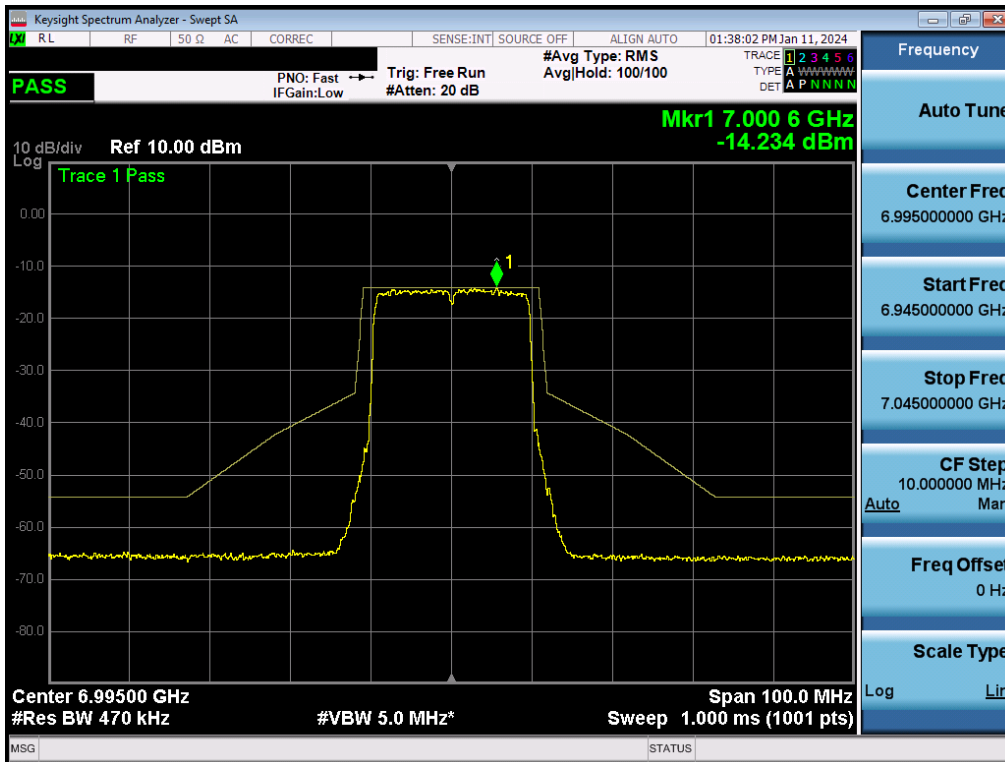
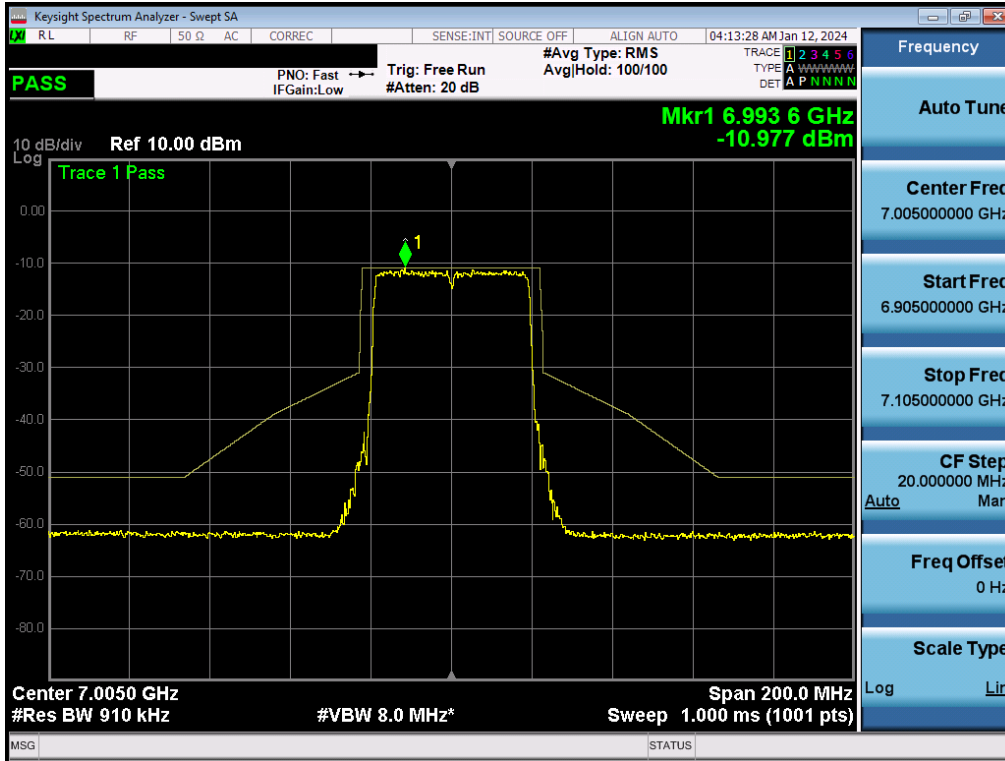


Plot 7-340. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11be (Full Tone) (UNII Band 7) – Ch. 127) - LPI

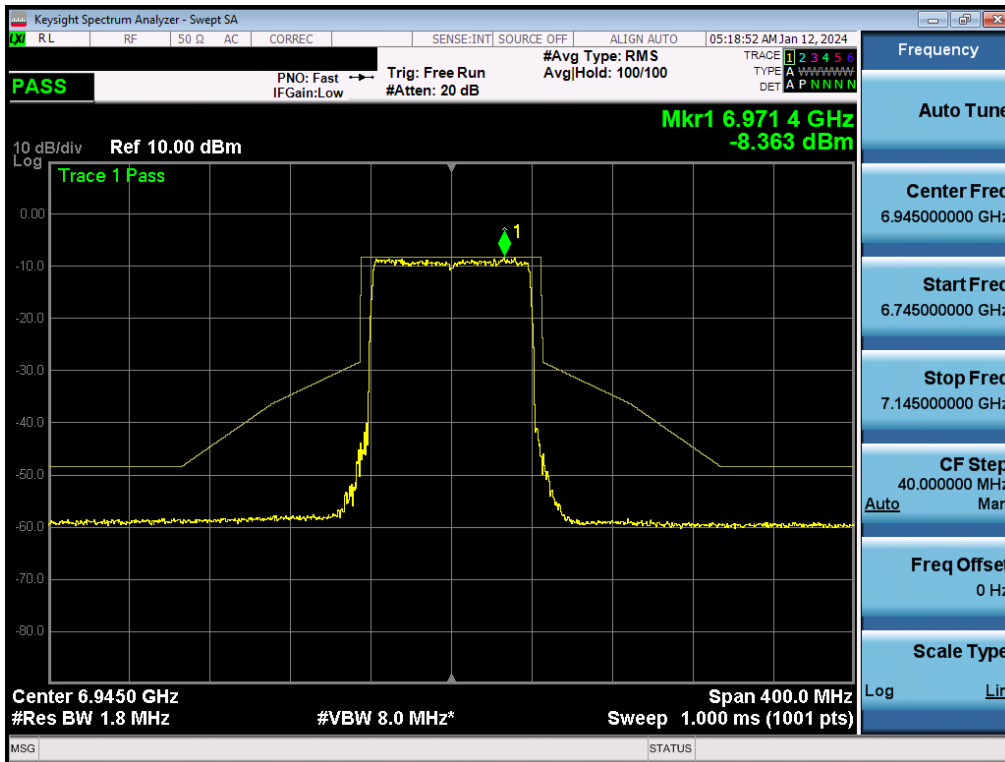


Plot 7-341. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11be (Full Tone) (UNII Band 8) – Ch. 209) - LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 219 of 277

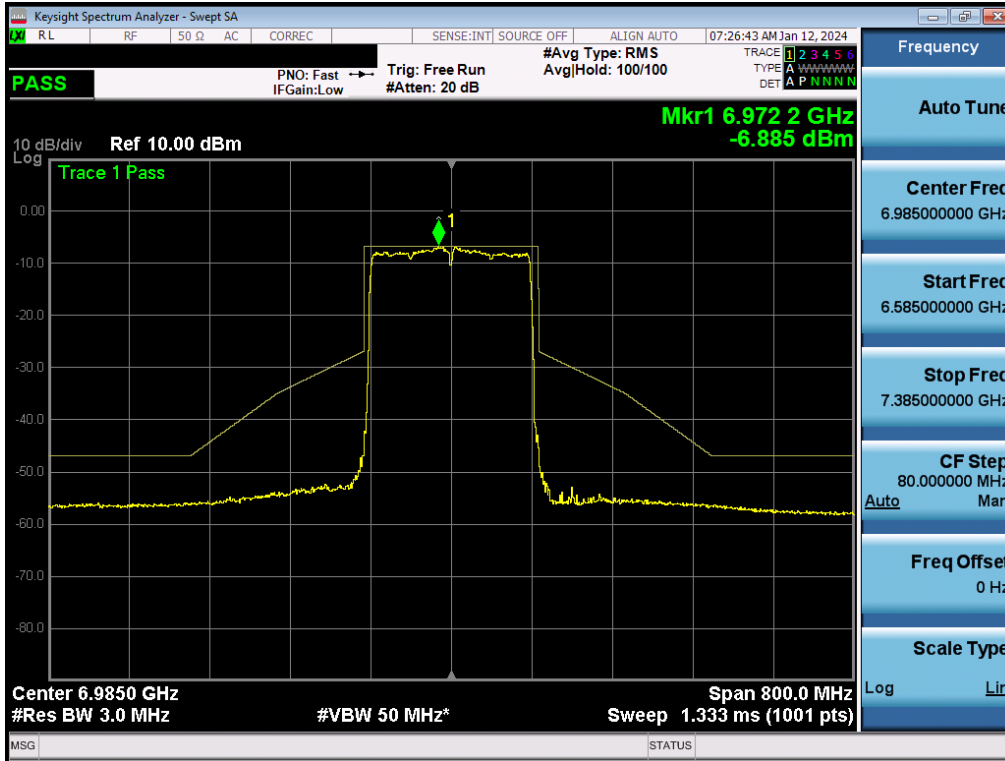


Plot 7-342. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11be (Full Tone) (UNII Band 8) – Ch. 211) - LPI

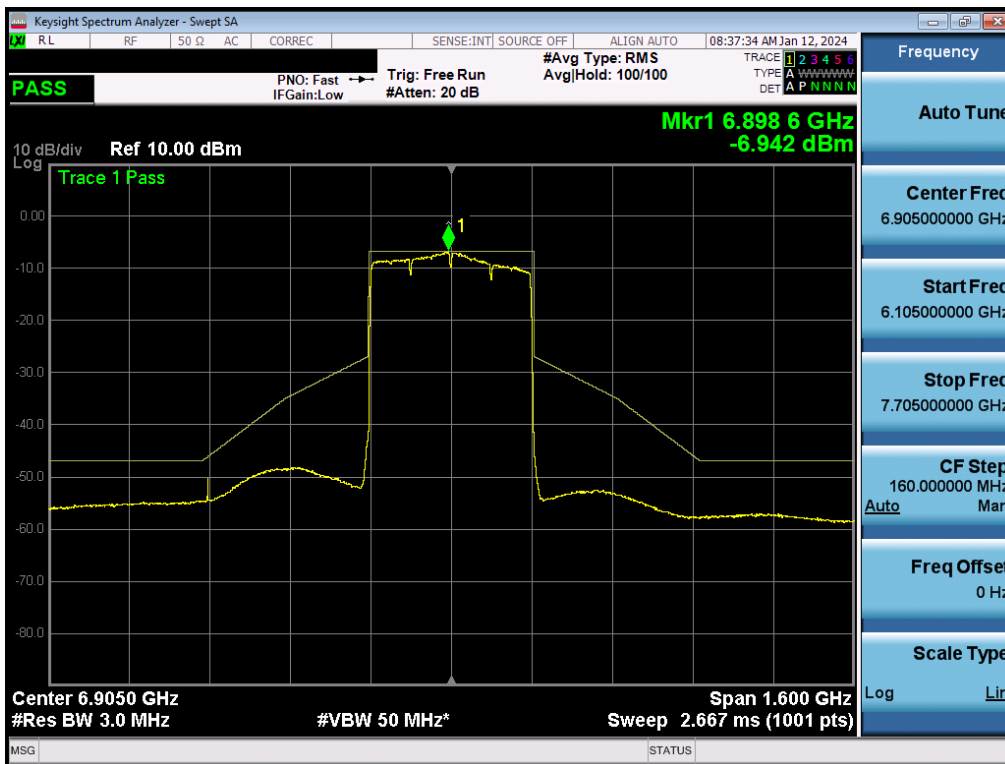


Plot 7-343. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11be (Full Tone) (UNII Band 8) – Ch. 199) - LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 220 of 277

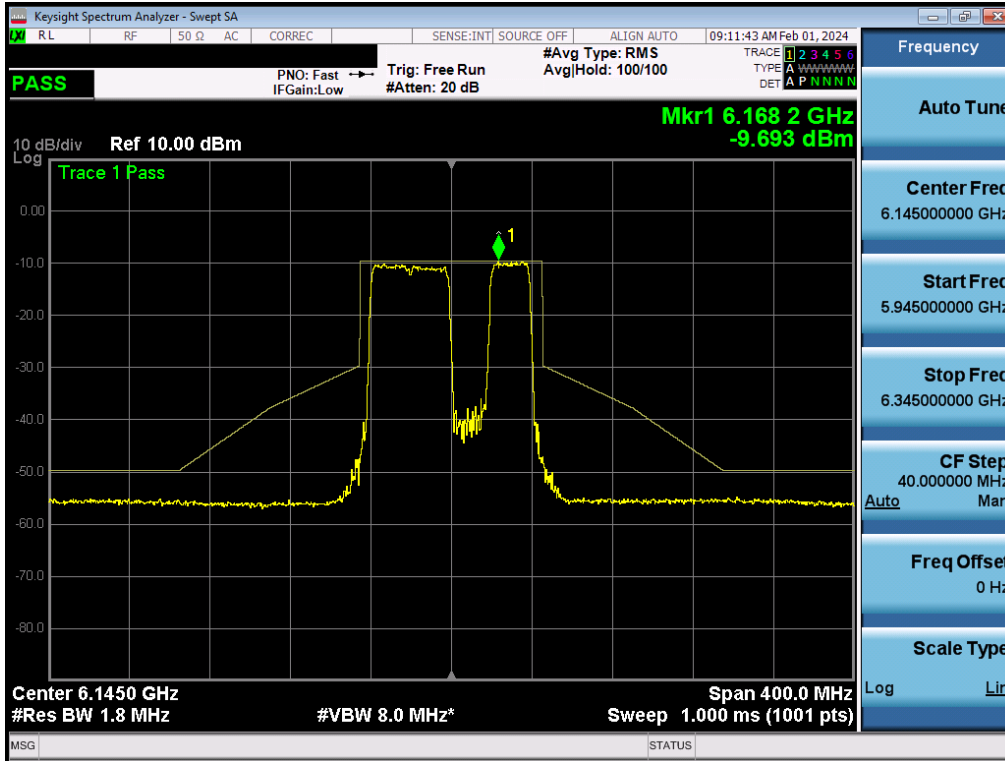


Plot 7-344. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11be (Full Tone) (UNII Band 8) – Ch. 207) - LPI

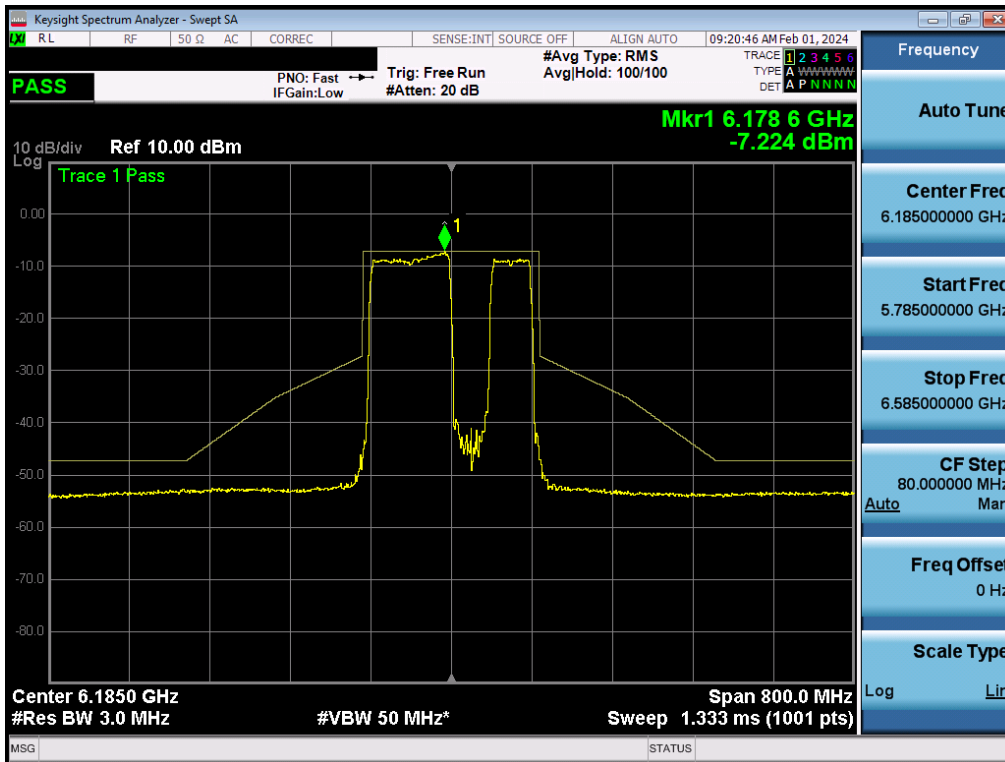


Plot 7-345. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11be (Full Tone) (UNII Band 8) – Ch. 191) - LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 221 of 277

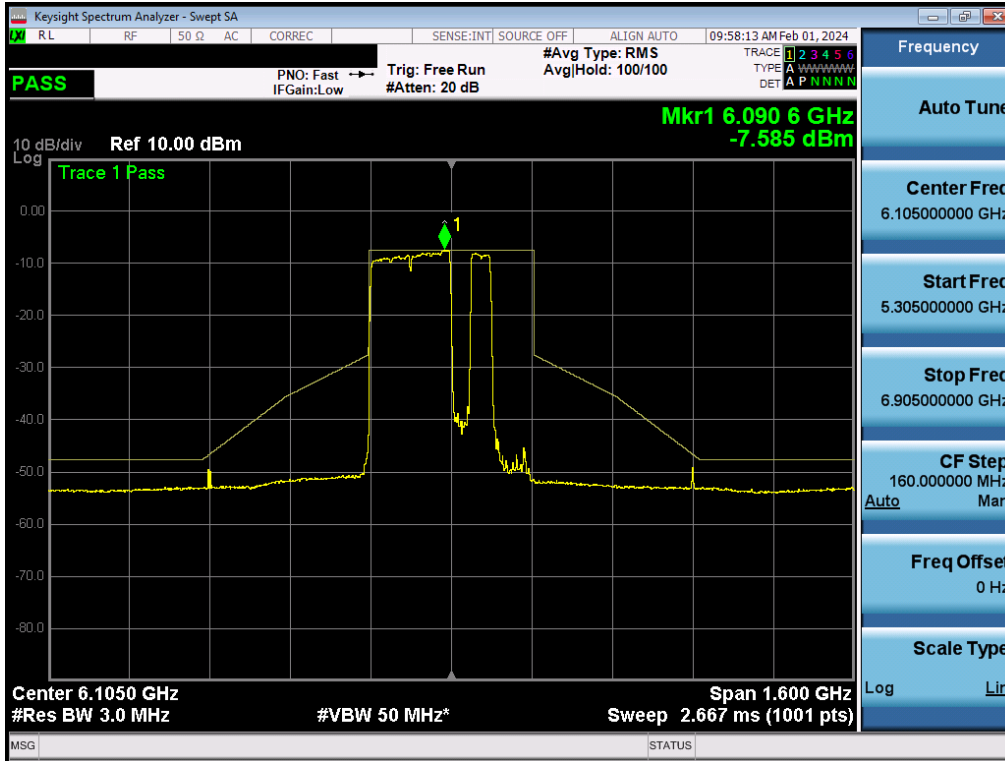


Plot 7-346. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11be (484+242 Tone) (UNII Band 5) – Ch. 39) - LPI

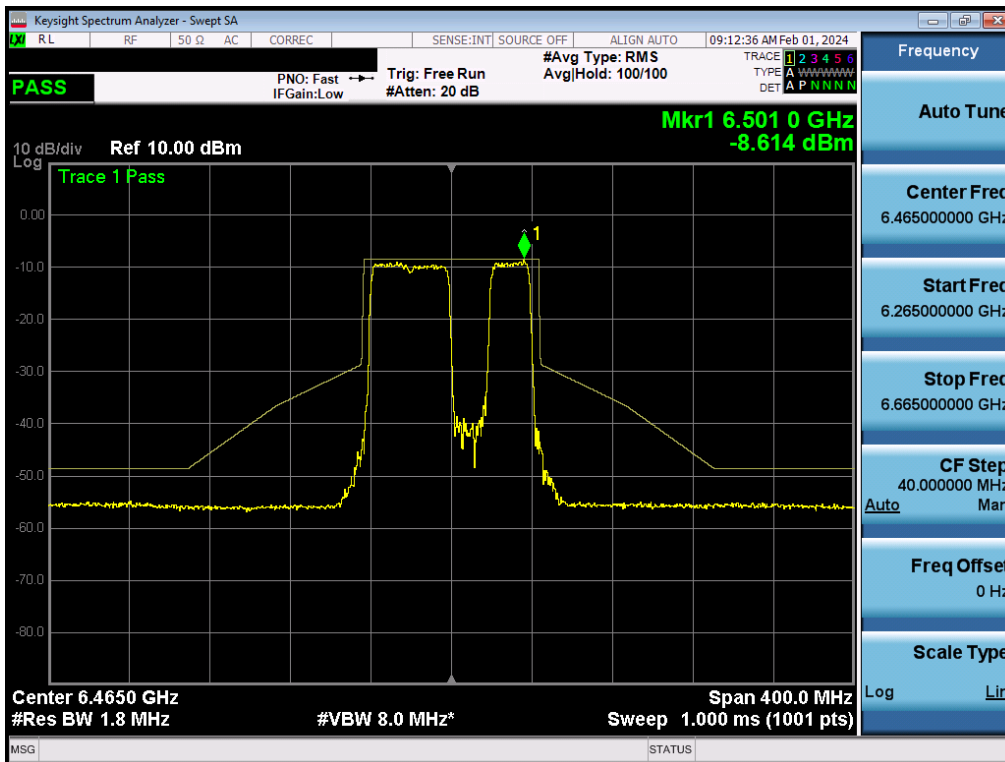


Plot 7-347. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11be (996+484 Tone) (UNII Band 5) – Ch. 47) - LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 222 of 277

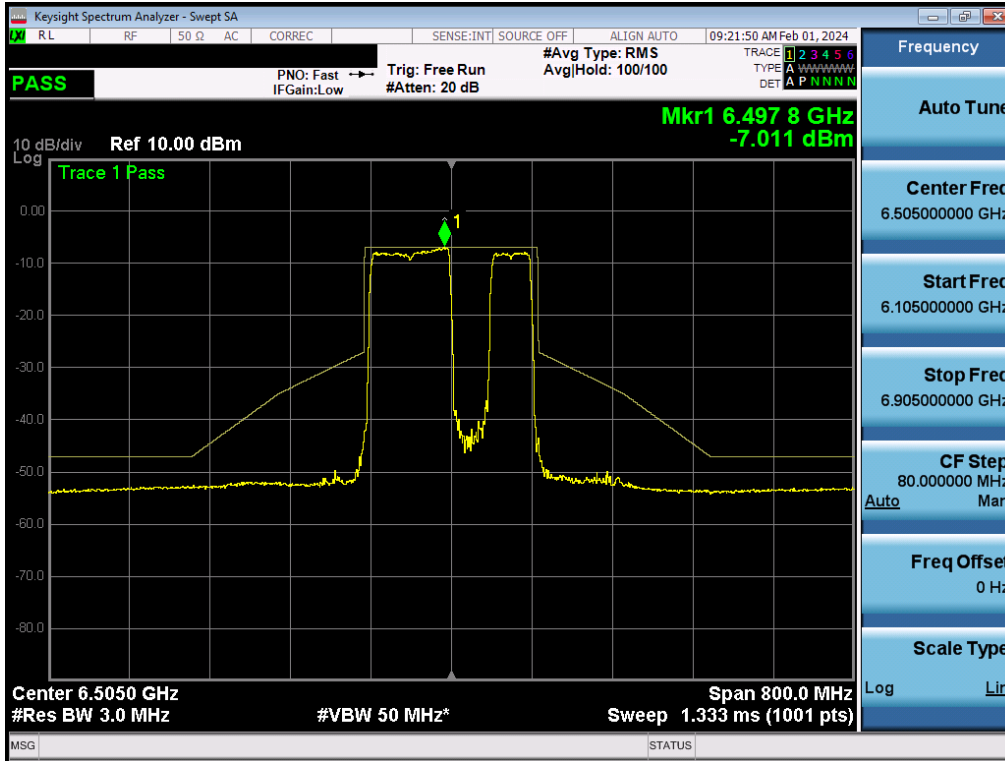


Plot 7-348. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11be (2*996+484 Tone) (UNII Band 5) – Ch. 31) - LPI

