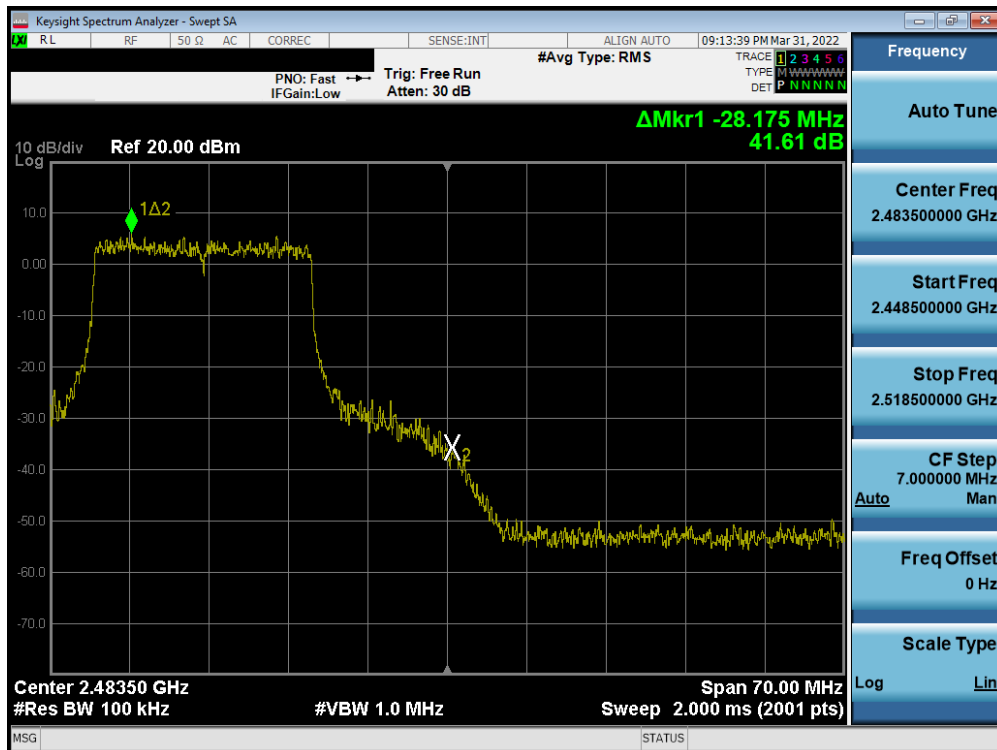
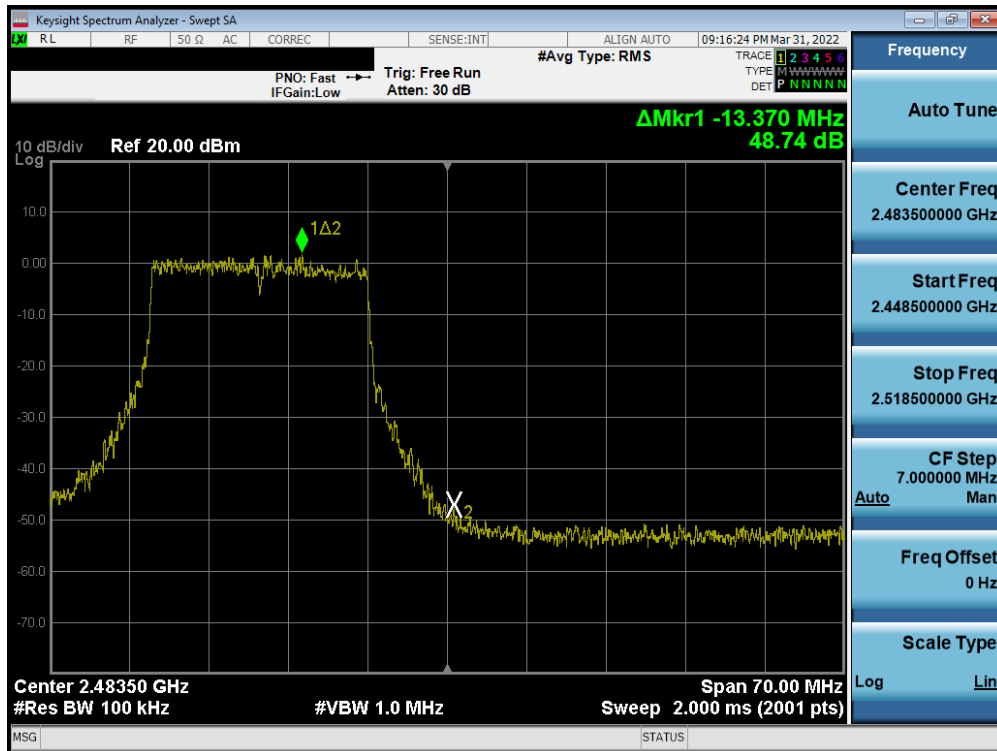


Plot 7-98. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 10) – 20MHz

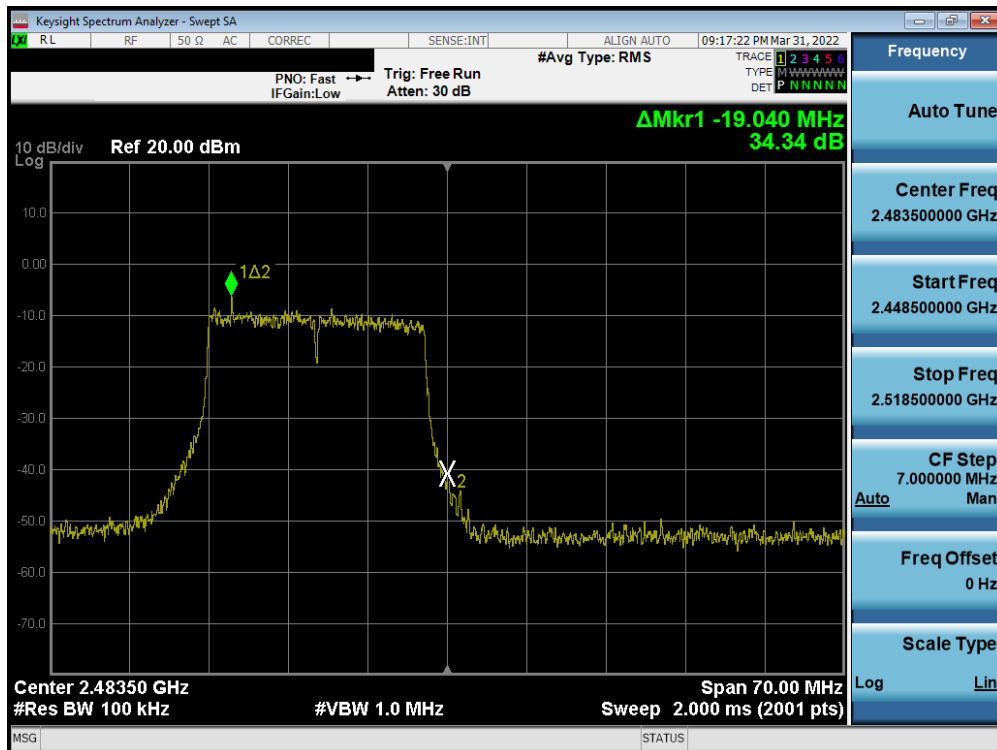


Plot 7-99. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 11) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 102 of 213

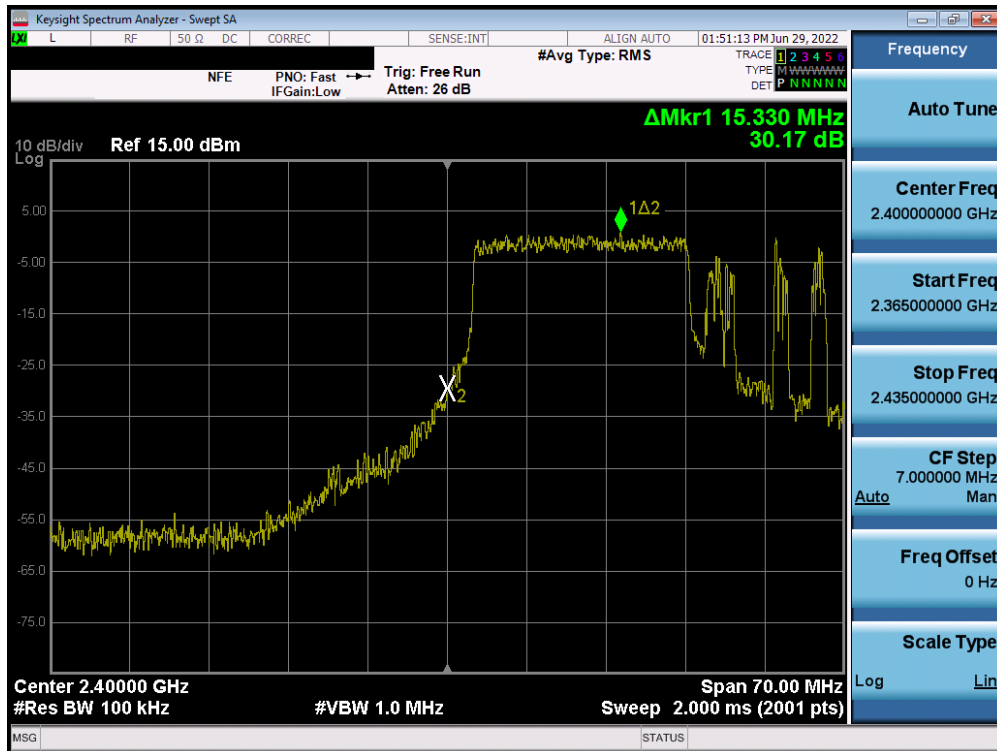


Plot 7-100. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 12) – 20MHz

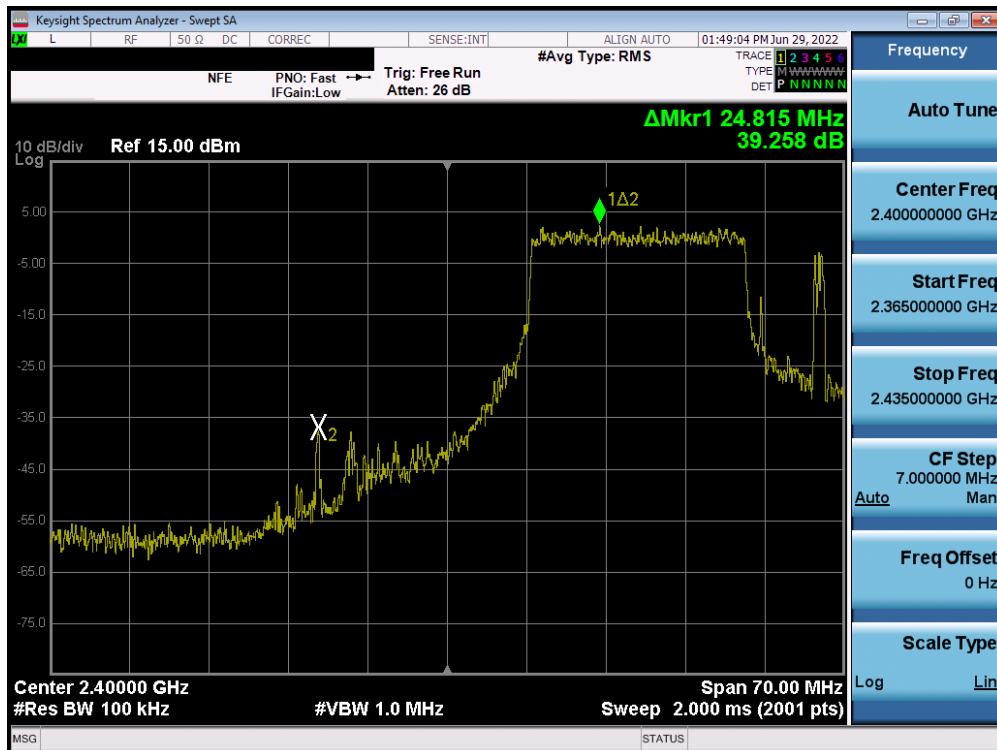


Plot 7-101. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 13) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 103 of 213

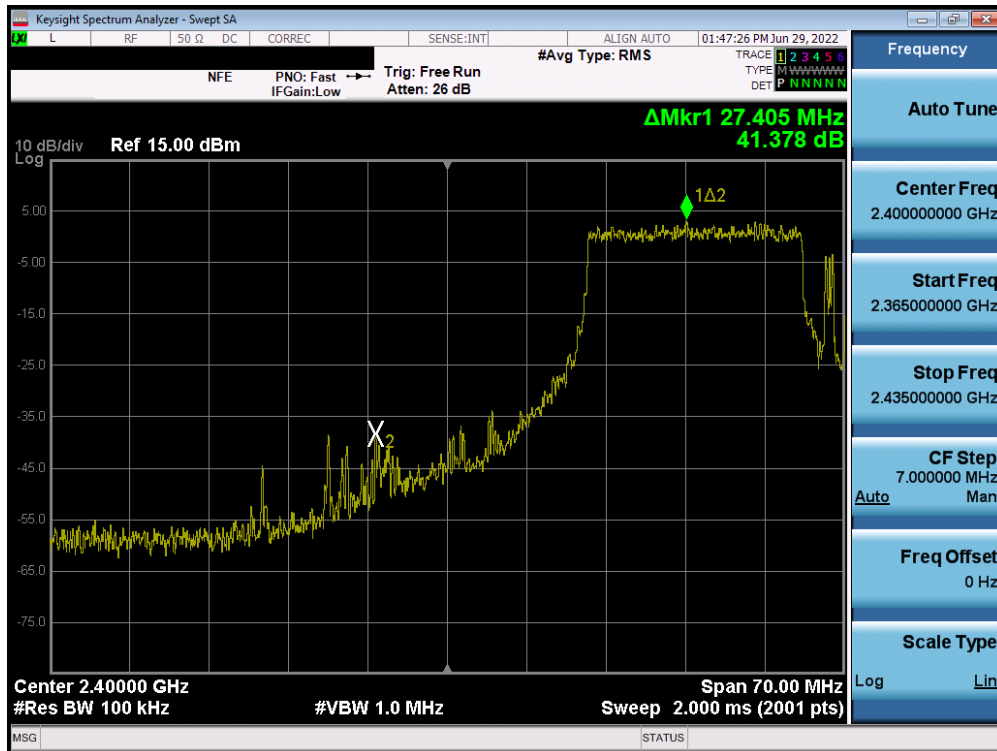


Plot 7-102. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 3) – 40MHz

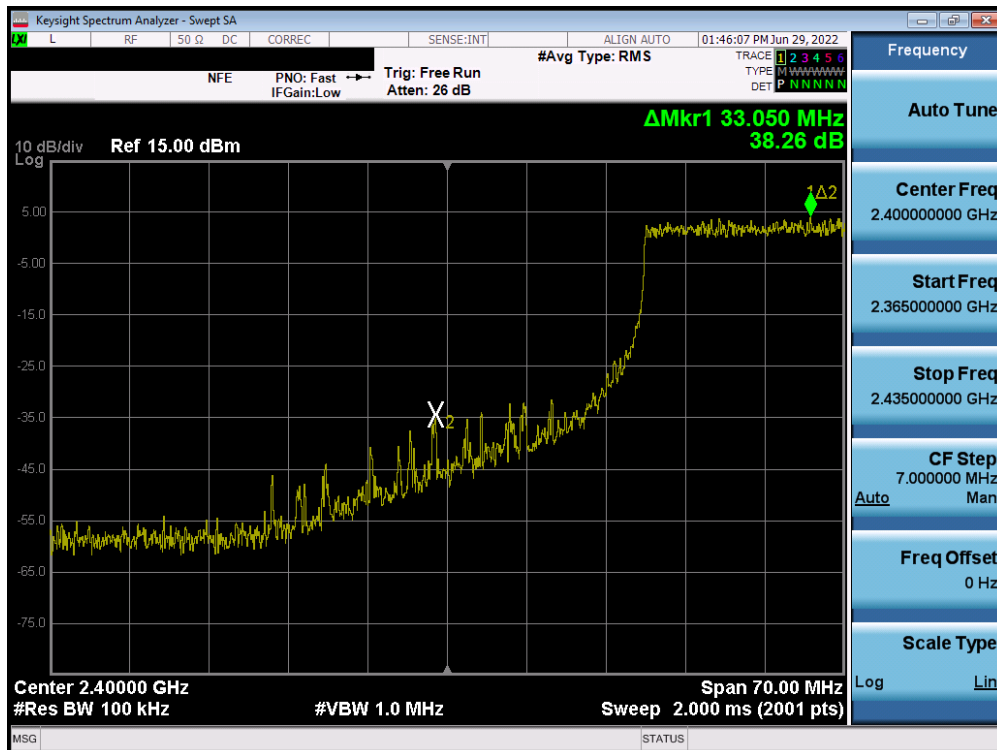


Plot 7-103. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 4) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 104 of 213

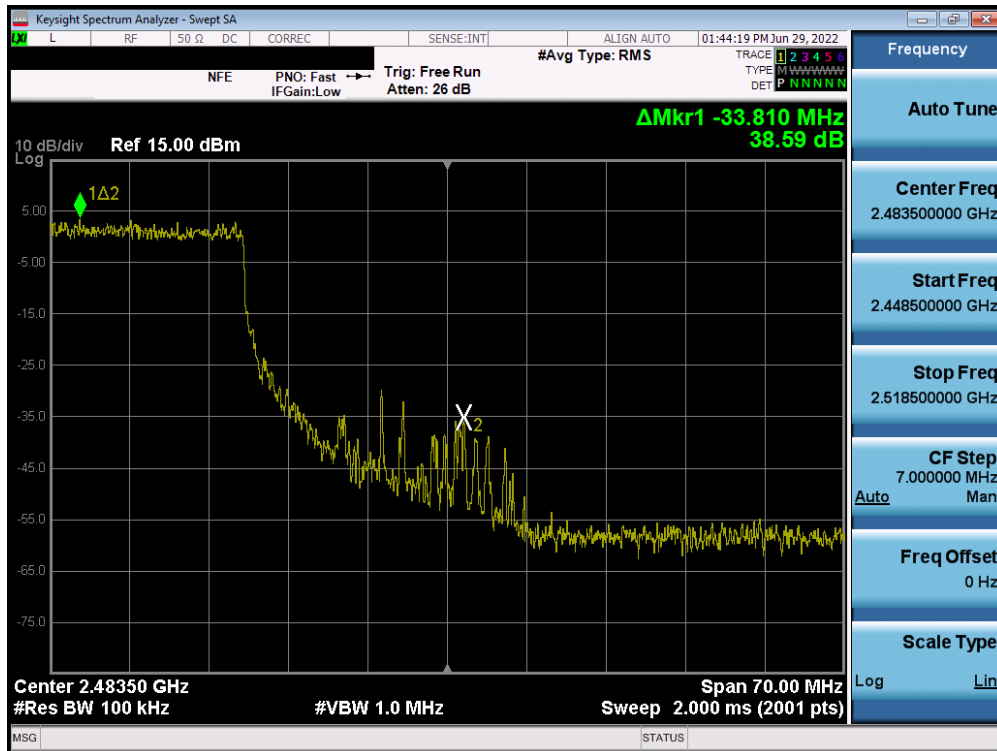


Plot 7-104. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 5) – 40MHz

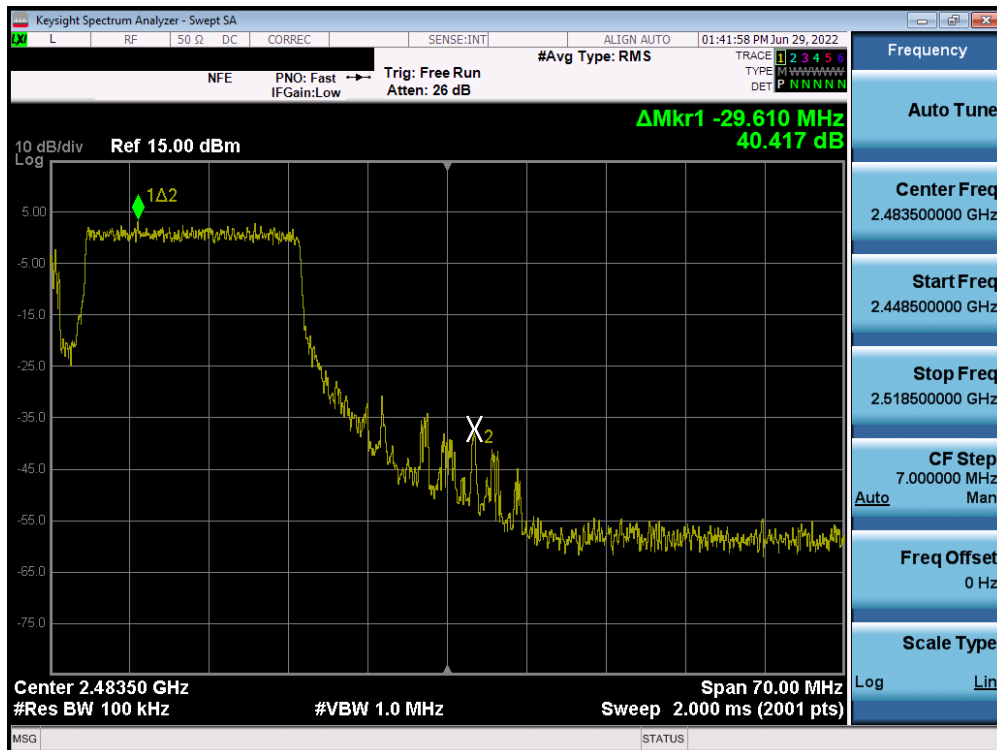


Plot 7-105. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 6) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 105 of 213

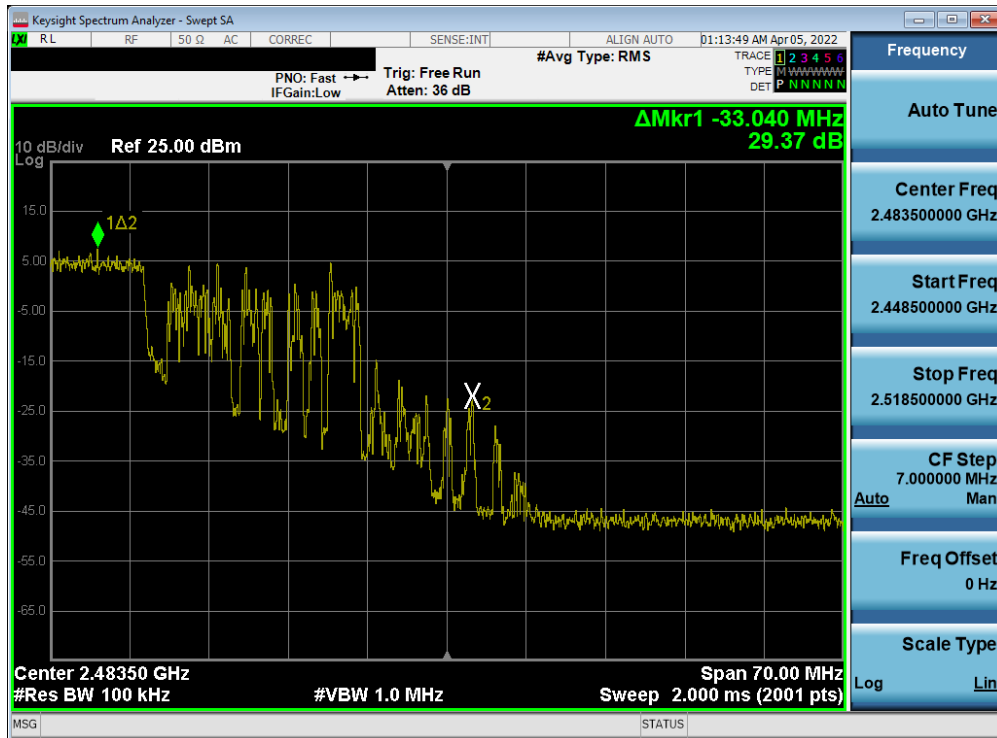


Plot 7-106. Band Edge Plot SISO ANT2 (802.11ax OFDMA - 242 Tones - Ch. 8) - 40MHz

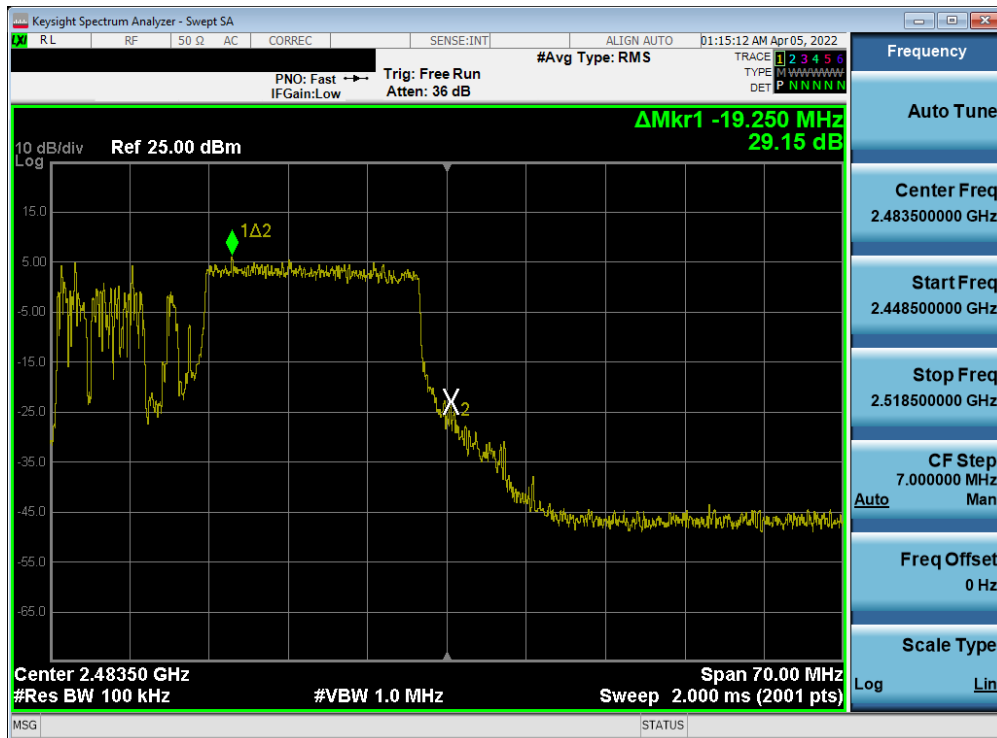


Plot 7-107. Band Edge Plot SISO ANT2 (802.11ax OFDMA - 242 Tones - Ch. 9) - 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 106 of 213

