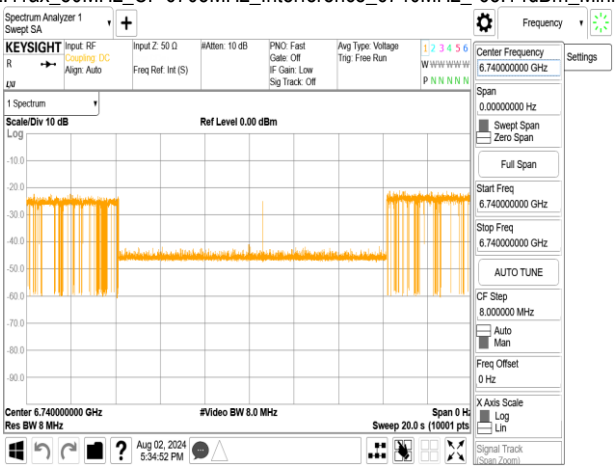
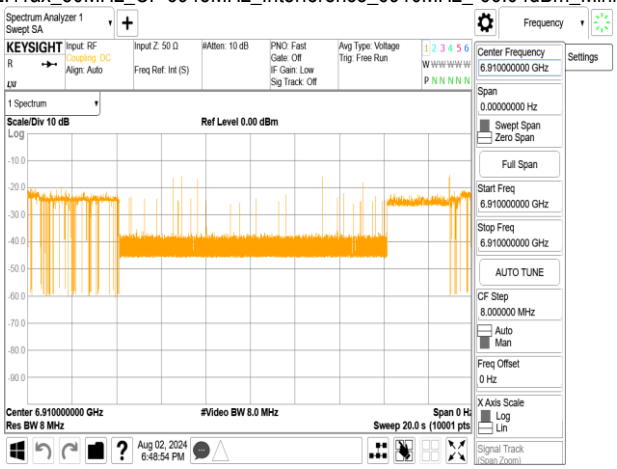
802.11ax_80MHz_CF 6705MHz_Interference_6740MHz_-65.14dBm_Minimal



802.11ax_80MHz_CF 6945MHz_Interference_6910MHz_-66.04dBm_Minimal



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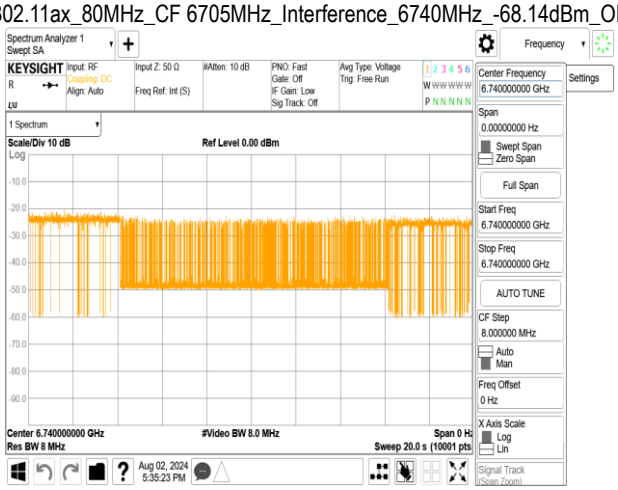

