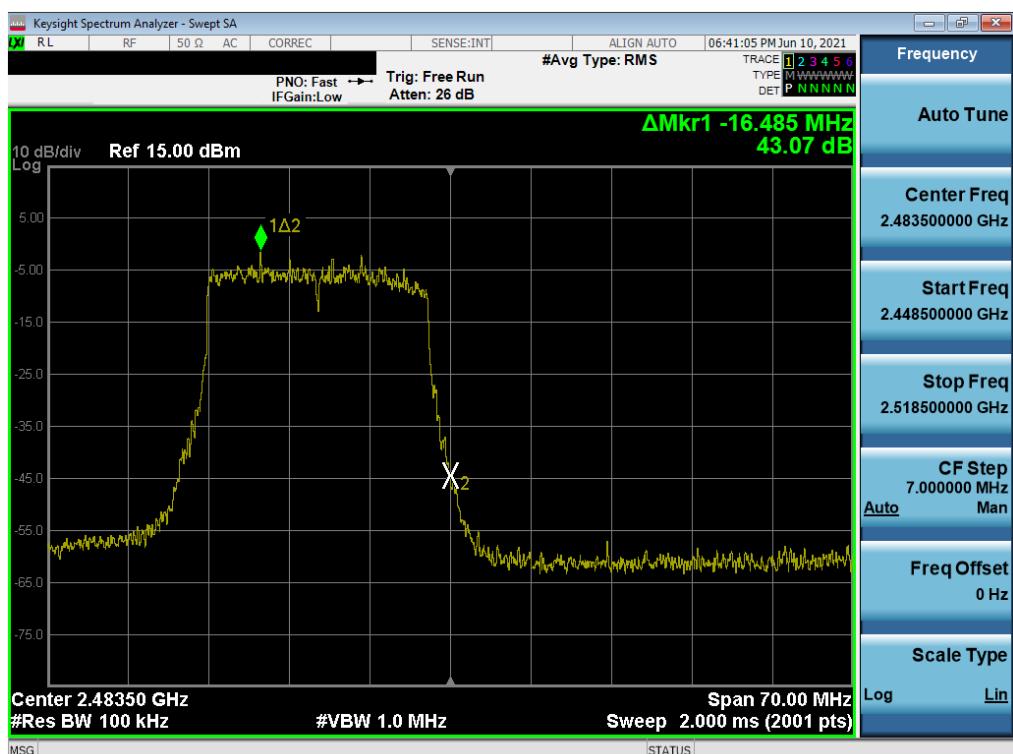
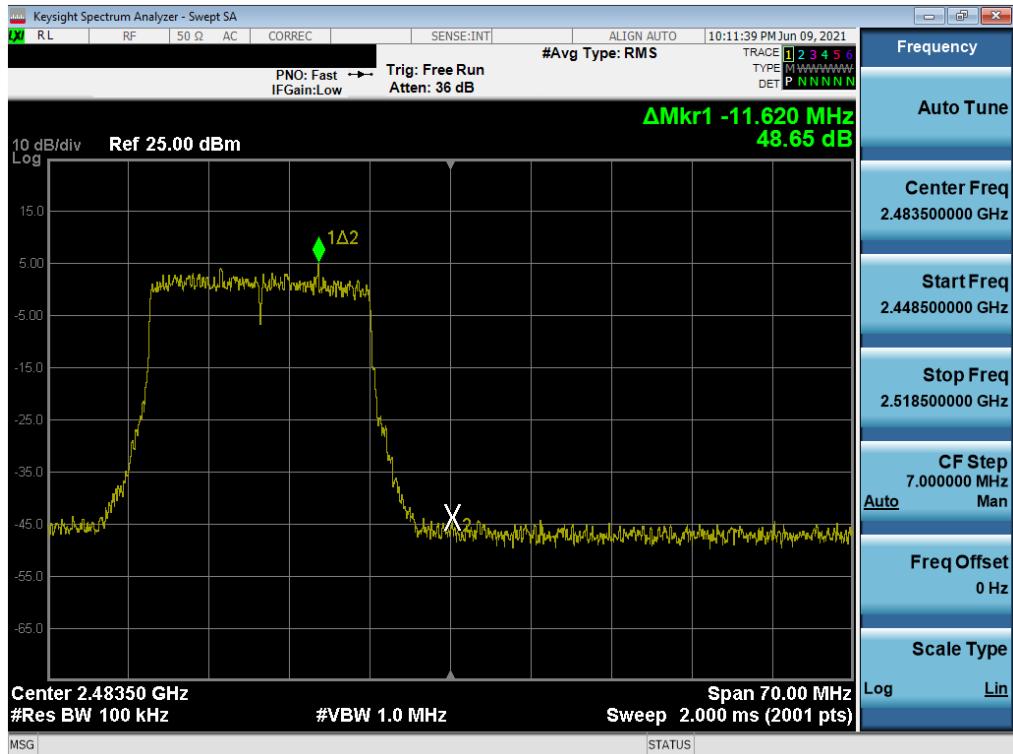


Plot 7-128. Band Edge Plot SISO SOUTH (802.11ax 20MHz BW (2.4GHz) – Ch. 2)

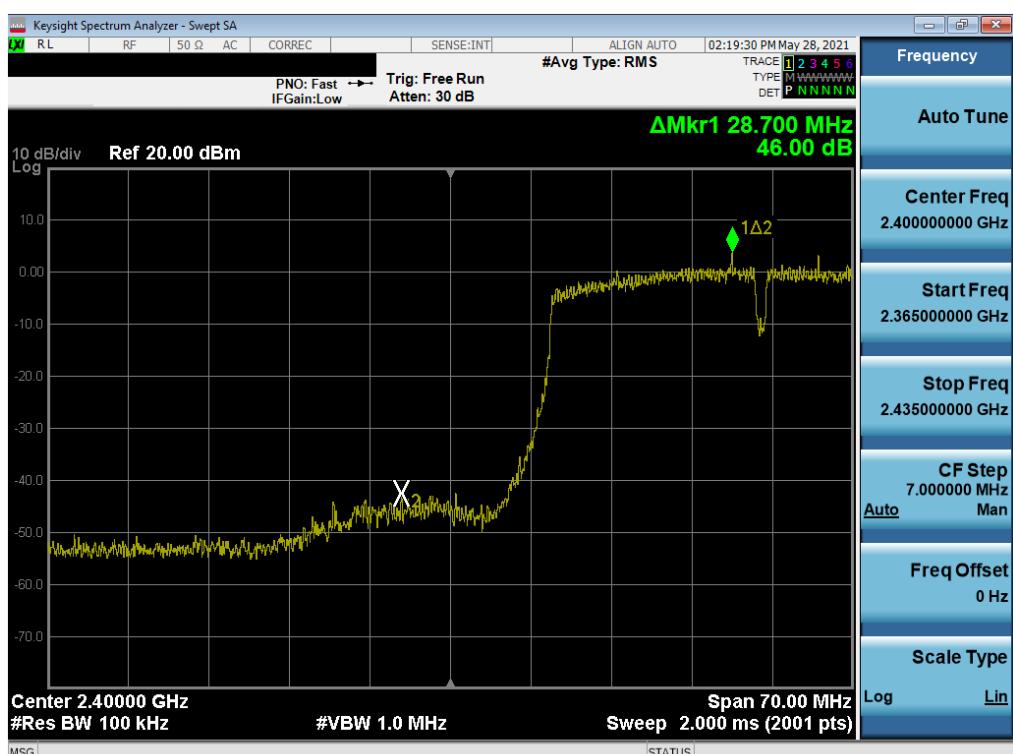
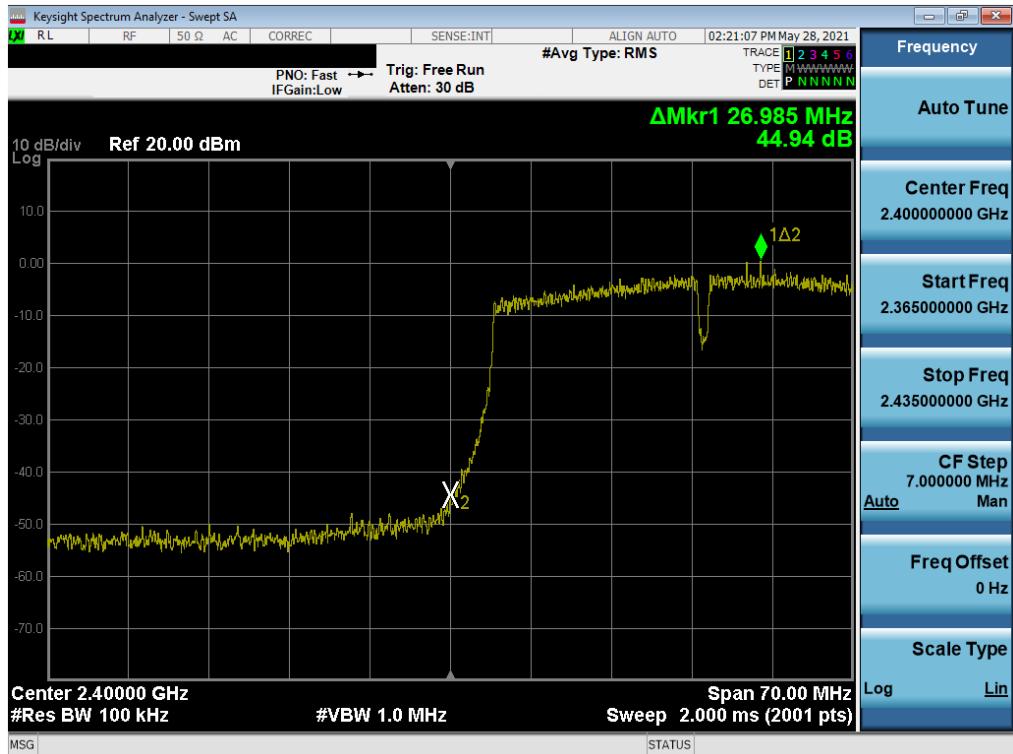
|   |  |                                       |   |
|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 94 of 182  |



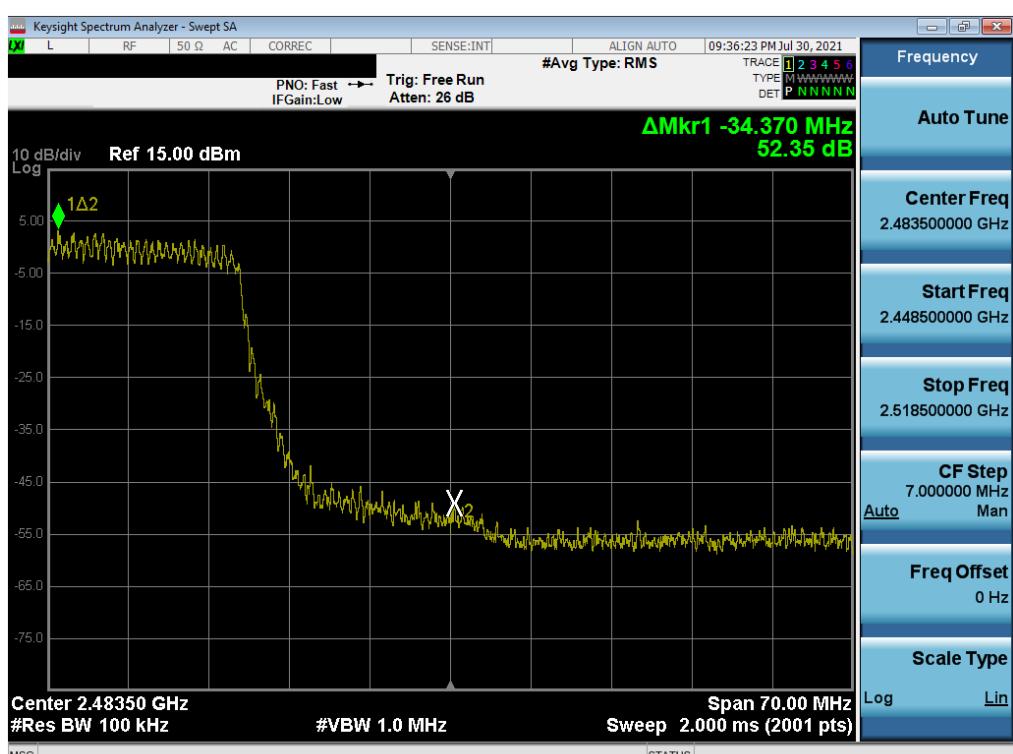
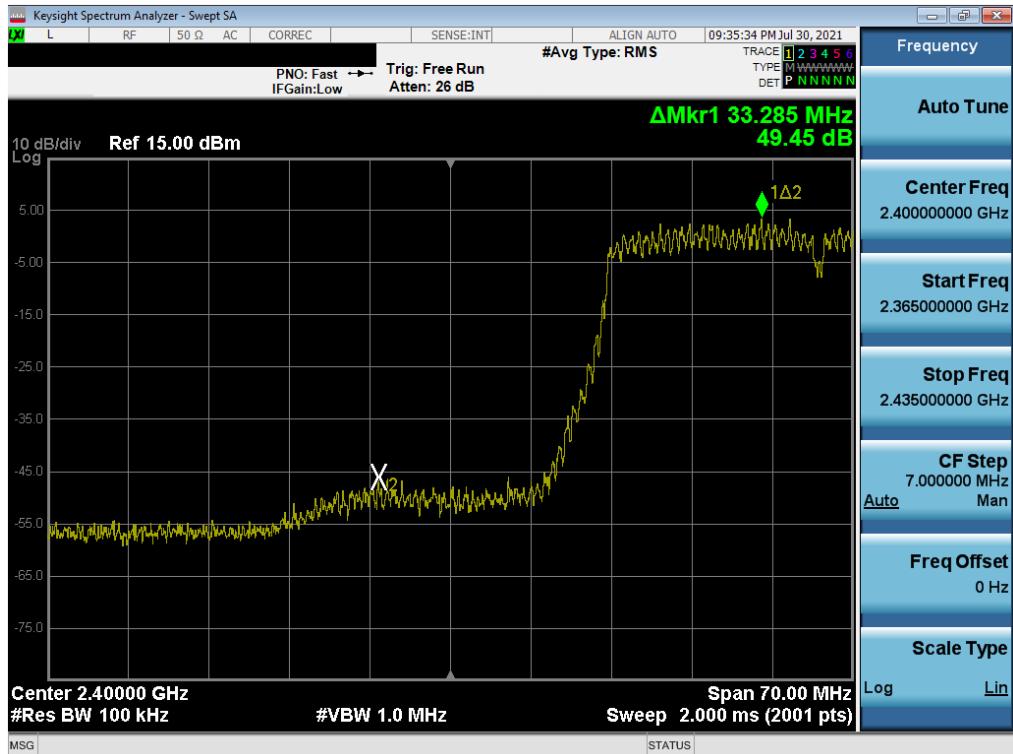
|   |  |                                       |   |                                   |
|---|--|---------------------------------------|---|-----------------------------------|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         |   | Page 95 of 182                    |



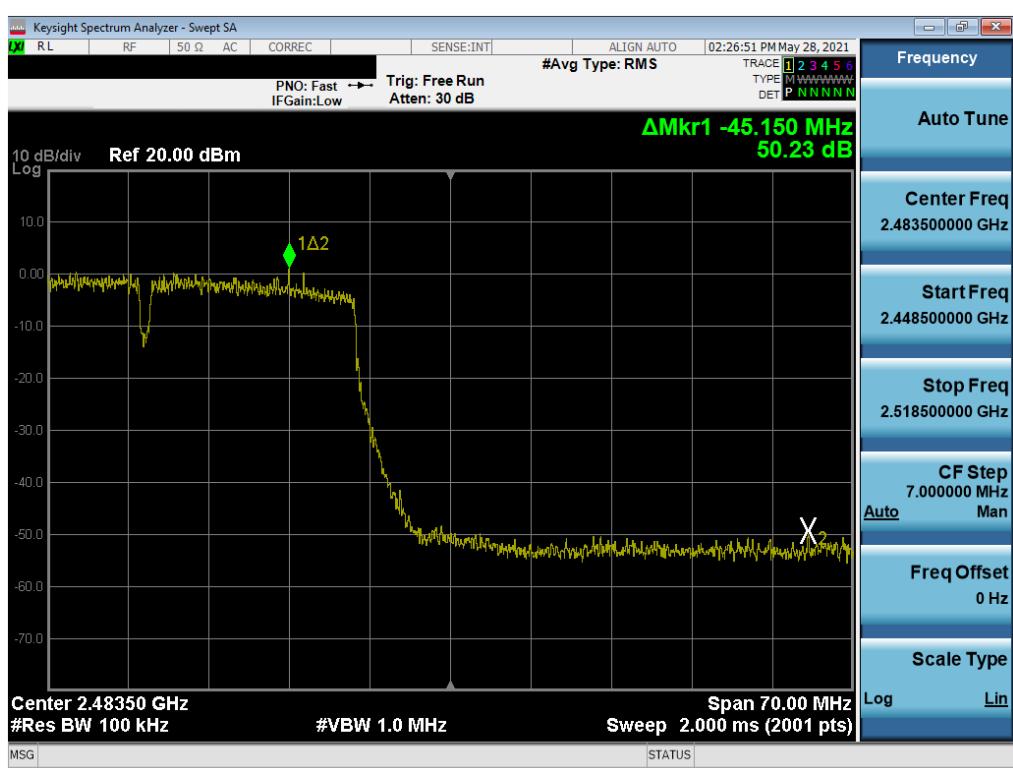
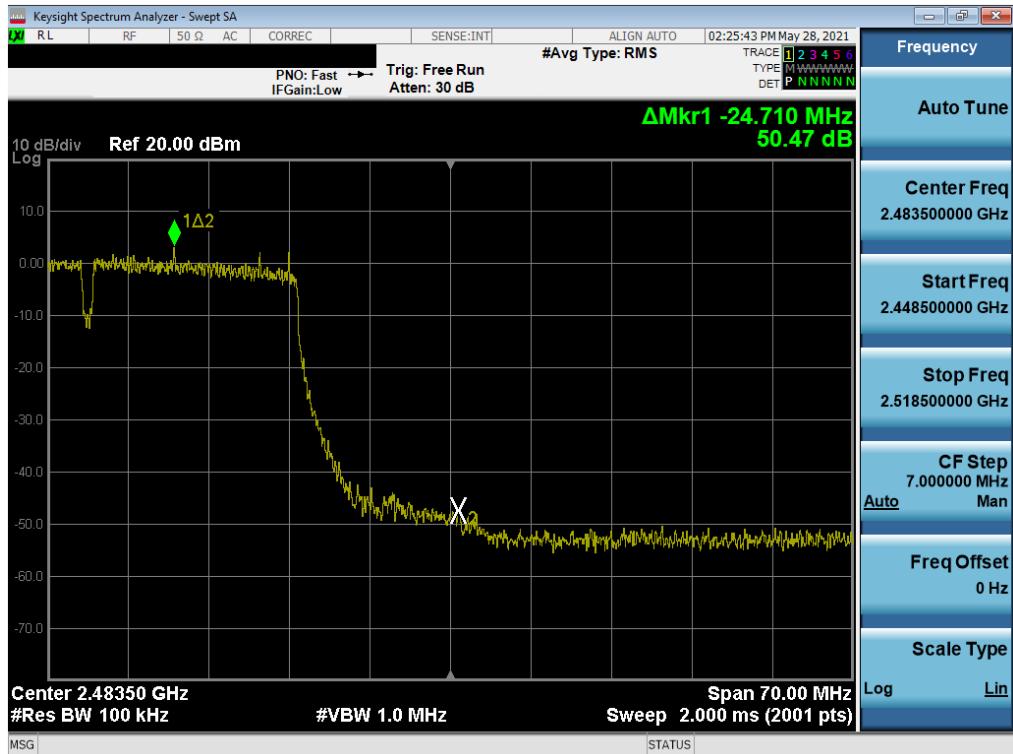
|   |  |                                       |  |
|---|--|---------------------------------------|--|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>PCTEST<br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | <br>Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 96 of 182   |



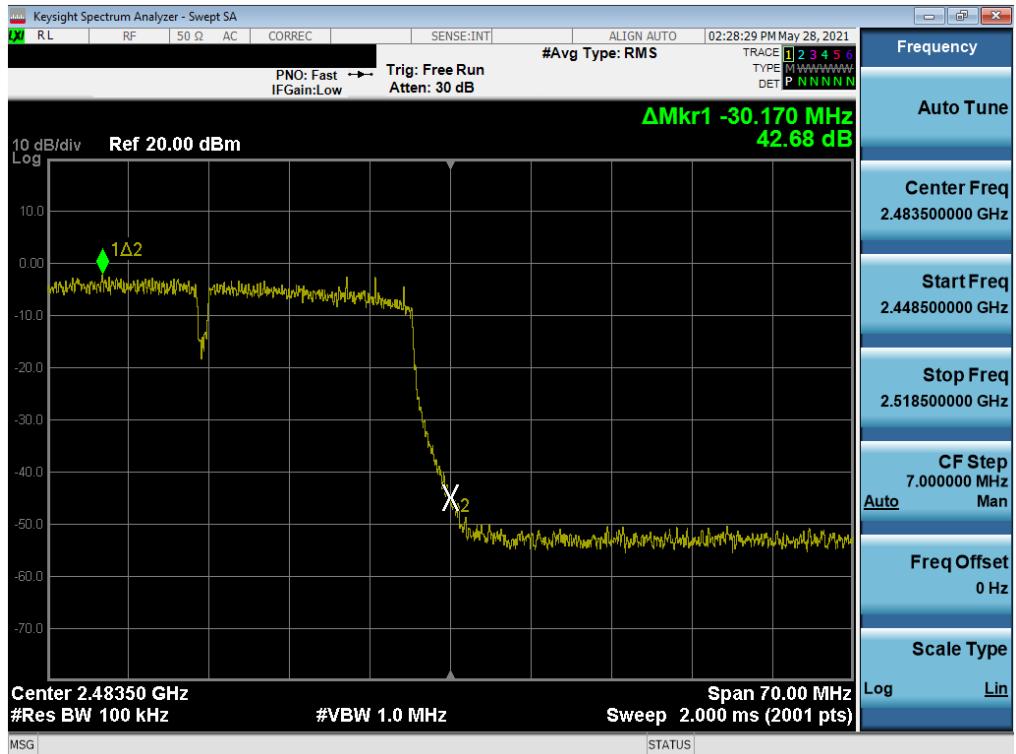
|   |  |                                       |  |
|---|--|---------------------------------------|--|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>PCTEST<br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | <br>Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 97 of 182   |



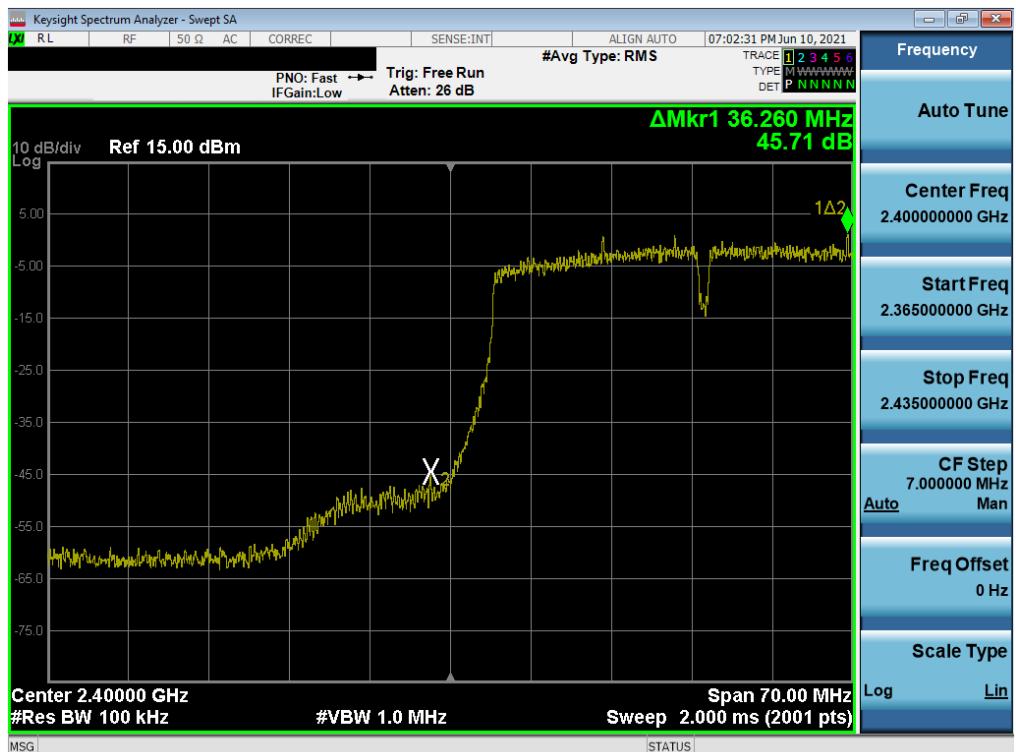
|   |  |                                       |   |                                   |
|---|--|---------------------------------------|---|-----------------------------------|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>PCTEST<br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Microsoft | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         |   | Page 98 of 182                    |



|   |  |                                       |  |
|---|--|---------------------------------------|--|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>PCTEST<br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | <br>Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 99 of 182   |

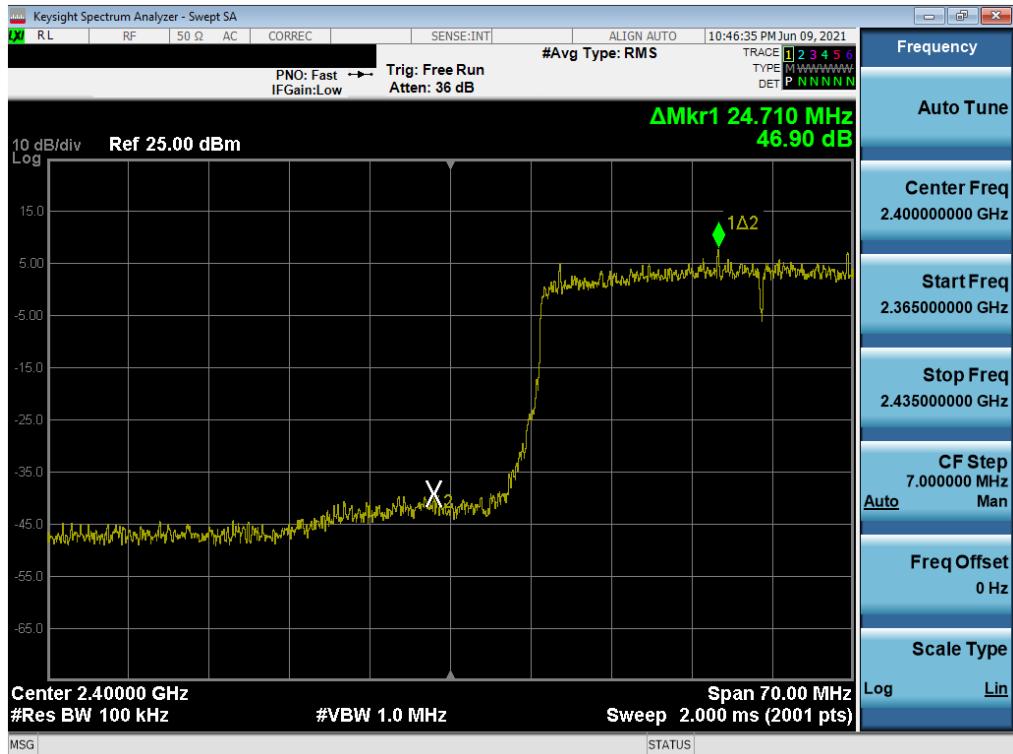


Plot 7-139. Band Edge Plot SISO SOUTH (802.11n 40MHz BW (2.4GHz) – Ch. 11)