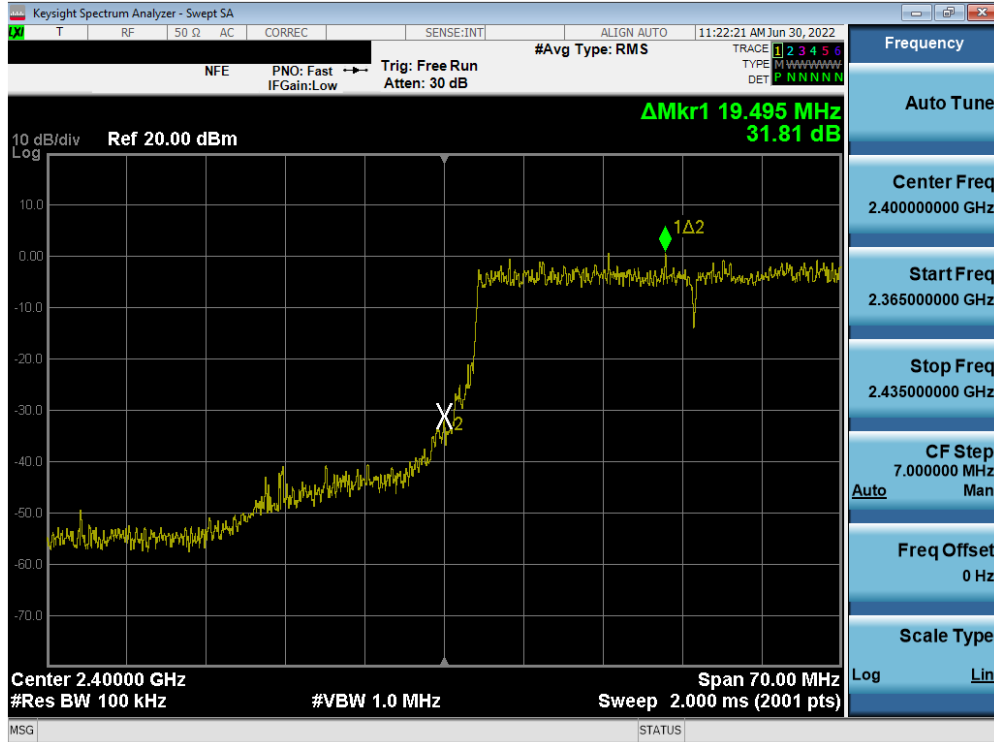


Plot 7-108. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 10) – 40MHz

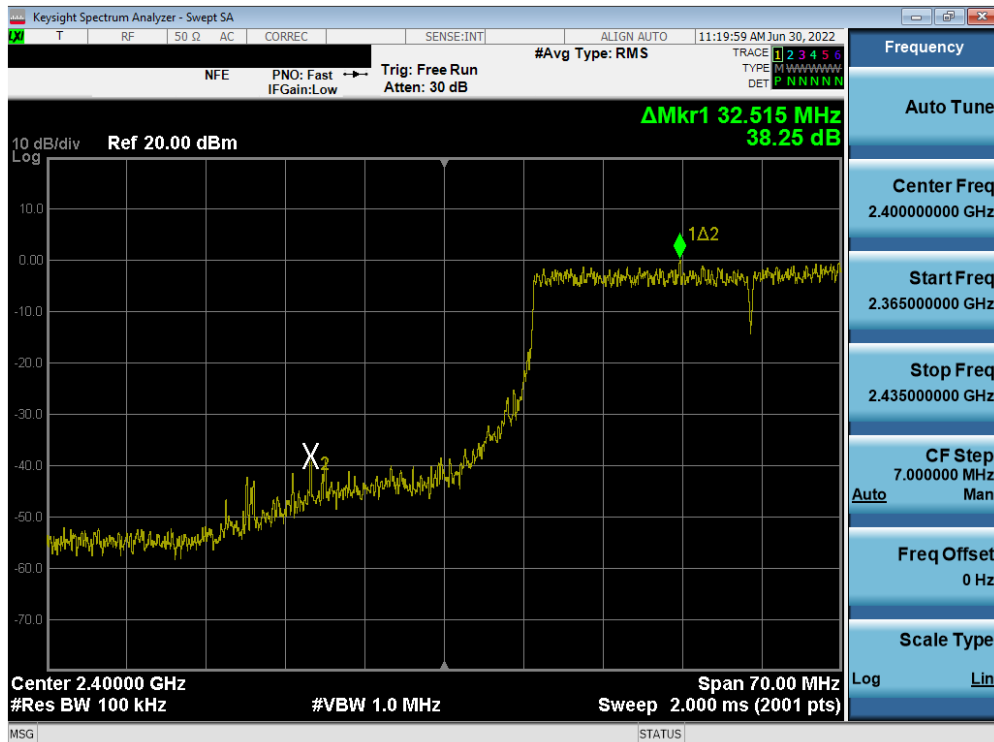


Plot 7-109. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 11) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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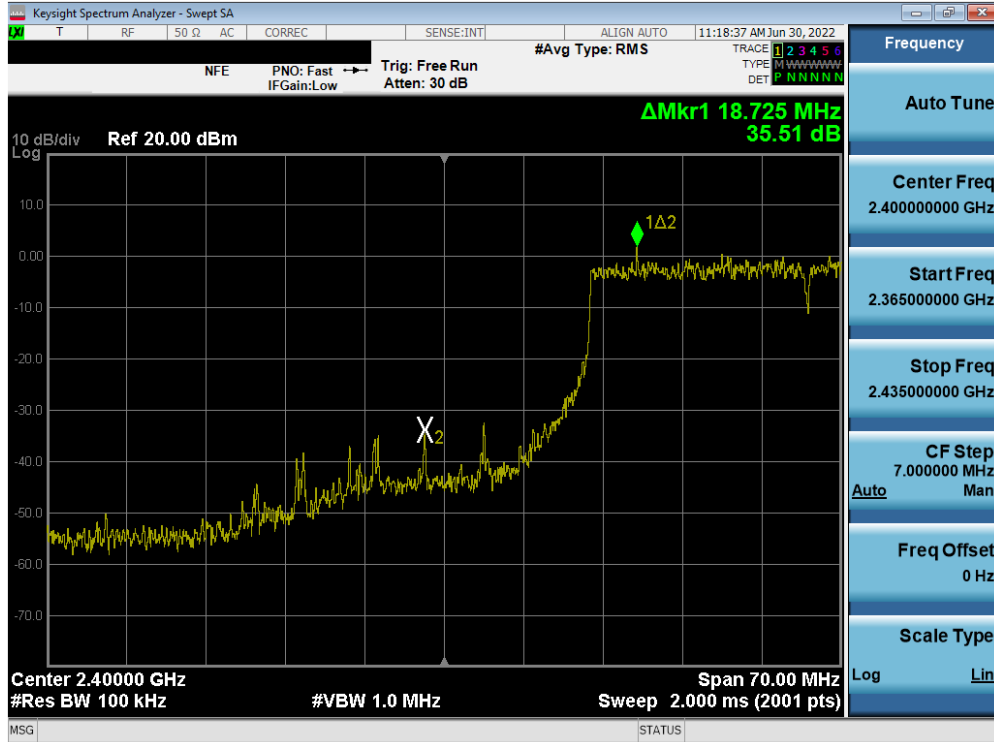


Plot 7-110. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 484 Tones – Ch. 3) – 40MHz

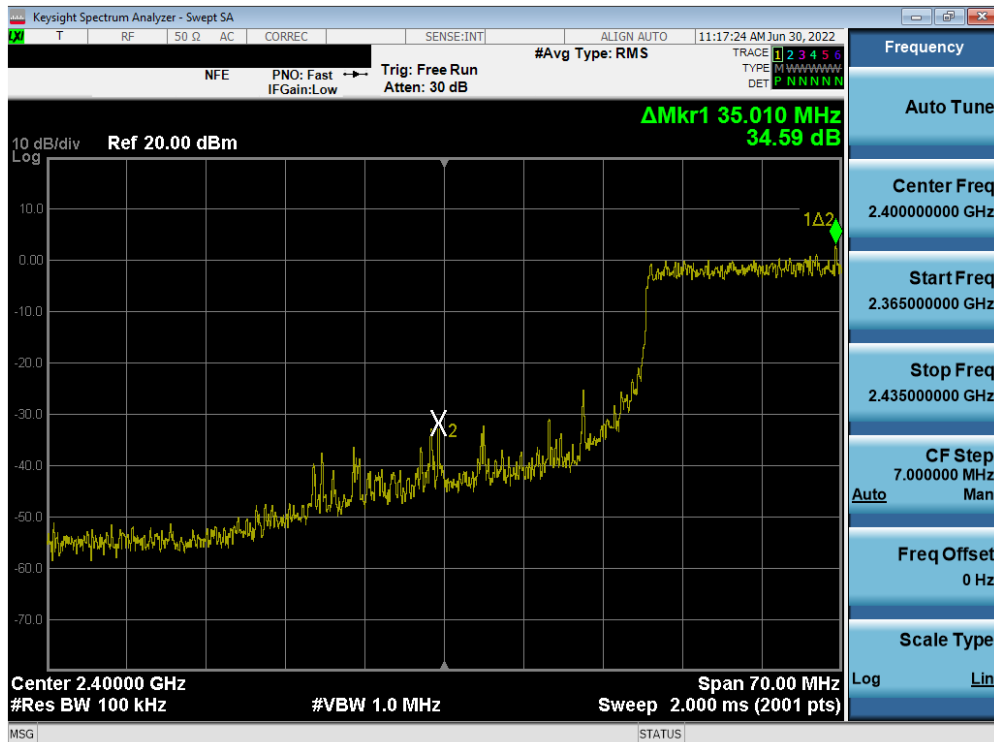


Plot 7-111. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 484Tones – Ch. 4) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 108 of 213

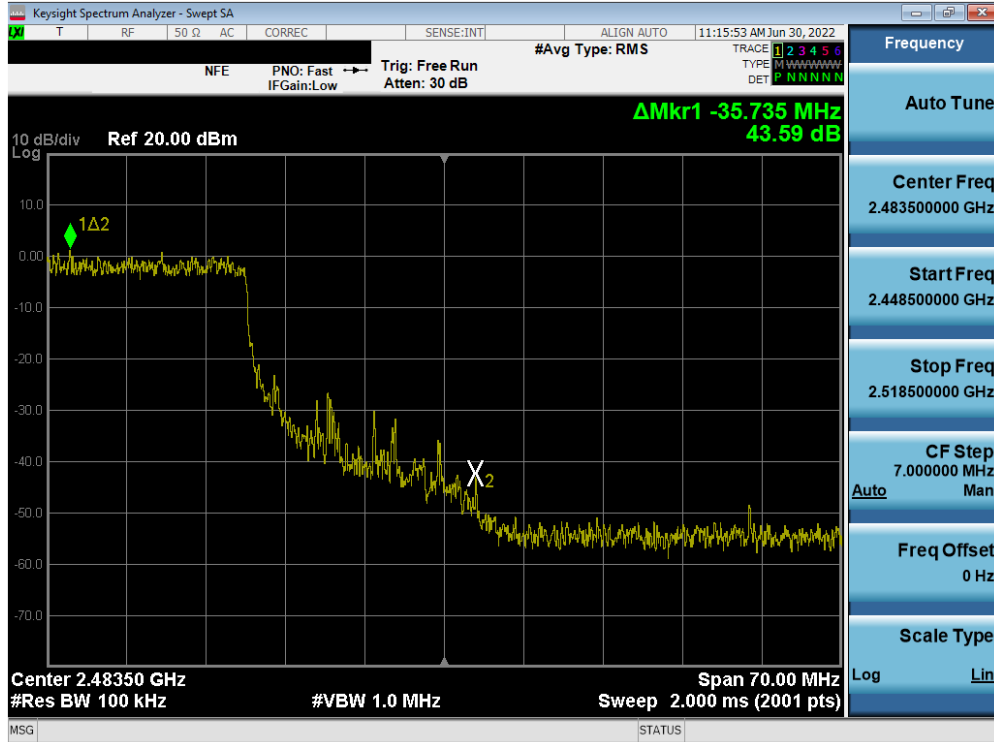


Plot 7-112. Band Edge Plot SISO ANT2 (802.11ax OFDMA -484Tones - Ch. 5) - 40MHz

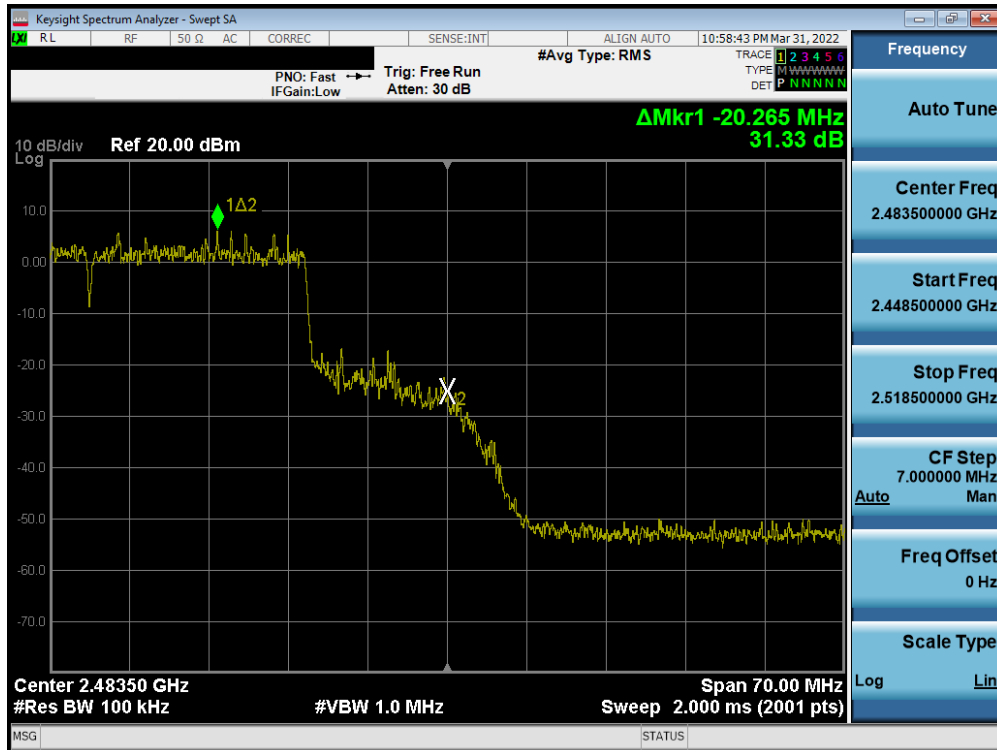


Plot 7-113. Band Edge Plot SISO ANT2 (802.11ax OFDMA -484Tones - Ch. 6) - 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 109 of 213

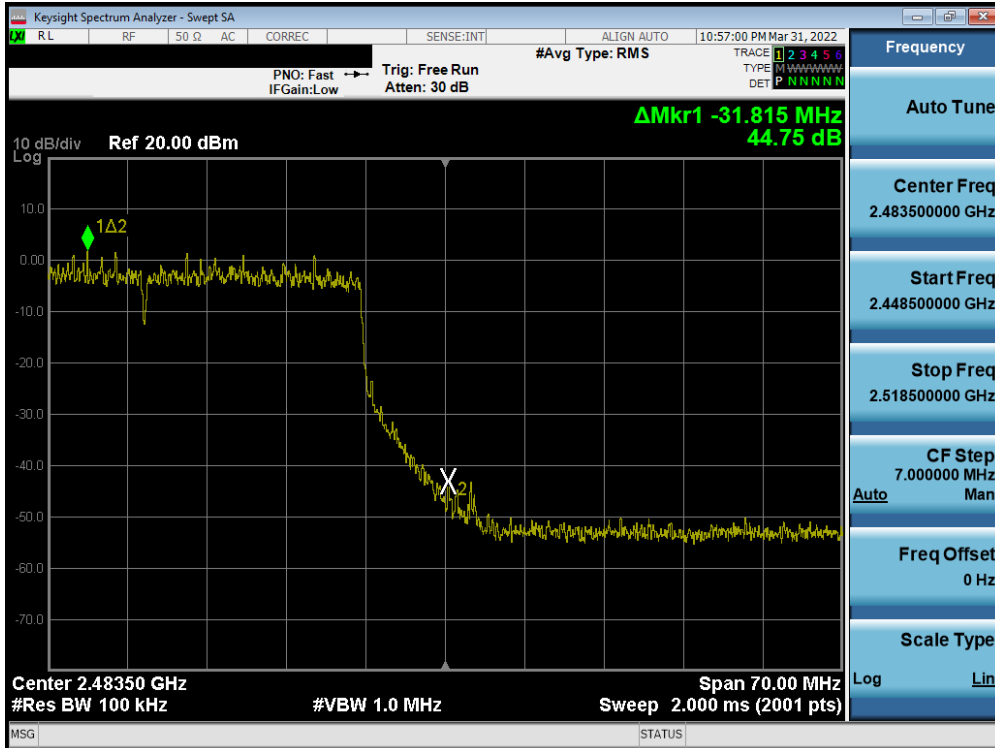


Plot 7-114. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 484 Tones – Ch. 8) – 40MHz

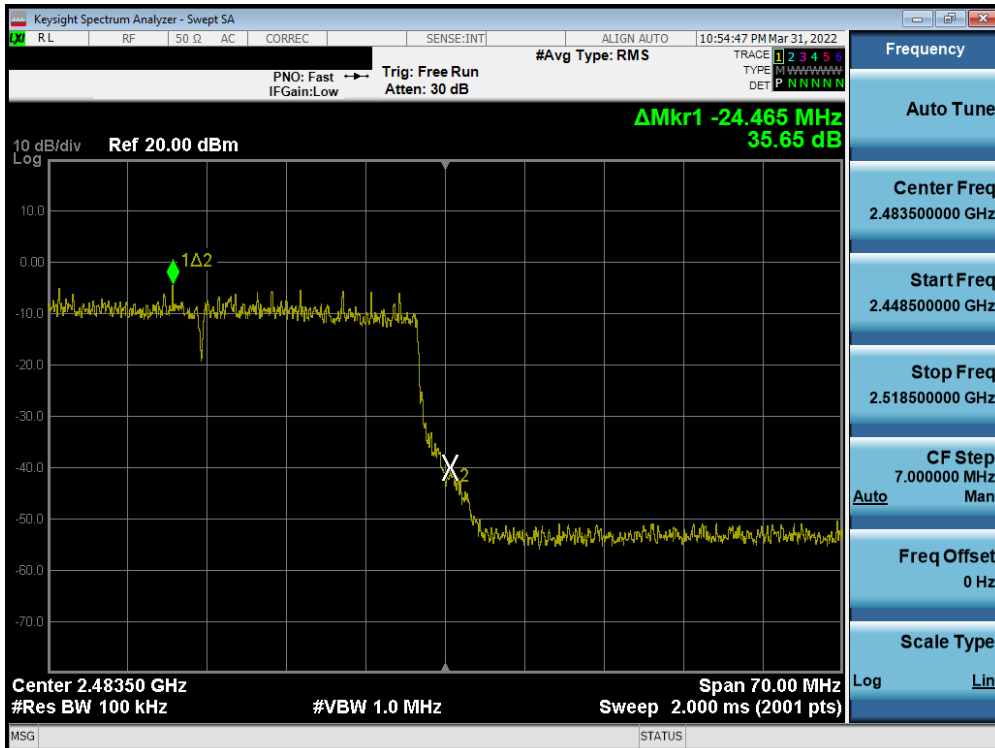


Plot 7-115. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 484 Tones – Ch. 9) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-116. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 484 Tones – Ch. 10) – 40MHz



Plot 7-117. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 484 Tones – Ch. 11) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 111 of 213

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, tone configurations, and RU indices were investigated to determine the worst case configuration. For the following out of band conducted emissions plots, the EUT was set to a data rate of MCS0 in 802.11ax mode as this setting produced the worst-case emissions.

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

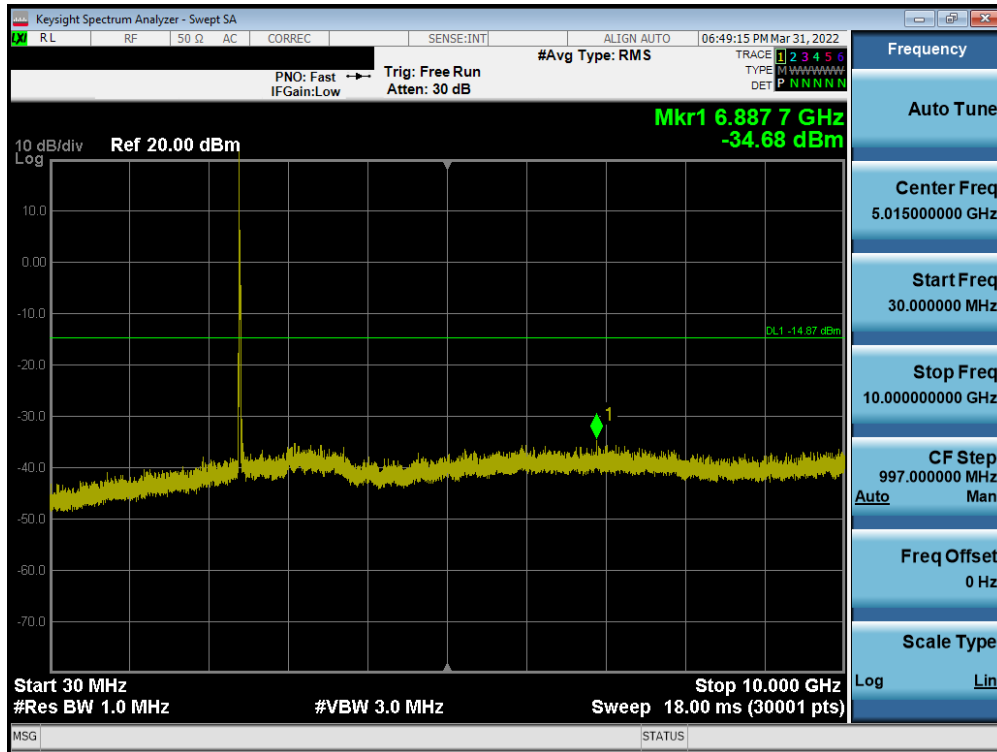
FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 112 of 213

Test Notes

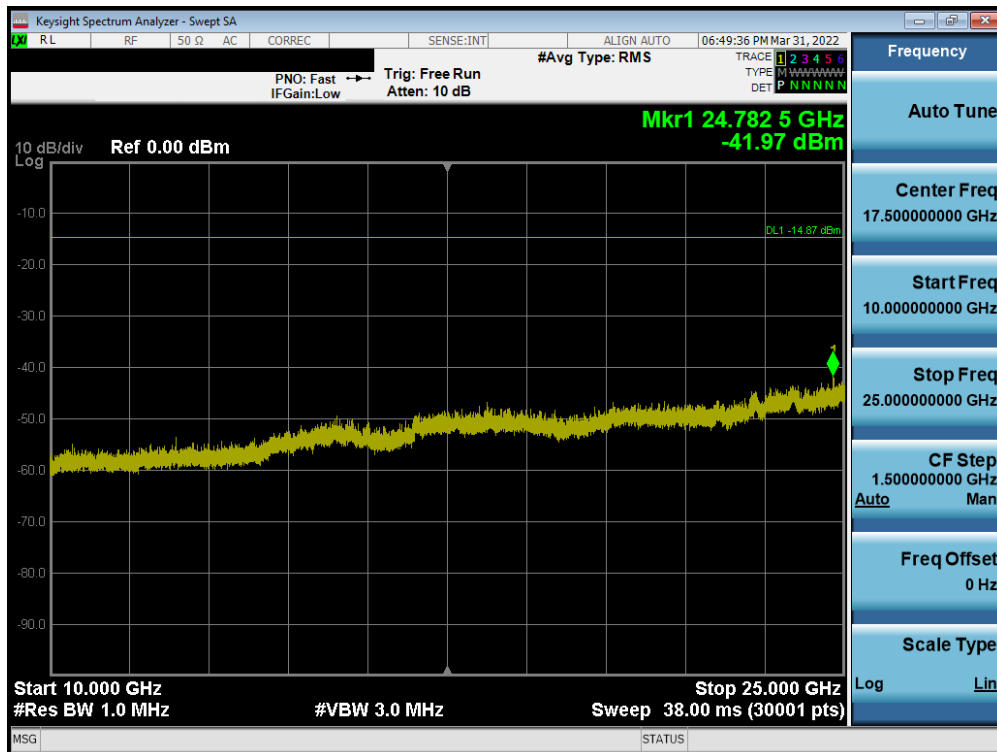
1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 30dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz 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: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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SISO Antenna-1 Conducted Spurious Emission

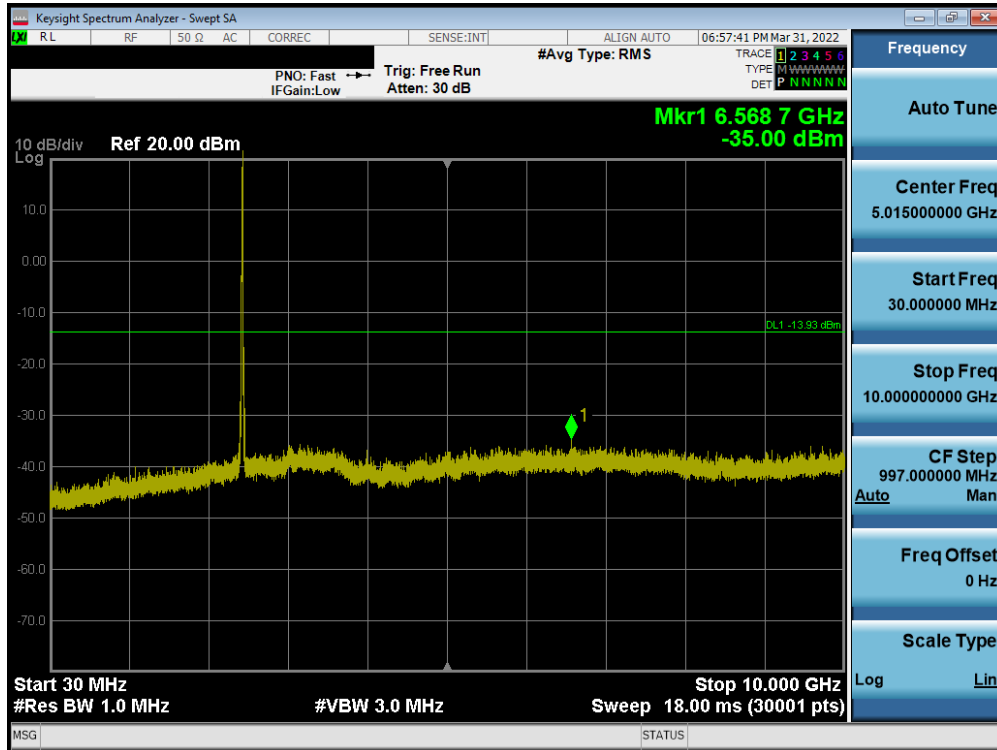


Plot 7-118. Conducted Spurious Plot SISO ANT1 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 1)

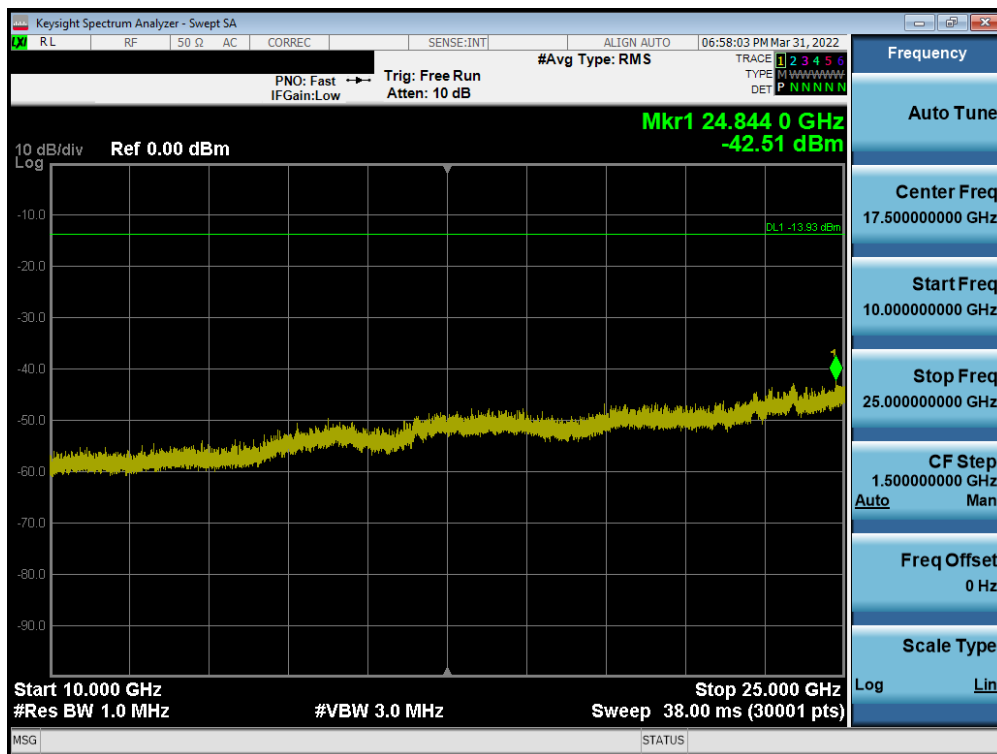


Plot 7-119. Conducted Spurious Plot SISO ANT1 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 1)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 114 of 213

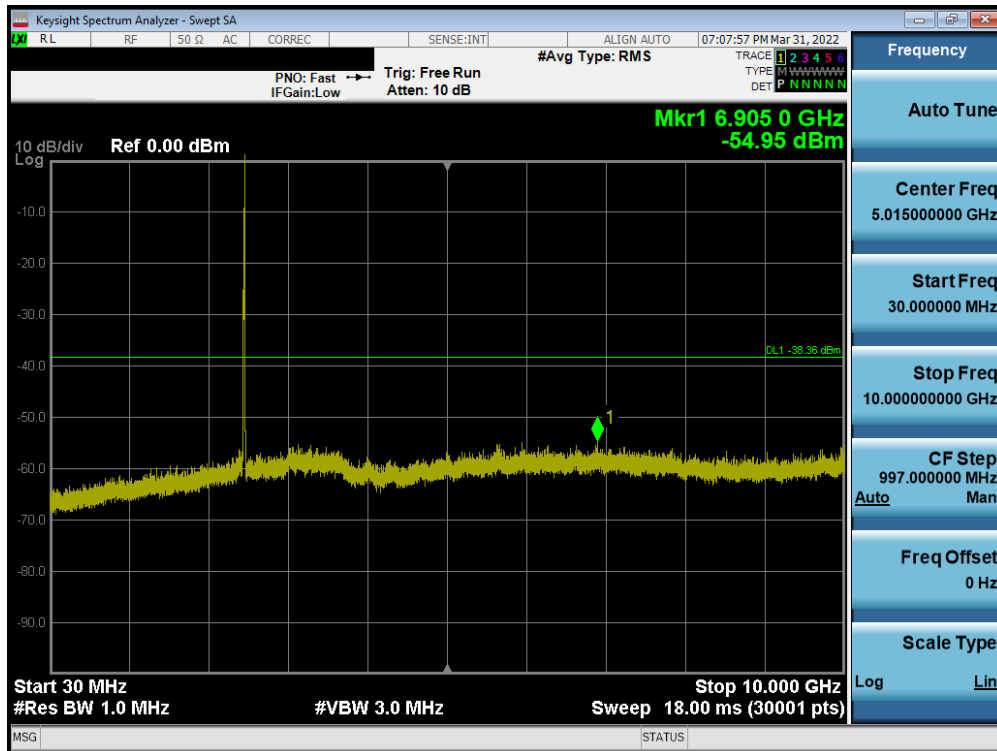


Plot 7-120. Conducted Spurious Plot SISO ANT1 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 6)

