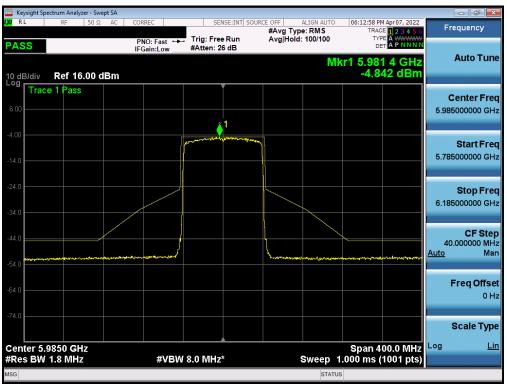


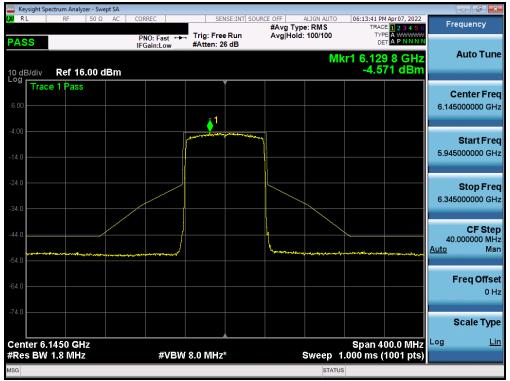
Plot 7-217. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 5) - Ch. 91)



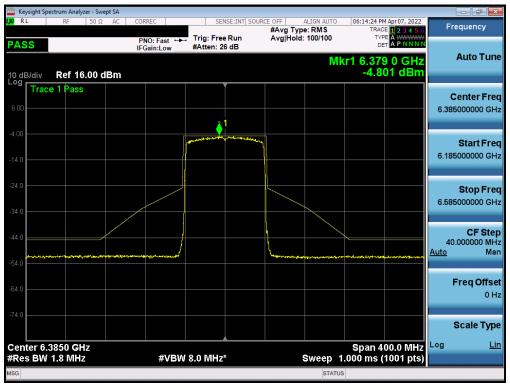
Plot 7-218. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 5) - Ch. 7)

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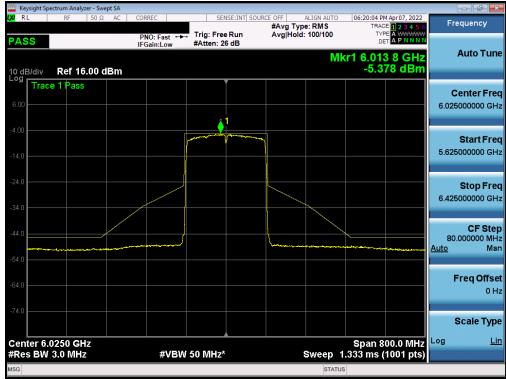
Plot 7-219. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 5) - Ch. 39)



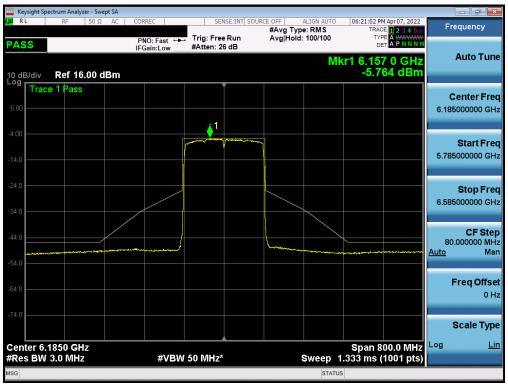
Plot 7-220. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 5) - Ch. 87)

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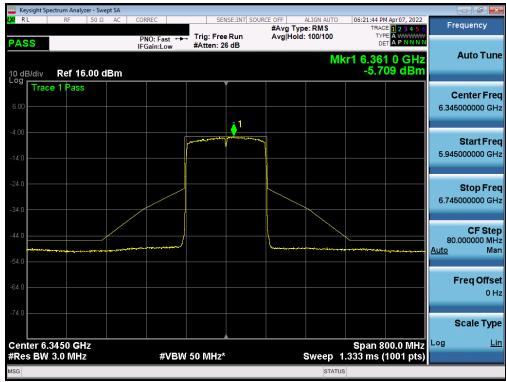
Plot 7-221. In-Band Emission Plot Measurement MIMO ANT1 (160MHz 802.11ax (UNII Band 5) - Ch. 15)



Plot 7-222. In-Band Emission Plot Measurement MIMO ANT1 (160MHz 802.11ax (UNII Band 5) - Ch. 47)

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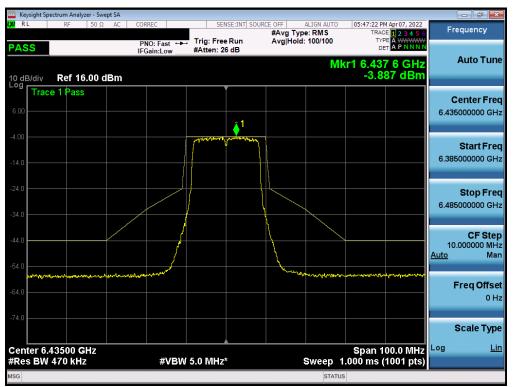


Plot 7-223. In-Band Emission Plot Measurement MIMO ANT1 (160MHz 802.11ax (UNII Band 5) - Ch. 79)

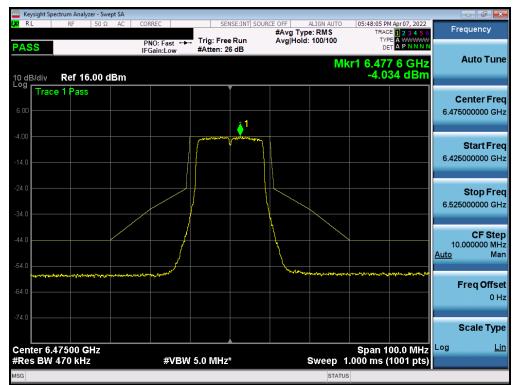
FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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# MIMO Antenna-1 In-Band Emission Plot Measurement - (UNII Band 6)



Plot 7-224. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 6) - Ch. 97)

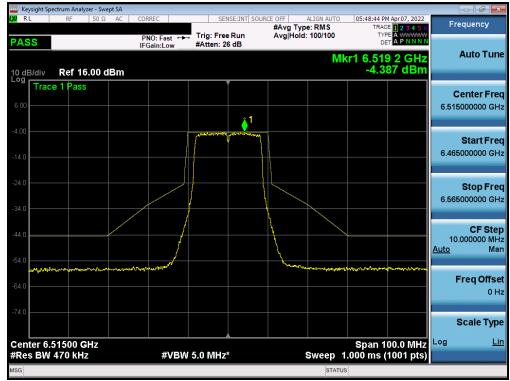


Plot 7-225. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 6) - Ch. 105)

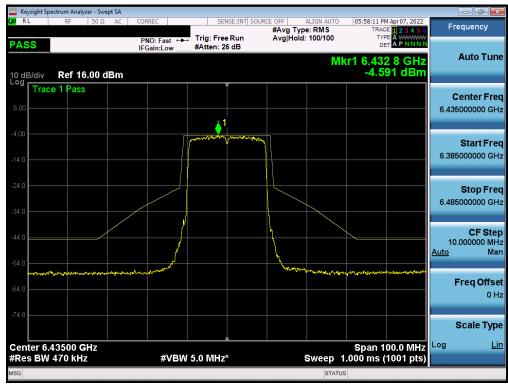
FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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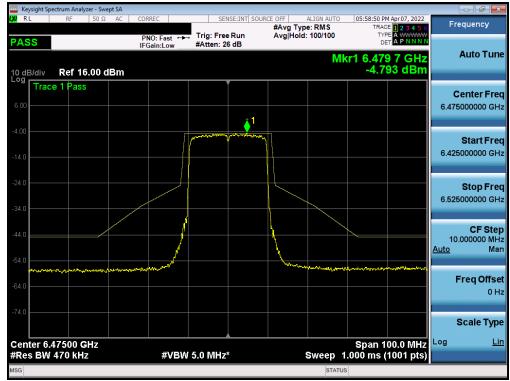
Plot 7-226. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 6) - Ch. 113)



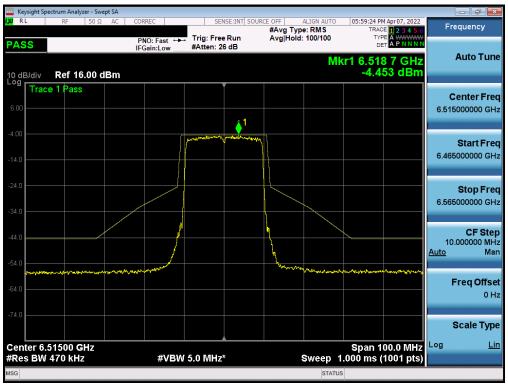
Plot 7-227. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 6) - Ch. 97)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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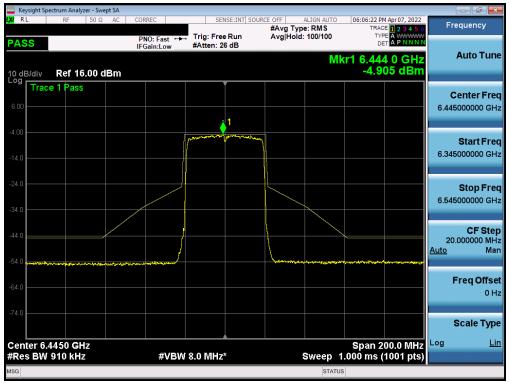
Plot 7-228. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 6) - Ch. 105)