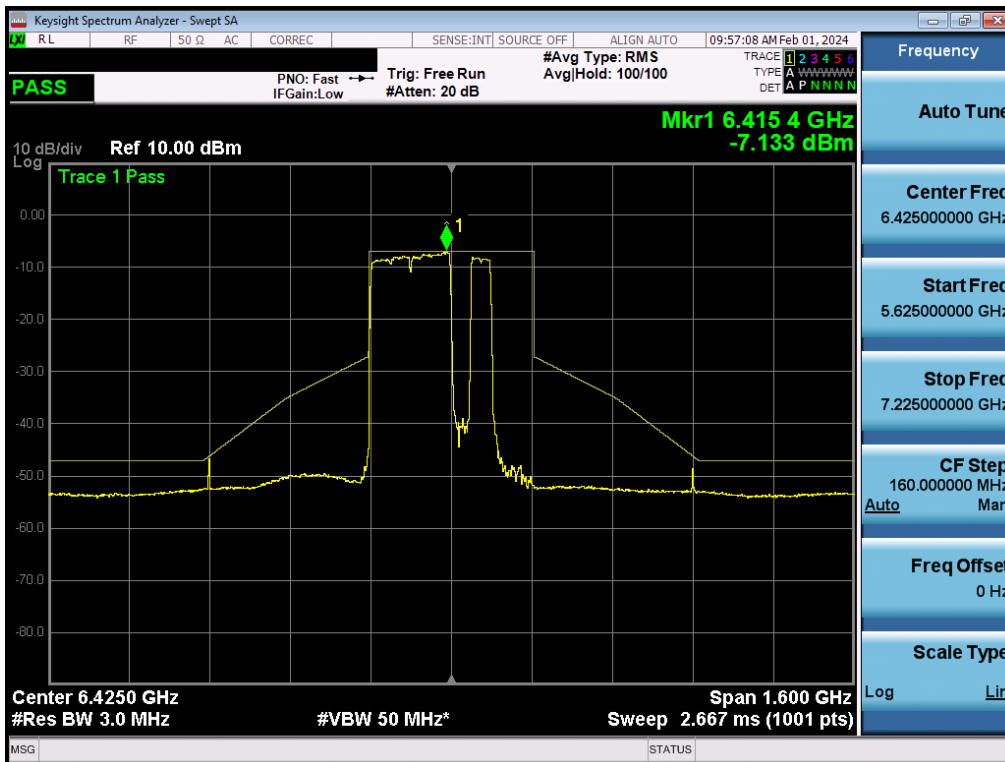


Plot 7-349. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11be (484+242 Tone) (UNII Band 6) – Ch. 103) - LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 223 of 277

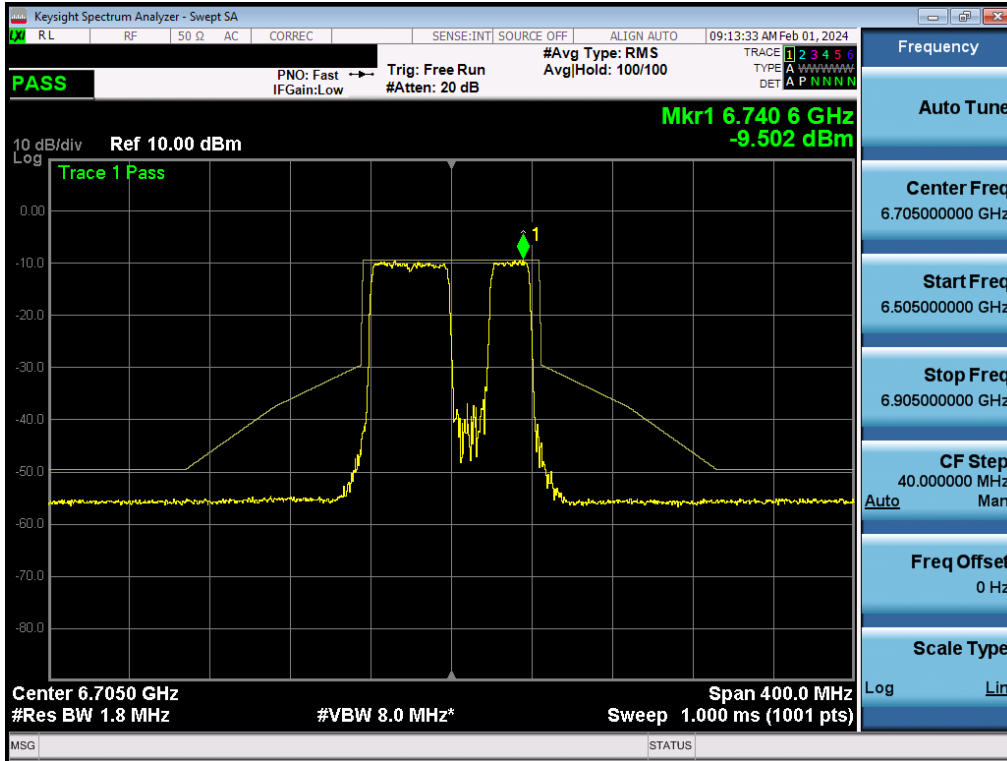


Plot 7-350. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11be (996+484 Tone) (UNII Band 6) – Ch. 111) - LPI

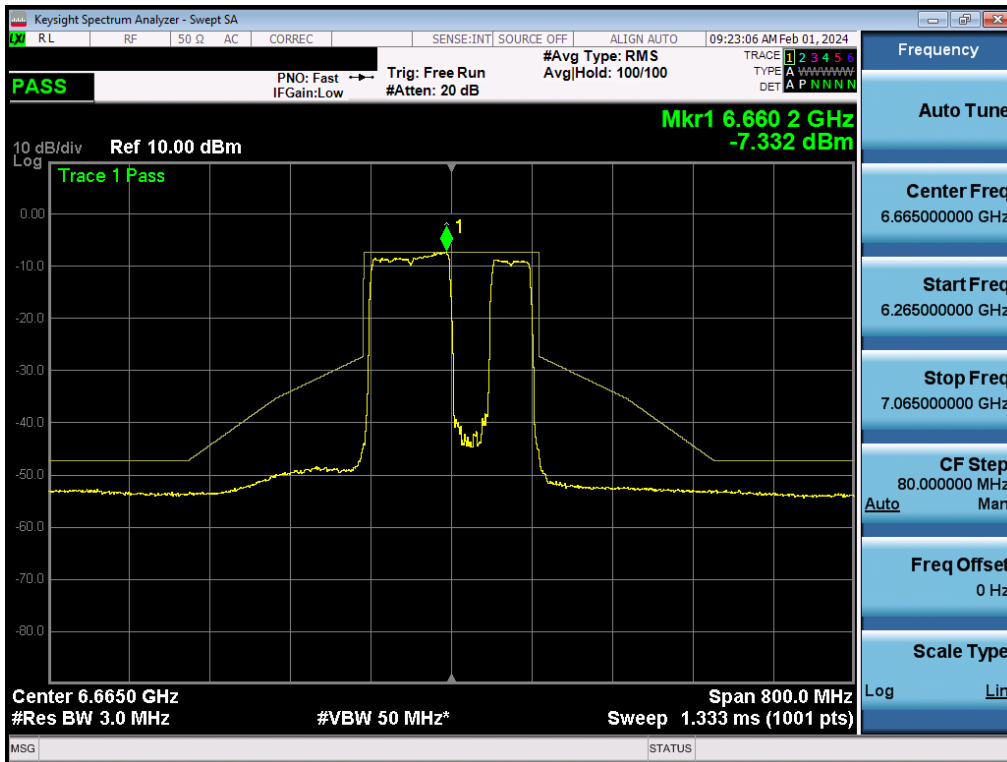


Plot 7-351. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11be (2*996+484 Tone) (UNII Band 6) – Ch. 95) - LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 224 of 277

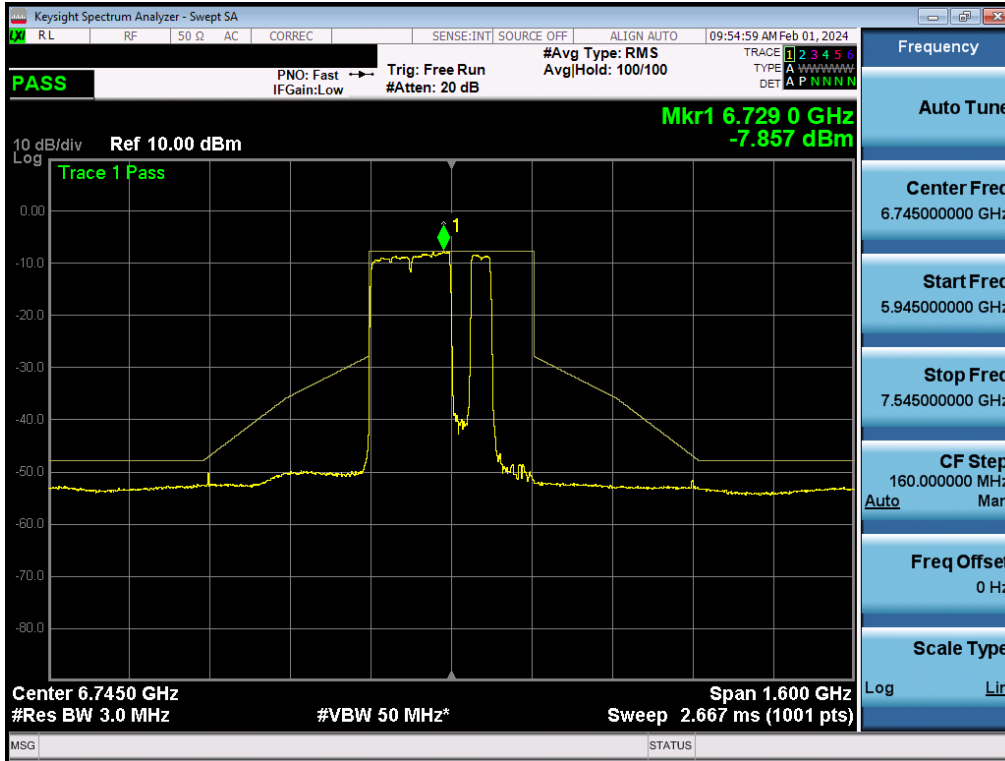


Plot 7-352. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11be (484+242 Tone) (UNII Band 7) – Ch. 151) - LPI

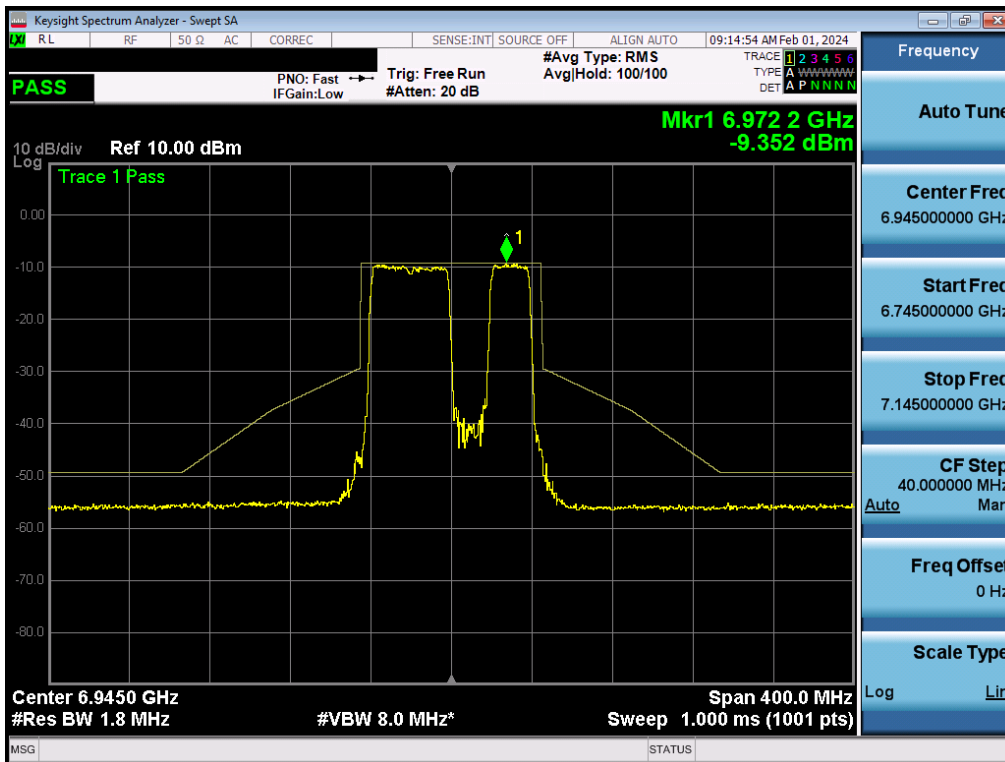


Plot 7-353. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11be (996+484 Tone) (UNII Band 7) – Ch. 143) - LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 225 of 277

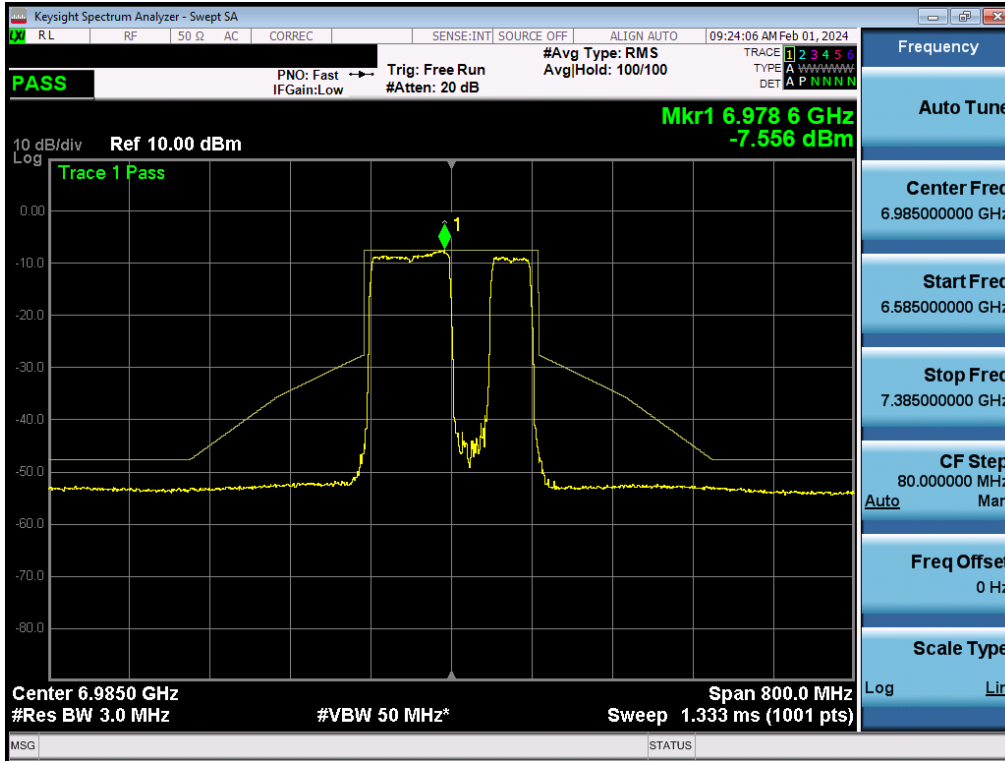


Plot 7-354. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11be (2*996+484 Tone) (UNII Band 7) – Ch. 159) - LPI

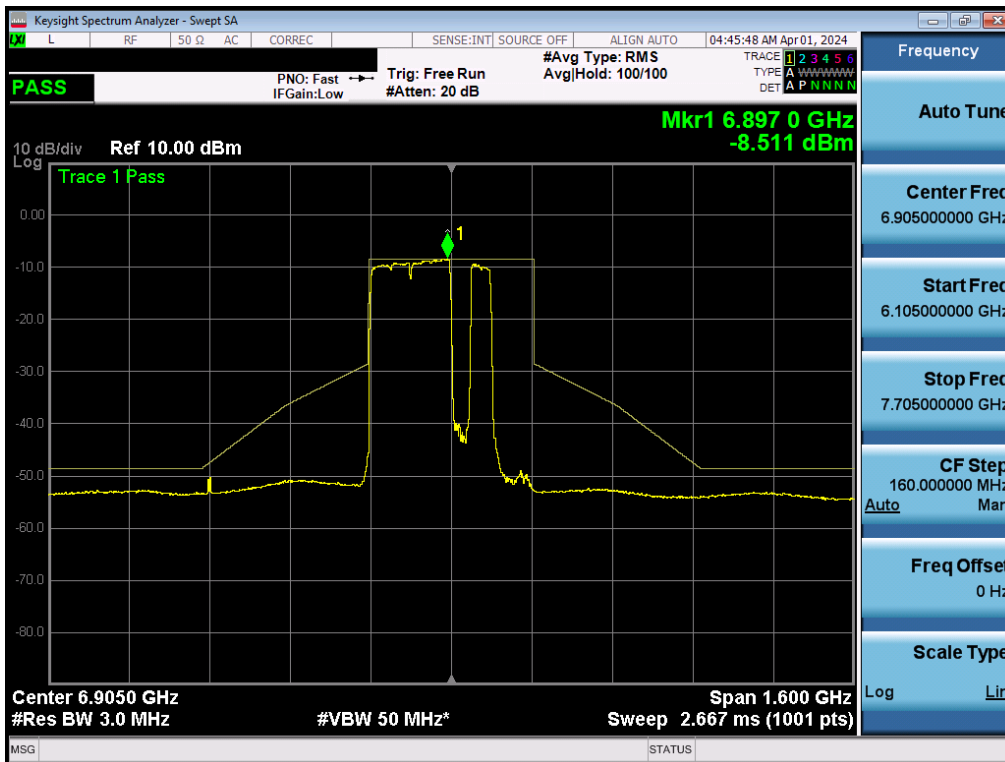


Plot 7-355. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11be (484+242 Tone) (UNII Band 8) – Ch. 199) - LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 226 of 277

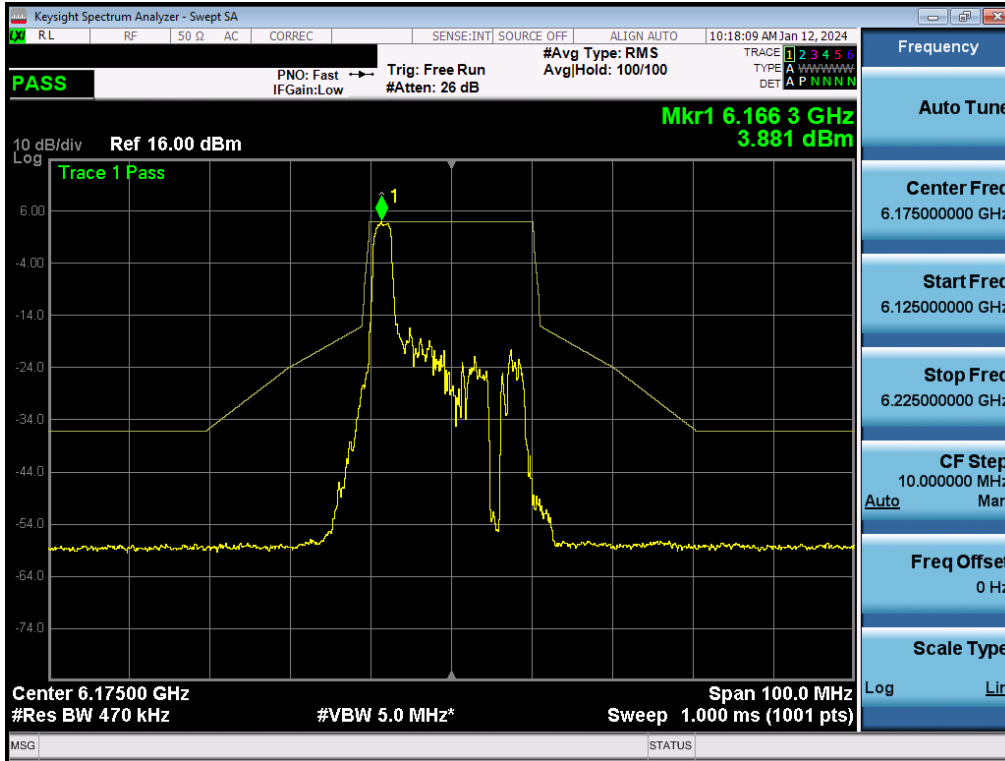


Plot 7-356. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11be (996+484 Tone) (UNII Band 8) – Ch. 207) - LPI

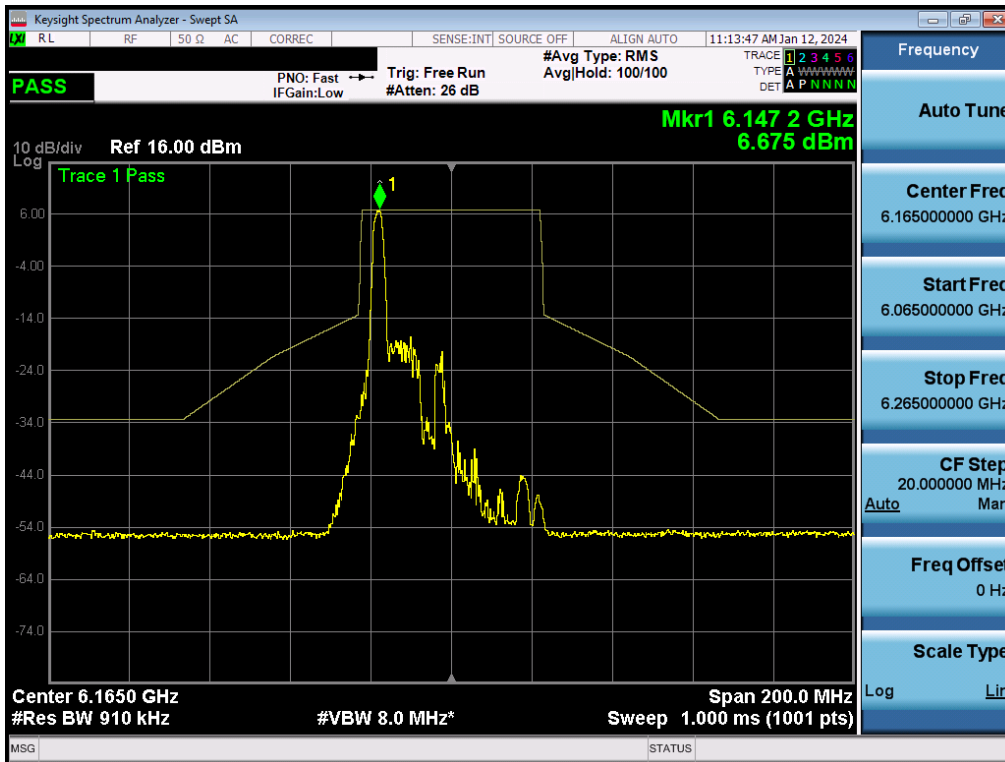


Plot 7-357. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11be (2*996+484 Tone) (UNII Band 8) – Ch. 191) - LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 227 of 277

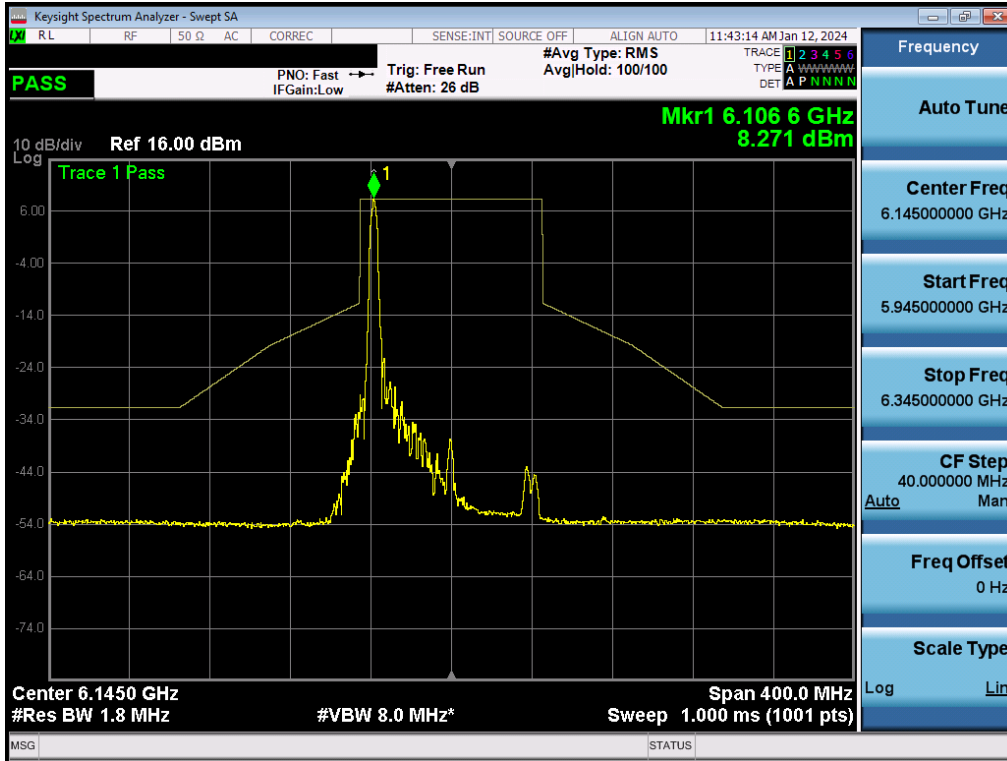


Plot 7-358. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11be (26 Tones) (UNII Band 5) – Ch. 45) - SP