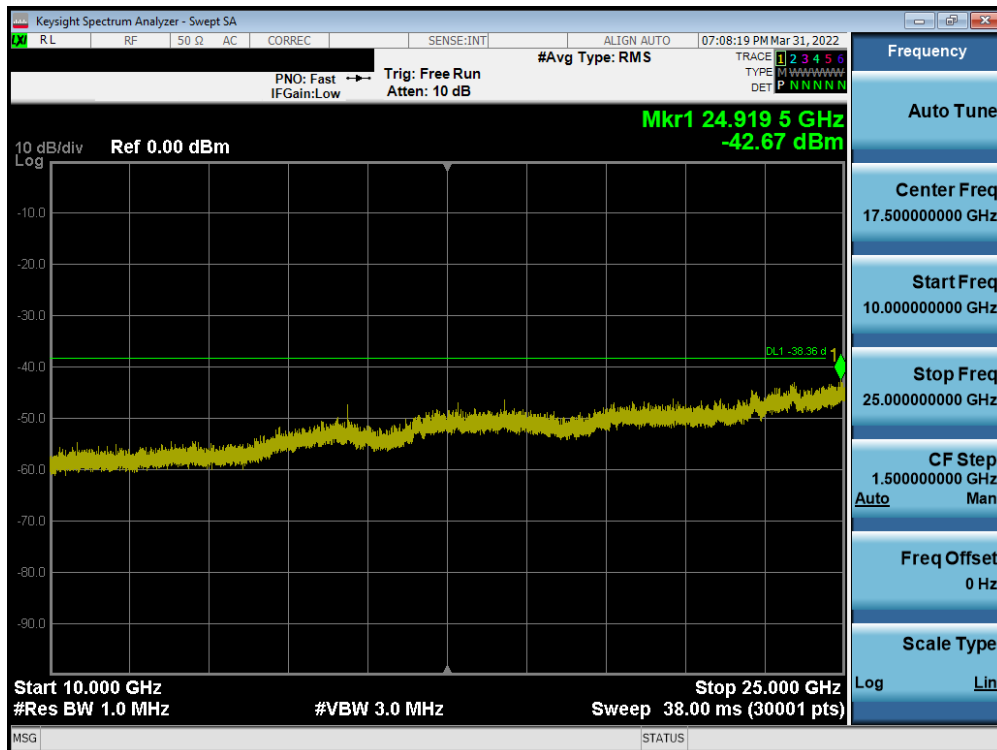


Plot 7-121. Conducted Spurious Plot SISO ANT1 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 6)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 115 of 213

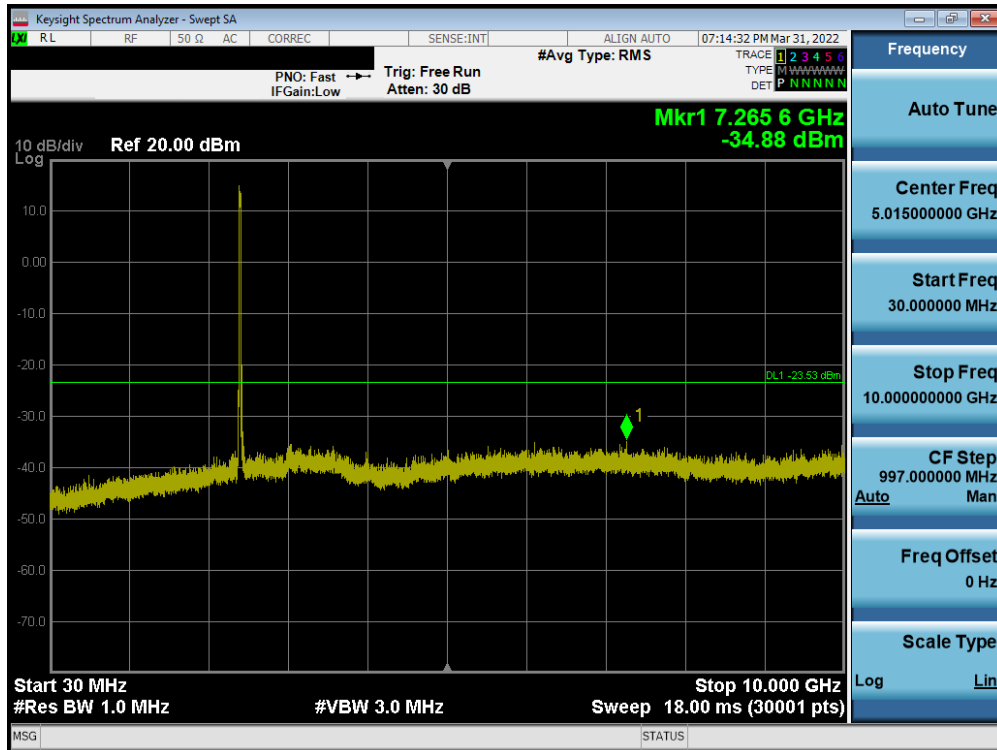


Plot 7-122. Conducted Spurious Plot SISO ANT1 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 11)

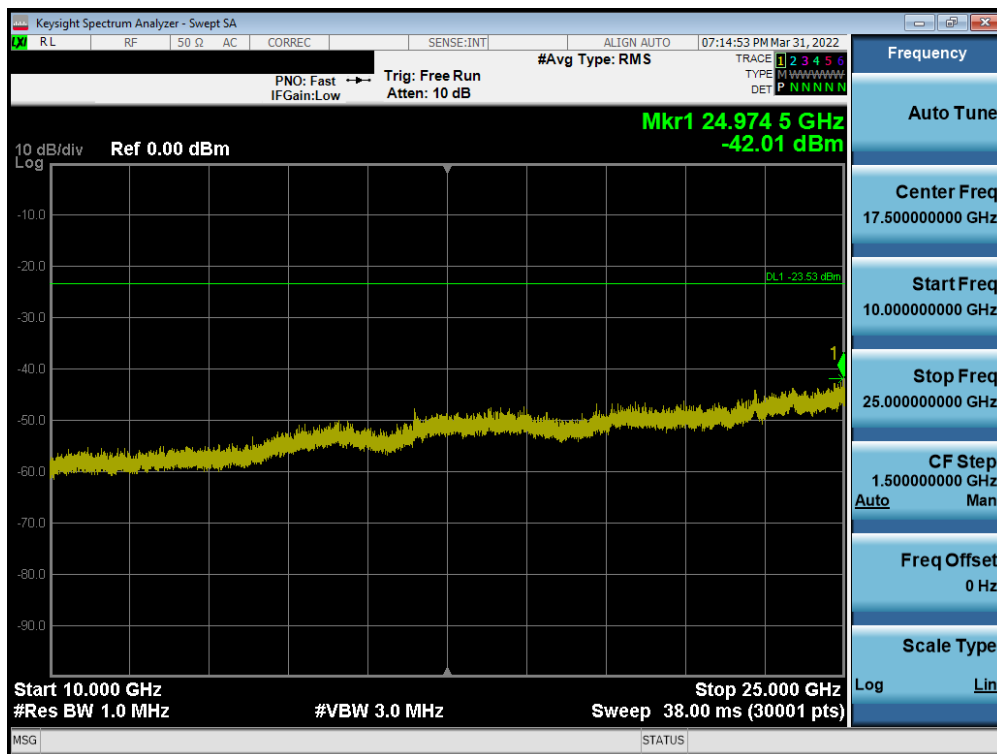


Plot 7-123. Conducted Spurious Plot SISO ANT1 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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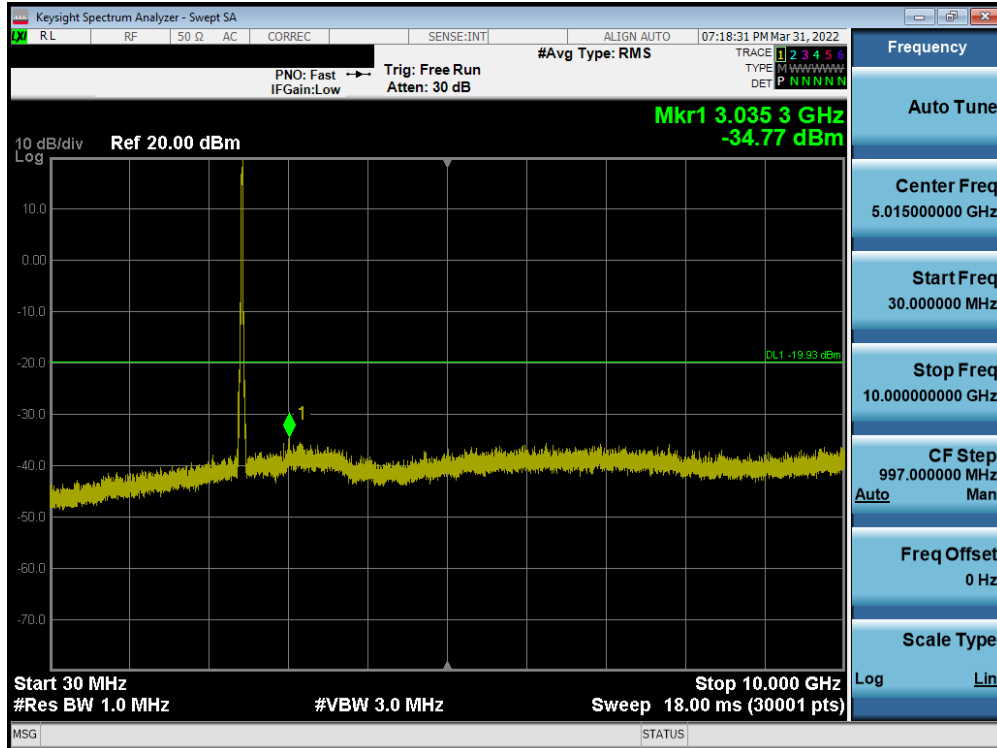


Plot 7-124. Conducted Spurious Plot SISO ANT1 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 1)

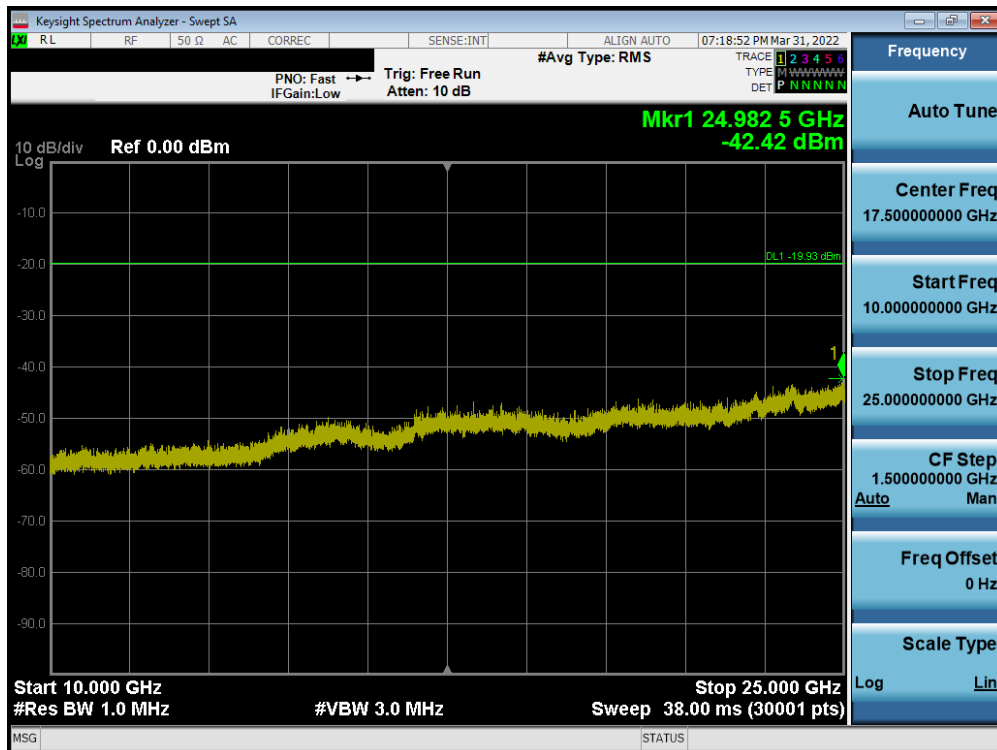


Plot 7-125. Conducted Spurious Plot SISO ANT1 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 1)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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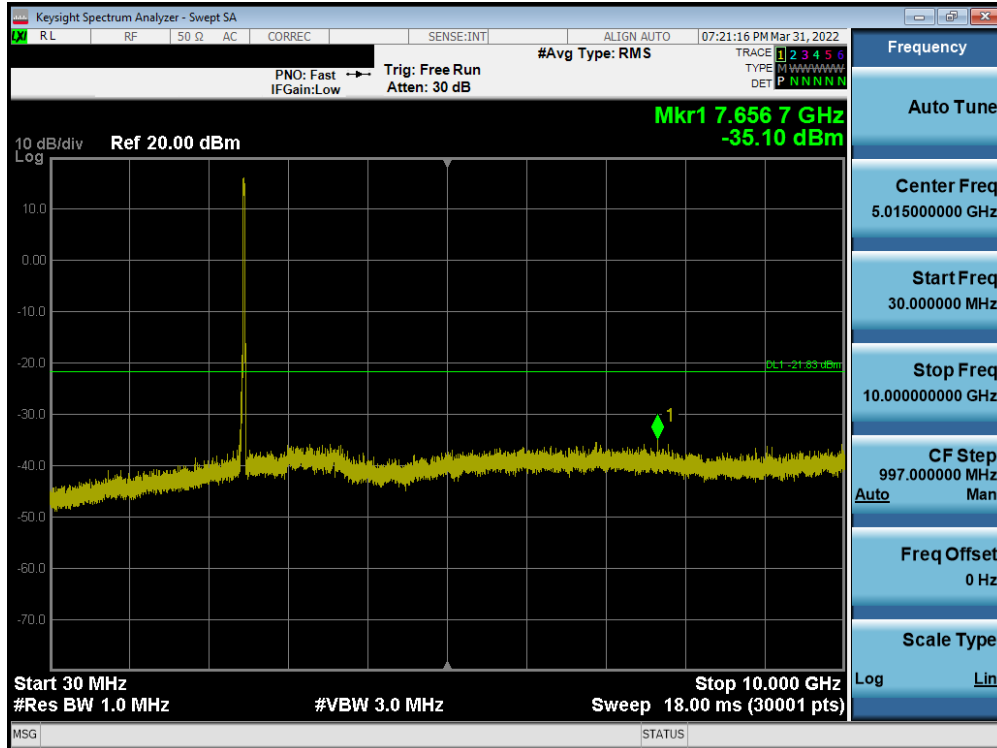


Plot 7-126. Conducted Spurious Plot SISO ANT1 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 6)

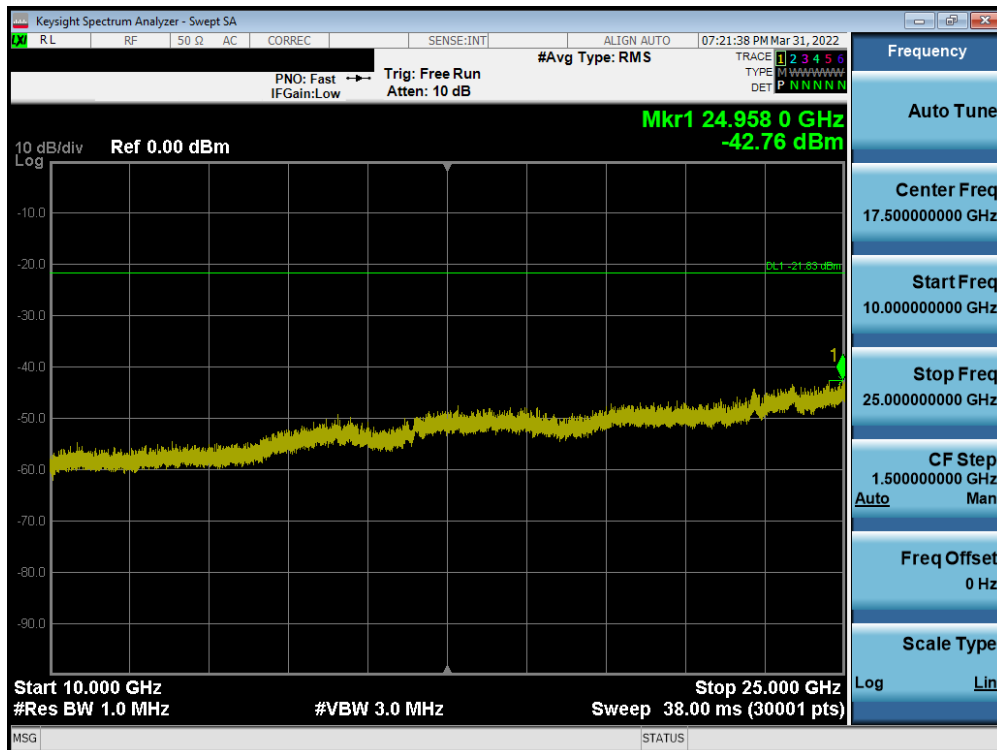


Plot 7-127. Conducted Spurious Plot SISO ANT1 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 6)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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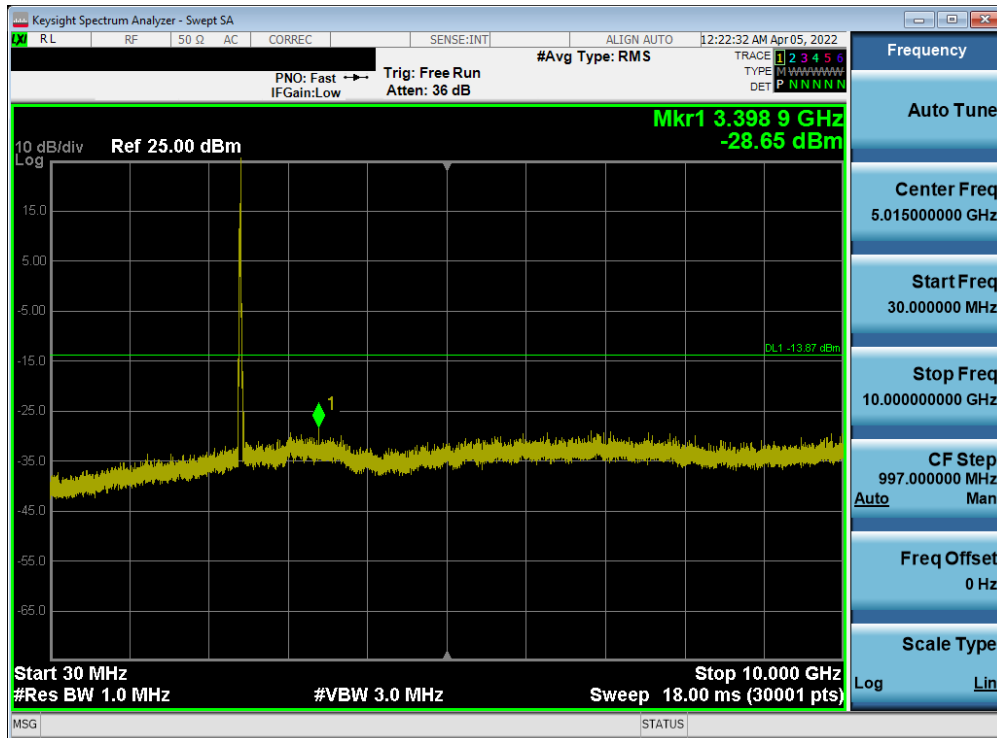


Plot 7-128. Conducted Spurious Plot SISO ANT1 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 11)

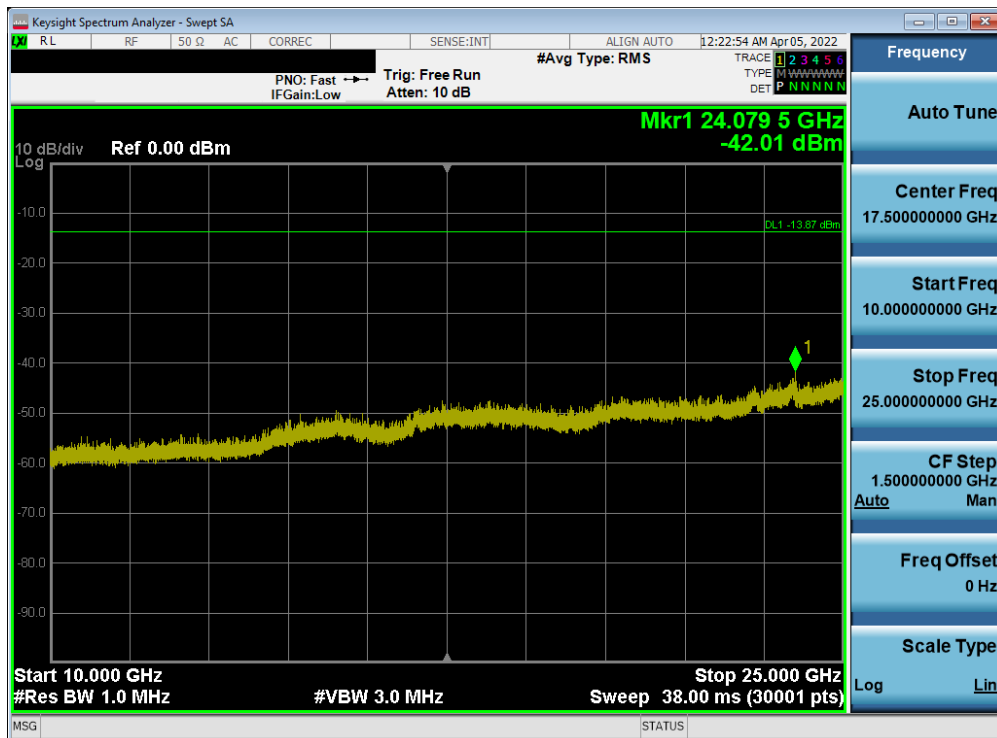


Plot 7-129. Conducted Spurious Plot SISO ANT1 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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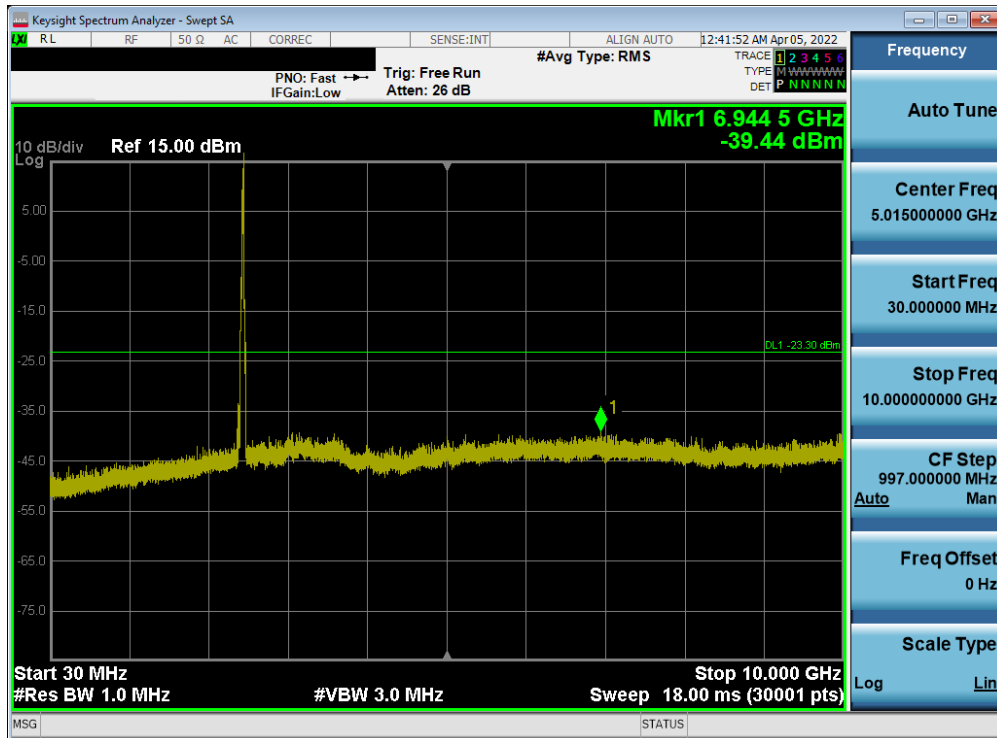


Plot 7-130. Conducted Spurious Plot SISO ANT1 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 3)

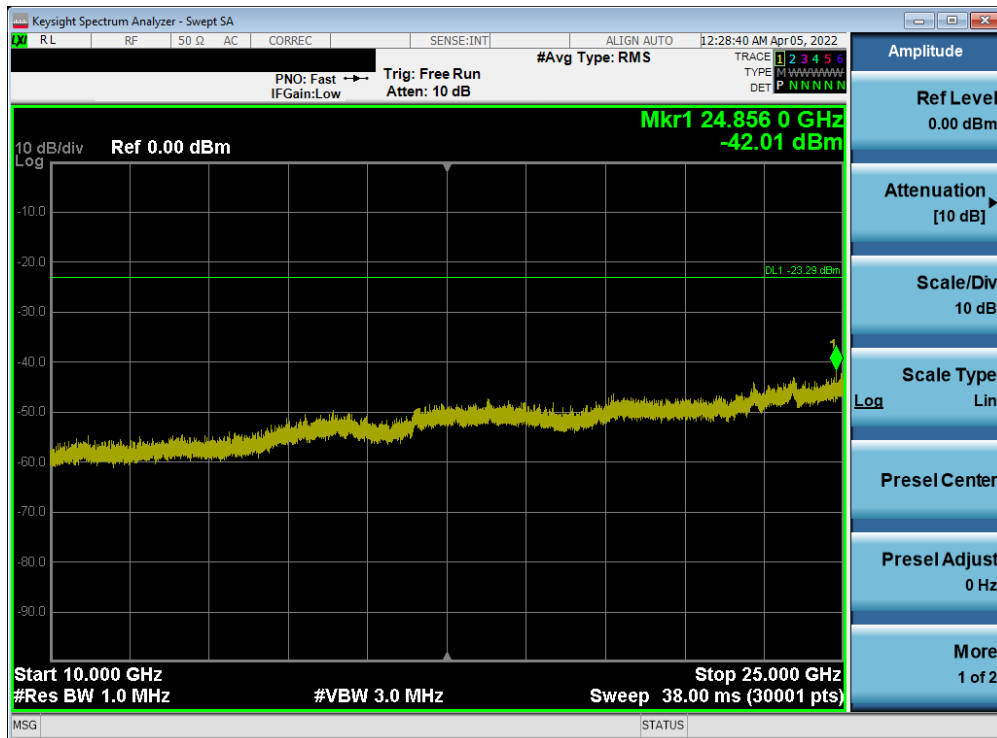


Plot 7-131. Conducted Spurious Plot SISO ANT1 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 3)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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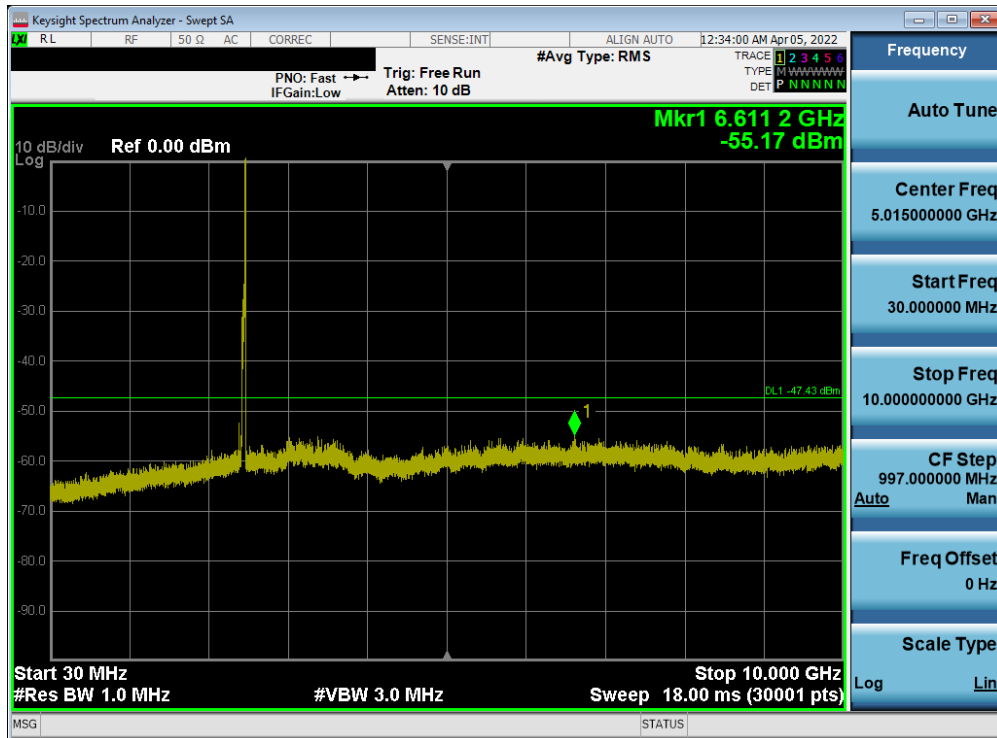