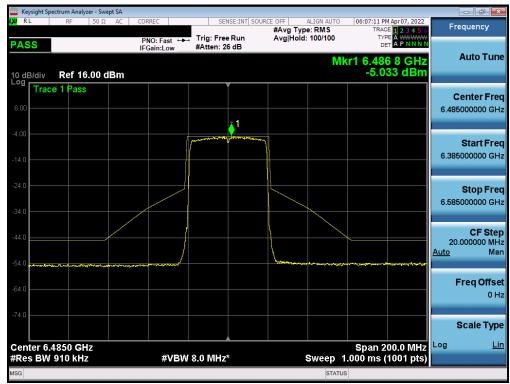
Plot 7-229. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 6) - Ch. 113)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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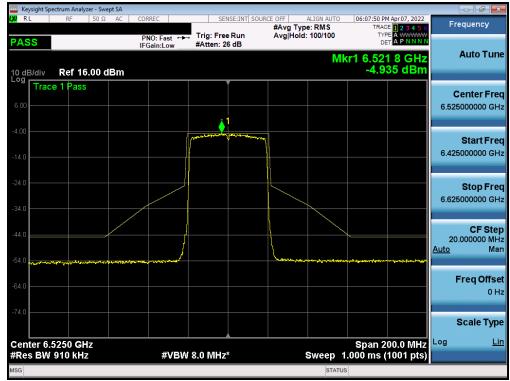
Plot 7-230. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 6) - Ch. 99)



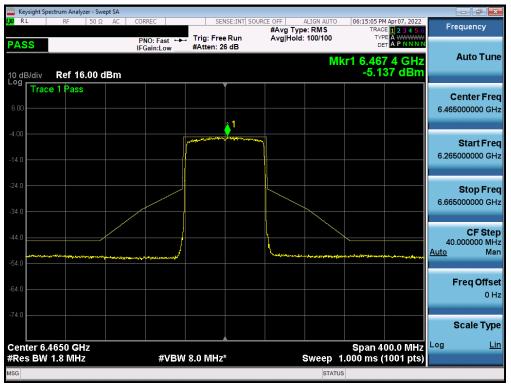
Plot 7-231. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 6) - Ch. 107)

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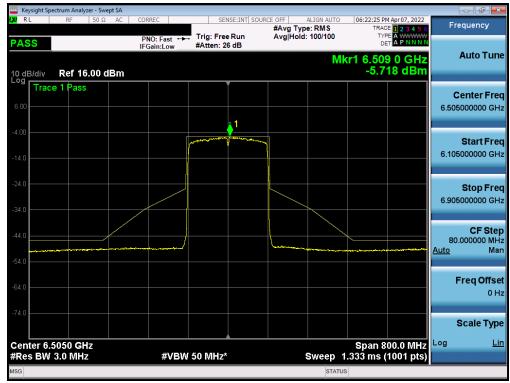
Plot 7-232. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 6) - Ch. 115)



Plot 7-233. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 6) - Ch. 103)

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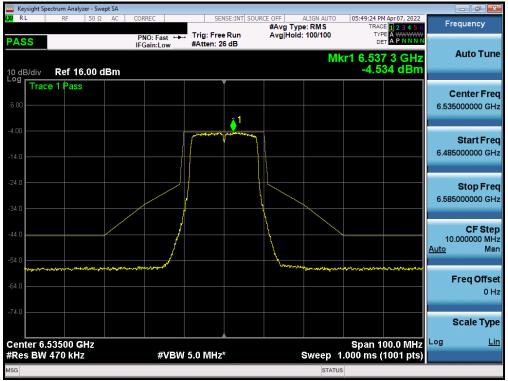


Plot 7-234. In-Band Emission Plot Measurement MIMO ANT1 (160MHz 802.11ax (UNII Band 6) - Ch. 111)

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# MIMO Antenna-1 In-Band Emission Plot Measurement - (UNII Band 7)



Plot 7-235. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 7) - Ch. 117)



Plot 7-236. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 7) - Ch. 149)

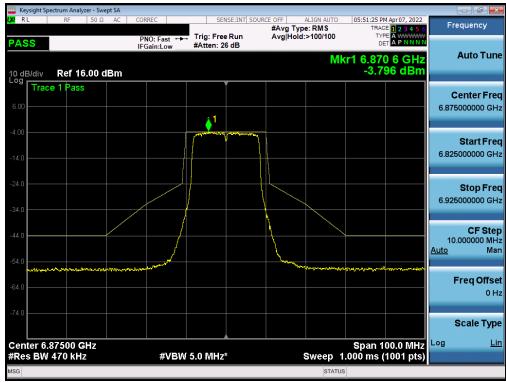
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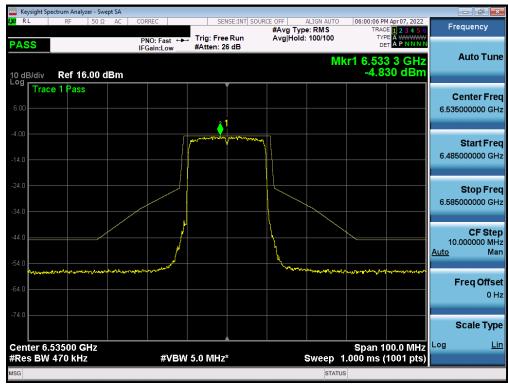
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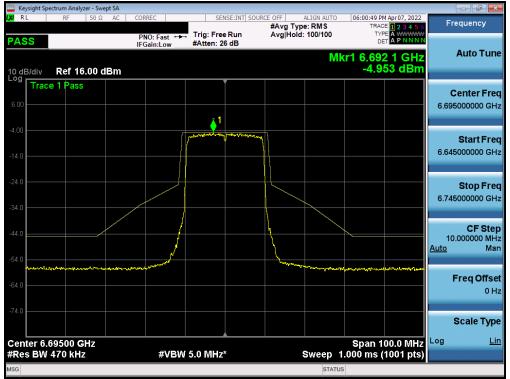
Plot 7-237. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 7) - Ch. 185)



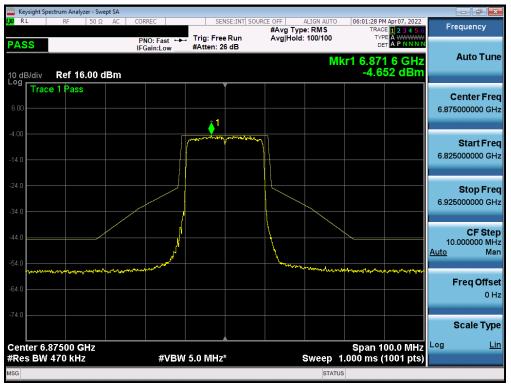
Plot 7-238. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 7) - Ch. 117)

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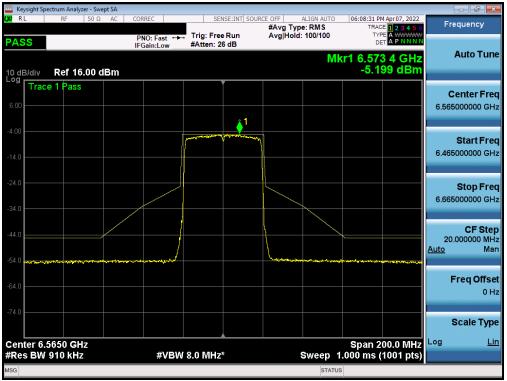
Plot 7-239. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 7) - Ch. 149)



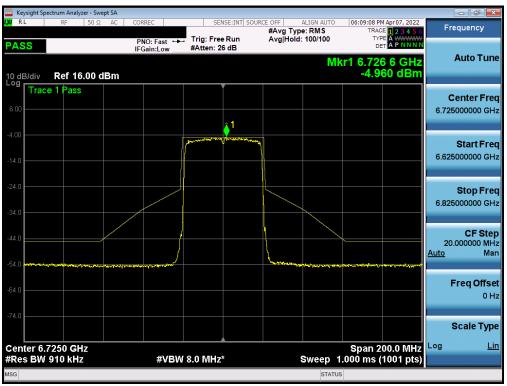
Plot 7-240. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 7) - Ch. 185)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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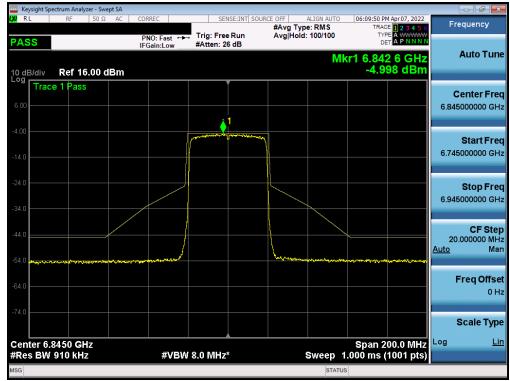
Plot 7-241. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 7) - Ch. 123)