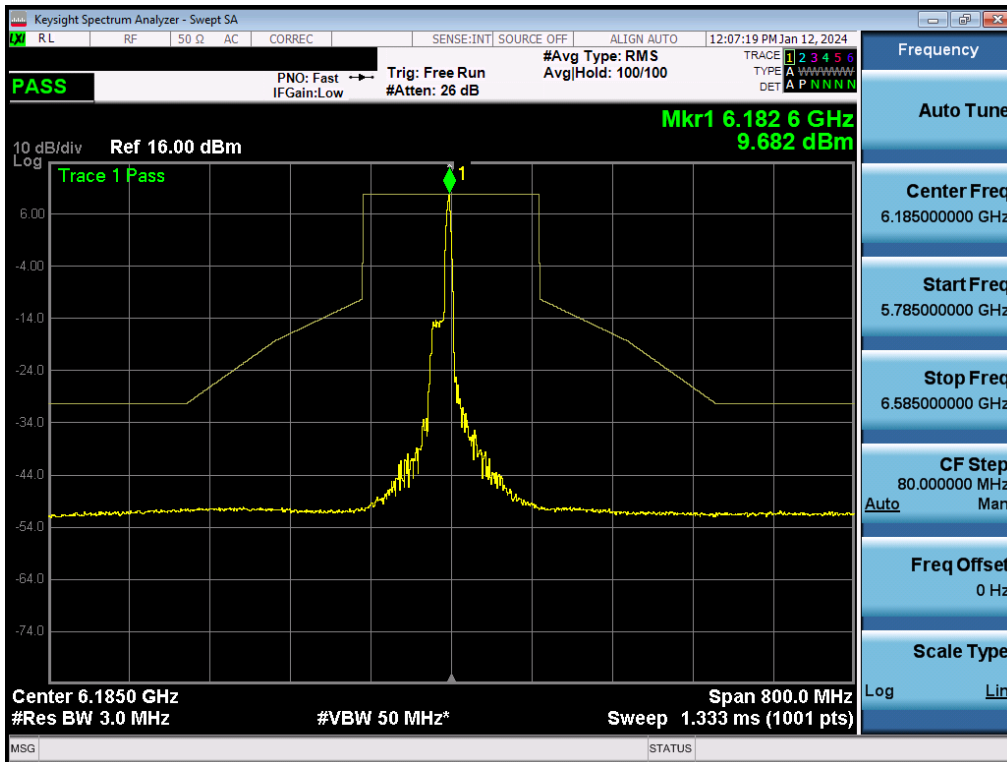


Plot 7-359. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11be (26 Tones) (UNII Band 5) – Ch. 43) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 228 of 277

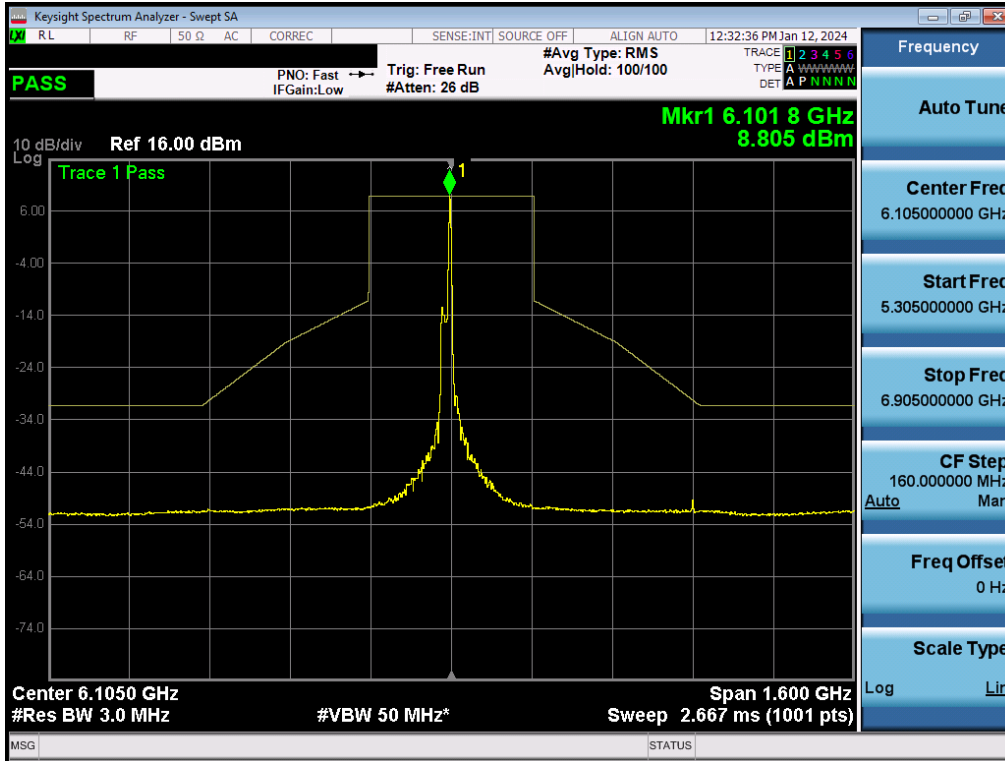


Plot 7-360. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11be (26 Tones) (UNII Band 5) – Ch. 39) - SP

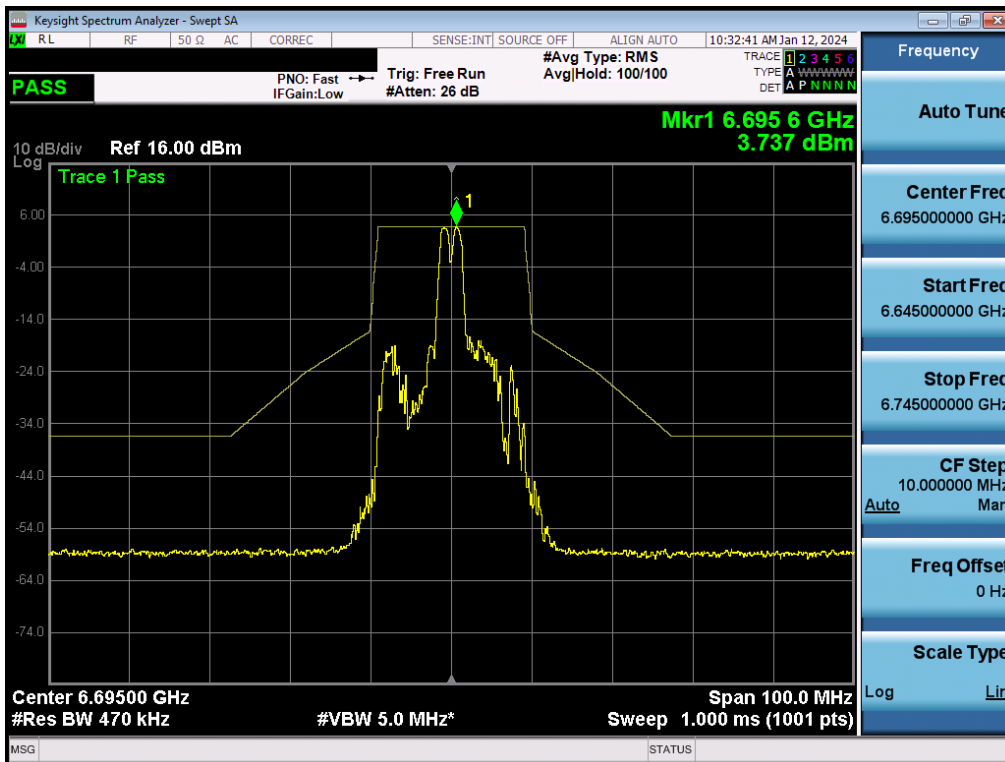


Plot 7-361. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11be (26 Tones) (UNII Band 5) – Ch. 47) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 229 of 277

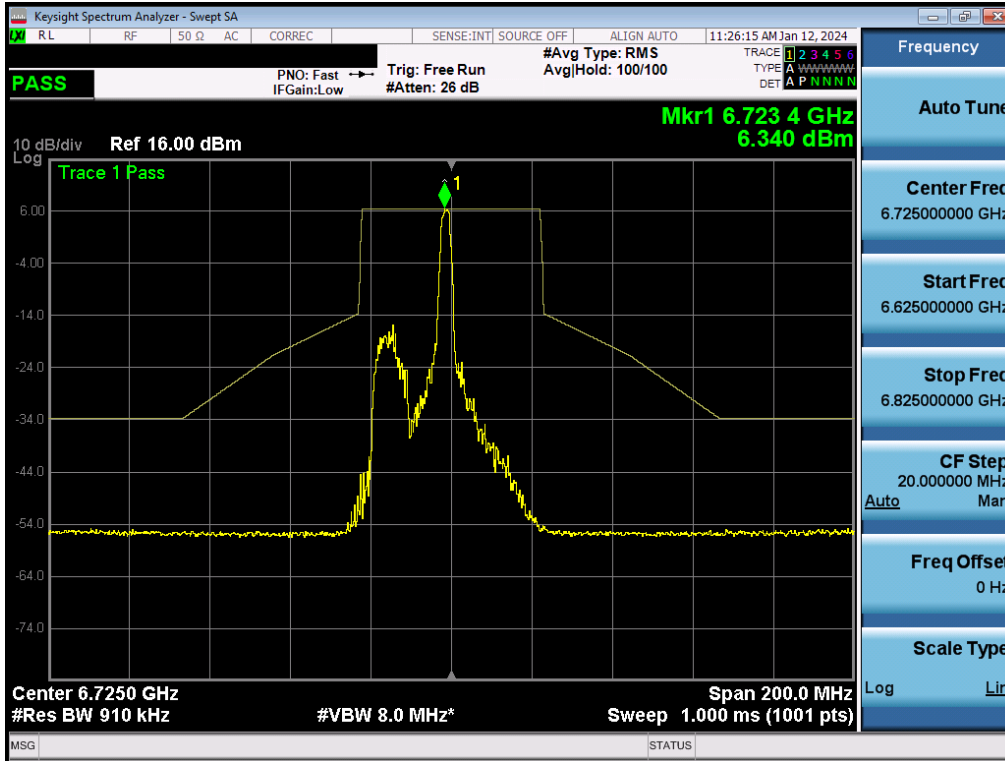


Plot 7-362. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11be (26 Tones) (UNII Band 5) – Ch. 31) – SP

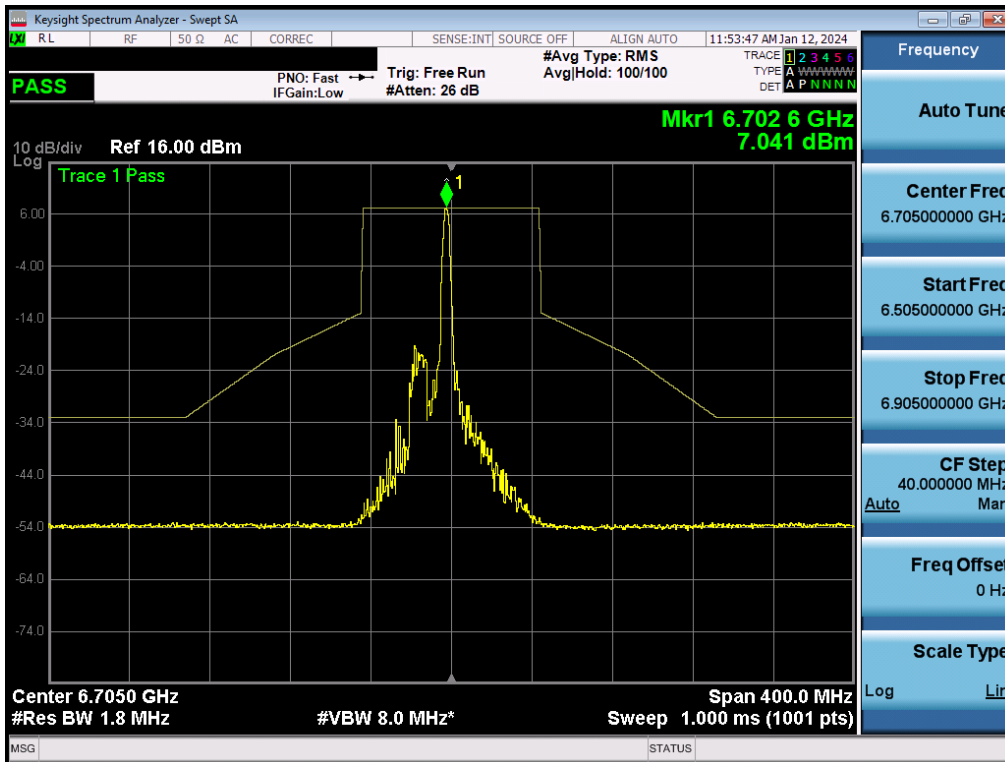


Plot 7-363. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11be (26 Tone) (UNII Band 7) – Ch. 149) – SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 230 of 277

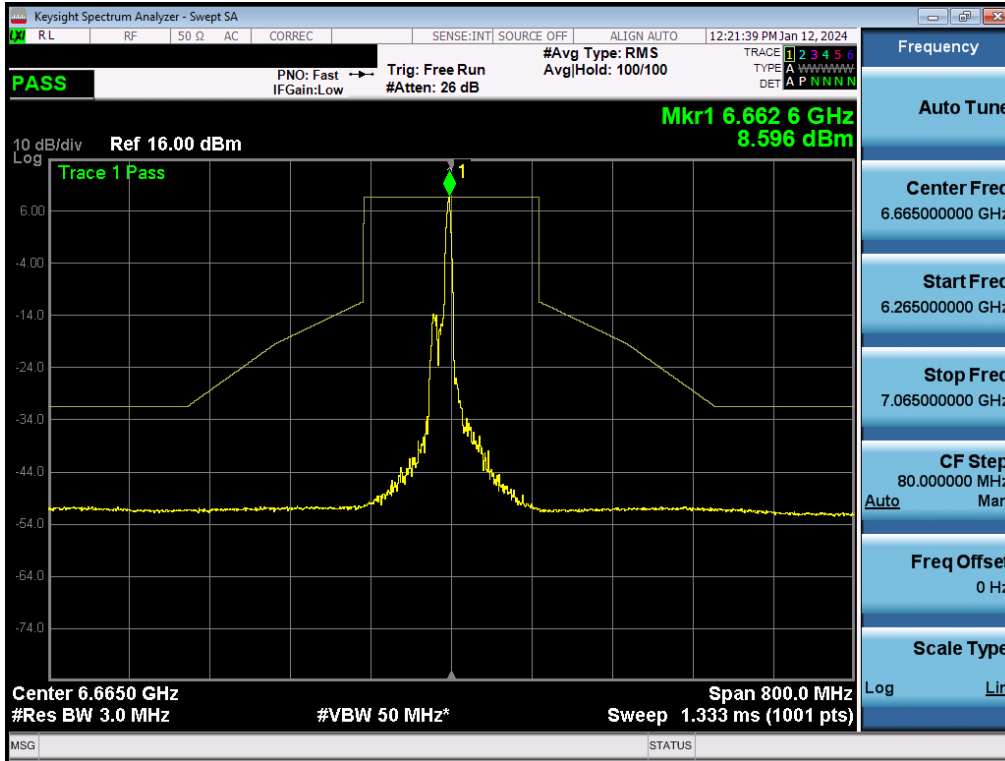


Plot 7-364. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11be (26 Tone) (UNII Band 7) – Ch. 155) – SP

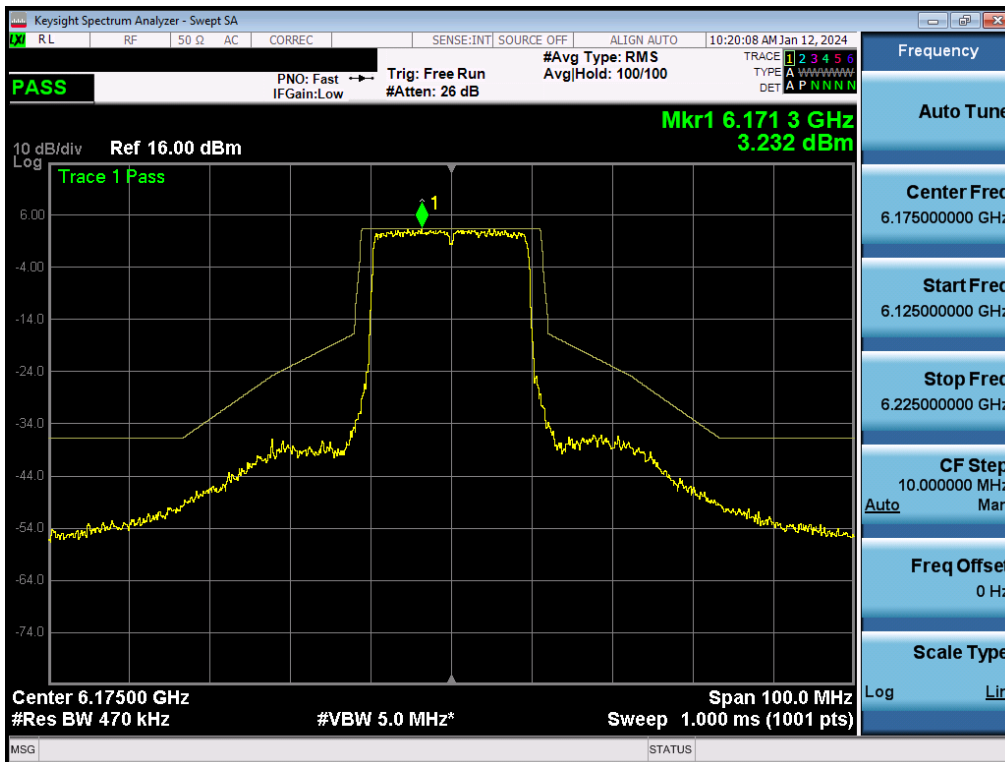


Plot 7-365. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11be (26 Tone) (UNII Band 7) – Ch. 151) – SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 231 of 277

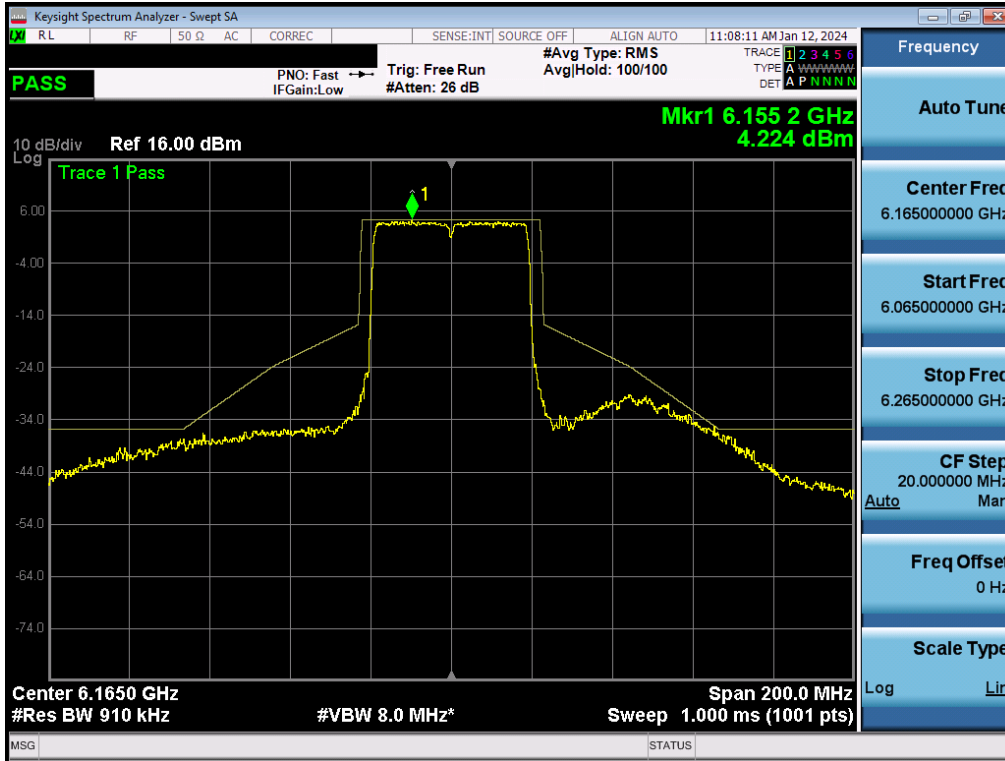


Plot 7-366. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11be (26 Tone) (UNII Band 7) – Ch. 143) – SP

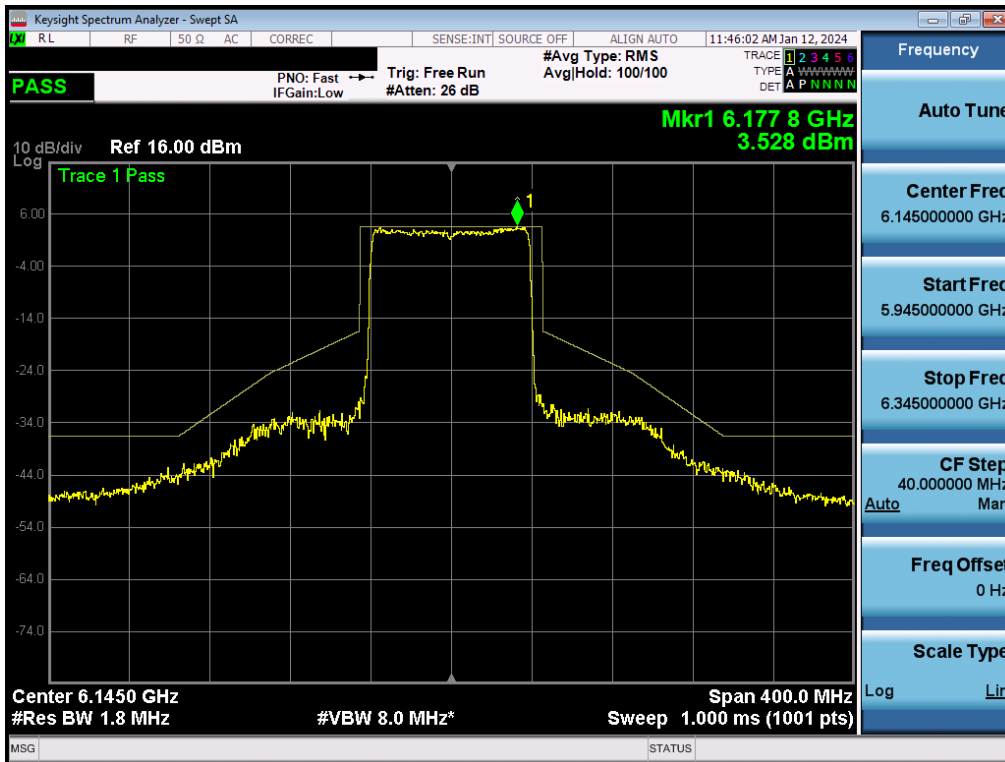


Plot 7-367. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11be (Full Tones) (UNII Band 5) – Ch. 45) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 232 of 277

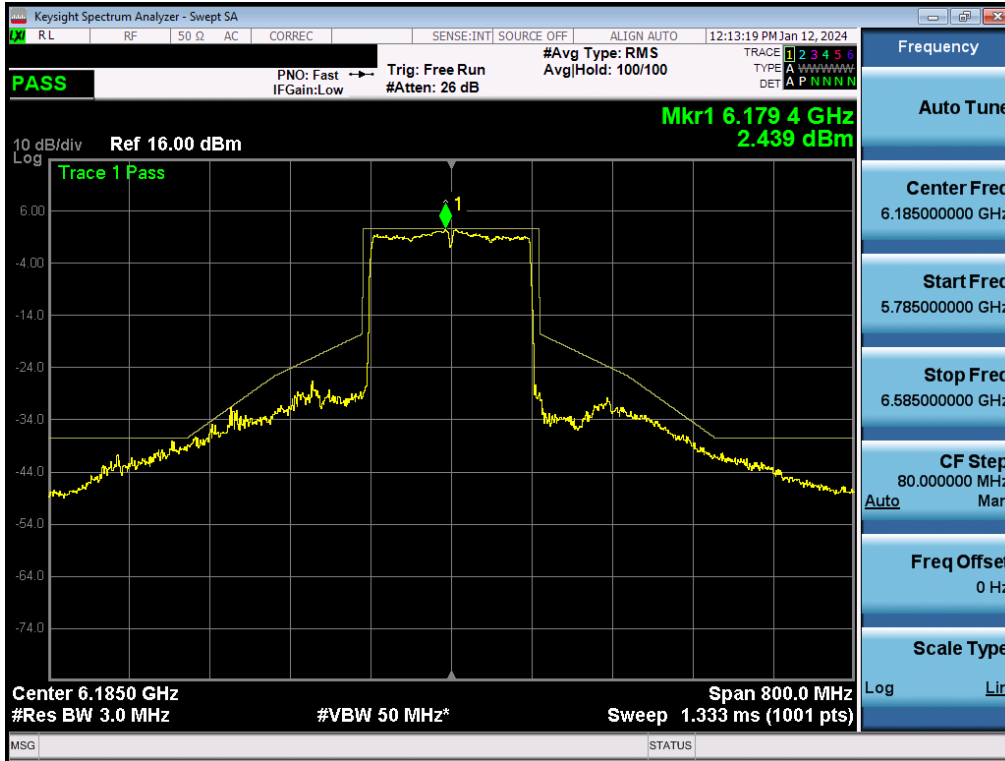


Plot 7-368. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11be (Full Tones) (UNII Band 5) – Ch. 43) - SP