Plot 7-132. Conducted Spurious Plot SISO ANT1 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 7)

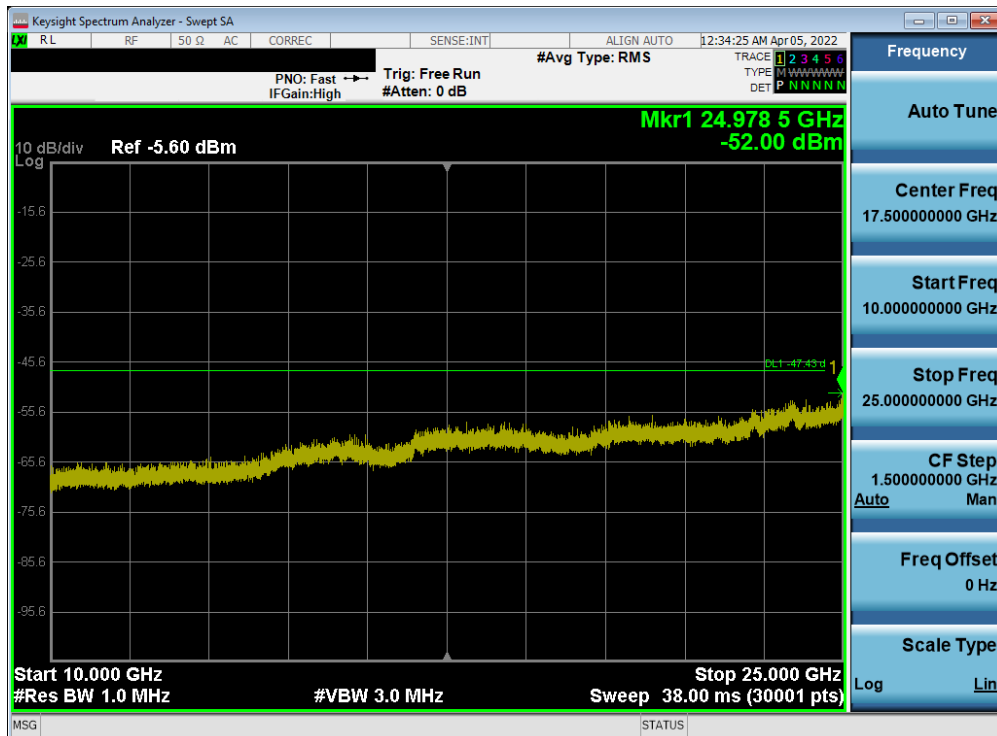


Plot 7-133. Conducted Spurious Plot SISO ANT1 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 7)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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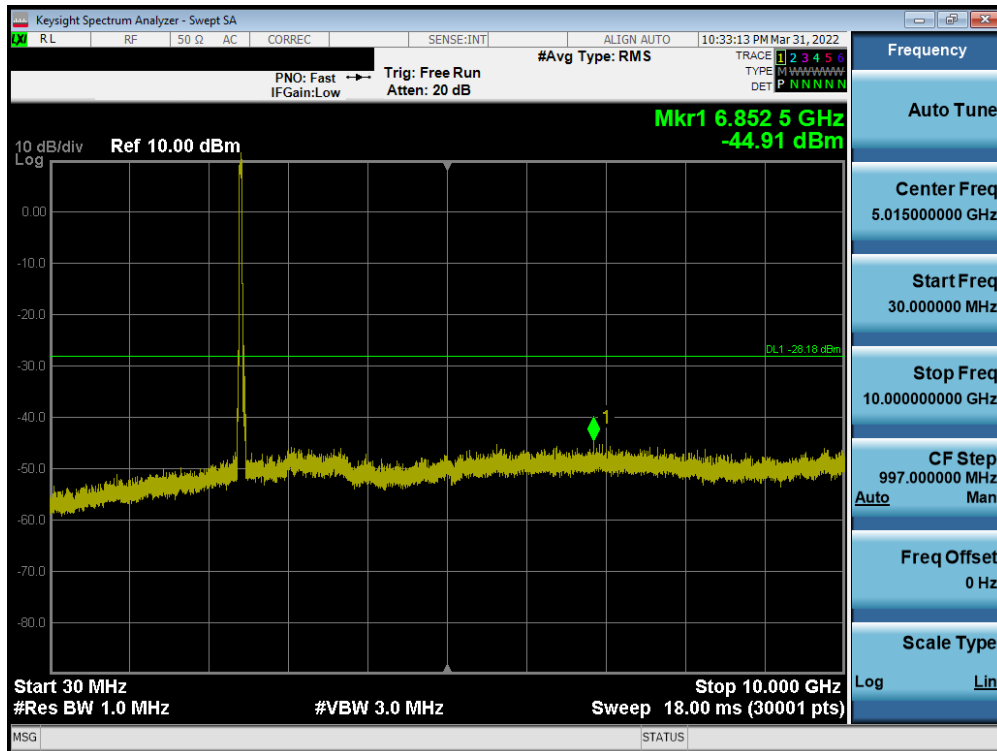


Plot 7-134. Conducted Spurious Plot SISO ANT1 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 11)

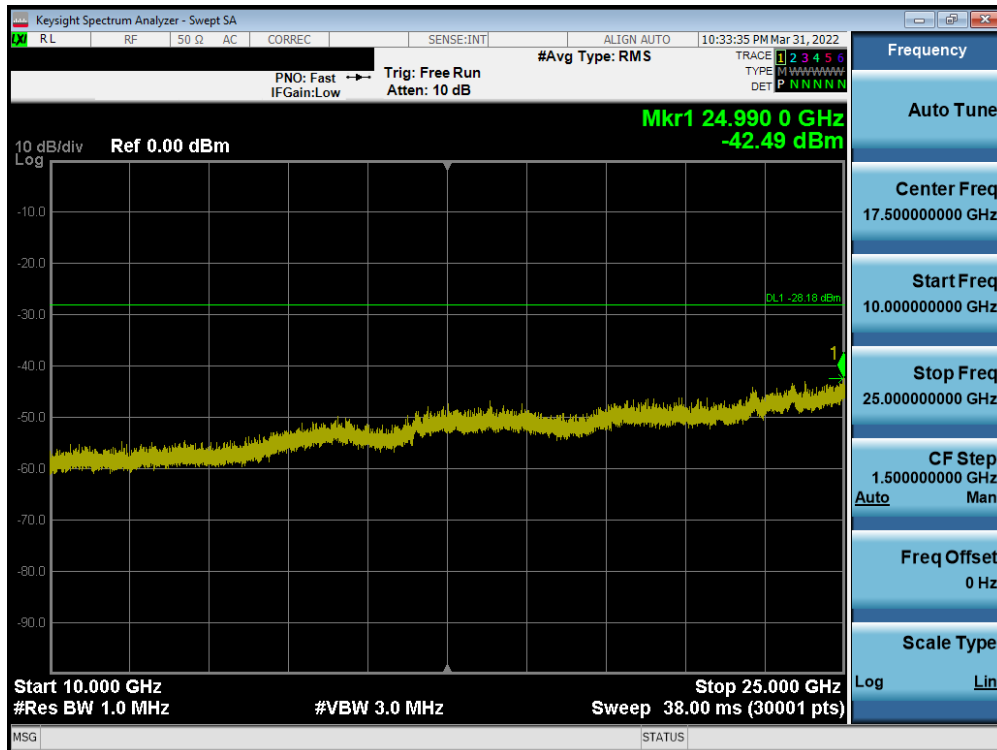


Plot 7-135. Conducted Spurious Plot SISO ANT1 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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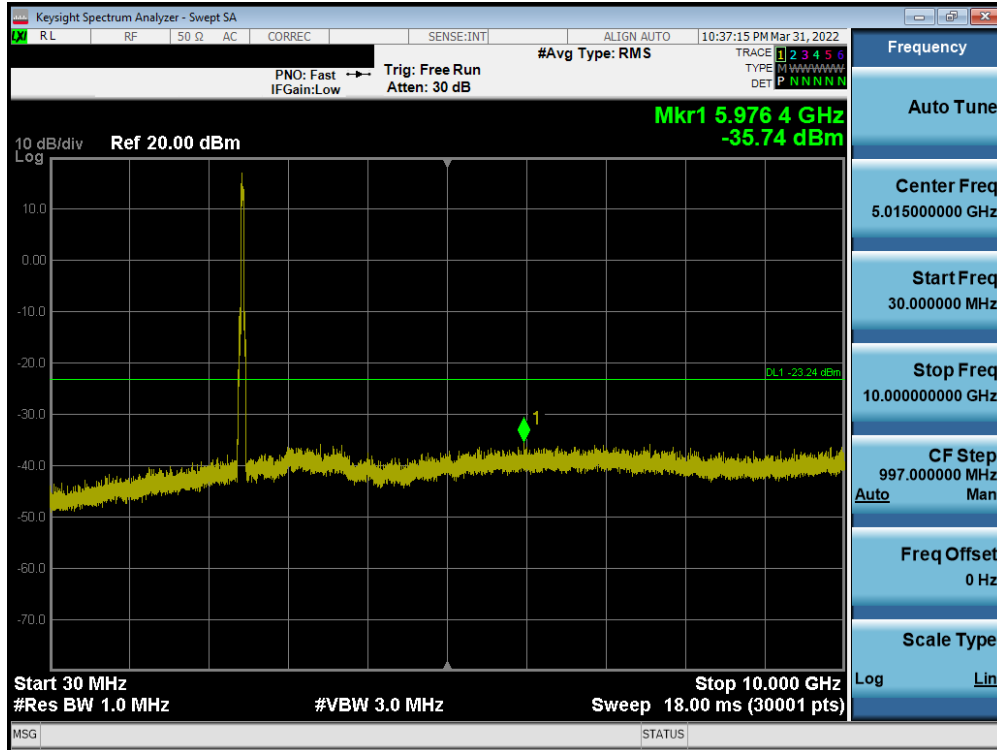


Plot 7-136. Conducted Spurious Plot SISO ANT1 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 3)

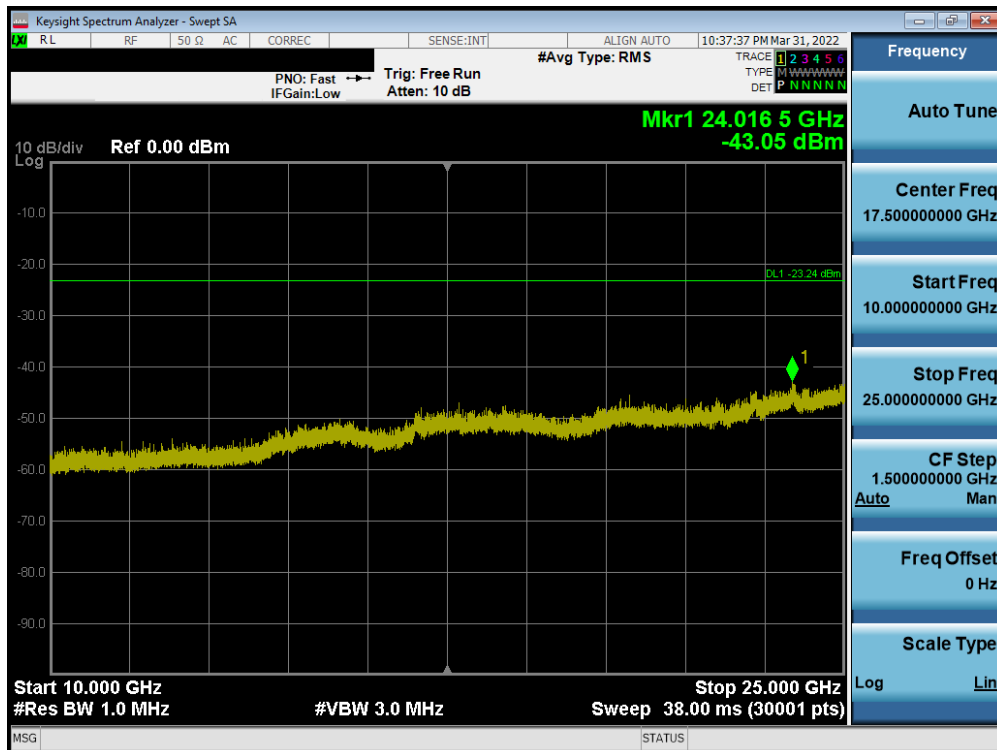


Plot 7-137. Conducted Spurious Plot SISO ANT1 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 3)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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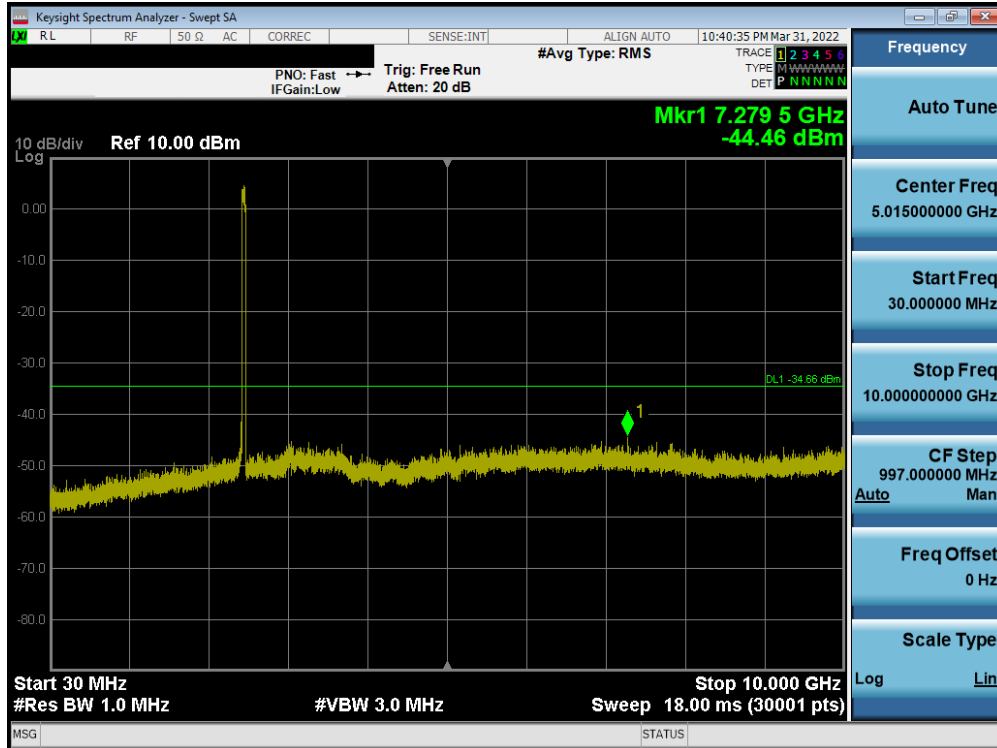


Plot 7-138. Conducted Spurious Plot SISO ANT1 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 7)

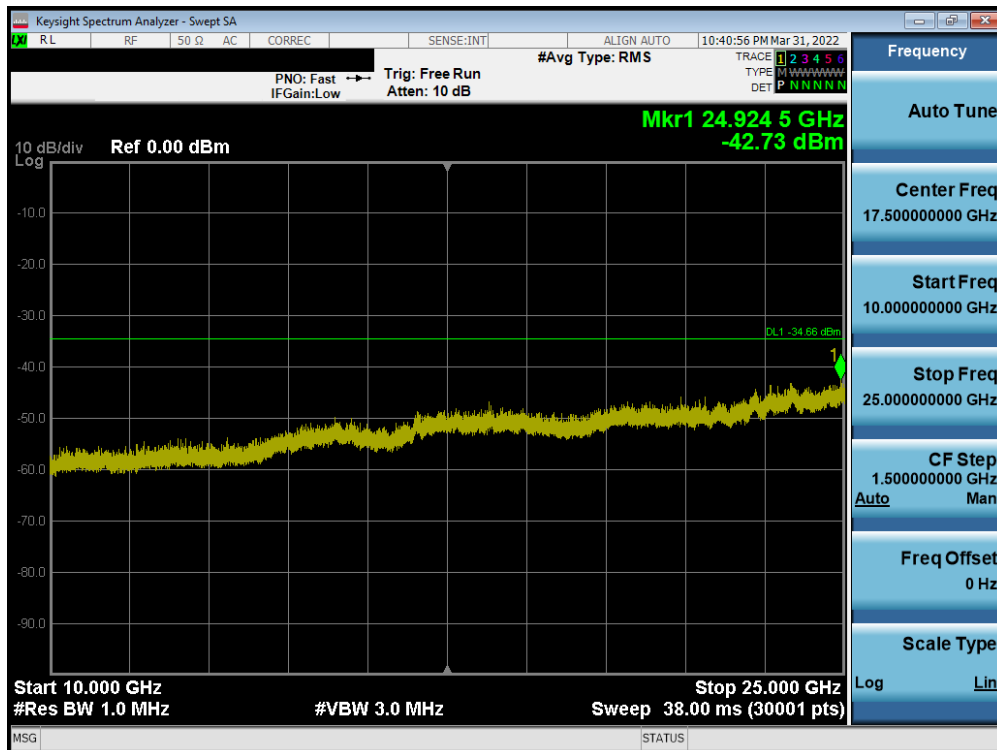


Plot 7-139. Conducted Spurious Plot SISO ANT1 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 7)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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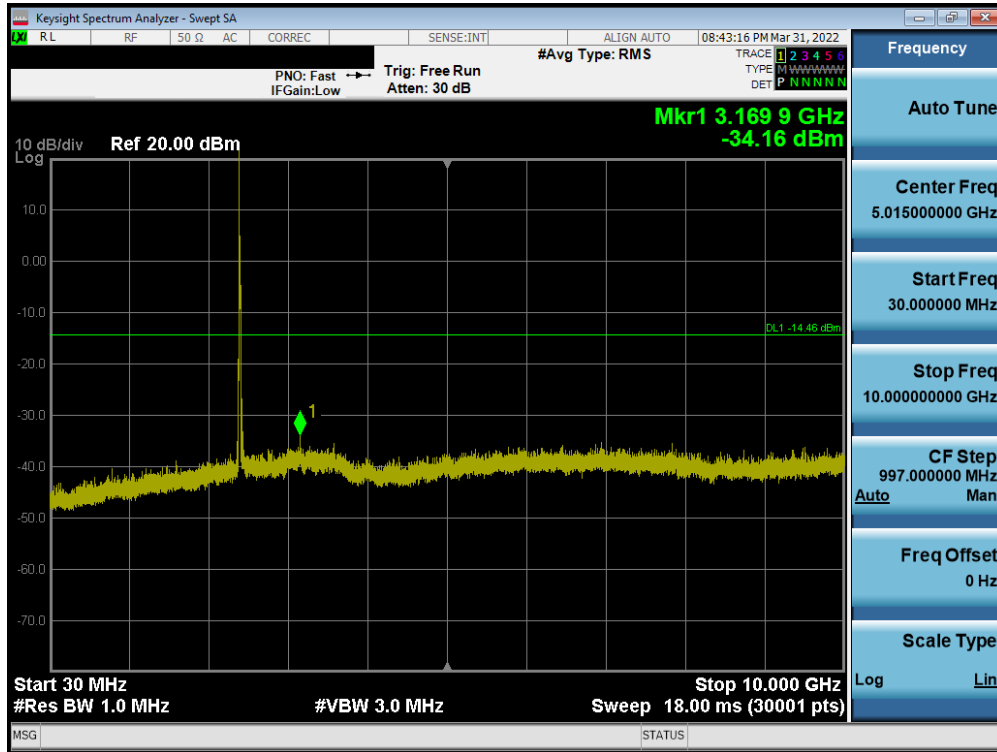
Plot 7-140. Conducted Spurious Plot SISO ANT1 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 11)



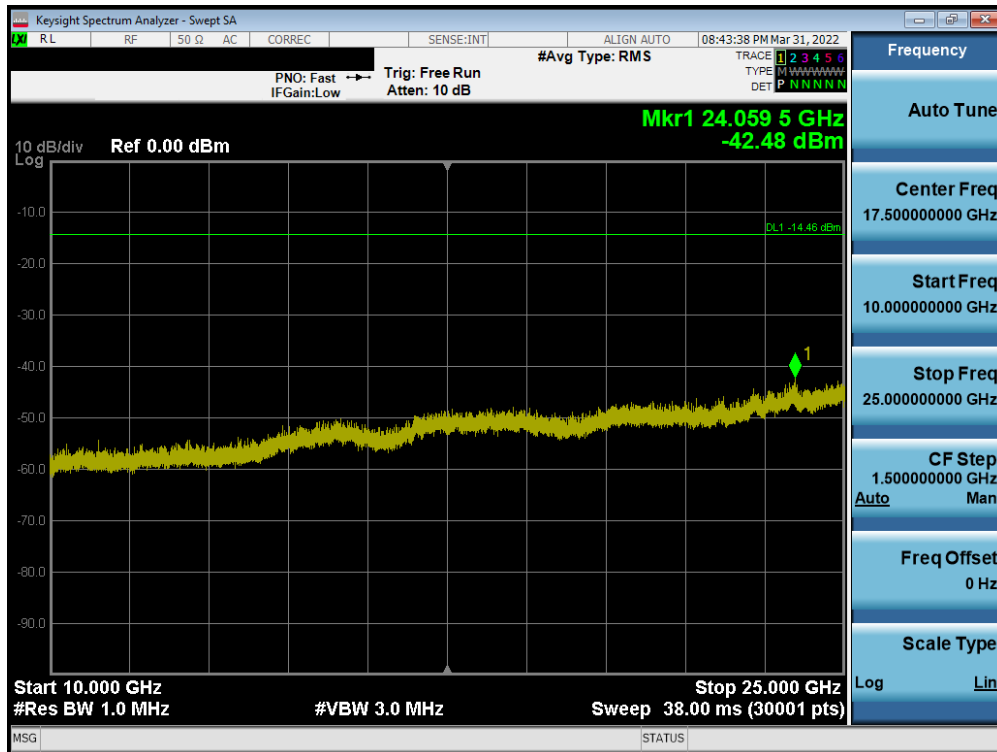
Plot 7-141. Conducted Spurious Plot SISO ANT1 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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SISO Antenna-2 Conducted Spurious Emissions

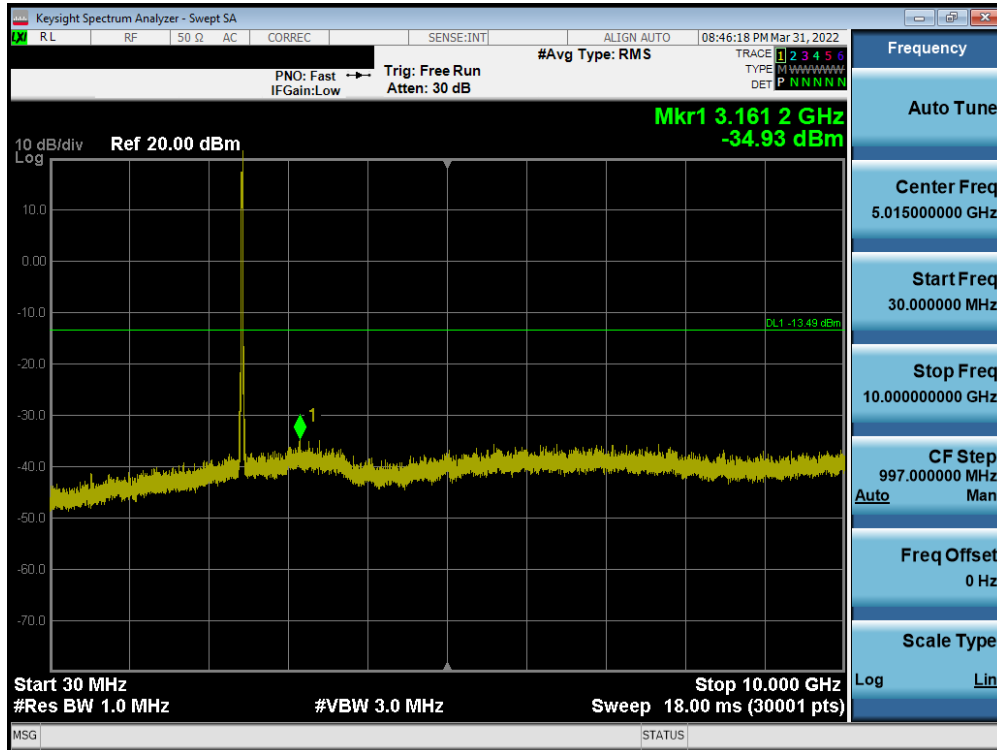


Plot 7-142. Conducted Spurious Plot SISO ANT2 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 1)

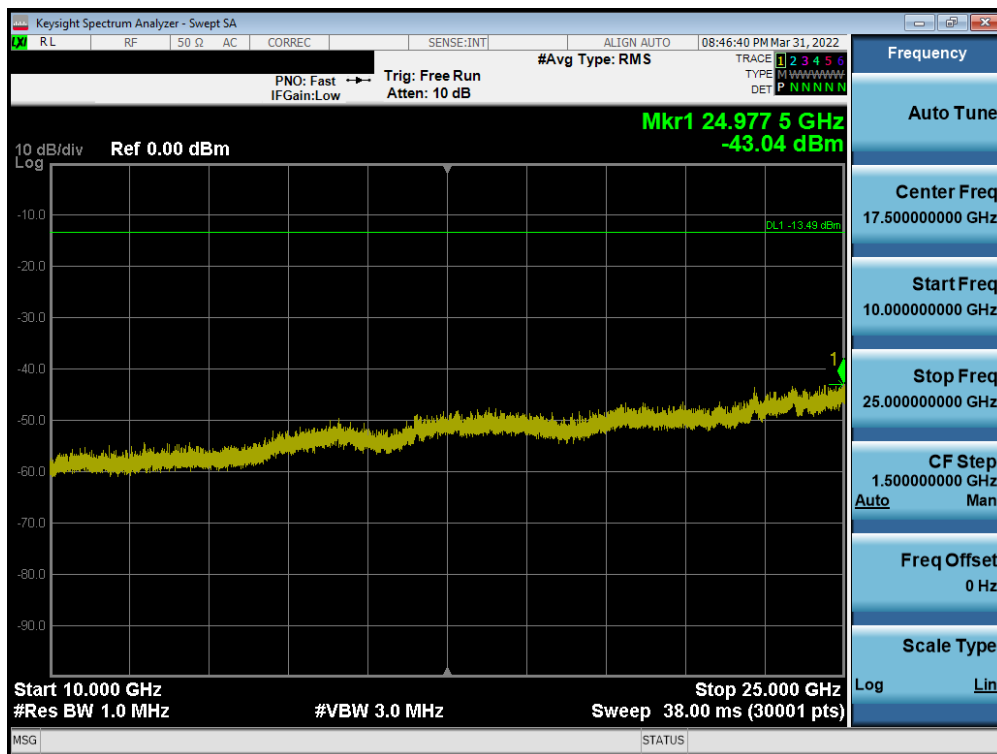


Plot 7-143. Conducted Spurious Plot SISO ANT2 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 1)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 126 of 213

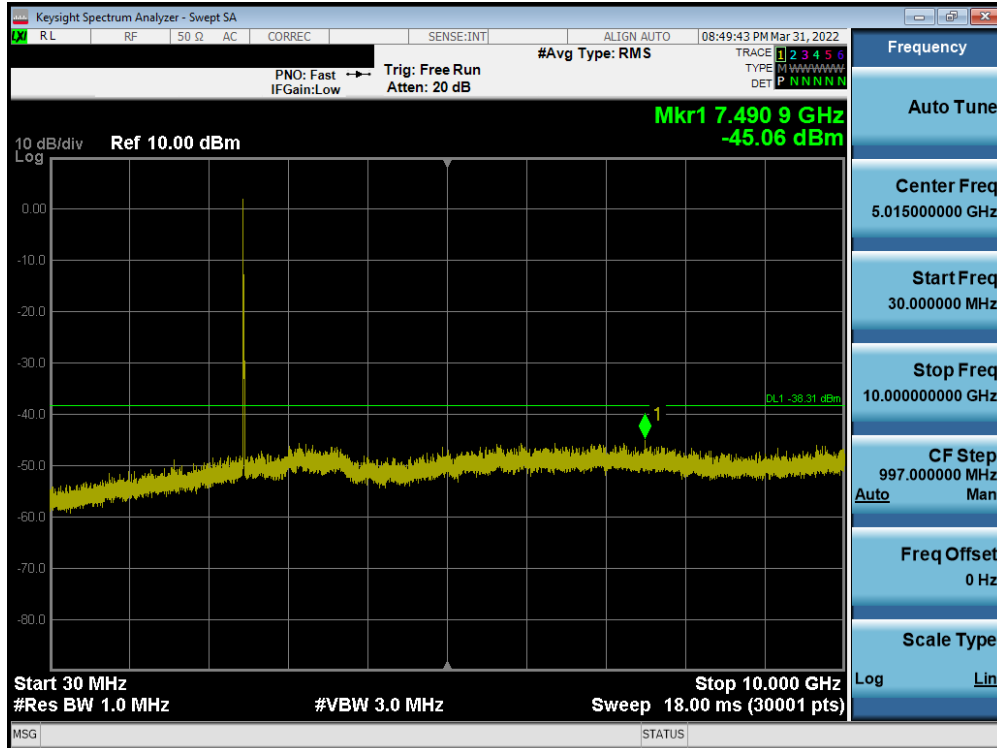


Plot 7-144. Conducted Spurious Plot SISO ANT2 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 6)