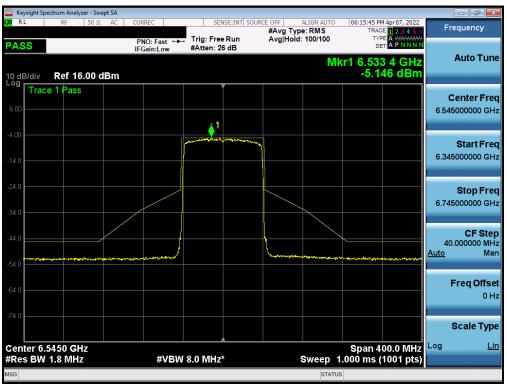
Plot 7-242. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 7) - Ch. 155)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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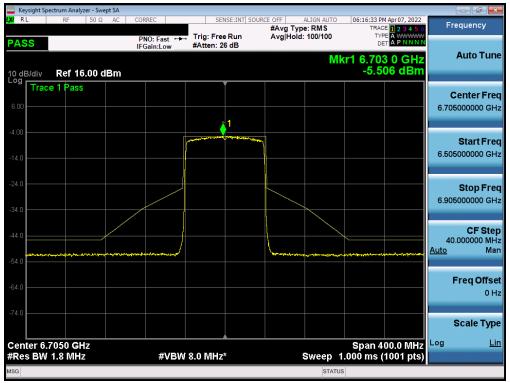
Plot 7-243. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 7) - Ch. 179)



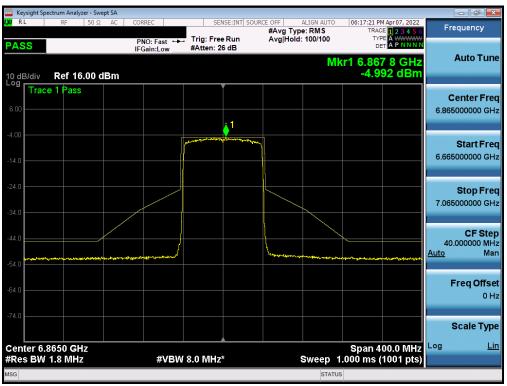
Plot 7-244. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 7) - Ch. 119)

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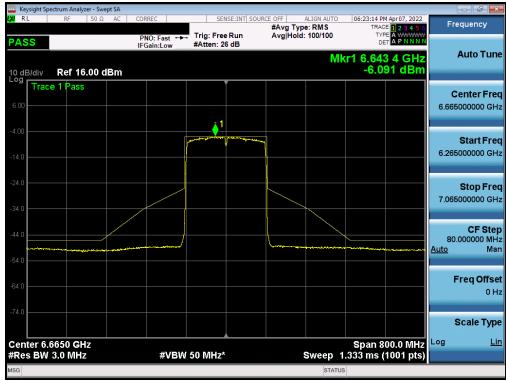
Plot 7-245. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 7) - Ch. 151)



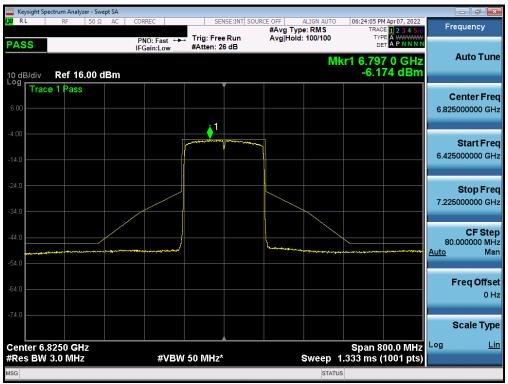
Plot 7-246. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 7) - Ch. 183)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-247. In-Band Emission Plot Measurement MIMO ANT1 (160MHz 802.11ax (UNII Band 7) - Ch. 143)

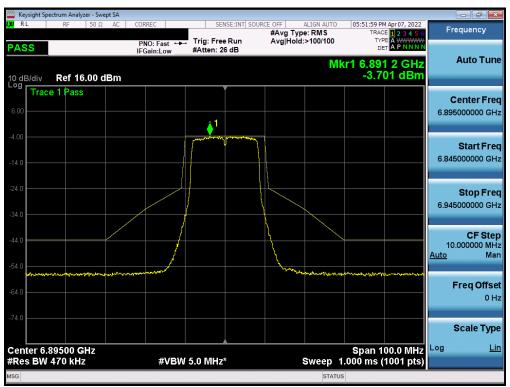


Plot 7-248. In-Band Emission Plot Measurement MIMO ANT1 (160MHz 802.11ax (UNII Band 7) - Ch. 175)

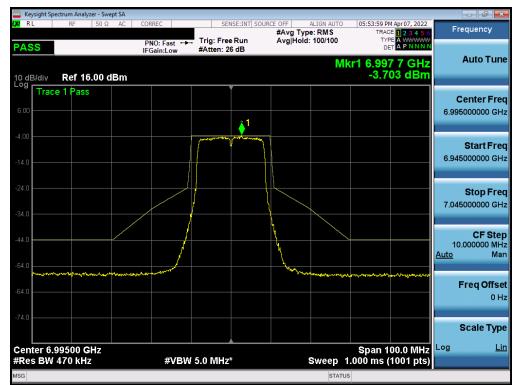
FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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# MIMO Antenna-1 In-Band Emission Plot Measurement - (UNII Band 8)



Plot 7-249. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 8) - Ch. 189)



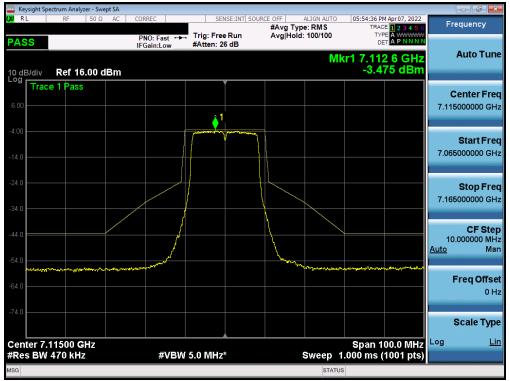
Plot 7-250. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 8) - Ch. 209)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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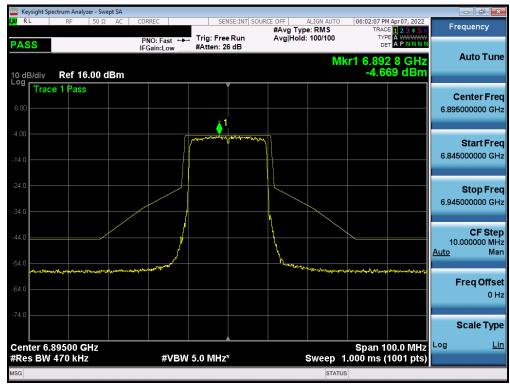
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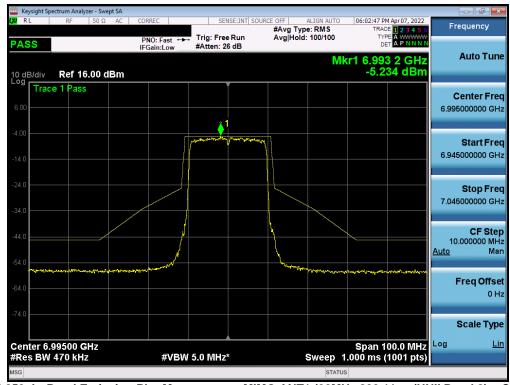
Plot 7-251. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 8) - Ch. 233)



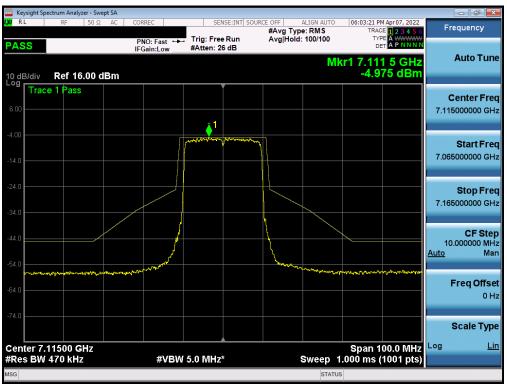
Plot 7-252. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 8) - Ch. 189)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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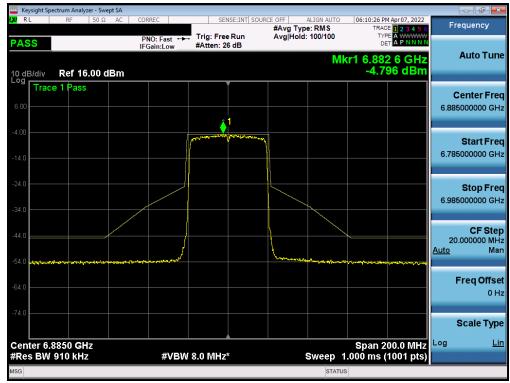
Plot 7-253. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 8) - Ch. 209)



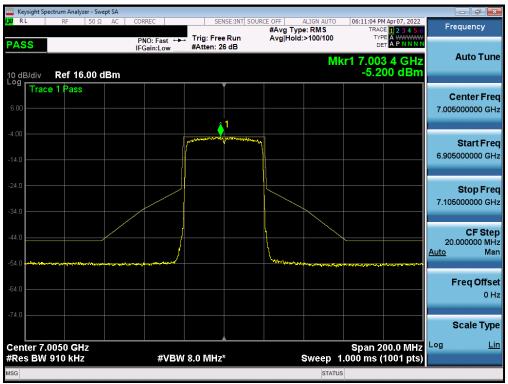
Plot 7-254. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 8) - Ch. 233)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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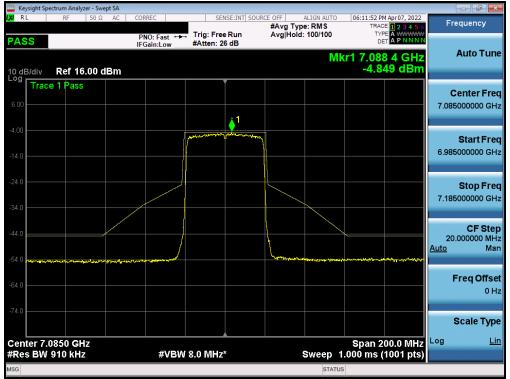
Plot 7-255. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 8) - Ch. 187)