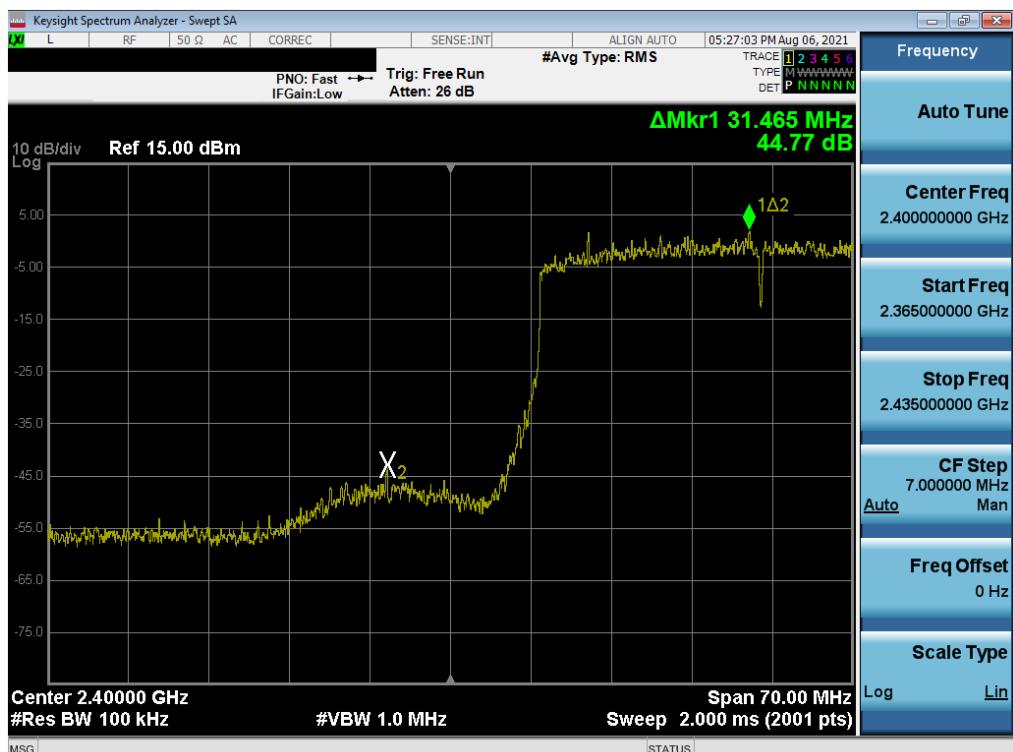


Plot 7-140. Band Edge Plot SISO SOUTH (802.11ax 40MHz BW (2.4GHz) – Ch. 3)

|   |  |                                       |   |
|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 100 of 182   |

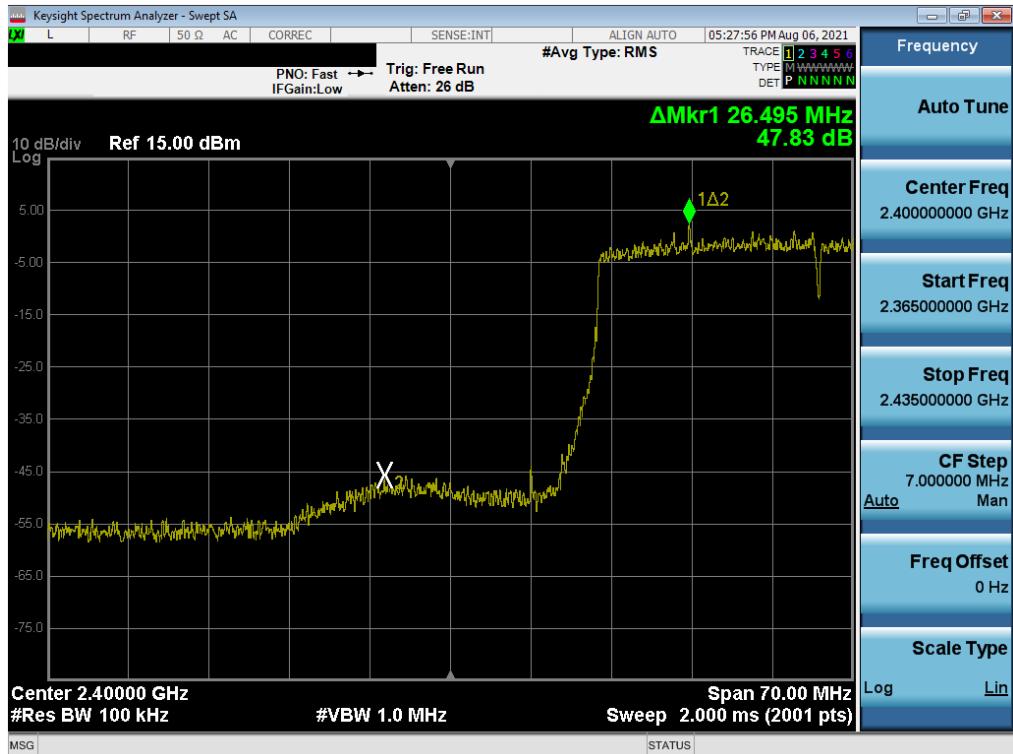


Plot 7-141. Band Edge Plot SISO SOUTH (802.11ax 40MHz BW (2.4GHz) – Ch. 4)

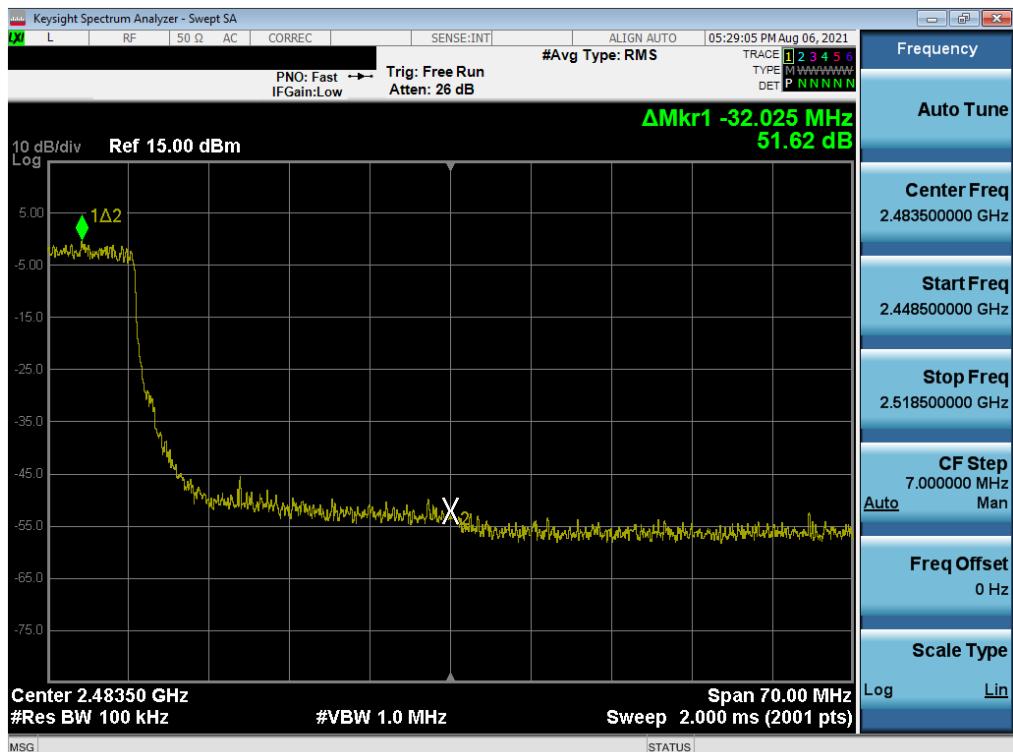


Plot 7-142. Band Edge Plot SISO SOUTH (802.11ax 40MHz BW (2.4GHz) – Ch. 5)

|   |  |                                       |   |
|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 101 of 182   |

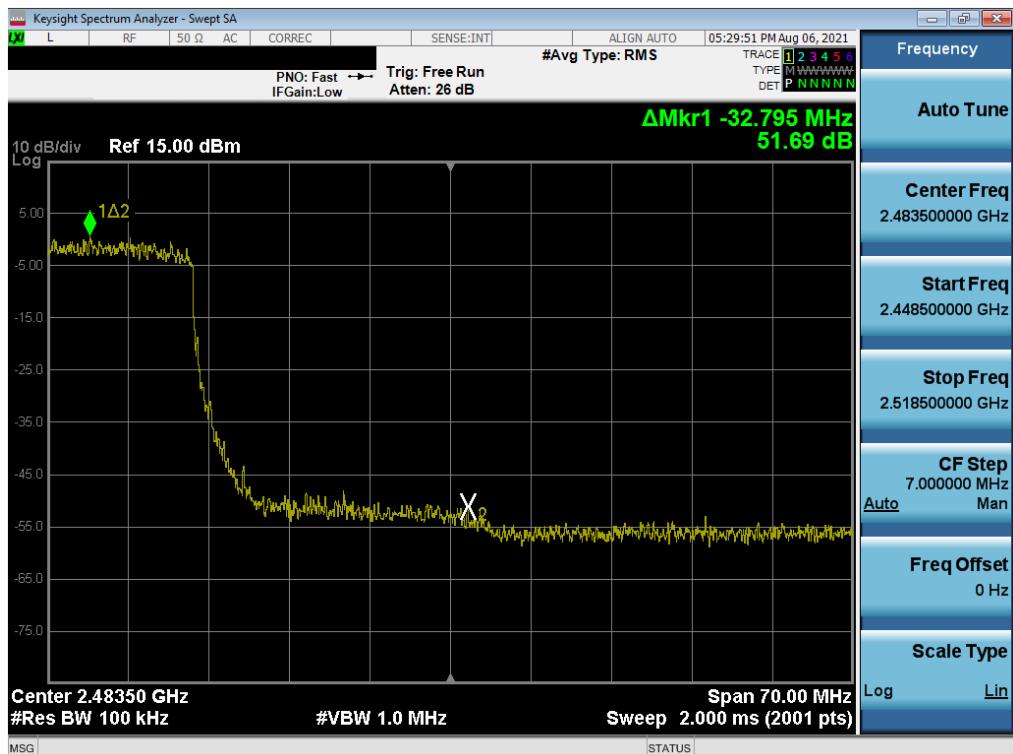


Plot 7-143. Band Edge Plot SISO SOUTH (802.11ax 40MHz BW (2.4GHz) – Ch. 6)

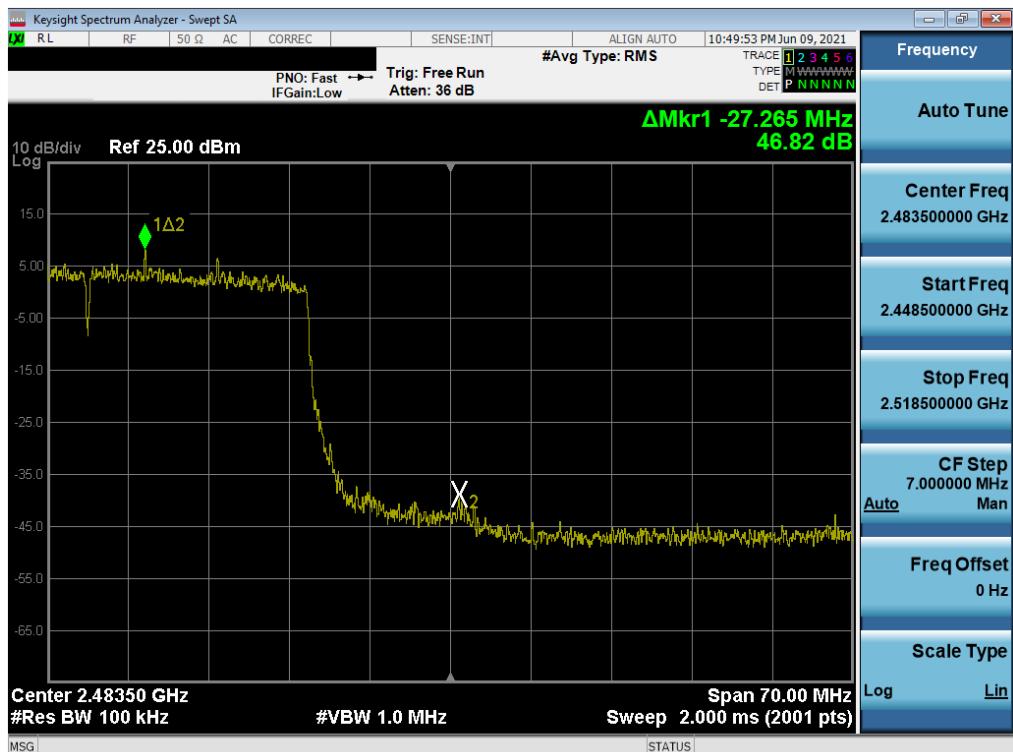


Plot 7-144. Band Edge Plot SISO SOUTH (802.11ax 40MHz BW (2.4GHz) – Ch. 7)

|   |  |                                       |   |
|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 102 of 182   |

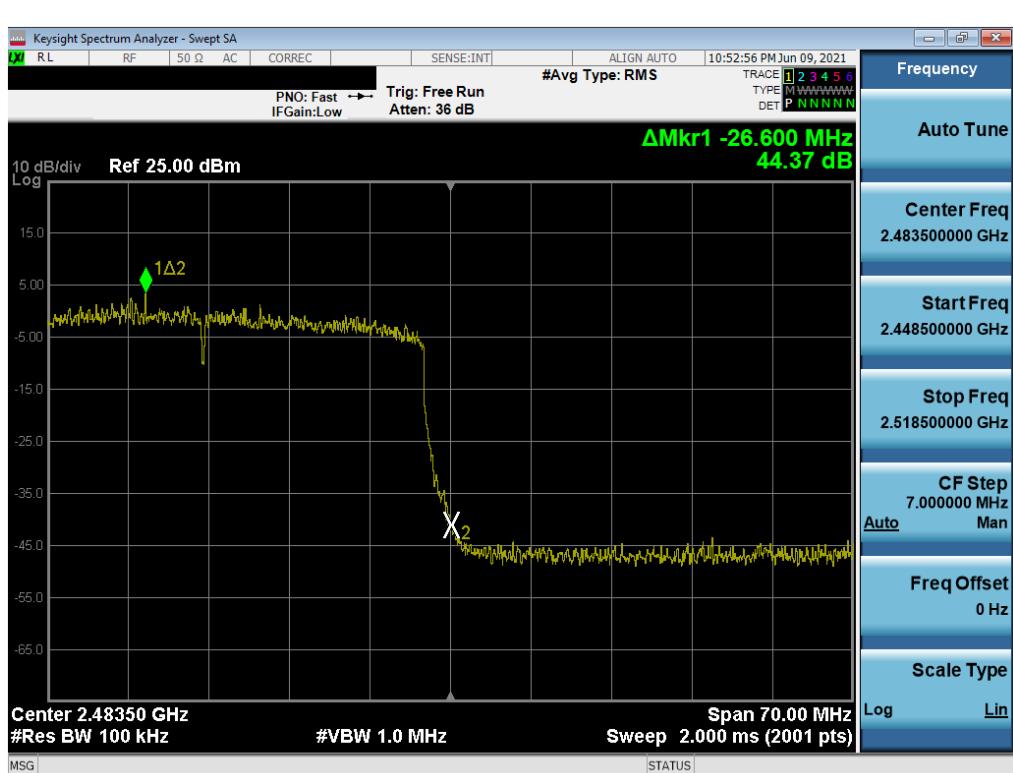
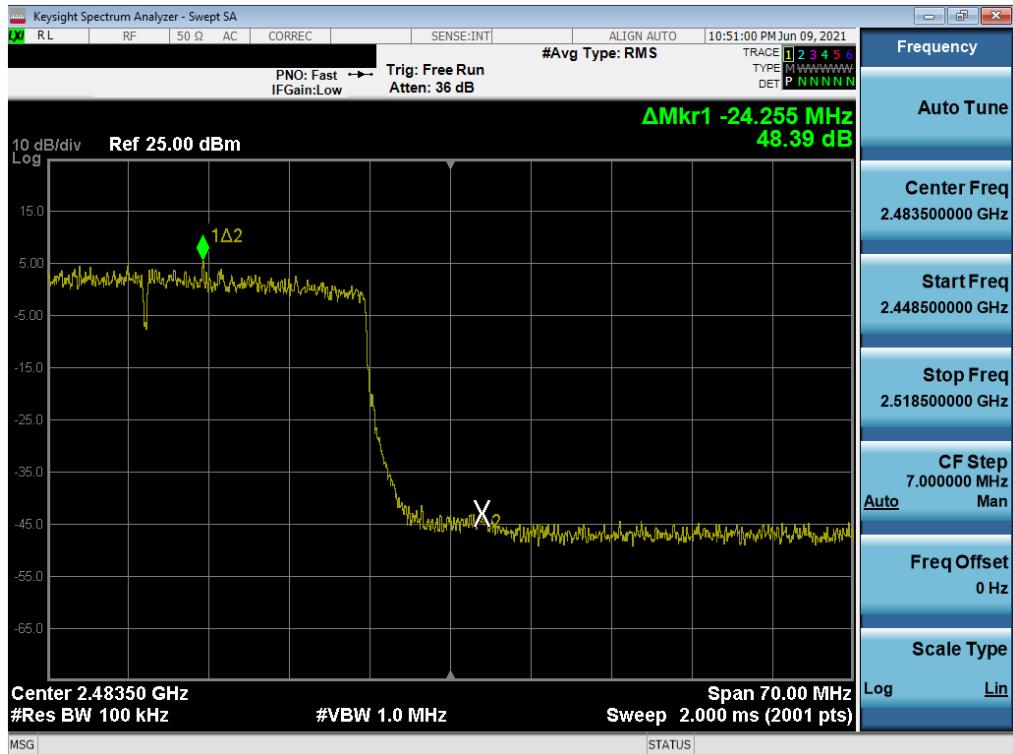


Plot 7-145. Band Edge Plot SISO SOUTH (802.11ax 40MHz BW (2.4GHz) – Ch. 8)



Plot 7-146. Band Edge Plot SISO SOUTH (802.11ax 40MHz BW (2.4GHz) – Ch. 9)

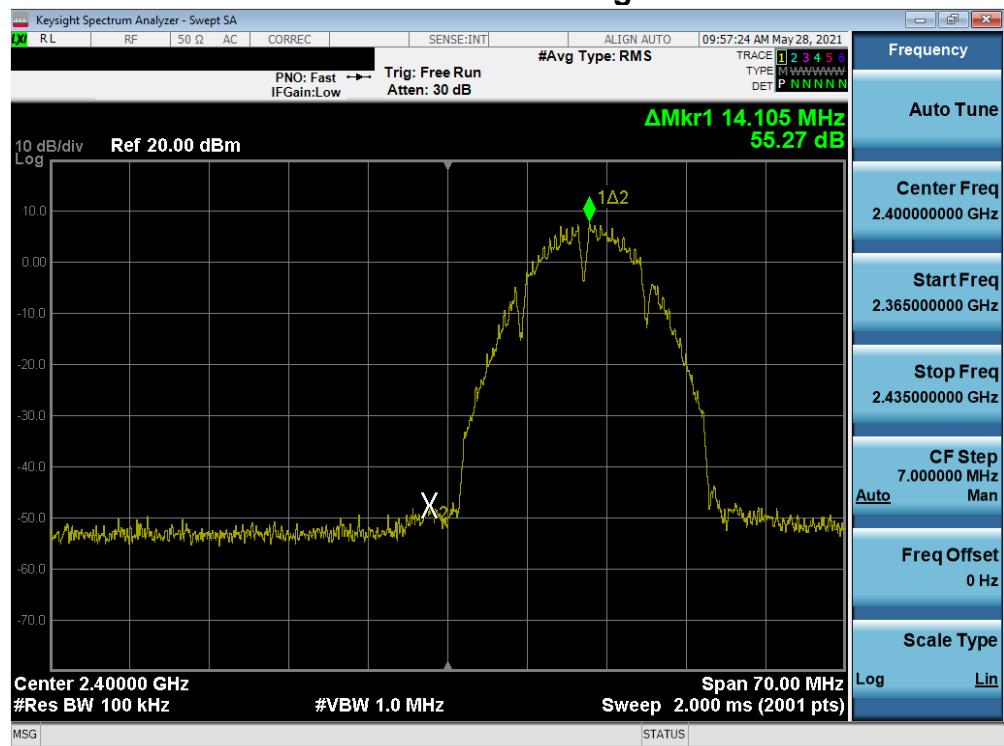
|   |  |                                       |                                   |
|---|--|---------------------------------------|-----------------------------------|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 103 of 182                   |



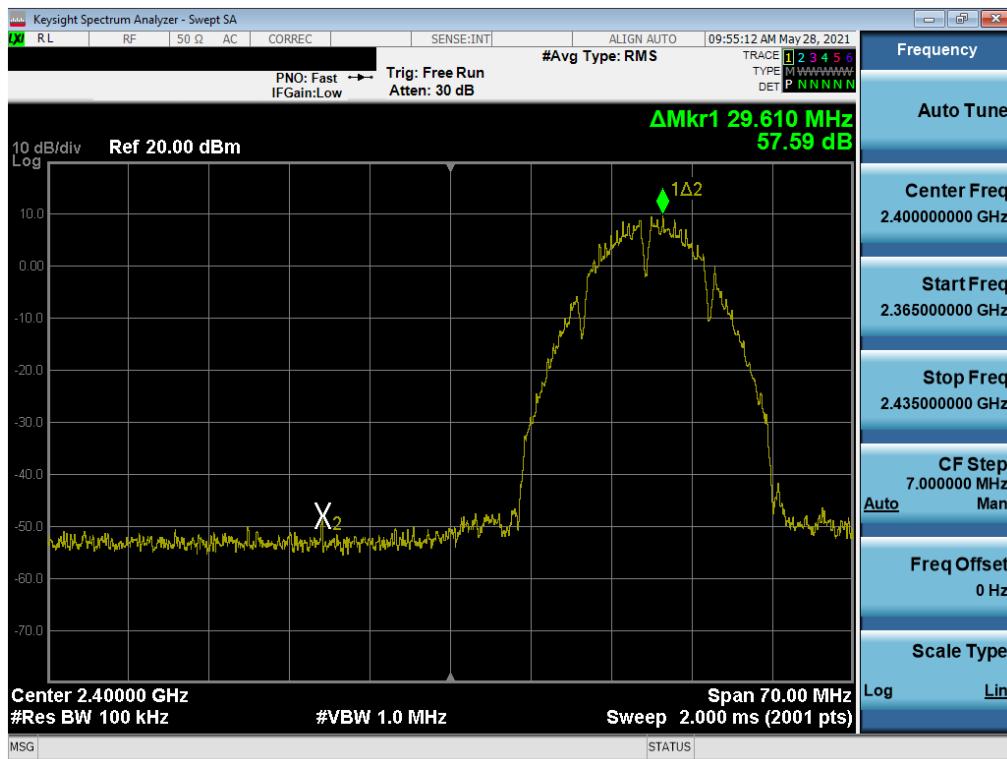
Plot 7-148. Band Edge Plot SISO SOUTH (802.11ax 40MHz BW (2.4GHz) – Ch. 11)

|   |  |                                       |  |
|---|--|---------------------------------------|--|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>PCTEST<br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | <br>Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 104 of 182  |

## SISO NORTH Conducted Emissions at the Band Edge

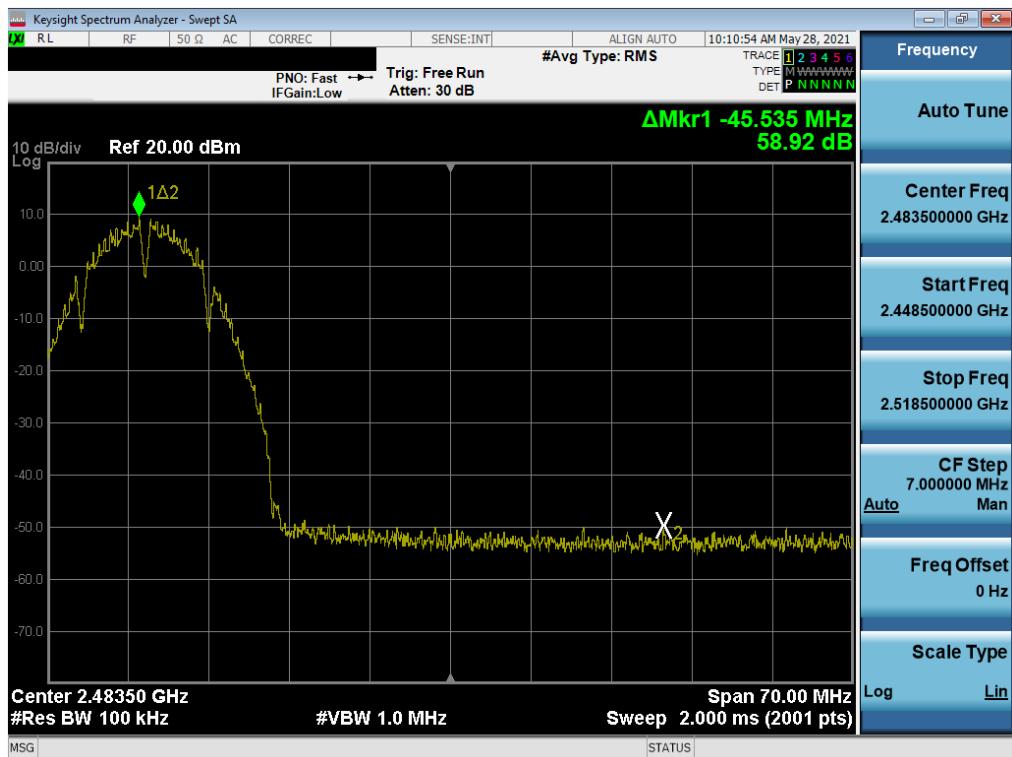


Plot 7-149. Band Edge Plot SISO NORTH (802.11b – Ch. 1)



Plot 7-150. Band Edge Plot SISO NORTH (802.11b – Ch. 2)

|   |  |                                       |  |
|---|--|---------------------------------------|--|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>PCTEST<br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | <br>Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 105 of 182  |

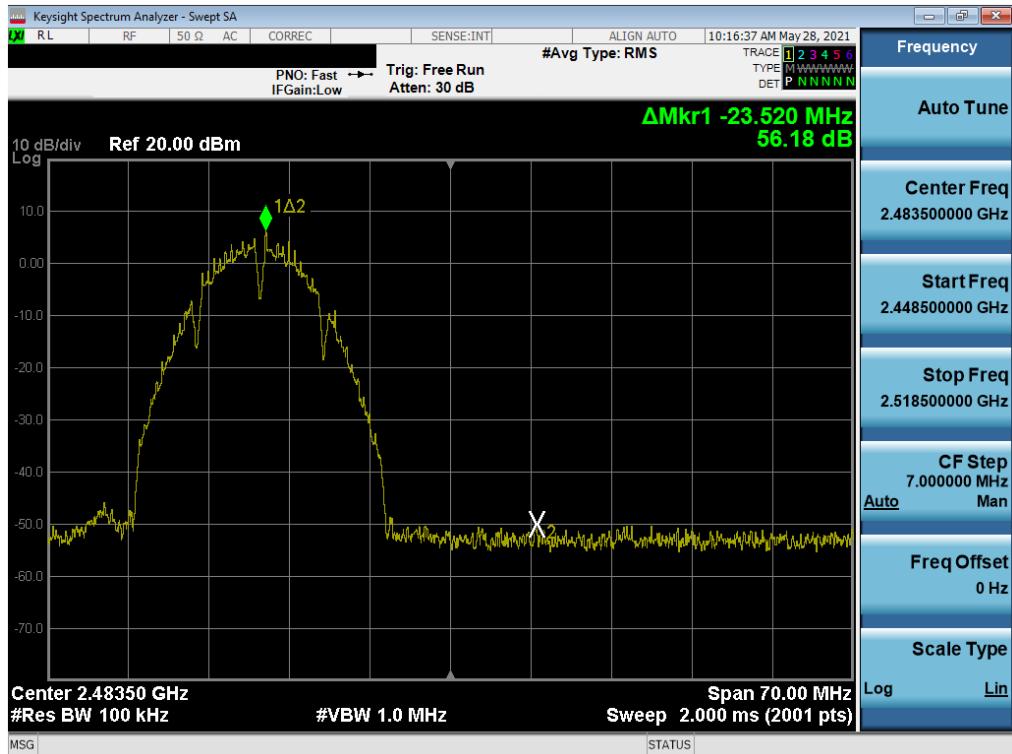


Plot 7-151. Band Edge Plot SISO NORTH (802.11b – Ch. 10)