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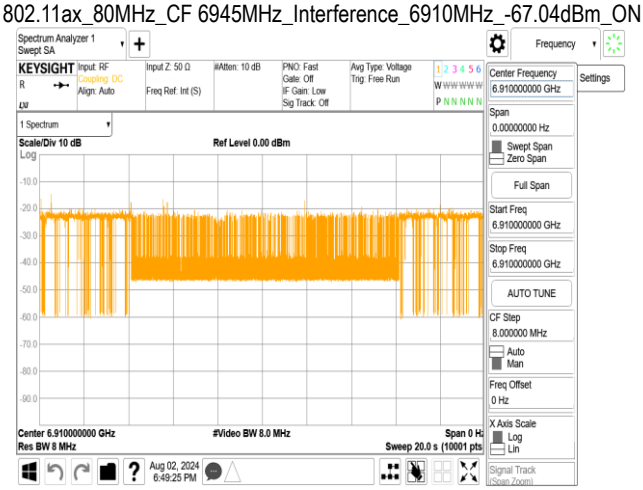
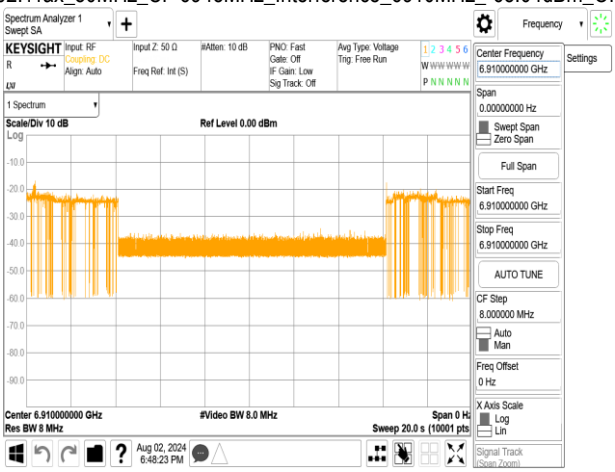
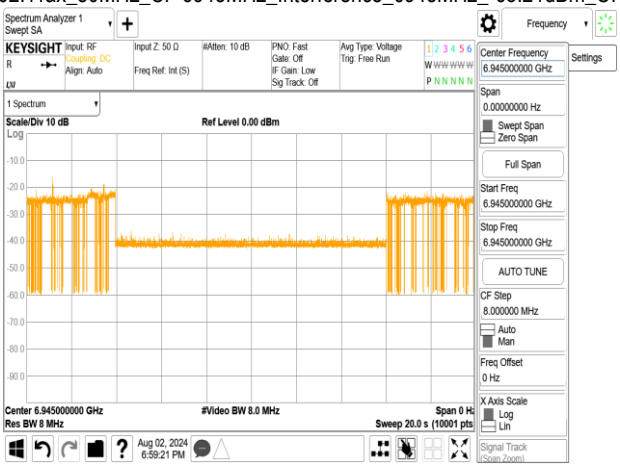


802.11ax_80MHz_CF 6945MHz_Interference_6910MHz_-65.04dBm_OFF



802.11ax_80MHz_CF 6945MHz_Interference_6945MHz_-63.21dBm_OFF



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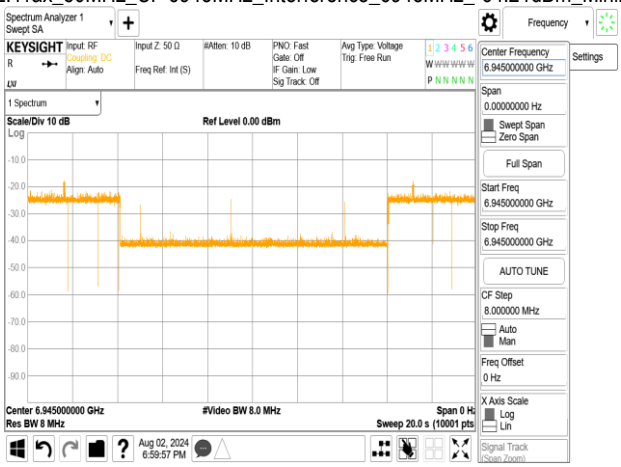
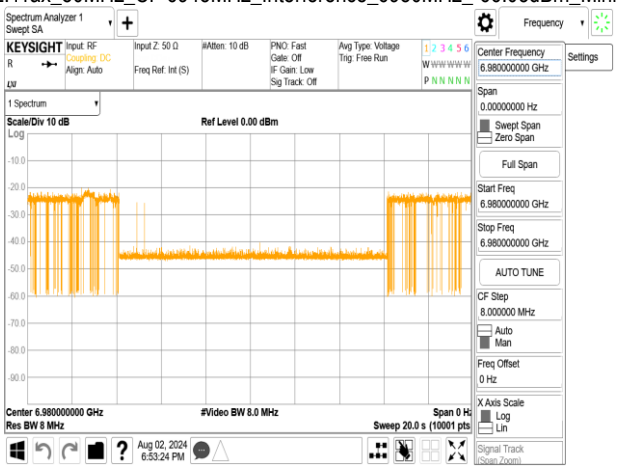
802.11ax_80MHz_CF 6945MHz_Interference_6945MHz_-64.21dBm_Minimal



802.11ax_80MHz_CF 6945MHz_Interference_6980MHz_-66.03dBm_Minimal



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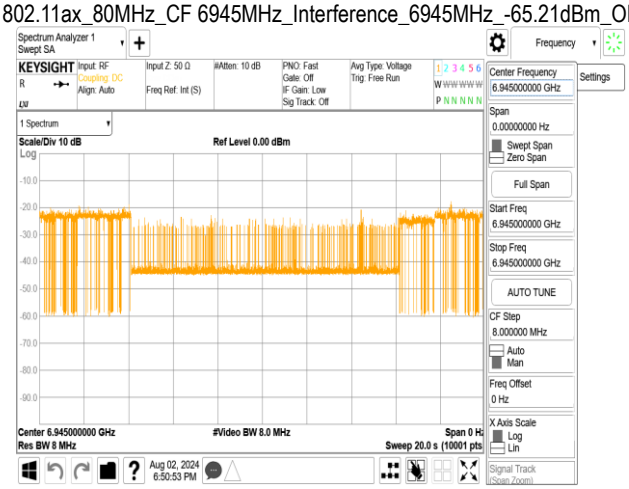