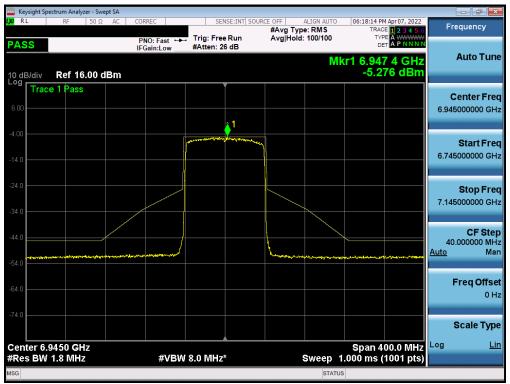
Plot 7-256. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 8) - Ch. 211)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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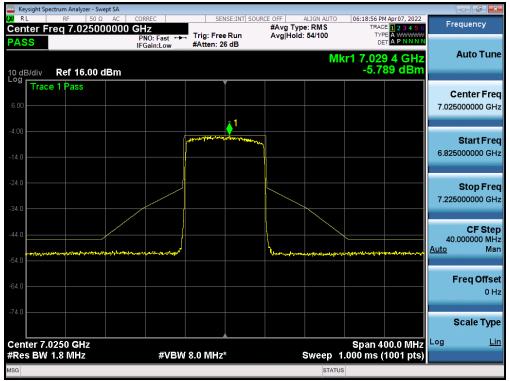
Plot 7-257. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 8) - Ch. 227)



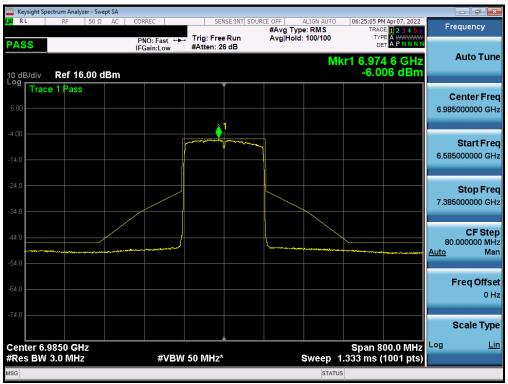
Plot 7-258. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 8) - Ch. 199)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-259. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 8) - Ch. 215)

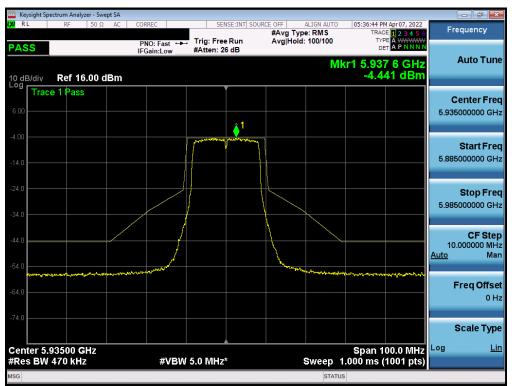


Plot 7-260. In-Band Emission Plot Measurement MIMO ANT1 (160MHz 802.11ax (UNII Band 8) - Ch. 207)

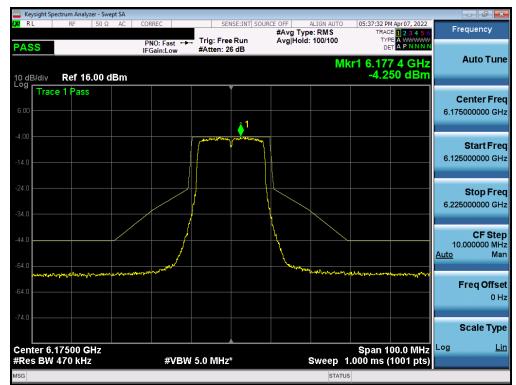
FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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# MIMO Antenna-2 In-Band Emission Plot Measurement - (UNII Band 5)



Plot 7-261. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 5) - Ch. 2)



Plot 7-262. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 5) - Ch. 45)

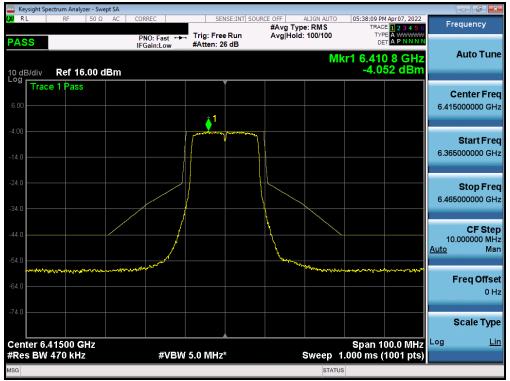
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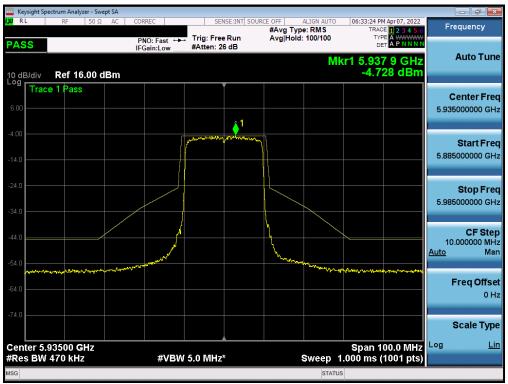
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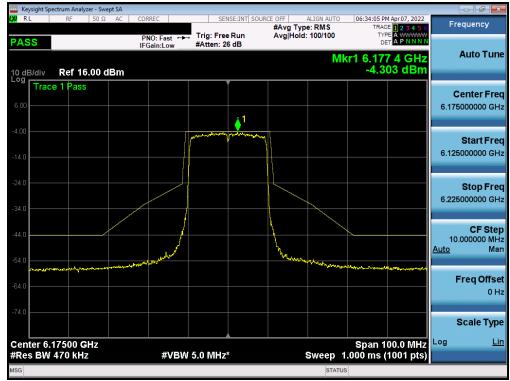
Plot 7-263. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 5) - Ch. 93)



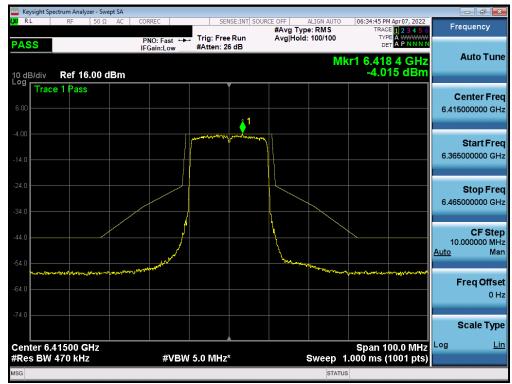
Plot 7-264. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 5) - Ch. 1)

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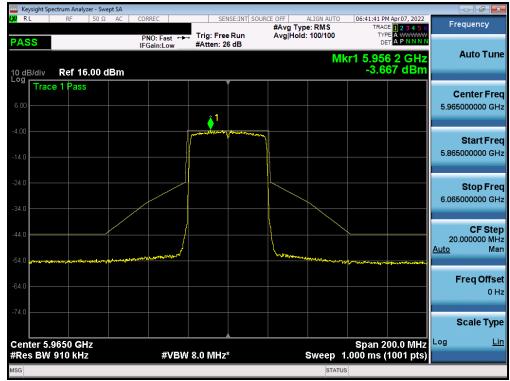
Plot 7-265. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 5) - Ch. 45)



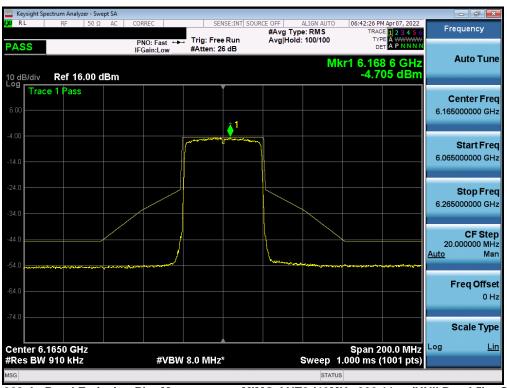
Plot 7-266. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 5) - Ch. 93)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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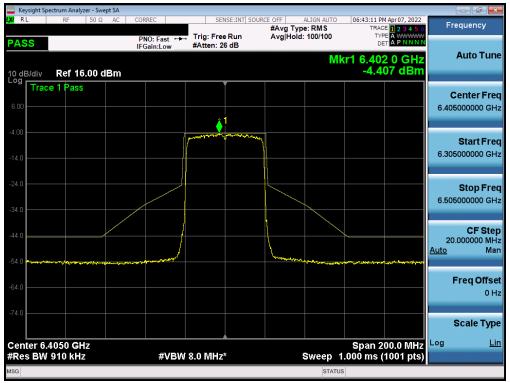
Plot 7-267. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 5) - Ch. 3)