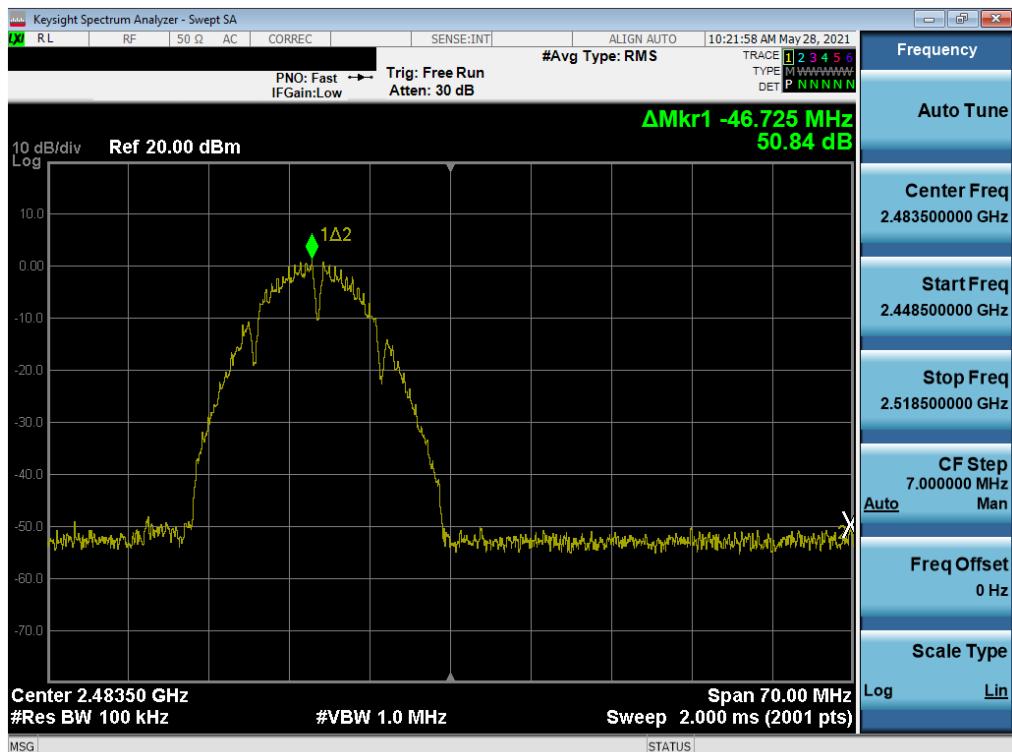


Plot 7-152. Band Edge Plot SISO NORTH (802.11b – Ch. 11)

|   |  |                                       |   |
|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 106 of 182   |

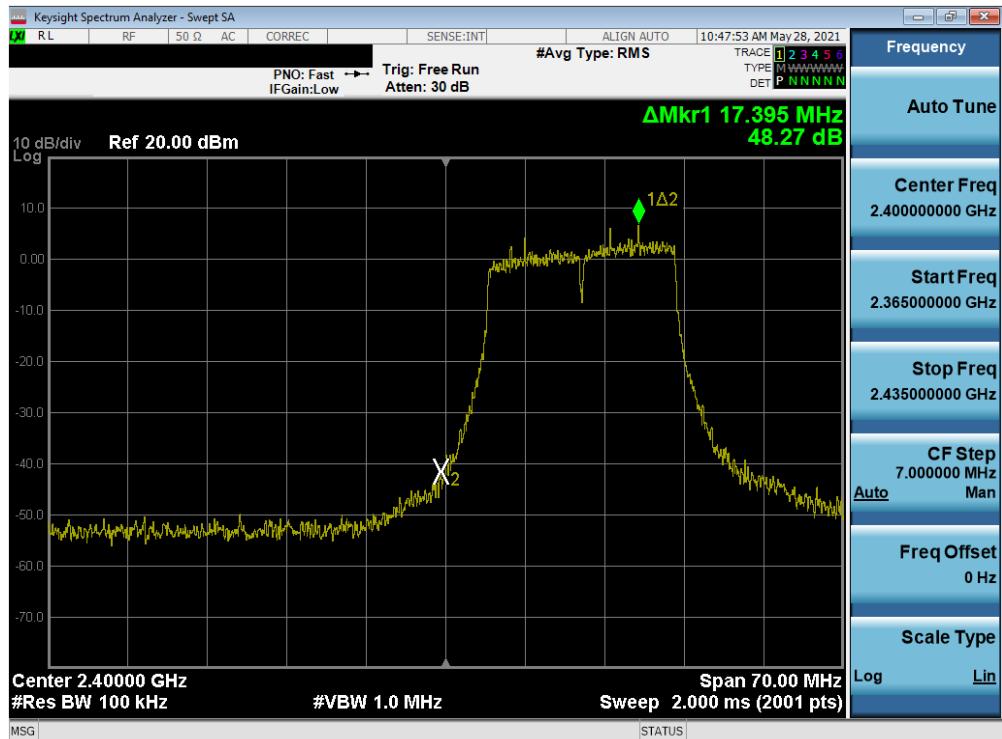


Plot 7-153. Band Edge Plot SISO NORTH (802.11b – Ch. 12)

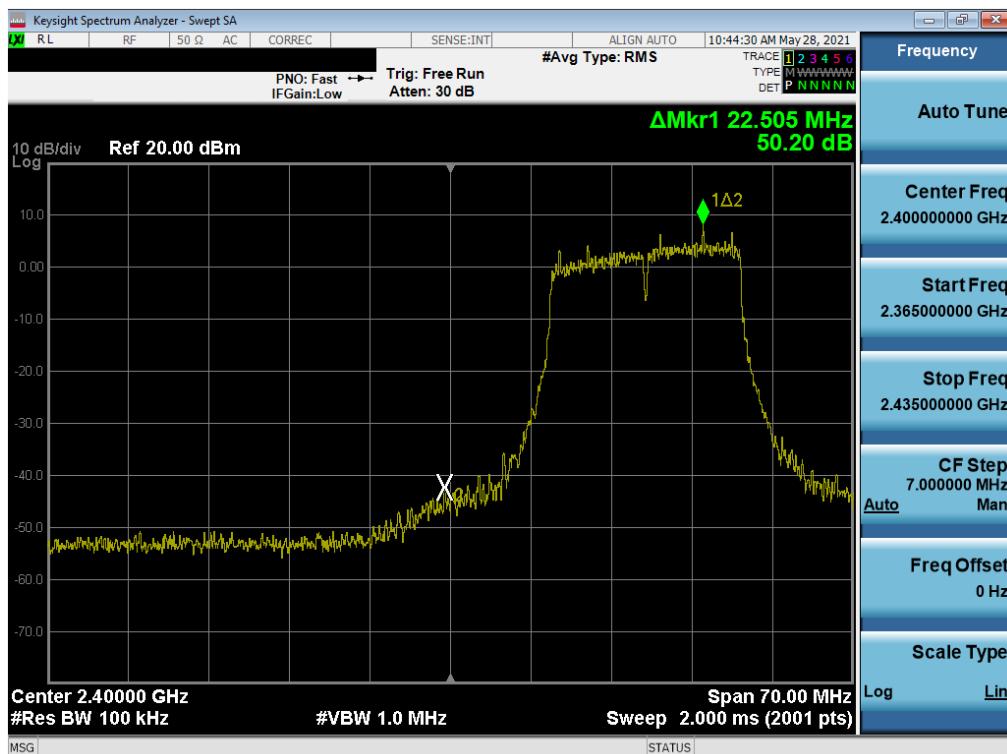


Plot 7-154. Band Edge Plot SISO NORTH (802.11b – Ch. 13)

|   |  |                                       |   |
|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 107 of 182   |

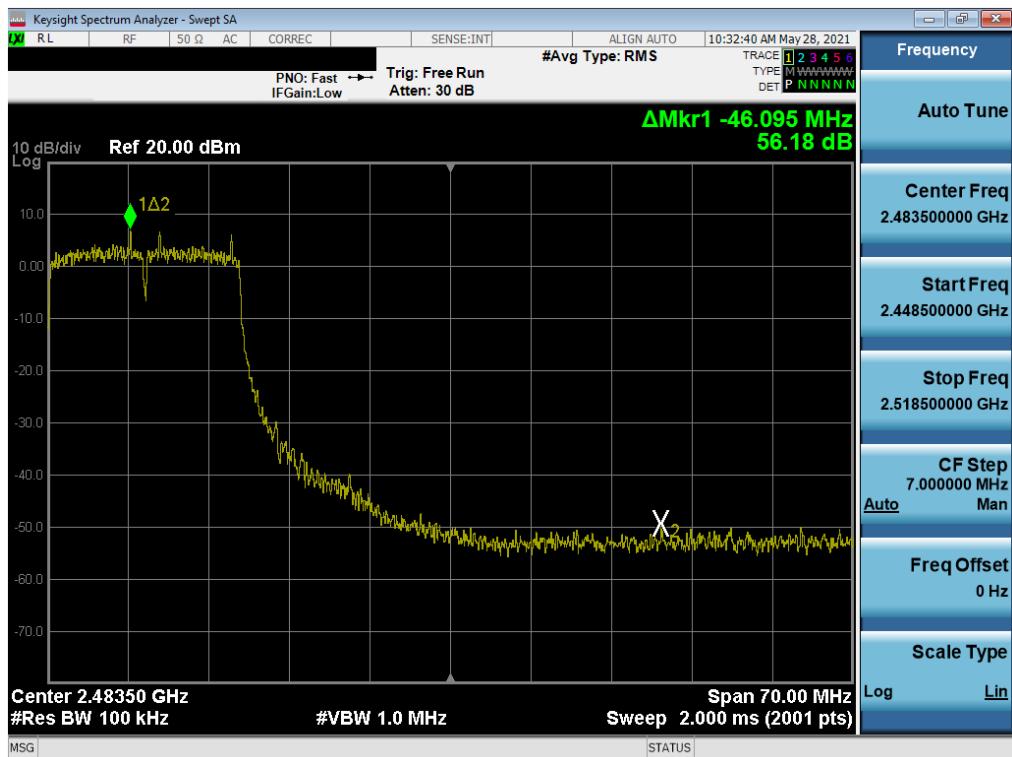


Plot 7-155. Band Edge Plot SISO NORTH (802.11g- Ch. 1)

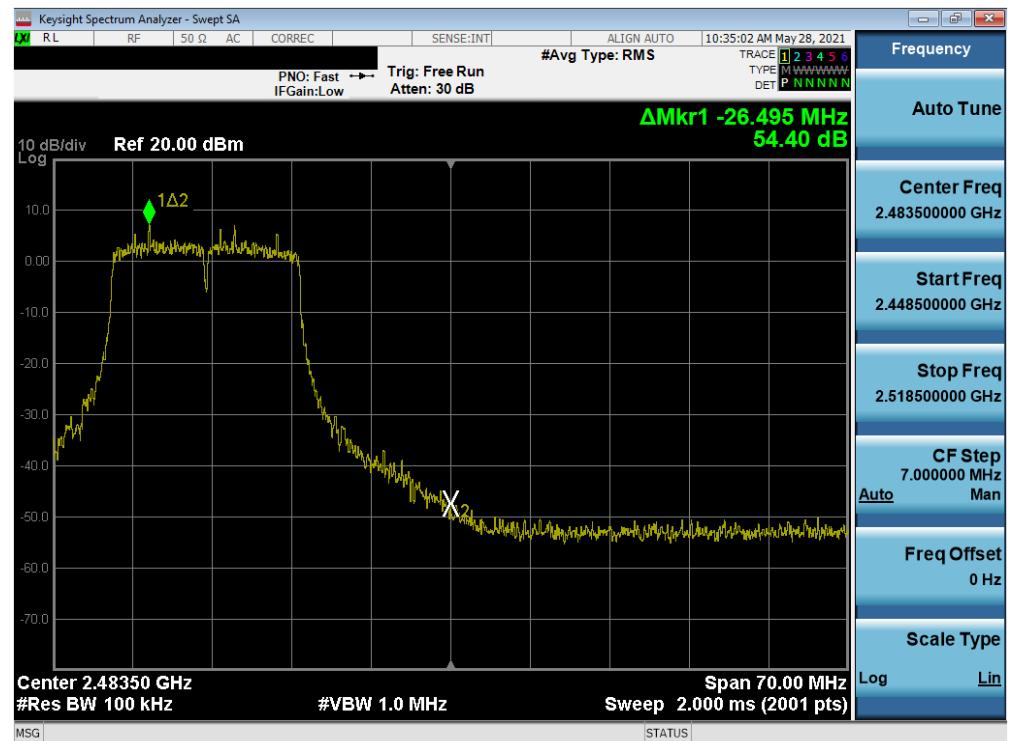


Plot 7-156. Band Edge Plot SISO NORTH (802.11g- Ch. 2)

|   |  |                                       |  |
|---|--|---------------------------------------|--|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>PCTEST<br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | <br>Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 108 of 182  |

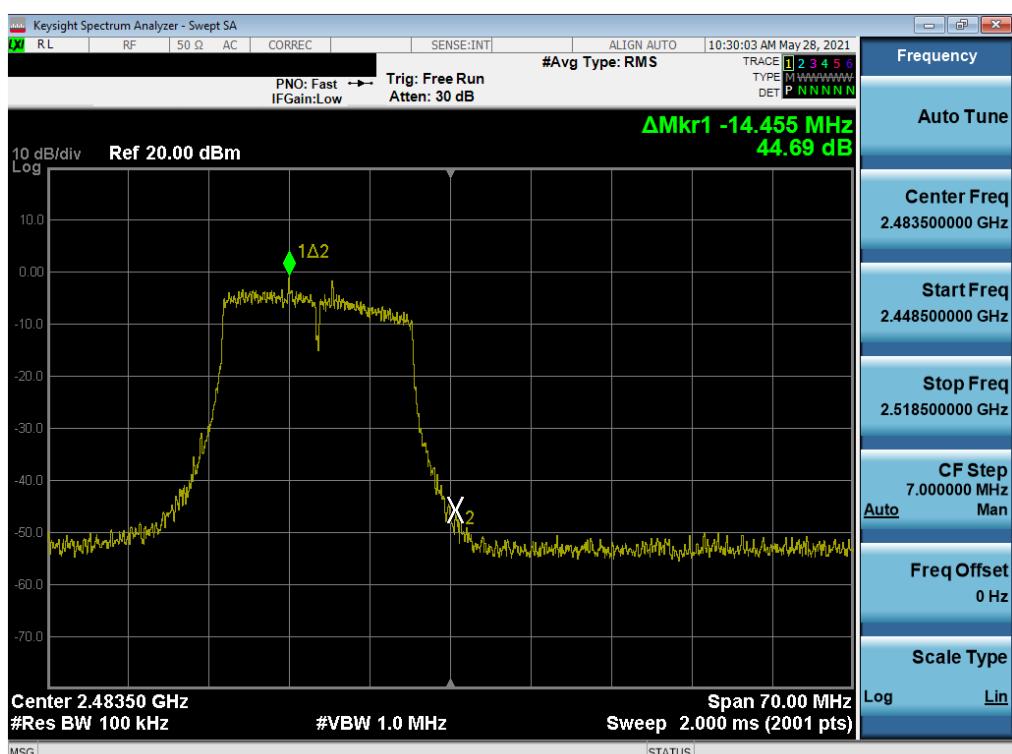
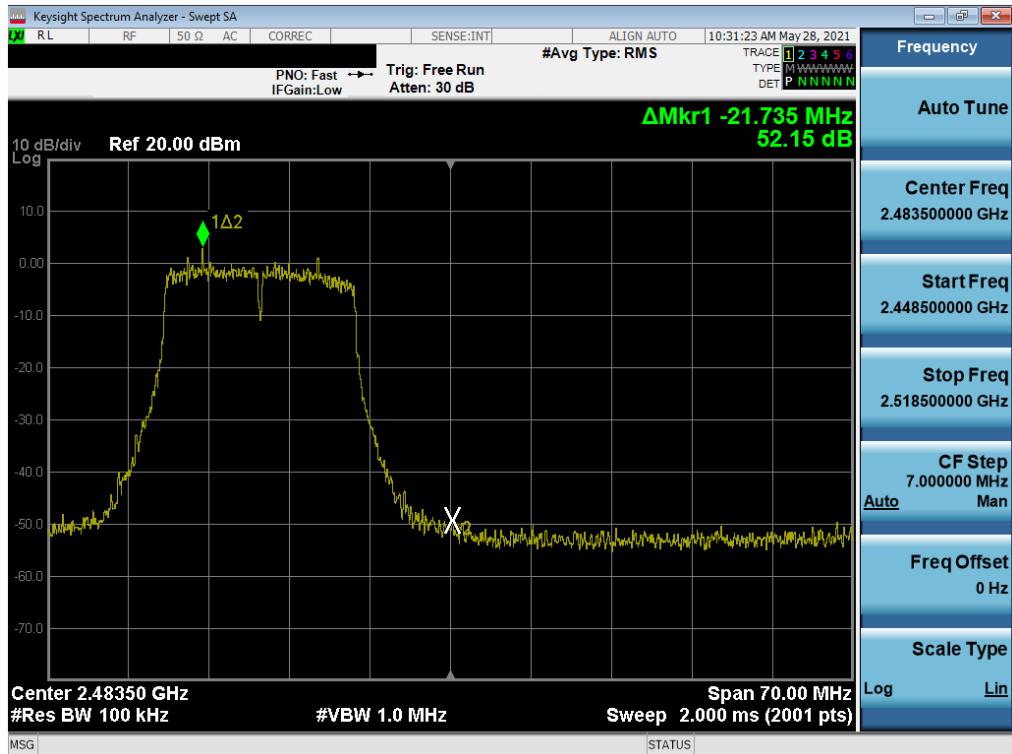


Plot 7-157. Band Edge Plot SISO NORTH (802.11g– Ch. 10)

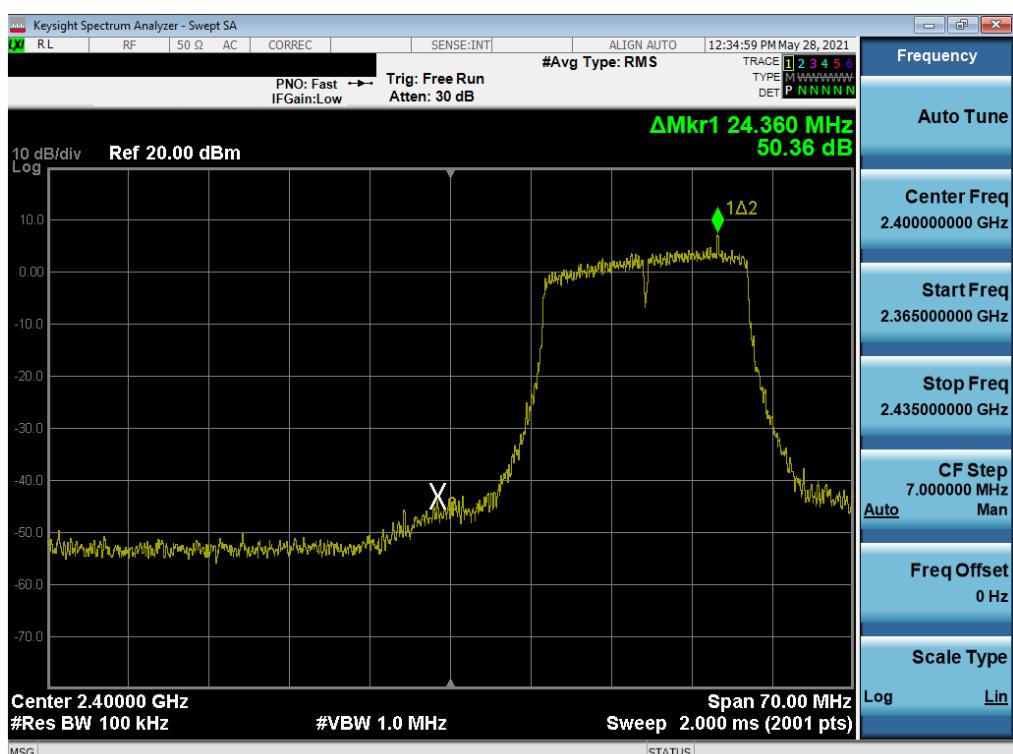
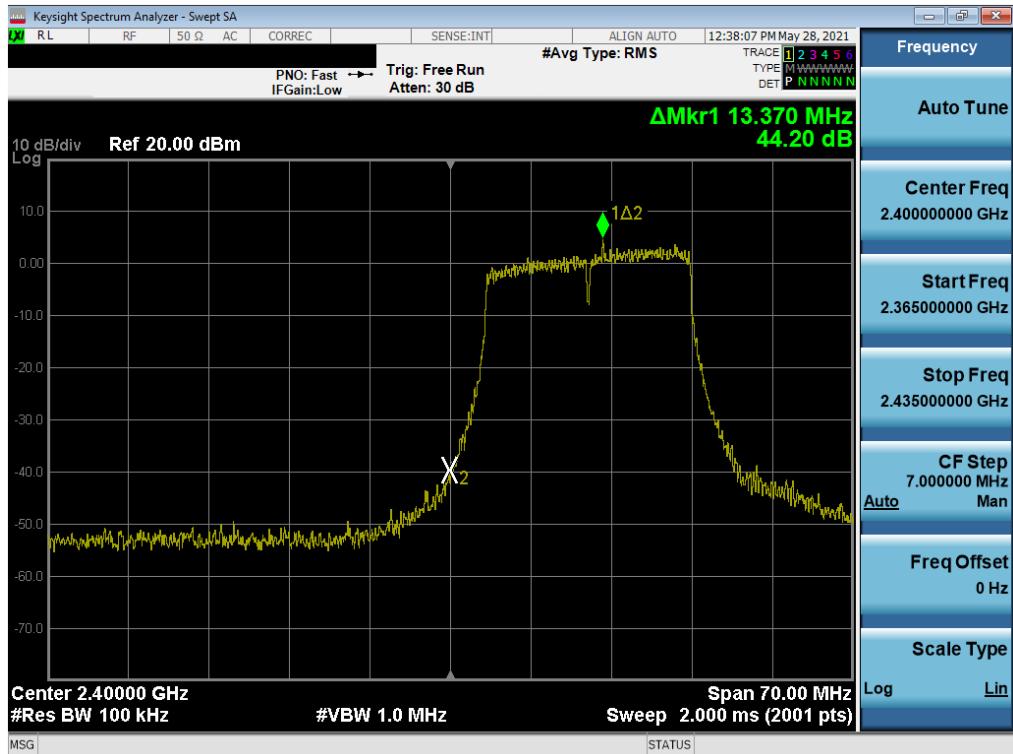


Plot 7-158. Band Edge Plot SISO NORTH (802.11g – Ch. 11)

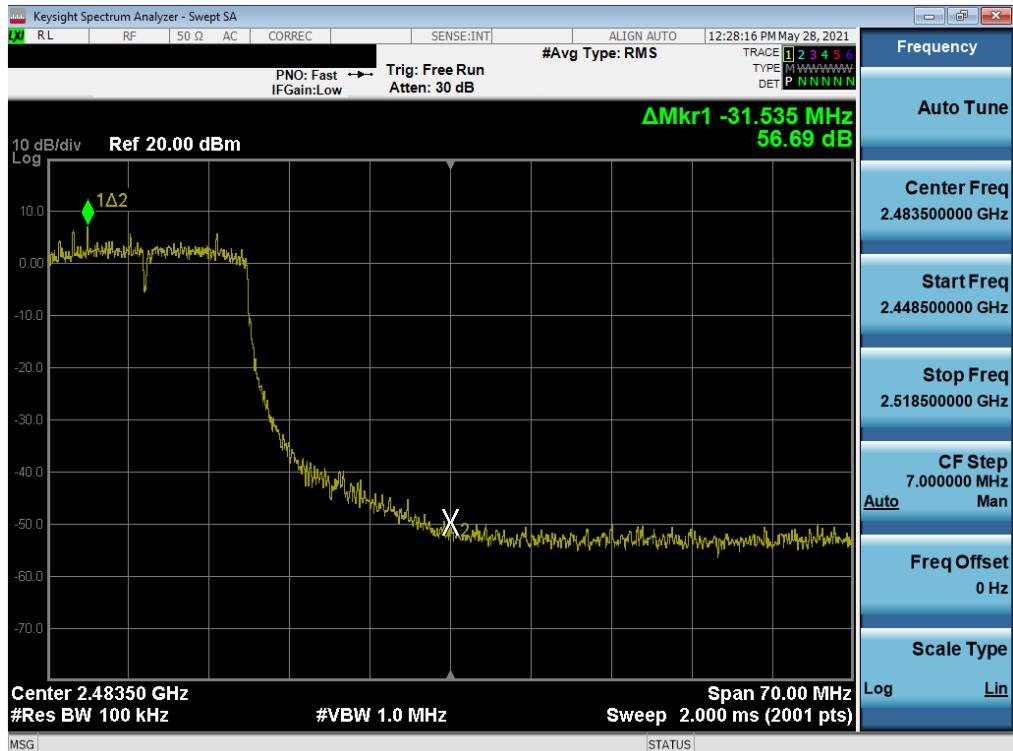
|   |  |                                       |   |
|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 109 of 182   |



