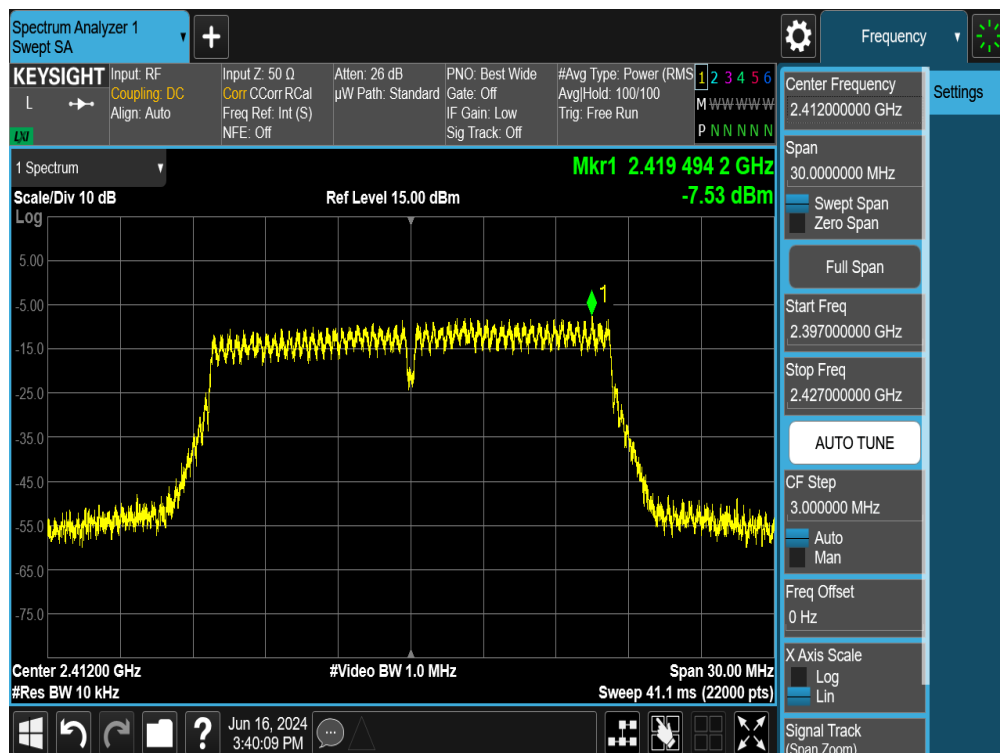
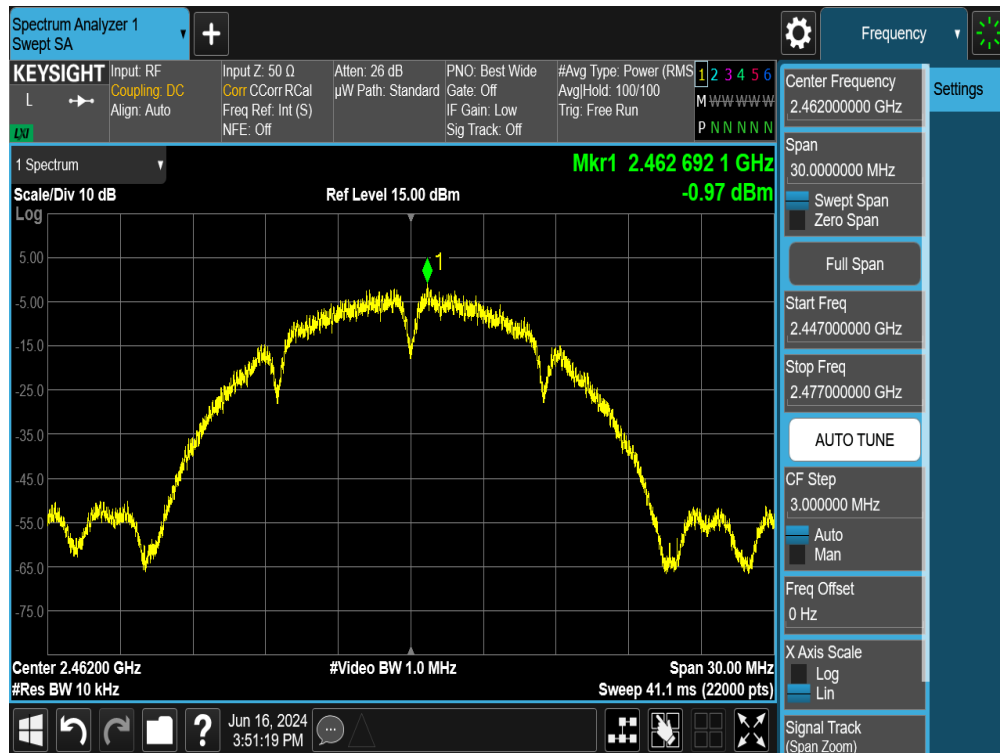
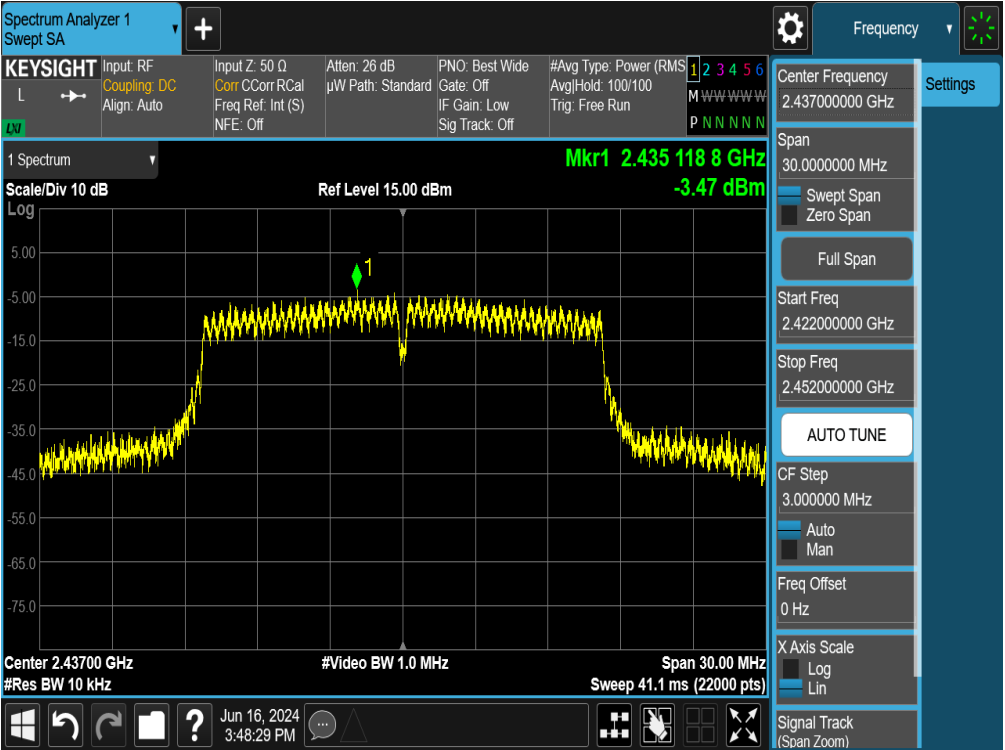
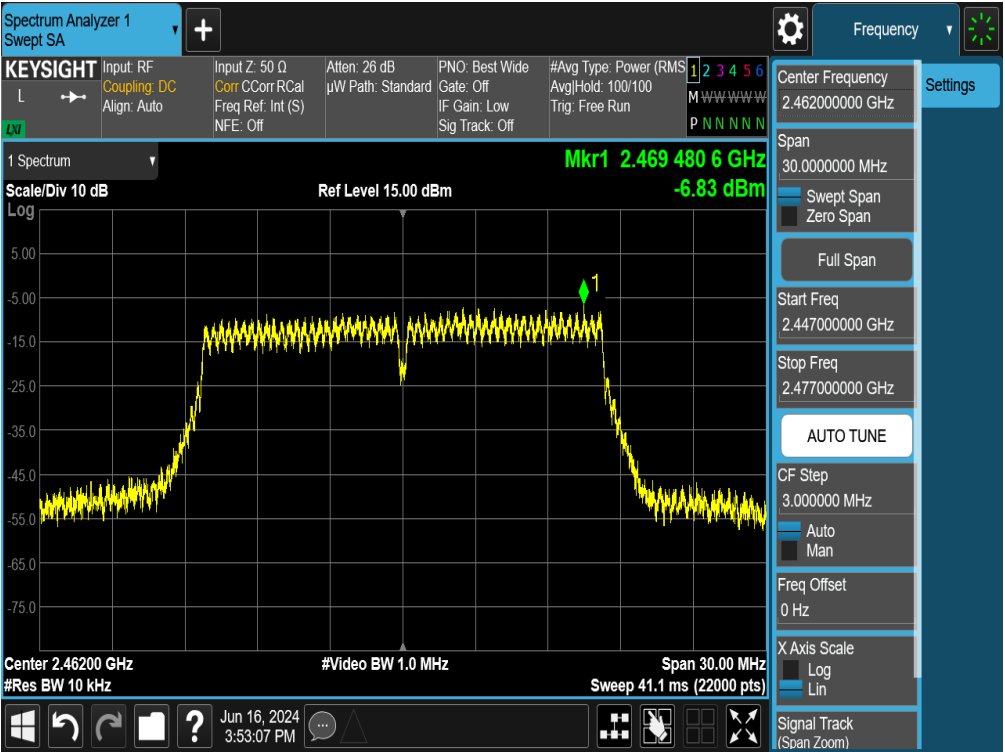




FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 73 of 154

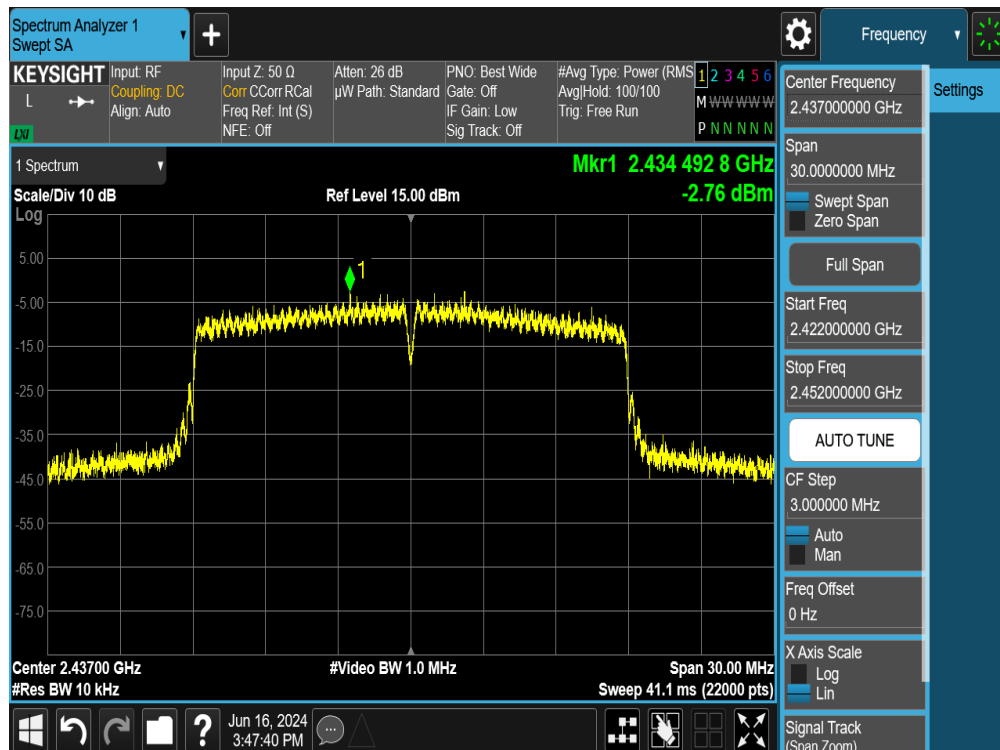
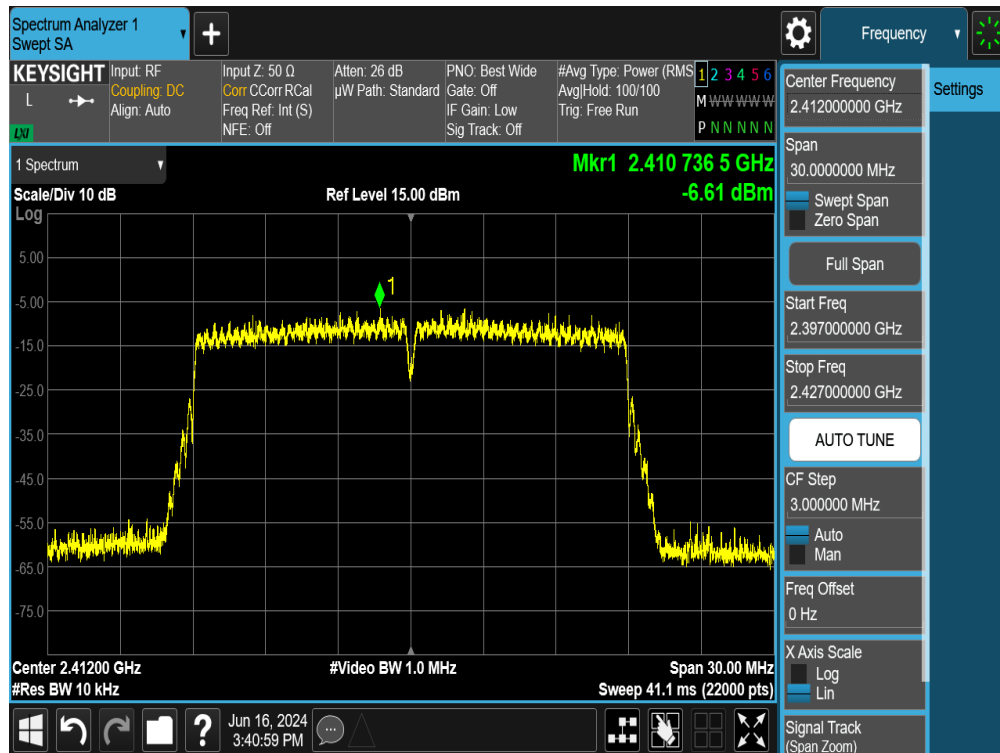


Plot 7-90. Power Spectral Density Plot MIMO ANT2 (802.11g – Ch. 6)