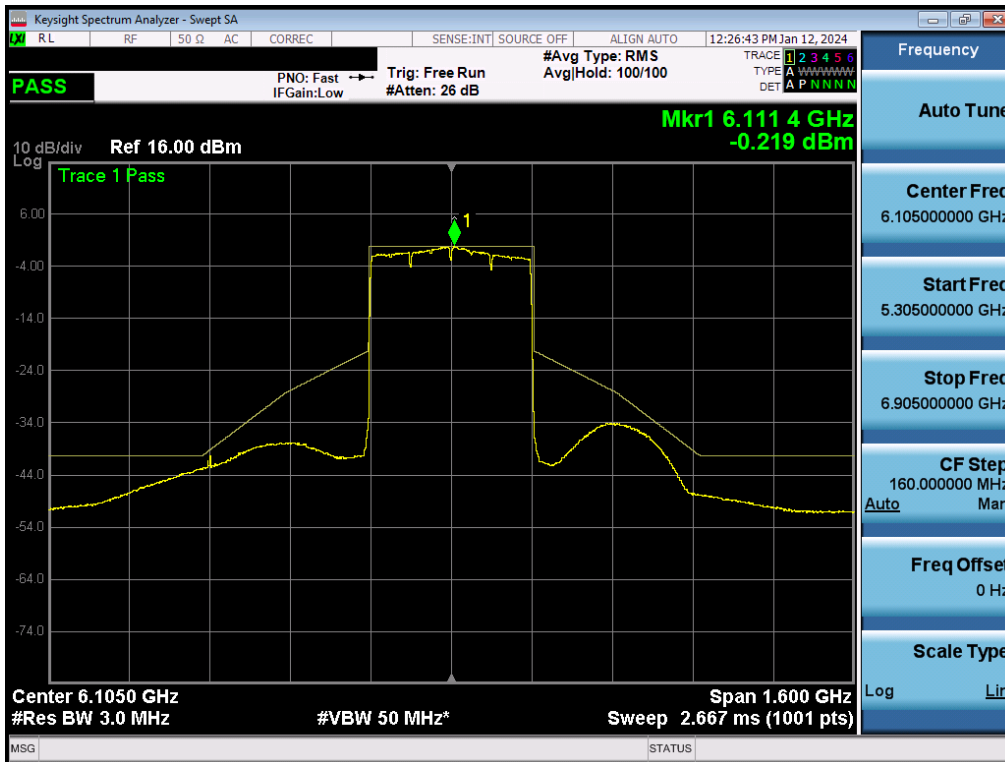


Plot 7-369. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11be (Full Tones) (UNII Band 5) – Ch. 39) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 233 of 277

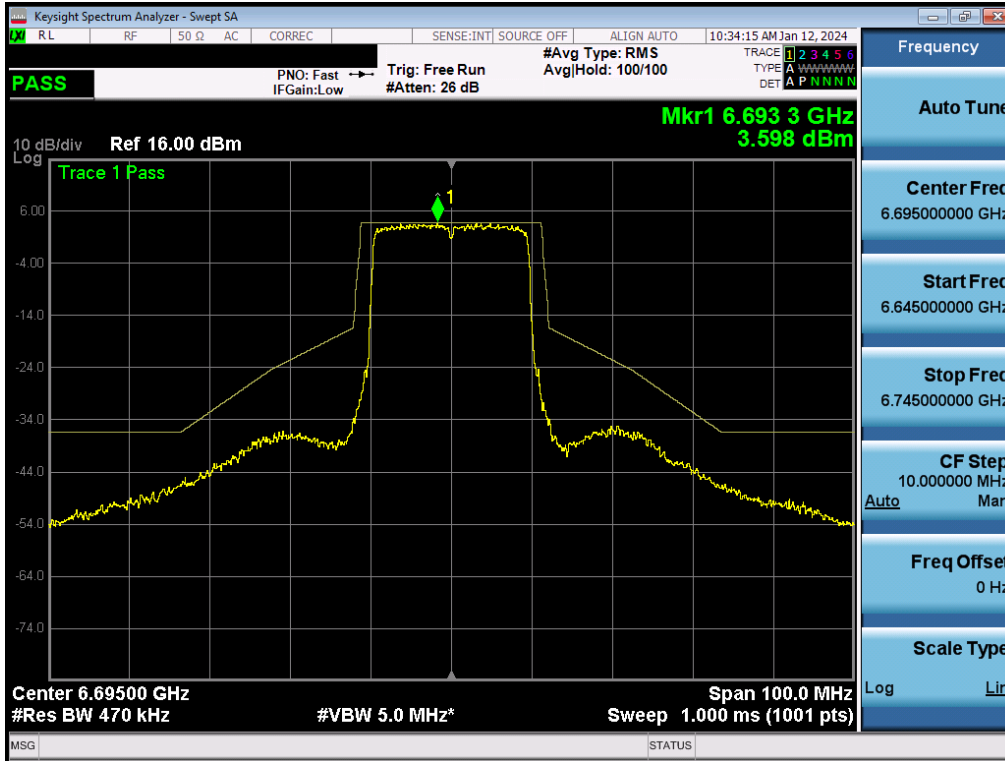


Plot 7-370. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11be (Full Tones) (UNII Band 5) – Ch. 47) - SP

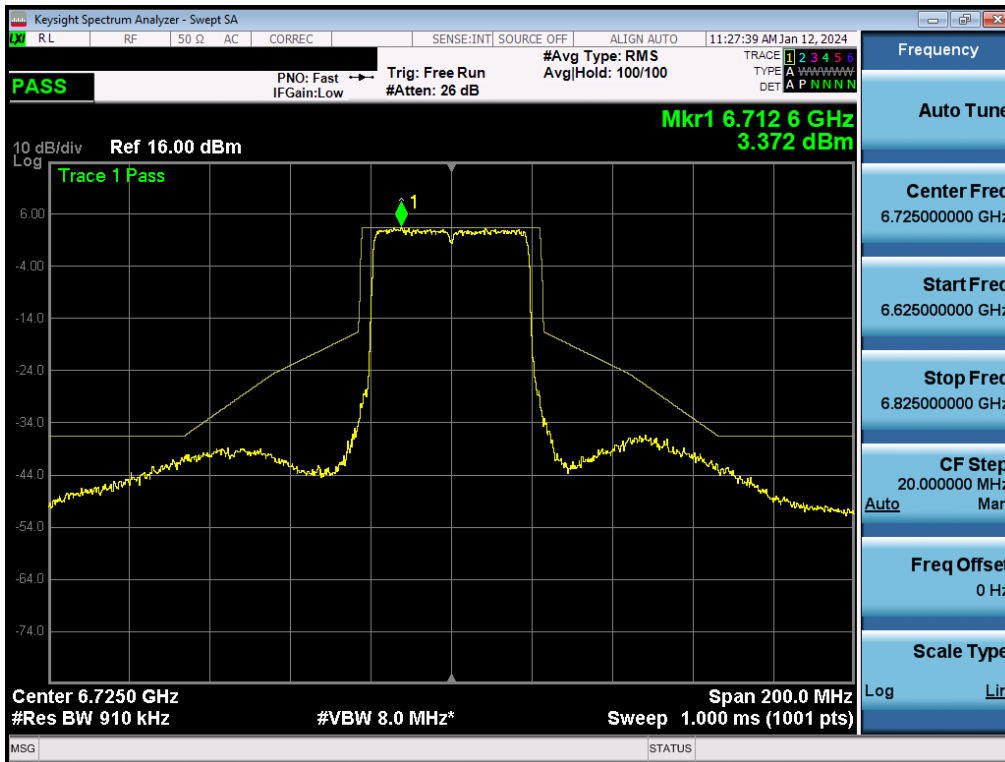


Plot 7-371. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11be (Full Tones) (UNII Band 5) – Ch. 31) – SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 234 of 277

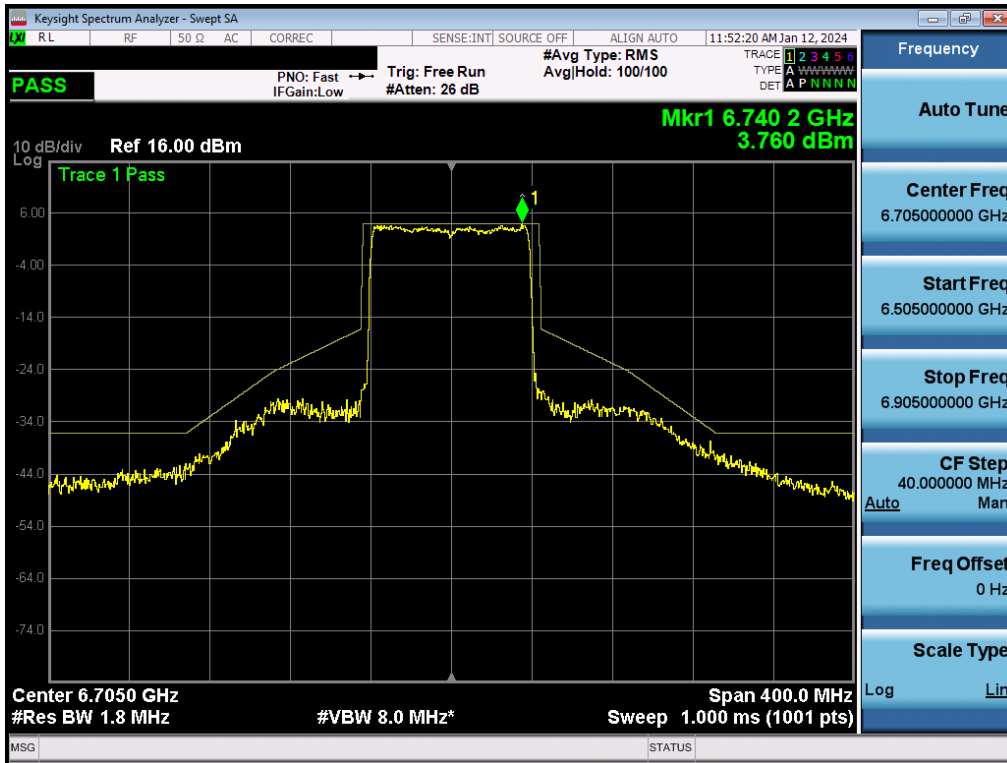


Plot 7-372. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11be (Full Tone) (UNII Band 7) – Ch. 149) – SP

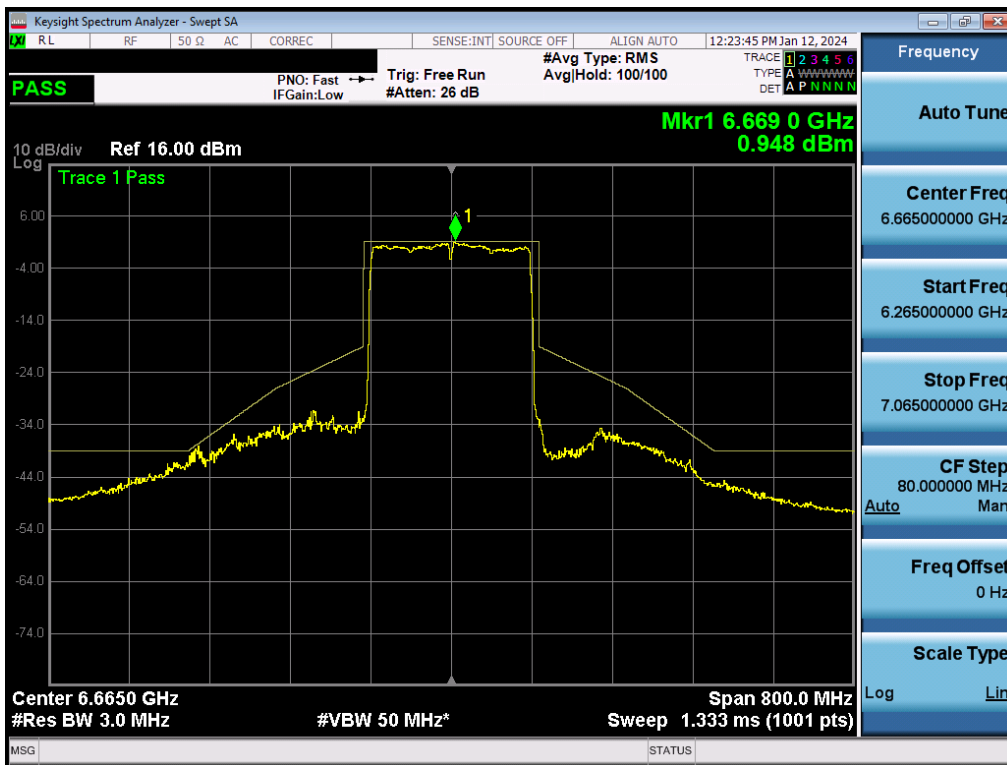


Plot 7-373. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11be (Full Tone) (UNII Band 7) – Ch. 155) – SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 235 of 277

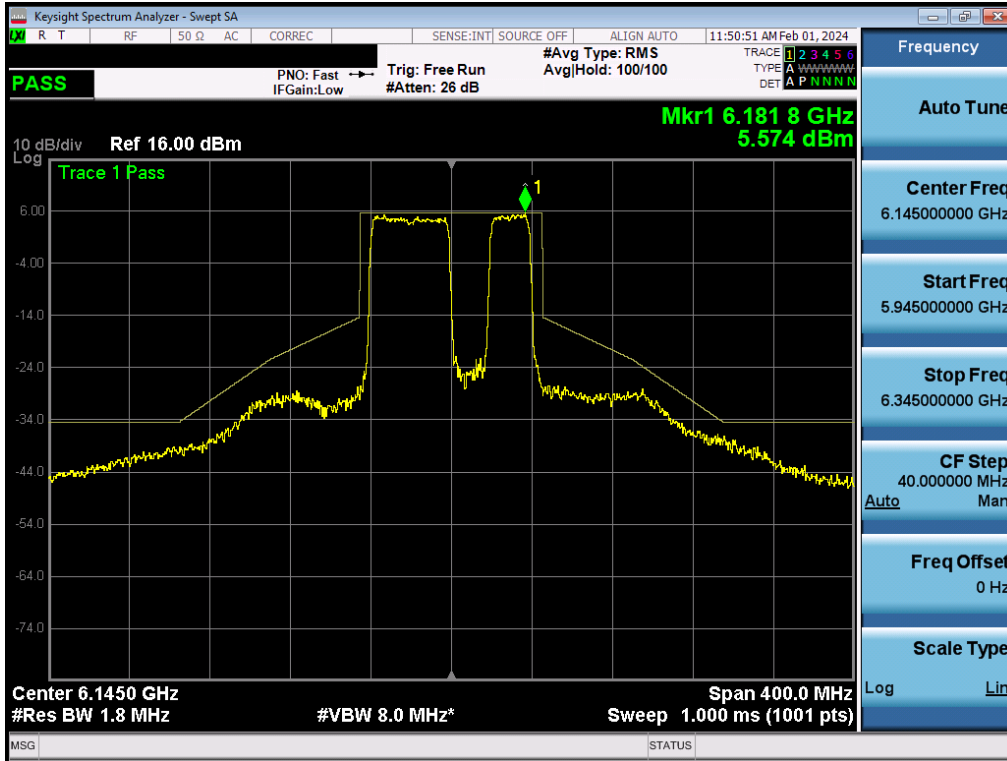


Plot 7-374. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11be (Full Tone) (UNII Band 7) – Ch. 151) – SP

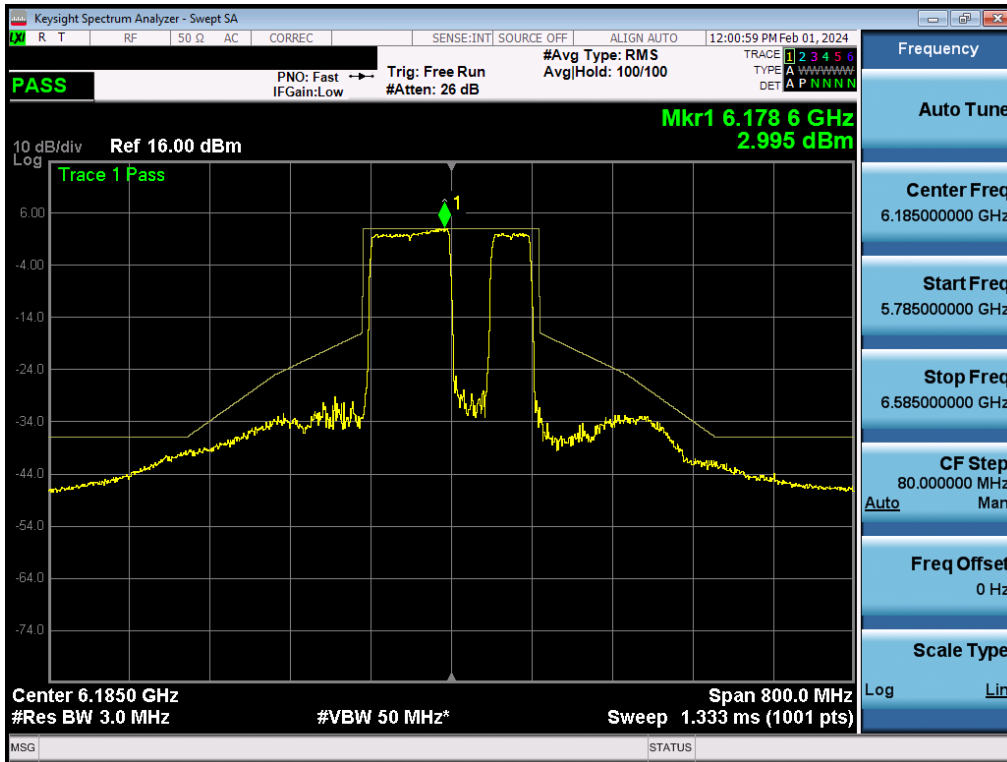


Plot 7-375. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11be (Full Tone) (UNII Band 7) – Ch. 143) – SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 236 of 277

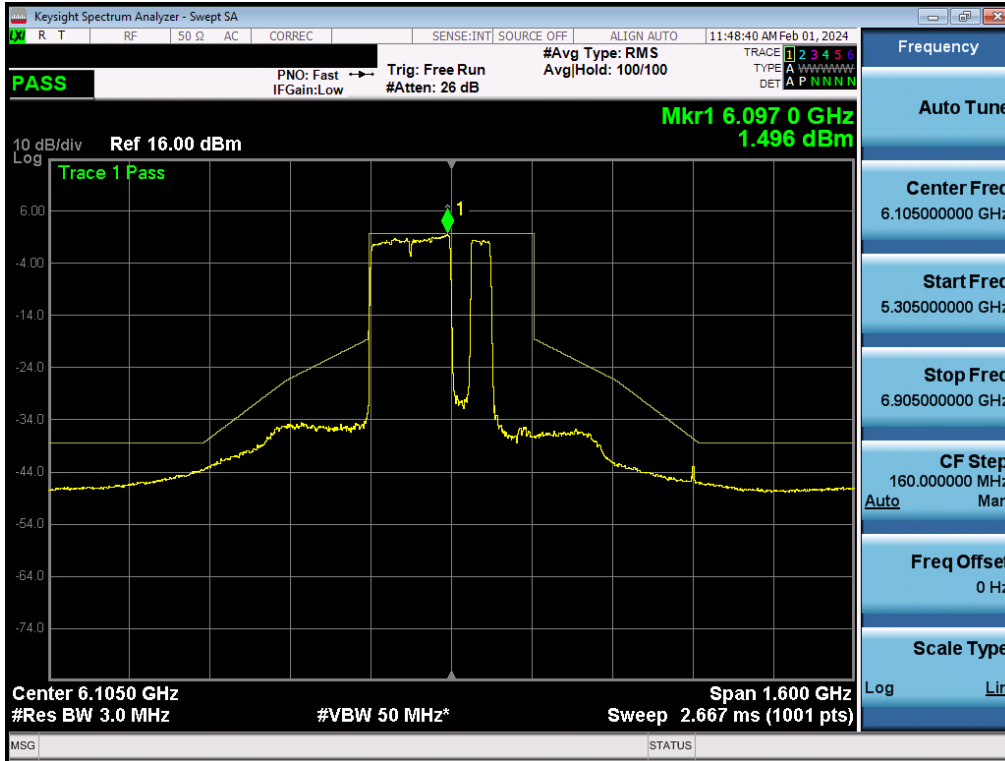


Plot 7-376. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11be (484+242 Tone) (UNII Band 5) – Ch. 39) - SP

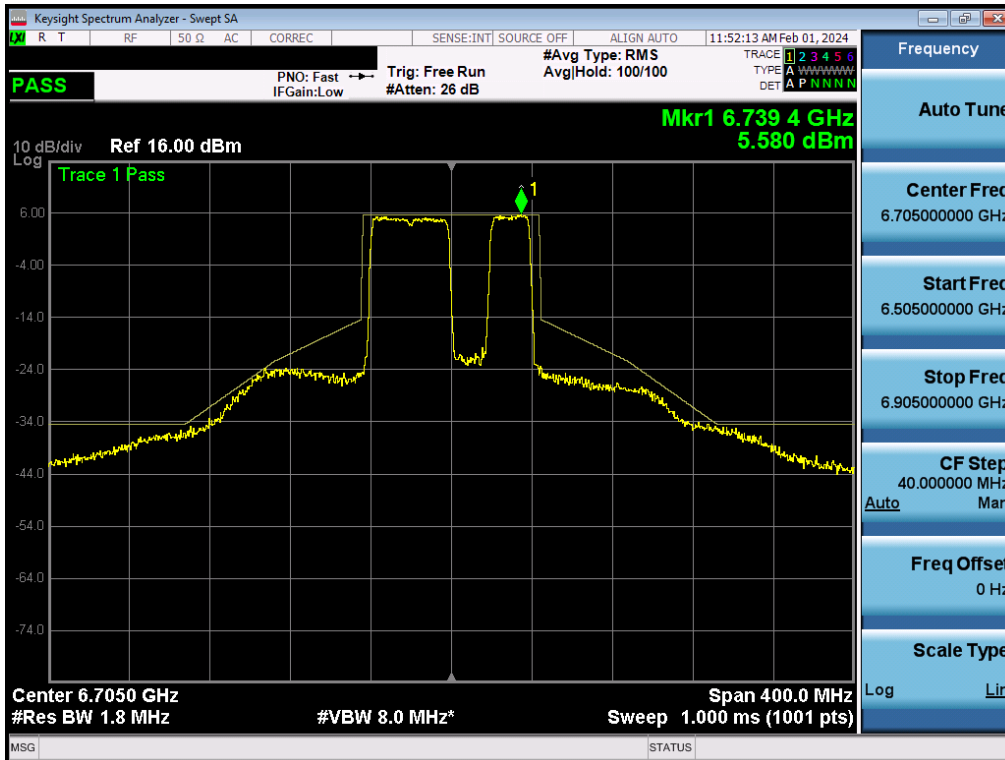


Plot 7-377. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11be (996+484 Tone) (UNII Band 5) – Ch. 47) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 237 of 277

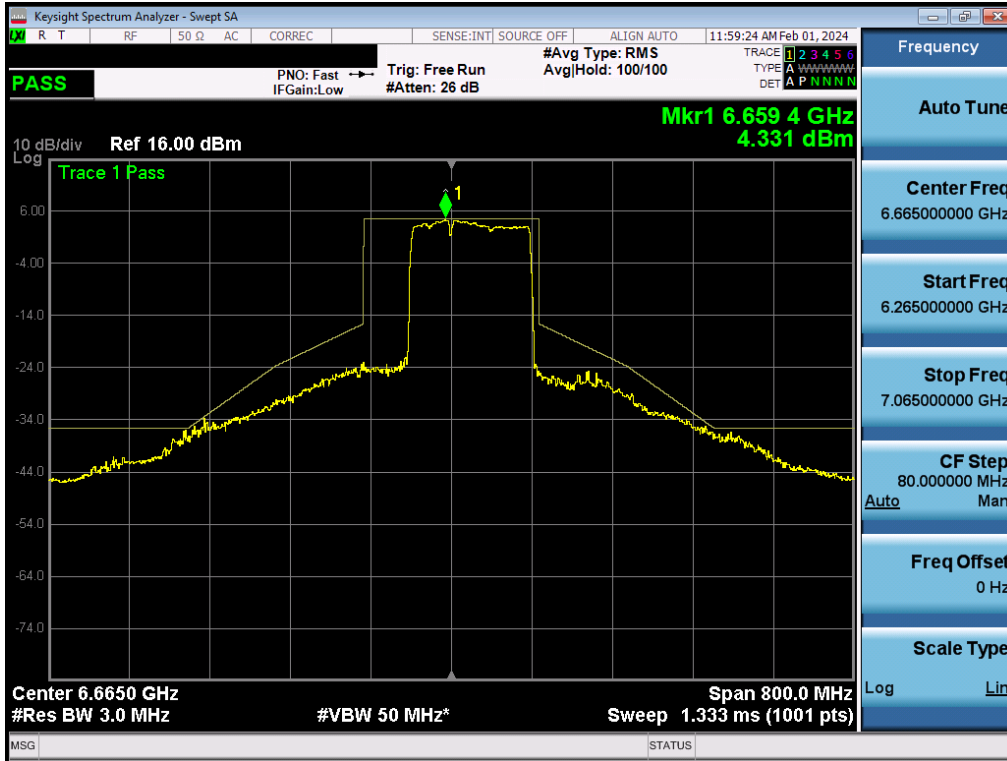


Plot 7-378. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11be (2*996+484 Tone) (UNII Band 5) – Ch. 31) – SP



Plot 7-379. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11be (484+242 Tone) (UNII Band 7) – Ch. 151) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-380. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11be (996+484 Tone) (UNII Band 7) – Ch. 143) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 239 of 277

7.6 Contention Based Protocol

Test Overview and Limit

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel if detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel.

Test Procedure Used

KDB 987594 D02 v01r01

Test Settings

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation, and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 of KDB 987594 D02 v01r01 to determine the number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal, and repeat the process.