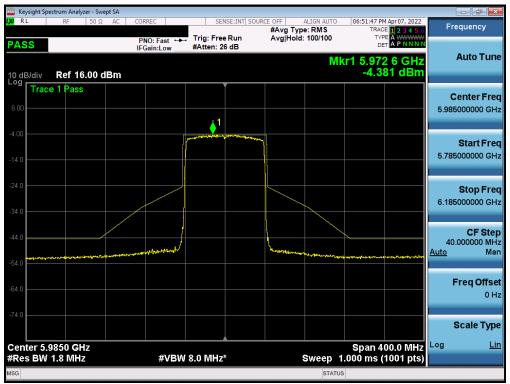
Plot 7-268. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 5) - Ch. 43)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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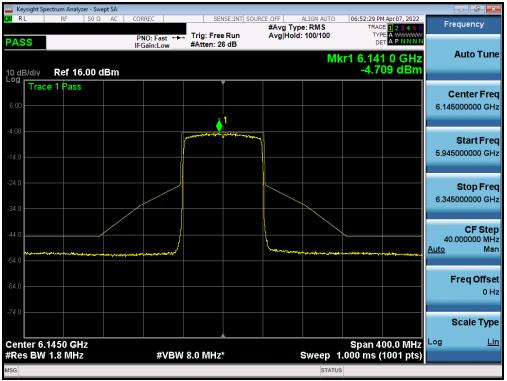
Plot 7-269. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 5) - Ch. 91)



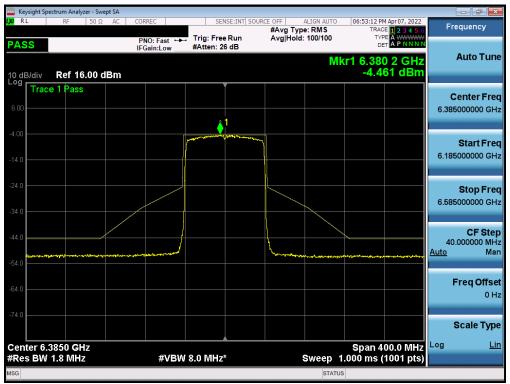
Plot 7-270. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 5) - Ch. 7)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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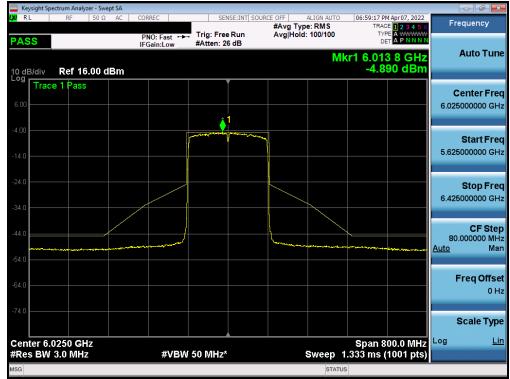
Plot 7-271. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 5) - Ch. 39)



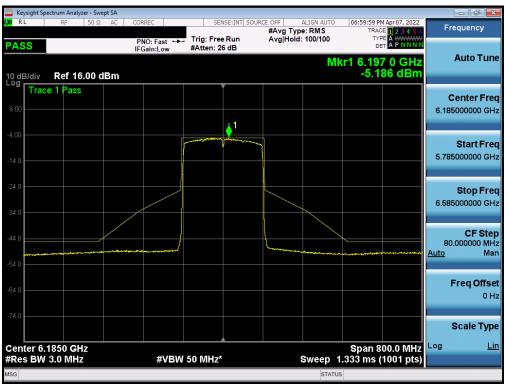
Plot 7-272. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 5) - Ch. 87)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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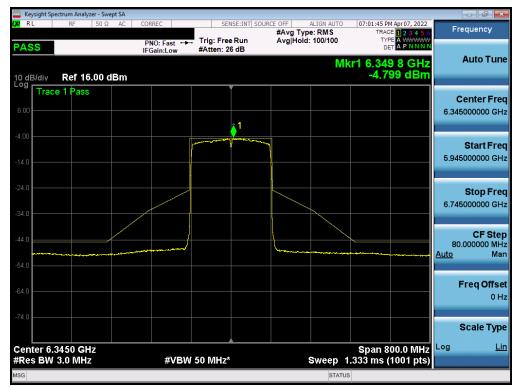
Plot 7-273. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 5) - Ch. 15)



Plot 7-274. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 5) - Ch. 47)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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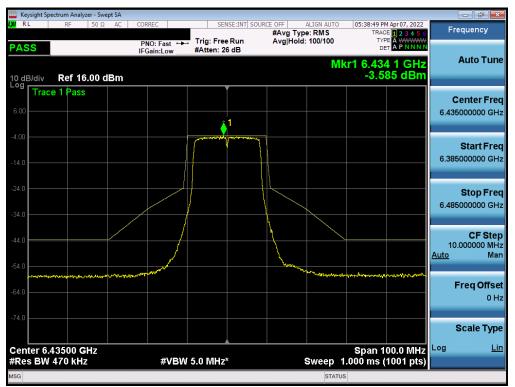


Plot 7-275. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 5) - Ch. 79)

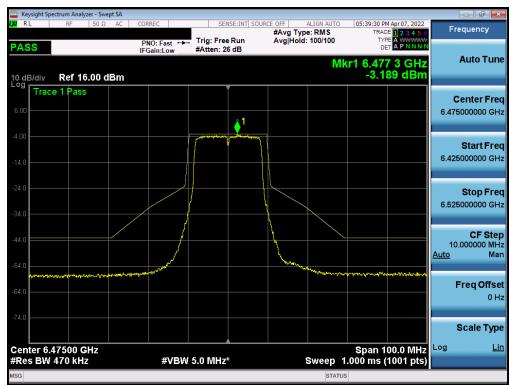
FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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# MIMO Antenna-2 In-Band Emission Plot Measurement - (UNII Band 6)



Plot 7-276. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 6) - Ch. 97)

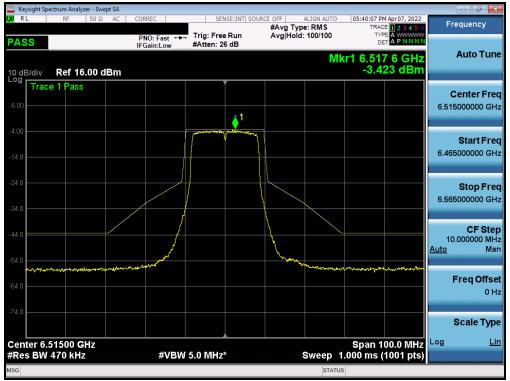


Plot 7-277. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 6) - Ch. 105)

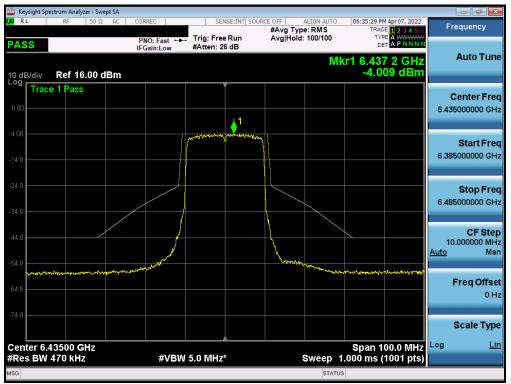
FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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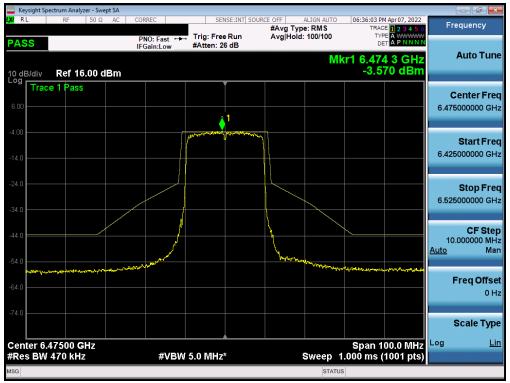
Plot 7-278. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 6) - Ch. 113)



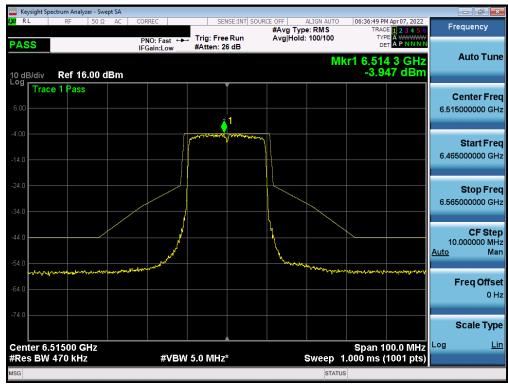
Plot 7-279. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 6) - Ch. 97)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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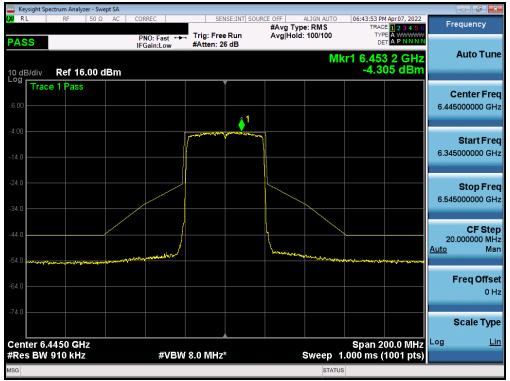
Plot 7-280. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 6) - Ch. 105)