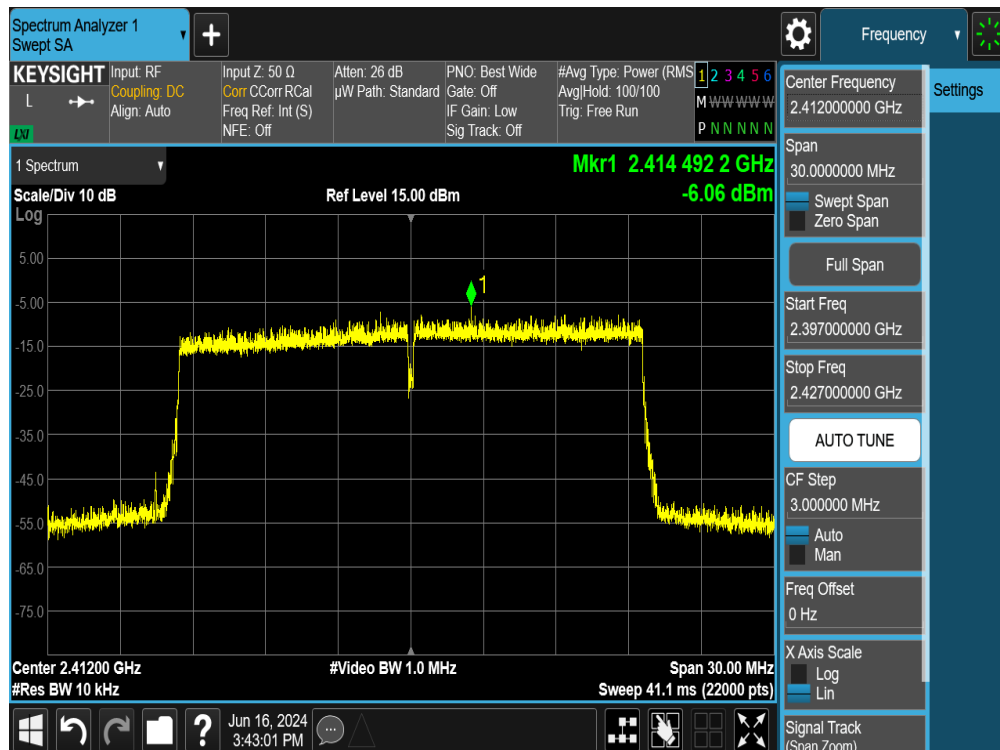


Plot 7-91. Power Spectral Density Plot MIMO ANT2 (802.11g – Ch. 11)

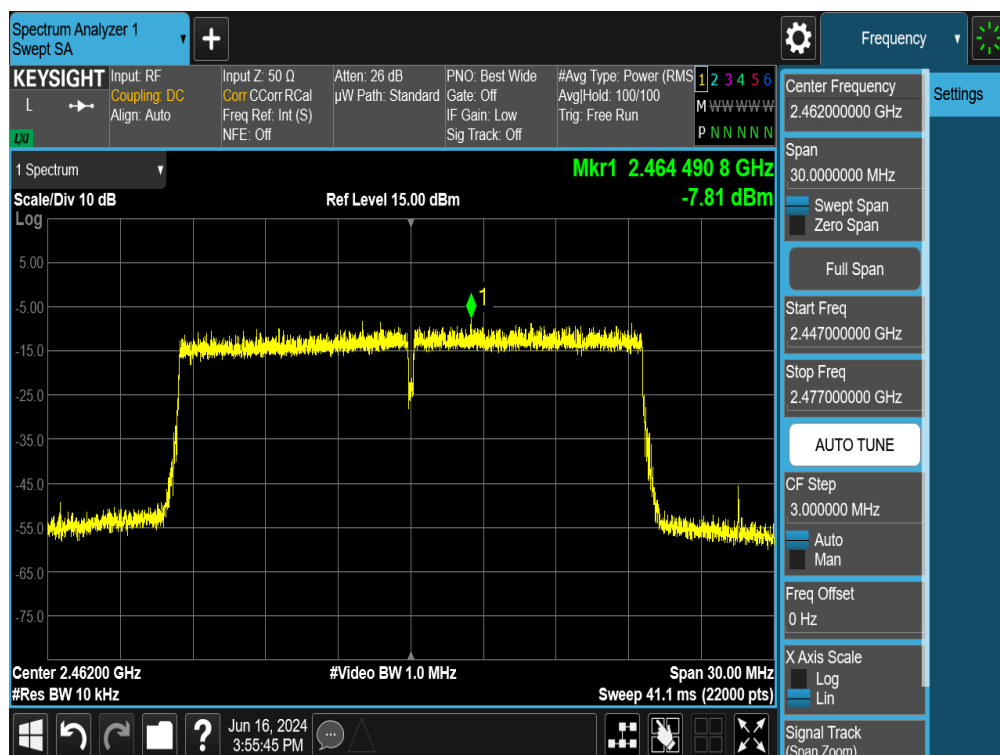
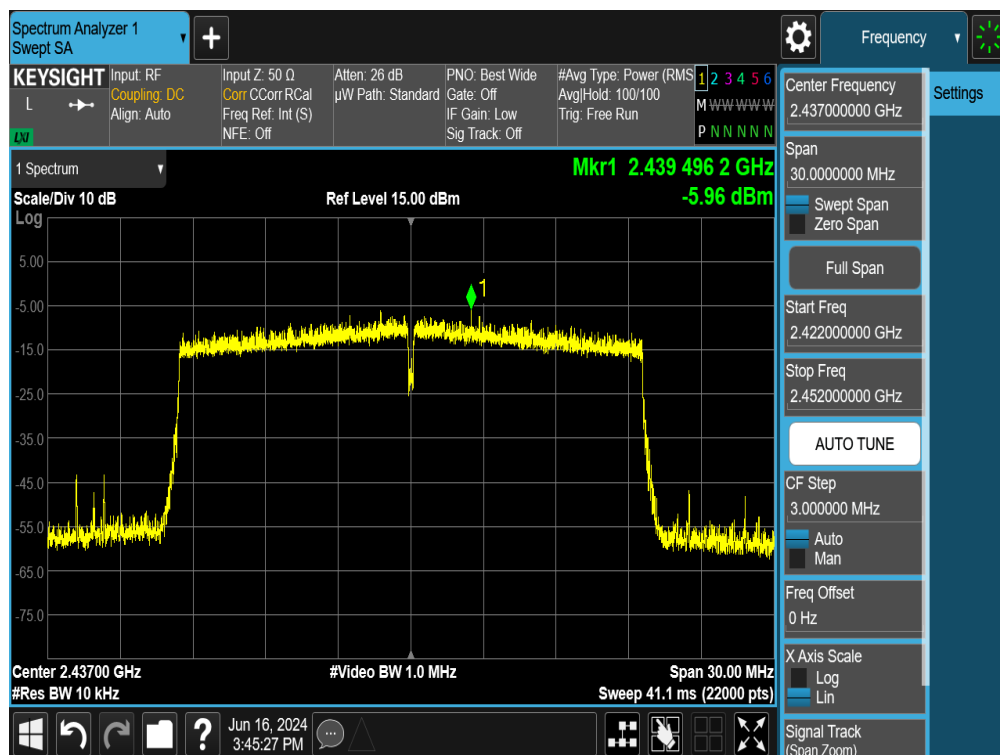
FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 74 of 154



FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 75 of 154



FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 76 of 154



FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 77 of 154



Note:

Per ANSI C63.10-2013 Section 14.3.1, the power spectral density at Antenna 1 and Antenna 2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 2412MHz the average conducted power spectral density was measured to be -2.88 dBm for Antenna 1 and -1.73 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

$$(-2.88 \text{ dBm} + (-1.73) \text{ dBm}) = (0.52 \text{ mW} + 0.67 \text{ mW}) = 1.19 \text{ mW} = 0.74 \text{ dBm}$$

FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 78 of 154

7.5 Conducted Band Edge Emissions

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 at the band edge, the EUT was set at a data rate of 1Mbps for “b” mode, 6 Mbps for “g” mode, 6.5\7.2Mbps for “n” mode, and 8.6Mbps for “ax” mode as these settings produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure (Section 7.4).

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3

Test Settings

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

Test Setup

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



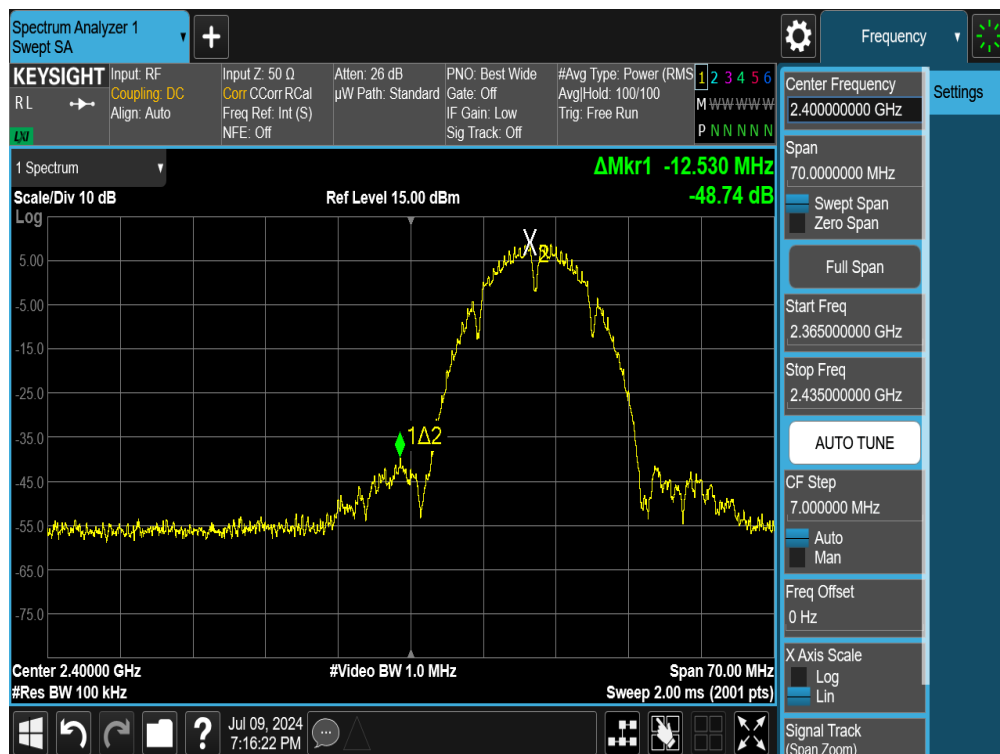
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

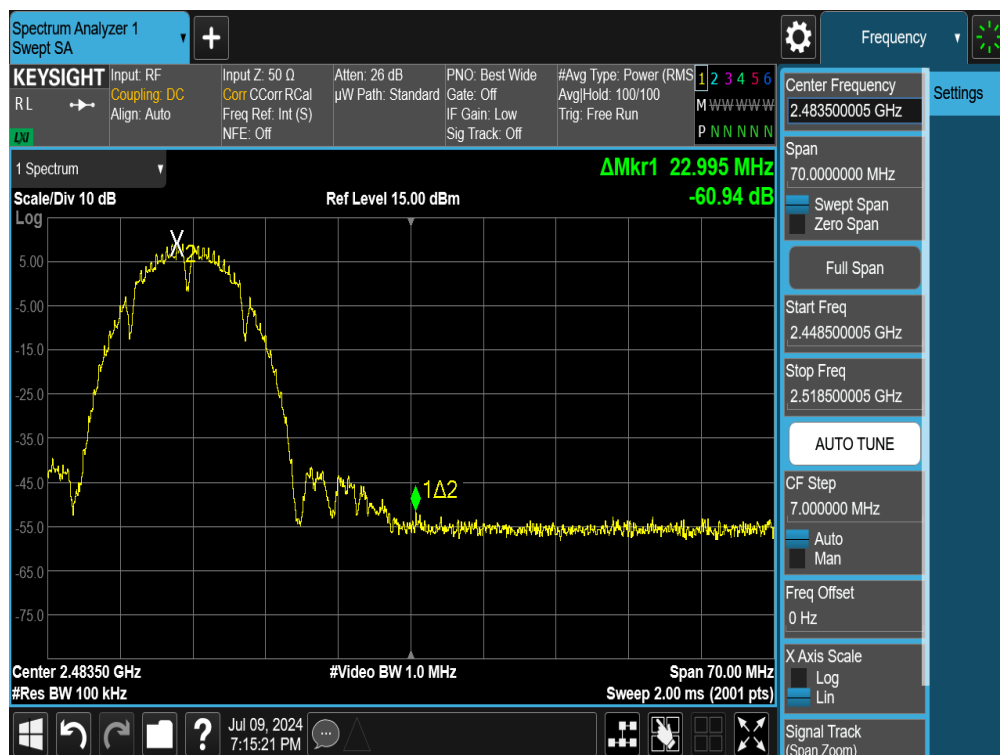
None.

FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 79 of 154

7.5.1 SISO Antenna-1 Conducted Band Edge Emissions

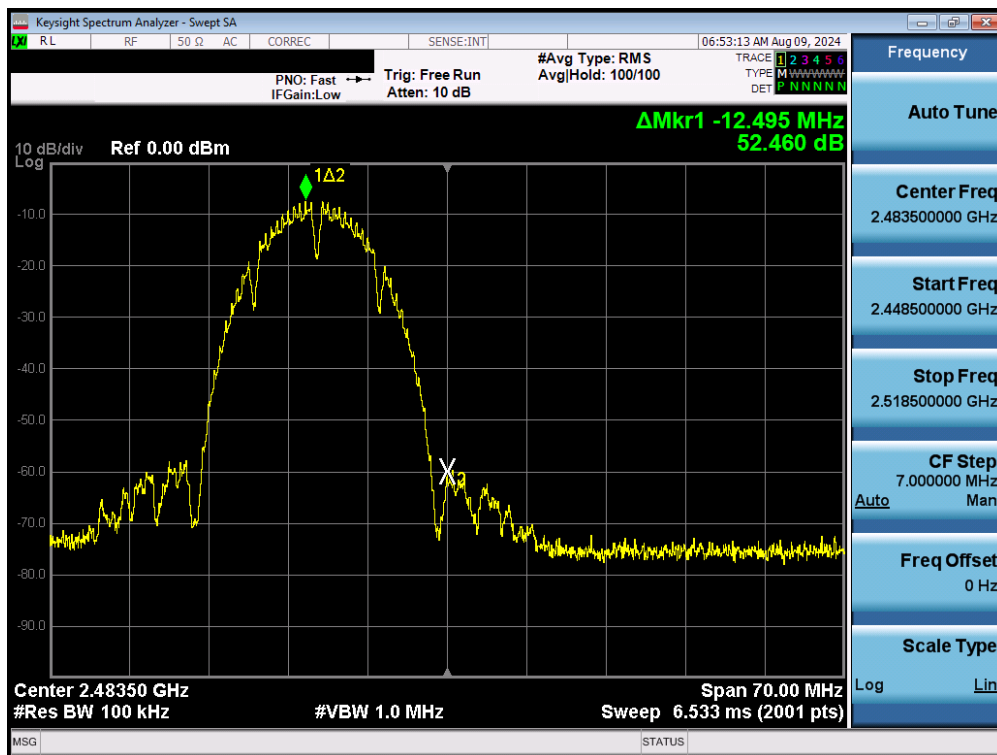
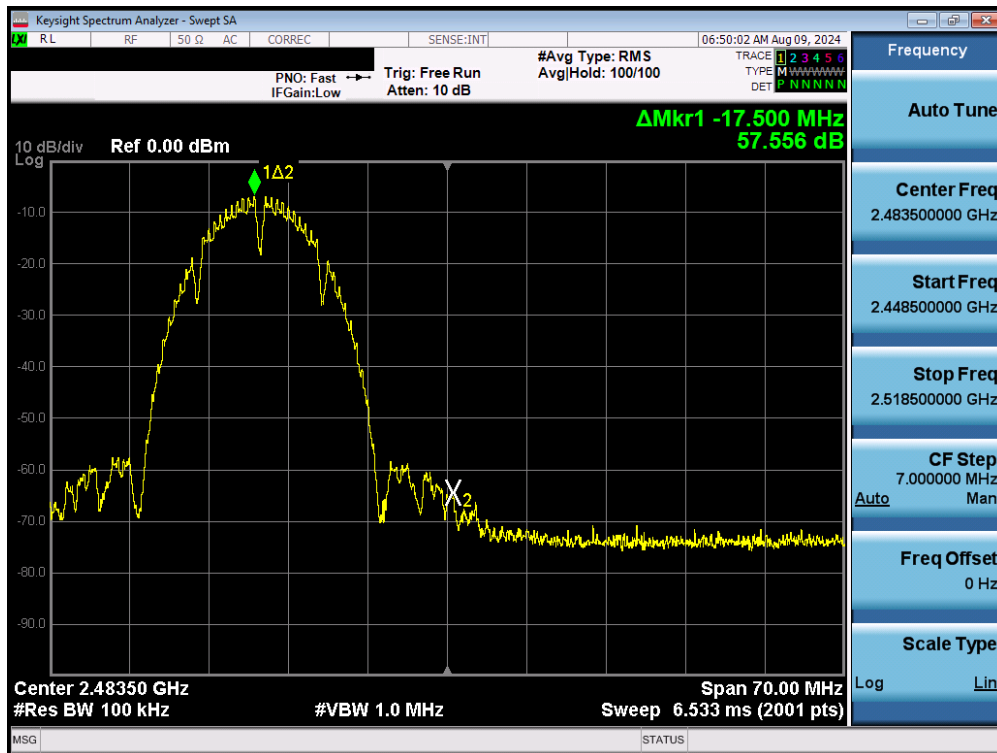