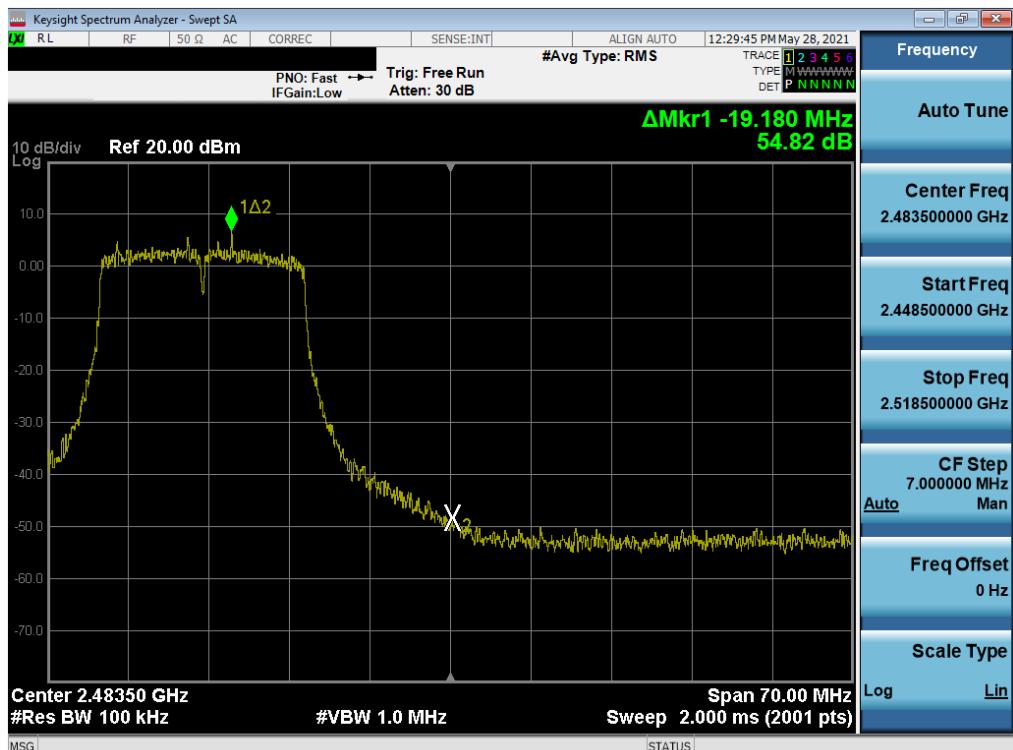
|                     |                                     |
|---------------------|-------------------------------------|
| FCC ID: C3K1995     |                                     |
| IC: 3048A-1995      |                                     |
| Test Report S/N:    | Test Dates: 05/20/2021 - 09/02/2021 |
| 1M2105060048-12.C3K | EUT Type: Portable Handset          |



|                     |                                     |
|---------------------|-------------------------------------|
| FCC ID: C3K1995     |                                     |
| IC: 3048A-1995      |                                     |
| Test Report S/N:    | Test Dates: 05/20/2021 - 09/02/2021 |
| 1M2105060048-12.C3K | EUT Type: Portable Handset          |



Plot 7-163. Band Edge Plot SISO NORTH (802.11n 20MHz BW (2.4GHz) – Ch. 10)



Plot 7-164. Band Edge Plot SISO NORTH (802.11n 20MHz BW (2.4GHz) – Ch. 11)

|   |  |
|---|--|
| FCC ID: C3K1995                         | IC: 3048A-1995                         |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021 |

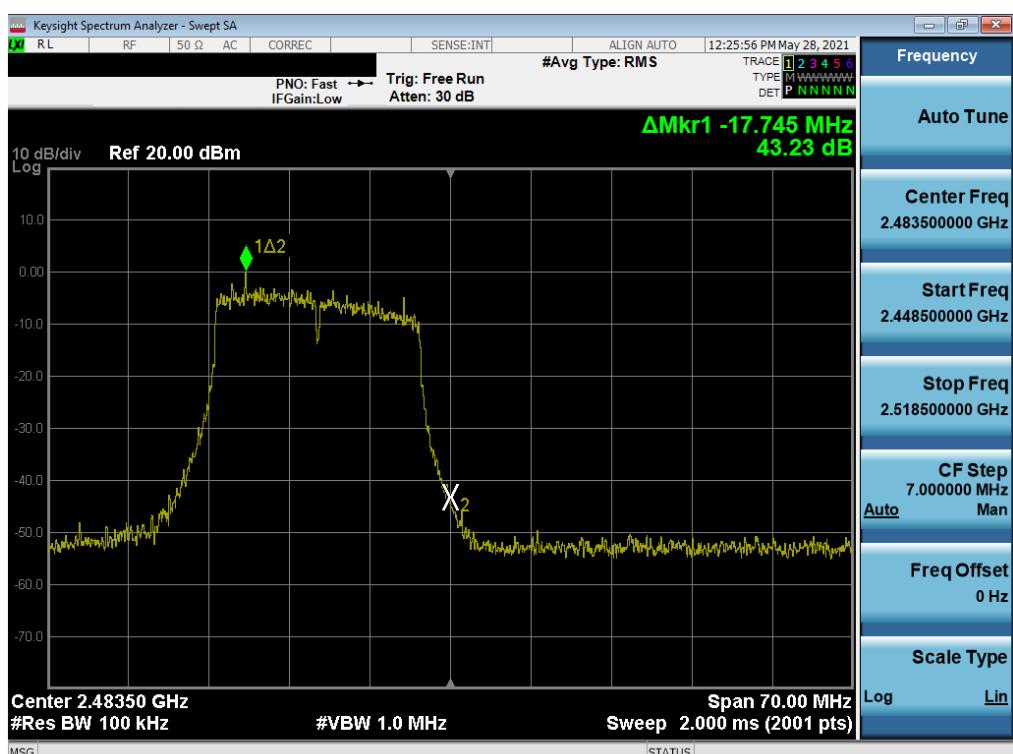
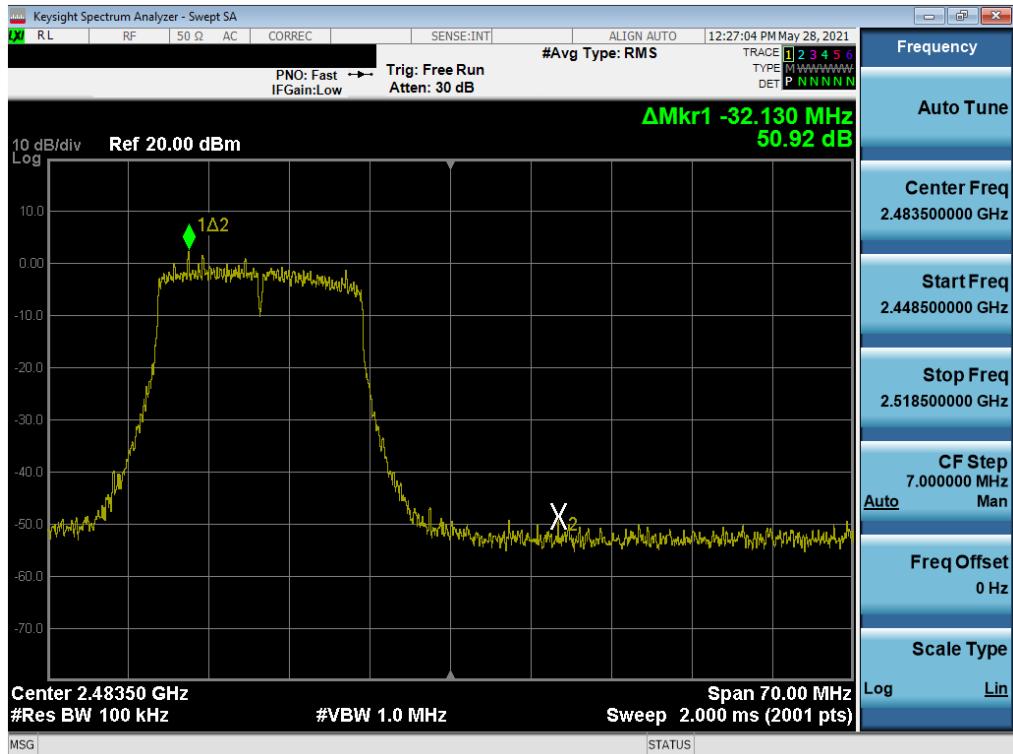


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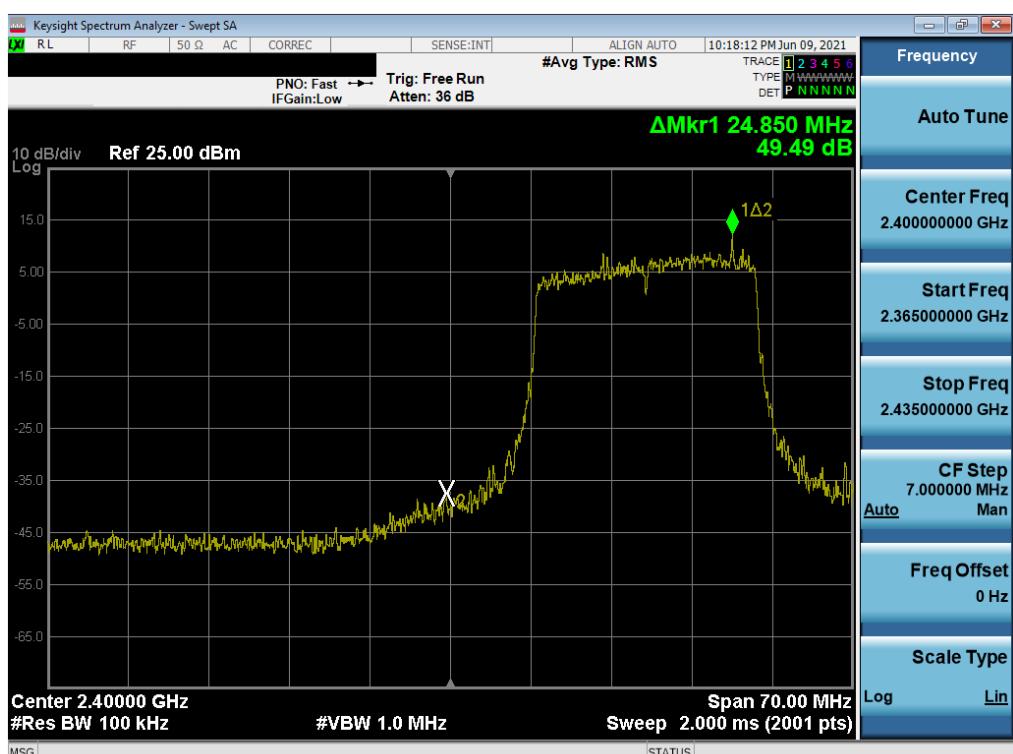
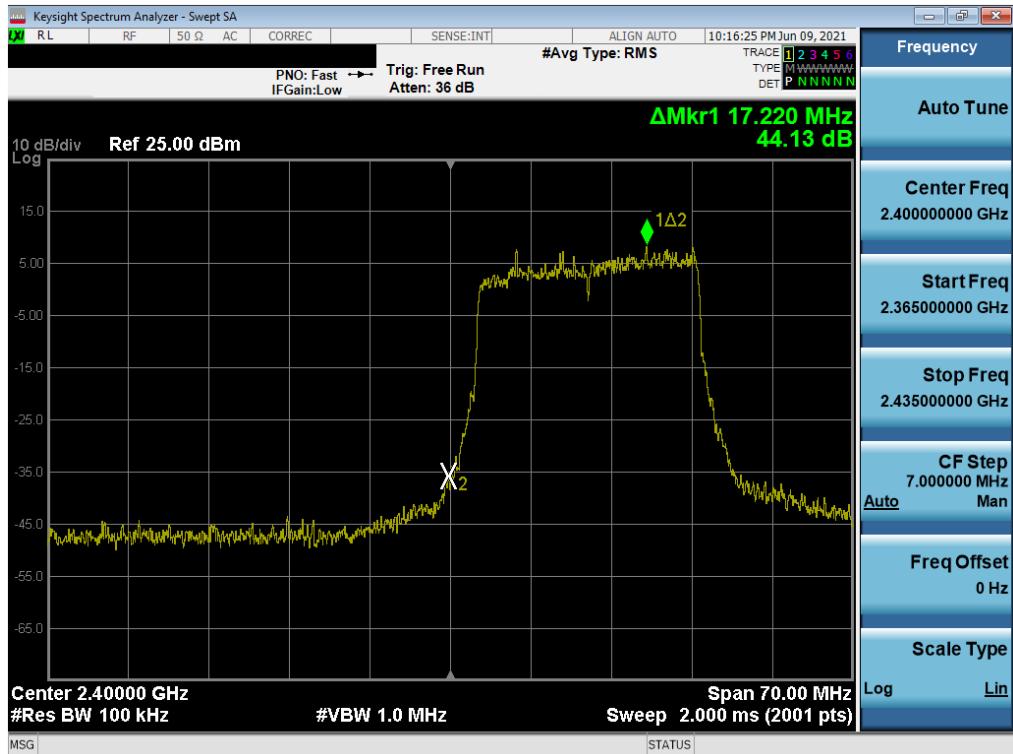


Approved by:  
Technical Manager

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|   |  |                                       |  |
|---|--|---------------------------------------|--|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>PCTEST<br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | <br>Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 113 of 182  |



|   |  |
|---|--|
| FCC ID: C3K1995                         | IC: 3048A-1995                         |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021 |

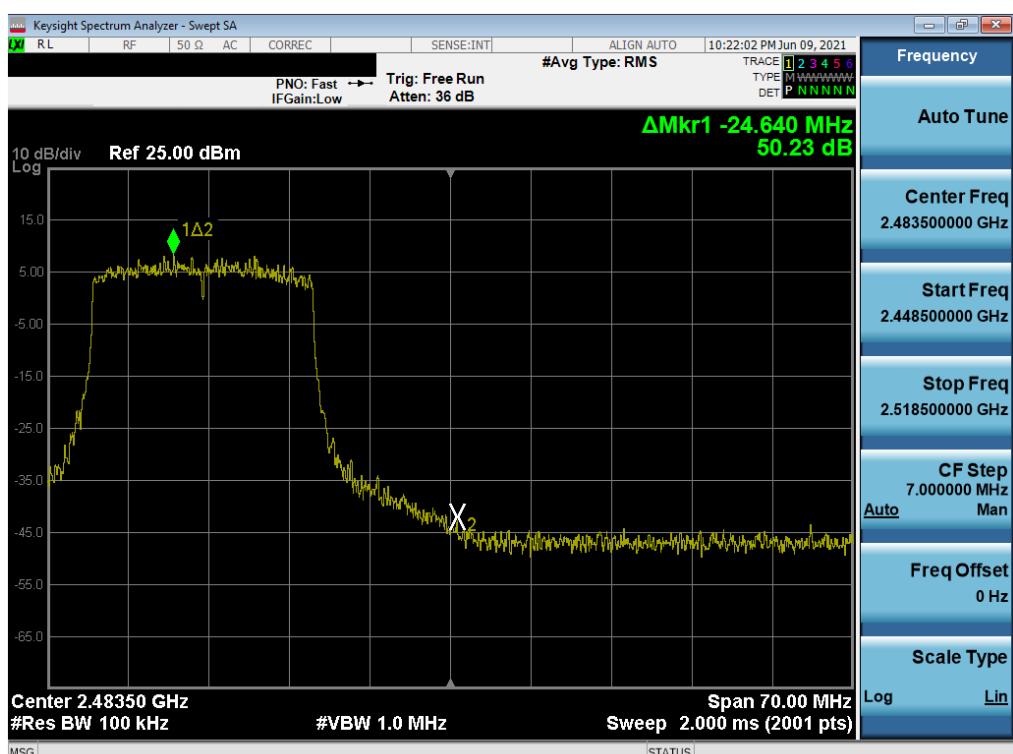
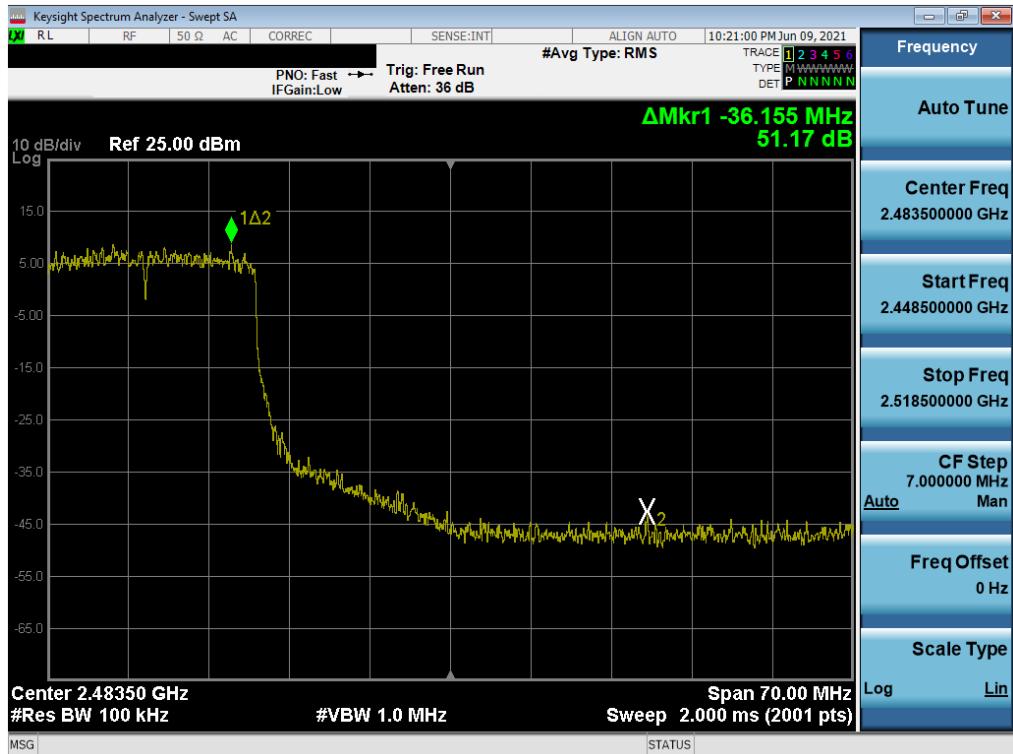


MEASUREMENT REPORT  
(CERTIFICATION)

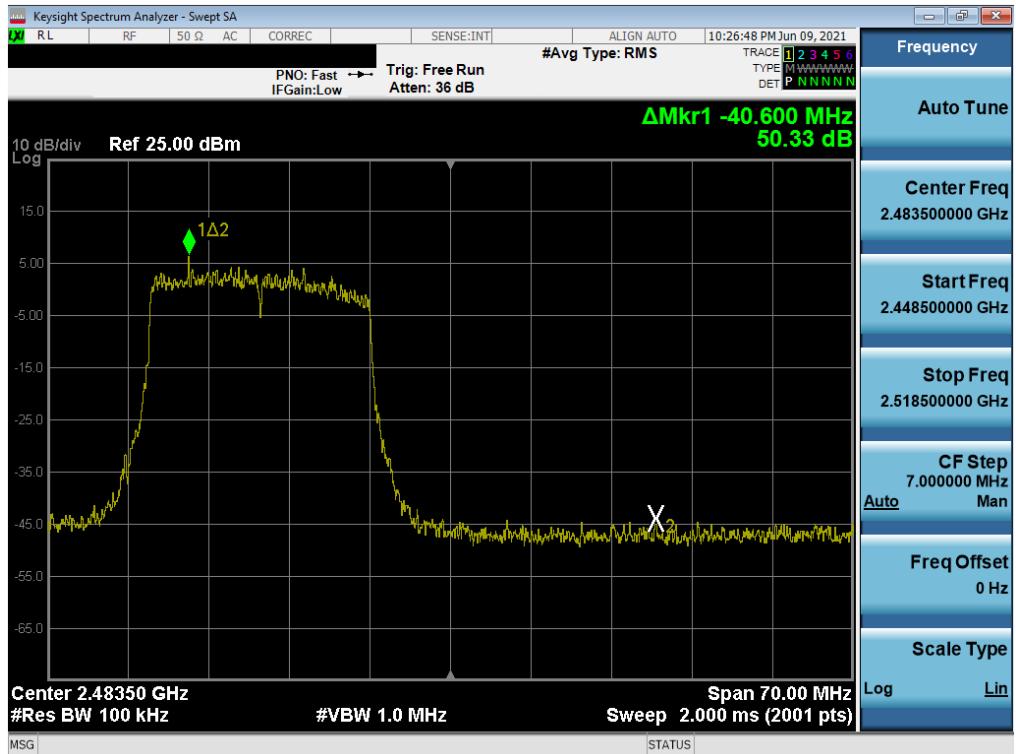


Approved by:  
Technical Manager

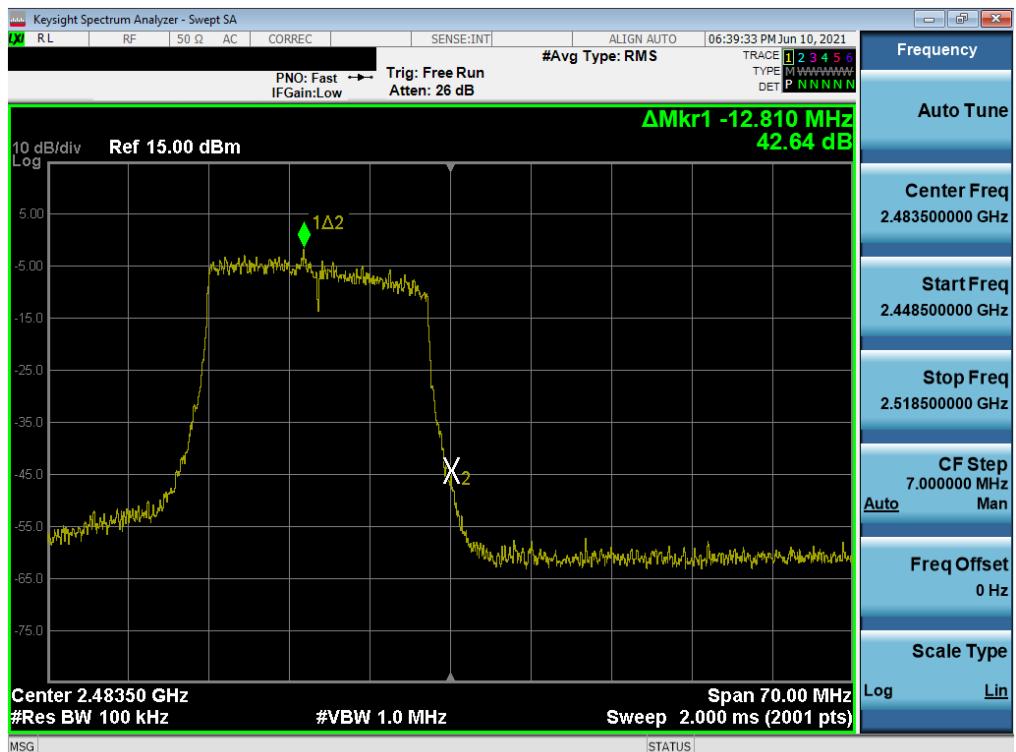
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|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 115 of 182   |

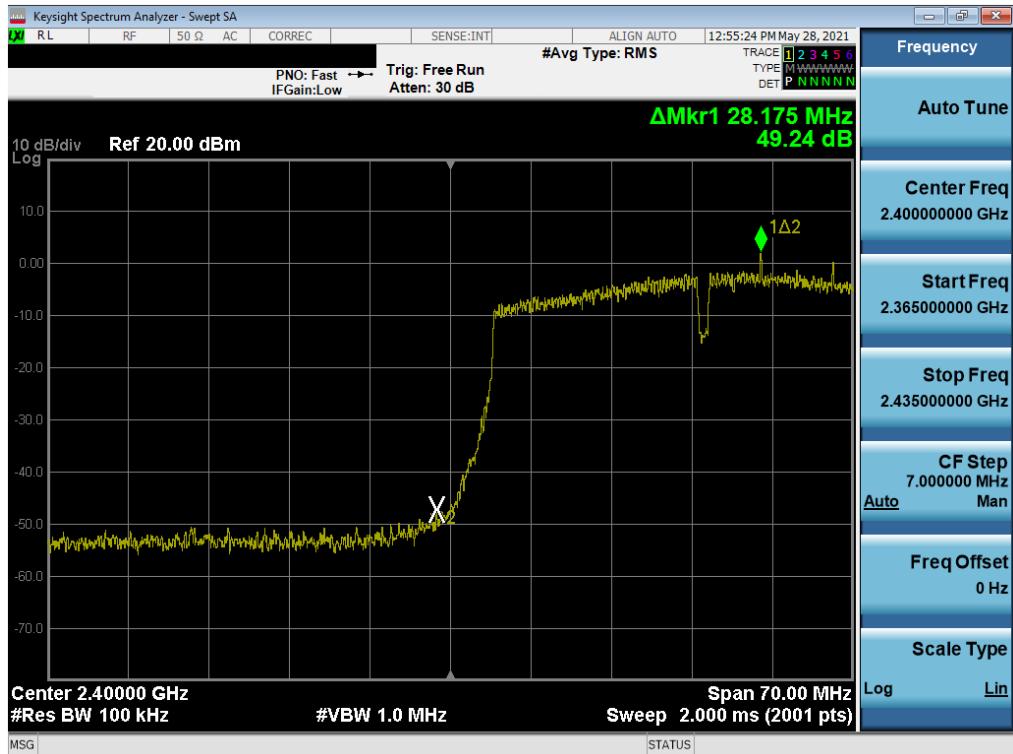


Plot 7-171. Band Edge Plot SISO NORTH (802.11ax 20MHz BW (2.4GHz) – Ch. 12)

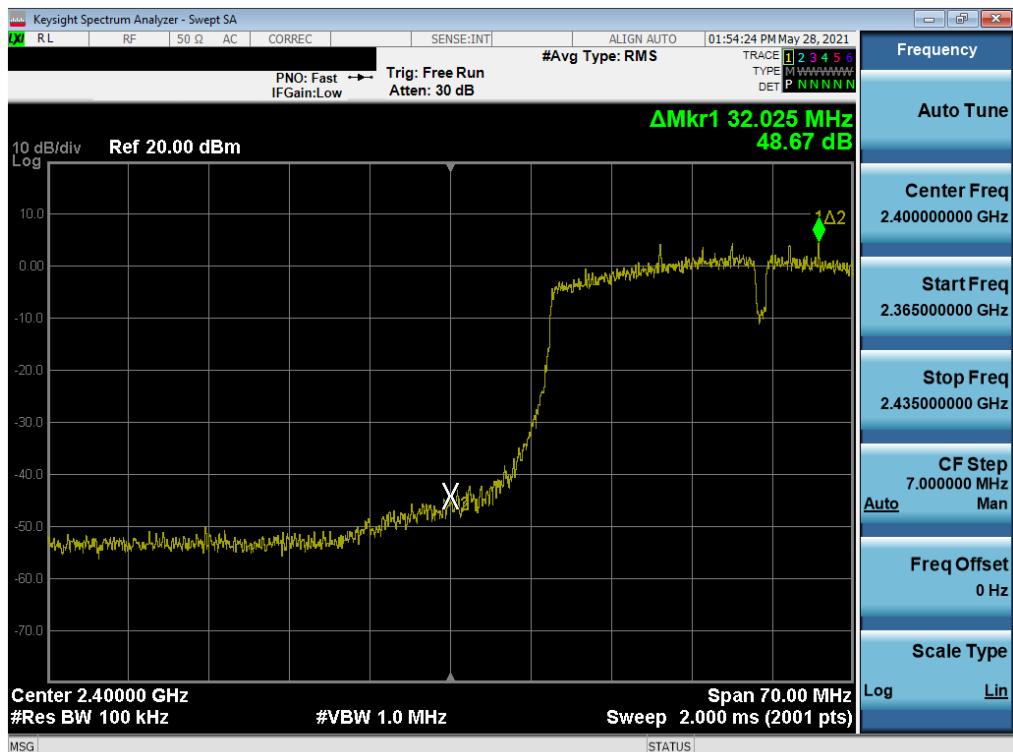


Plot 7-172. Band Edge Plot SISO NORTH (802.11ax 20MHz BW (2.4GHz) – Ch. 13)

|   |  |                                       |  |                                   |
|---|--|---------------------------------------|--|-----------------------------------|
| FCC ID: C3K1995<br>IC: 3048A-1995       |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021 | EUT Type:<br>Portable Handset         |  | Page 116 of 182                   |