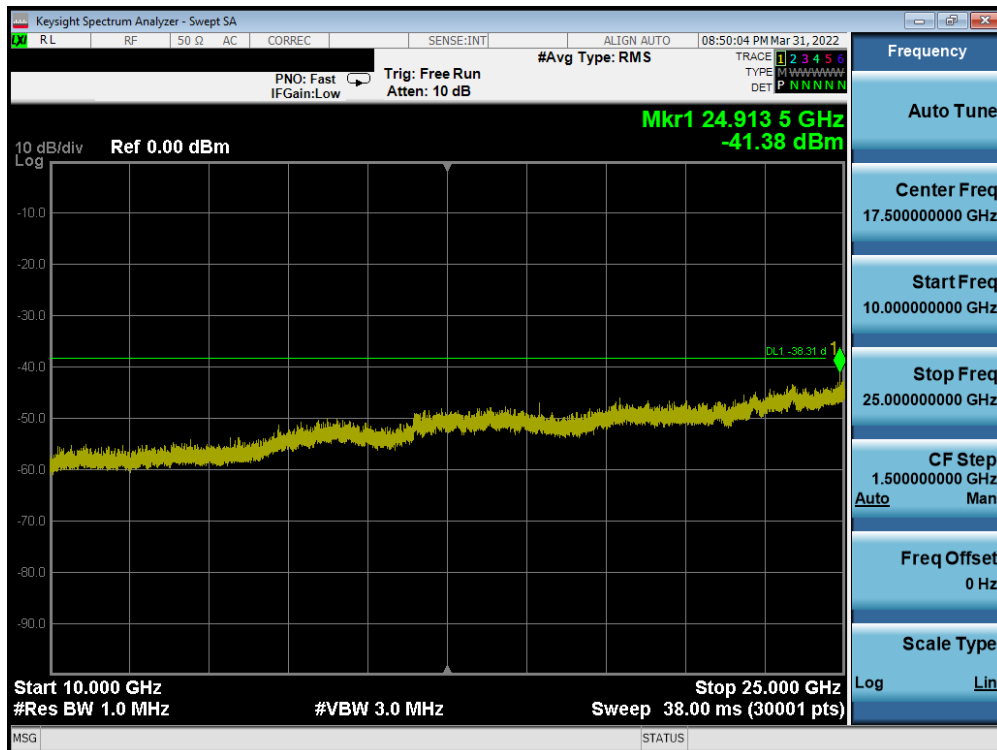


Plot 7-145. Conducted Spurious Plot SISO ANT2 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 6)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 127 of 213

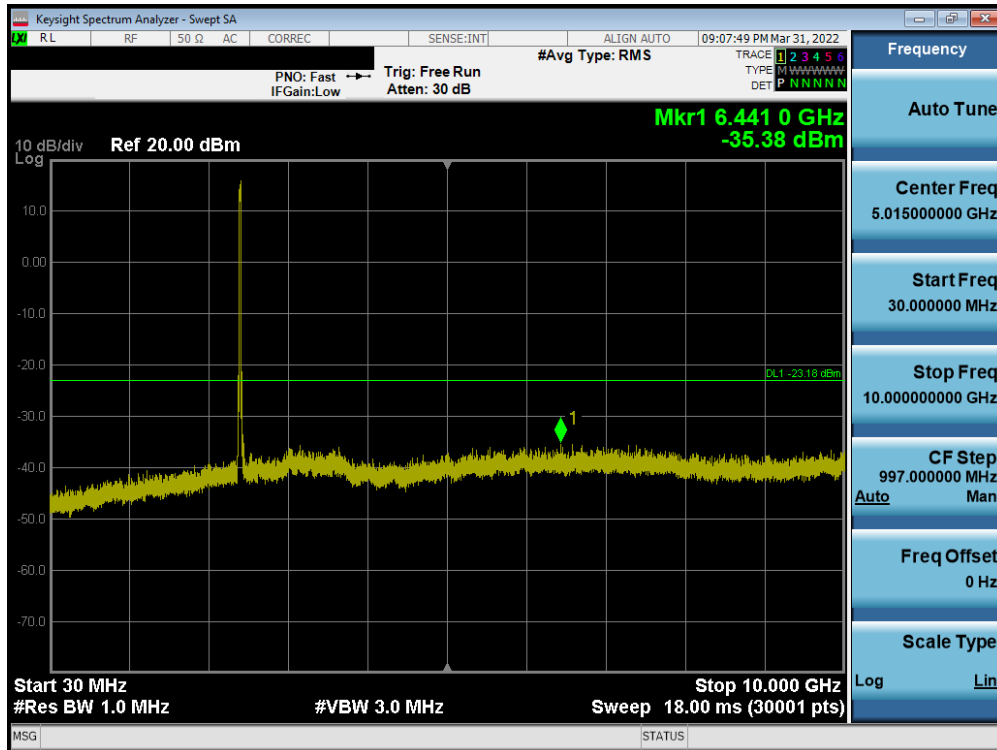


Plot 7-146. Conducted Spurious Plot SISO ANT2 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 11)

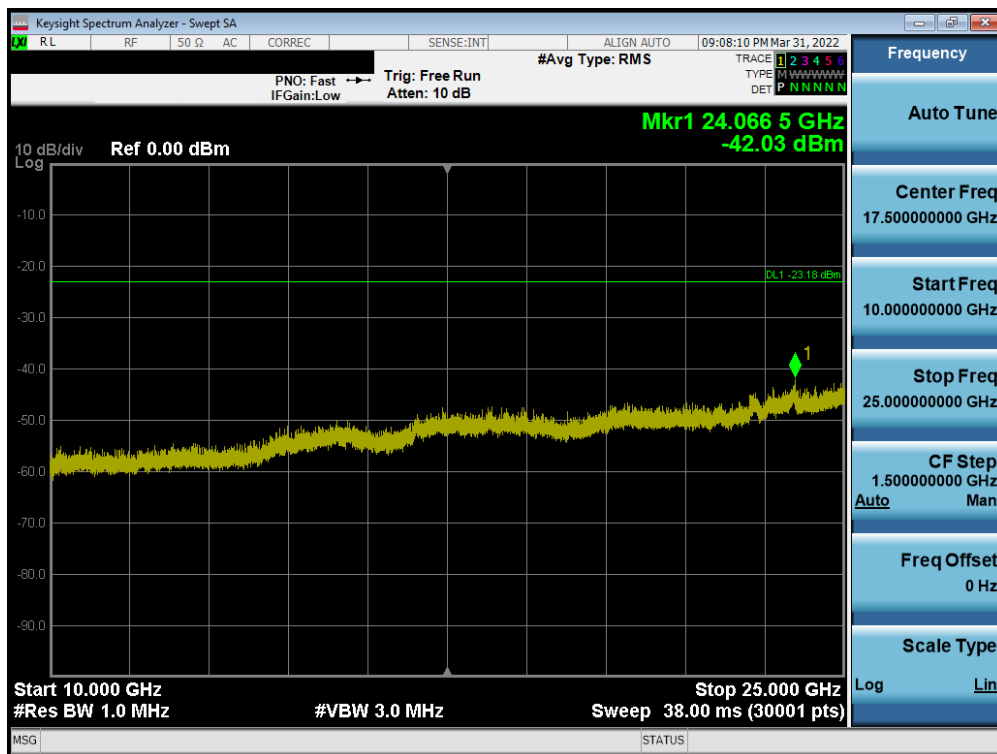


Plot 7-147. Conducted Spurious Plot SISO ANT2 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 128 of 213

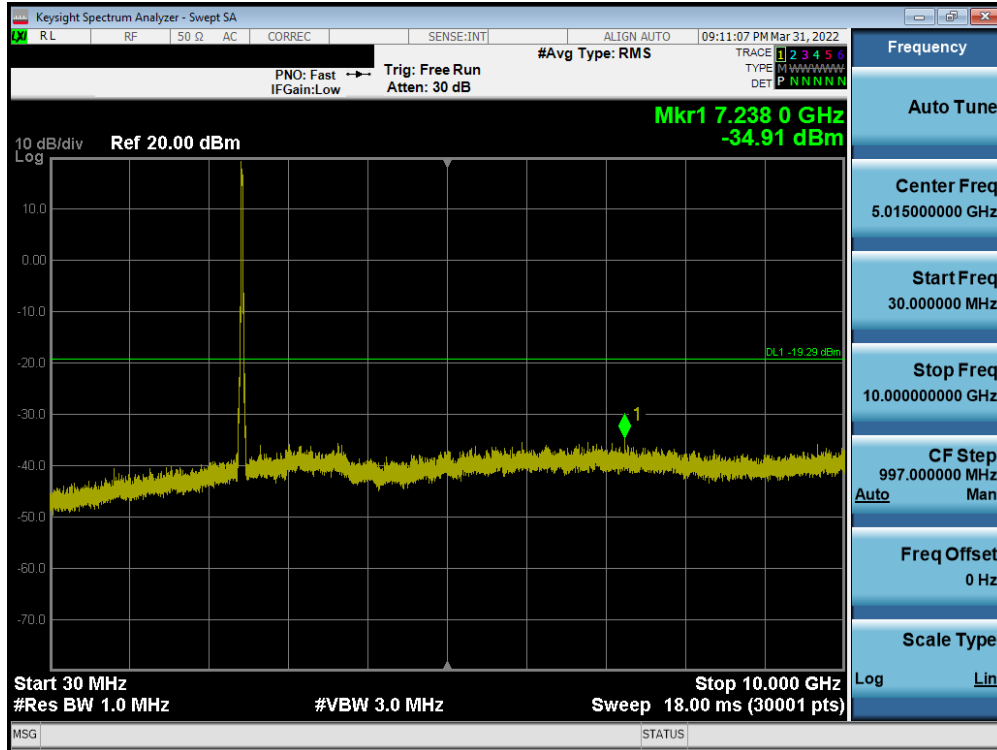


Plot 7-148. Conducted Spurious Plot SISO ANT2 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 1)

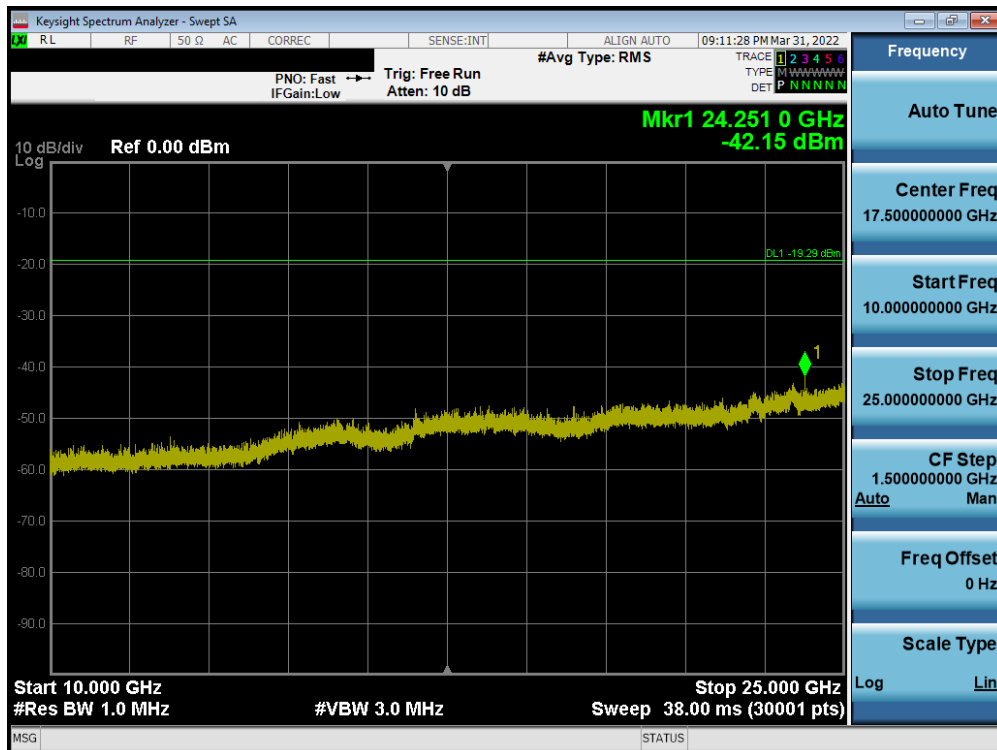


Plot 7-149. Conducted Spurious Plot SISO ANT2 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 1)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 129 of 213

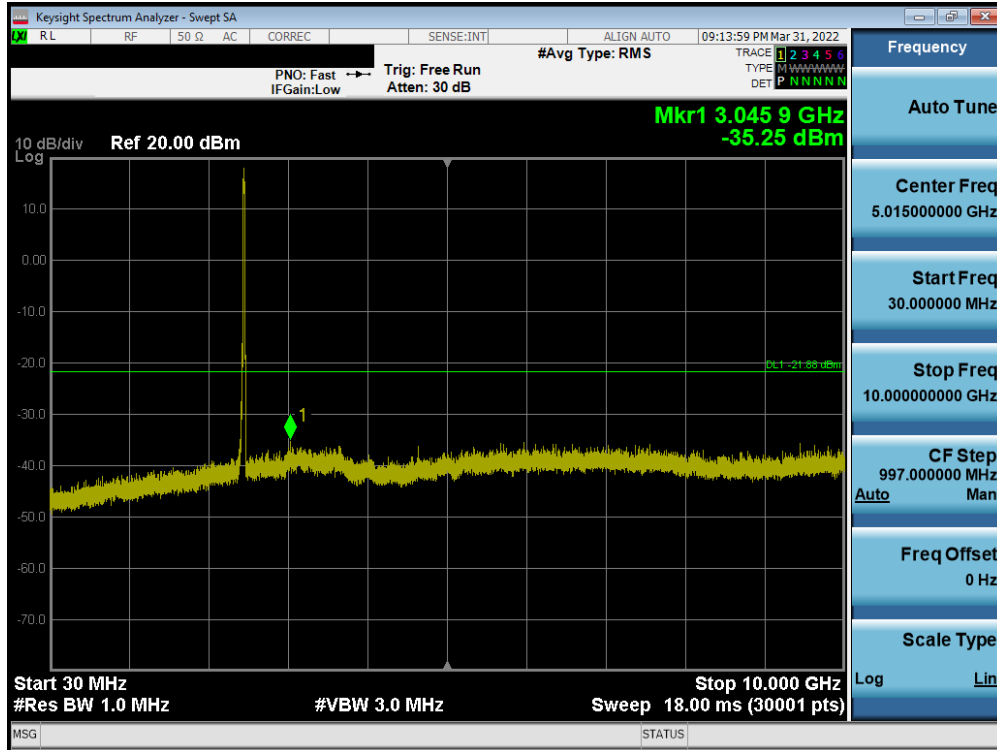


Plot 7-150. Conducted Spurious Plot SISO ANT2 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 6)

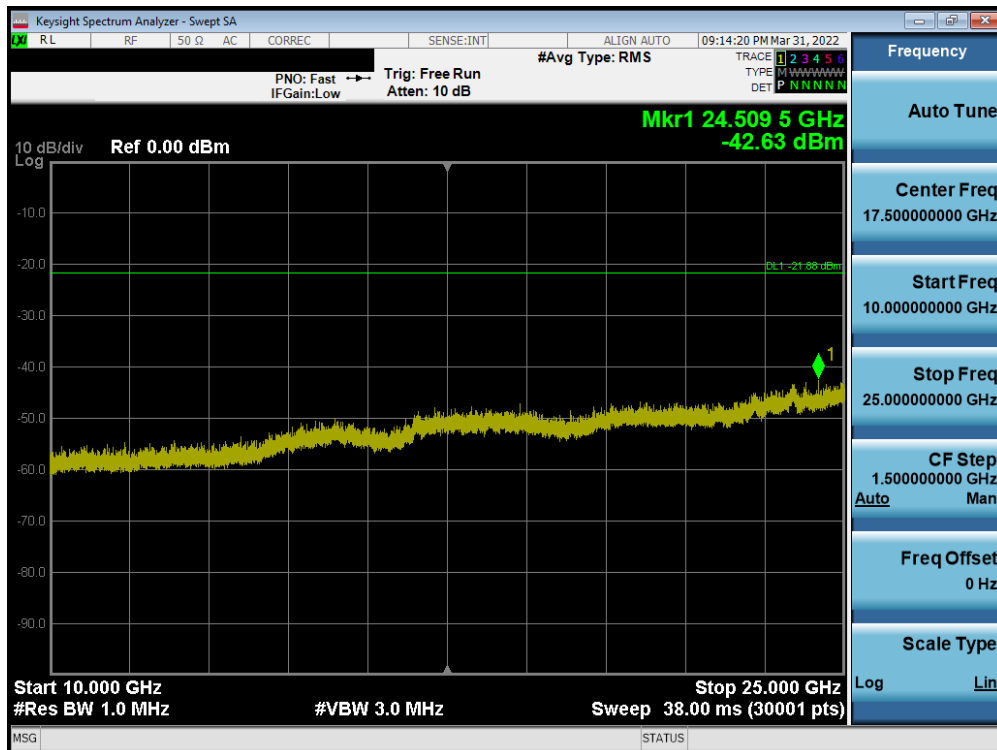


Plot 7-151. Conducted Spurious Plot SISO ANT2 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 6)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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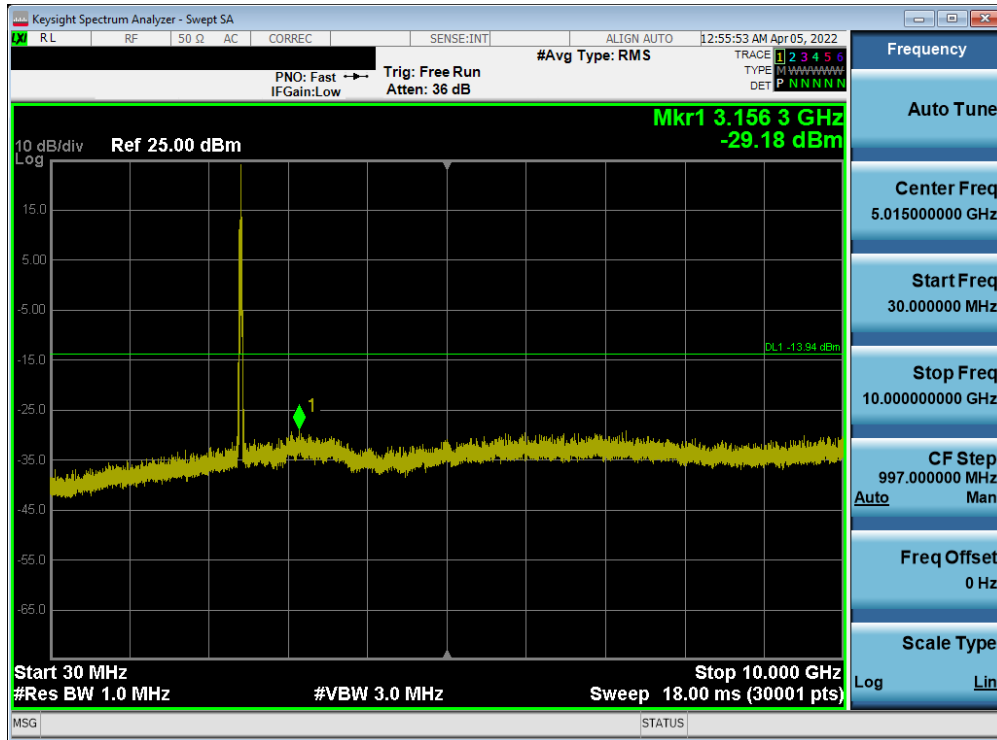


Plot 7-152. Conducted Spurious Plot SISO ANT2 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 11)

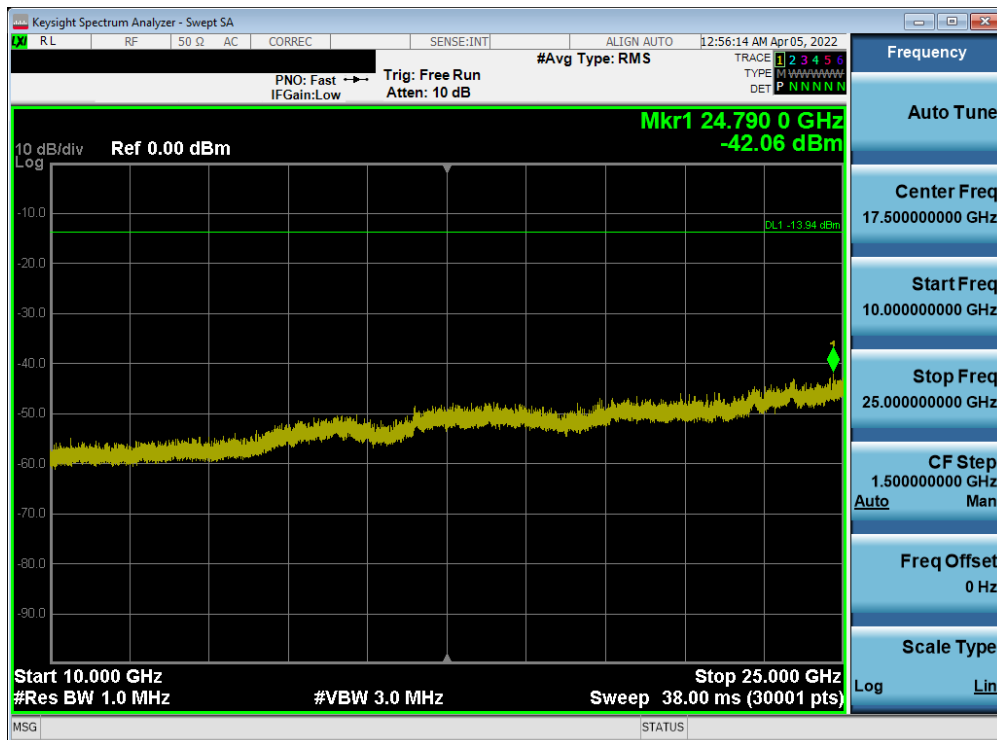


Plot 7-153. Conducted Spurious Plot SISO ANT2 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 131 of 213

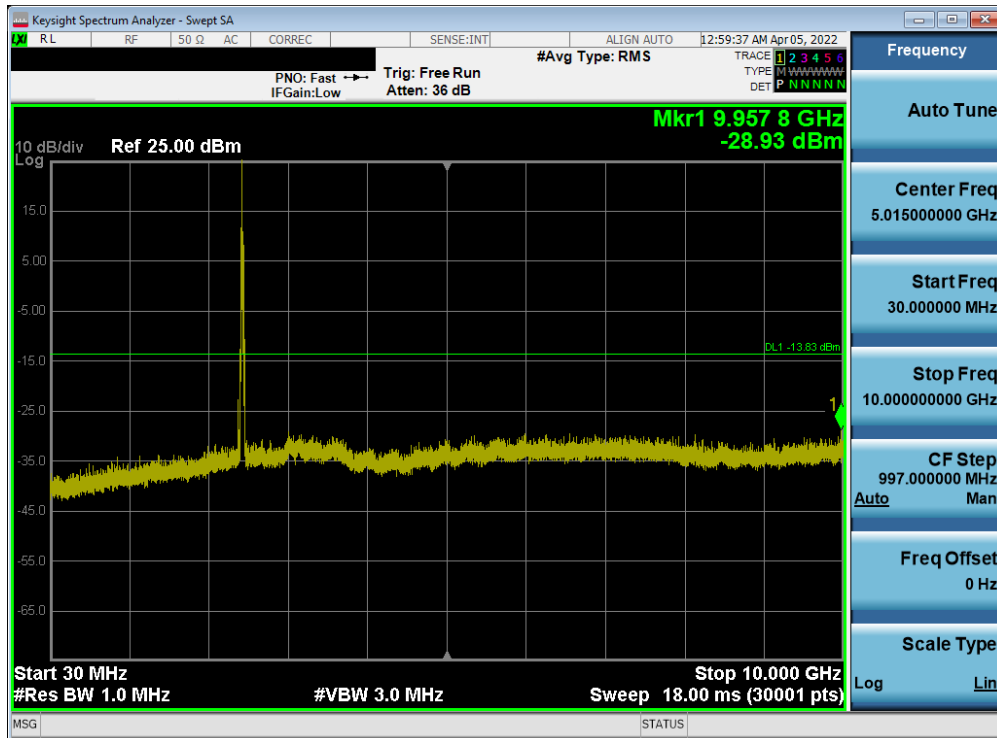


Plot 7-154. Conducted Spurious Plot SISO ANT2 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 3)

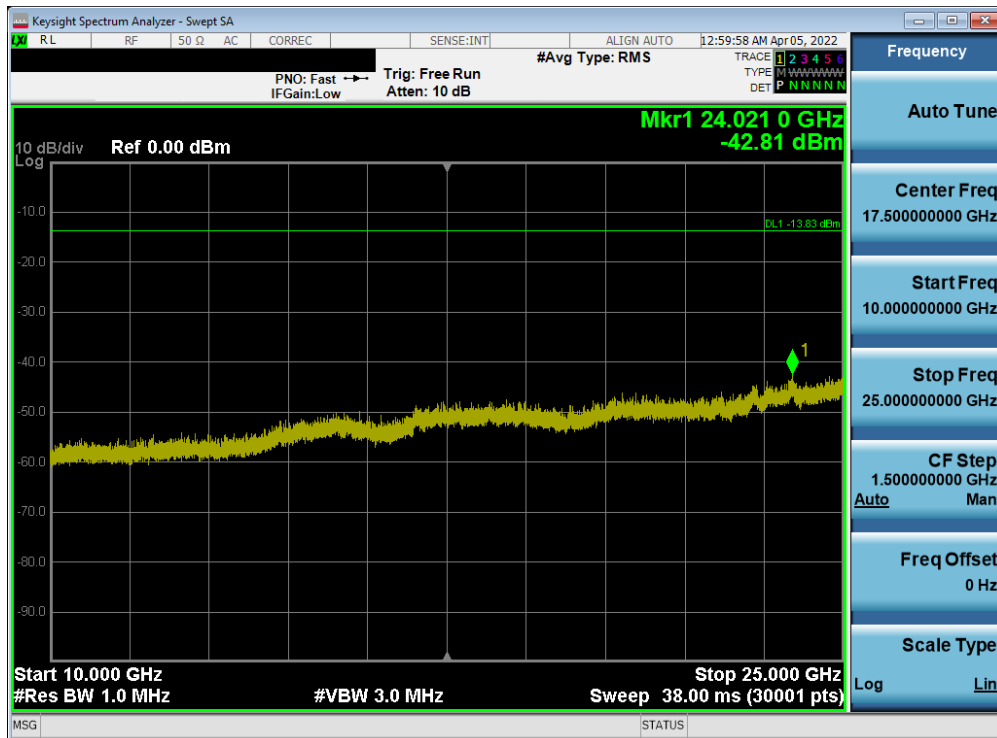


Plot 7-155. Conducted Spurious Plot SISO ANT2 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 3)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 132 of 213