Plot 7-98. Band Edge Plot SISO ANT1 (802.11b – Ch. 1)

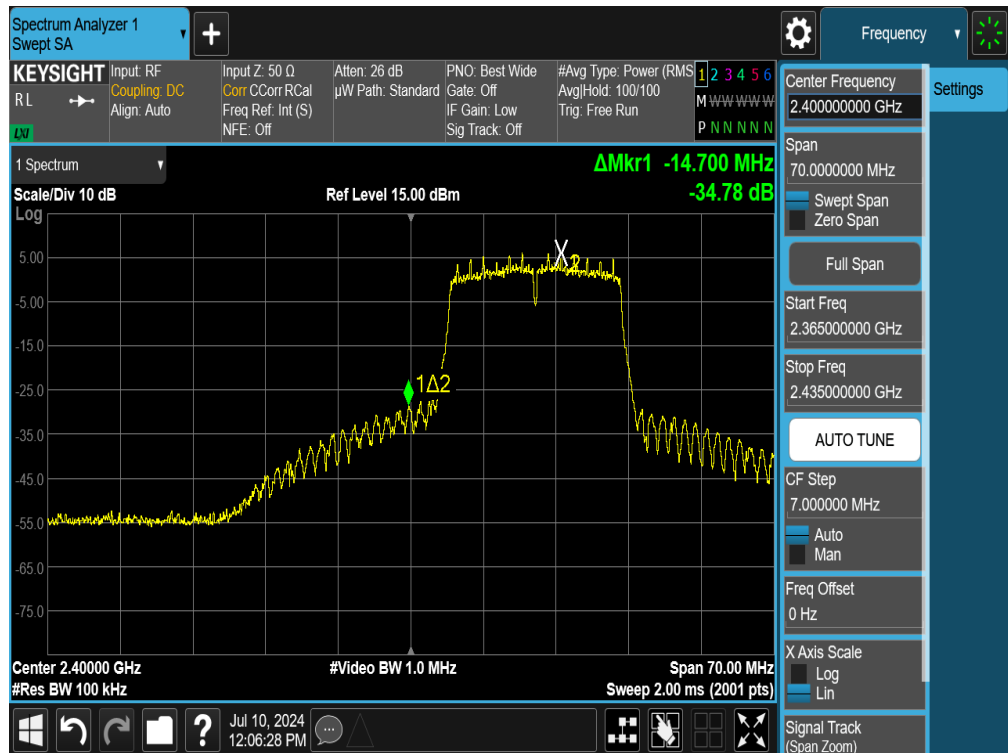


Plot 7-99. Band Edge Plot SISO ANT1 (802.11b – Ch. 11)

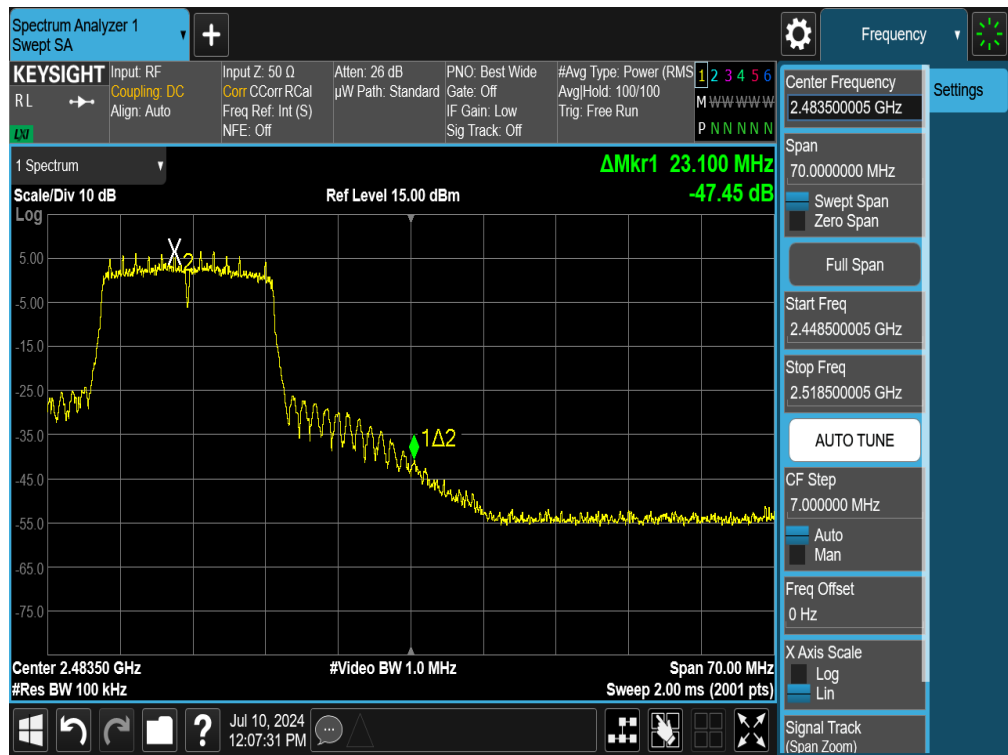
FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 80 of 154



FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 81 of 154

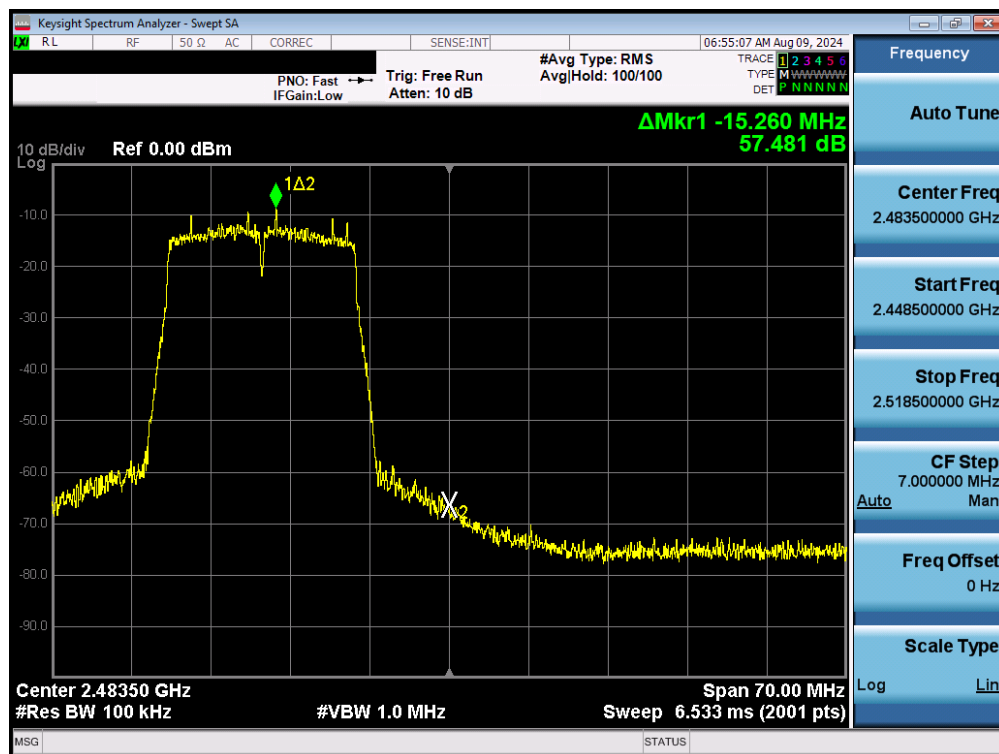


Plot 7-102. Band Edge Plot SISO ANT1 (802.11g– Ch. 1)

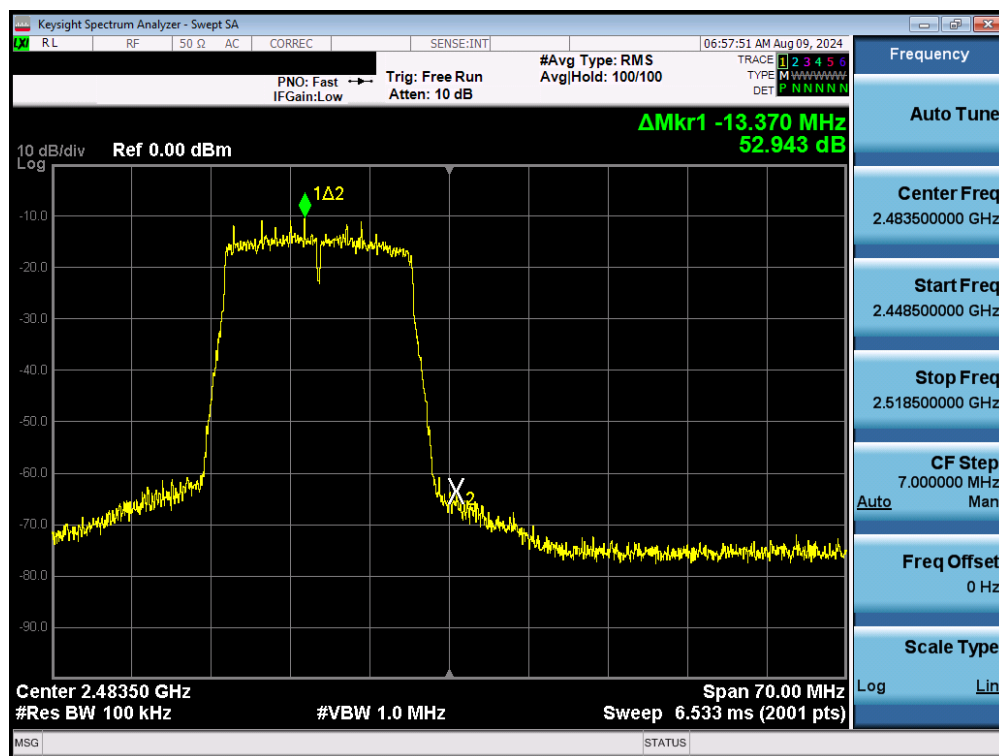


Plot 7-103. Band Edge Plot SISO ANT1 (802.11g – Ch. 11)

FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 82 of 154

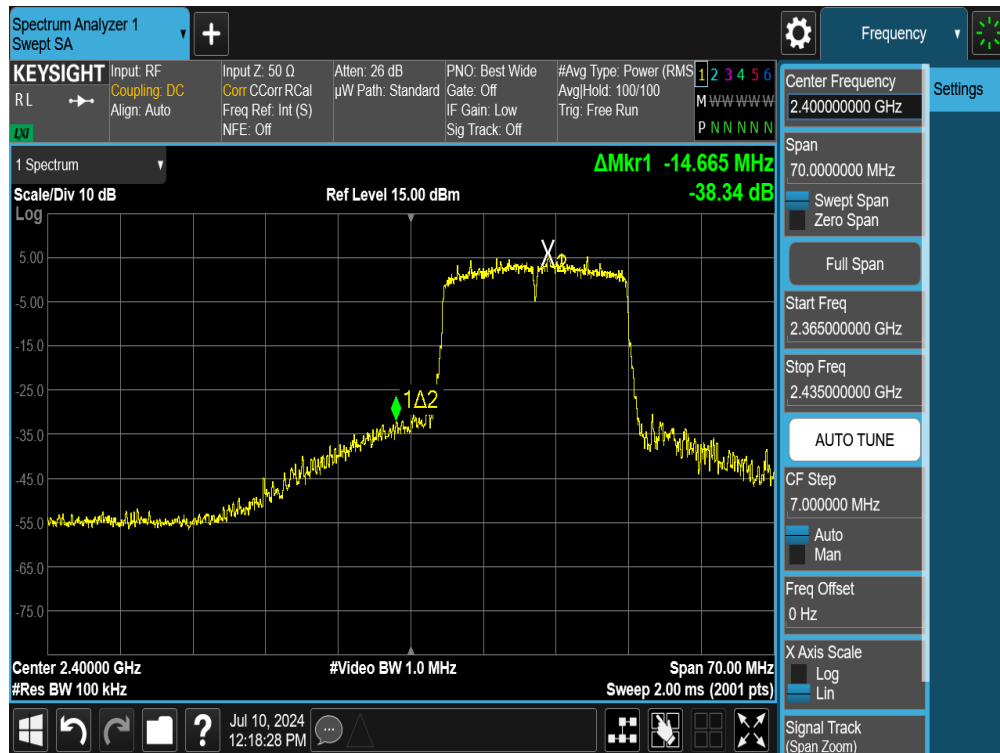


Plot 7-104. Band Edge Plot SISO ANT1 (802.11g – Ch. 12)