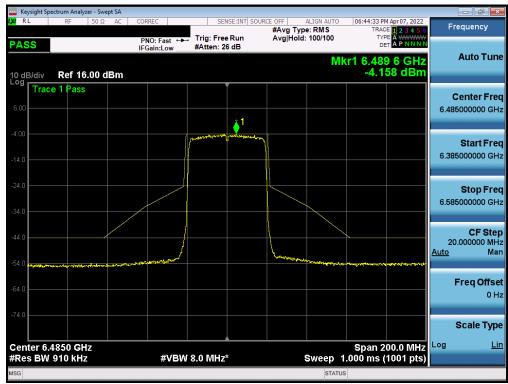
Plot 7-281. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 6) - Ch. 113)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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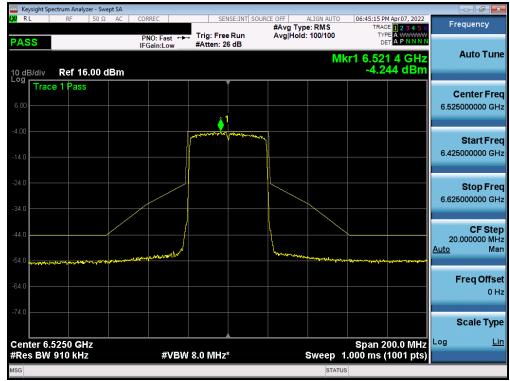
Plot 7-282. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 6) - Ch. 99)



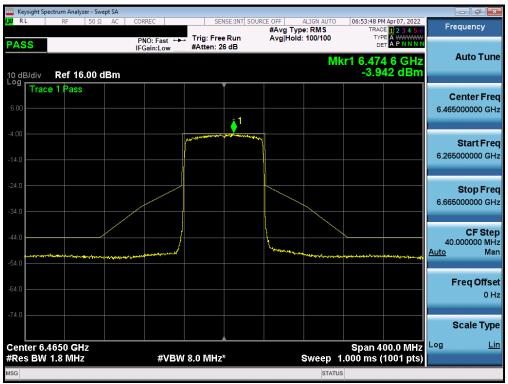
Plot 7-283. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 6) - Ch. 107)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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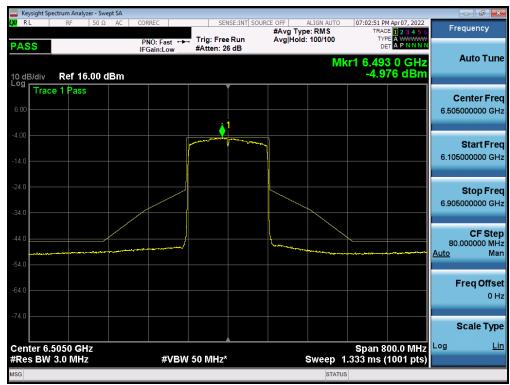
Plot 7-284. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 6) - Ch. 115)



Plot 7-285. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 6) - Ch. 103)

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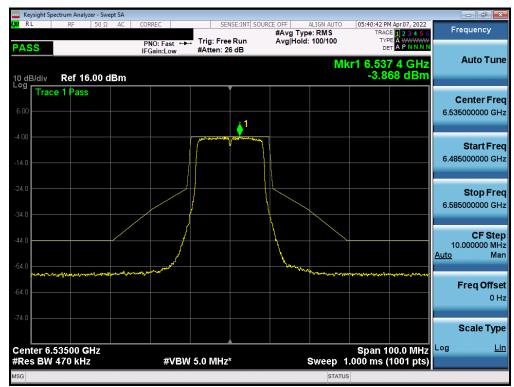


Plot 7-286. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 6) - Ch. 111)

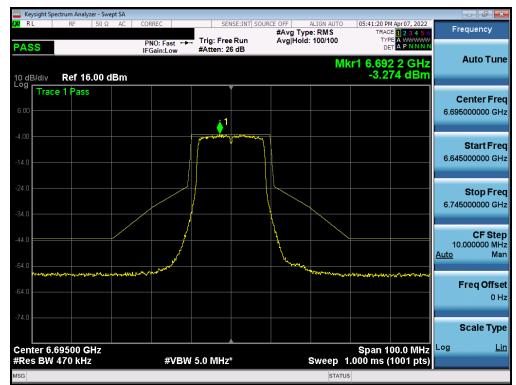
FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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## MIMO Antenna-2 In-Band Emission Plot Measurement - (UNII Band 7)



Plot 7-287. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 7) - Ch. 117)

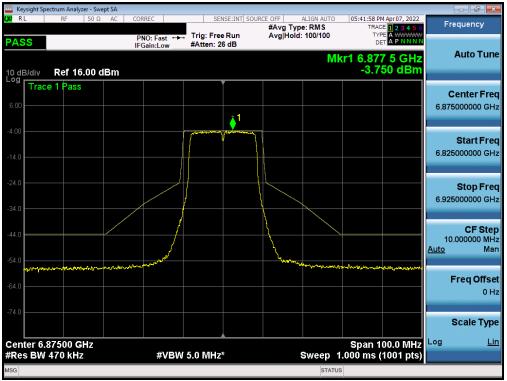


Plot 7-288. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 7) - Ch. 149)

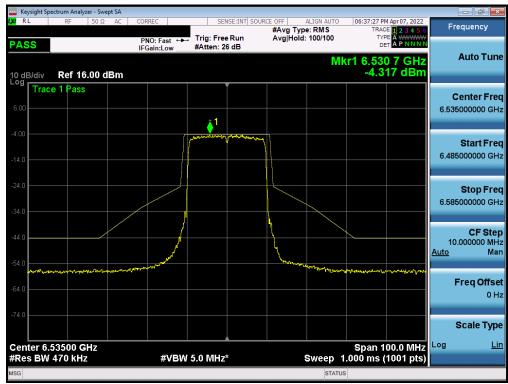
FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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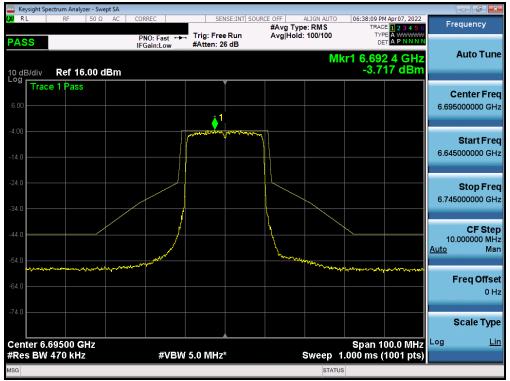
Plot 7-289. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 7) - Ch. 185)



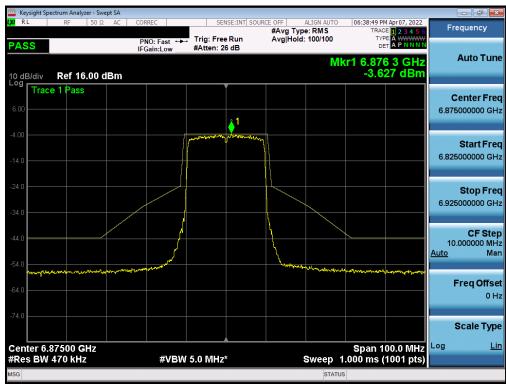
Plot 7-290. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 7) - Ch. 117)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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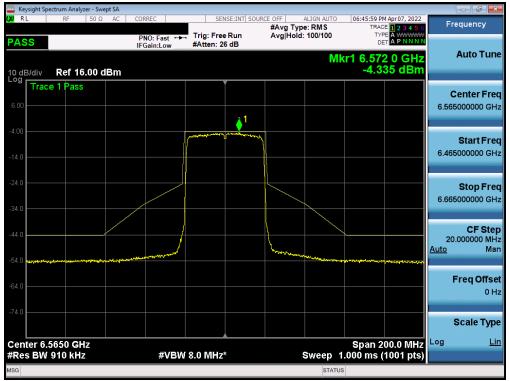
Plot 7-291. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 7) - Ch. 149)



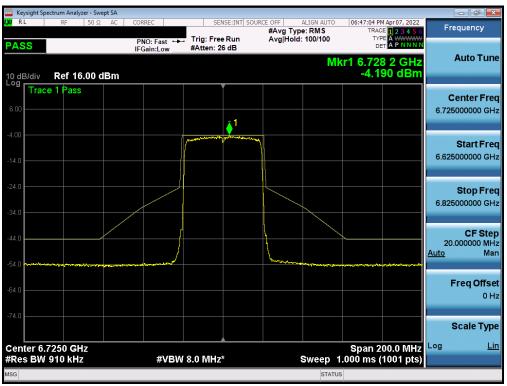
Plot 7-292. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 7) - Ch. 185)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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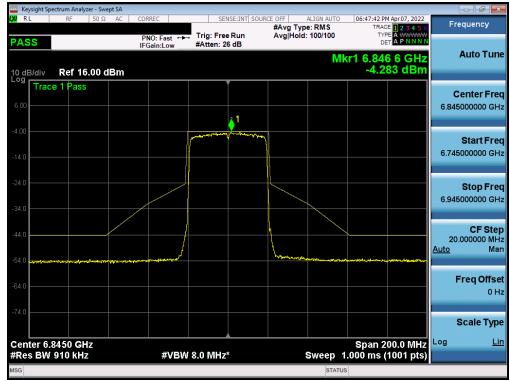
Plot 7-293. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 7) - Ch. 123)