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Test Setup

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

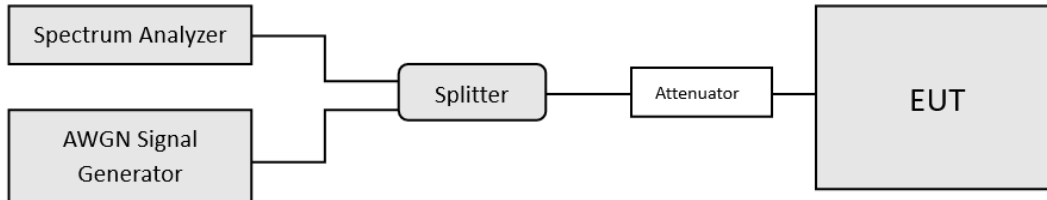


Figure 7-5. Contention-based protocol test setup, conducted method

Test Notes

1. Per guidance from KDB 987594 D02 v01r01, contention based protocol was tested using an AWGN signal with a bandwidth of 10MHz (see Plot 7-631). The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission (see Plot 7-647), M1 indicates the point at which the AWGN signal is introduced. D1 indicates where the AWGN signal is terminated, at least 10 seconds following M1.
2. 15 trials were run in order to ensure certainty of 90%
3. Per Guidance from KDB 987594 D04 v01, contention based protocol was tested with receiver with the lowest antenna gain.
4. All CBP Timing Plots shown are for the ceased condition. Some spikes that may be shown are from adjacent portions of the spectrum that are still transmitting.
5. In the presence of an AWGN signal, the EUT was shown to either completely move out of the channel or to reduce its bandwidth for the purpose of incumbent avoidance. Representative channel move plots are included for one sub-band to show how the channel reduces when the AWGN is injected at the lower edge, the center, and the upper edge of a channel.
6. This device only punctures to optimize network performance and never to avoid licensed incumbents.
7. For the channel move demonstration in Section 7.6.3, only plots from UNII-5 band are included. Additionally, the AWGN signal is not visible because the AWGN level is well below the noise floor.

$$\text{Detection Level} = \text{Injected AWGN Power (dBm)} - \text{Antenna Gain (dBi)} + \text{Path Loss (dB)}$$

Equation 7-1. Detection Level Calculation

Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Path Loss (dB)	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
UNII Band 5	53	6215	20	6215	-65.65	2.30	1.50	-66.45	-62.0	-4.45
				6110	-62.17	2.30	1.50	-62.97	-62.0	-0.97
	31	6265	320	6265	-61.76	2.30	1.50	-62.56	-62.0	-0.56
				6420	-64.46	2.30	1.50	-63.26	-62.0	-1.26
UNII Band 6	101	6455	20	6455	-66.53	2.30	1.50	-67.33	-62.0	-5.33
				6270	-66.05	2.30	1.50	-66.85	-62.0	-4.85
	95	6425	320	6425	-63.36	2.30	1.50	-64.16	-62.0	-2.16
				6580	-65.45	2.30	1.50	-66.25	-62.0	-4.25
UNII Band 7	149	6695	20	6695	-66.67	2.30	1.50	-67.47	-62.0	-5.47
				6590	-65.62	2.30	1.50	-66.42	-62.0	-4.42
	159	6745	320	6745	-64.55	2.30	1.50	-65.35	-62.0	-3.35
				6900	-64.32	2.30	1.50	-65.12	-62.0	-3.12
UNII Band 8	197	6935	20	6935	-67.67	2.30	1.50	-68.47	-62.0	-6.47
				6750	-64.57	2.30	1.50	-65.37	-62.0	-3.37
	191	6905	320	6905	-63.26	2.30	1.50	-64.06	-62.0	-2.06
				7060	-62.90	2.30	1.50	-63.70	-62.0	-1.70

Table 7-46. Contention Based Protocol – Incumbent Detection Results

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 241 of 277

Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Antenna Gain [dBi]	EUT Transmission Status			Detection Limit [dBm]	Margin [dB]
						Adjusted AWGN Power (dBm)				
						Normal	Minimal	Ceased		
UNII Band 5	53	6215	20	6215	2.30	-69.55	-67.75	-66.45	-62.0	-4.45
				6110	2.30	-66.37	-64.97	-62.97	-62.0	-0.97
	31	6265	320	6265	2.30	-65.96	-64.86	-62.56	-62.0	-0.56
				6420	2.30	-66.96	-65.76	-63.26	-62.0	-1.26
UNII Band 6	101	6455	20	6455	2.30	-71.53	-68.63	-67.33	-62.0	-5.33
				6350	2.30	-70.75	-69.05	-66.85	-62.0	-4.85
	95	6425	320	6425	2.30	-69.06	-66.66	-64.16	-62.0	-2.16
				6500	2.30	-69.65	-68.05	-66.25	-62.0	-4.25
UNII Band 7	149	6695	20	6695	2.30	-70.67	-69.27	-67.47	-62.0	-5.47
				6670	2.30	-70.42	-68.62	-66.42	-62.0	-4.42
	159	6745	320	6745	2.30	-68.55	-67.15	-65.35	-62.0	-3.35
				6820	2.30	-69.42	-67.42	-65.12	-62.0	-3.12
UNII Band 8	197	6935	20	6935	2.30	-71.87	-70.47	-68.47	-62.0	-6.47
				6830	2.30	-69.57	-67.67	-65.37	-62.0	-3.37
	191	6905	320	6905	2.30	-67.36	-65.76	-64.06	-62.0	-2.06
				6980	2.30	-67.70	-66.20	-63.70	-62.0	-1.70

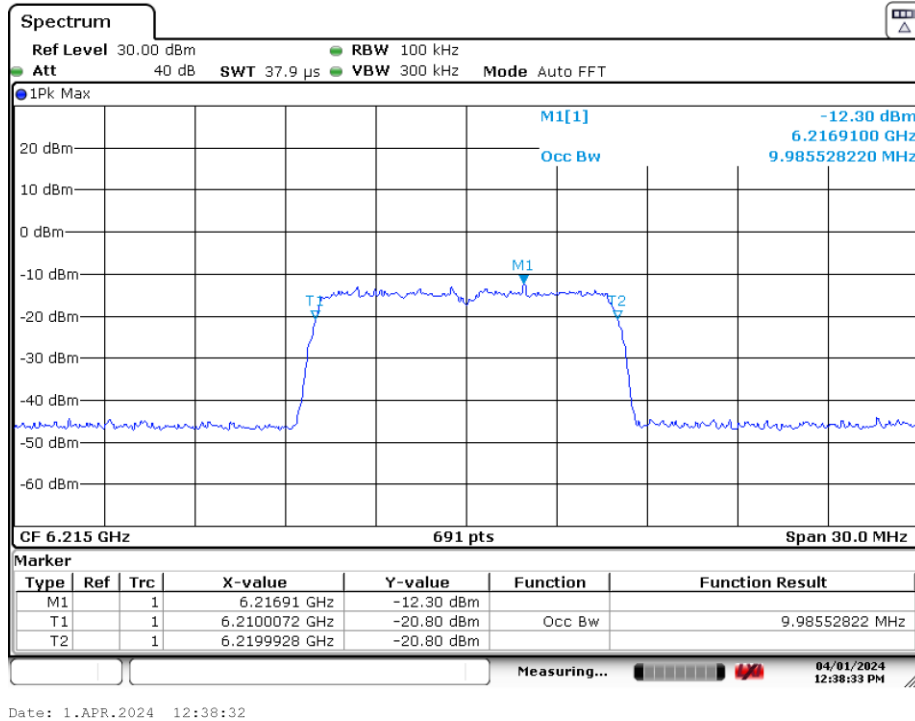
Table 7-47. Contention Based Protocol – Detection Results – All Tx Cases

Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Detection Rate (%)	
UNII Band 5	53	6215	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	31	6265	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
UNII Band 6	101	6455	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	95	6425	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
UNII Band 7	149	6695	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	159	6745	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
UNII Band 8	197	6935	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	191	6905	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Table 7-48. Contention Based Protocol – Incumbent Detection Trial Results

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 242 of 277

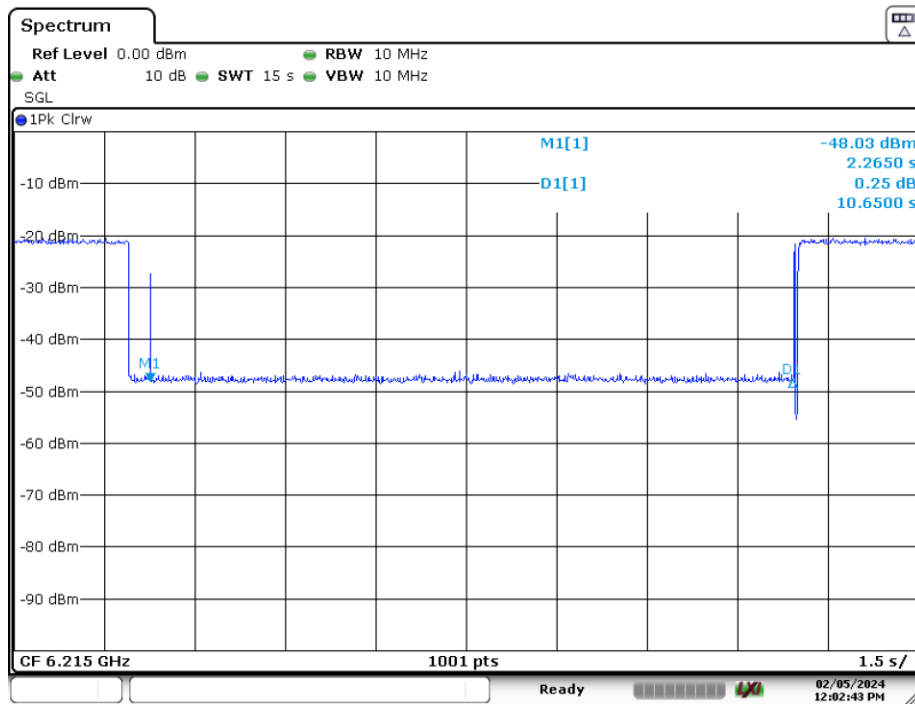
7.6.1 AWGN Plots



Plot 7-381. AWGN Signal (Demonstration)

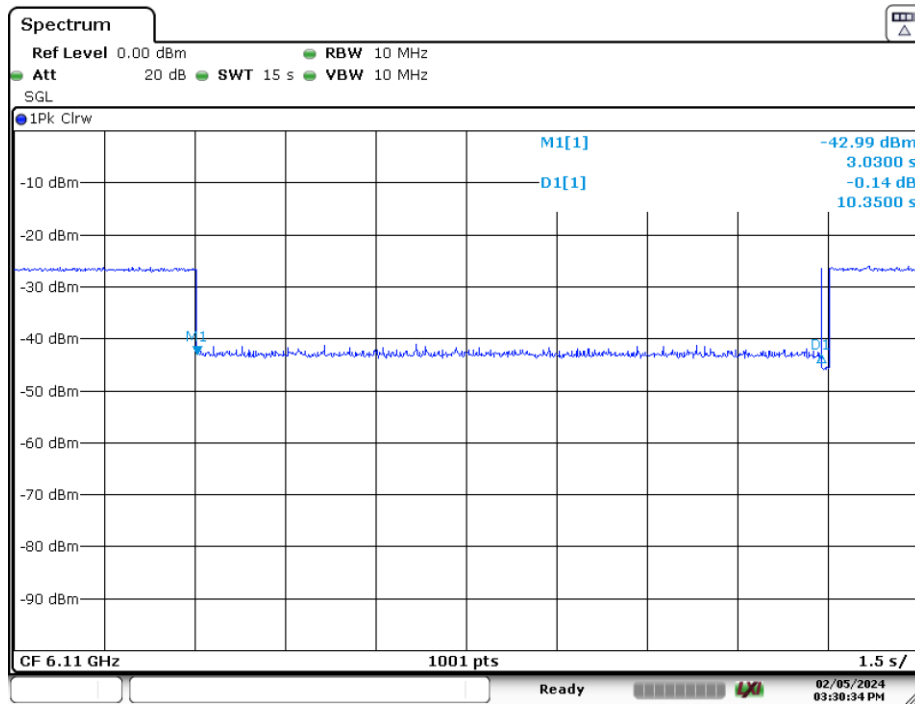
FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 243 of 277

7.6.2 CBP Timing Plots



Date: 5.FEB.2024 12:02:43

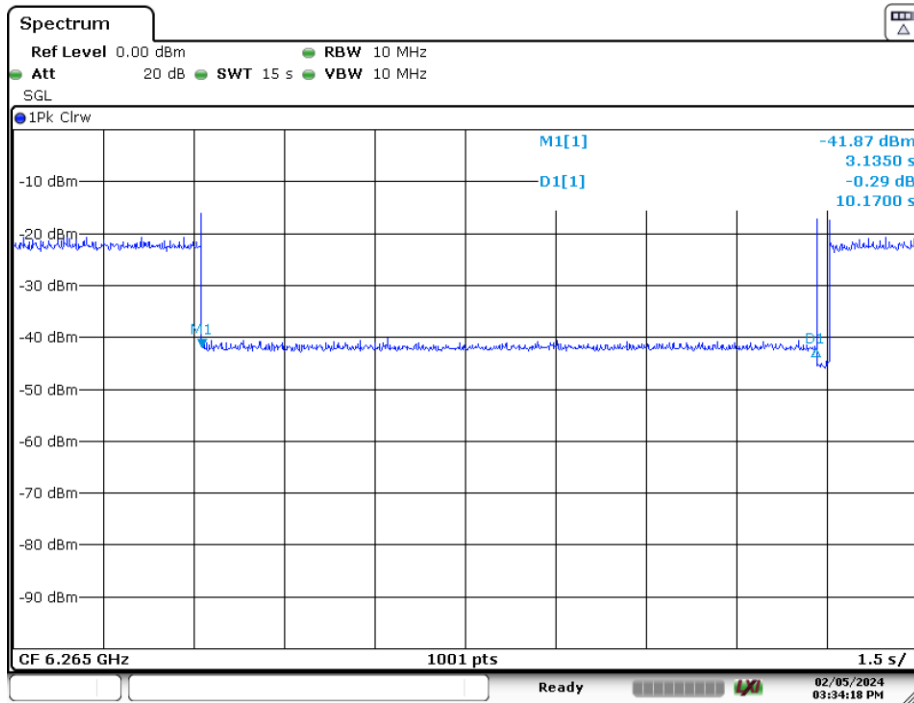
Plot 7-382. Contention Based Protocol Timing Plot (20MHz (UNII Band 5) – Ch. 53)



Date: 5.FEB.2024 15:30:34

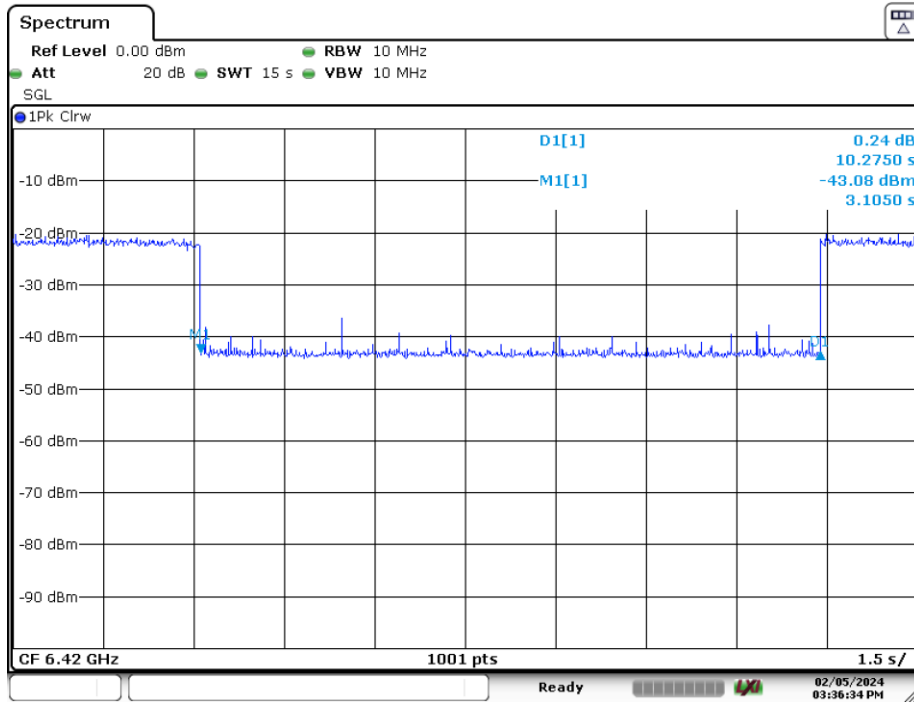
FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 244 of 277

Plot 7-383. Contention Based Protocol Timing Plot (320MHz (UNII Band 5) – Ch. 31 Low)



Date: 5.FEB.2024 15:34:17

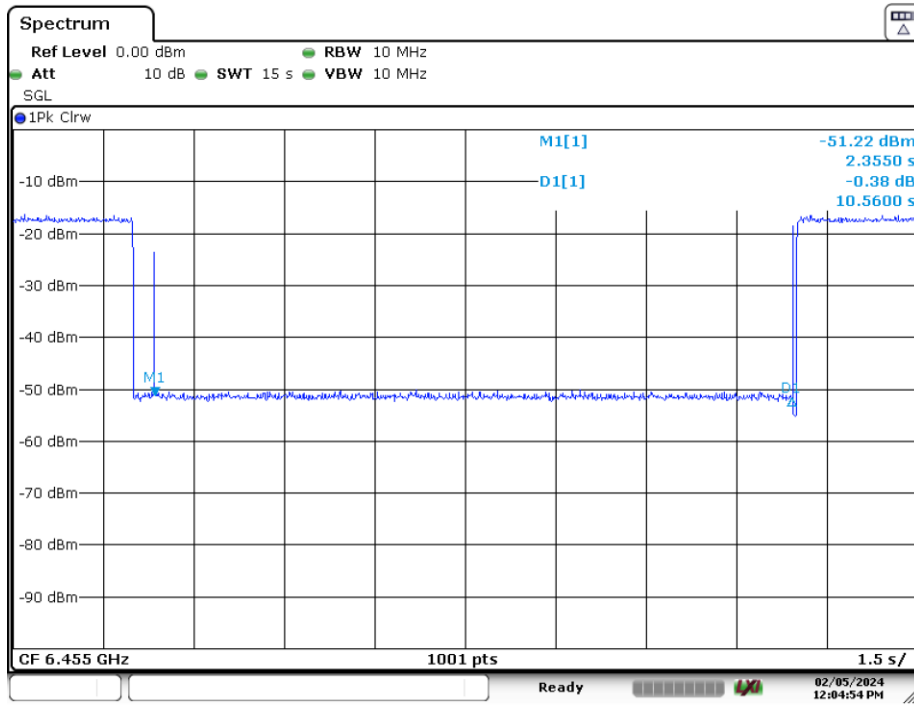
Plot 7-384. Contention Based Protocol Timing Plot (320MHz (UNII Band 5) – Ch. 31 Mid)



Date: 5.FEB.2024 15:36:34

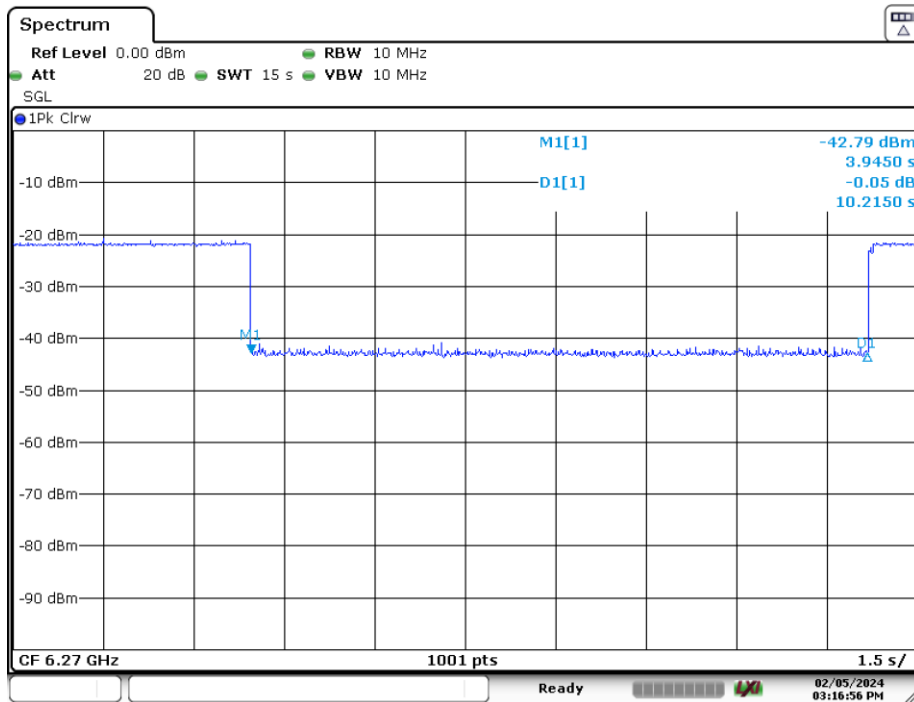
Plot 7-385. Contention Based Protocol Timing Plot (320MHz (UNII Band 5) – Ch. 31 High)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 245 of 277



Date: 5.FEB.2024 12:04:54

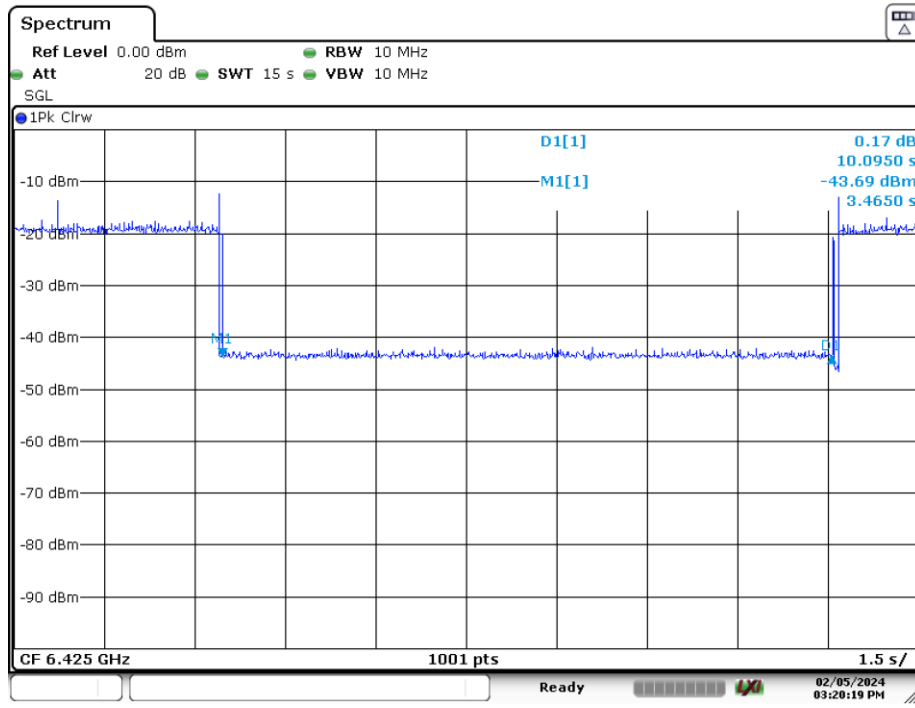
Plot 7-386. Contention Based Protocol Timing Plot (20MHz (UNII Band 6) – Ch. 101)



Date: 5.FEB.2024 15:16:56

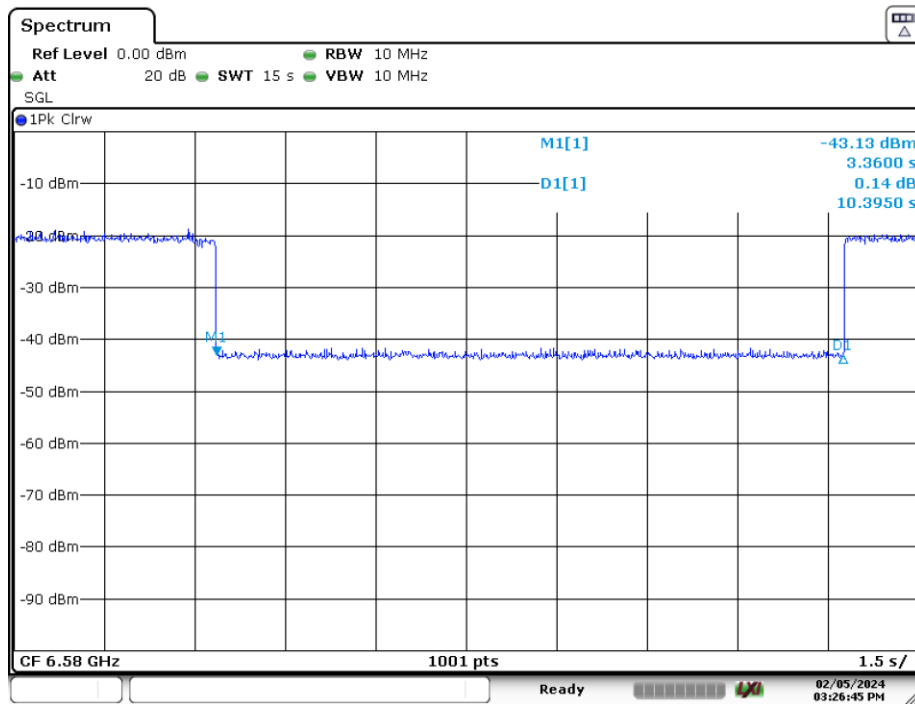
Plot 7-387. Contention Based Protocol Timing Plot (320MHz (UNII Band 6) – Ch. 95 Low)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 246 of 277