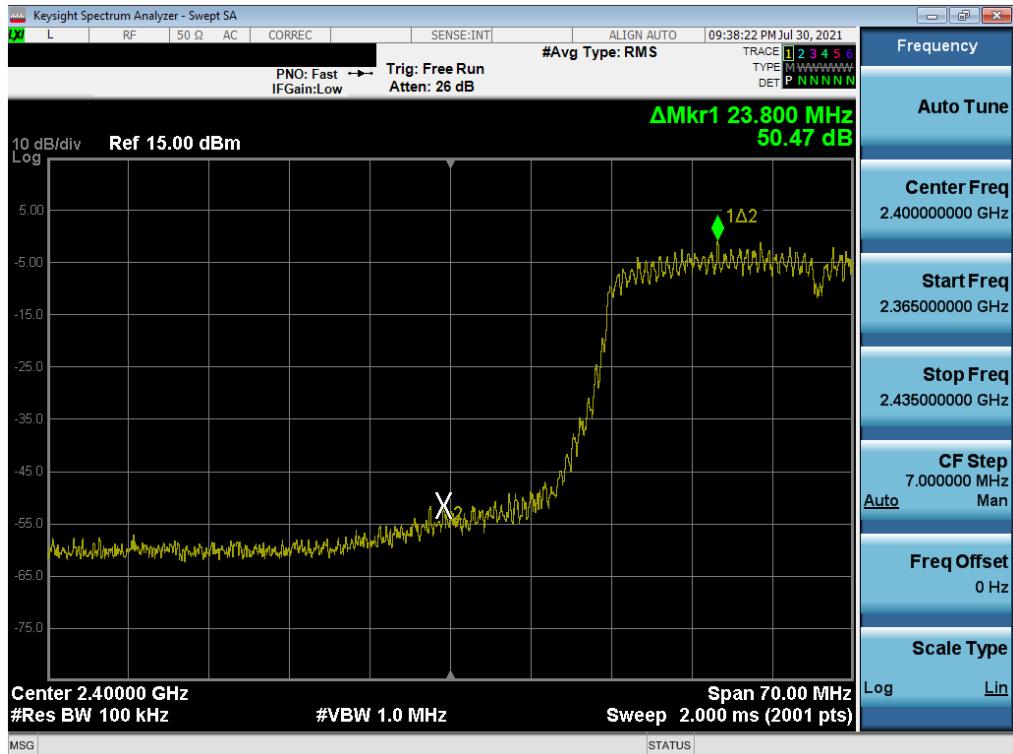


Plot 7-173. Band Edge Plot SISO NORTH (802.11n 40MHz BW (2.4GHz) – Ch. 3)

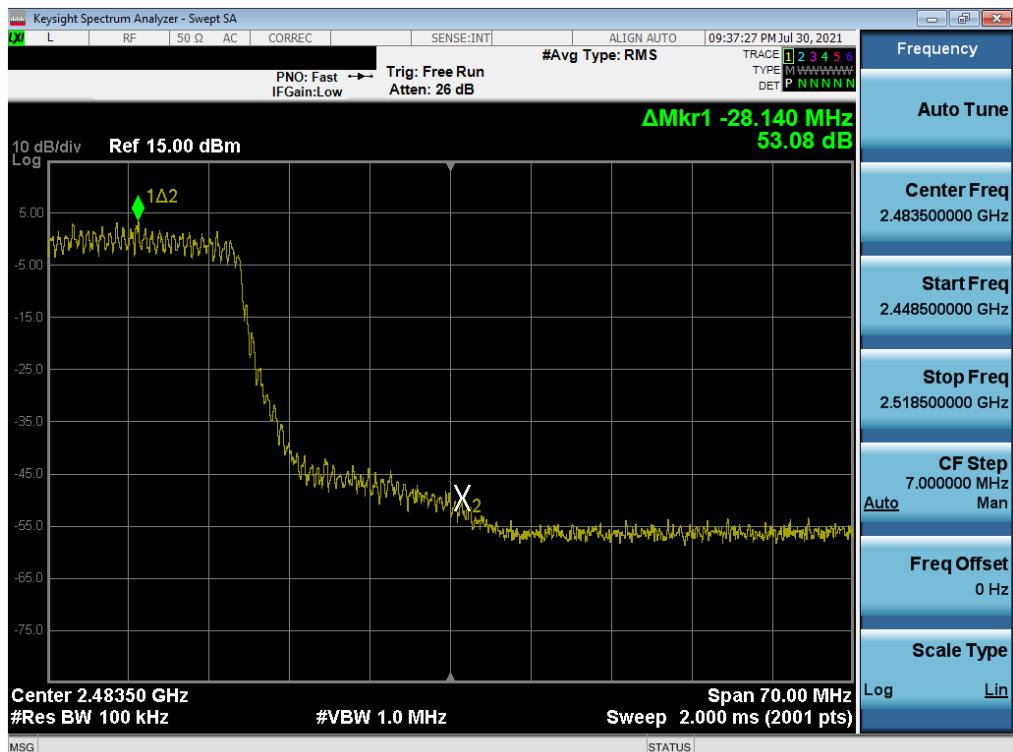


Plot 7-174. Band Edge Plot SISO NORTH (802.11n 40MHz BW (2.4GHz) – Ch. 4)

|   |  |                                       |   |
|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 117 of 182   |

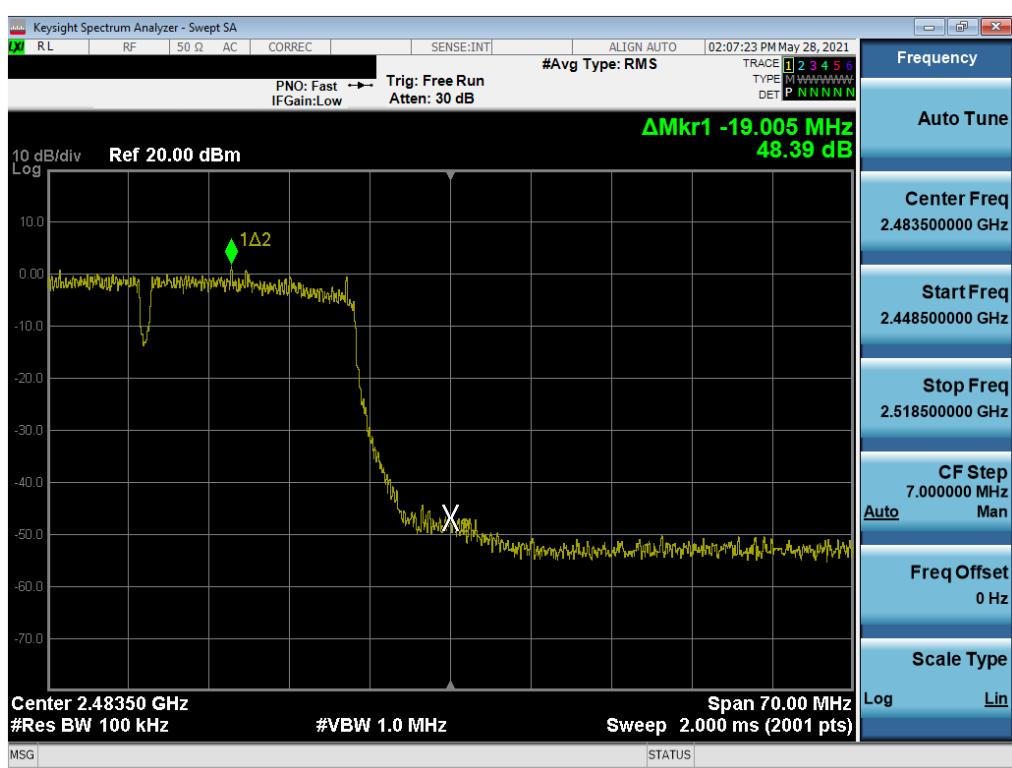
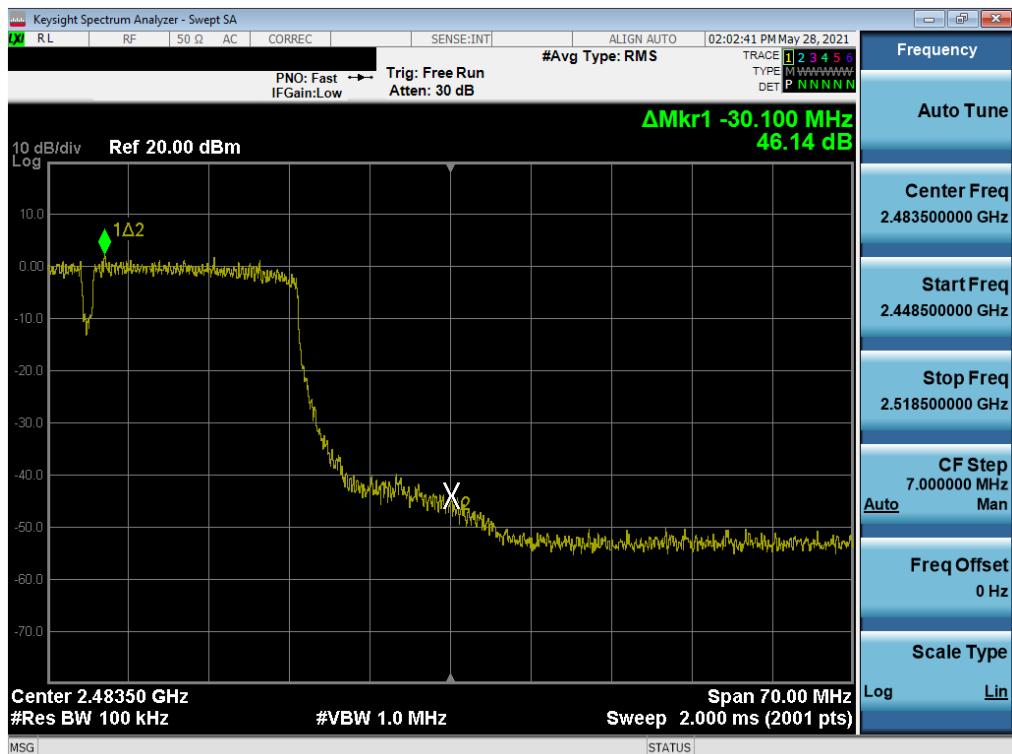


Plot 7-175. Band Edge Plot SISO NORTH (802.11n 40MHz BW (2.4GHz) – Ch. 5)

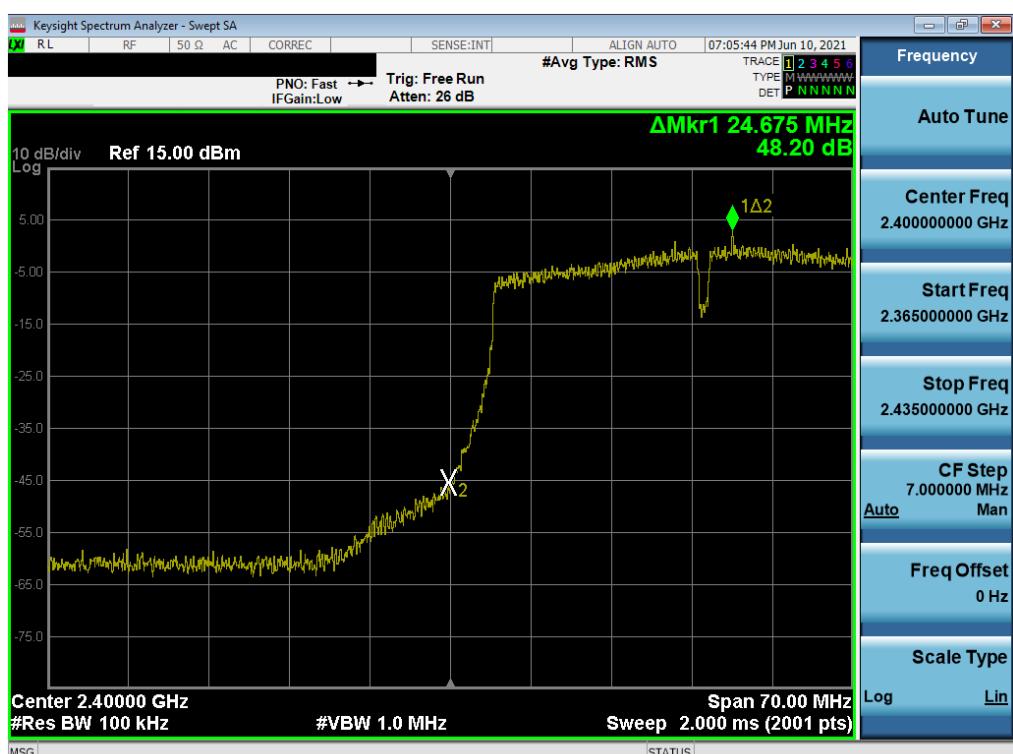
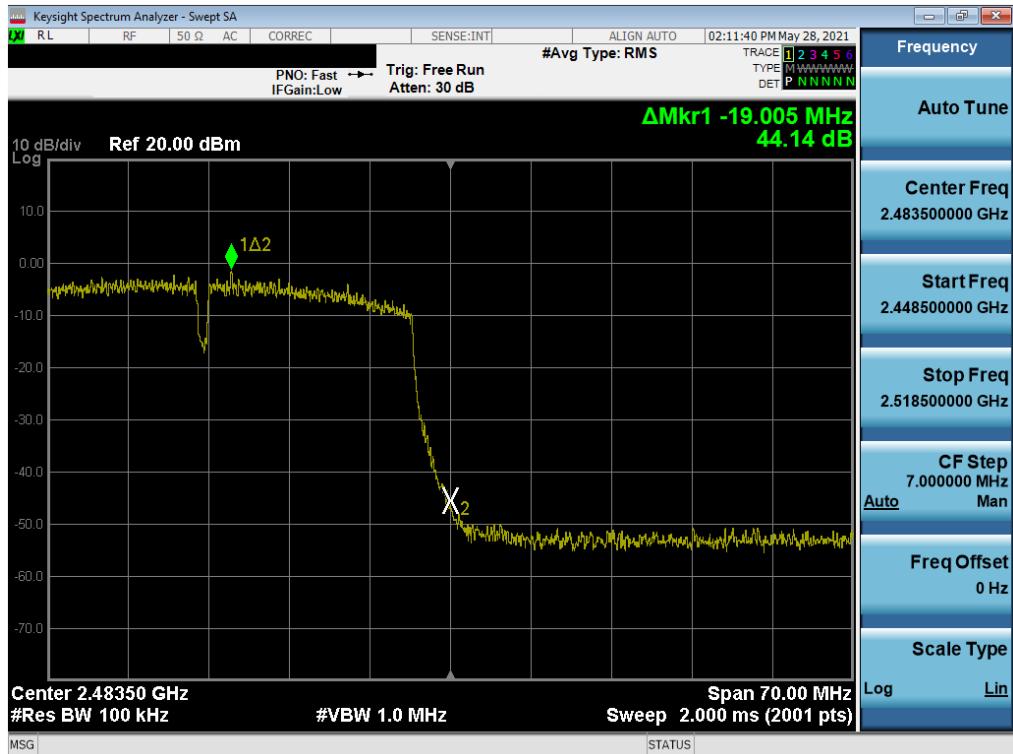


Plot 7-176. Band Edge Plot SISO NORTH (802.11n 40MHz BW (2.4GHz) – Ch. 8)

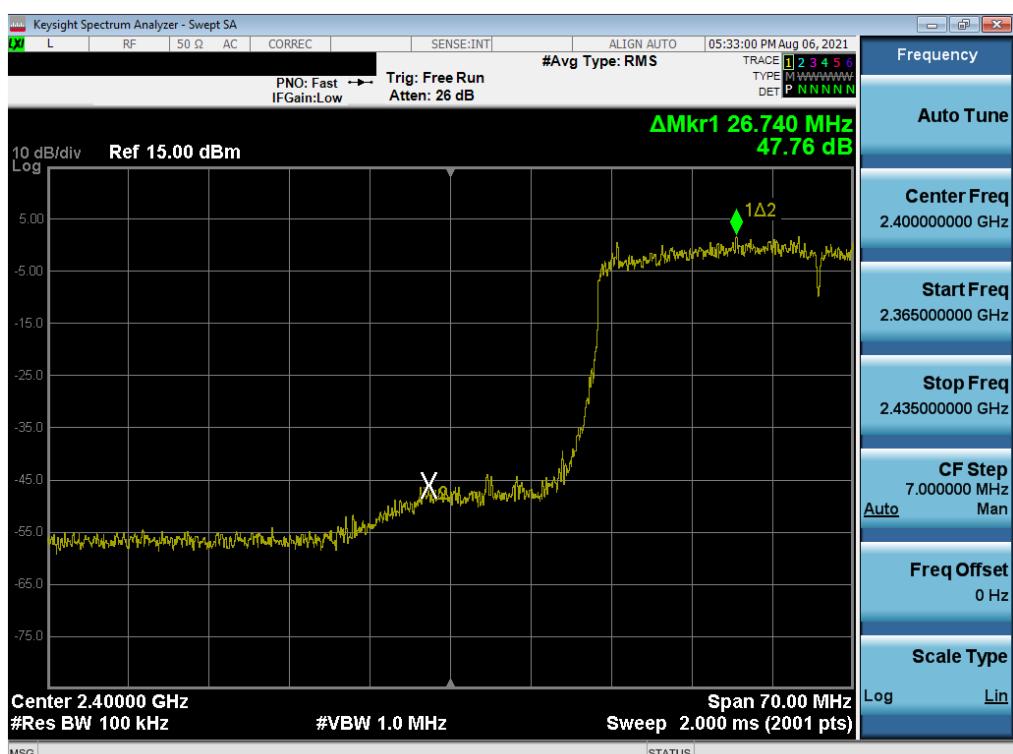
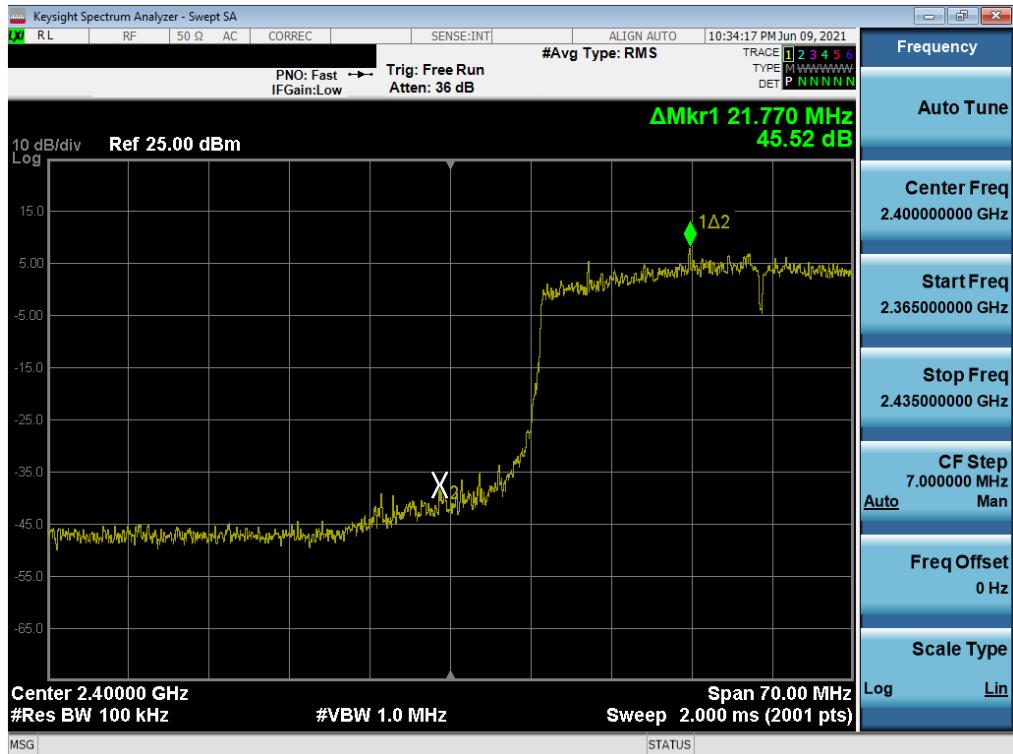
|   |  |                                       |           |                                   |
|---|--|---------------------------------------|-----------|-----------------------------------|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | Microsoft | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         |           | Page 118 of 182                   |



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|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 119 of 182   |

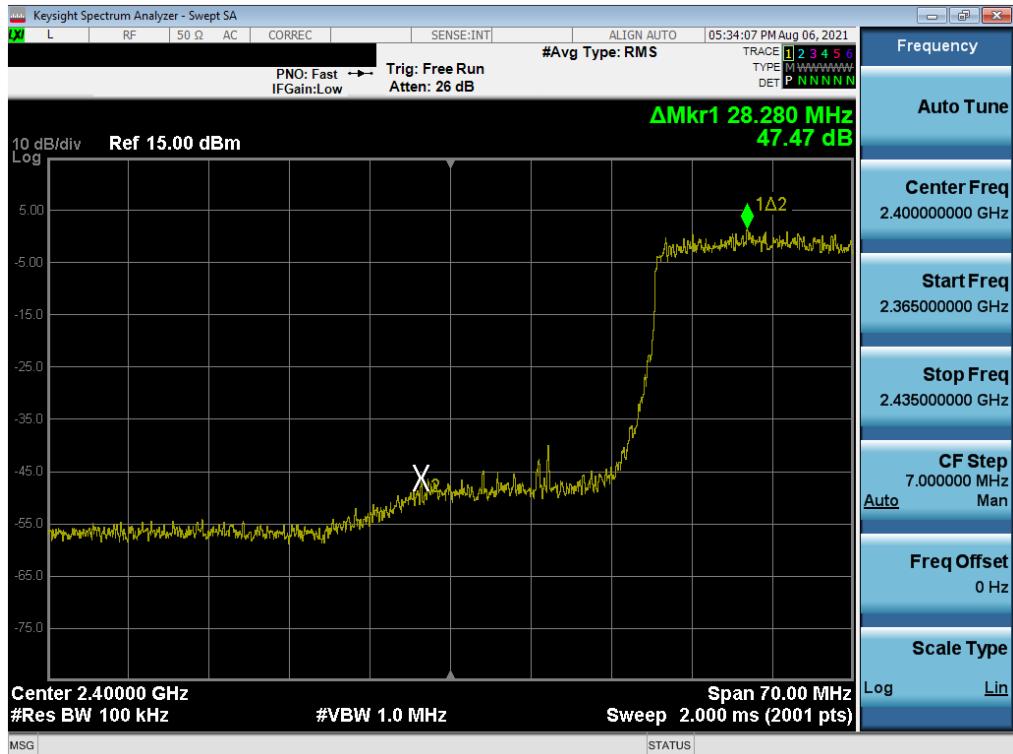


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| FCC ID: C3K1995     |                                     |
| IC: 3048A-1995      |                                     |
| Test Report S/N:    | Test Dates: 05/20/2021 - 09/02/2021 |
| 1M2105060048-12.C3K | EUT Type: Portable Handset          |

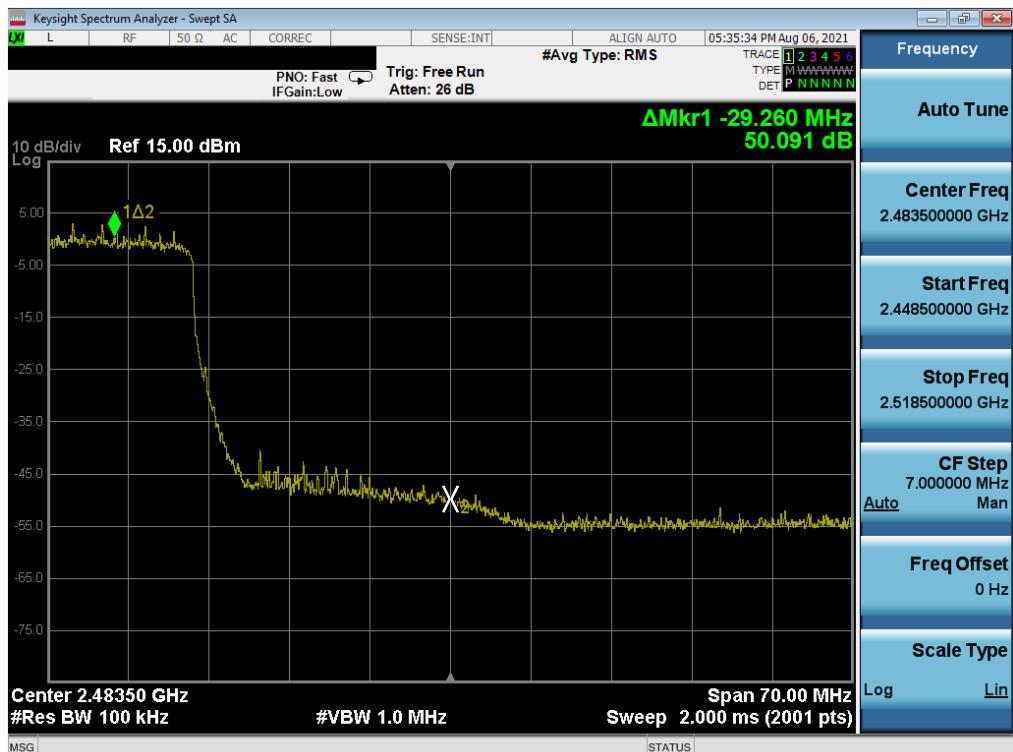


Plot 7-182. Band Edge Plot SISO NORTH (802.11ax 40MHz BW (2.4GHz) – Ch. 5)

|   |  |                                       |   |
|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 121 of 182   |

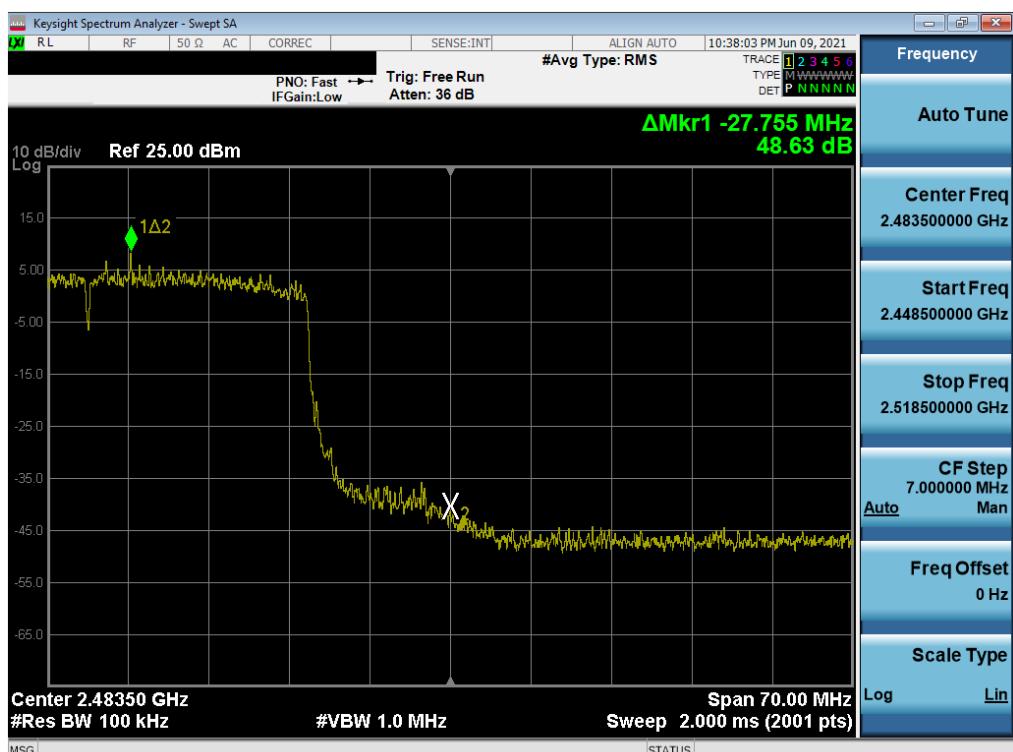


Plot 7-183. Band Edge Plot SISO NORTH (802.11ax 40MHz BW (2.4GHz) – Ch. 6)