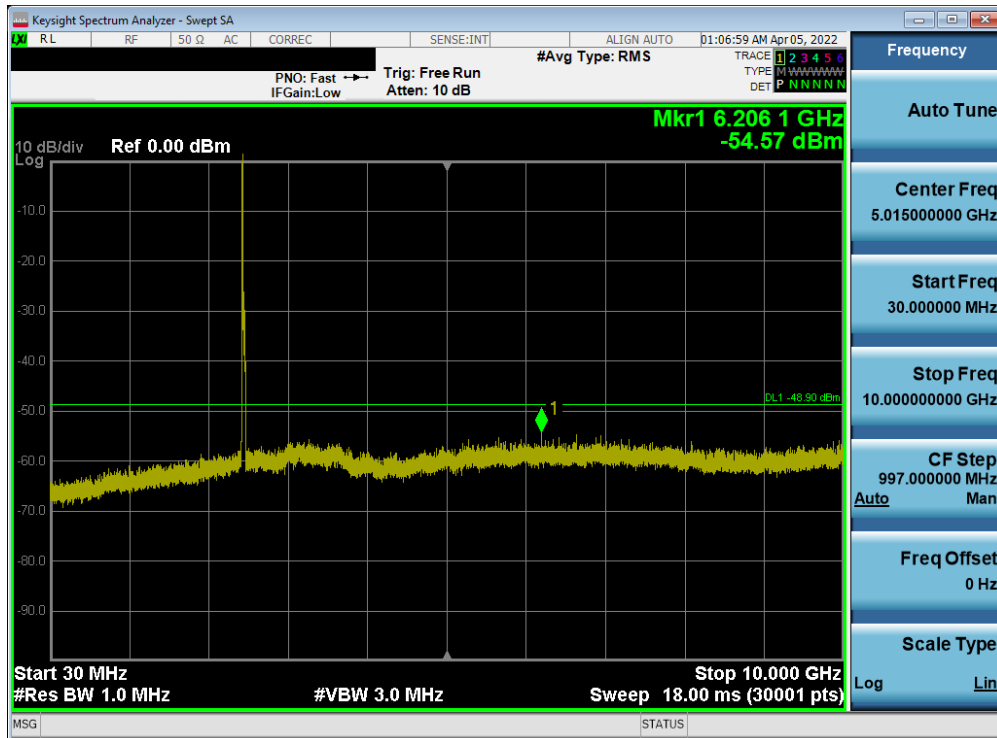


Plot 7-156. Conducted Spurious Plot SISO ANT2 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 7)

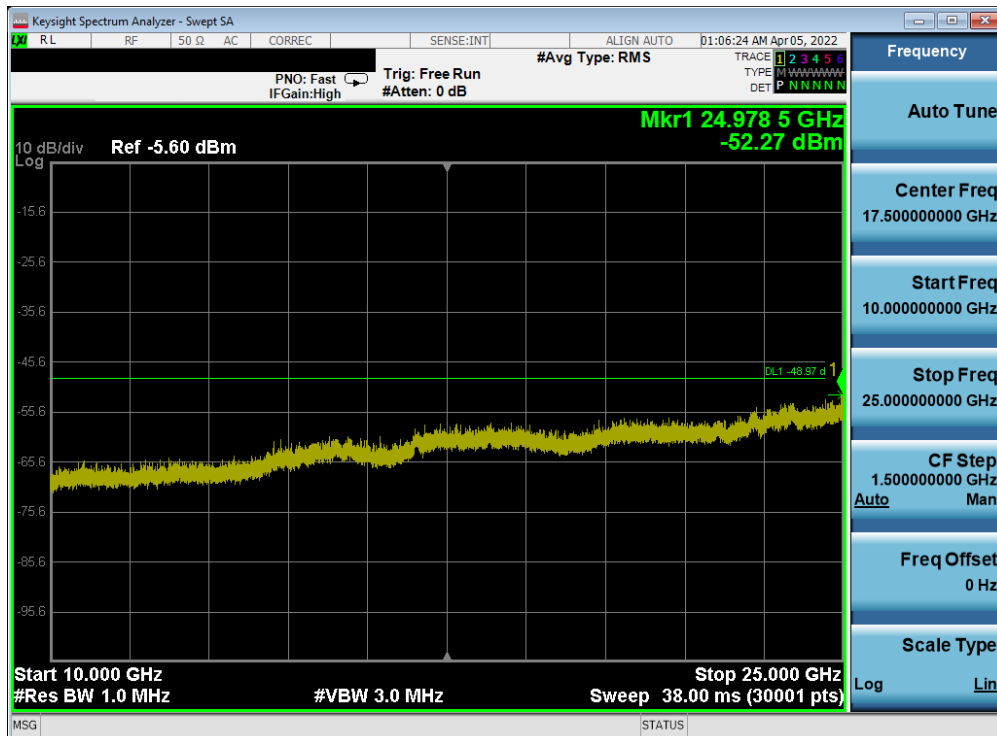


Plot 7-157. Conducted Spurious Plot SISO ANT2 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 7)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 133 of 213

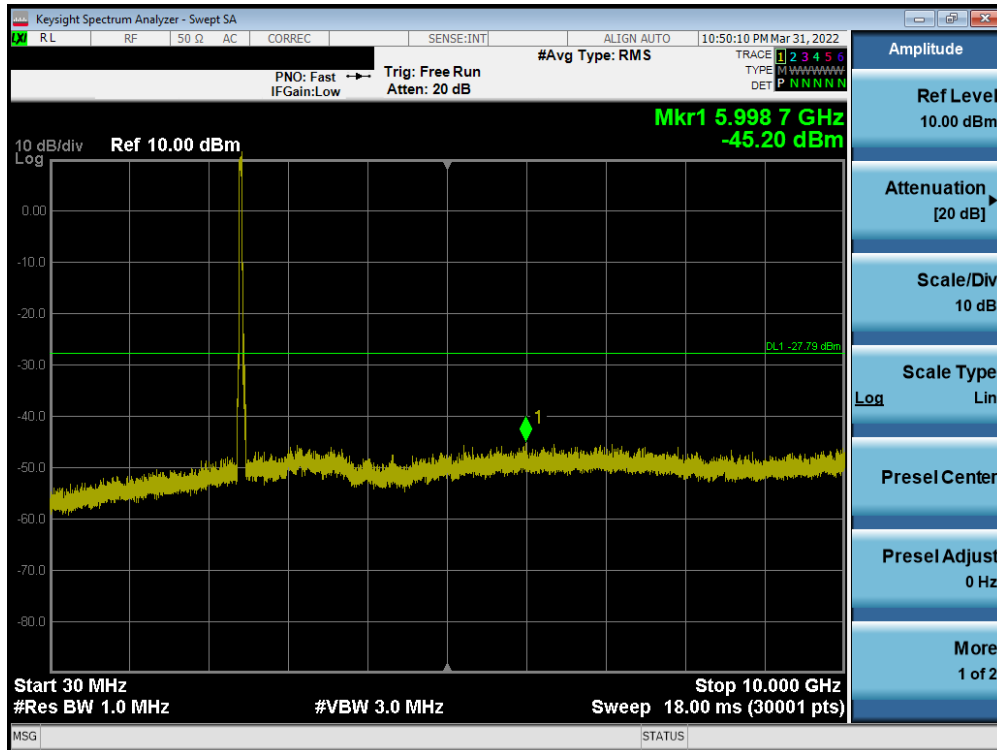


Plot 7-158. Conducted Spurious Plot SISO ANT2 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 11)

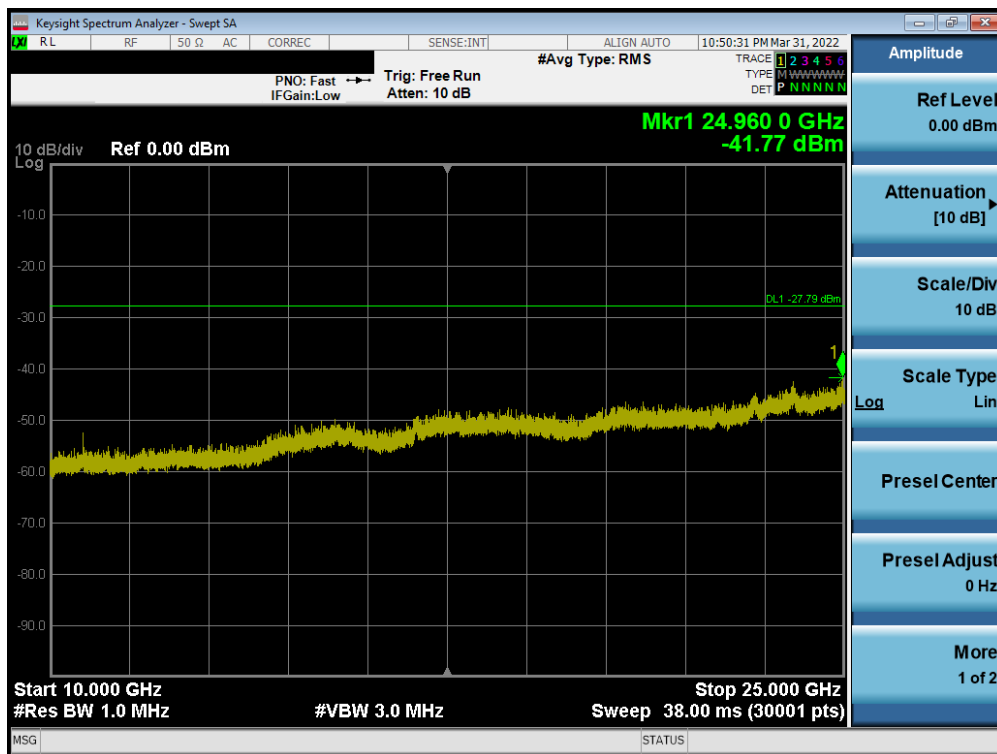


Plot 7-159. Conducted Spurious Plot SISO ANT2 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 134 of 213

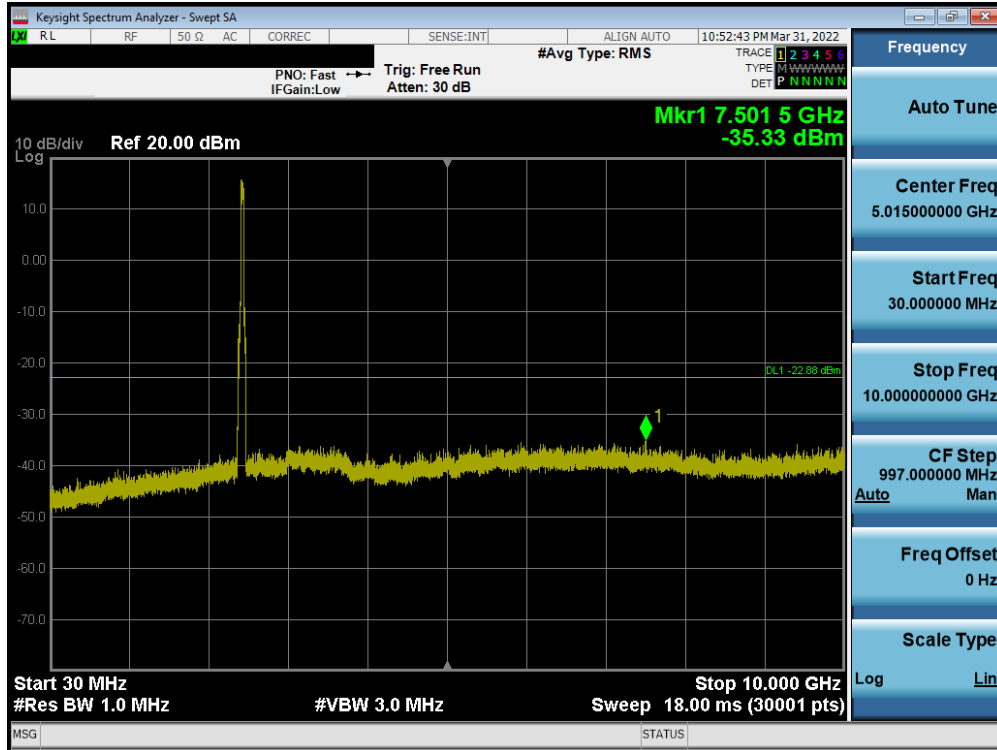


Plot 7-160. Conducted Spurious Plot SISO ANT2 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 3)

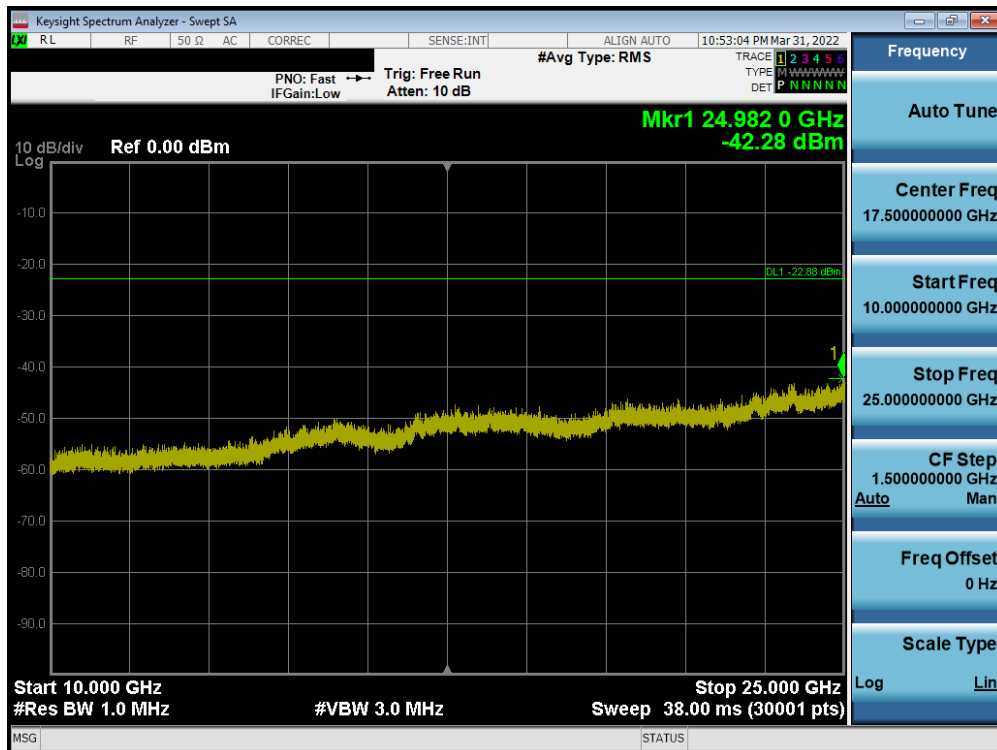


Plot 7-161. Conducted Spurious Plot SISO ANT2 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 3)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 135 of 213

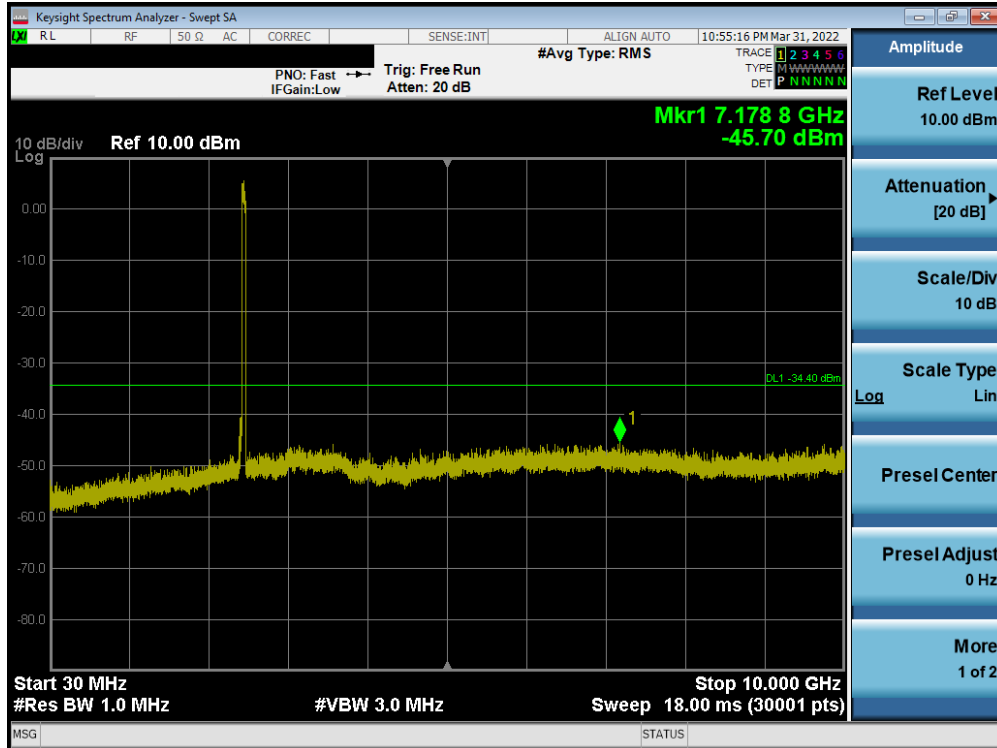


Plot 7-162. Conducted Spurious Plot SISO ANT2 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 7)

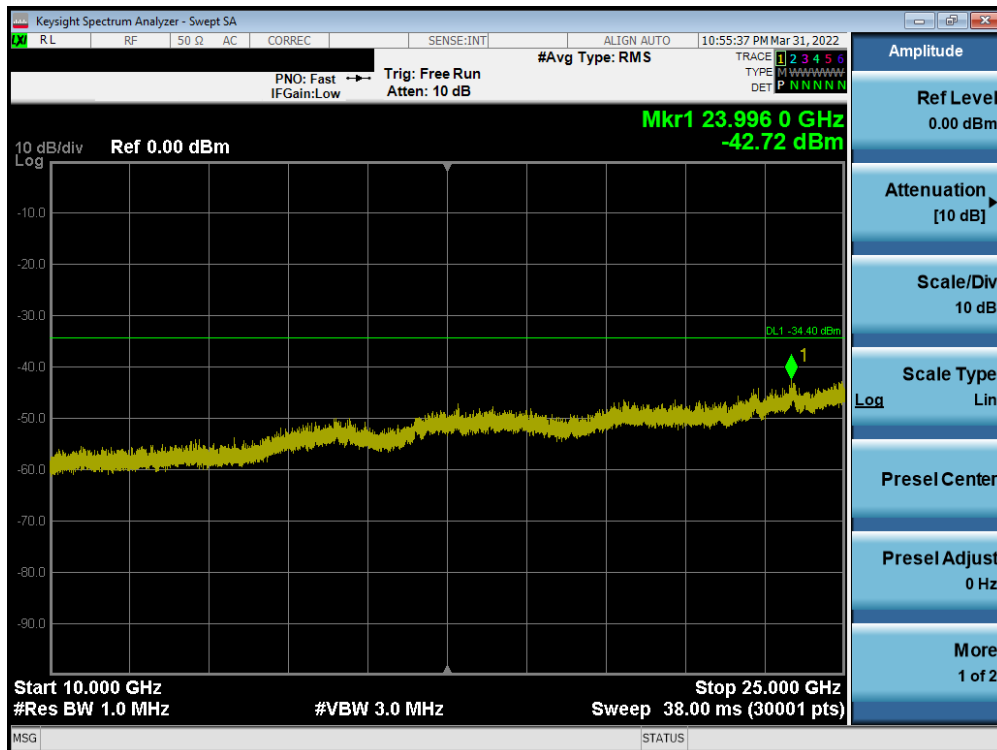


Plot 7-163. Conducted Spurious Plot SISO ANT2 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 7)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-164. Conducted Spurious Plot SISO ANT2 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 11)



Plot 7-165. Conducted Spurious Plot SISO ANT2 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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 7-39 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-39. 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 $\geq 2 \times \text{span/RBW}$)
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 Setup

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

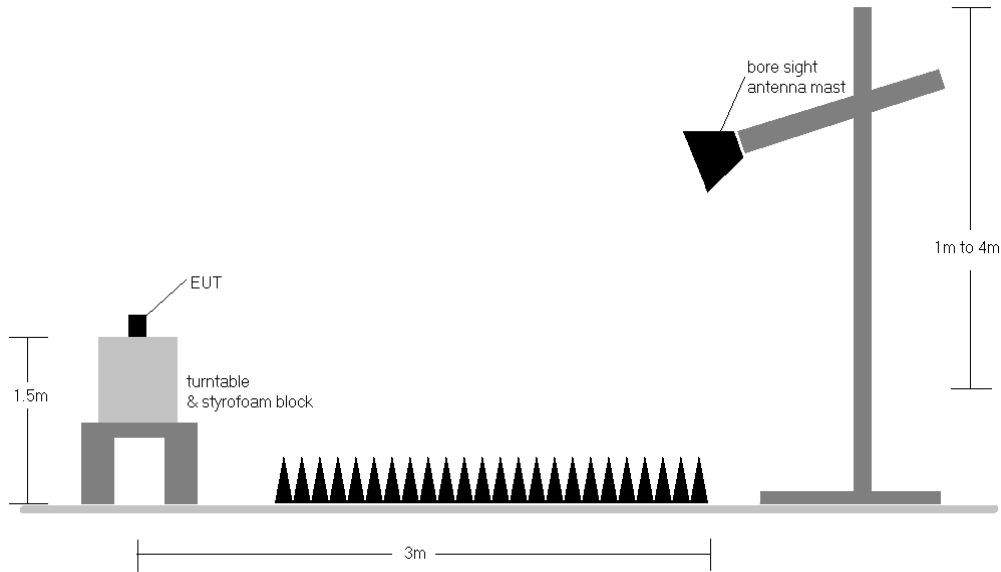


Figure 7-6. Test Instrument & Measurement Setup

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 7-39.
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. 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.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

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9. Some band edge measurements were performed using a channel integration method to determine compliance with the out of band average radiated spurious emissions limit in the 2483.5 – 2500MHz band. Per KDB 558074 D01 v05r02 Section 13.3, a measurement was performed using a RBW of 100kHz at the frequency with highest emission outside of band edge. For integration that does not start at 2483.5MHz, consideration was taken to ensure the worst case emission is in the 1MHz spectrum. The results were integrated up to the 1MHz reference bandwidth to show compliance with the 15.209 radiated limit for emissions greater than 1GHz.
10. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

Sample Calculations

Determining Spurious Emissions Levels

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

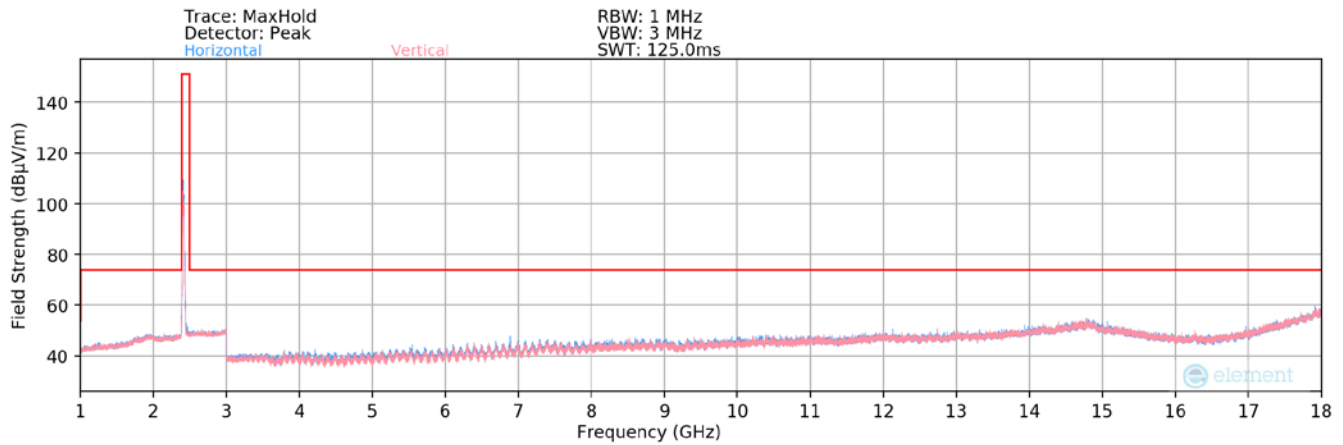
Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

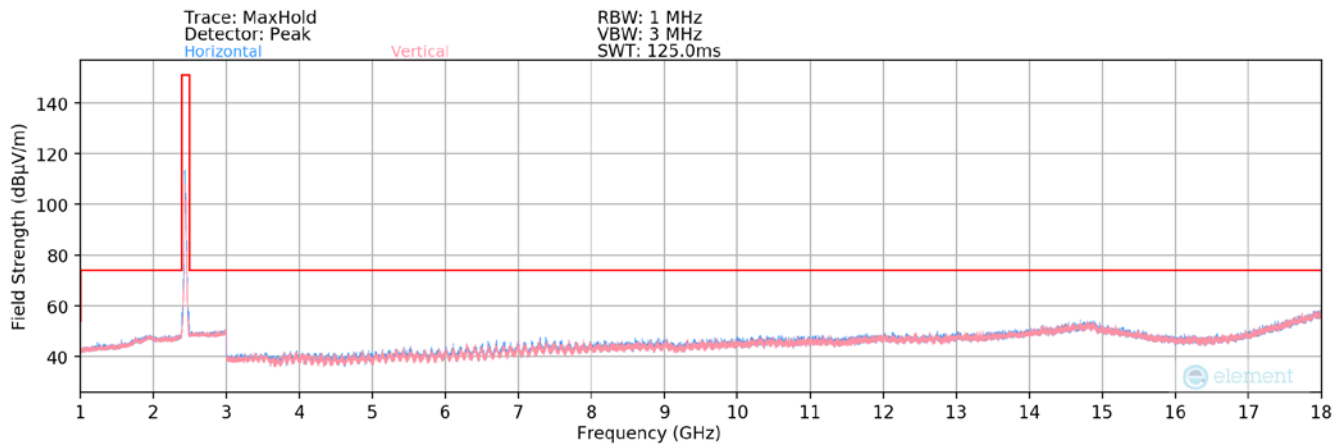
FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 140 of 213

7.7.1 SISO Antenna-1 Radiated Spurious Emission Measurements

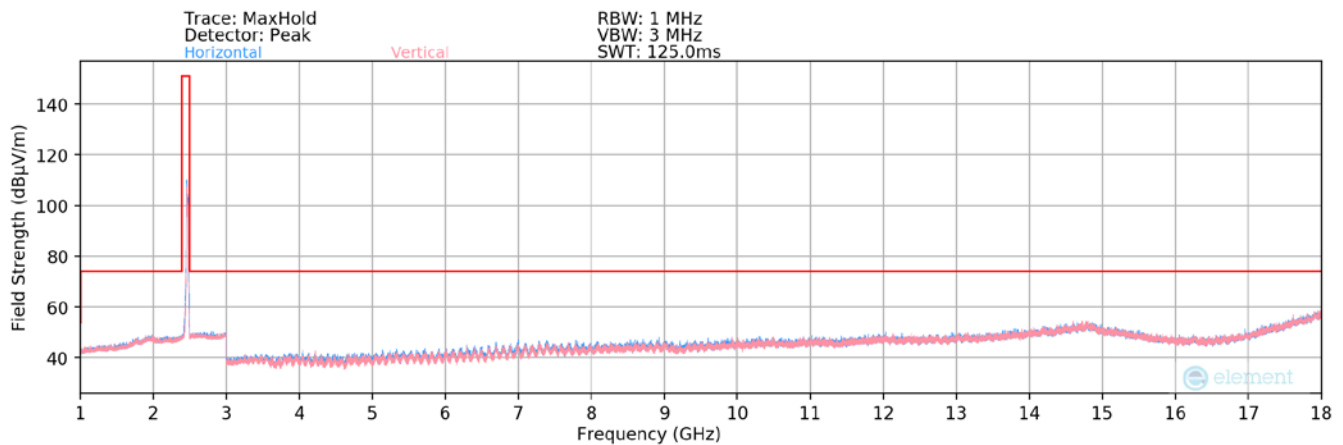
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-166. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax OFDMA – 106 Tones – Ch. 1)

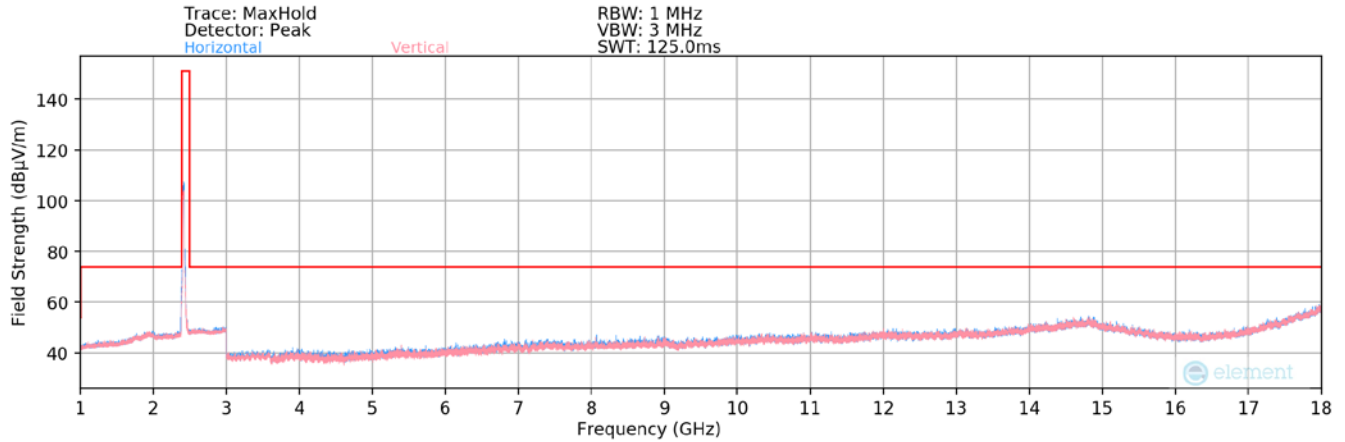


Plot 7-167. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax OFDMA – 106 Tones – Ch. 6)