Date: 5.FEB.2024 15:20:19

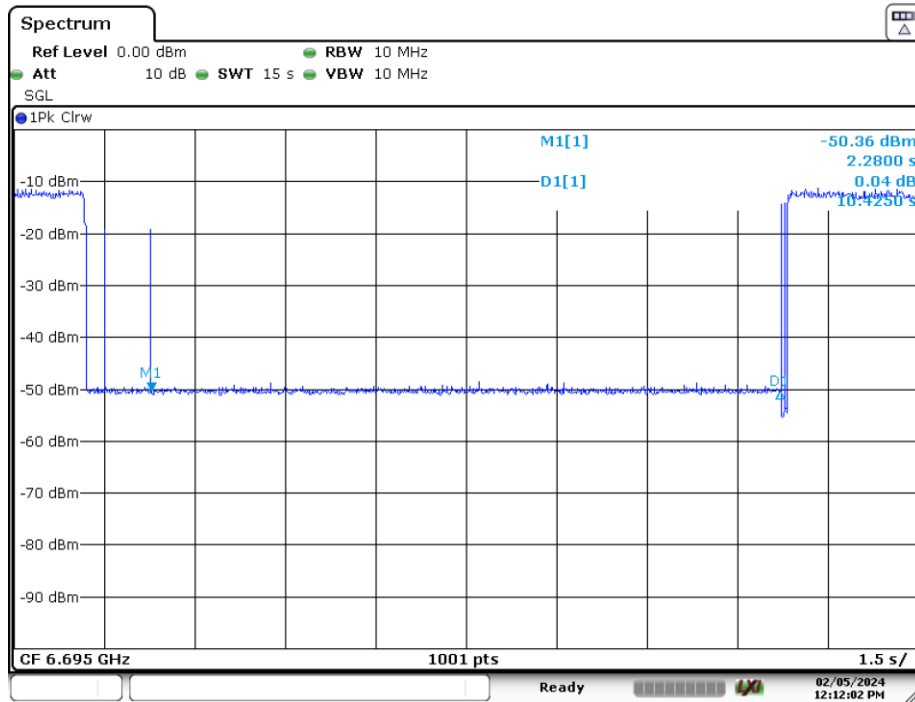
Plot 7-388. Contention Based Protocol Timing Plot (320MHz (UNII Band 6) – Ch. 95 Mid)



Date: 5.FEB.2024 15:26:45

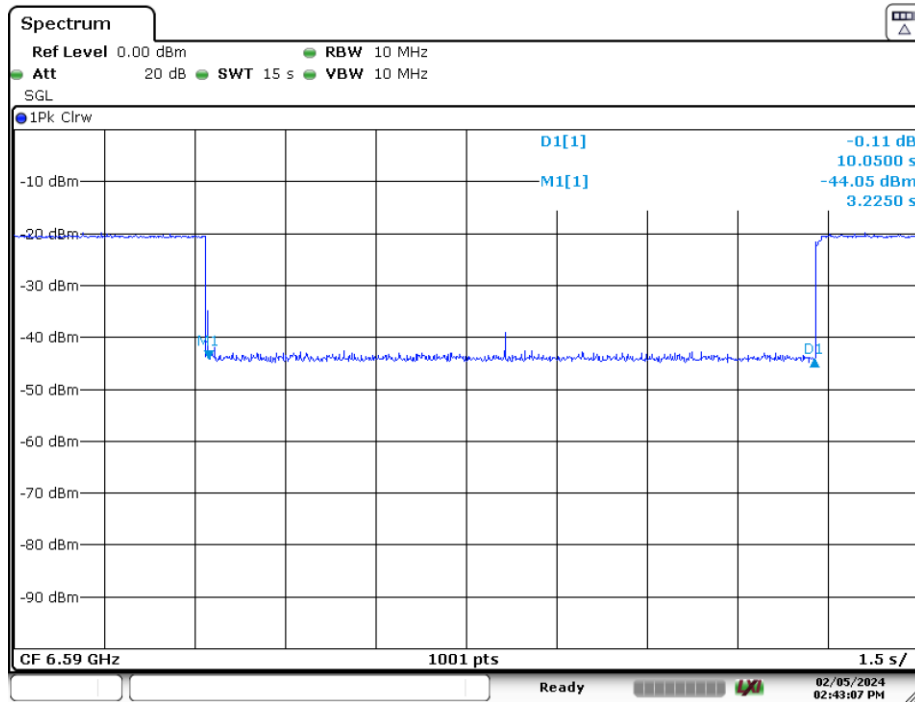
Plot 7-389. Contention Based Protocol Timing Plot (320MHz (UNII Band 6) – Ch. 95 High)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 247 of 277



Date: 5.FEB.2024 12:12:02

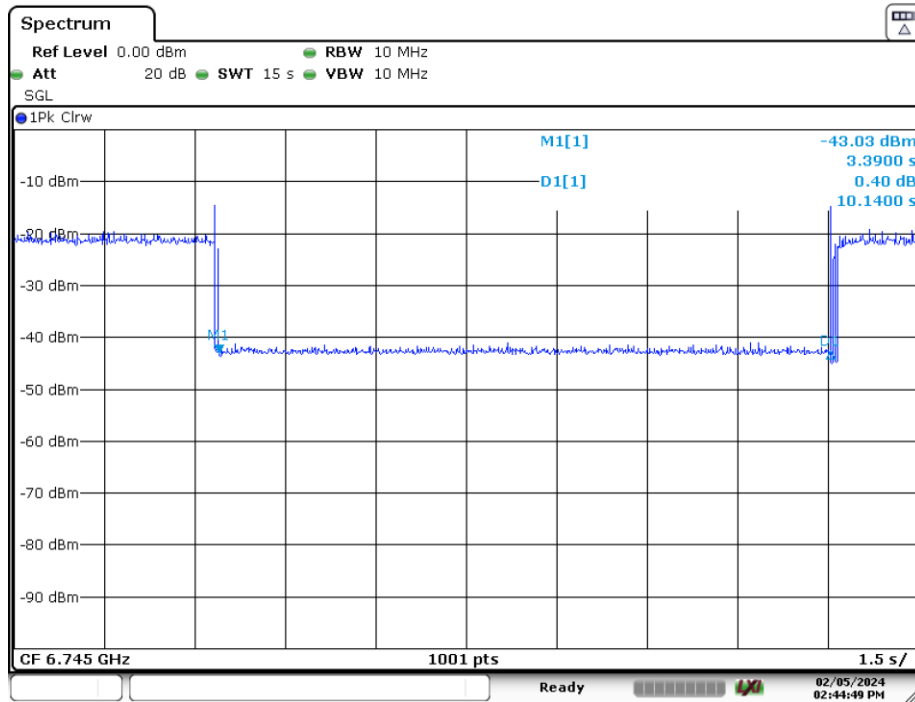
Plot 7-390. Contention Based Protocol Timing Plot (20MHz (UNII Band 7) – Ch. 149)



Date: 5.FEB.2024 14:43:07

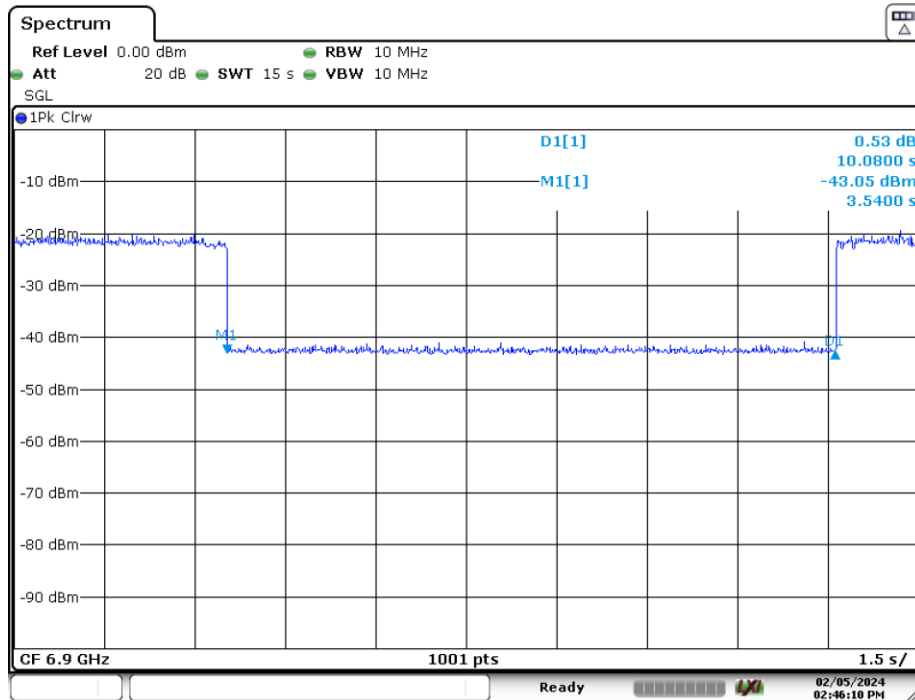
Plot 7-391. Contention Based Protocol Timing Plot (320MHz (UNII Band 7) – Ch. 159 Low)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 248 of 277



Date: 5.FEB.2024 14:44:49

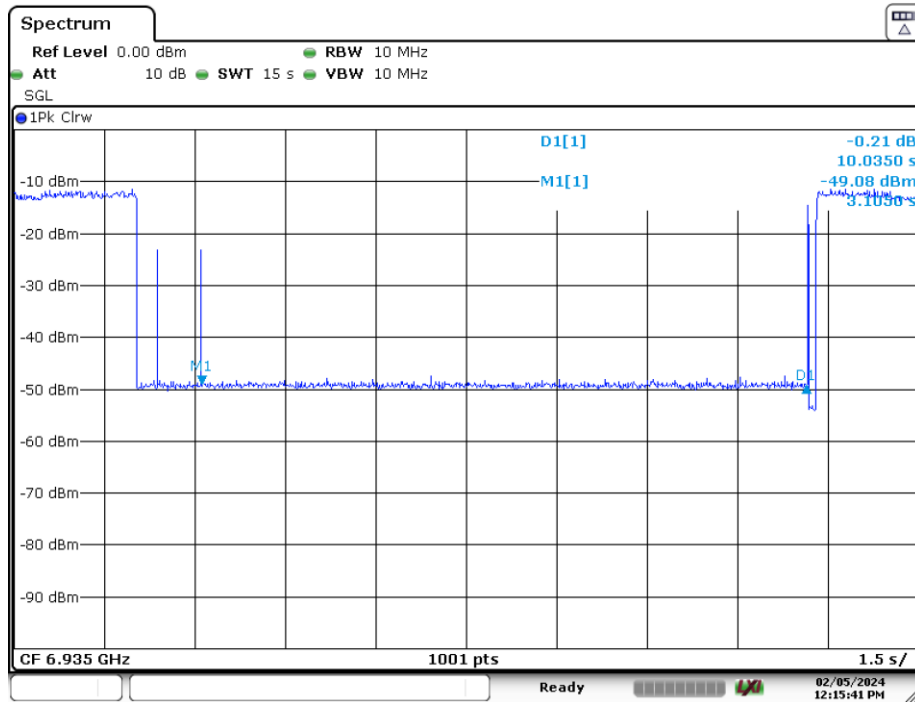
Plot 7-392. Contention Based Protocol Timing Plot (320MHz (UNII Band 7) – Ch. 159 Mid)



Date: 5.FEB.2024 14:46:10

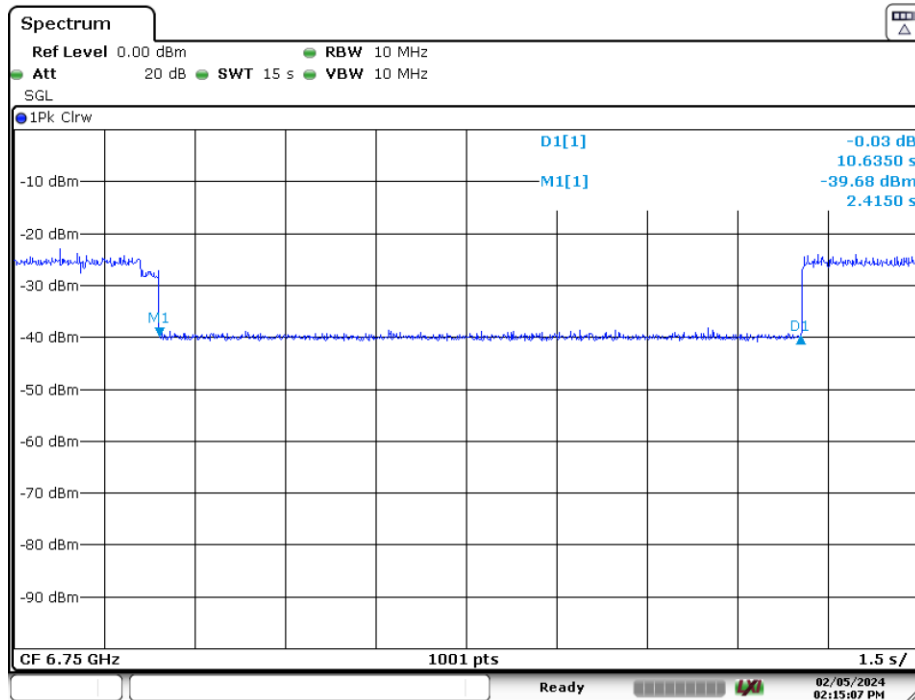
Plot 7-393. Contention Based Protocol Timing Plot (320MHz (UNII Band 7) – Ch. 159 High)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 249 of 277



Date: 5.FEB.2024 12:15:40

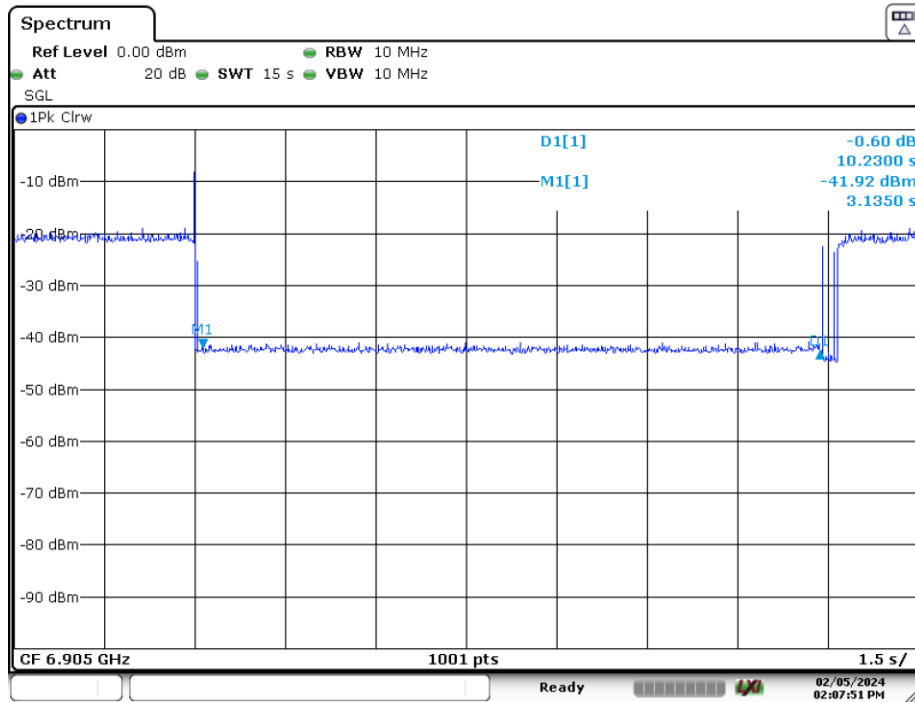
Plot 7-394. Contention Based Protocol Timing Plot (20MHz (UNII Band 8) – Ch. 197)



Date: 5.FEB.2024 14:15:07

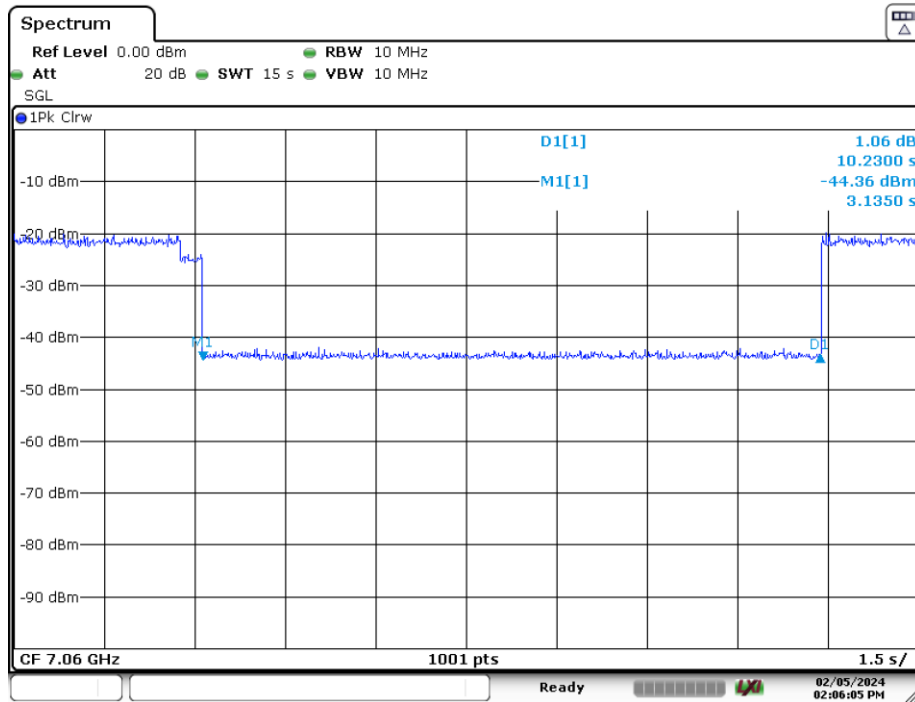
Plot 7-395. Contention Based Protocol Timing Plot (320MHz (UNII Band 8) – Ch. 191 Low)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 250 of 277



Date: 5.FEB.2024 14:07:51

Plot 7-396. Contention Based Protocol Timing Plot (320MHz (UNII Band 8) – Ch. 191 Mid)



Date: 5.FEB.2024 14:06:05

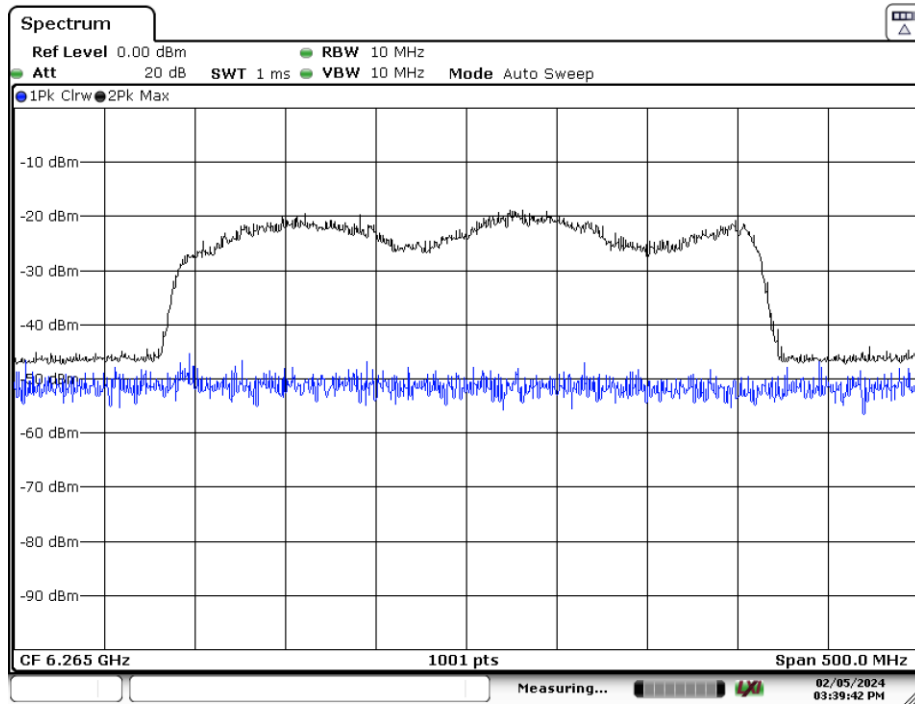
Plot 7-397. Contention Based Protocol Timing Plot (320MHz (UNII Band 8) – Ch. 191 High)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 251 of 277

7.6.3 Channel Move Plots

This section demonstrates the effect of injecting the AWGN signal at various locations throughout the 320MHz signal. The black trace shows the full 320MHz signal prior to AWGN injection while the blue trace shows the spectrum following AWGN injection. The following items were observed as demonstrated in the three plots shown below:

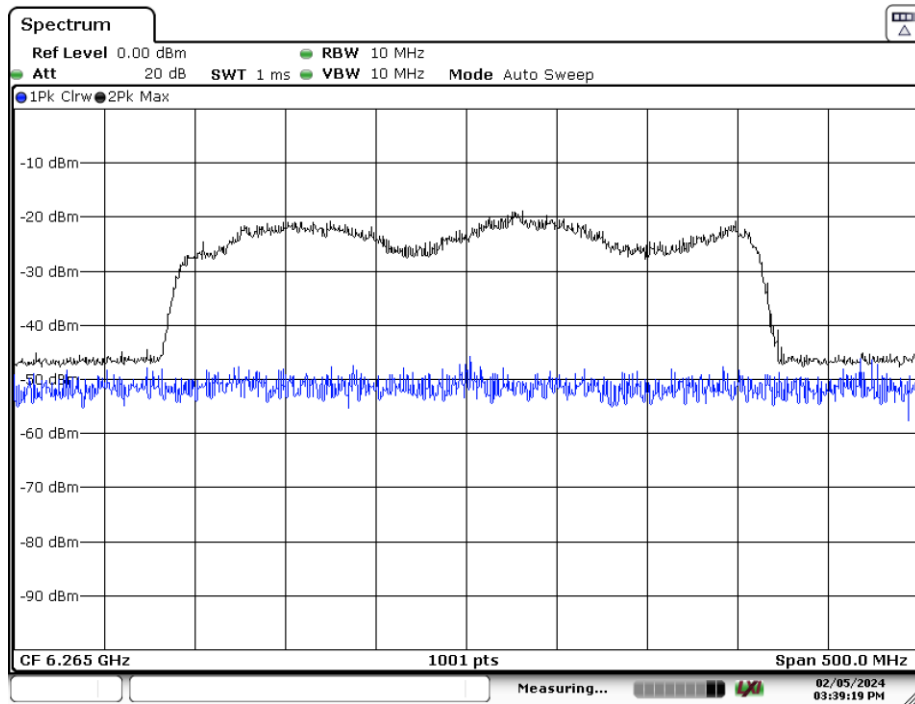
- When a 10 MHz AWGN signal centered at 6110 MHz (lower edge of channel) is injected, the channel completely stops transmitting.
- When a 10 MHz AWGN signal centered at 6265 MHz (middle of channel) is injected, the channel completely stops transmitting.
- When a 10 MHz AWGN signal centered at 6420 MHz (upper edge of channel) is injected, the channel reduces its operating bandwidth to 160MHz at the lower end of the spectrum.



Date: 5.FEB.2024 15:39:42

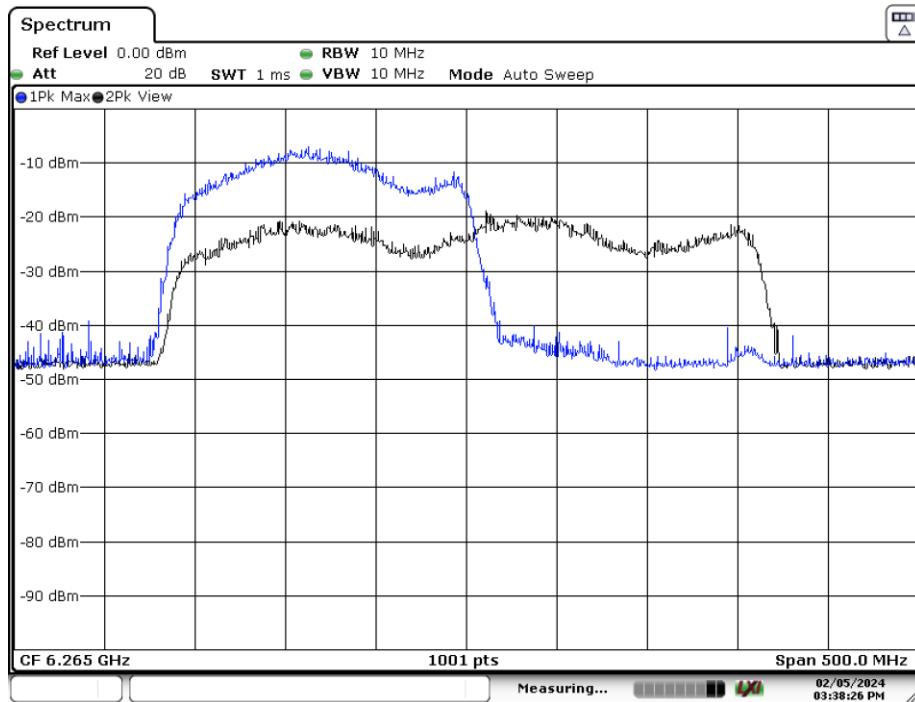
Plot 7-398. CBP 320MHz Channel - Injection Lower Edge – [6110 MHz]

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 252 of 277



Date: 5.FEB.2024 15:39:19

Plot 7-399. CBP 320MHz Channel - Injection Center – [6265 MHz]



Date: 5.FEB.2024 15:38:26

Plot 7-400. CBP 320MHz Channel - Injection Upper Edge – [6420 MHz]

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 253 of 277

7.7 Radiated Emission Measurements

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 its maximum power control level, as defined in ANSI C63.10-2013, and at the appropriate frequencies. All channels, modes (e.g. 802.11ax (20/40/80/160MHz)), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz

Emissions found in a restricted band are subject to the limits of 15.209 as shown in the table below.

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-49. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5

Test Settings – Above 1GHz

Average Field Strength Measurements (Method AD – Average Detection)

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 $\geq 2 \times \text{span} \backslash \backslash \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 254 of 277

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.