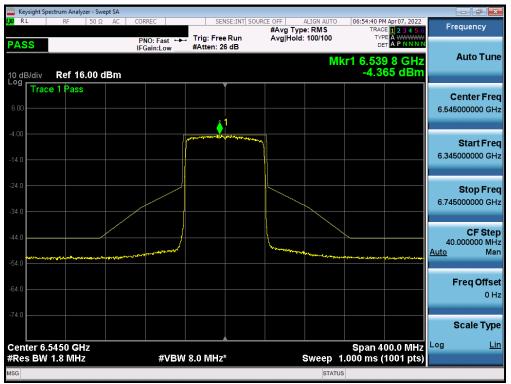
Plot 7-294. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 7) - Ch. 155)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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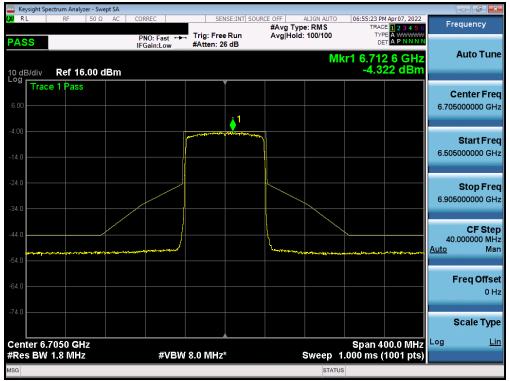
Plot 7-295. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 7) - Ch. 179)



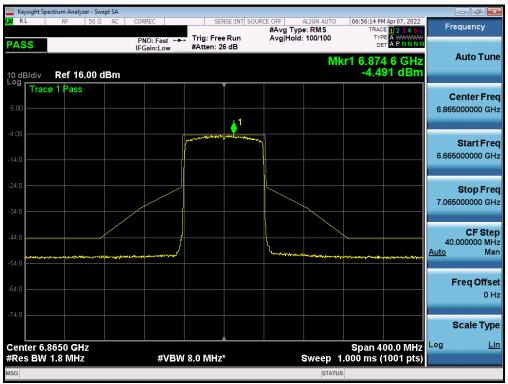
Plot 7-296. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 7) - Ch. 119)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-297. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 7) - Ch. 151)



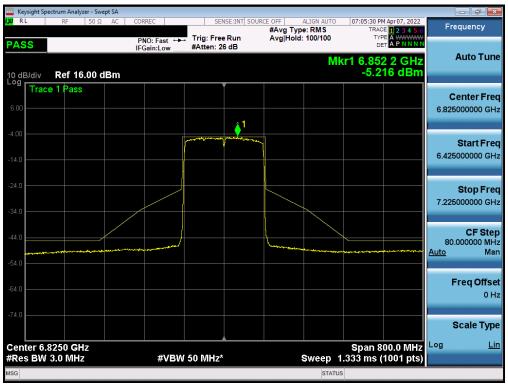
Plot 7-298. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 7) - Ch. 183)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-299. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 7) - Ch. 143)

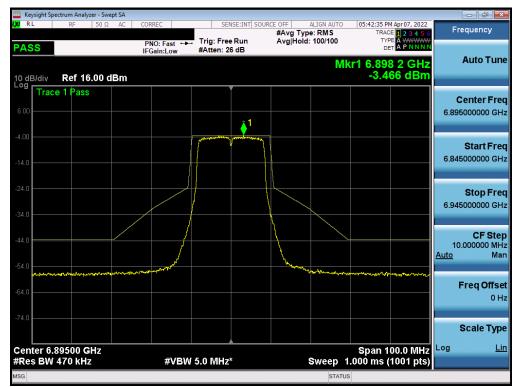


Plot 7-300. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 7) - Ch. 175)

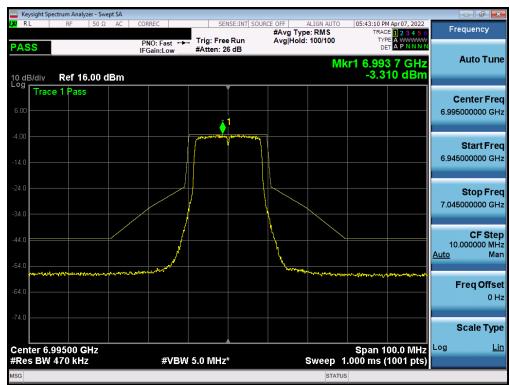
FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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## MIMO Antenna-2 In-Band Emission Plot Measurement - (UNII Band 8)



Plot 7-301. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 8) - Ch. 189)



Plot 7-302. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 8) - Ch. 209)

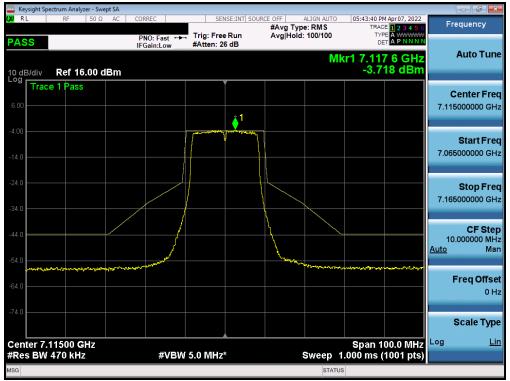
FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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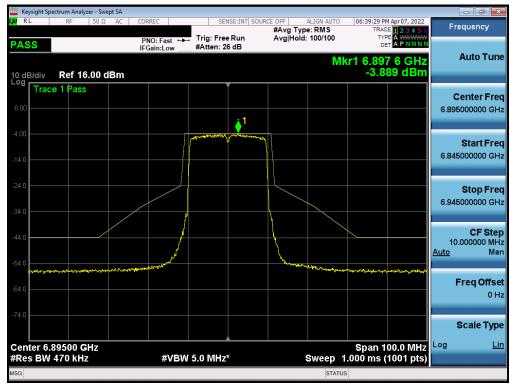
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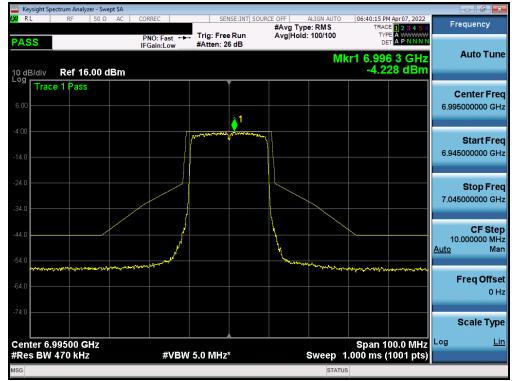
Plot 7-303. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 8) - Ch. 233)



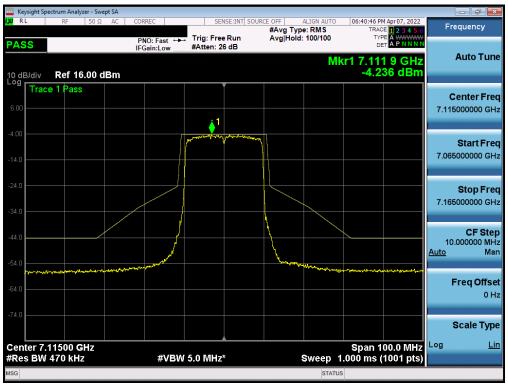
Plot 7-304. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 8) - Ch. 189)

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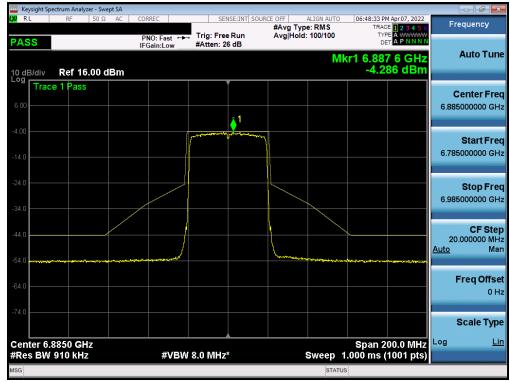
Plot 7-305. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 8) - Ch. 209)



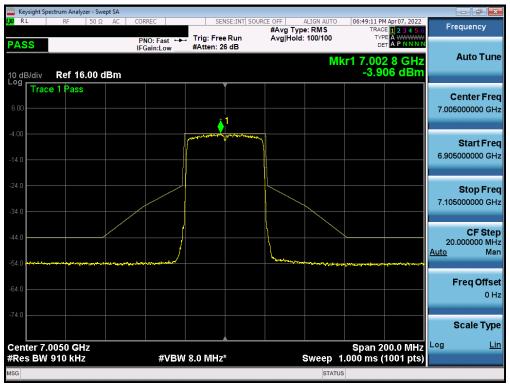
Plot 7-306. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 8) - Ch. 233)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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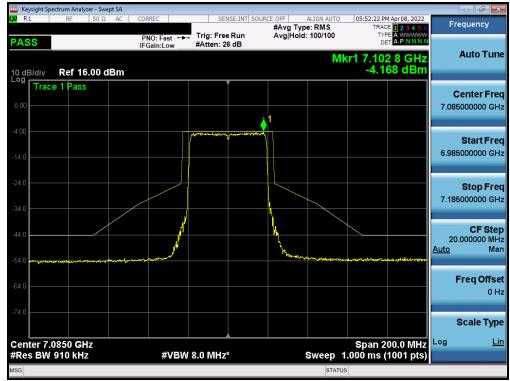
Plot 7-307. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 8) - Ch. 187)