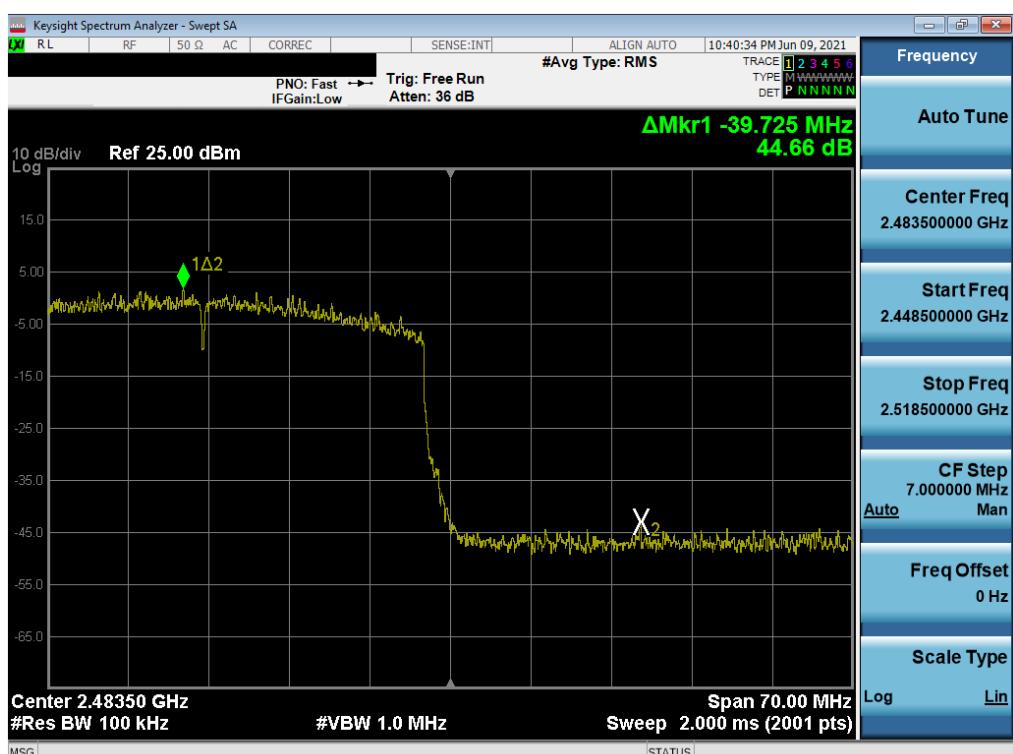
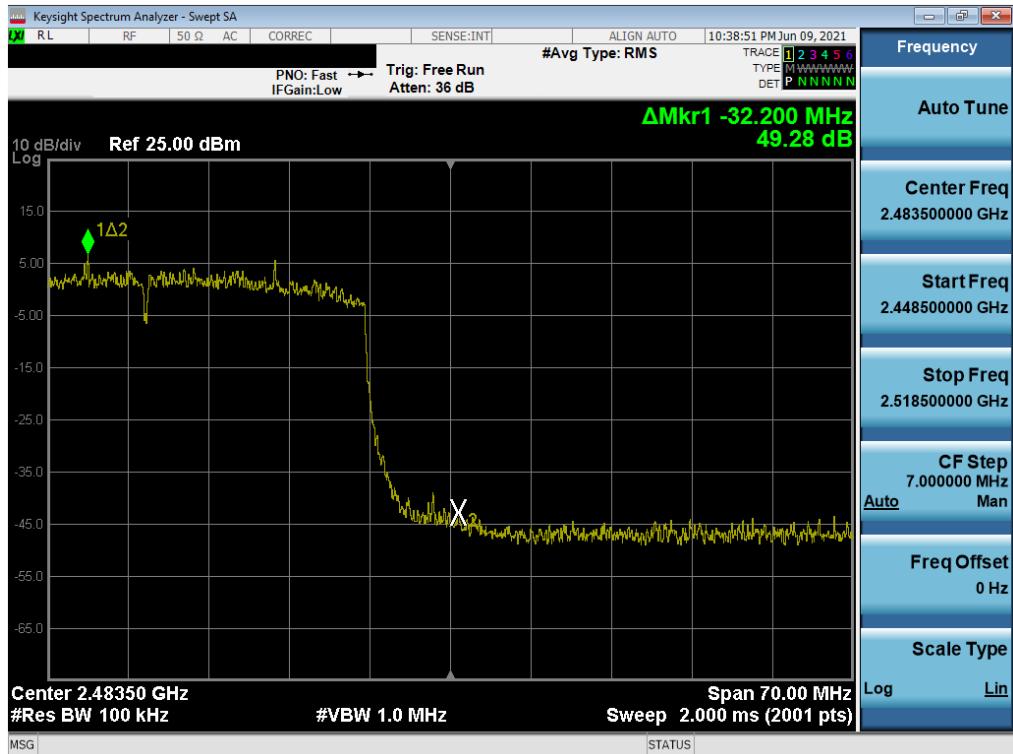


Plot 7-184. Band Edge Plot SISO NORTH (802.11ax 40MHz BW (2.4GHz) – Ch. 7)

|   |  |                                       |   |
|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 122 of 182   |



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| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 123 of 182   |



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| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         |   | Page 124 of 182                   |

## 7.6 Conducted Spurious Emissions

§15.247(d); RSS-247 [5.5]

### Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots, the EUT was investigated in all available data rates for “b”, “g”, “n”, “ax” modes. The worst case spurious emissions for the 2.4GHz band were found while transmitting in “b” mode at 1 Mbps and are shown in the plots below.

***The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 11.1 of ANSI C63.10-2013 and KDB 558074 D01 v05r02.***

### Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3  
 KDB 558074 D01 v05r02 – Section 8.5  
 ANSI C63.10-2013 – Section 14.3.3  
 KDB 662911 D01 v02r01 – Section E(3)b)

### Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

### Test Setup

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



**Figure 7-5. Test Instrument & Measurement Setup**

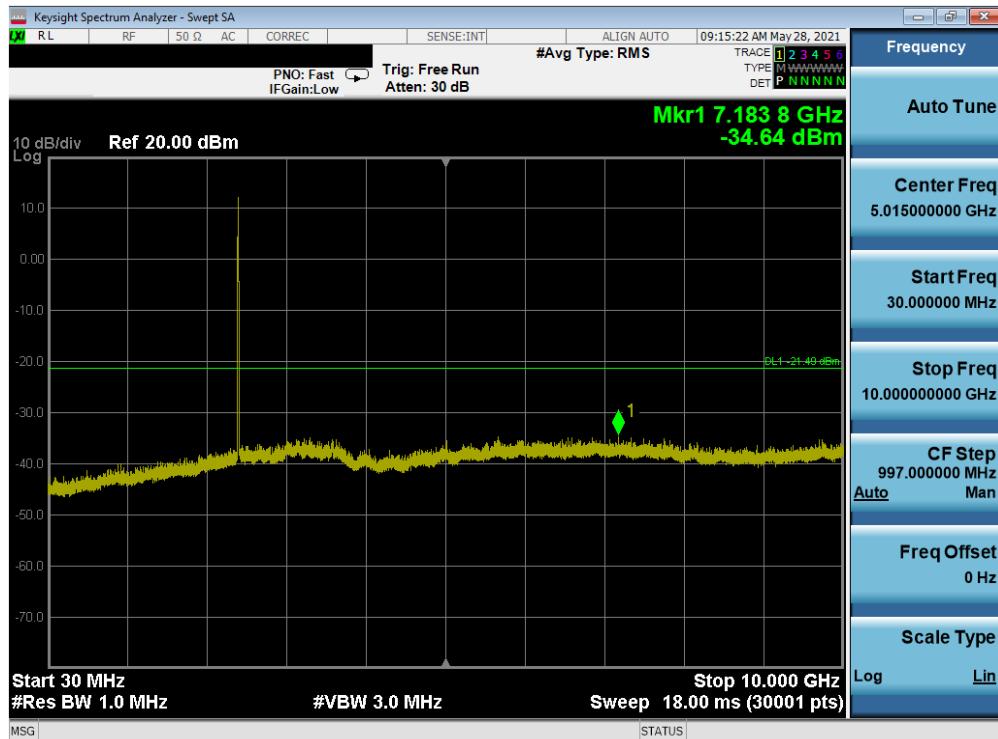
|   |   |                                       |   |                                   |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: C3K1995<br>IC: 3048A-1995       |  <b>PCTEST®</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Microsoft | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021  | EUT Type:<br>Portable Handset         |   | Page 125 of 182                   |

## Test Notes

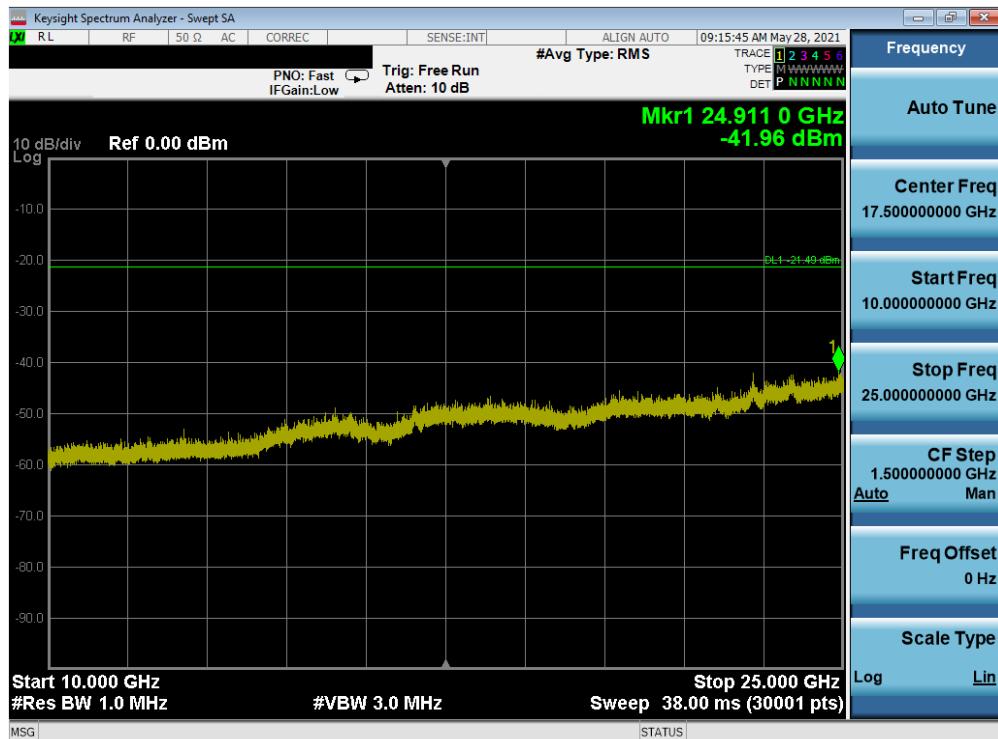
1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 30dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 30dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
4. The conducted spurious emissions were measured to relative limits. Therefore, in accordance with ANSI C63.10-2013 and KDB 662911 D01 v02r01 Section E)3)b), it was unnecessary to show compliance through the summation of test results of the individual outputs.

|   |  |                                       |   |                                   |
|---|--|---------------------------------------|---|-----------------------------------|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>PCTEST<br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         |   | Page 126 of 182                   |

## SISO SOUTH Conducted Spurious Emission

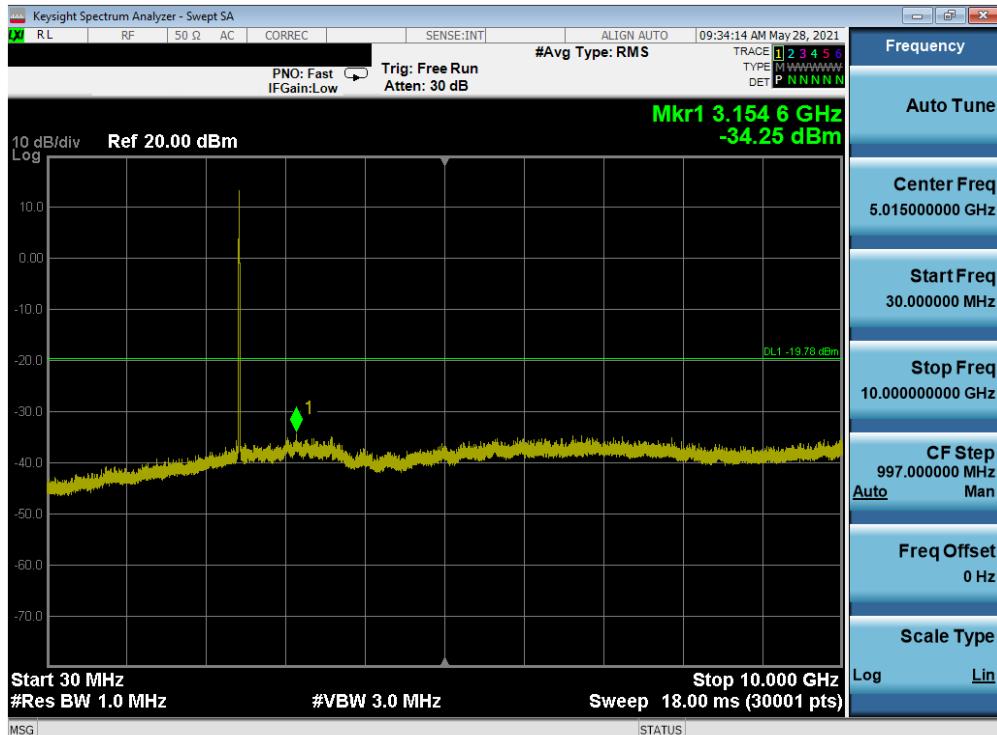


Plot 7-189. Conducted Spurious Plot SISO SOUTH (802.11b – Ch. 1)

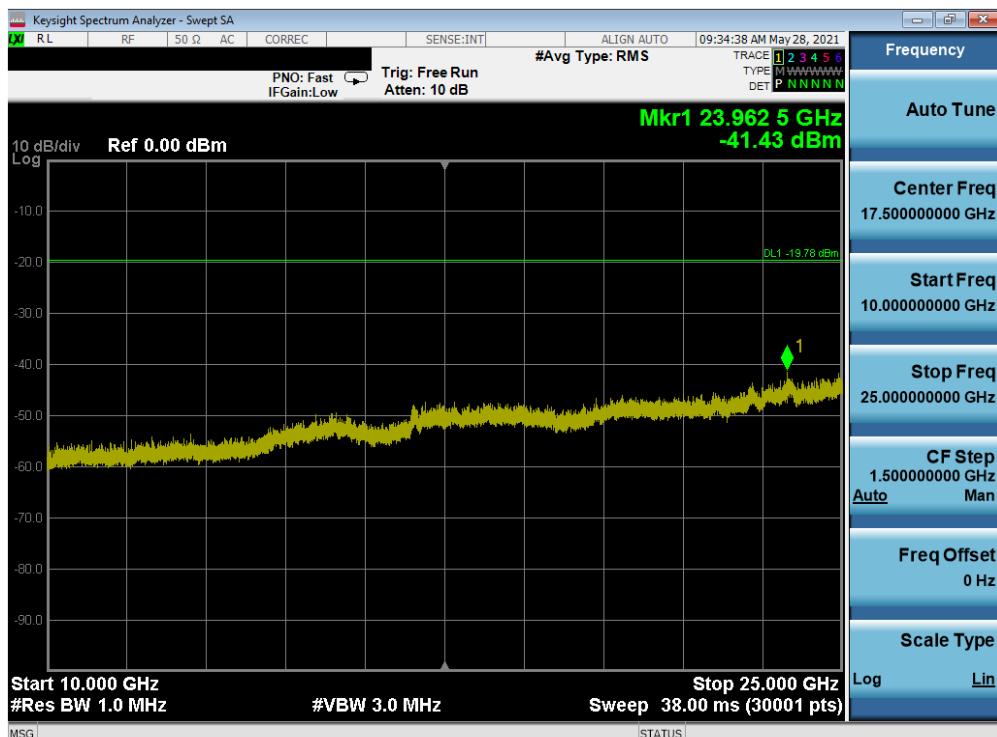


Plot 7-190. Conducted Spurious Plot SISO SOUTH (802.11b – Ch. 1)

|   |   |                                       |  |
|---|---|---------------------------------------|--|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>PCTEST®<br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | <br>Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021  | EUT Type:<br>Portable Handset         | Page 127 of 182  |

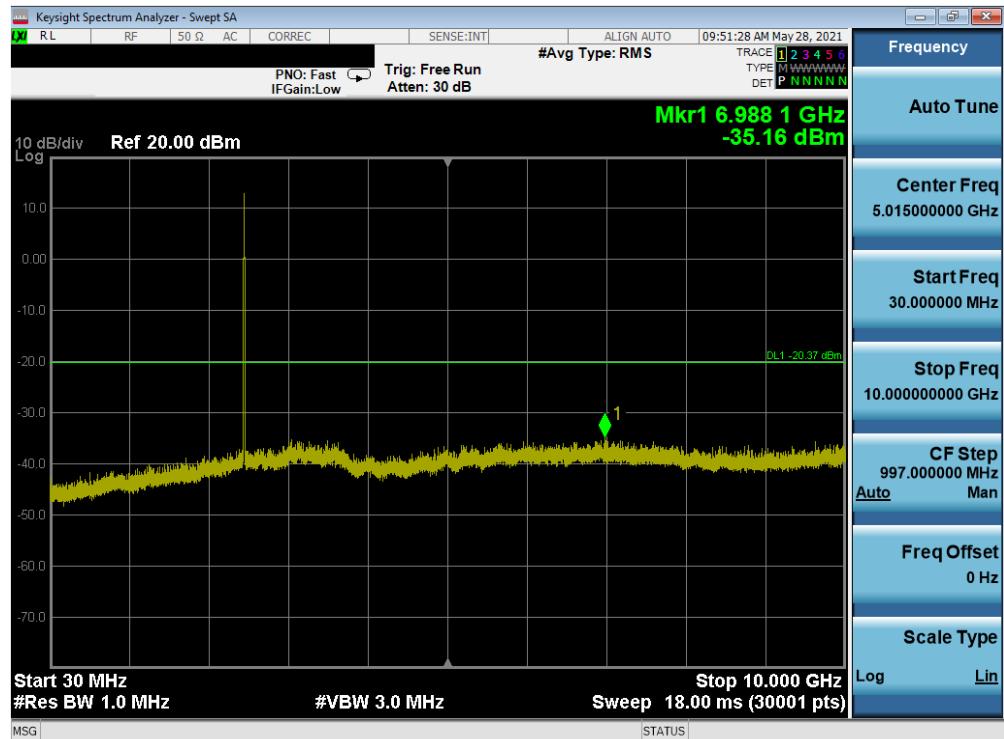


Plot 7-191. Conducted Spurious Plot SISO SOUTH (802.11b – Ch. 6)

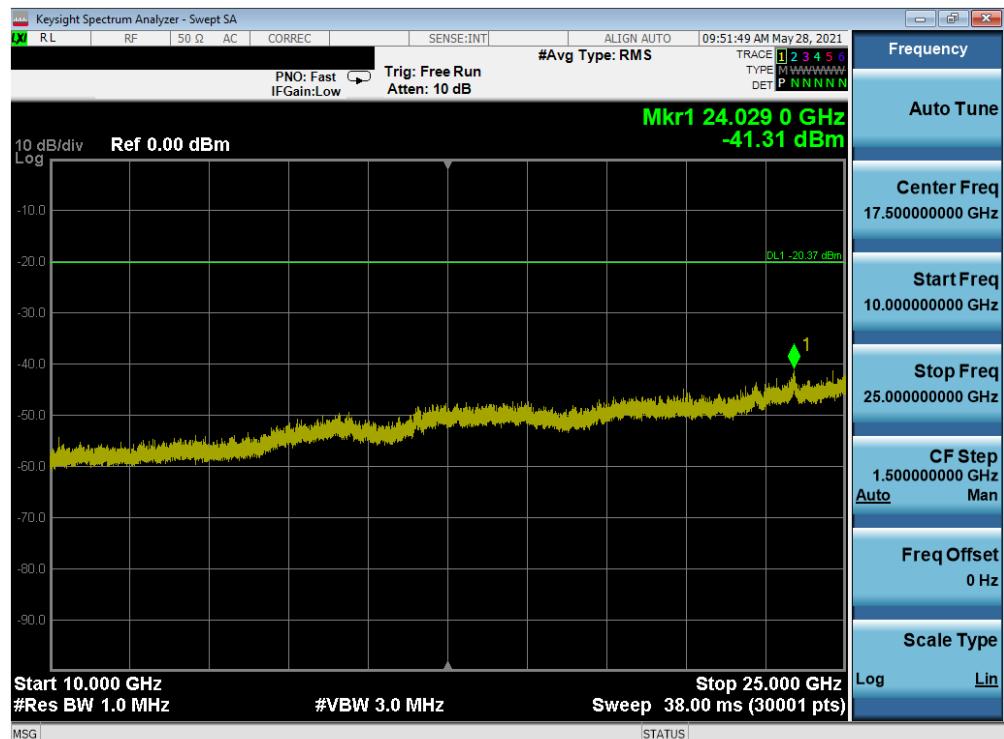


Plot 7-192. Conducted Spurious Plot SISO SOUTH (802.11b – Ch. 6)

|   |  |                                       |           |                                   |
|---|--|---------------------------------------|-----------|-----------------------------------|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | Microsoft | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         |           | Page 128 of 182                   |



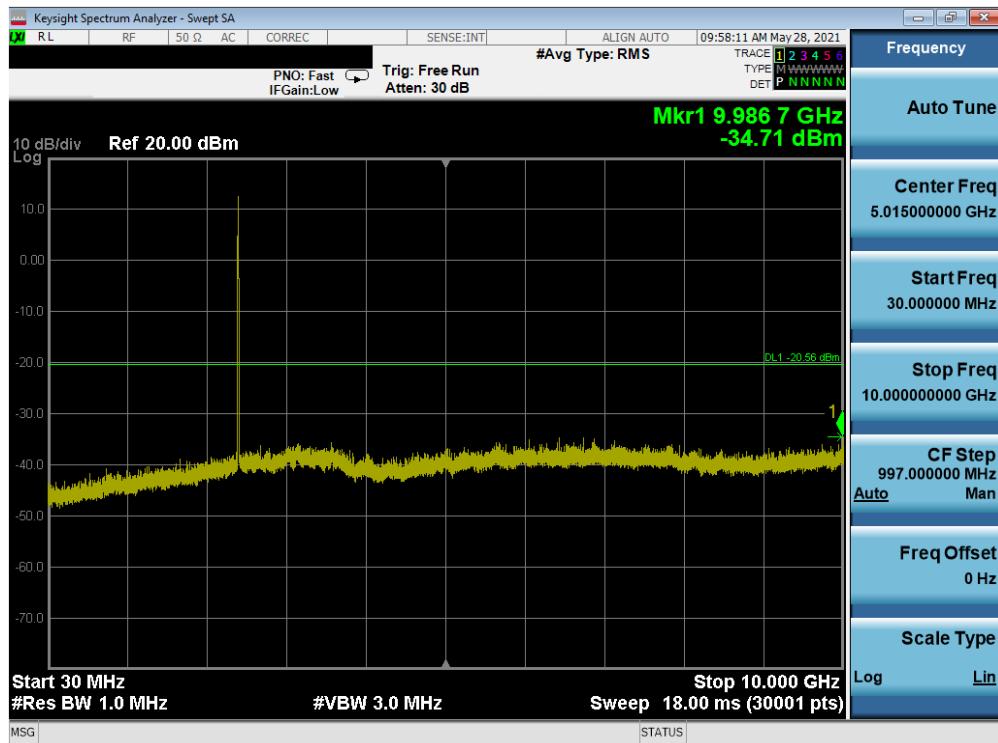
Plot 7-193. Conducted Spurious Plot SISO SOUTH (802.11b – Ch. 11)



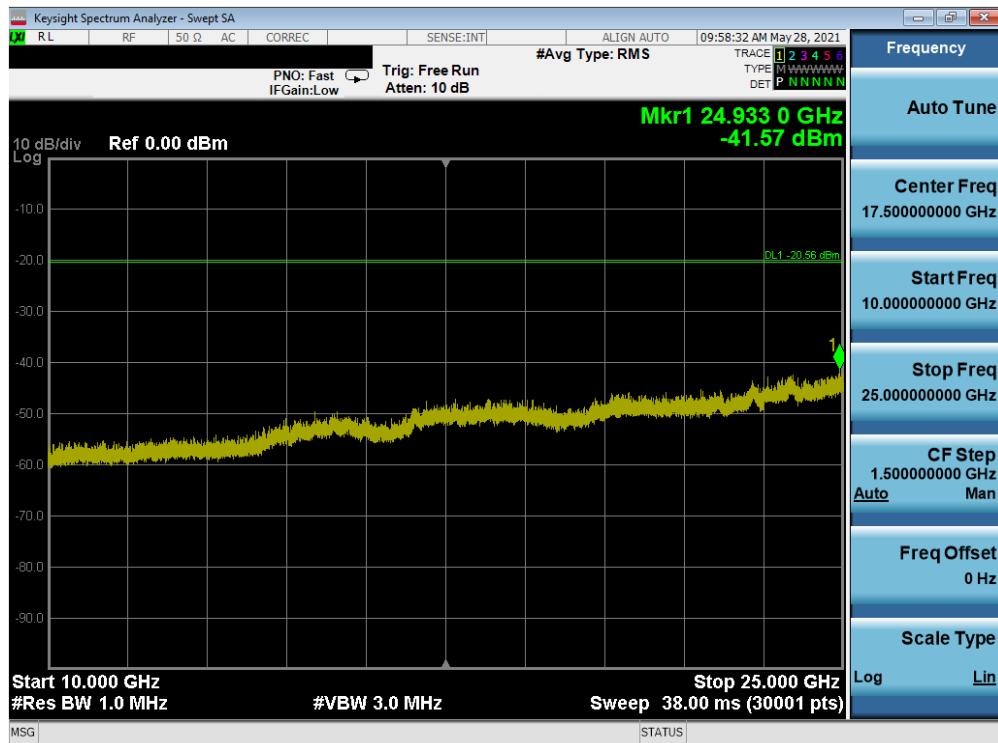
Plot 7-194. Conducted Spurious Plot SISO SOUTH (802.11b – Ch. 11)

|   |  |                                       |   |
|---|--|---------------------------------------|---|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 129 of 182   |