Test Settings – Below 1GHz

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest.
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize.

Test Setup

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

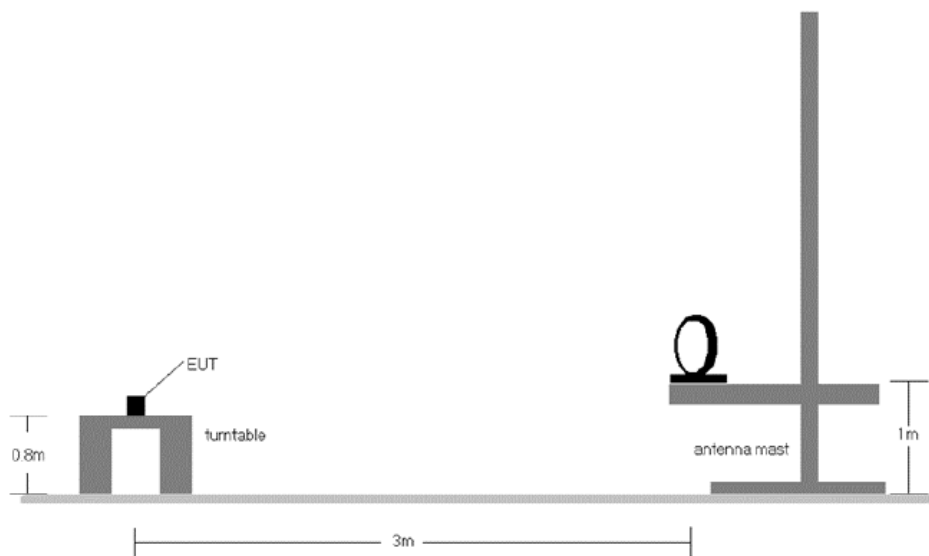


Figure 7-6. Radiated Test Setup < 30MHz

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 255 of 277

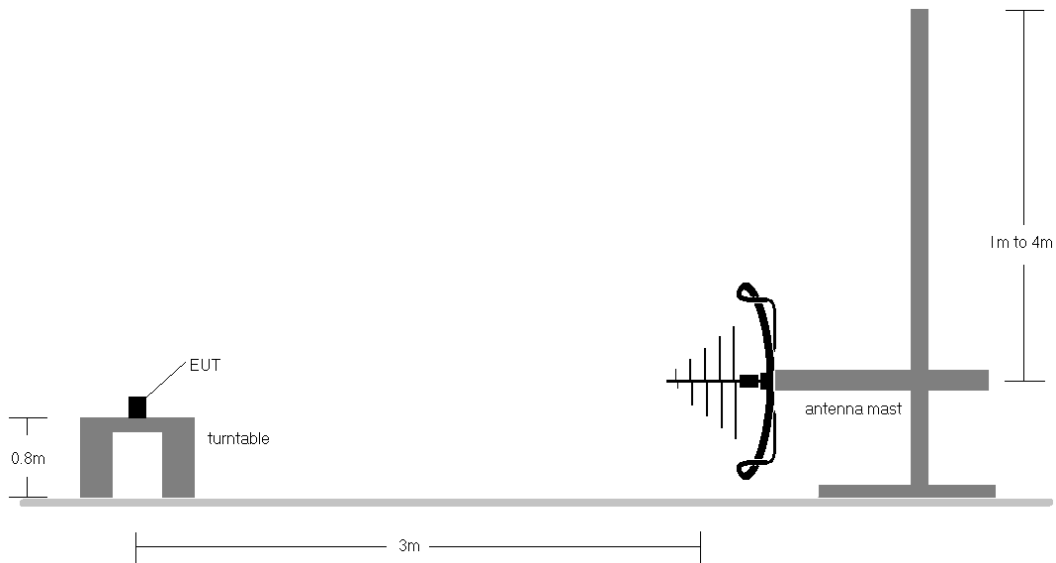


Figure 7-7. Radiated Test Setup < 1GHz

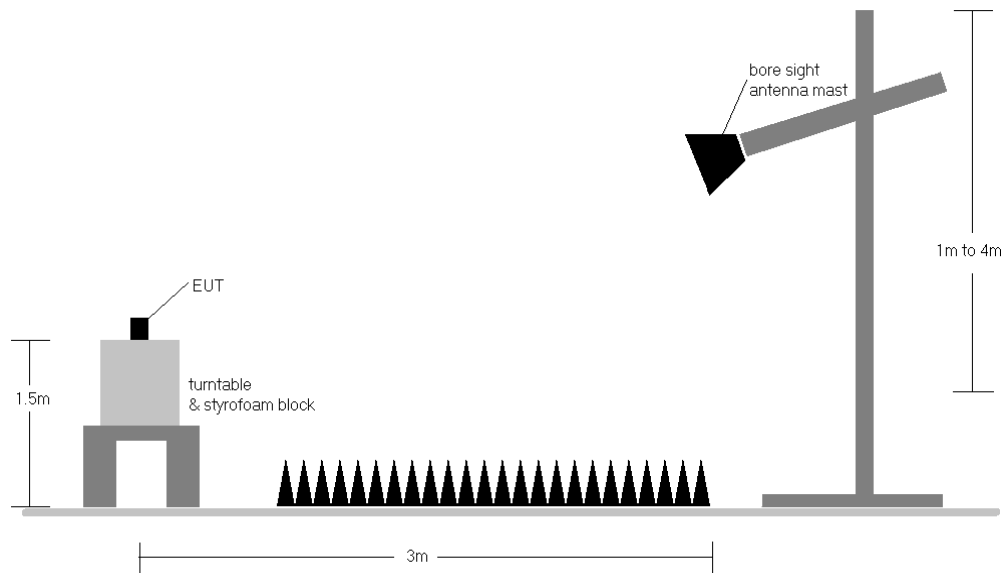


Figure 7-8. Radiated Test Setup > 1GHz

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

1. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in §15.209. All spurious emissions that do not lie in a restricted band are subject to an average limit of -27dBm/MHz. At 3 meters, the field strength limit in dB μ V/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
2. All spurious emissions that do not lie in a restricted band are subject to a peak limit not to exceed 20dB of the average limit [68.2dB μ V/m]. If a peak measurement passes the average limit, it was determined no further investigation is necessary.
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.
9. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of 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

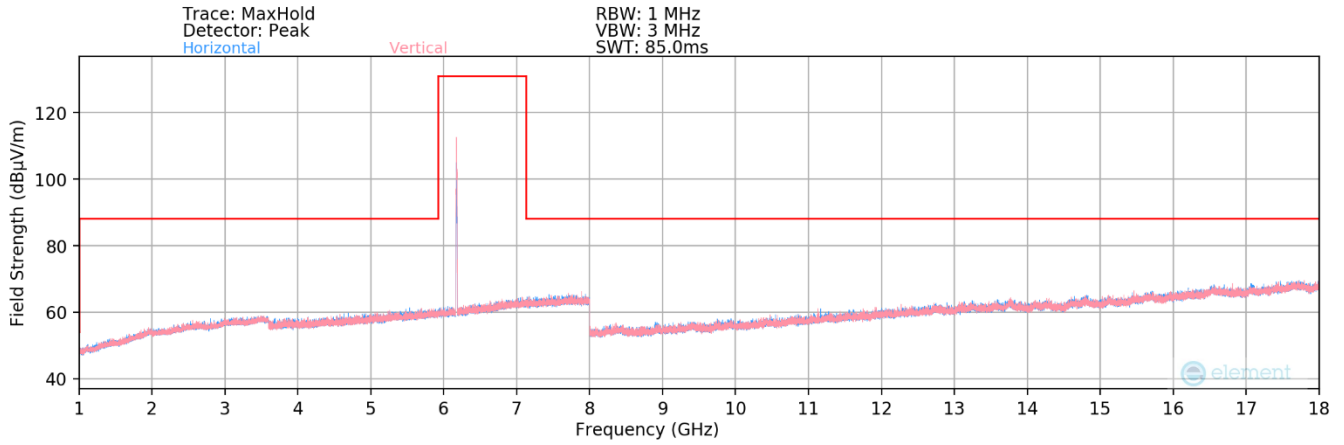
- Field Strength Level [dB μ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

Radiated Band Edge Measurement Offset

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

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7.7.1 MIMO Radiated Spurious Emission Measurements (26 Tones)

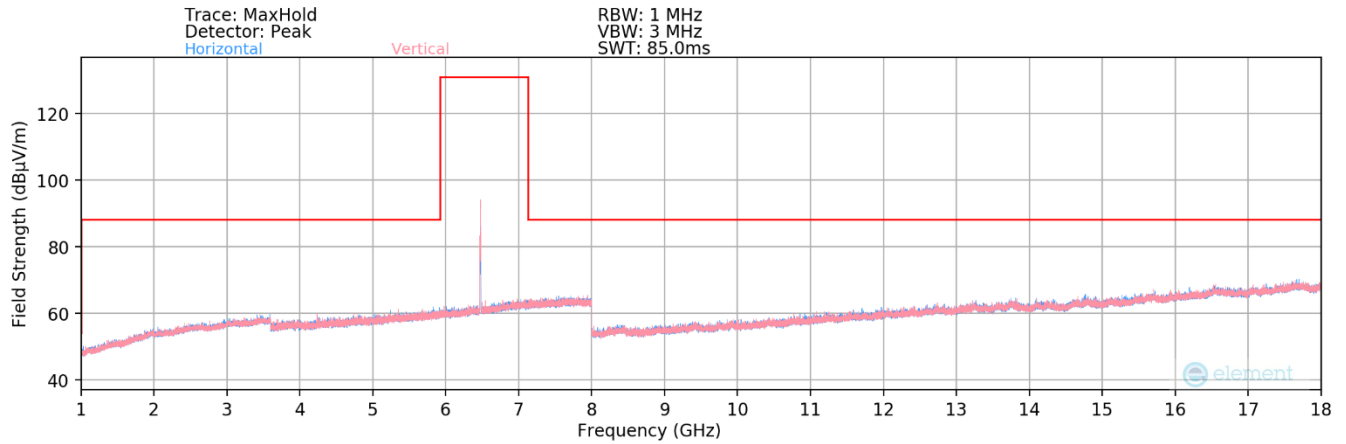


Plot 7-401. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11be – UNII Band 5 Ch. 45) – SP & LPI

Mode	Antenna	UNII Band	Channel	Test Channel Error	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turnable Azimuth [degrees]	Analyzer Level [dBm]	APCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
802.11be RU 26T	MIMO	5	1	5955	4	*	11910.00	Average	H	-	-	-82.01	18.56	0.00	43.55	53.98	-10.43
						*	11910.00	Peak	H	-	-	-69.80	18.56	0.00	55.76	73.98	-18.22
						*	17865.00	Average	H	-	-	-82.53	26.45	0.00	50.92	53.98	-3.06
						*	17865.00	Peak	H	-	-	-70.69	26.45	0.00	62.76	73.98	-11.22
						*	23820.00	Average	H	-	-	-64.40	3.69	-9.54	36.75	53.98	-17.23
						*	23820.00	Peak	H	-	-	-53.63	3.69	-9.54	47.52	73.98	-26.46
			29775.00	Peak	H	-	-	-55.61	5.69	-9.54	47.54	68.20	-20.66				
			12350.00	Average	H	-	-	-81.82	19.15	0.00	44.33	53.98	-9.65				
		*	12350.00	Peak	H	-	-	-70.44	19.15	0.00	55.71	73.98	-18.27				
		*	18525.00	Average	H	-	-	-63.67	1.35	-9.54	35.14	53.98	-18.84				
		*	18525.00	Peak	H	-	-	-52.63	1.35	-9.54	46.18	73.98	-27.80				
			24700.00	Peak	H	-	-	-53.92	3.92	-9.54	47.46	68.20	-20.74				
			30875.00	Peak	H	-	-	-56.57	6.52	-9.54	47.41	68.20	-20.79				
			12830.00	Peak	H	-	-	-70.71	20.24	0.00	56.53	68.20	-11.67				
		*	19245.00	Average	H	-	-	-65.61	2.14	-9.54	33.99	53.98	-19.99				
		*	19245.00	Peak	H	-	-	-52.45	2.14	-9.54	47.15	73.98	-26.83				
			25660.00	Peak	H	-	-	-53.74	4.06	-9.54	47.78	68.20	-20.42				
			32075.00	Peak	H	-	-	-55.89	7.31	-9.54	48.88	68.20	-19.32				

Table 7-50. Radiated Measurements MIMO (26 Tones) - SP & LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 258 of 277

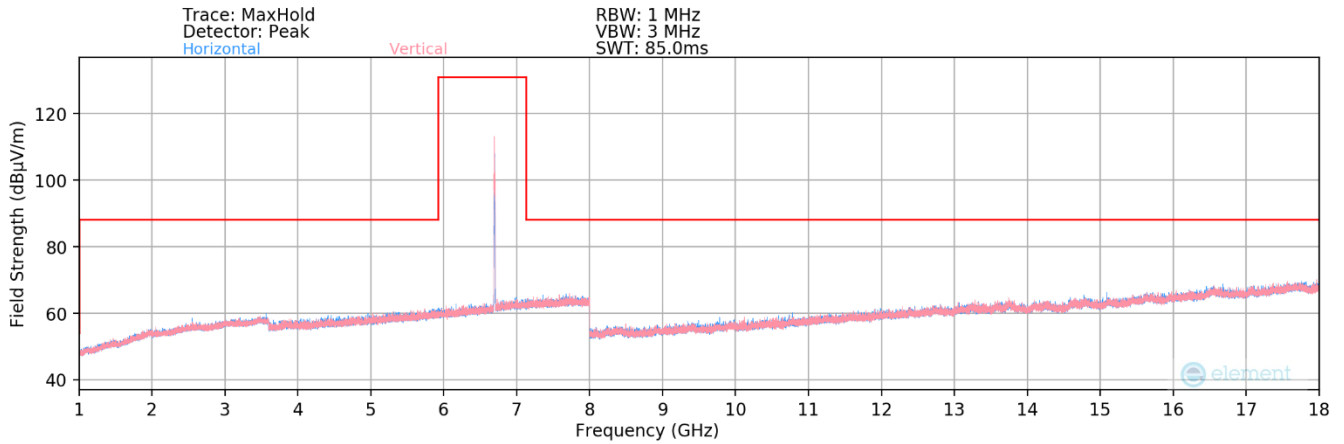


Plot 7-402. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11be – UNII Band 6 Ch. 105) – LPI

Mode	Antenna	UNII Band	Channel	Test Channel Freq.	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
802.11be RU 26T	MIMO	6	97	6435	4		12870.00	Peak	H	-	-	-70.81	20.11	0.00	56.30	68.20	-11.90
						*	19305.00	Average	H	-	-	-65.83	1.91	-9.54	33.54	53.98	-20.44
						*	19305.00	Peak	H	-	-	-53.08	1.91	-9.54	46.29	73.98	-27.69
							25740.00	Peak	H	-	-	-53.13	4.17	-9.54	48.50	68.20	-19.70
							32175.00	Peak	H	-	-	-55.85	7.29	-9.54	48.90	68.20	-19.30
				12950.00	Peak	H	-	-	-70.99	20.20	0.00	56.21	68.20	-11.99			
			*	19425.00	Average	H	-	-	-66.15	2.00	-9.54	33.31	53.98	-20.67			
			*	19425.00	Peak	H	-	-	-53.03	2.00	-9.54	46.43	73.98	-27.55			
				25900.00	Peak	H	-	-	-53.65	4.35	-9.54	48.16	68.20	-20.04			
				32375.00	Peak	H	-	-	-56.38	6.96	-9.54	48.05	68.20	-20.15			
				13030.00	Peak	H	-	-	-70.39	20.73	0.00	57.34	68.20	-10.86			
			*	19545.00	Average	H	-	-	-66.21	2.03	-9.54	33.28	53.98	-20.70			
			*	19545.00	Peak	H	-	-	-53.05	2.03	-9.54	46.44	73.98	-27.54			
				26060.00	Peak	H	-	-	-53.81	4.52	-9.54	48.17	68.20	-20.03			
				32575.00	Peak	H	-	-	-55.82	6.28	-9.54	47.92	68.20	-20.28			

Table 7-51. Radiated Measurements MIMO (26 Tones) – LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 259 of 277

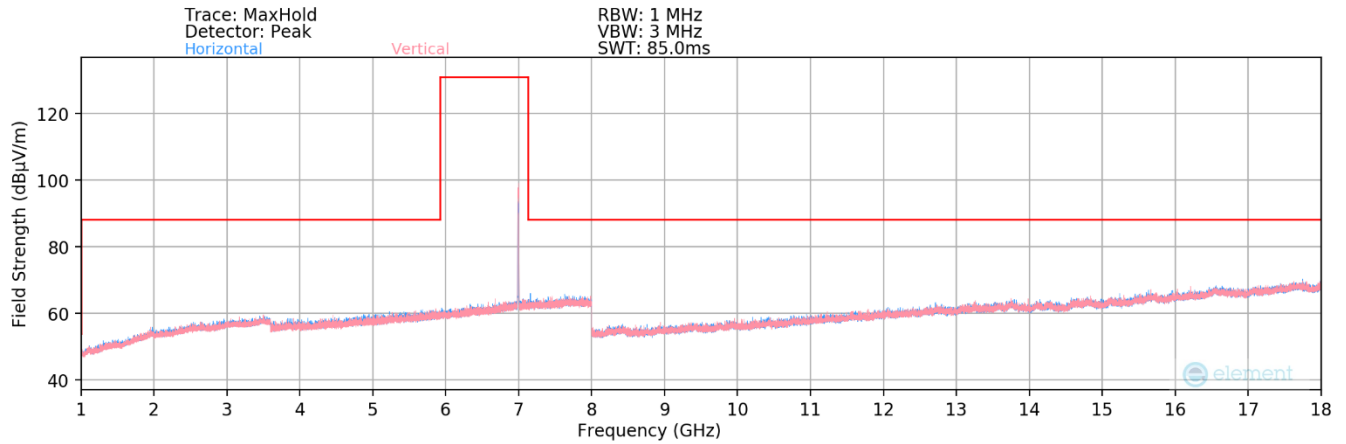


Plot 7-403. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11be – UNII Band 7 Ch. 149) – SP & LPI

Mode	Antenna	UNII Band	Channel	Test Channel Freq.	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]	
802.11be RU 26T	MIMO	7	117	6535	4		13070.00	Peak	H	-	-	-71.39	20.53	0.00	56.14	68.20	-12.06	
						*	19605.00	Average	H	-	-	-66.21	2.44	-9.54	33.69	53.98	-20.29	
						*	19605.00	Peak	H	-	-	-53.09	2.44	-9.54	46.81	73.98	-27.17	
							26140.00	Peak	H	-	-	-54.52	4.36	-9.54	47.30	68.20	-20.90	
							32675.00	Peak	H	-	-	-56.33	6.52	-9.54	47.64	68.20	-20.56	
				149	6695	4	*	13390.00	Average	H	-	-	-81.67	21.23	0.00	46.56	53.98	-7.42
			*				13390.00	Peak	H	-	-	-70.27	21.23	0.00	57.96	73.98	-16.02	
			*				20085.00	Peak	H	-	-	-66.52	2.83	-9.54	33.77	53.98	-20.21	
			*				20085.00	Average	H	-	-	-53.19	2.83	-9.54	47.10	73.98	-26.88	
							26780.00	Peak	H	-	-	-54.24	4.33	-9.54	47.55	68.20	-20.65	
				185	6875	4		33475.00	Peak	H	-	-	-56.34	6.78	-9.54	47.90	68.20	-20.30
							13750.00	Peak	H	-	-	-71.51	21.74	0.00	57.23	68.20	-10.97	
			*				20625.00	Average	H	-	-	-66.61	3.19	-9.54	34.04	53.98	-19.93	
			*				20625.00	Peak	H	-	-	-53.27	3.19	-9.54	47.38	73.98	-26.60	
							27500.00	Peak	H	-	-	-55.07	4.29	-9.54	46.68	68.20	-21.52	
						34375.00	Peak	H	-	-	-56.56	7.64	-9.54	48.54	68.20	-19.66		

Table 7-52. Radiated Measurements MIMO (26 Tones) - SP & LPI

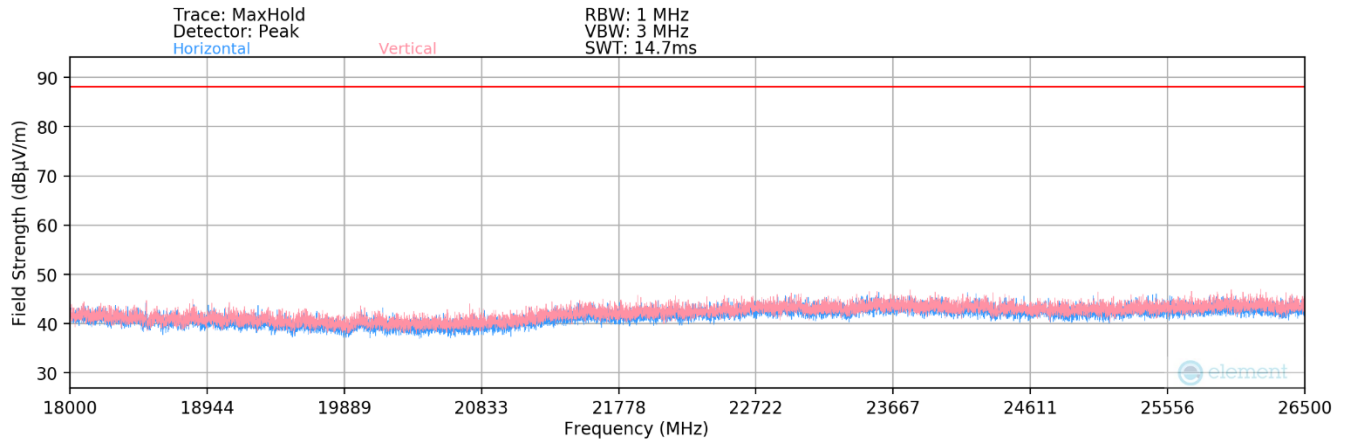
FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 260 of 277



Plot 7-404. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11be – U Band 8 Ch. 209) – LPI

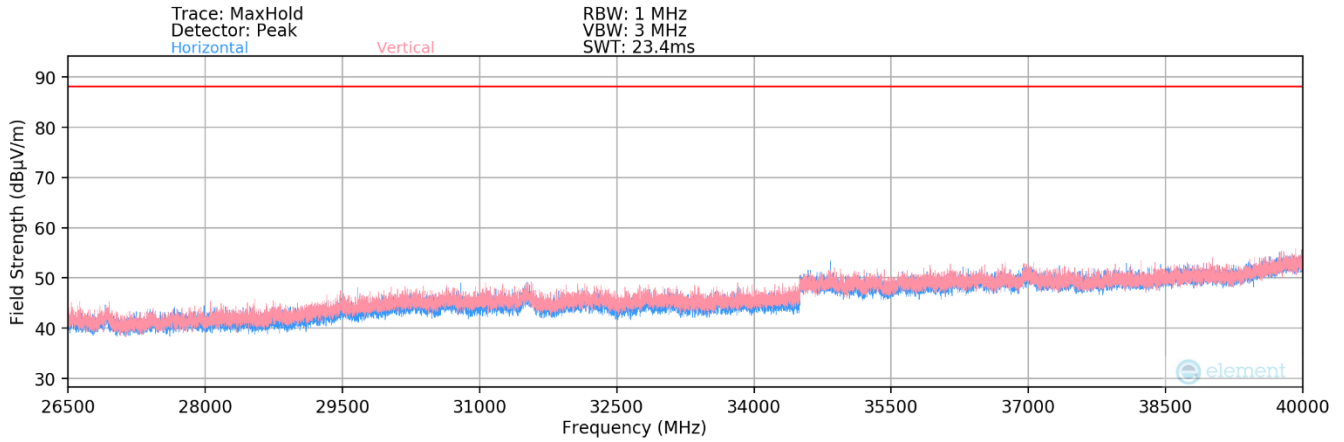
Mode	Antenna	UNII Band	Channel	Test Channel Freq.	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
802.11be RU 26T	MIMO	8	189	6895	4		13790.00	Peak	H	-	-	-72.26	21.78	0.00	56.52	68.20	-11.68
						*	20685.00	Average	H	-	-	-66.68	3.44	-9.54	34.22	53.98	-19.76
						*	20685.00	Peak	H	-	-	-53.62	3.44	-9.54	47.27	73.98	-26.71
							27580.00	Peak	H	-	-	-54.75	4.41	-9.54	47.12	68.20	-21.08
							34475.00	Peak	H	-	-	-56.52	7.51	-9.54	48.45	68.20	-19.75
				13990.00	Peak	H	-	-	-73.02	21.47	0.00	55.45	68.20	-12.75			
			*	20985.00	Average	H	-	-	-66.87	3.43	-9.54	34.02	53.98	-19.96			
			*	20985.00	Peak	H	-	-	-53.54	3.43	-9.54	47.35	73.98	-26.63			
				27980.00	Peak	H	-	-	-54.50	4.64	-9.54	47.61	68.20	-20.59			
				34975.00	Peak	H	-	-	-56.24	7.84	-9.54	49.06	68.20	-19.14			
				14230.00	Peak	H	-	-	-74.74	22.25	0.00	54.51	68.20	-13.69			
			*	21345.00	Average	H	-	-	-66.78	3.85	-9.54	34.53	53.98	-19.45			
			*	21345.00	Peak	H	-	-	-53.46	3.85	-9.54	47.86	73.98	-26.12			
				28460.00	Peak	H	-	-	-54.54	4.80	-9.54	47.72	68.20	-20.48			
				35575.00	Peak	H	-	-	-55.60	7.95	-9.54	49.81	68.20	-18.39			