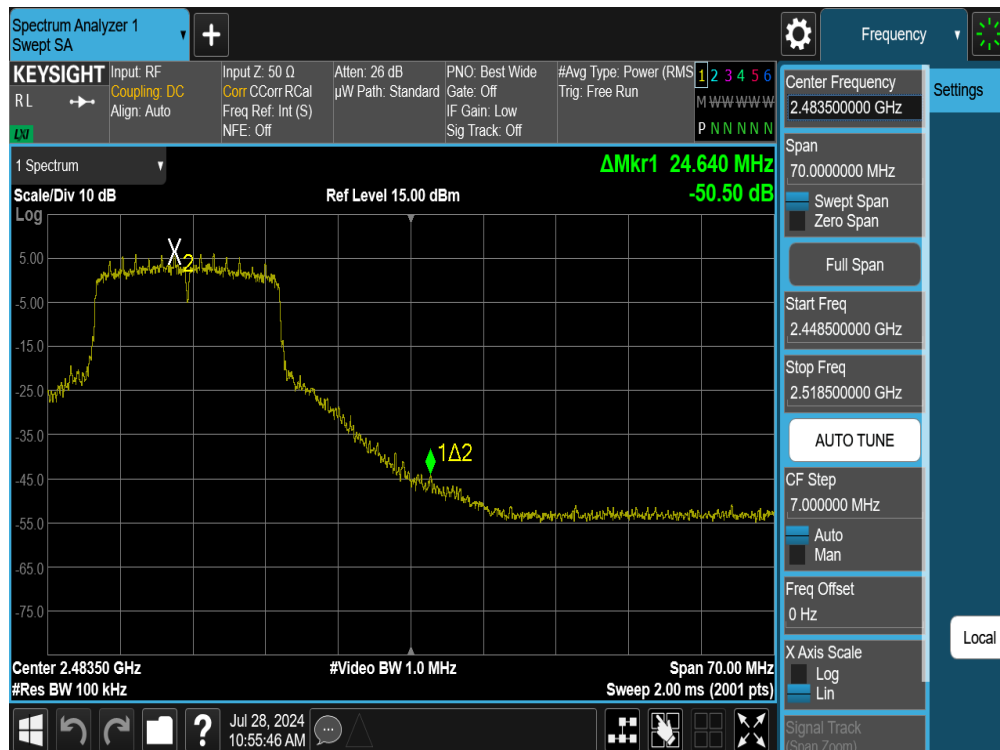


Plot 7-105. Band Edge Plot SISO ANT1 (802.11g – Ch. 13)

FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 83 of 154

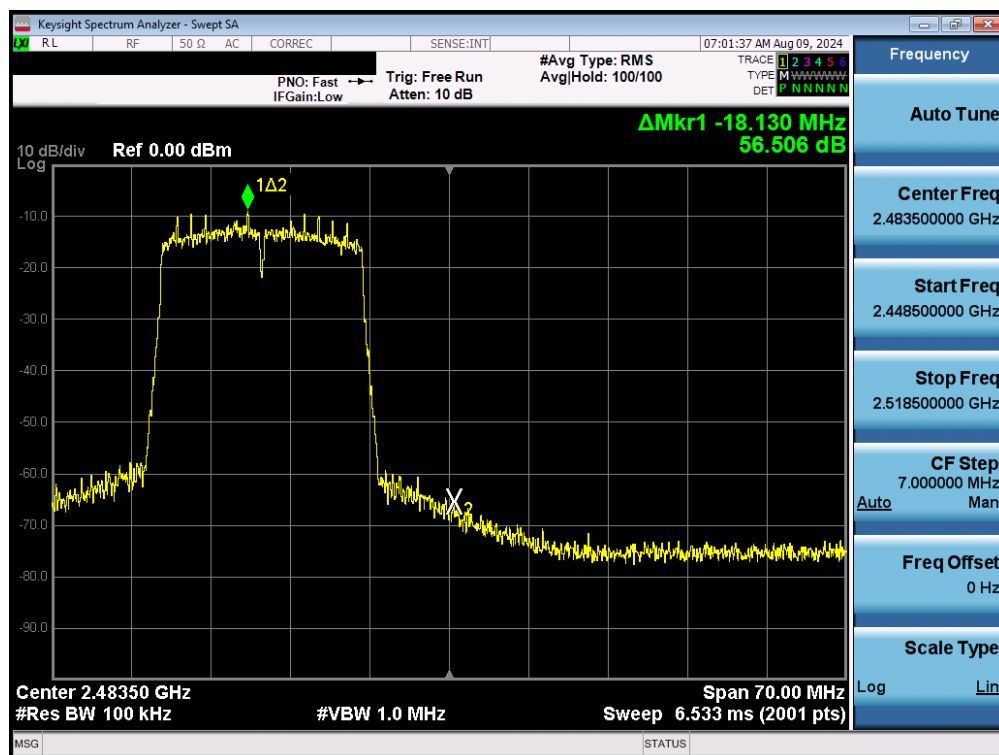


Plot 7-106. Band Edge Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 1)

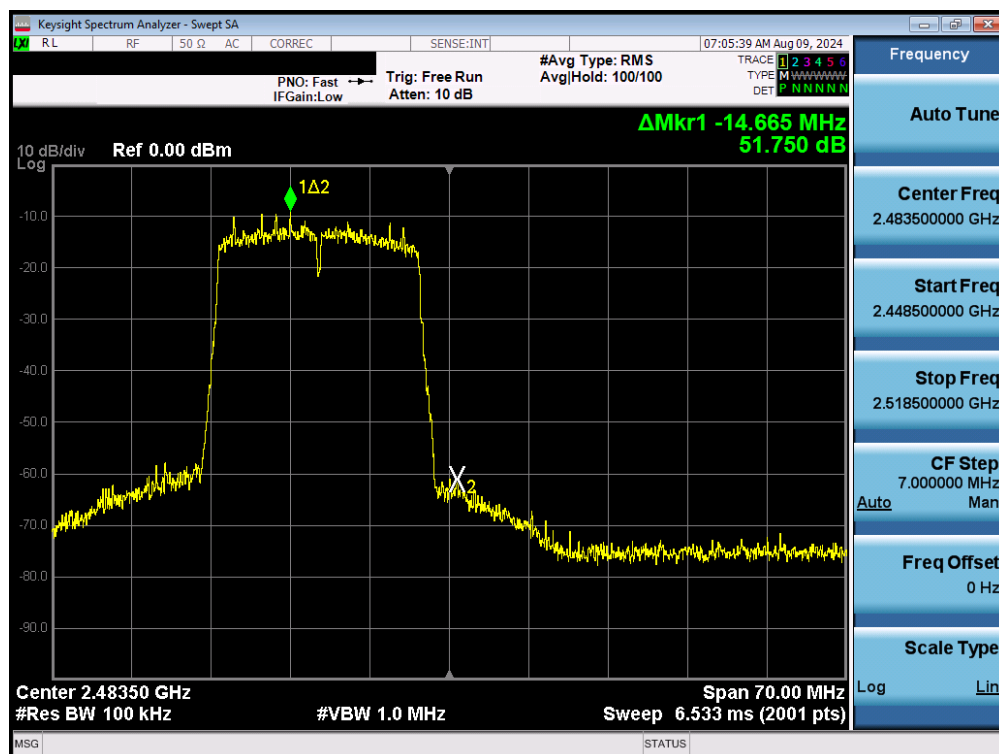


Plot 7-107. Band Edge Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 11)

FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 84 of 154

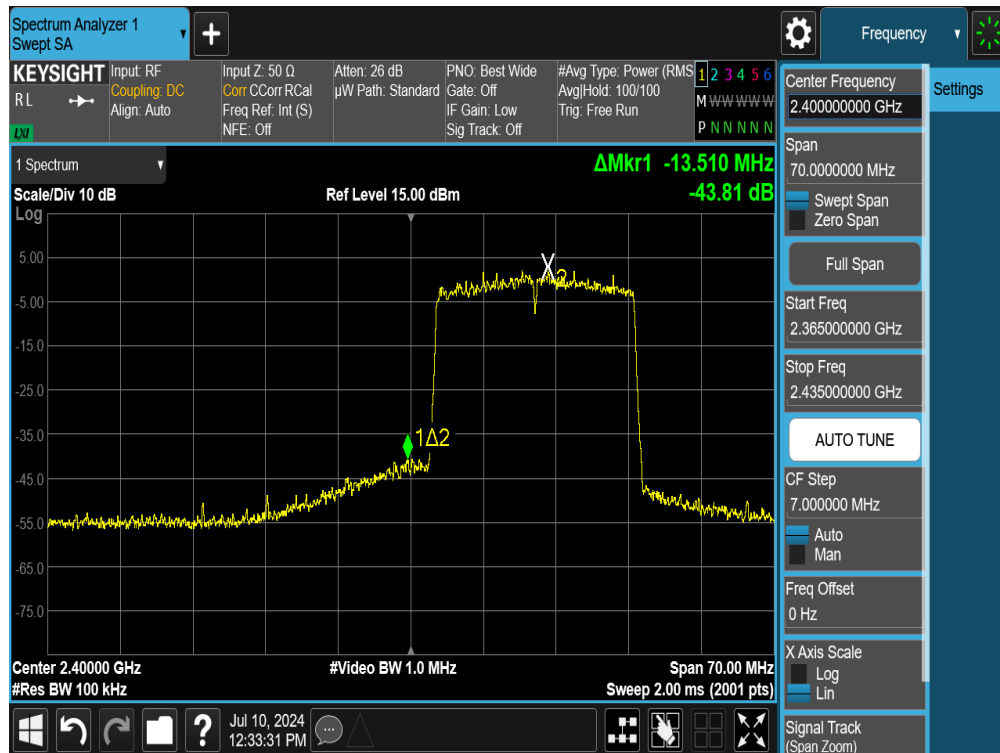


Plot 7-108. Band Edge Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 12)

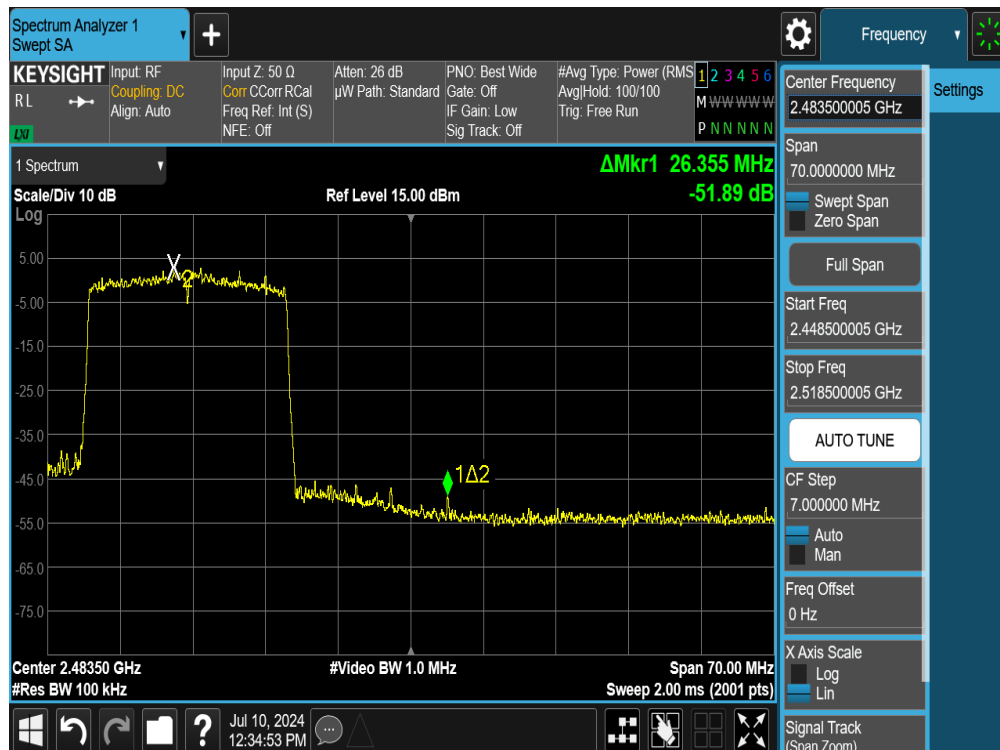


Plot 7-109. Band Edge Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 13)

FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 85 of 154

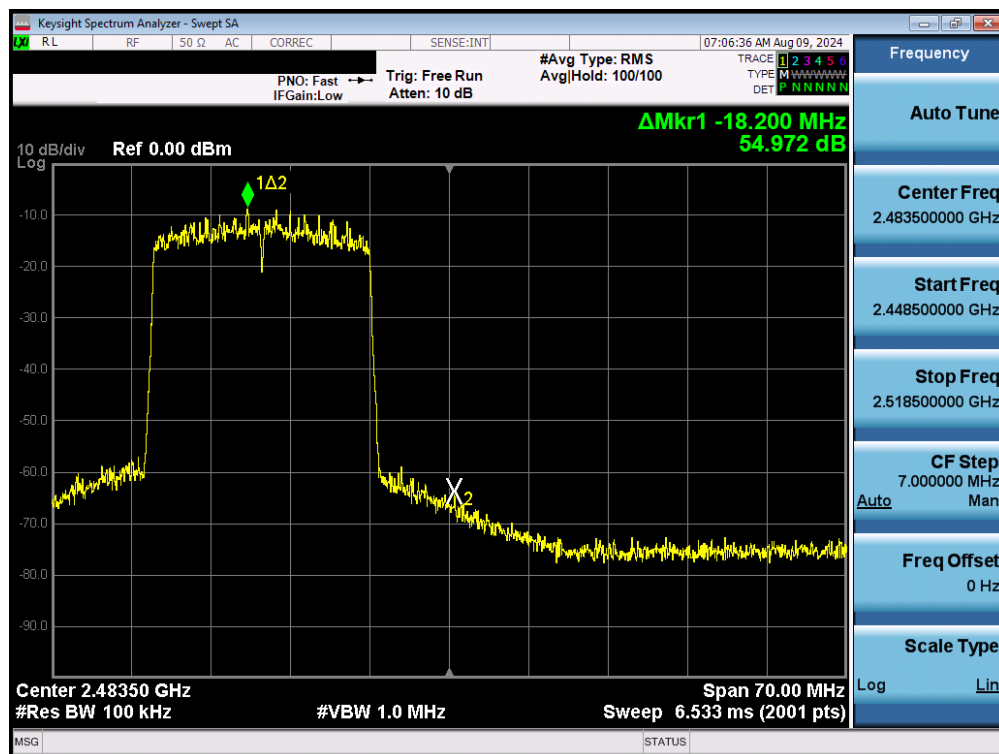


Plot 7-110. Band Edge Plot SISO ANT1 (802.11ax (2.4GHz) – Ch. 1)

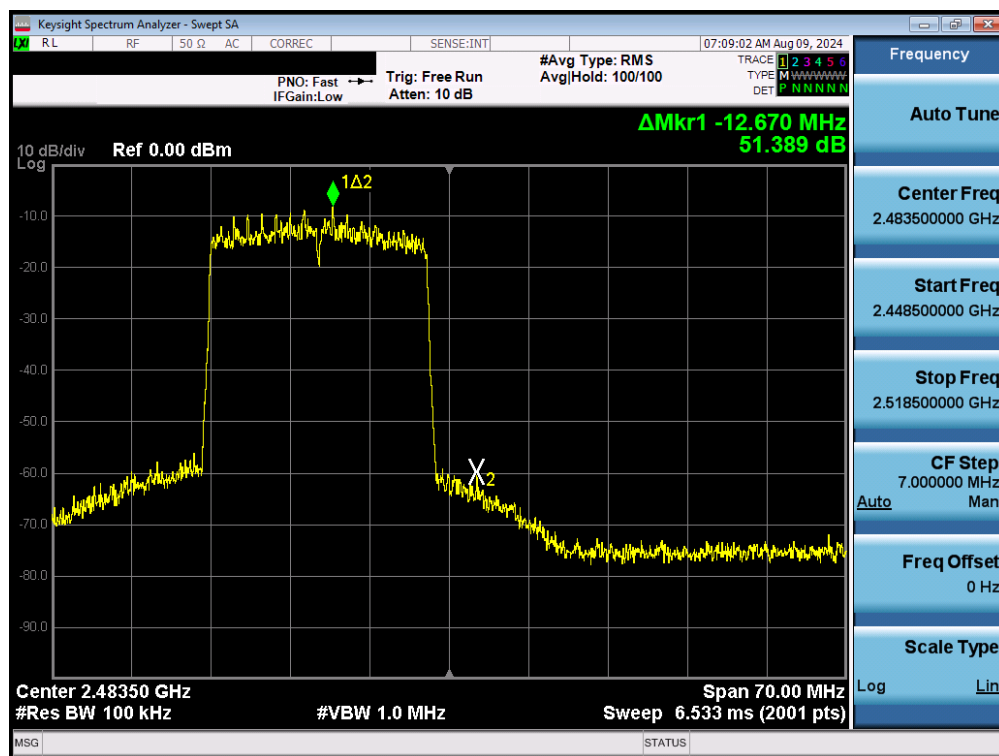


Plot 7-111. Band Edge Plot SISO ANT1 (802.11ax (2.4GHz) – Ch. 11)

FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 86 of 154



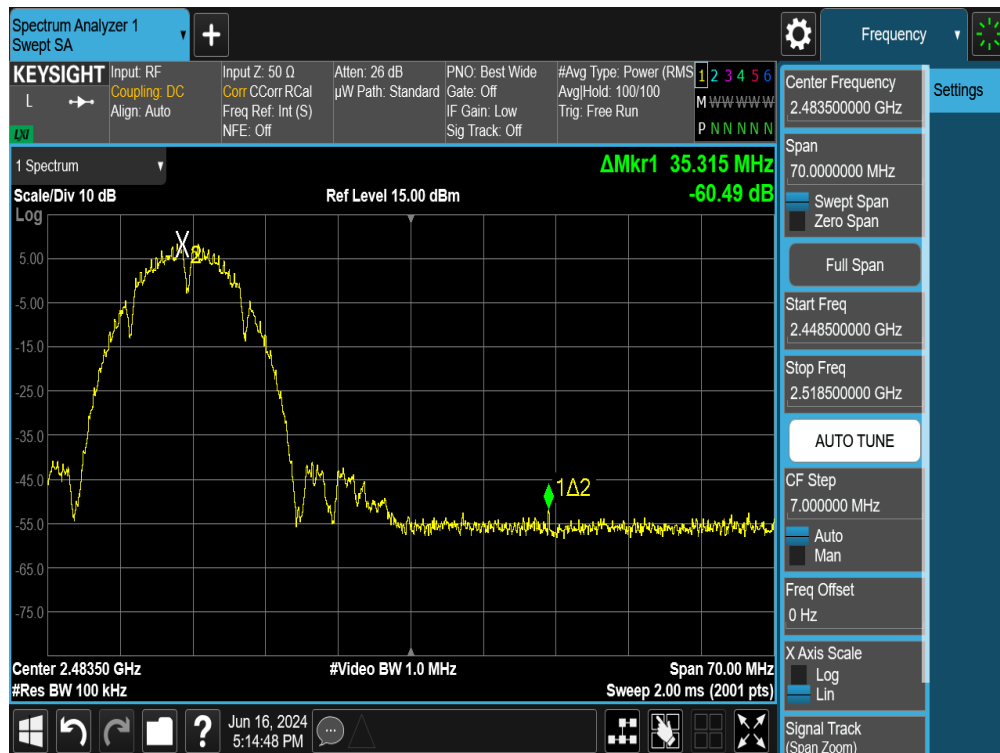
Plot 7-112. Band Edge Plot SISO ANT1 (802.11ax (2.4GHz) – Ch. 12)



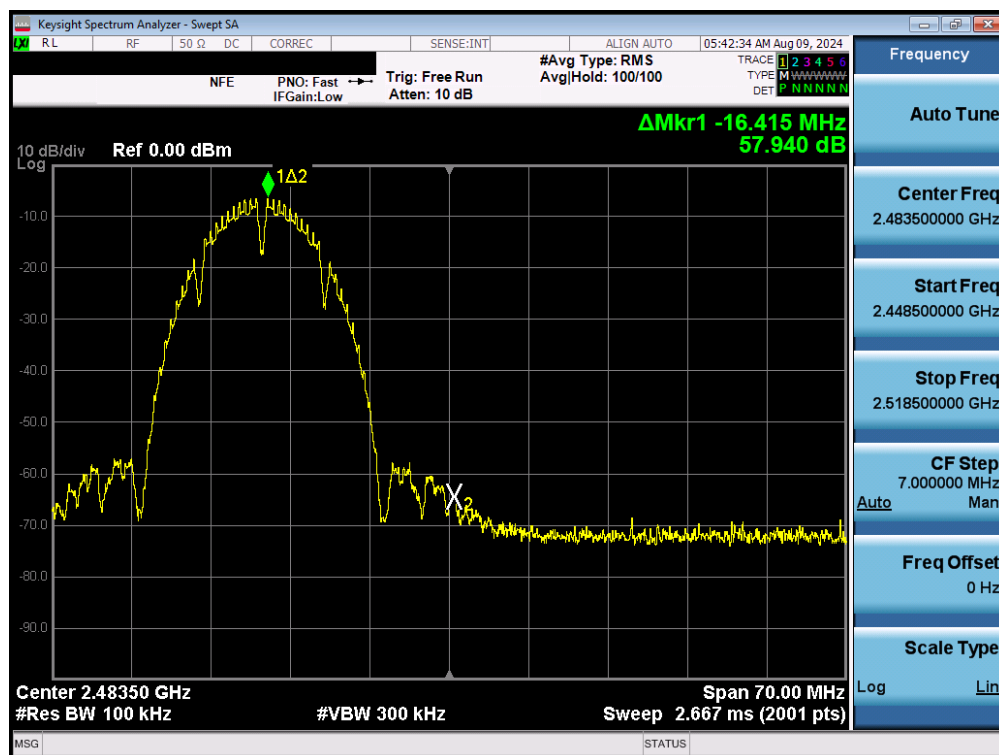
Plot 7-113. Band Edge Plot SISO ANT1 (802.11ax (2.4GHz) – Ch. 13)

FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 87 of 154

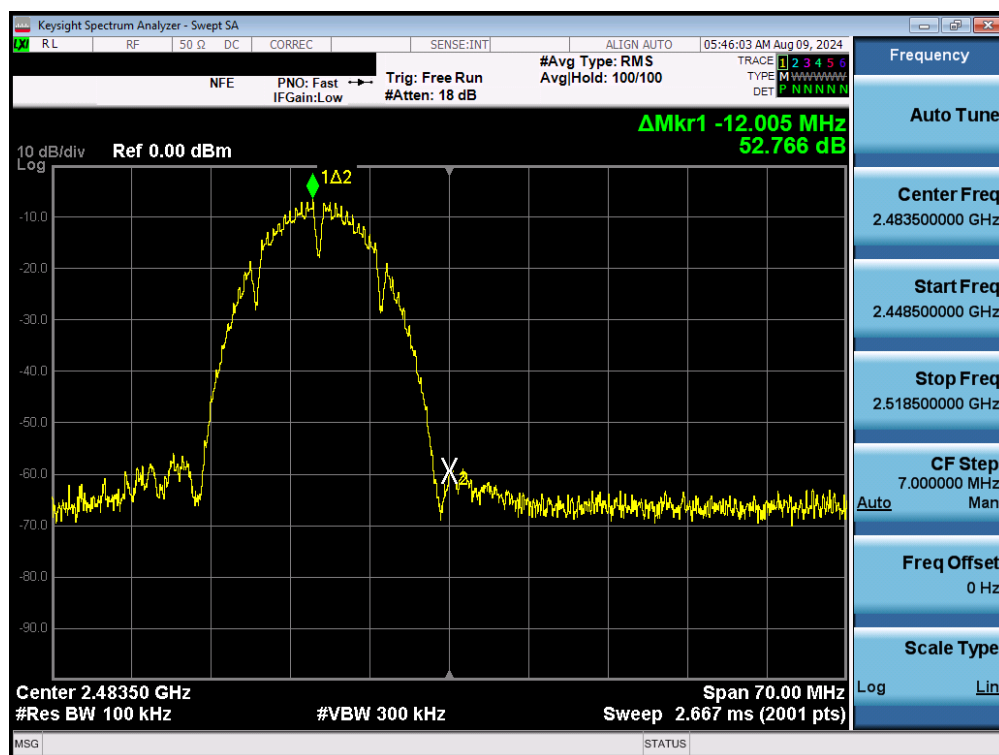
7.5.2 SISO Antenna-2 Conducted Band Edge Emissions



FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 88 of 154

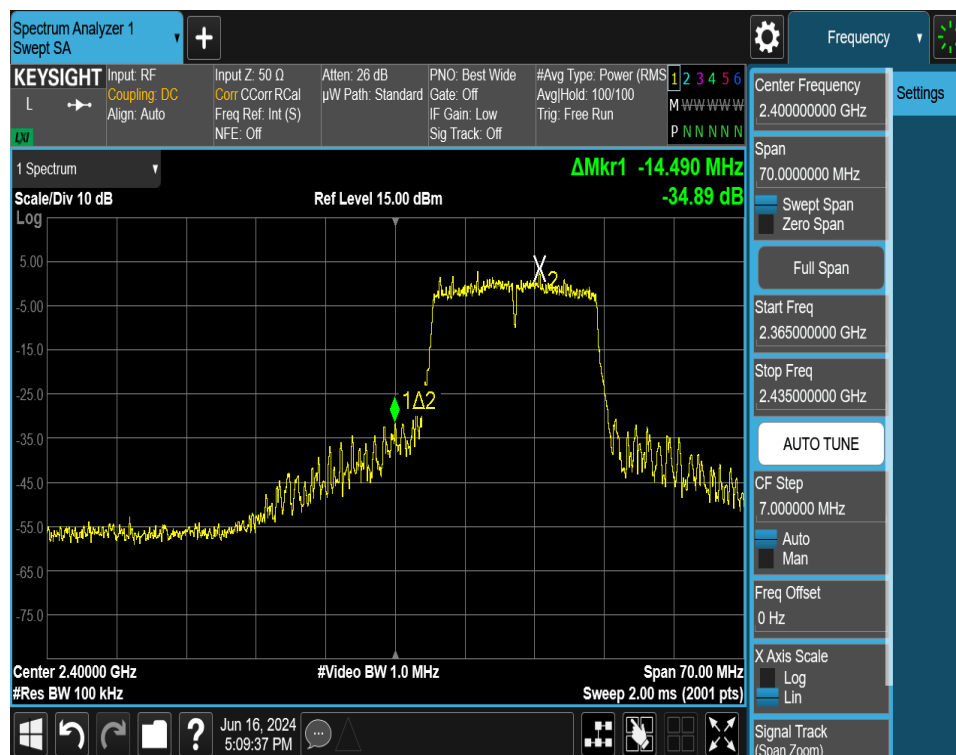


Plot 7-116. Band Edge Plot SISO ANT2 (802.11b – Ch. 12)

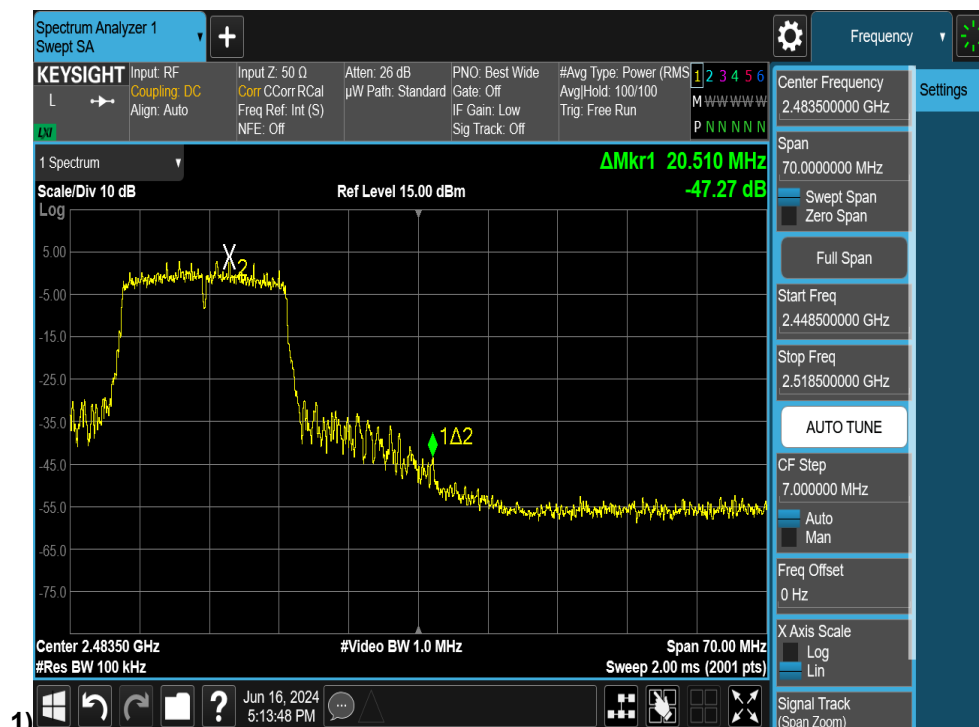


Plot 7-117. Band Edge Plot SISO ANT2 (802.11b – Ch. 13)

FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 89 of 154

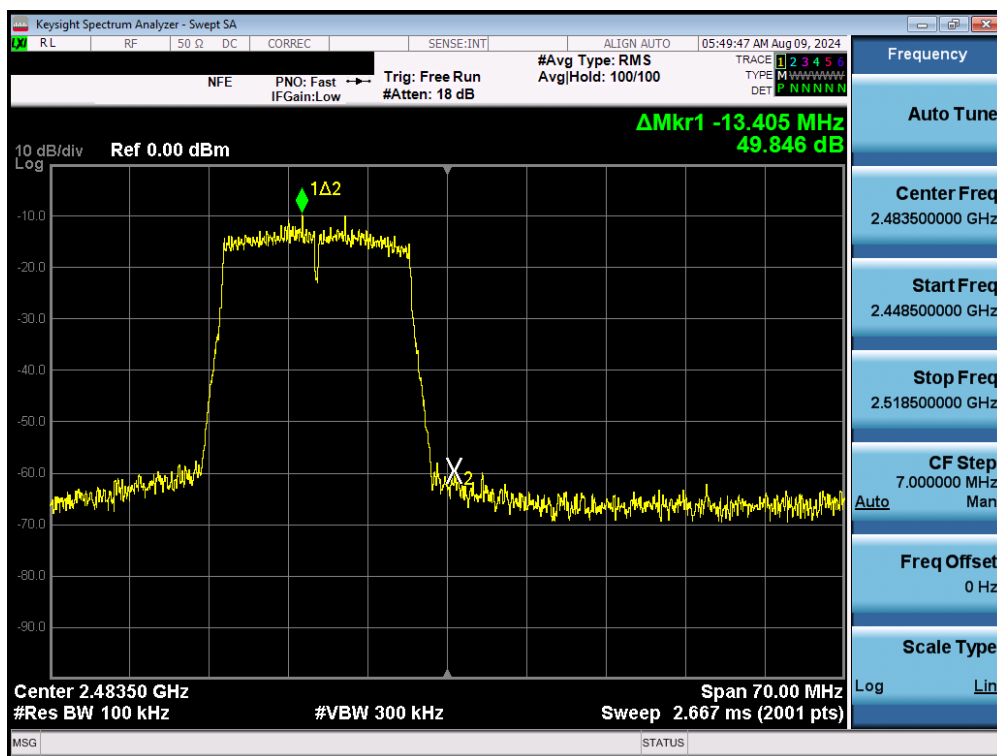
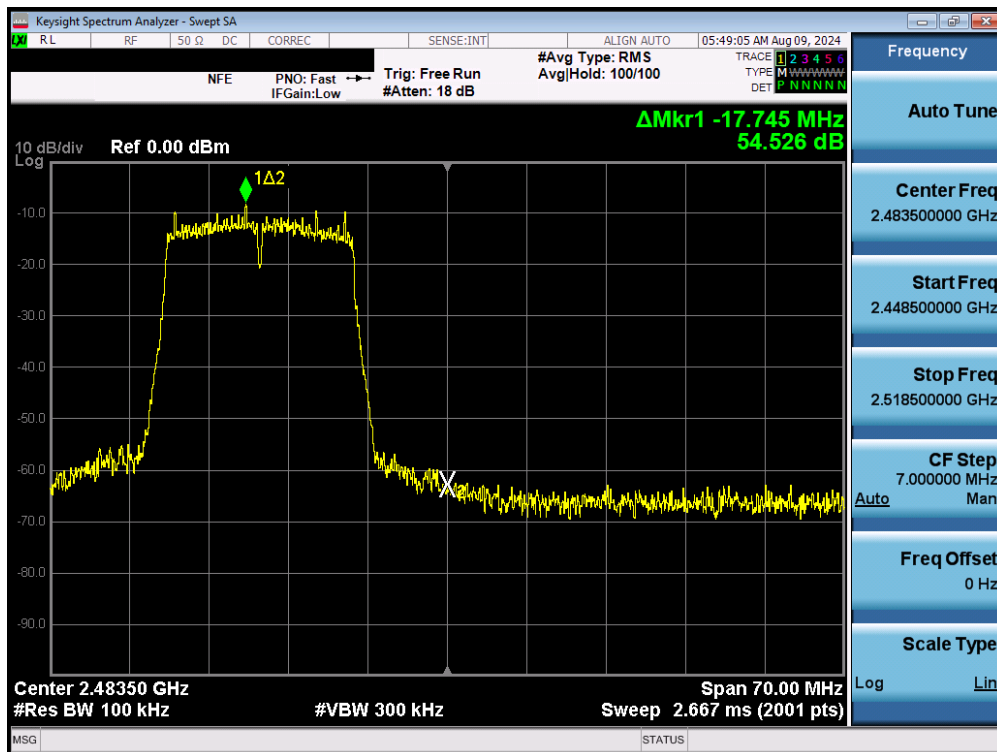


Plot 7-118. Band Edge Plot SISO ANT2 (802.11g– Ch. 1)

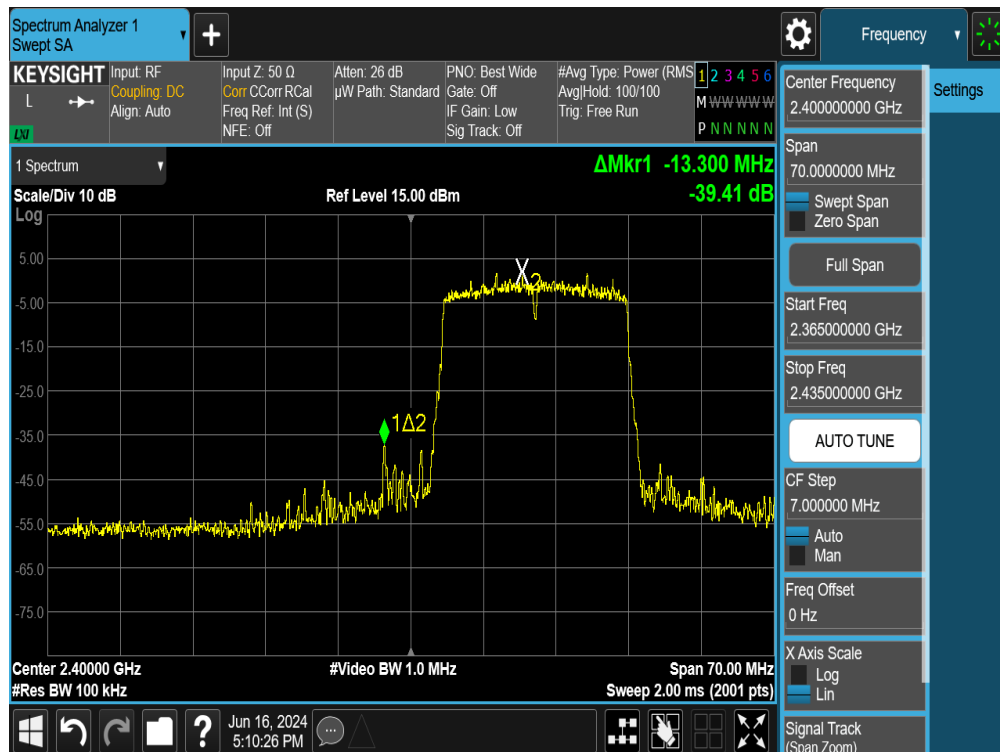


Plot 7-119. Band Edge Plot SISO ANT2 (802.11g – Ch. 11)

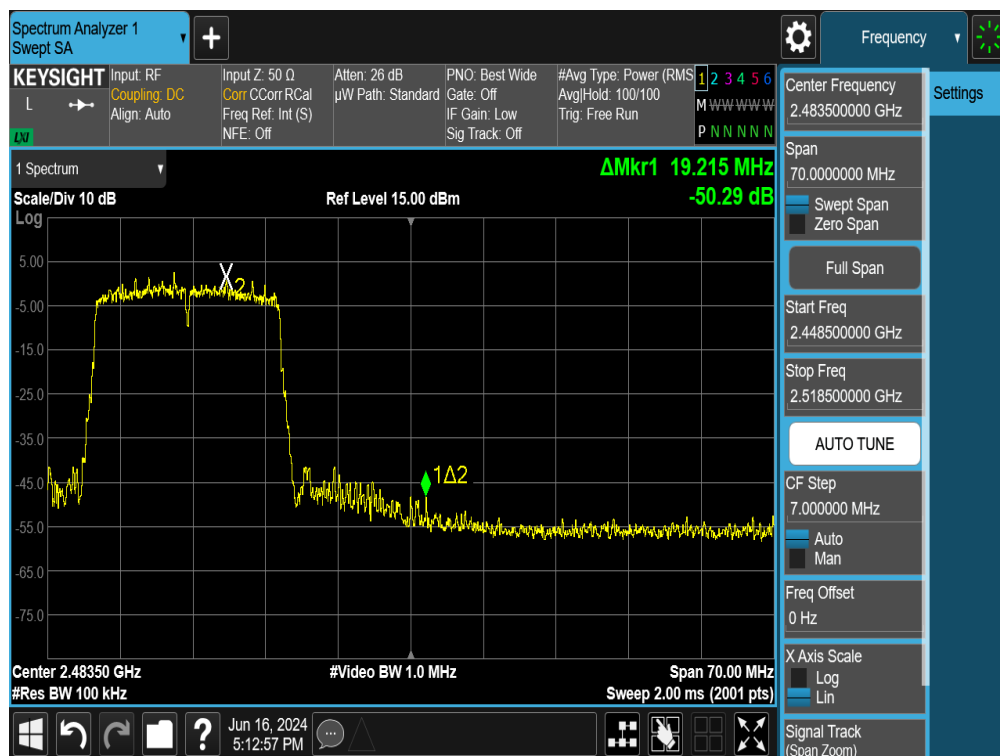
FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 90 of 154



FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 91 of 154

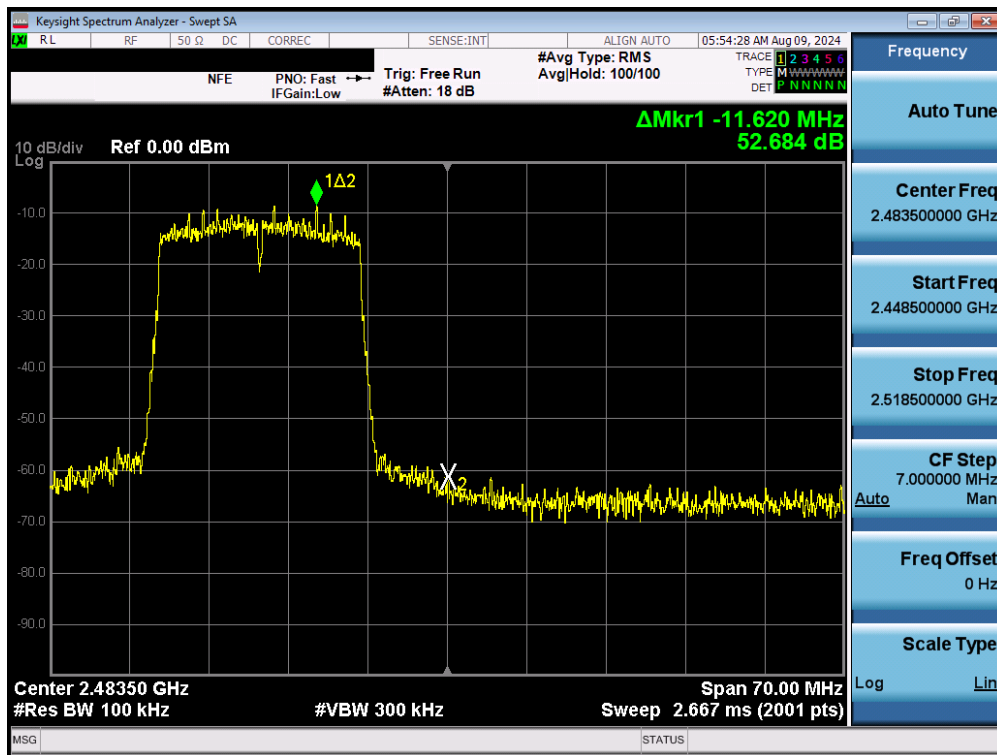


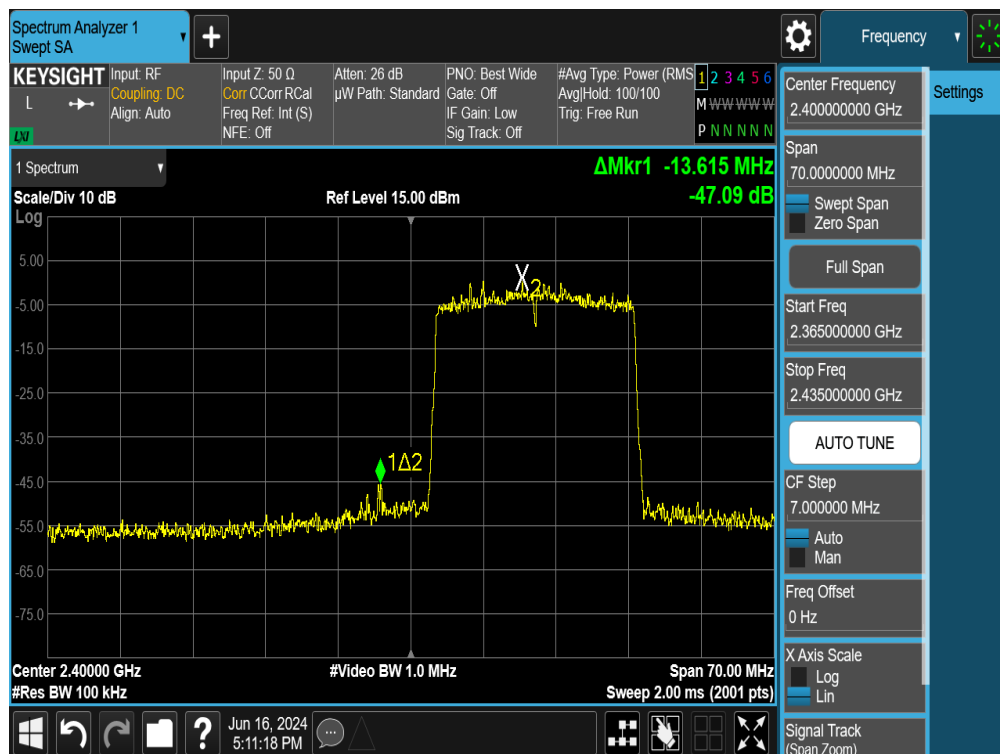
Plot 7-122. Band Edge Plot SISO ANT2 (802.11n (2.4GHz) – Ch. 1)



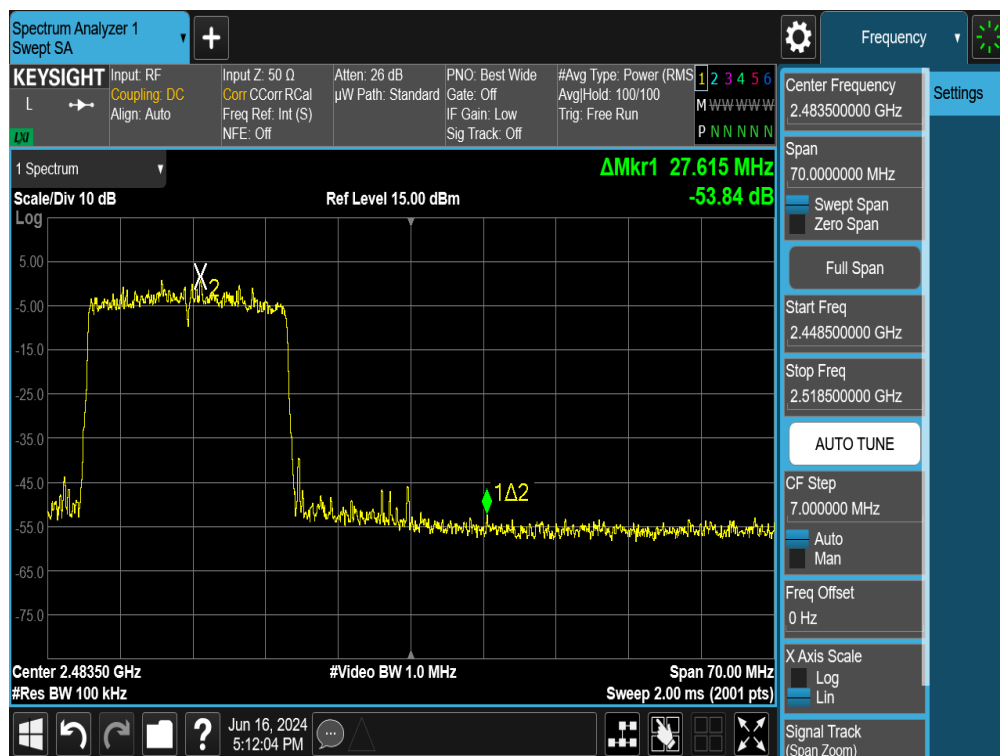
Plot 7-123. Band Edge Plot SISO ANT2 (802.11n (2.4GHz) – Ch. 11)

FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 92 of 154



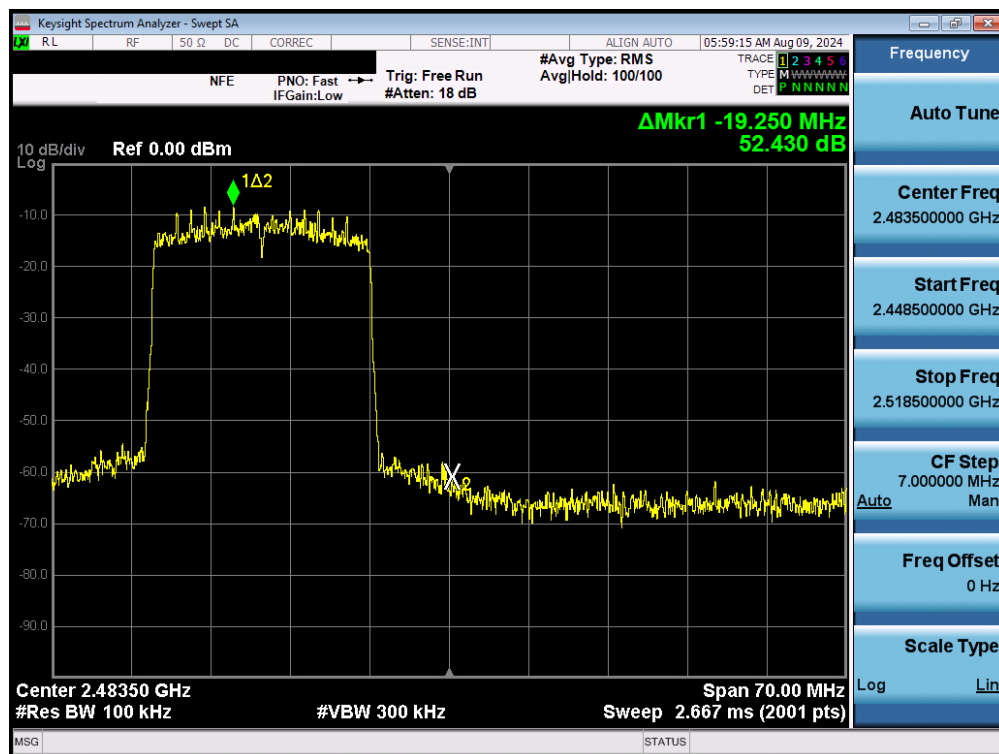


Plot 7-126. Band Edge Plot SISO ANT2 (802.11ax (2.4GHz) – Ch. 1)

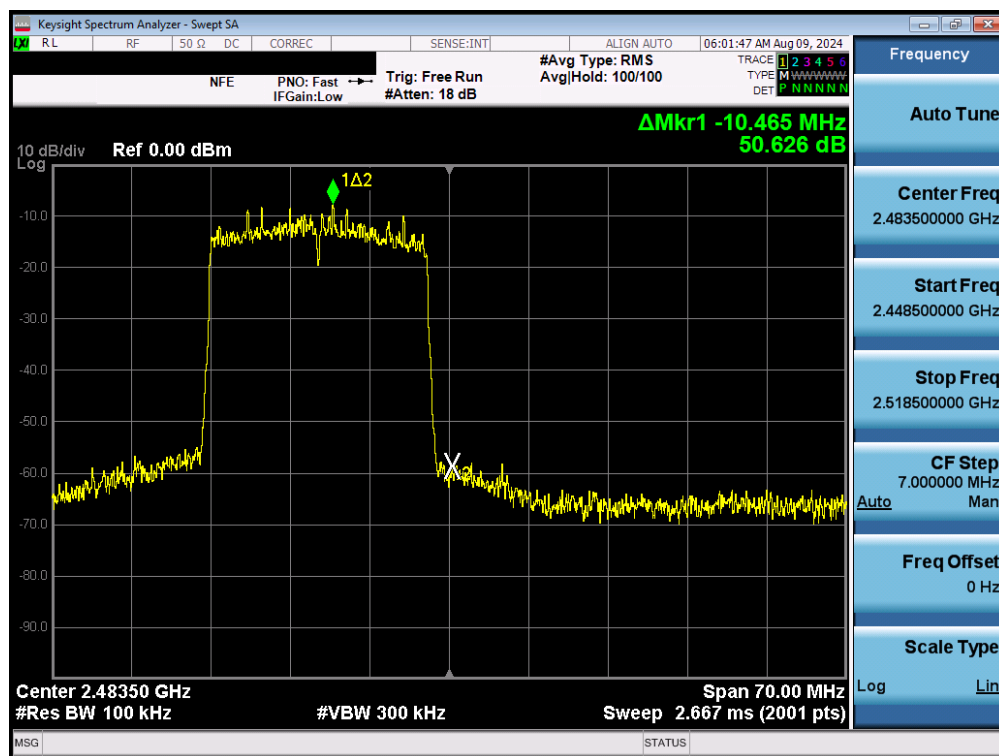


Plot 7-127. Band Edge Plot SISO ANT2 (802.11ax (2.4GHz) – Ch. 11)

FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 94 of 154



Plot 7-128. Band Edge Plot SISO ANT2 (802.11ax (2.4GHz) – Ch. 12)



Plot 7-129. Band Edge Plot SISO ANT2 (802.11ax (2.4GHz) – Ch. 13)

FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 95 of 154

7.5.3 MIMO Conducted Band Edge Emissions

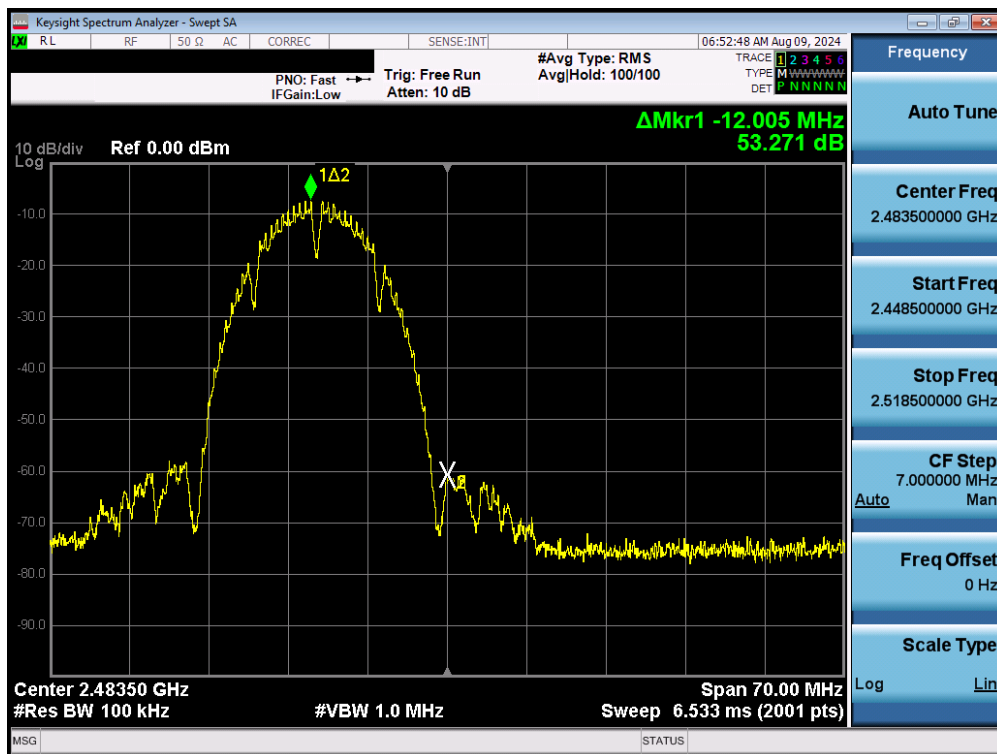
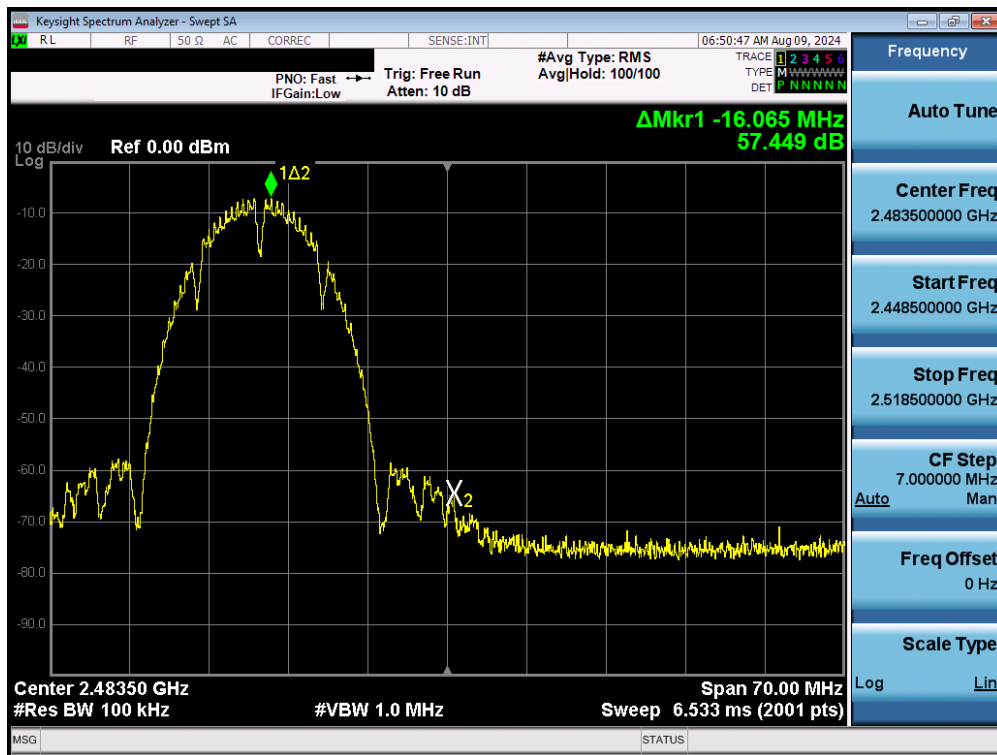


Plot 7-130. Band Edge Plot MIMO ANT1 (802.11b – Ch. 1)

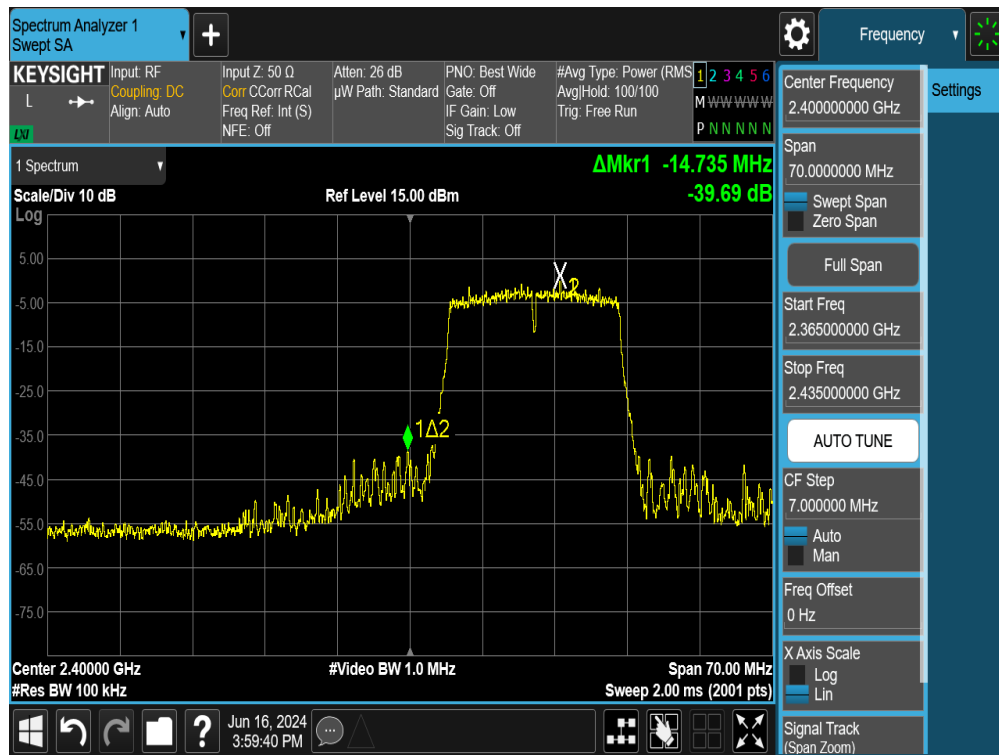


Plot 7-131. Band Edge Plot MIMO ANT1 (802.11b – Ch. 11)

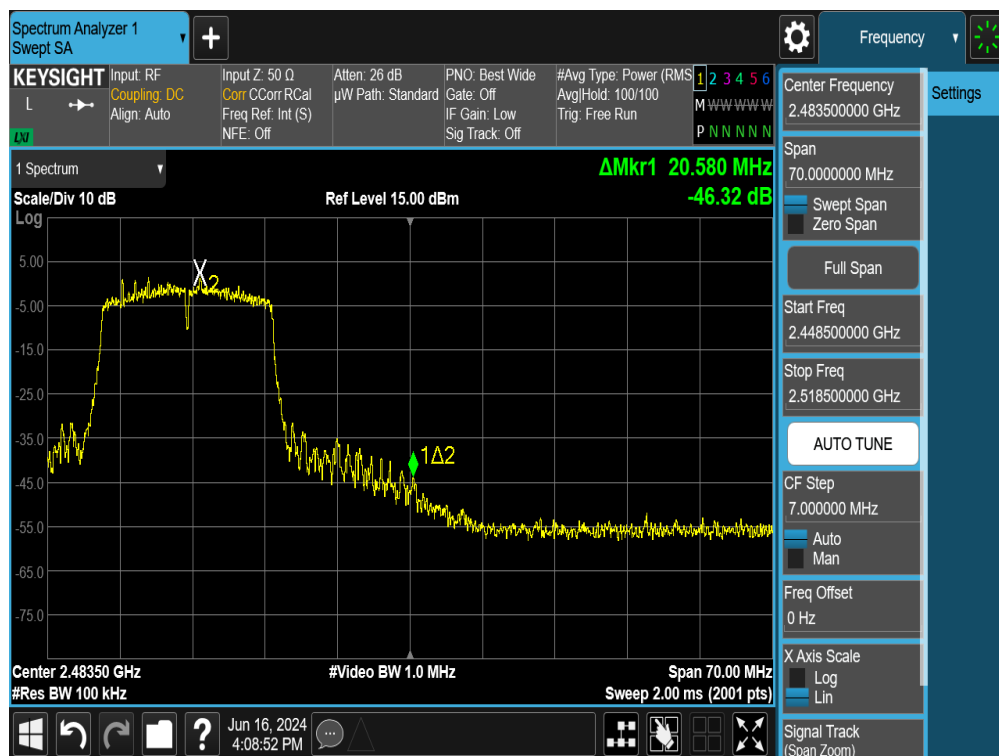
FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 96 of 154



FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 97 of 154

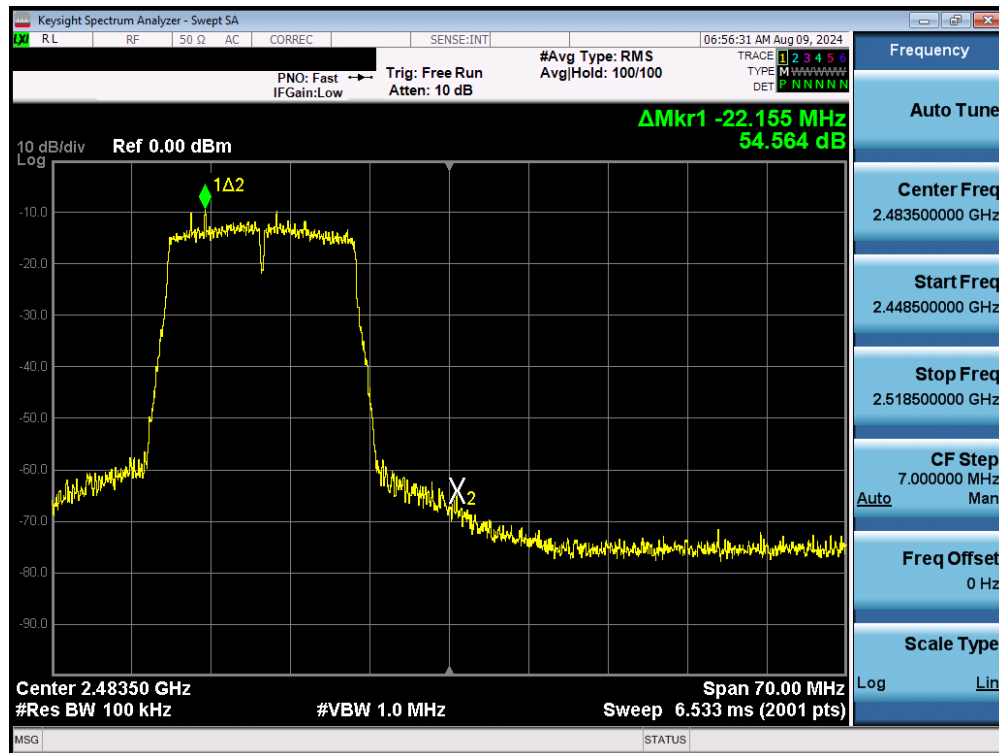


Plot 7-134. Band Edge Plot MIMO ANT1 (802.11g– Ch. 1)

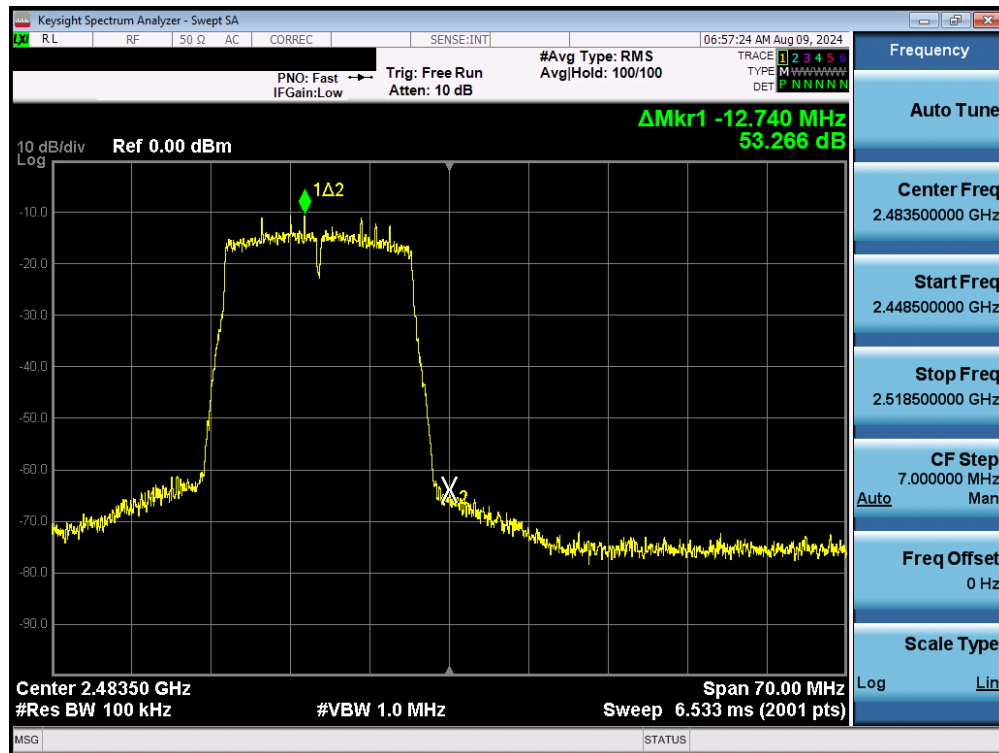


Plot 7-135. Band Edge Plot MIMO ANT1 (802.11g – Ch. 11)

FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 98 of 154

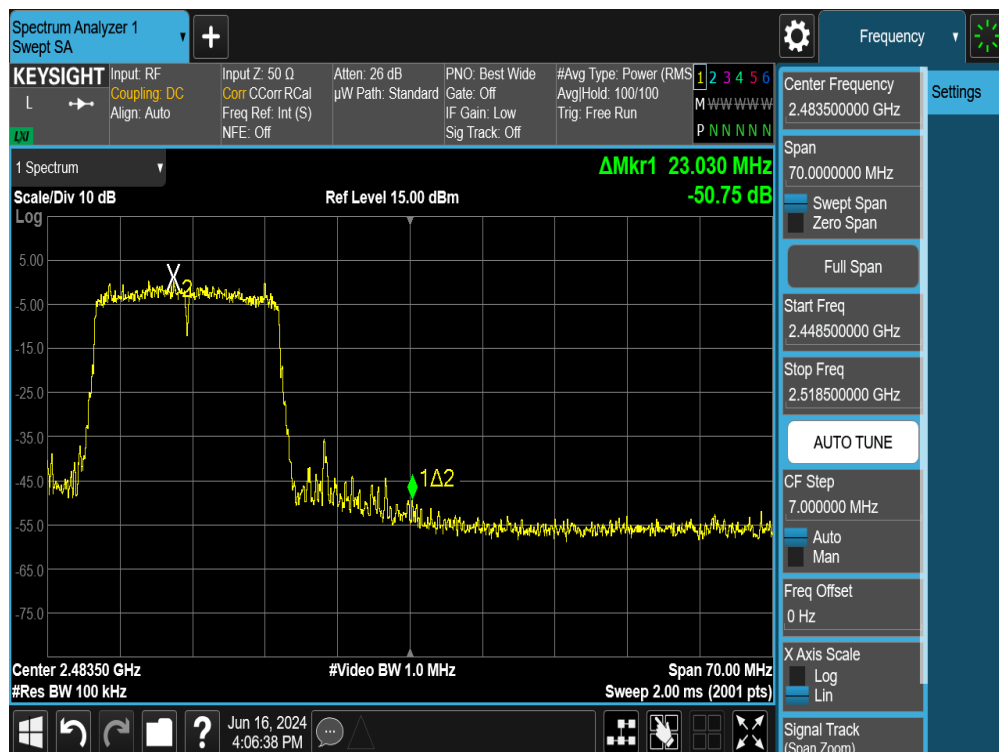
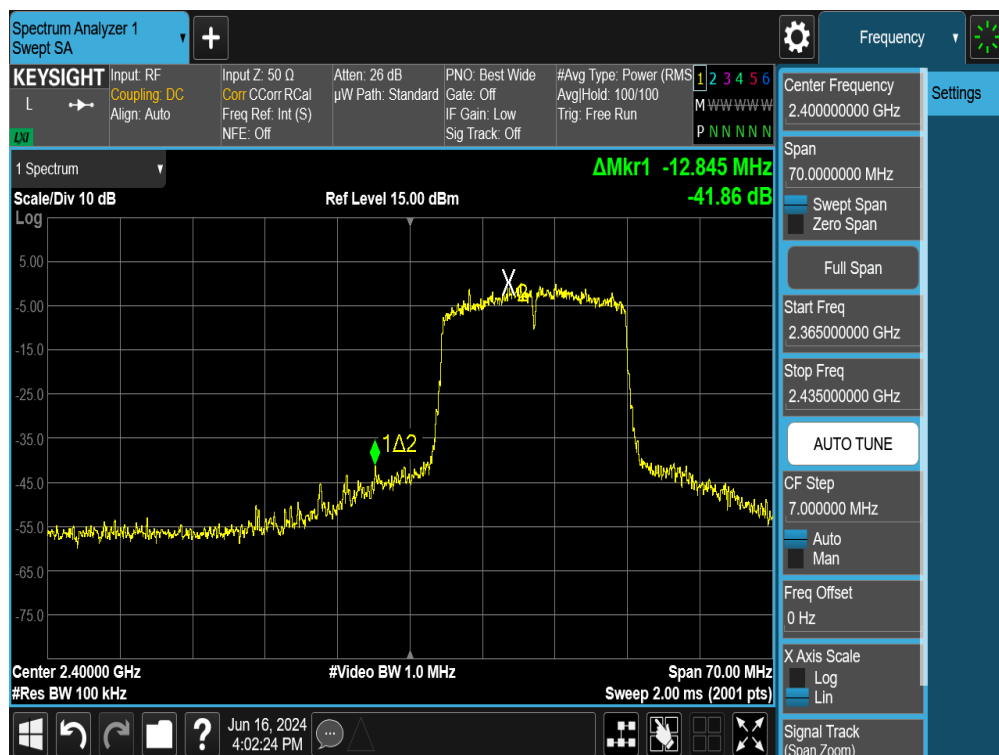


Plot 7-136. Band Edge Plot MIMO ANT1 (802.11g – Ch. 12)

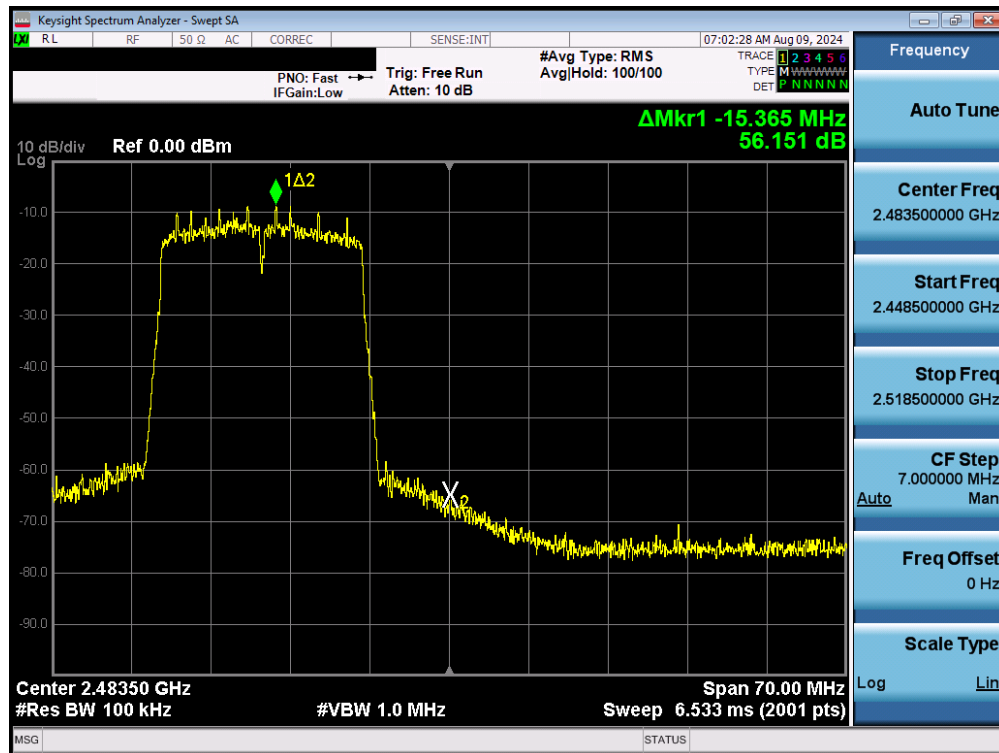


Plot 7-137. Band Edge Plot MIMO ANT1 (802.11g – Ch. 13)

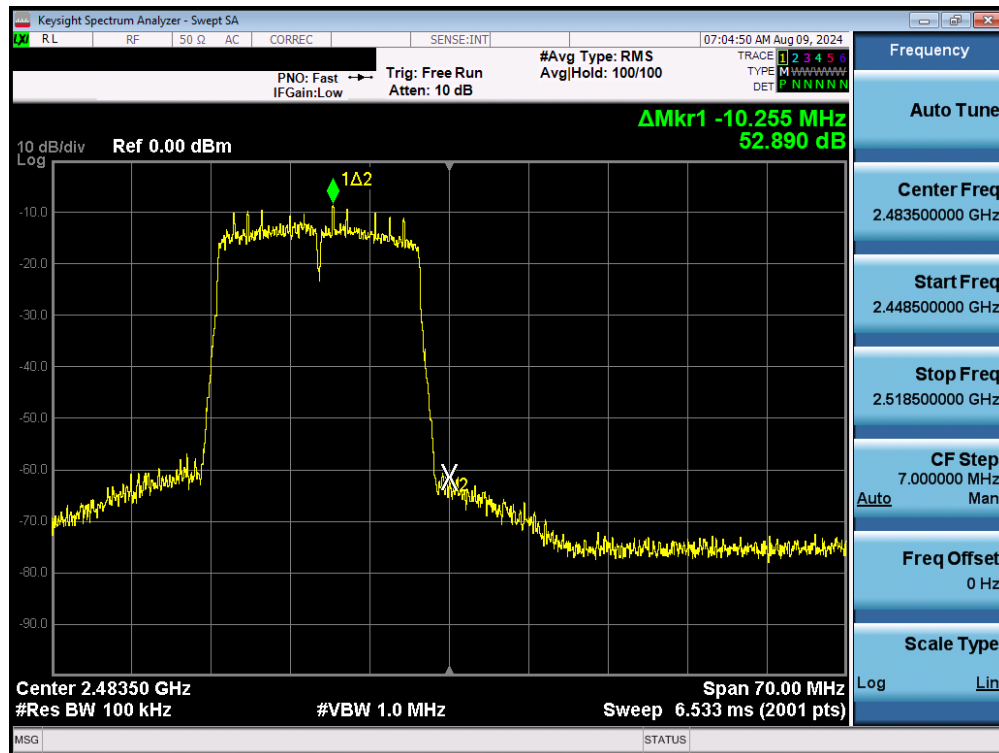
FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 99 of 154



FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 100 of 154



Plot 7-140. Band Edge Plot MIMO ANT1 (802.11n (2.4GHz) – Ch. 12)



Plot 7-141. Band Edge Plot MIMO ANT1 (802.11n (2.4GHz) – Ch. 13)

FCC ID: A3LSMX820	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140040-03-R1.A3L	Test Dates: 6/10/2024 - 7/30/2024	EUT Type: Portable Tablet	Page 101 of 154