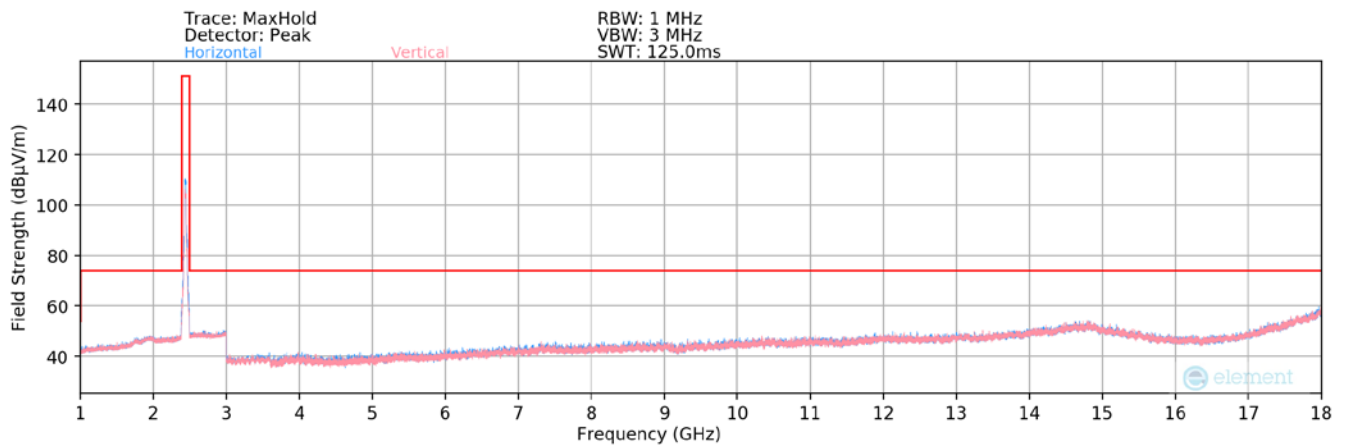


Plot 7-168. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax OFDMA – 106 Tones – Ch. 11)

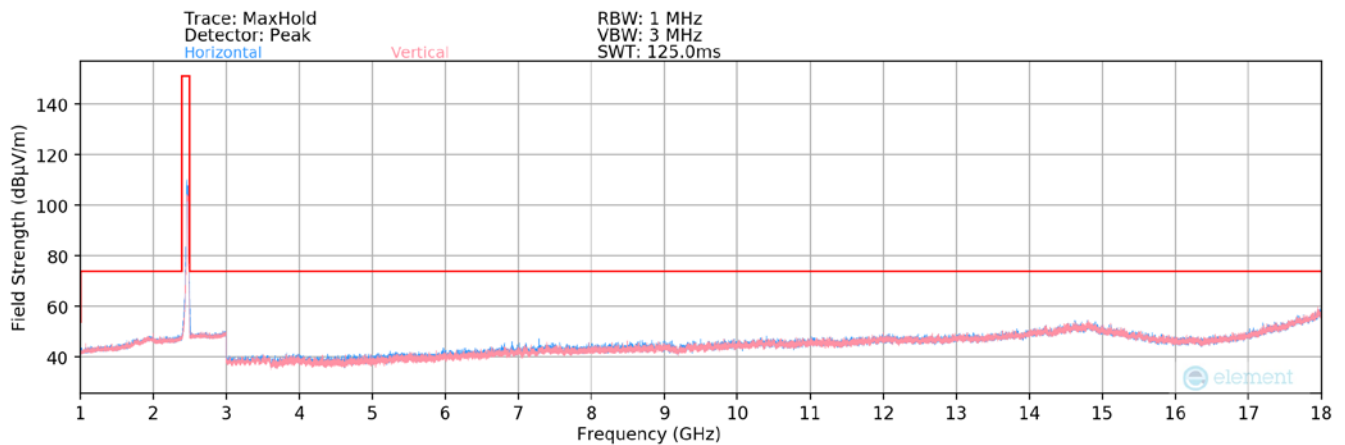
FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 141 of 213



Plot 7-169. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 1)



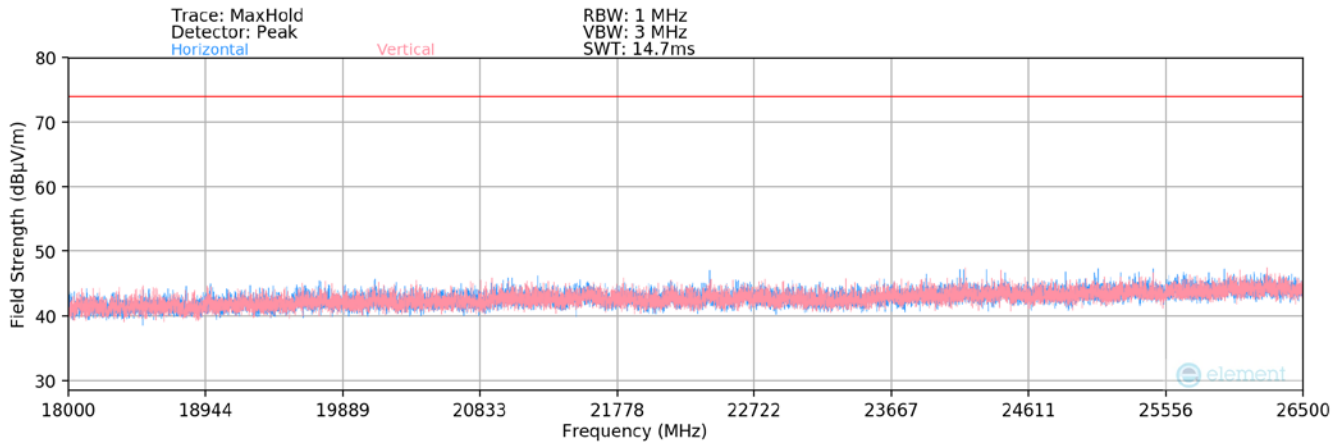
Plot 7-170. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 6)



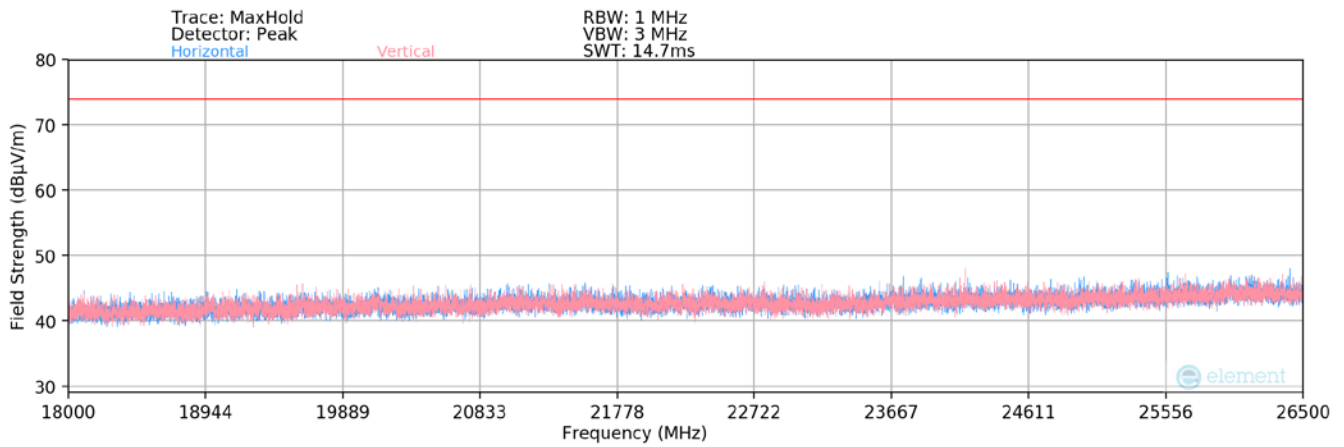
Plot 7-171. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)
§15.209; RSS-Gen [8.9]



Plot 7-172. Radiated Spurious Plot above 18GHz SISO ANT1 (802.11ax OFDMA – 106 Tones)



Plot 7-173. Radiated Spurious Plot above 18GHz SISO ANT1 (802.11ax OFDMA – 242 Tones)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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SISO Antenna-1 Radiated Spurious Emission Measurements
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	V	-	-	-76.80	1.13	31.33	53.98	-22.65
4824.00	Peak	V	-	-	-65.19	1.13	42.94	73.98	-31.04
12060.00	Avg	V	-	-	-81.54	12.67	38.13	53.98	-15.84
12060.00	Peak	V	-	-	-69.16	12.67	50.51	73.98	-23.46

Table 7-40. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	V	-	-	-78.30	1.26	29.96	53.98	-24.02
4874.00	Peak	V	-	-	-68.85	1.26	39.41	73.98	-34.57
7311.00	Avg	V	137	116	-76.36	7.14	37.78	53.98	-16.20
7311.00	Peak	V	137	116	-64.77	7.14	49.37	73.98	-24.61
12185.00	Avg	V	-	-	-81.70	12.41	37.71	53.98	-16.27
12185.00	Peak	V	-	-	-69.57	12.41	49.84	73.98	-24.14

Table 7-41. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	V	-	-	-77.34	1.38	31.04	53.98	-22.94
4924.00	Peak	V	-	-	-65.43	1.38	42.95	73.98	-31.03
7386.00	Avg	V	-	-	-80.36	7.55	34.19	53.98	-19.79
7386.00	Peak	V	-	-	-67.48	7.55	47.07	73.98	-26.91
12310.00	Avg	V	-	-	-79.90	12.46	39.56	53.98	-14.41
12310.00	Peak	V	-	-	-67.50	12.46	51.96	73.98	-22.01

Table 7-42. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	V	-	-	-78.24	1.13	29.89	53.98	-24.09
4824.00	Peak	V	-	-	-65.65	1.13	42.48	73.98	-31.50
12060.00	Avg	V	-	-	-81.24	12.67	38.43	53.98	-15.54
12060.00	Peak	V	-	-	-69.73	12.67	49.94	73.98	-24.03

Table 7-43. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 145 of 213

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	V	-	-	-77.28	1.26	30.98	53.98	-23.00
4874.00	Peak	V	-	-	-65.96	1.26	42.30	73.98	-31.68
7311.00	Avg	V	-	-	-79.98	7.14	34.16	53.98	-19.82
7311.00	Peak	V	-	-	-68.29	7.14	45.85	73.98	-28.13
12185.00	Avg	V	-	-	-81.48	12.41	37.93	53.98	-16.05
12185.00	Peak	V	-	-	-69.84	12.41	49.57	73.98	-24.41

Table 7-44. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

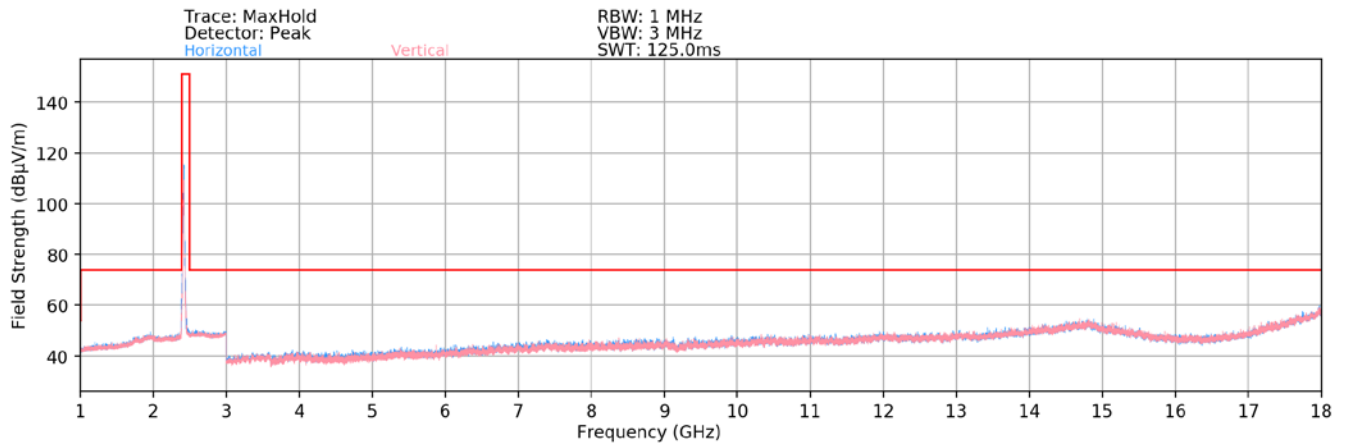
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	V	-	-	-77.62	1.38	30.76	53.98	-23.22
4924.00	Peak	V	-	-	-65.10	1.38	43.28	73.98	-30.70
7386.00	Avg	V	-	-	-79.80	7.55	34.75	53.98	-19.23
7386.00	Peak	V	-	-	-67.90	7.55	46.65	73.98	-27.33
12310.00	Avg	V	-	-	-81.25	12.46	38.21	53.98	-15.76
12310.00	Peak	V	-	-	-69.63	12.46	49.83	73.98	-24.14

Table 7-45. Radiated Measurements SISO ANT1 (242 Tones)

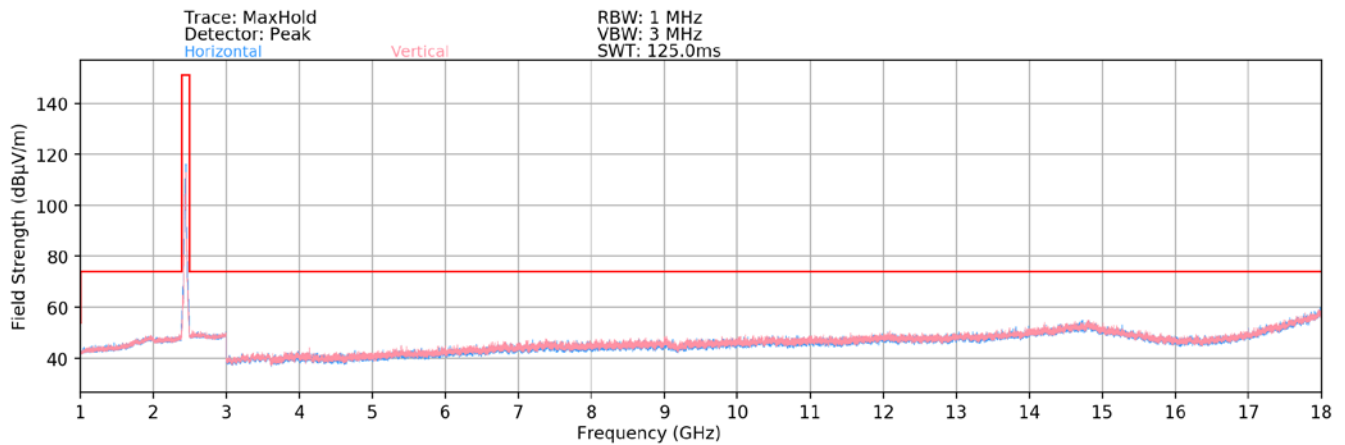
FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 146 of 213

7.7.2 SISO Antenna-2 Radiated Spurious Emission Measurements

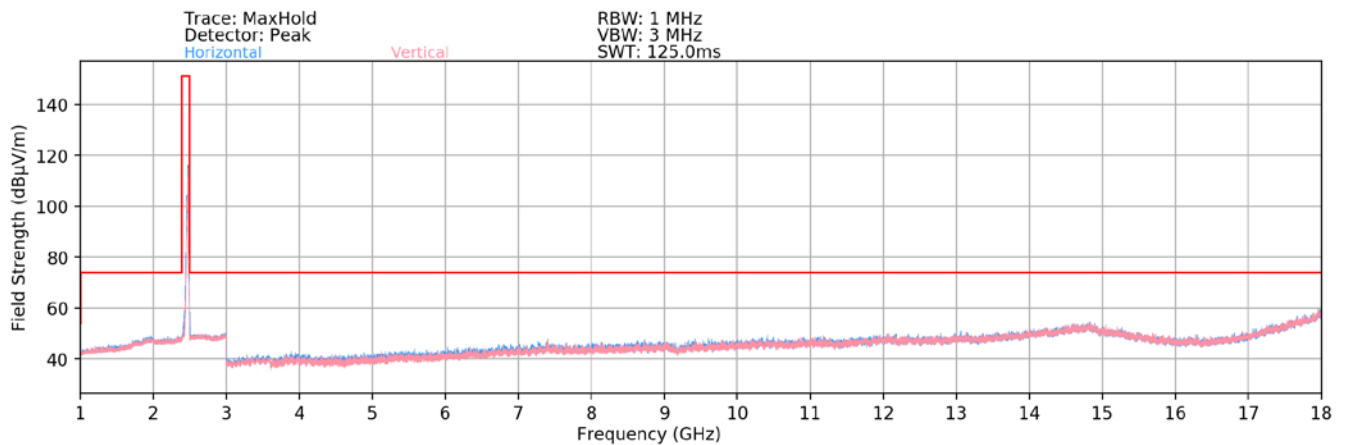
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-174. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax OFDMA – 106 Tones – Ch. 1)

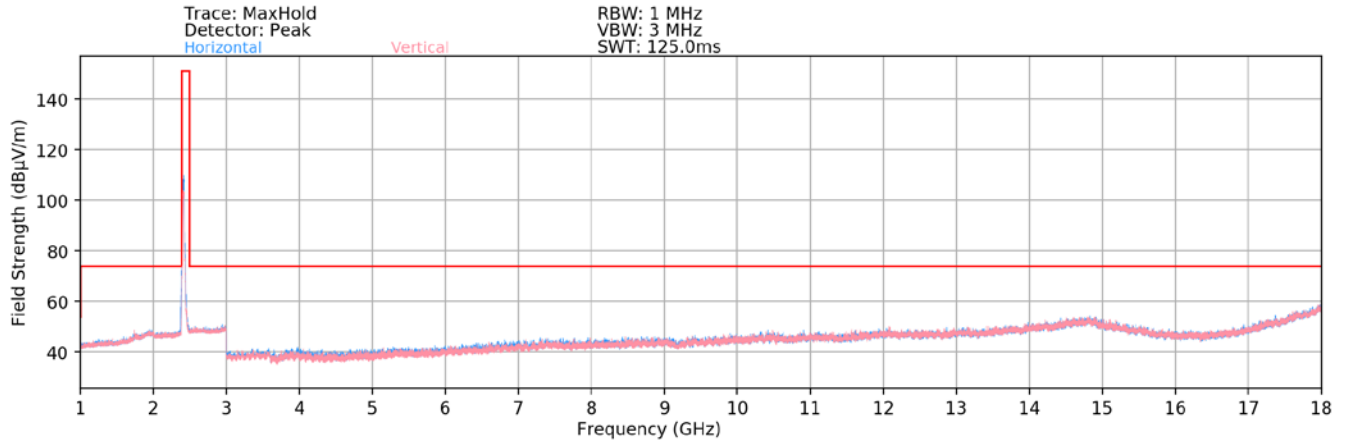


Plot 7-175. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax OFDMA – 106 Tones – Ch. 6)

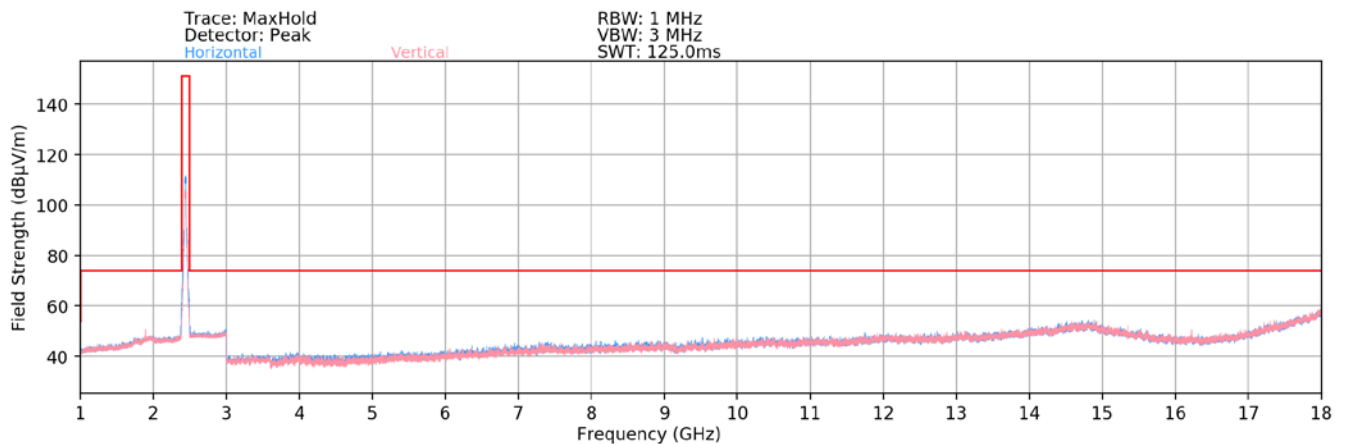


Plot 7-176. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax OFDMA – 106 Tones – Ch. 11)

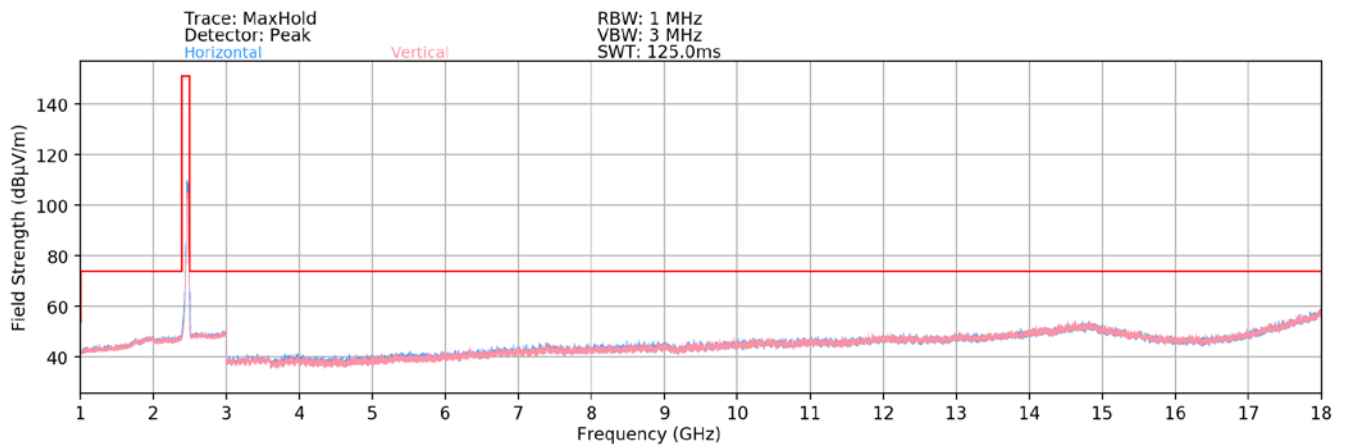
FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 147 of 213



Plot 7-177. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 1)



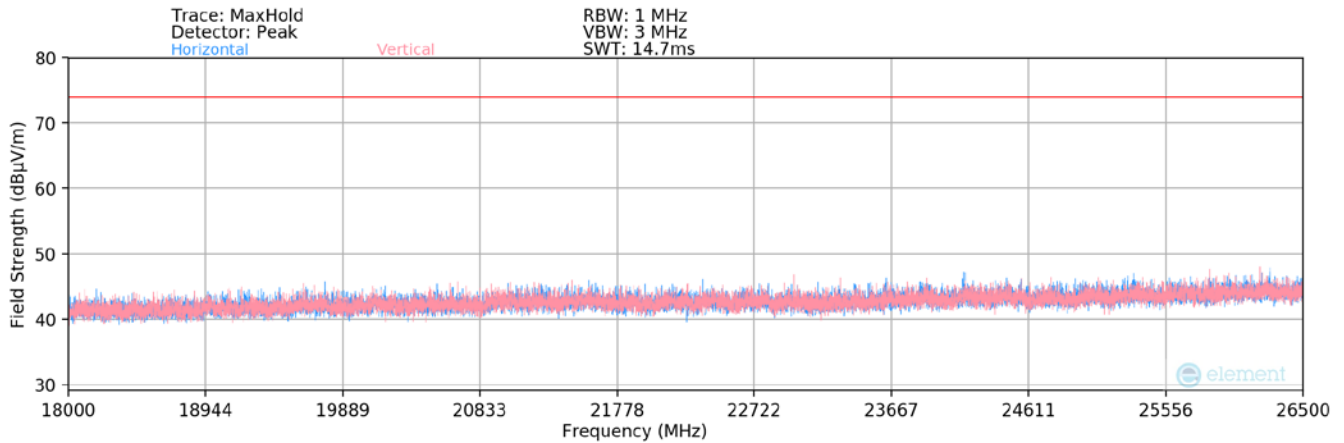
Plot 7-178. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 6)



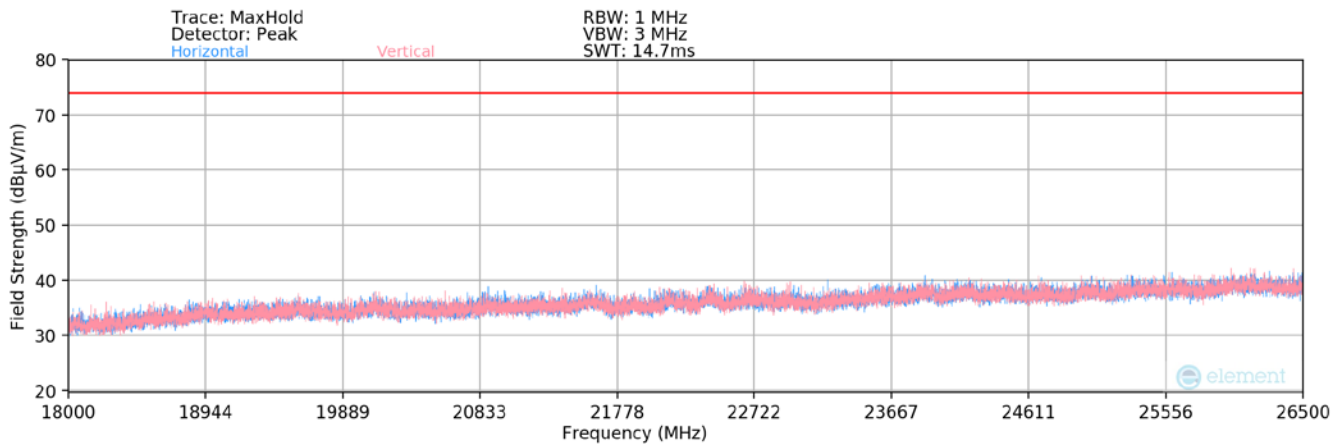
Plot 7-179. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 1)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 148 of 213

SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)
§15.209; RSS-Gen [8.9]



Plot 7-180. Radiated Spurious Plot above 18GHz SISO ANT2 (802.11ax OFDMA – 106 Tones)



Plot 7-181. Radiated Spurious Plot above 18GHz SISO ANT2 (802.11ax OFDMA – 242 Tones)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 149 of 213



SISO Antenna-2 Radiated Spurious Emission Measurements
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	V	-	-	-77.35	1.13	30.78	53.98	-23.20
4824.00	Peak	V	-	-	-65.49	1.13	42.64	73.98	-31.34
12060.00	Avg	V	-	-	-81.14	12.67	38.53	53.98	-15.44
12060.00	Peak	V	-	-	-68.98	12.67	50.69	73.98	-23.28

Table 7-46. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	V	-	-	-78.40	1.26	29.86	53.98	-24.12
4874.00	Peak	V	-	-	-66.84	1.26	41.42	73.98	-32.56
7311.00	Avg	V	337	351	-75.70	7.14	38.44	53.98	-15.54
7311.00	Peak	V	337	351	-63.32	7.14	50.82	73.98	-23.16
12185.00	Avg	V	-	-	-81.74	12.41	37.67	53.98	-16.31
12185.00	Peak	V	-	-	-69.85	12.41	49.56	73.98	-24.42

Table 7-47. Radiated Measurements SISO ANT2 (106 Tones)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 150 of 213

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Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	V	-	-	-74.74	1.38	33.64	53.98	-20.34
4924.00	Peak	V	-	-	-63.20	1.38	45.18	73.98	-28.80
7386.00	Avg	V	-	-	-79.06	7.55	35.49	53.98	-18.49
7386.00	Peak	V	-	-	-67.08	7.55	47.47	73.98	-26.51
12310.00	Avg	V	-	-	-80.72	12.46	38.74	53.98	-15.23
12310.00	Peak	V	-	-	-69.26	12.46	50.20	73.98	-23.77

Table 7-48. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	V	-	-	-78.91	1.13	29.22	53.98	-24.76
4824.00	Peak	V	-	-	-66.78	1.13	41.35	73.98	-32.63
12060.00	Avg	V	-	-	-82.08	12.67	37.59	53.98	-16.38
12060.00	Peak	V	-	-	-69.79	12.67	49.88	73.98	-24.09