## SISO NORTH Conducted Spurious Emissions

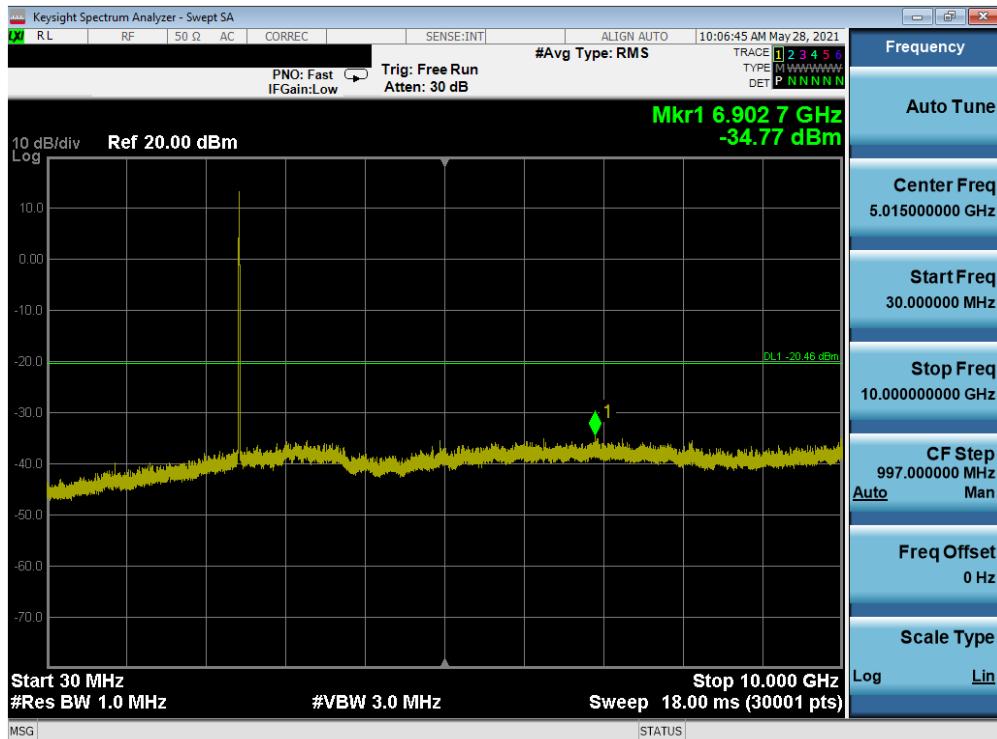


Plot 7-195. Conducted Spurious Plot SISO NORTH (802.11b – Ch. 1)

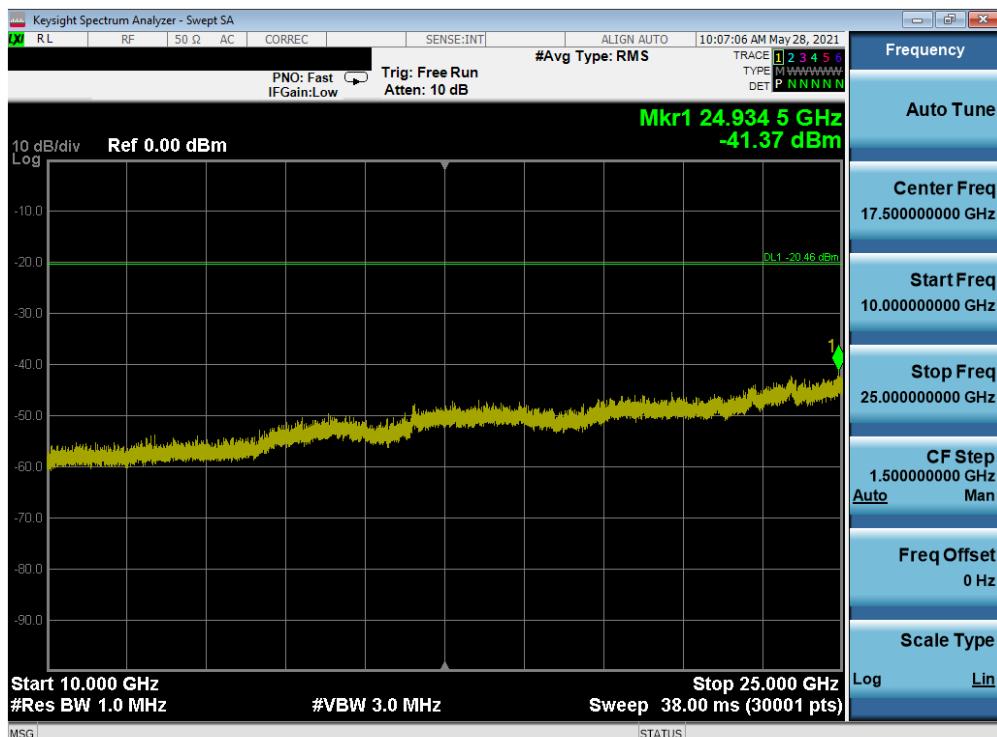


Plot 7-196. Conducted Spurious Plot SISO NORTH (802.11b – Ch. 1)

|   |   |                                       |  |
|---|---|---------------------------------------|--|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>PCTEST®<br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | <br>Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021  | EUT Type:<br>Portable Handset         | Page 130 of 182  |

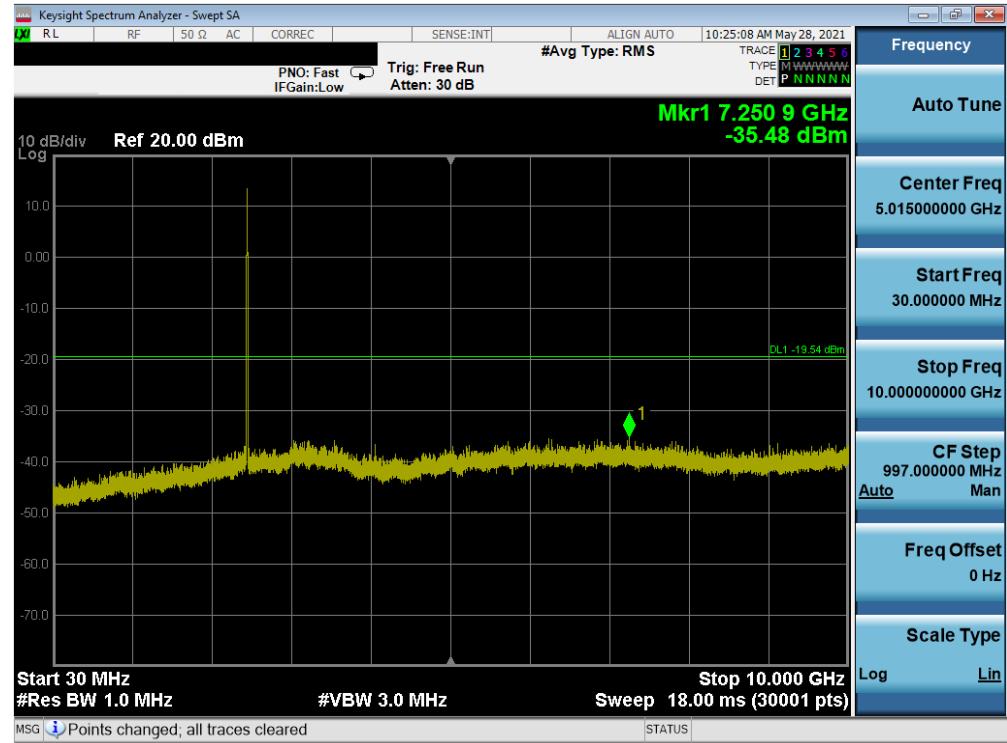


Plot 7-197. Conducted Spurious Plot SISO NORTH (802.11b – Ch. 6)

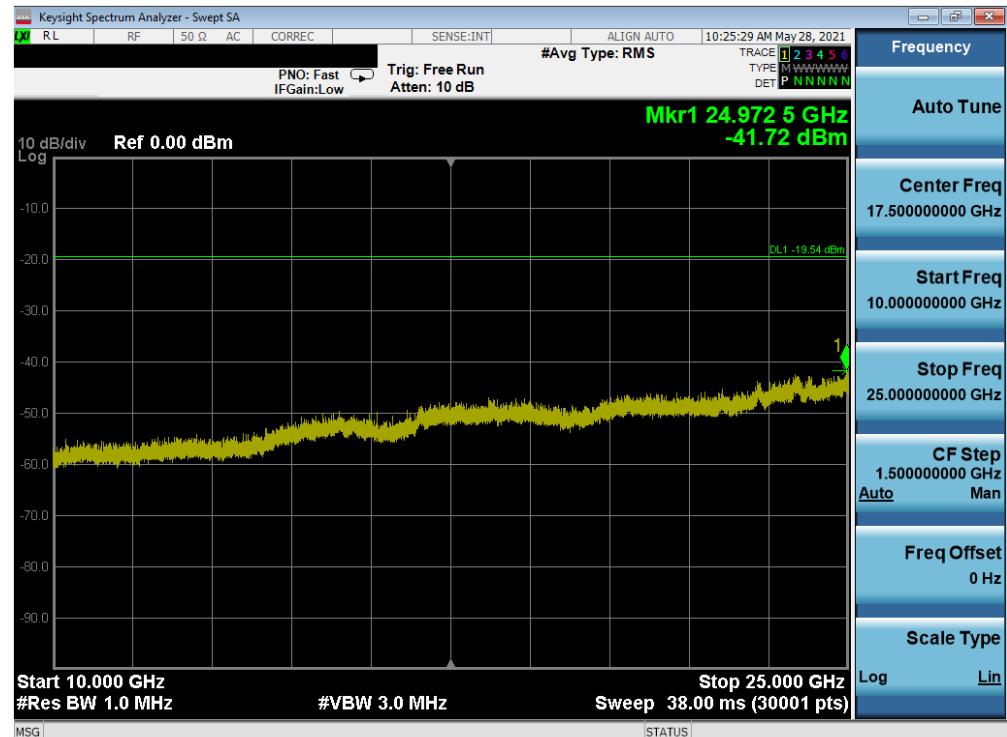


Plot 7-198. Conducted Spurious Plot SISO NORTH (802.11b – Ch. 6)

|   |   |                                       |   |                                   |
|---|---|---------------------------------------|---|-----------------------------------|
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| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021  | EUT Type:<br>Portable Handset         |   | Page 131 of 182                   |



Plot 7-199. Conducted Spurious Plot SISO NORTH (802.11b – Ch. 11)



Plot 7-200. Conducted Spurious Plot SISO NORTH (802.11b – Ch. 11)

|   |  |                                       |   |
|---|--|---------------------------------------|---|
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| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 132 of 182   |

## 7.7 Radiated Spurious Emission Measurements – Above 1 GHz

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

### Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

***All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-17 per Section 15.209 and RSS-Gen (8.9).***

| Frequency       | Field Strength<br>[ $\mu$ V/m] | Measured Distance<br>[Meters] |
|-----------------|--------------------------------|-------------------------------|
| Above 960.0 MHz | 500                            | 3                             |

**Table 7-17. Radiated Limits**

### Test Procedures Used

ANSI C63.10-2013 – Section 6.6.4.3  
 KDB 558074 D01 v05r02 – Sections 8.6, 8.7

### Test Settings

#### Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be  $\geq 2 \times$  span/RBW)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

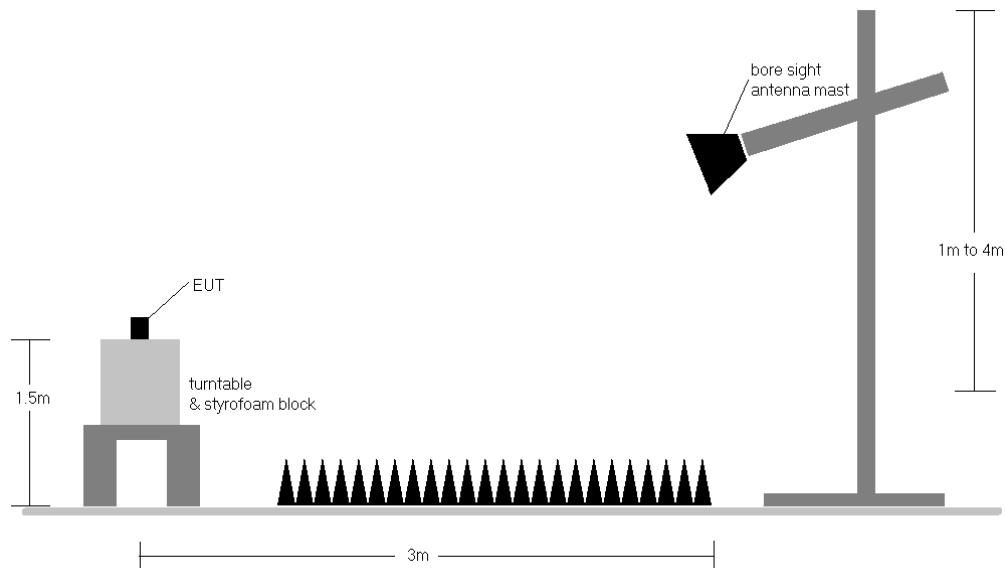
#### Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

|   |   |                                       |   |                                   |
|---|---|---------------------------------------|---|-----------------------------------|
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| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021  | EUT Type:<br>Portable Handset         |   | Page 133 of 182                   |

## Test Setup

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



**Figure 7-6. Test Instrument & Measurement Setup**

## Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in Section 15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-17.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions

|   |  |                                       |  |                                   |
|---|--|---------------------------------------|--|-----------------------------------|
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produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.

8. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

## Sample Calculations

### Determining Spurious Emissions Levels

- Field Strength Level  $[\text{dB}_{\mu\text{V/m}}]$  = Analyzer Level  $[\text{dBm}] + 107 + \text{AFCL} [\text{dB/m}]$
- AFCL  $[\text{dB/m}]$  = Antenna Factor  $[\text{dB/m}] + \text{Cable Loss} [\text{dB}]$
- Margin  $[\text{dB}]$  = Field Strength Level  $[\text{dB}_{\mu\text{V/m}}] - \text{Limit} [\text{dB}_{\mu\text{V/m}}]$

### Radiated Band Edge Measurement Offset

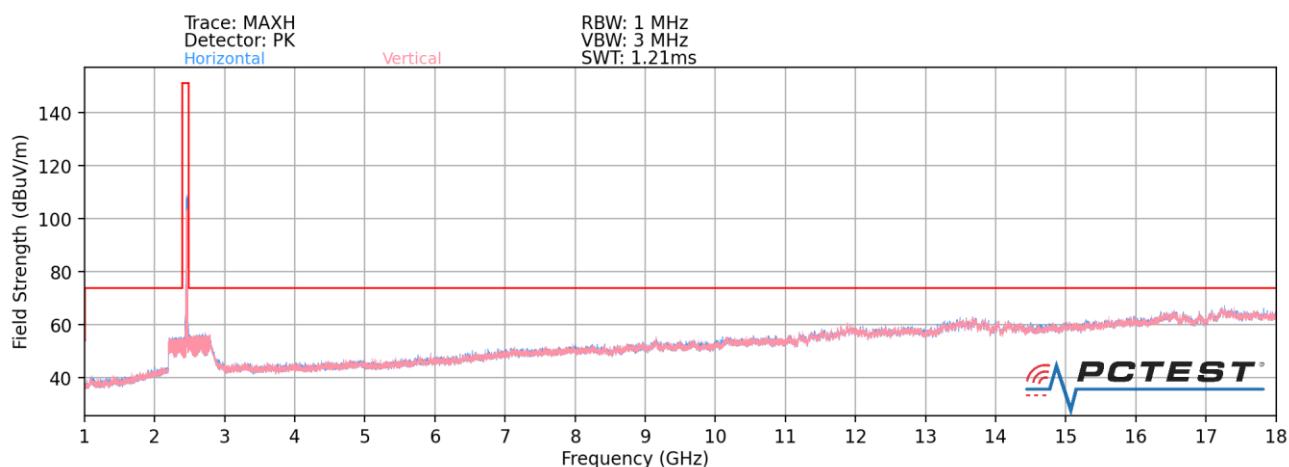
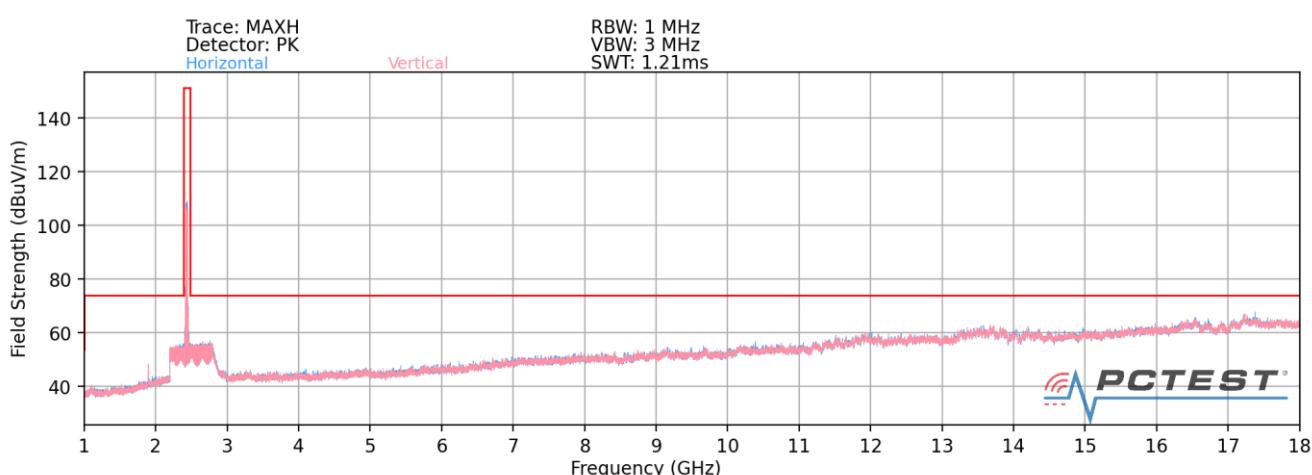
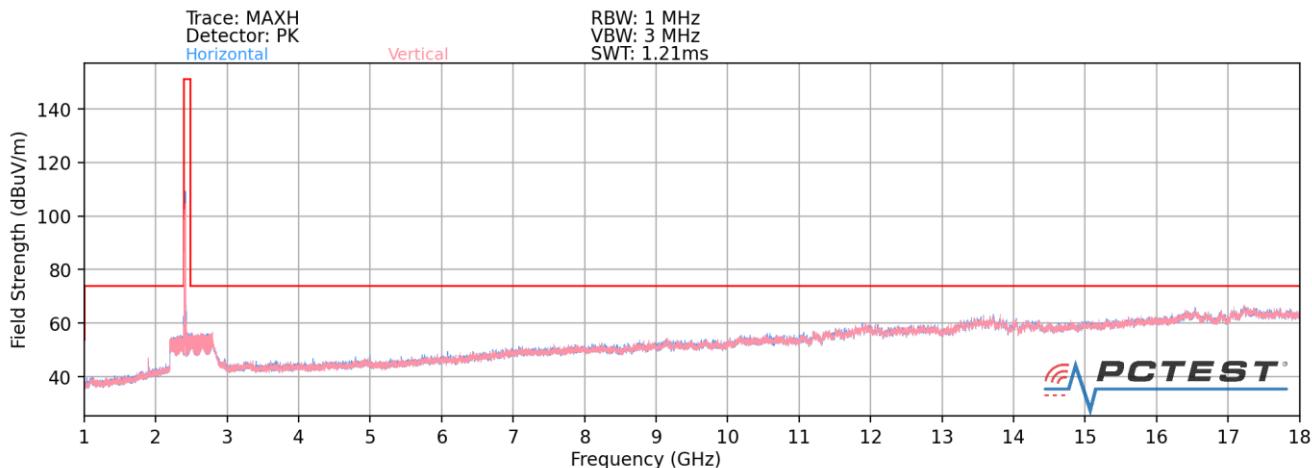
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7 was calculated using the formula:  

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

|   |   |                                       |   |                                   |
|---|---|---------------------------------------|---|-----------------------------------|
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| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021  | EUT Type:<br>Portable Handset         |   | Page 135 of 182                   |

### 7.7.1 SISO SOUTH Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



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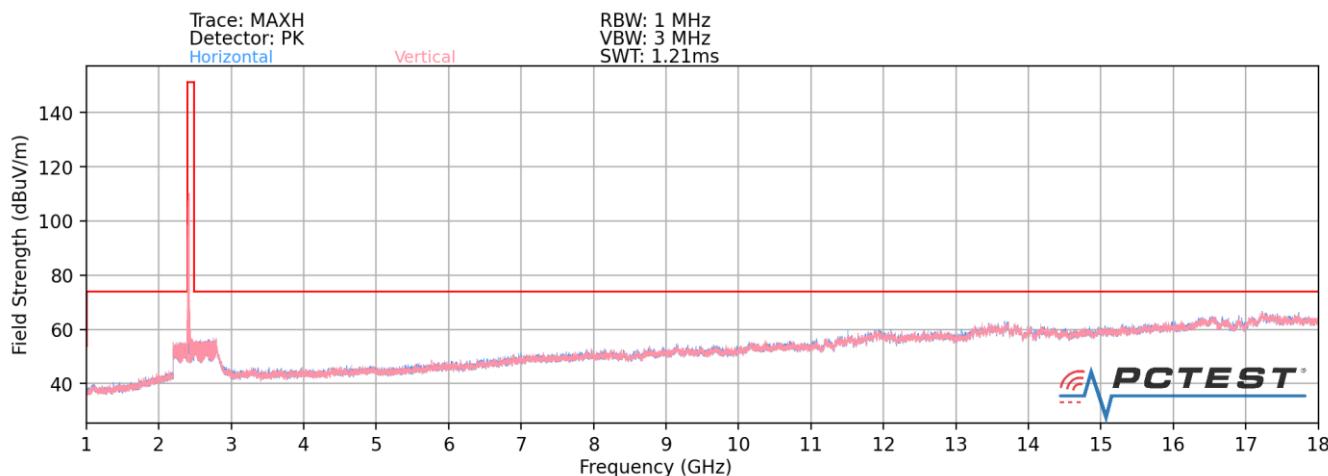
Approved by:  
Technical Manager

Test Report S/N:  
1M2105060048-12.C3K

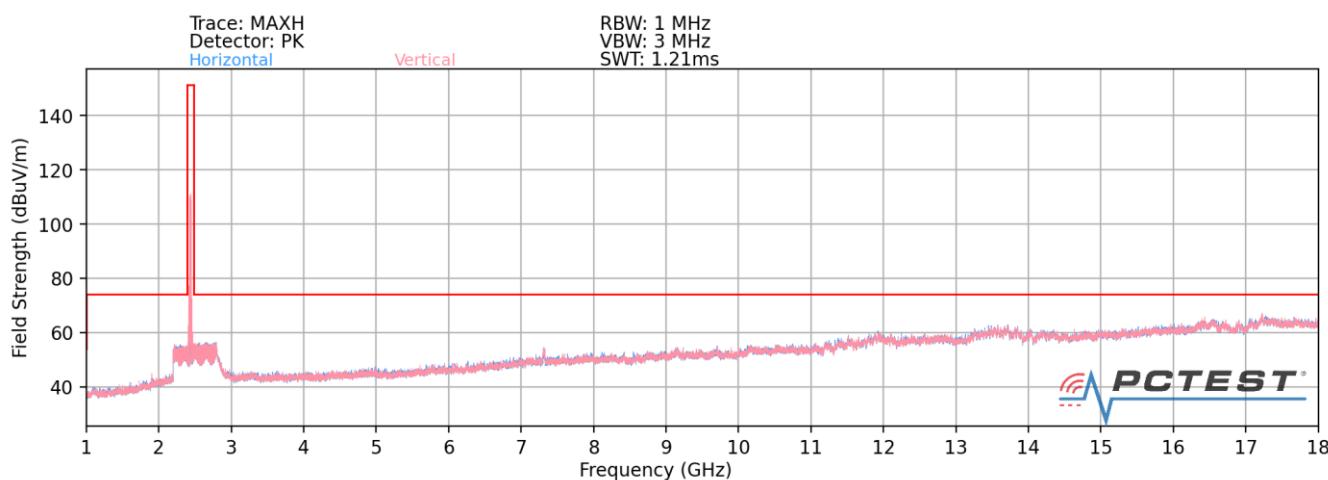
Test Dates:  
05/20/2021 - 09/02/2021

EUT Type:  
Portable Handset

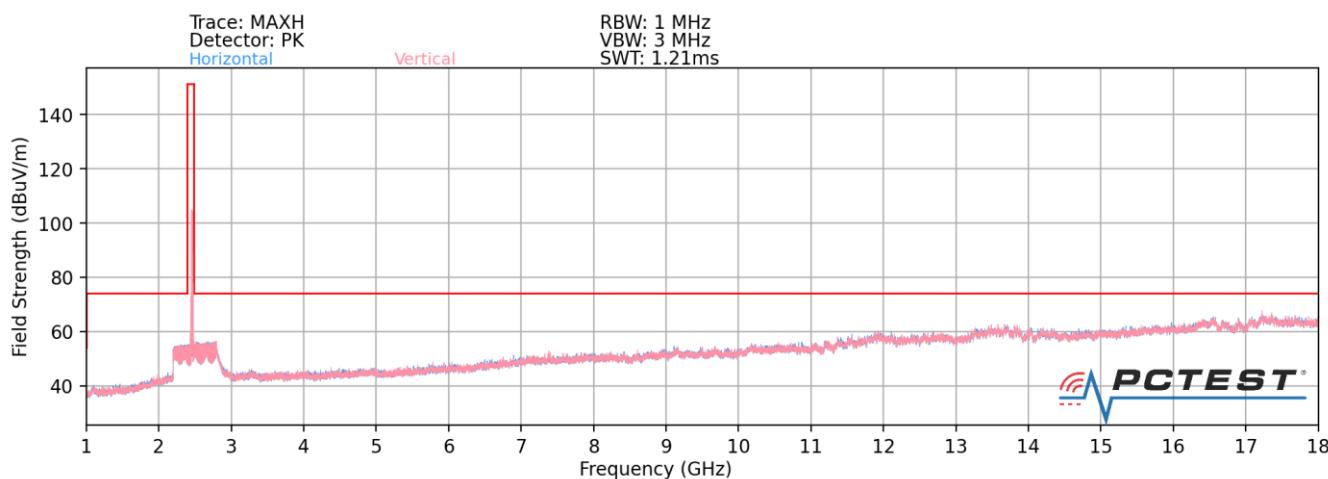
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**Plot 7-204. Radiated Spurious Plot above 1GHz SISO SOUTH (802.11b – Ch. 1) 300°**