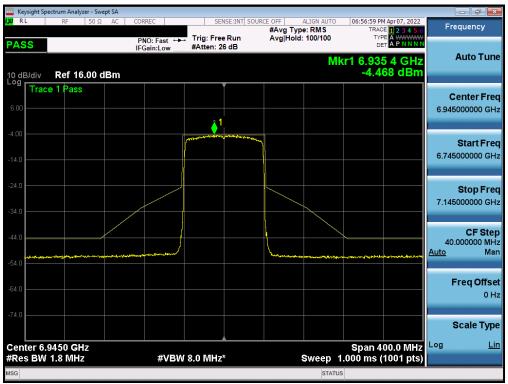
Plot 7-308. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 8) - Ch. 211)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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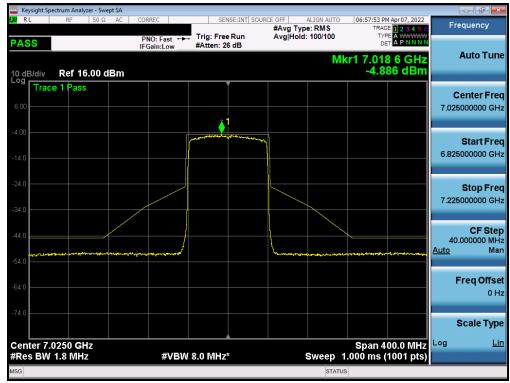
Plot 7-309. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 8) - Ch. 227)



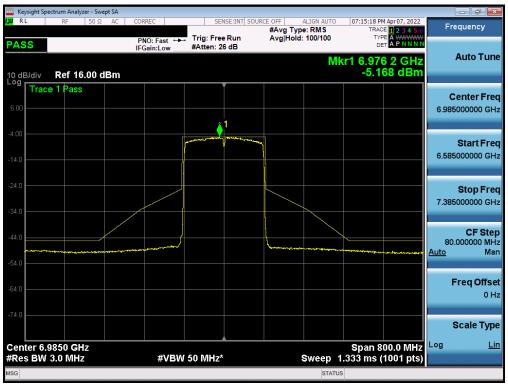
Plot 7-310. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 8) - Ch. 199)

FCC ID: A3LSMF936JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager		
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Plot 7-311. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 8) - Ch. 215)



Plot 7-312. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 8) - Ch. 207)

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# 7.6 Contention Based Protocol – 802.11a/ax §15.407(d)(6)

#### **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 as long as 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**

ANSI C63.10-2013 – Section 12.3.2.2 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 EEUT 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, as shown in Figure 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 to determine 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.

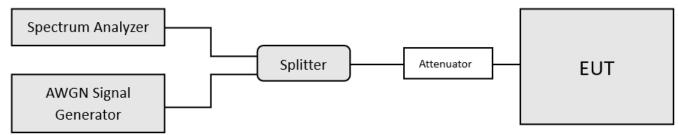


Figure 7-5. Contention-based protocol test setup, conducted method

#### **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 7-313). The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission (see Plot 7-329), marker indicates the point at which the AWGN signal is introduced.
- 2. 15 trials were ran in order to assure that at least 90% of certainty was met.
- 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 transmiting.

Detection Level = Injected AWGN Power (dBm) - Antenna Gain (dBi) + 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]	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
	53	6215	20	6215	-73.30	-3.42	-69.88	-62.0	-7.88
UNII				6110	-73.50	-3.42	-70.08	-62.0	-8.08
Band 5	47	6185	160	6185	-73.20	-3.42	-69.78	-62.0	-7.78
				6260	-72.20	-3.42	-68.78	-62.0	-6.78
	101	6455	20	6455	-73.15	-10.50	-62.65	-62.0	-0.65
UNII				6430	-73.10	-10.50	-62.60	-62.0	-0.60
Band 6	111	6505	160	6505	-73.20	-10.50	-62.70	-62.0	-0.70
				6580	-73.72	-10.50	-63.22	-62.0	-1.22
	149	6695	20	6695	-74.10	-8.64	-65.46	-62.0	-3.46
UNII				6750	-71.40	-8.64	-62.76	-62.0	-0.76
Band 7	175	6825	160	6825	-74.27	-8.64	-65.63	-62.0	-3.63
				6900	-74.45	-8.64	-65.81	-62.0	-3.81
	197	6935	20	6935	-75.30	-11.46	-63.84	-62.0	-1.84
UNII				6910	-74.96	-11.46	-63.50	-62.0	-1.50
Band 8	207	6985	160	6985	-76.37	-11.46	-64.91	-62.0	-2.91
				7060	-73.90	-11.46	-62.44	-62.0	-0.44

Table 7-8. Contention Based Protocol – Incumbent Detection Results

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					EUT	Transmission S	tatus			
		Champal From	CI I DVA	la suas la saste	Adjusted AWGN Power (dBm)					
Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Normal	Minimal	Ceased			
	53	6215	20	6215	-81.88	-72.88	-69.88			
UNII				6110	-82.08	-73.08	-70.08			
Band 5	47	6185	160	6185	-81.78	-72.78	-69.78			
				6260	-80.78	-71.78	-68.78			
	101	6455	20	6455	-74.65	-65.65	-62.65			
UNII				6430	-74.60	-65.60	-62.60			
Band 6	111	6505	160	6505	-74.70	-65.70	-62.70			
				6580	-75.22	-66.22	-63.22			
	149	6695	20	6695	-77.46	-68.46	-65.46			
UNII				6750	-74.76	-65.76	-62.76			
Band 7	175	6825	160	6825	-77.63	-68.63	-65.63			
				6900	-77.81	-68.81	-65.81			
	197	6935	20	6935	-75.84	-66.84	-63.84			
UNII				6910	-75.50	-66.50	-63.50			
Band 8	207	6985	160	6985	-76.91	-67.91	-64.91			
				7060	-74.44	-65.44	-62.44			

Table 7-9. Contention Based Protocol - Detection Results - All Tx Cases

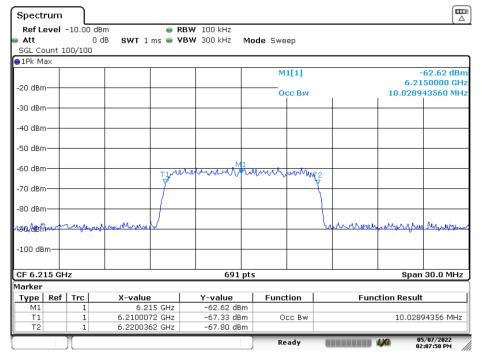
							CBP Detect	ion (1 = De	tection, Bla	ank = No D	etection)		,													
Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Detection Rate (%)							
	53	6215	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
UNII				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
Band 5	47	6185	160	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	100							
	101	6455	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
UNII				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
Band 6	111 650	111	6505	160	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	100
	149	6695	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
UNII				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
Band 7	Band 7 175 6825	175	6825 160	6825 160	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	100				
	197	6935	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
UNII	UNII			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
Band 8	207	6985	160	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	100							

Table 7-10. Contention Based Protocol – Incumbent Detection Trial Results

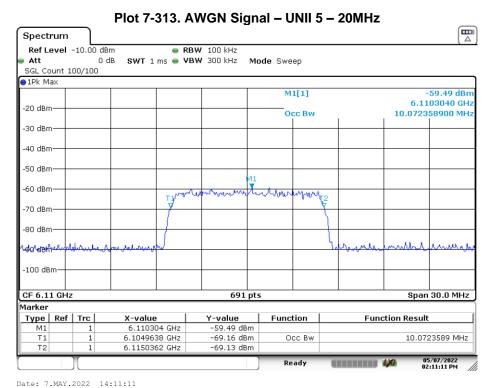
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### **AWGN Plots**



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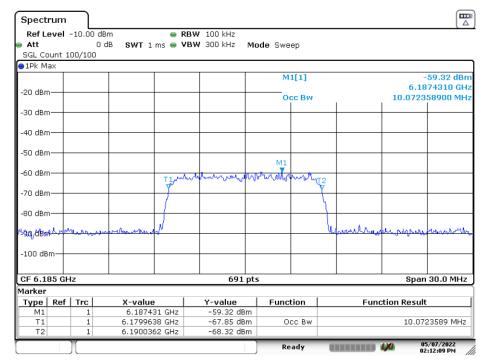
Plot 7-314. AWGN Signal - UNII 5 - 160MHz - Low

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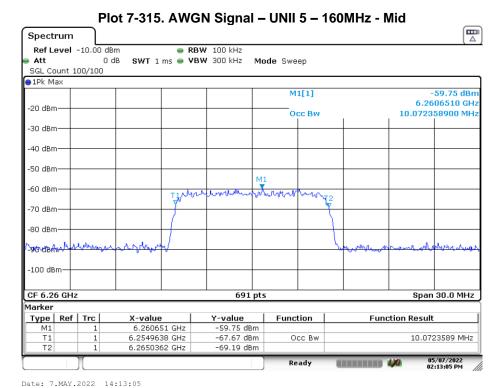
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Date: 7.MAY.2022 14:12:09



Plot 7-316. AWGN Signal - UNII 5 - 160MHz - High

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