Table 7-49. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 151 of 213

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	V	-	-	-78.98	1.26	29.28	53.98	-24.70
4874.00	Peak	V	-	-	-67.44	1.26	40.82	73.98	-33.16
7311.00	Avg	V	-	-	-81.07	7.14	33.07	53.98	-20.91
7311.00	Peak	V	-	-	-68.36	7.14	45.78	73.98	-28.20
12185.00	Avg	V	-	-	-81.76	12.41	37.65	53.98	-16.33
12185.00	Peak	V	-	-	-69.13	12.41	50.28	73.98	-23.70

Table 7-50. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

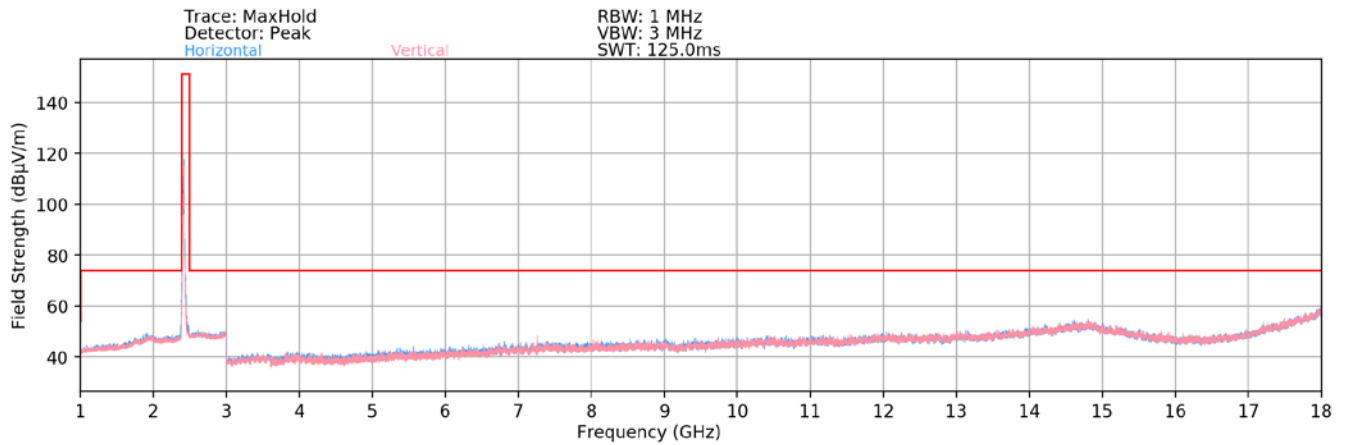
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	V	-	-	-79.58	1.38	28.80	53.98	-25.18
4924.00	Peak	V	-	-	-67.80	1.38	40.58	73.98	-33.40
7386.00	Avg	V	-	-	-77.93	7.55	36.62	53.98	-17.36
7386.00	Peak	V	-	-	-65.51	7.55	49.04	73.98	-24.94
12310.00	Avg	V	-	-	-78.50	12.46	40.96	53.98	-13.01
12310.00	Peak	V	-	-	-66.46	12.46	53.00	73.98	-20.97

Table 7-51. Radiated Measurements SISO ANT2 (242 Tones)

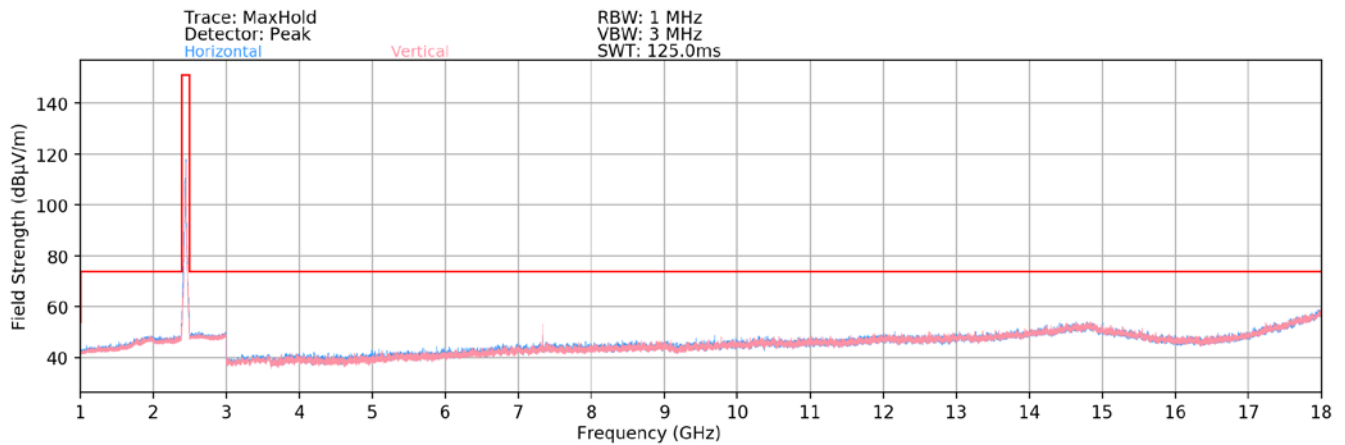
FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 152 of 213

7.7.3 MIMO Radiated Spurious Emission Measurements

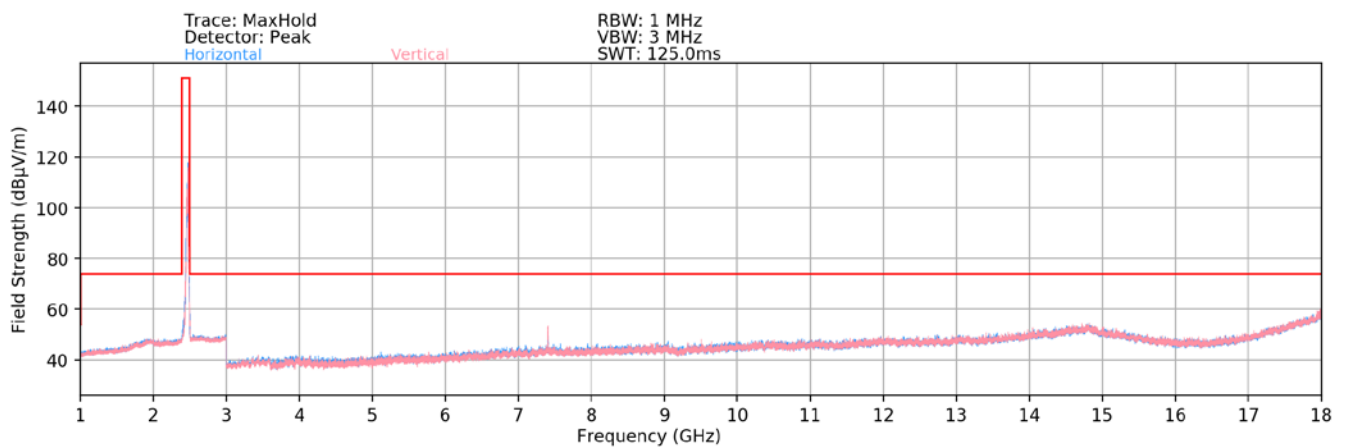
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-182. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 106 Tones – Ch. 1)

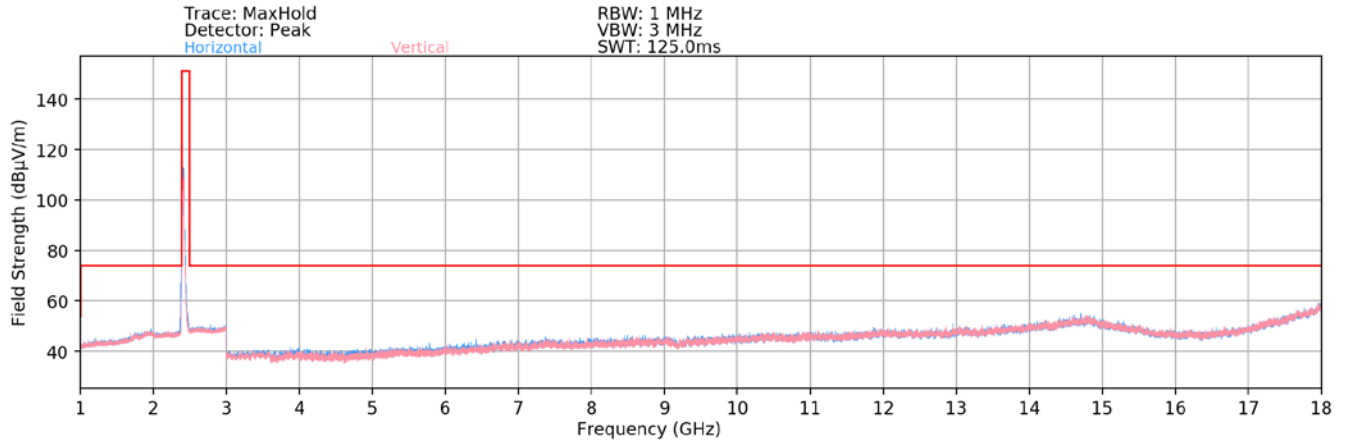


Plot 7-183. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 106 Tones – Ch. 6)

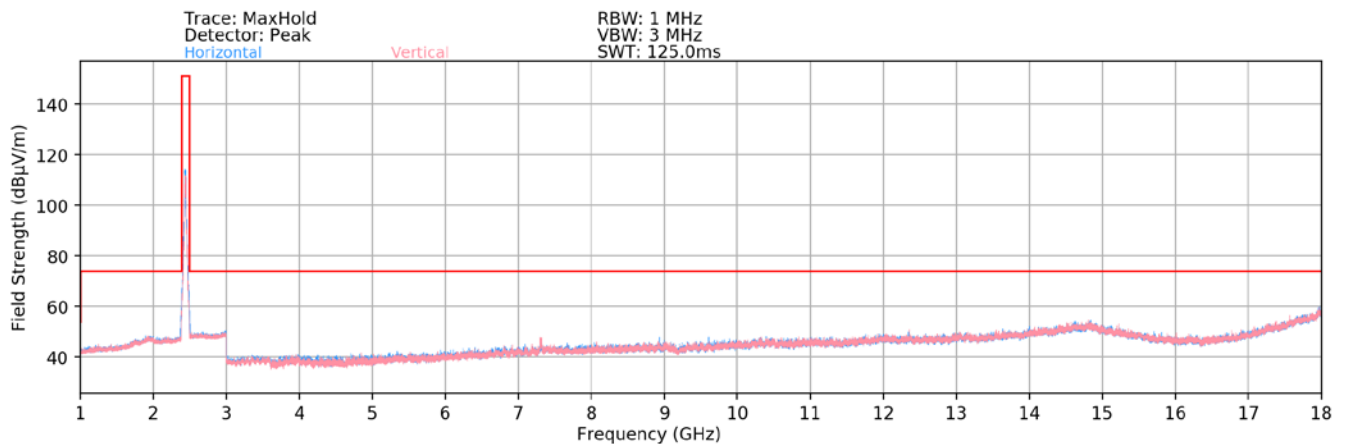


Plot 7-184. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 106 Tones – Ch. 11)

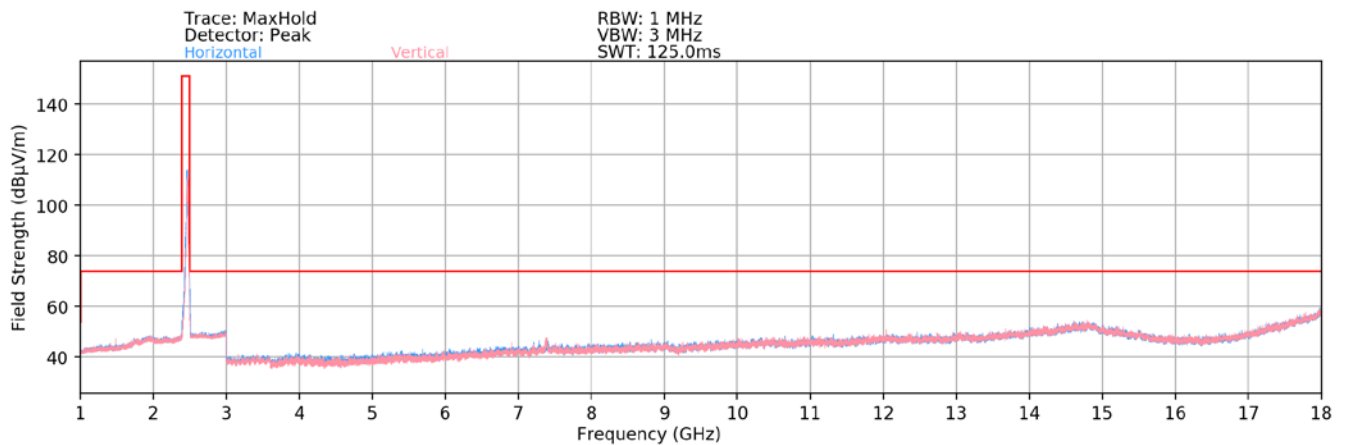
FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 153 of 213



Plot 7-185. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 1)



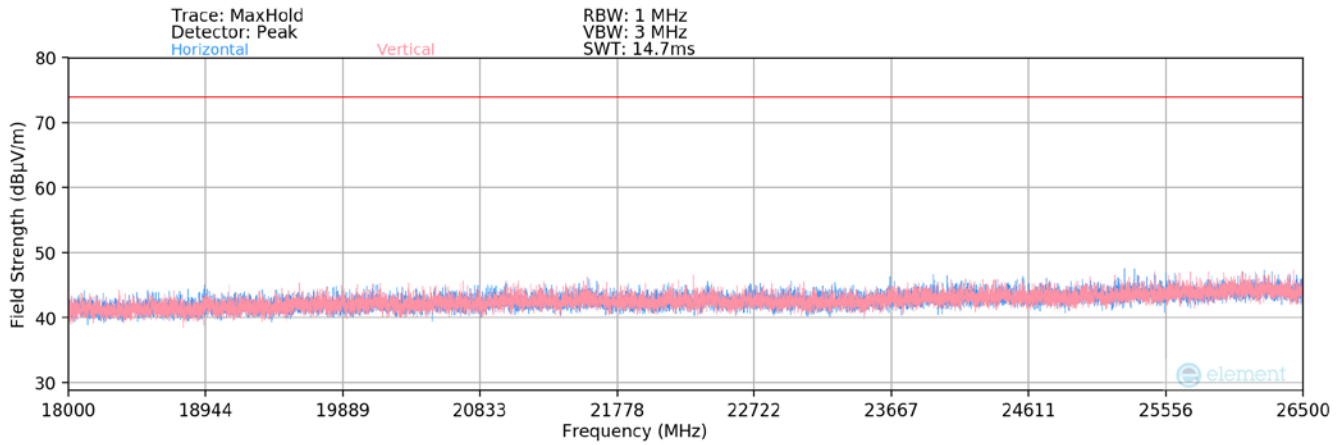
Plot 7-186. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 6)



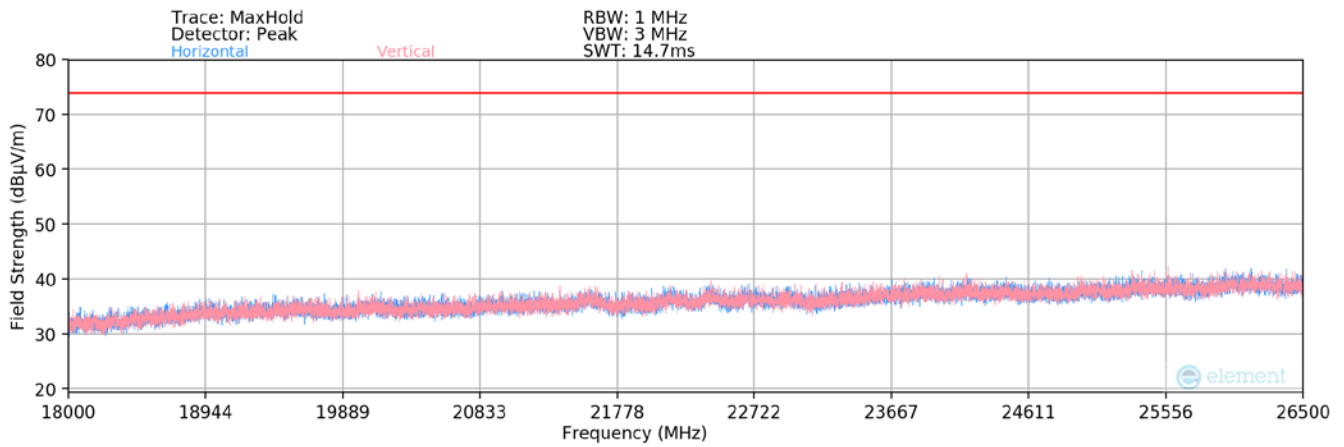
Plot 7-187. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 154 of 213

MIMO Radiated Spurious Emissions Measurements (Above 18GHz)
§15.209; RSS-Gen [8.9]



Plot 7-188. Radiated Spurious Plot above 18GHz MIMO (802.11ax OFDMA – 106 Tones)



Plot 7-189. Radiated Spurious Plot above 18GHz MIMO (802.11ax OFDMA – 242 Tones)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 155 of 213



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

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	V	-	-	-77.14	1.13	30.99	53.98	-22.99
4824.00	Peak	V	-	-	-65.03	1.13	43.10	73.98	-30.88
12060.00	Avg	V	-	-	-81.16	12.67	38.51	53.98	-15.46
12060.00	Peak	V	-	-	-69.44	12.67	50.23	73.98	-23.74

Table 7-52. Radiated Measurements MIMO (106 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	V	-	-	-77.62	1.26	30.64	53.98	-23.34
4874.00	Peak	V	-	-	-65.60	1.26	42.66	73.98	-31.32
7311.00	Avg	V	205	361	-72.87	7.14	41.27	53.98	-12.71
7311.00	Peak	V	205	361	-60.52	7.14	53.62	73.98	-20.36
12185.00	Avg	V	-	-	-81.36	12.41	38.05	53.98	-15.93
12185.00	Peak	V	-	-	-69.98	12.41	49.43	73.98	-24.55

Table 7-53. Radiated Measurements MIMO (106 Tones)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 156 of 213

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Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	V	-	-	-76.69	1.38	31.69	53.98	-22.29
4924.00	Peak	V	-	-	-64.94	1.38	43.44	73.98	-30.54
7386.00	Avg	V	400	187	-68.82	7.55	45.73	53.98	-8.25
7386.00	Peak	V	400	187	-55.61	7.55	58.94	73.98	-15.04
12310.00	Avg	V	-	-	-80.61	12.46	38.85	53.98	-15.12
12310.00	Peak	V	-	-	-68.81	12.46	50.65	73.98	-23.32

Table 7-54. Radiated Measurements MIMO (106 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	V	-	-	-76.86	1.13	31.27	53.98	-22.71
4824.00	Peak	V	-	-	-65.04	1.13	43.09	73.98	-30.89
12060.00	Avg	V	-	-	-81.85	12.67	37.82	53.98	-16.15
12060.00	Peak	V	-	-	-70.28	12.67	49.39	73.98	-24.58

Table 7-55. Radiated Measurements MIMO (242 Tones)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 157 of 213

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	V	-	-	-79.09	1.26	29.17	53.98	-24.81
4874.00	Peak	V	-	-	-67.37	1.26	40.89	73.98	-33.09
7311.00	Avg	V	117	192	-78.27	7.14	35.87	53.98	-18.11
7311.00	Peak	V	117	192	-66.08	7.14	48.06	73.98	-25.92
12185.00	Avg	V	-	-	-81.40	12.41	38.01	53.98	-15.97
12185.00	Peak	V	-	-	-69.14	12.41	50.27	73.98	-23.71

Table 7-56. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	V	-	-	-78.65	1.38	29.73	53.98	-24.25
4924.00	Peak	V	-	-	-66.67	1.38	41.71	73.98	-32.27
7386.00	Avg	V	-	-	-80.47	7.55	34.08	53.98	-19.90
7386.00	Peak	V	-	-	-68.79	7.55	45.76	73.98	-28.22
12310.00	Avg	V	-	-	-81.79	12.46	37.67	53.98	-16.30
12310.00	Peak	V	-	-	-69.56	12.46	49.90	73.98	-24.07

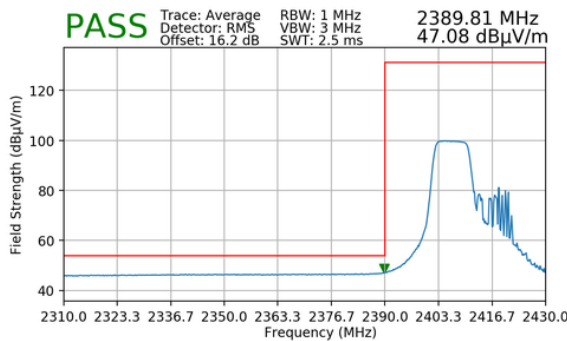
Table 7-57. Radiated Measurements MIMO (242 Tones)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 158 of 213

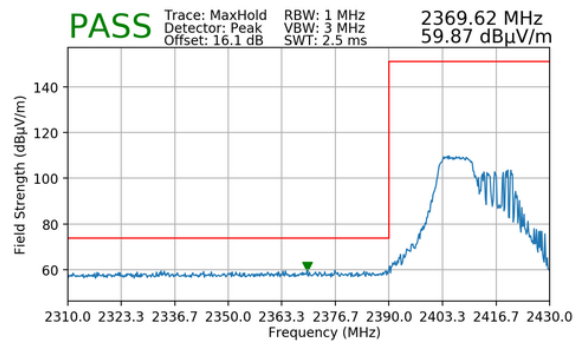
7.7.4 SISO Antenna-1 Radiated Restricted Band Edge Measurements 20MHz §15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

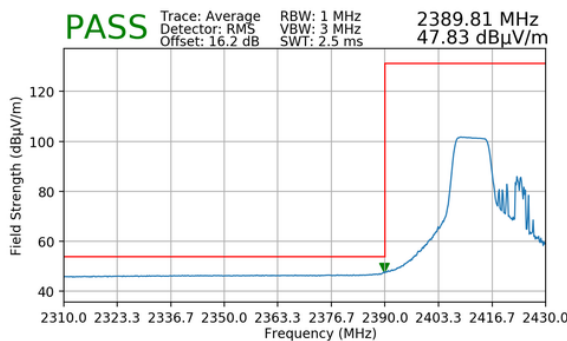


Plot 7-190. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Average – 106 Tones)

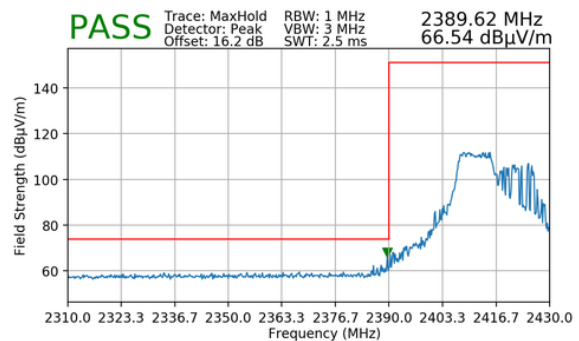


Plot 7-191. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Peak – 106 Tones)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2417MHz
Channel:	2



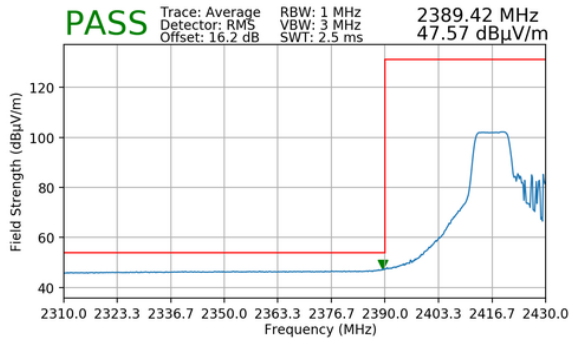
Plot 7-192. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Average – 106 Tones)



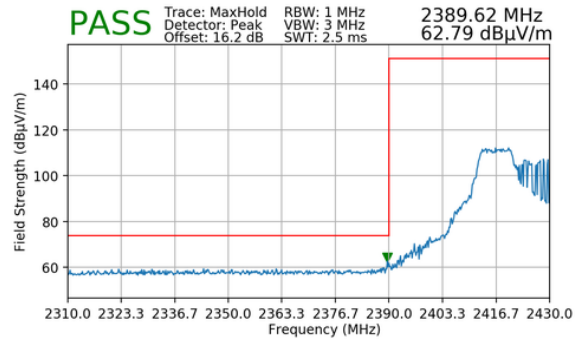
Plot 7-193. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Peak – 106 Tones)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 159 of 213

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 2422MHz
 Channel: 3

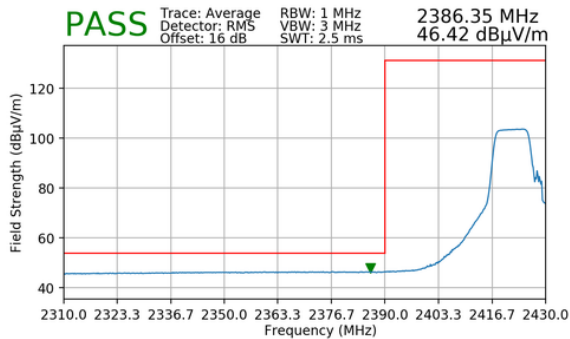


Plot 7-194. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Average – 106 Tones)

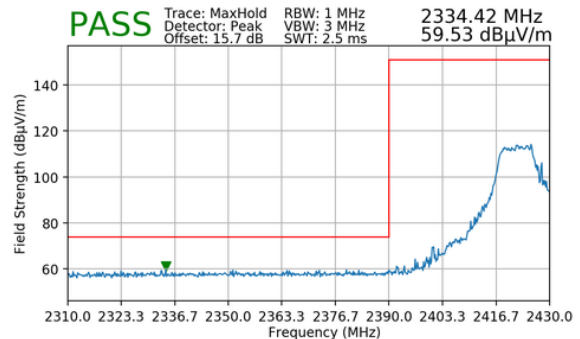


Plot 7-195. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Peak – 106 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 2427MHz
 Channel: 4



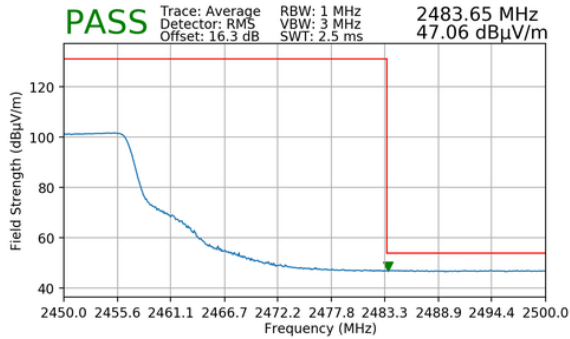
Plot 7-196. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Average – 106 Tones)



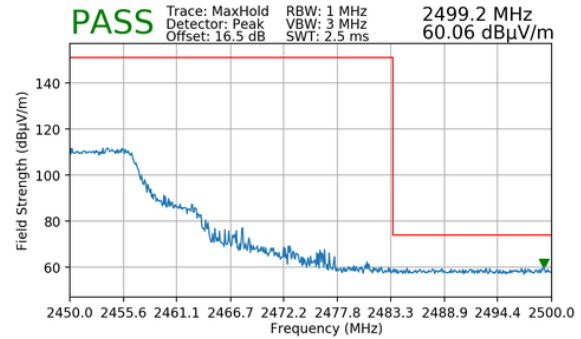
Plot 7-197. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Peak – 106 Tones)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 2447MHz
 Channel: 8

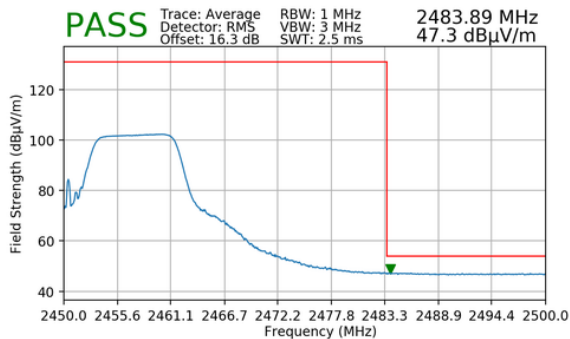


Plot 7-198. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Average – 106 Tones)

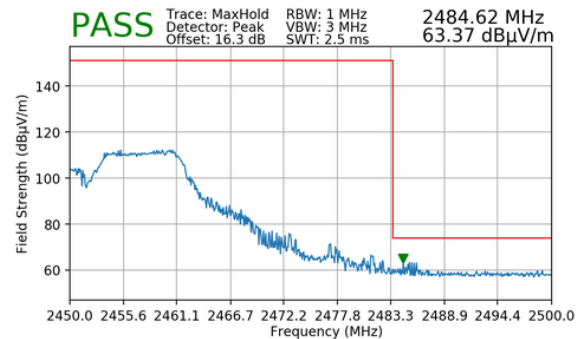


Plot 7-199. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Peak – 106 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 2452MHz
 Channel: 9



Plot 7-200. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Average – 106 Tones)



Plot 7-201. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Peak – 106 Tones)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 161 of 213