Table 7-53. Radiated Measurements MIMO (26 Tones) – LPI



Plot 7-405. Radiated Spurious Plot 18GHz - 26.5GHz (802.11be)

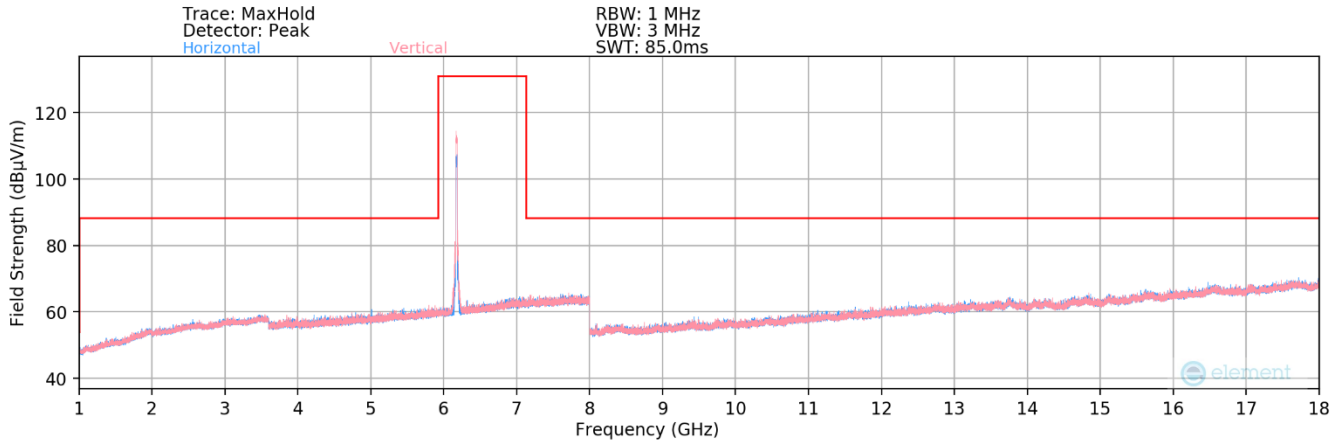
FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 261 of 277



Plot 7-406. Radiated Spurious Plot 26.5GHz - 40GHz (802.11be)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 262 of 277

7.7.2 MIMO Radiated Spurious Emission Measurements (242 Tones)

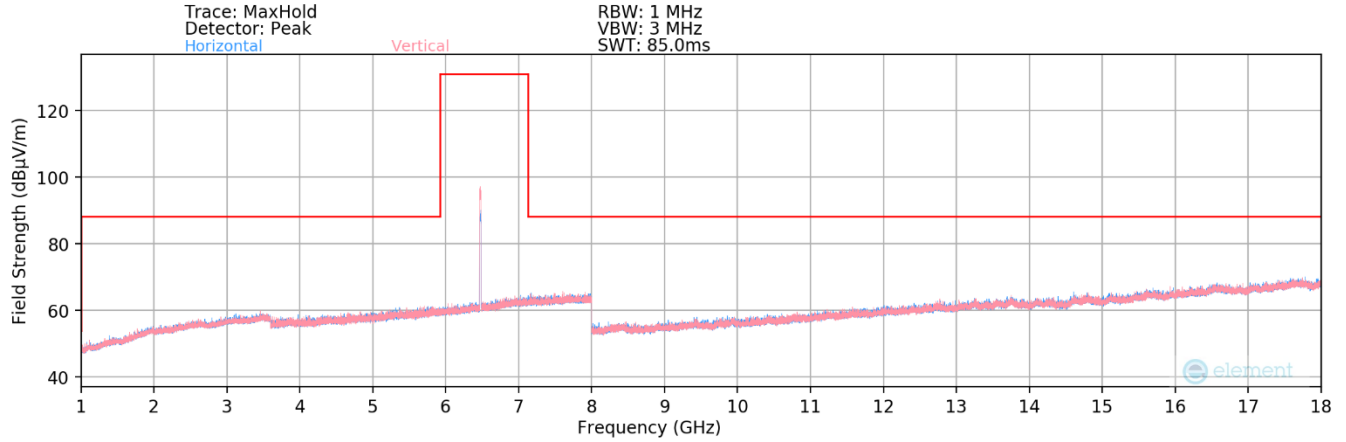


Plot 7-407. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11be – UNII Band 5 Ch. 45) - SP & LPI

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]		
802.11be RU 242T	MIMO	5	1	5955	61	*	11910.00	Average	H	-	-	-81.96	18.56	0.00	43.60	53.98	-10.38		
						*	11910.00	Peak	H	-	-	-69.46	18.56	0.00	56.10	73.98	-17.88		
						*	17865.00	Average	H	-	-	-82.55	26.45	0.00	50.90	53.98	-3.08		
						*	17865.00	Peak	H	-	-	-70.98	26.45	0.00	62.47	73.98	-11.51		
						*	23820.00	Average	H	-	-	-64.37	3.69	-9.54	36.78	53.98	-17.20		
						*	23820.00	Peak	H	-	-	-53.14	3.69	-9.54	48.01	73.98	-25.97		
									29775.00	Peak	H	-	-	-55.06	5.69	-9.54	48.09	68.20	-20.11
									12350.00	Average	H	-	-	-81.76	19.15	0.00	44.39	53.98	-9.59
									12350.00	Peak	H	-	-	-70.50	19.15	0.00	55.65	73.98	-18.33
									18525.00	Average	H	-	-	-63.38	1.35	-9.54	35.43	53.98	-18.55
									18525.00	Peak	H	-	-	-52.58	1.35	-9.54	46.23	73.98	-27.75
									24700.00	Peak	H	-	-	-54.03	3.92	-9.54	47.35	68.20	-20.85
									30875.00	Peak	H	-	-	-56.26	6.52	-9.54	47.71	68.20	-20.49
									12830.00	Peak	H	-	-	-70.62	20.24	0.00	56.62	68.20	-11.58
									19245.00	Average	H	-	-	-65.42	2.14	-9.54	34.19	53.98	-19.79
									19245.00	Peak	H	-	-	-52.17	2.14	-9.54	47.43	73.98	-26.55
									25660.00	Peak	H	-	-	-53.98	4.06	-9.54	47.54	68.20	-20.66
									32075.00	Peak	H	-	-	-55.45	7.31	-9.54	49.32	68.20	-18.88

Table 7-54. Radiated Measurements MIMO (242 Tones) – SP & LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 263 of 277

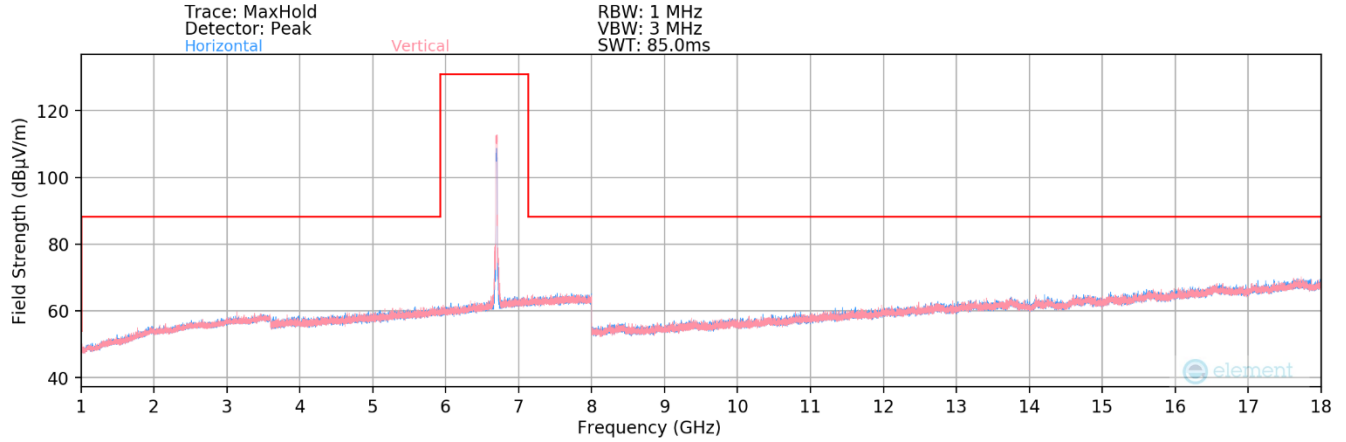


Plot 7-408. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11be – UNII Band 6 Ch. 105) – LPI

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
802.11be RU 242T	MIMO	6	97	6435	61		12870.00	Peak	H	-	-	-71.06	20.11	0.00	56.05	68.20	-12.15
						*	19305.00	Average	H	-	-	-65.91	1.91	-9.54	33.46	53.98	-20.52
						*	19305.00	Peak	H	-	-	-52.86	1.91	-9.54	46.51	73.98	-27.47
							25740.00	Peak	H	-	-	-53.99	4.17	-9.54	47.64	68.20	-20.56
							32175.00	Peak	H	-	-	-55.93	7.29	-9.54	48.82	68.20	-19.38
			105	6475	61		12950.00	Peak	H	-	-	-71.11	20.20	0.00	56.09	68.20	-12.11
						*	19425.00	Average	H	-	-	-66.09	2.00	-9.54	33.37	53.98	-20.61
						*	19425.00	Peak	H	-	-	-53.03	2.00	-9.54	46.43	73.98	-27.55
							25900.00	Peak	H	-	-	-53.49	4.35	-9.54	48.32	68.20	-19.88
				32375.00	Peak	H	-	-	-55.23	6.96	-9.54	49.20	68.20	-19.00			
			113	6515	61		13030.00	Peak	H	-	-	-71.03	20.73	0.00	56.70	68.20	-11.50
						*	19545.00	Average	H	-	-	-66.21	2.03	-9.54	33.28	53.98	-20.70
						*	19545.00	Peak	H	-	-	-53.18	2.03	-9.54	46.31	73.98	-27.67
							26060.00	Peak	H	-	-	-53.67	4.52	-9.54	48.31	68.20	-19.89
							32575.00	Peak	H	-	-	-56.20	6.28	-9.54	47.54	68.20	-20.66

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

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 264 of 277

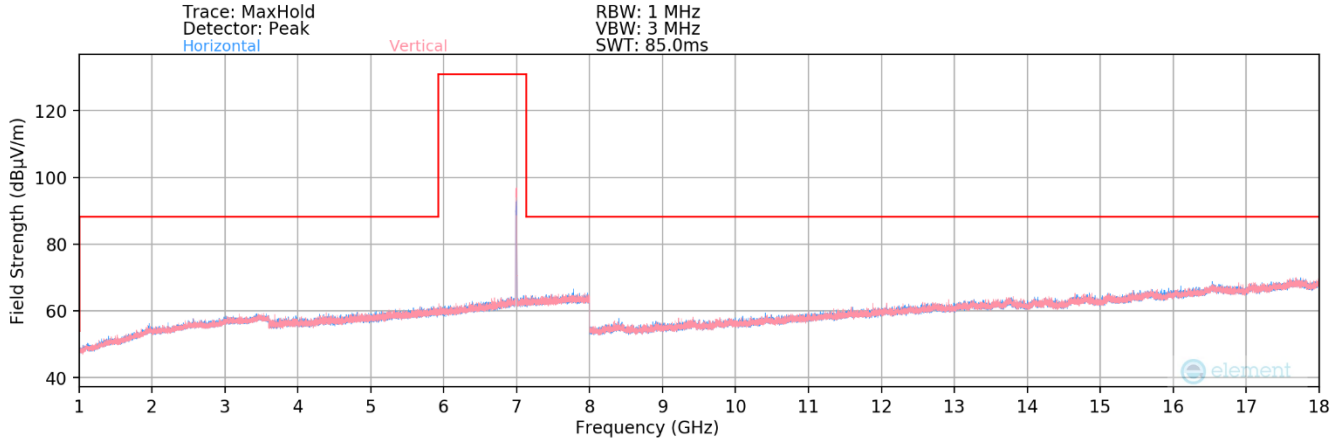


Plot 7-409. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11be – UNII Band 7 Ch. 149) – SP & LPI

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]			
802.11be RU 242T	MIMO	7	117	6535	61		13070.00	Peak	H	-	-	-71.45	20.53	0.00	56.08	68.20	-12.12			
						*	19605.00	Average	H	-	-	-66.11	2.44	-9.54	33.79	53.98	-20.18			
						*	19605.00	Peak	H	-	-	-52.85	2.44	-9.54	47.05	73.98	-26.93			
							26140.00	Peak	H	-	-	-53.96	4.36	-9.54	47.86	68.20	-20.34			
							32675.00	Peak	H	-	-	-56.52	6.52	-9.54	47.46	68.20	-20.74			
				149	6695	61	*	13390.00	Average	H	-	-	-81.75	21.23	0.00	46.48	53.98	-7.50		
			*				13390.00	Peak	H	-	-	-70.31	21.23	0.00	57.92	73.98	-16.06			
			*				20085.00	Peak	H	-	-	-66.35	2.83	-9.54	33.94	53.98	-20.04			
			*				20085.00	Average	H	-	-	-53.08	2.83	-9.54	47.21	73.98	-26.77			
							26780.00	Peak	H	-	-	-54.66	4.33	-9.54	47.14	68.20	-21.06			
				185	6875	61		13750.00	Peak	H	-	-	-71.47	21.74	0.00	57.27	68.20	-10.93		
			*				20625.00	Average	H	-	-	-66.35	3.19	-9.54	34.30	53.98	-19.67			
			*				20625.00	Peak	H	-	-	-52.92	3.19	-9.54	47.73	73.98	-26.25			
							27500.00	Peak	H	-	-	-54.38	4.29	-9.54	47.36	68.20	-20.84			
	34375.00	Peak	H				-	-	-56.44	7.64	-9.54	48.66	68.20	-19.54						

Table 7-56. Radiated Measurements MIMO (242 Tones) – SP & LPI

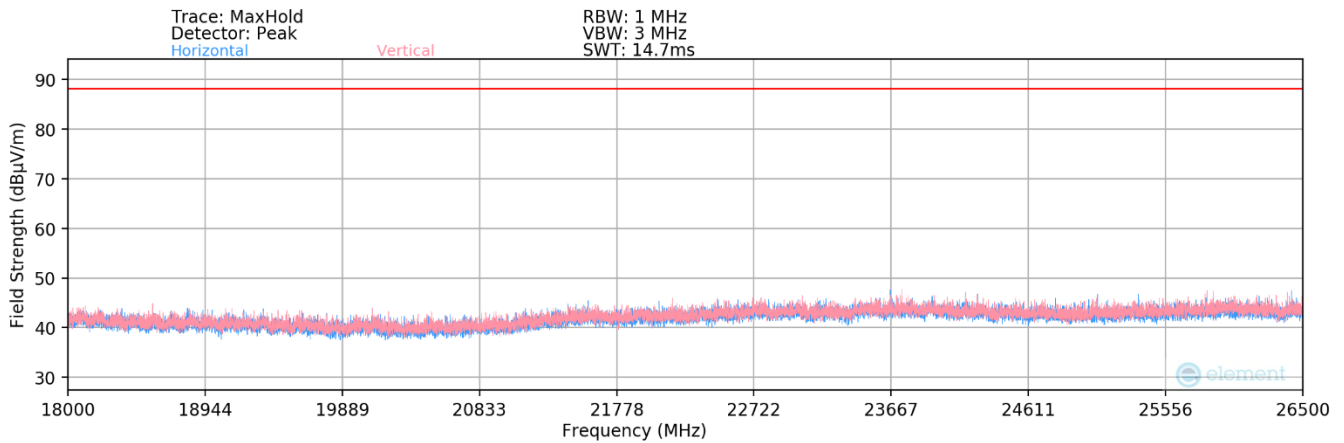
FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 265 of 277



Plot 7-410. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11be – U Band 8 Ch. 209) – LPI

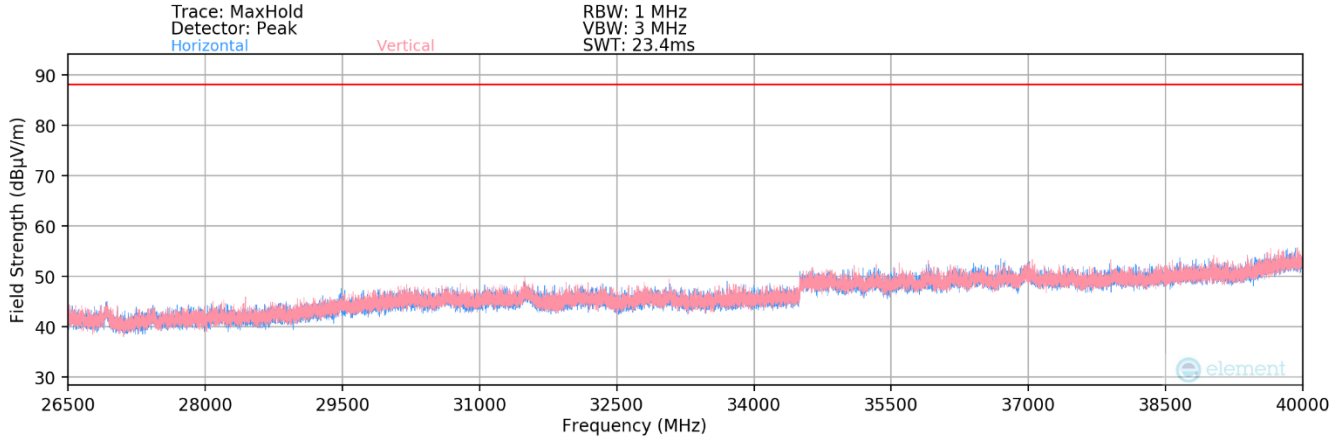
Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
802.11be RU 242T	MIMO	8	189	6895	61		13790.00	Peak	H	-	-	-71.75	21.78	0.00	57.03	68.20	-11.17
						*	20685.00	Average	H	-	-	-66.52	3.44	-9.54	34.38	53.98	-19.60
						*	20685.00	Peak	H	-	-	-53.55	3.44	-9.54	47.35	73.98	-26.63
							27580.00	Peak	H	-	-	-55.30	4.41	-9.54	46.57	68.20	-21.63
							34475.00	Peak	H	-	-	-57.03	7.51	-9.54	47.94	68.20	-20.26
			209	6995	61		13990.00	Peak	H	-	-	-73.21	21.47	0.00	55.26	68.20	-12.94
						*	20985.00	Average	H	-	-	-66.98	3.43	-9.54	33.91	53.98	-20.07
						*	20985.00	Peak	H	-	-	-53.83	3.43	-9.54	47.06	73.98	-26.92
							27980.00	Peak	H	-	-	-55.04	4.64	-9.54	47.06	68.20	-21.14
				34975.00	Peak	H	-	-	-56.02	7.84	-9.54	49.28	68.20	-18.92			
			233	7115	61		14230.00	Peak	H	-	-	-74.39	22.25	0.00	54.86	68.20	-13.34
						*	21345.00	Average	H	-	-	-66.74	3.85	-9.54	34.57	53.98	-19.41
						*	21345.00	Peak	H	-	-	-53.37	3.85	-9.54	47.94	73.98	-26.04
							28460.00	Peak	H	-	-	-55.10	4.80	-9.54	47.16	68.20	-21.04
							35575.00	Peak	H	-	-	-55.29	7.95	-9.54	50.12	68.20	-18.08

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



Plot 7-411. Radiated Spurious Plot 18GHz - 26.5GHz (802.11be)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 266 of 277

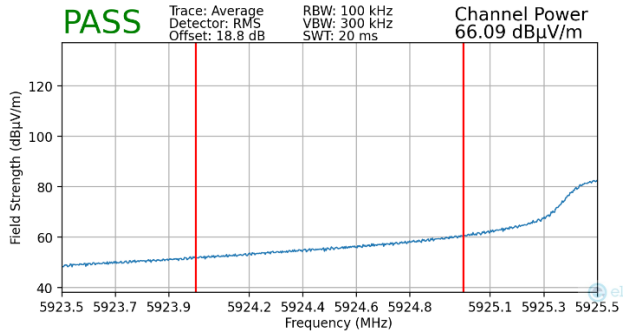


Plot 7-412. Radiated Spurious Plot 26.5GHz - 40GHz (802.11be)

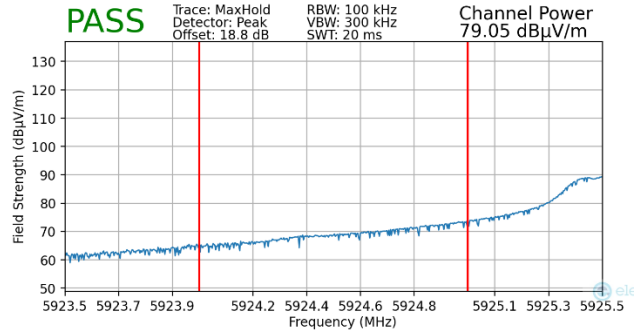
FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 267 of 277

7.7.3 MIMO Radiated Band Edge Measurements (20MHz BW – Partial Tone – 106T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	53
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

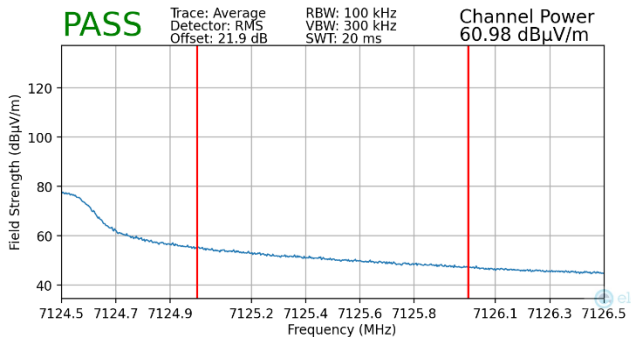


Plot 7-413. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 106T)

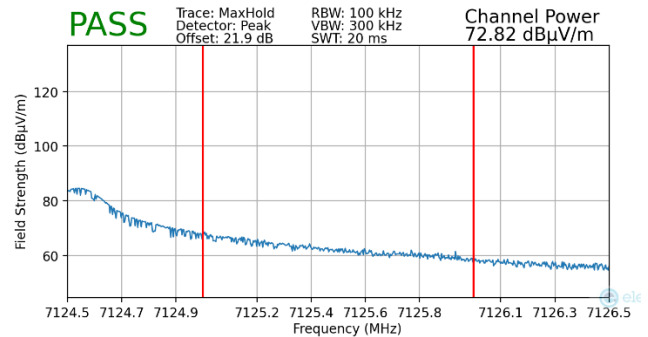


Plot 7-414. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 106T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	54
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



Plot 7-415. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 106T)

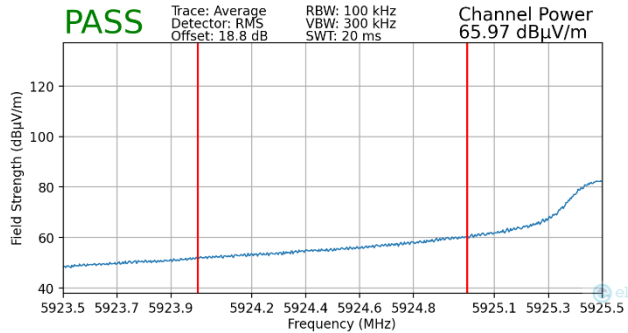


Plot 7-416. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 106T)

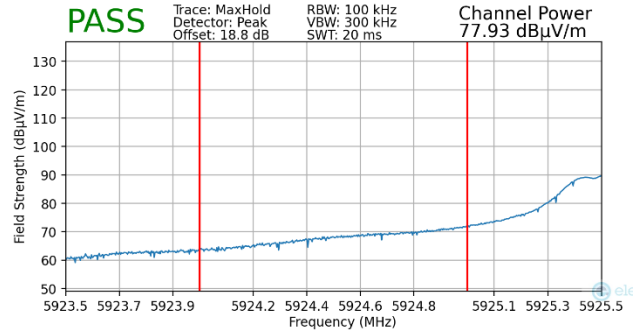
FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 268 of 277

7.7.4 MIMO Radiated Band Edge Measurements (20MHz BW – Full Tone – 242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

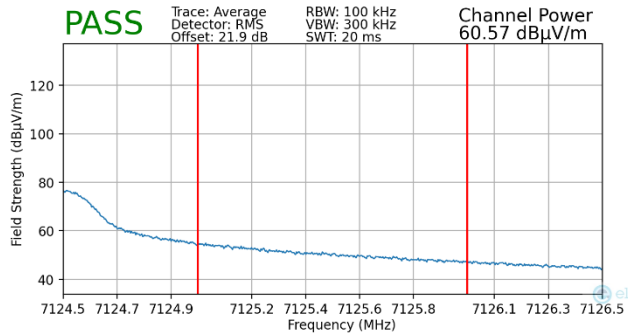


Plot 7-417. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 242T)

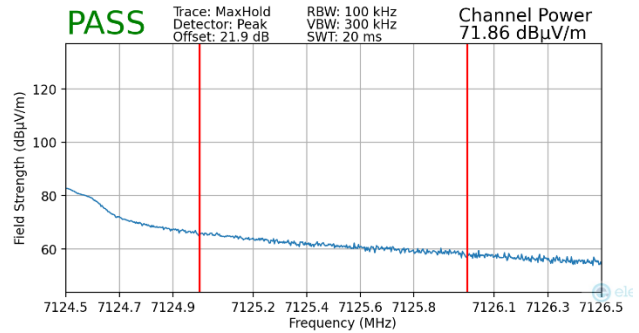


Plot 7-418. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



Plot 7-419. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 242T)



Plot 7-420. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 242T)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311170118-12-R2.C3K	Test Dates: 01/03/2024 - 04/01/2024	EUT Type: Portable Computing Device	Page 269 of 277