**Plot 7-205. Radiated Spurious Plot above 1GHz SISO SOUTH (802.11b – Ch. 6) 300°**

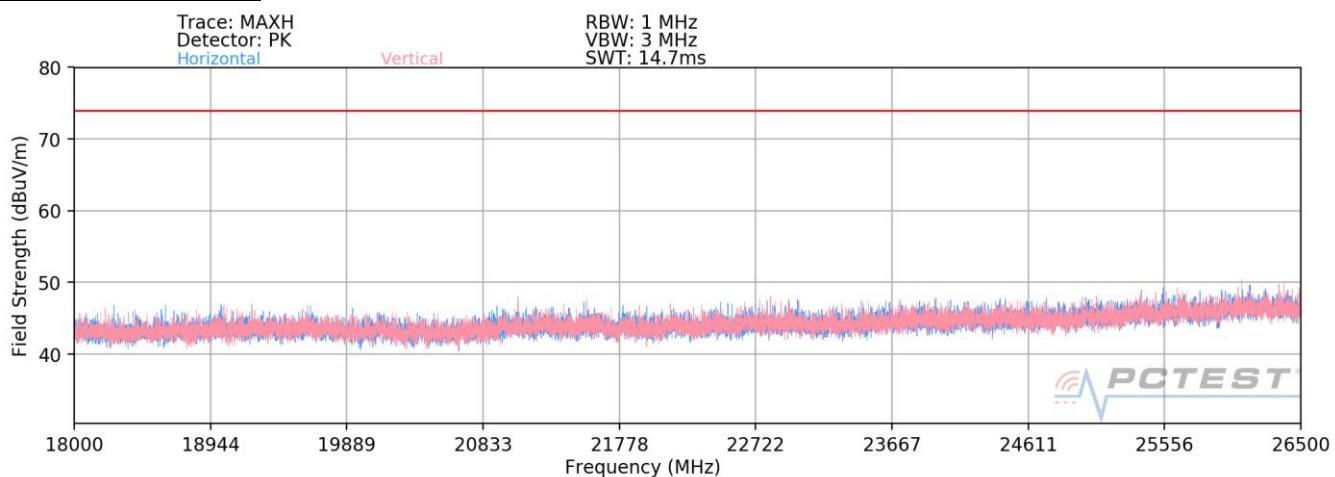


**Plot 7-206. Radiated Spurious Plot above 1GHz SISO SOUTH (802.11b – Ch. 11) 300°**

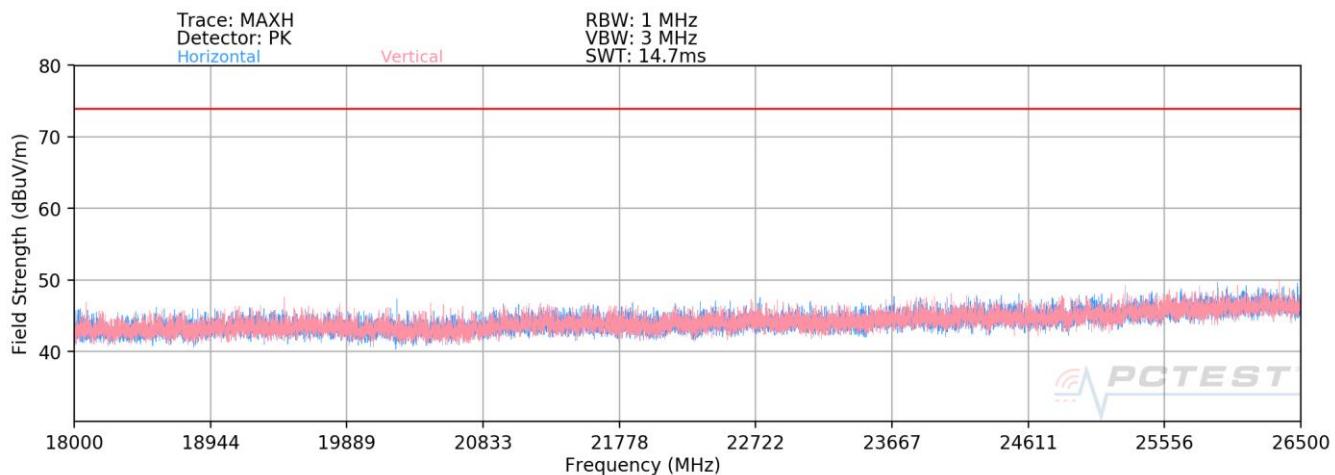
|   |   |                                       |  |
|---|---|---------------------------------------|--|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>PCTEST®<br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | <br>Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021  | EUT Type:<br>Portable Handset         | Page 137 of 182  |

## SISO SOUTH Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



**Plot 7-207. Radiated Spurious Plot above 18GHz SISO SOUTH Closed**



**Plot 7-208. Radiated Spurious Plot above 18GHz SISO SOUTH 300°**

|   |  |                                       |   |                                   |
|---|--|---------------------------------------|---|-----------------------------------|
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**SISO SOUTH Radiated Spurious Emission Measurements**
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11b  |
| Worst Case Transfer Rate: | 1 Mbps   |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 2412MHz  |
| Channel:                  | 01       |

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dB $\mu$ V/m] | Limit [dB $\mu$ V/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|----------------------|-------------|
| 4824.00         | Avg      | V               | 103                 | 308                        | -77.91               | 9.23        | 38.32                         | 53.98                | -15.66      |
| 4824.00         | Peak     | V               | 103                 | 308                        | -66.12               | 9.23        | 50.11                         | 73.98                | -23.87      |
| 12060.00        | Avg      | V               | -                   | -                          | -83.78               | 24.40       | 47.62                         | 53.98                | -6.35       |
| 12060.00        | Peak     | V               | -                   | -                          | -72.30               | 24.40       | 59.10                         | 73.98                | -14.87      |

**Table 7-18. Radiated Measurements SISO SOUTH**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11b  |
| Worst Case Transfer Rate: | 1 Mbps   |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 2437MHz  |
| Channel:                  | 06       |

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dB $\mu$ V/m] | Limit [dB $\mu$ V/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|----------------------|-------------|
| 4874.00         | Avg      | V               | -                   | -                          | -79.95               | 9.01        | 36.06                         | 53.98                | -17.92      |
| 4874.00         | Peak     | V               | -                   | -                          | -68.94               | 9.01        | 47.07                         | 73.98                | -26.91      |
| 7311.00         | Avg      | V               | 292                 | 289                        | -79.50               | 15.98       | 43.48                         | 53.98                | -10.50      |
| 7311.00         | Peak     | V               | 292                 | 289                        | -68.08               | 15.98       | 54.90                         | 73.98                | -19.08      |
| 12185.00        | Avg      | V               | -                   | -                          | -81.55               | 23.09       | 48.54                         | 53.98                | -5.44       |
| 12185.00        | Peak     | V               | -                   | -                          | -70.66               | 23.09       | 59.43                         | 73.98                | -14.55      |

**Table 7-19. Radiated Measurements SISO SOUTH**

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 Test Dates:  
 05/20/2021 - 09/02/2021

 EUT Type:  
 Portable Handset

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Worst Case Mode: 802.11b  
 Worst Case Transfer Rate: 1 Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11

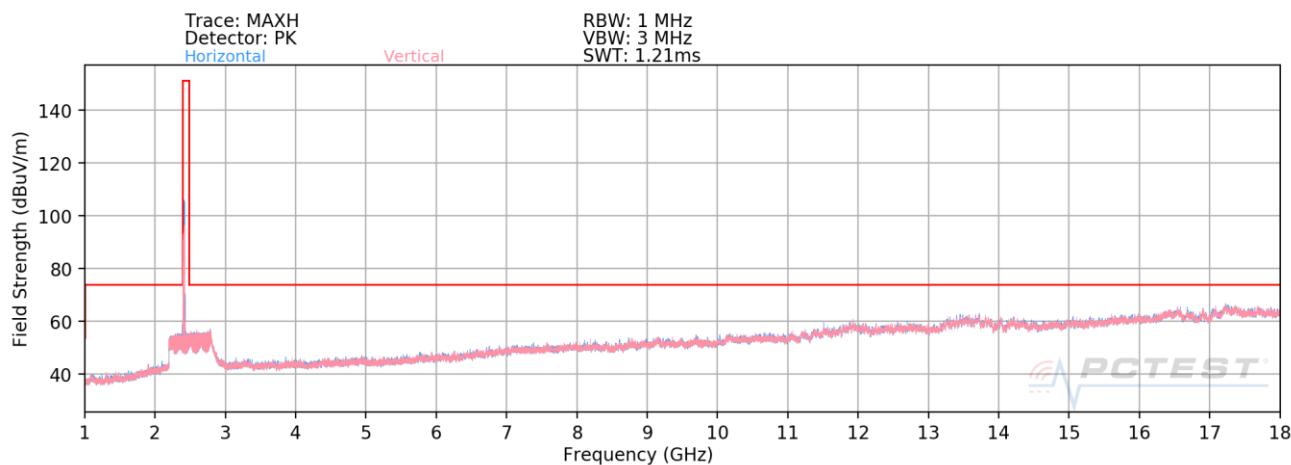
| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dB $\mu$ V/m] | Limit [dB $\mu$ V/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|----------------------|-------------|
| 4924.00         | Avg      | V               | -                   | -                          | -80.78               | 9.73        | 35.95                         | 53.98                | -18.03      |
| 4924.00         | Peak     | V               | -                   | -                          | -69.78               | 9.73        | 46.95                         | 73.98                | -27.03      |
| 7386.00         | Avg      | V               | 318                 | 212                        | -79.29               | 15.79       | 43.50                         | 53.98                | -10.48      |
| 7386.00         | Peak     | V               | 318                 | 212                        | -66.06               | 15.79       | 56.73                         | 73.98                | -17.25      |
| 12310.00        | Avg      | V               | -                   | -                          | -84.31               | 23.87       | 46.56                         | 53.98                | -7.42       |
| 12310.00        | Peak     | V               | -                   | -                          | -73.56               | 23.87       | 57.31                         | 73.98                | -16.67      |

**Table 7-20. Radiated Measurements SISO SOUTH**

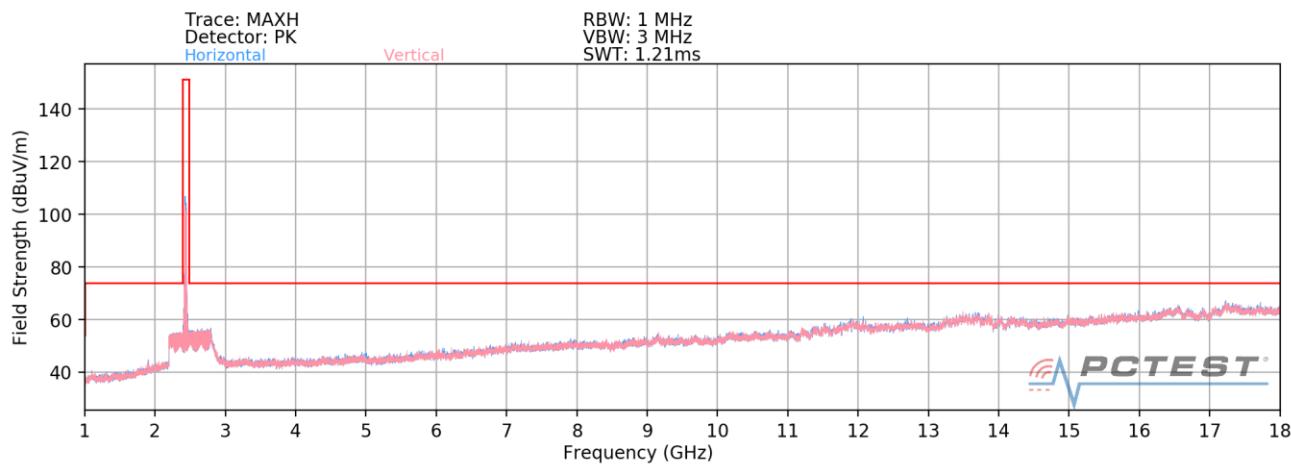
|   |  |  |                                       |  |                                   |
|---|--|--|---------------------------------------|--|-----------------------------------|
| FCC ID: C3K1995<br>IC: 3048A-1995       |  <b>PCTEST®</b><br><small>Proud to be part of element</small> |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  <b>Microsoft</b> | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | <b>Test Dates:</b><br>05/20/2021 - 09/02/2021  |  | <b>EUT Type:</b><br>Portable Handset  | Page 140 of 182  |                                   |

## 7.7.2 SISO NORTH Radiated Spurious Emission Measurements

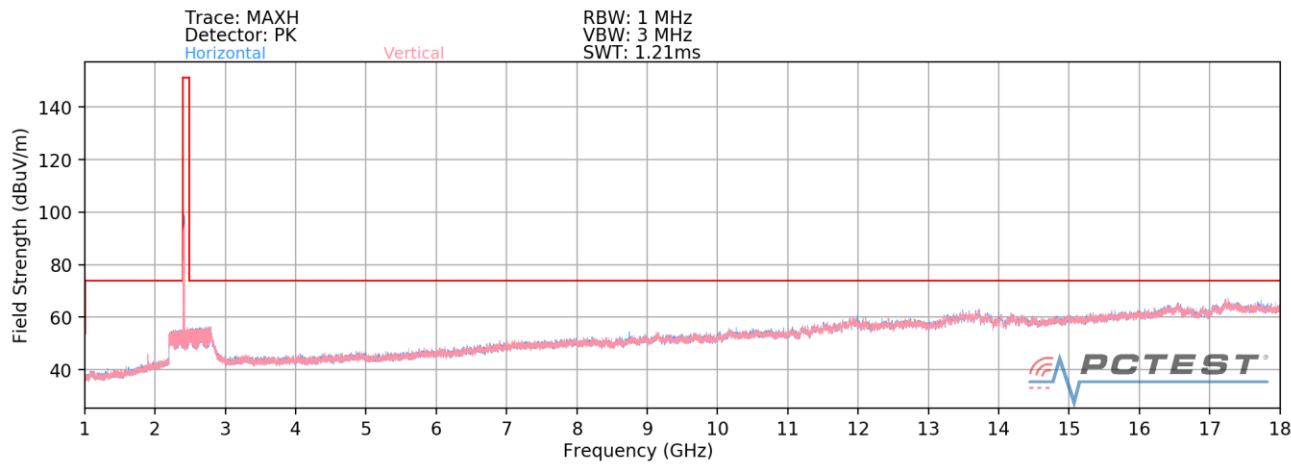
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-209. Radiated Spurious Plot above 1GHz SISO NORTH (802.11b – Ch. 1) Closed

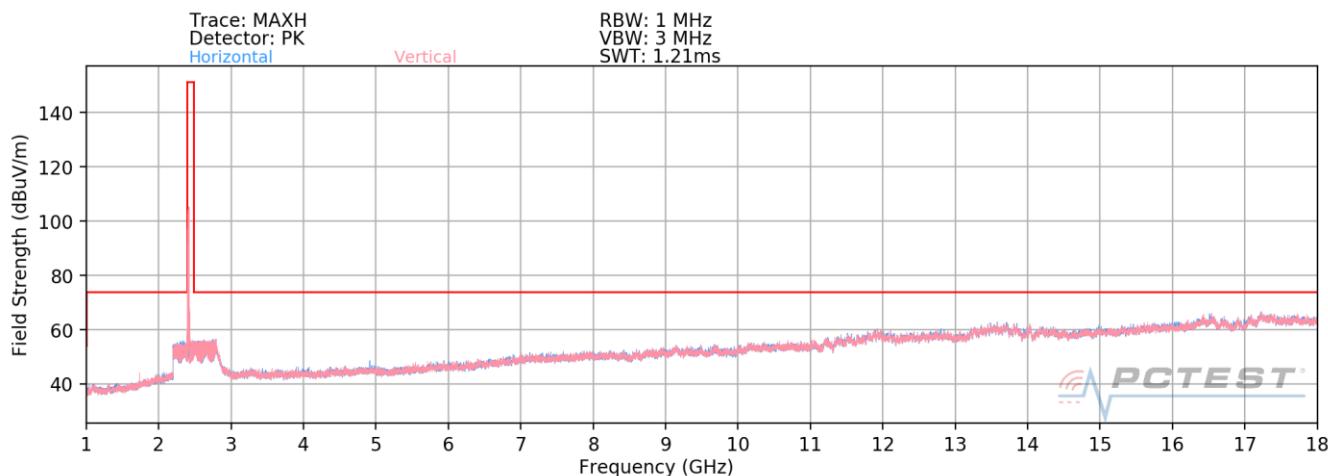


Plot 7-210. Radiated Spurious Plot above 1GHz SISO NORTH (802.11b – Ch. 6) Closed

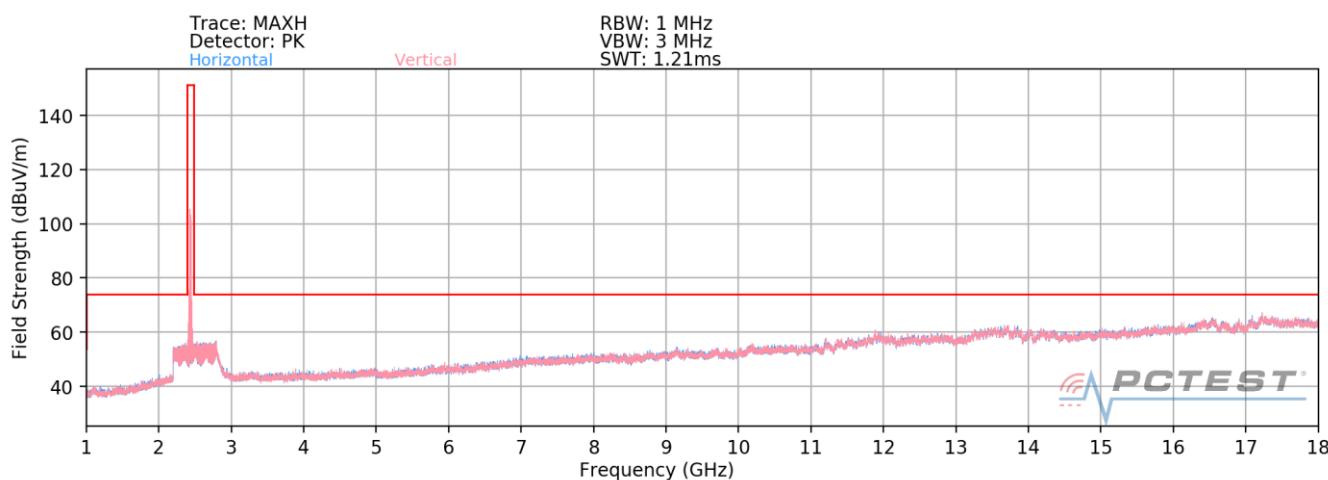


Plot 7-211. Radiated Spurious Plot above 1GHz SISO NORTH (802.11b – Ch. 11) Closed

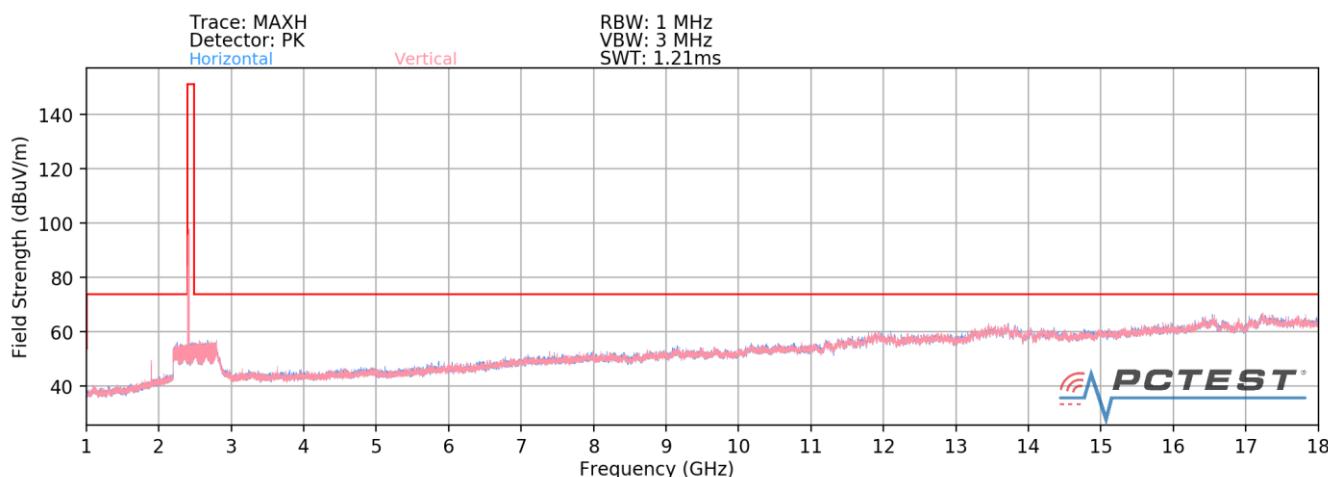
|   |  |                                       |  |                                   |
|---|--|---------------------------------------|--|-----------------------------------|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>PCTEST<br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | <br>Microsoft | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         |  | Page 141 of 182                   |



**Plot 7-212. Radiated Spurious Plot above 1GHz SISO NORTH (802.11b – Ch. 1) 300°**



**Plot 7-213. Radiated Spurious Plot above 1GHz SISO NORTH (802.11b – Ch. 6) 300°**

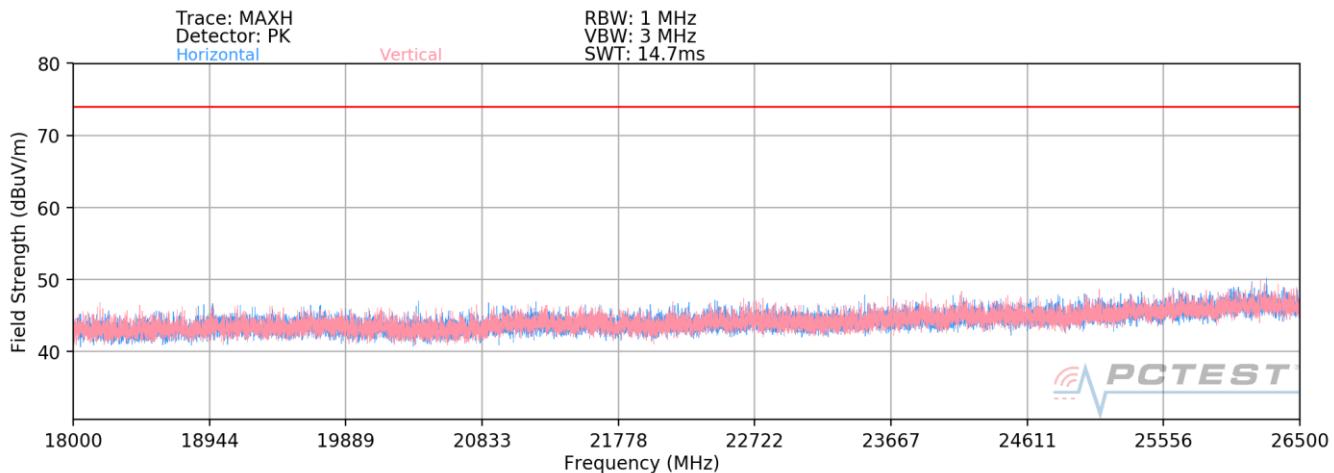


**Plot 7-214. Radiated Spurious Plot above 1GHz SISO NORTH (802.11b – Ch. 11) 300°**

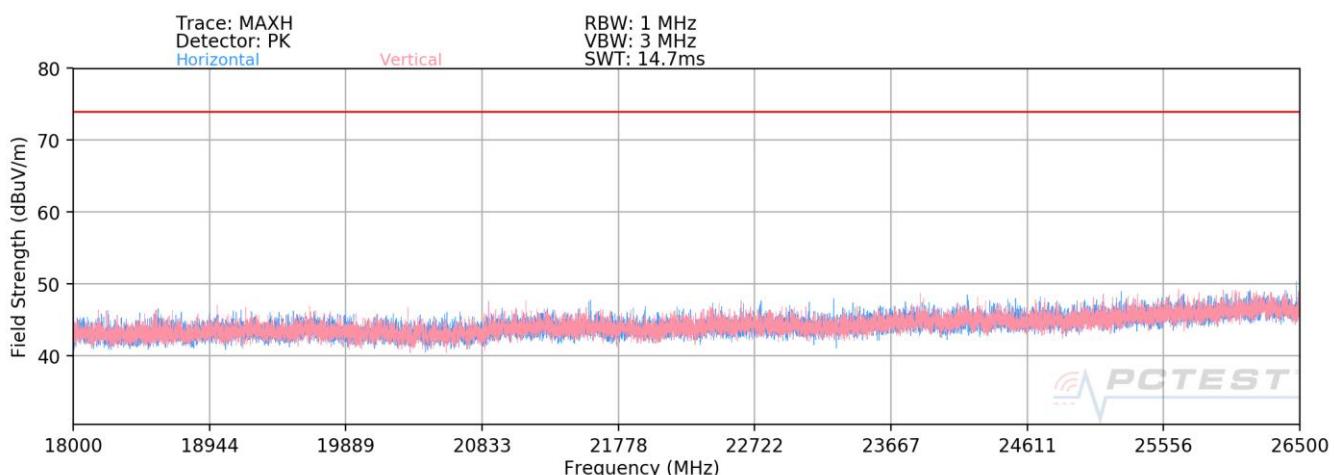
|   |  |                                       |  |
|---|--|---------------------------------------|--|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>PCTEST<br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | <br>Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         | Page 142 of 182  |

## SISO NORTH Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



**Plot 7-215. Radiated Spurious Plot above 18GHz SISO NORTH Closed**



**Plot 7-216. Radiated Spurious Plot above 18GHz SISO NORTH 300°**

|   |   |                                       |   |                                   |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: C3K1995<br>IC: 3048A-1995       | <br>PCTEST®<br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021  | EUT Type:<br>Portable Handset         |   | Page 143 of 182                   |

**SISO NORTH Radiated Spurious Emission Measurements**
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11b  |
| Worst Case Transfer Rate: | 1 Mbps   |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 2412MHz  |
| Channel:                  | 01       |

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dB $\mu$ V/m] | Limit [dB $\mu$ V/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|----------------------|-------------|
| 4824.00         | Avg      | V               | -                   | -                          | -80.73               | 9.23        | 35.50                         | 53.98                | -18.48      |
| 4824.00         | Peak     | V               | -                   | -                          | -69.39               | 9.23        | 46.84                         | 73.98                | -27.14      |
| 12060.00        | Avg      | V               | -                   | -                          | -83.72               | 24.40       | 47.68                         | 53.98                | -6.29       |
| 12060.00        | Peak     | V               | -                   | -                          | -72.41               | 24.40       | 58.99                         | 73.98                | -14.98      |

**Table 7-21. Radiated Measurements SISO NORTH**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11b  |
| Worst Case Transfer Rate: | 1 Mbps   |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 2437MHz  |
| Channel:                  | 06       |

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dB $\mu$ V/m] | Limit [dB $\mu$ V/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|----------------------|-------------|
| 4874.00         | Avg      | V               | -                   | -                          | -80.43               | 9.06        | 35.63                         | 53.98                | -18.35      |
| 4874.00         | Peak     | V               | -                   | -                          | -69.57               | 9.06        | 46.49                         | 73.98                | -27.49      |
| 7311.00         | Avg      | V               | -                   | -                          | -82.53               | 16.04       | 40.51                         | 53.98                | -13.47      |
| 7311.00         | Peak     | V               | -                   | -                          | -70.92               | 16.04       | 52.12                         | 73.98                | -21.86      |
| 12185.00        | Avg      | V               | -                   | -                          | -84.32               | 23.27       | 45.95                         | 53.98                | -8.03       |
| 12185.00        | Peak     | V               | -                   | -                          | -72.85               | 23.27       | 57.42                         | 73.98                | -16.56      |

**Table 7-22. Radiated Measurements SISO NORTH**

 FCC ID: C3K1995  
 IC: 3048A-1995


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 Test Report S/N:  
 1M2105060048-12.C3K

 Test Dates:  
 05/20/2021 - 09/02/2021

 EUT Type:  
 Portable Handset

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Worst Case Mode: 802.11b  
 Worst Case Transfer Rate: 1 Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dB $\mu$ V/m] | Limit [dB $\mu$ V/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|----------------------|-------------|
| 4924.00         | Avg      | V               | -                   | -                          | -80.86               | 9.73        | 35.87                         | 53.98                | -18.11      |
| 4924.00         | Peak     | V               | -                   | -                          | -69.80               | 9.73        | 46.93                         | 73.98                | -27.05      |
| 7386.00         | Avg      | V               | -                   | -                          | -82.53               | 15.79       | 40.26                         | 53.98                | -13.72      |
| 7386.00         | Peak     | V               | -                   | -                          | -71.82               | 15.79       | 50.97                         | 73.98                | -23.01      |
| 12310.00        | Avg      | V               | -                   | -                          | -84.53               | 23.87       | 46.34                         | 53.98                | -7.64       |
| 12310.00        | Peak     | V               | -                   | -                          | -73.36               | 23.87       | 57.51                         | 73.98                | -16.47      |

**Table 7-23. Radiated Measurements SISO NORTH**

|   |  |                                       |  |                                   |
|---|--|---------------------------------------|--|-----------------------------------|
| FCC ID: C3K1995<br>IC: 3048A-1995       |  <b>PCTEST®</b><br><small>Proud to be part of element</small> | MEASUREMENT REPORT<br>(CERTIFICATION) |  <b>Microsoft</b> | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2105060048-12.C3K | Test Dates:<br>05/20/2021 - 09/02/2021   | EUT Type:<br>Portable Handset         |  | Page 145 of 182                   |