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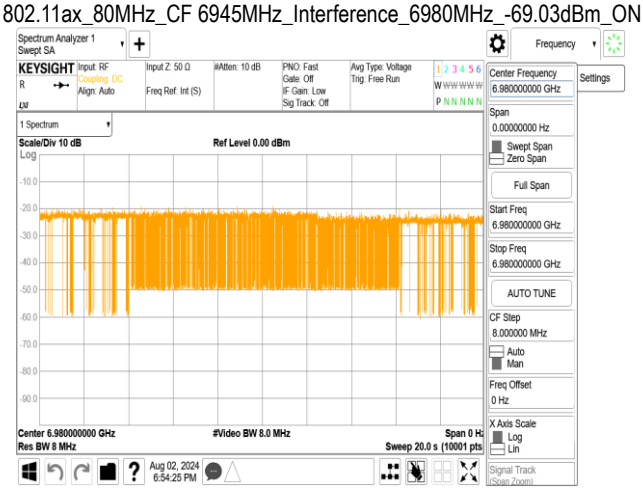

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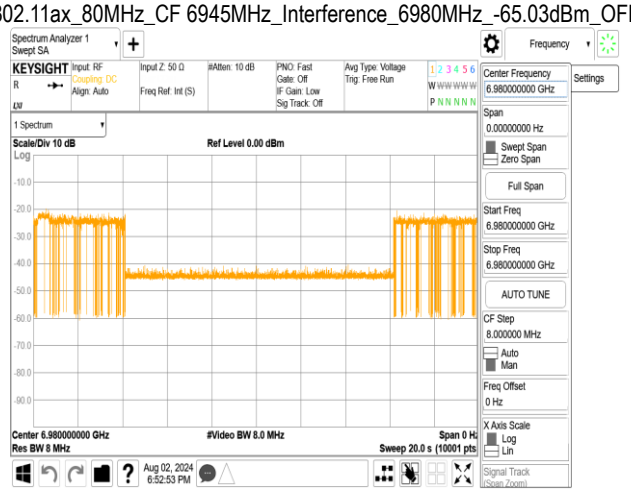

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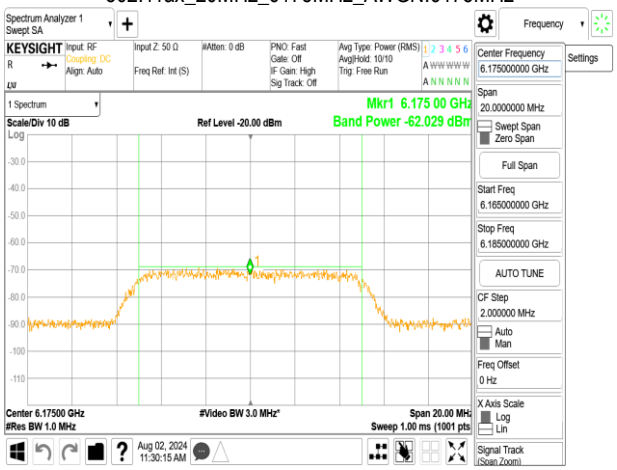
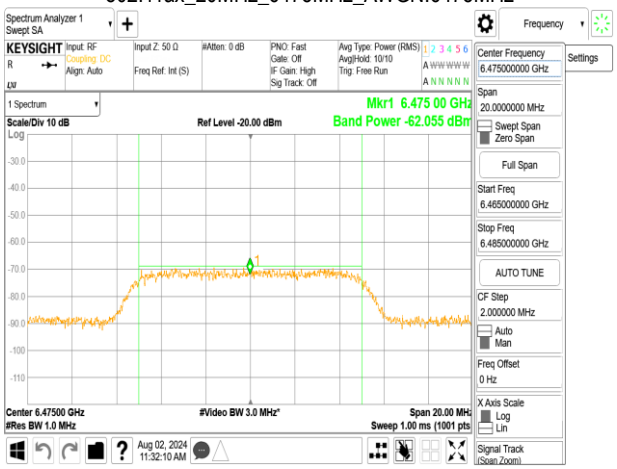
13.4.3 Incumbent_signal

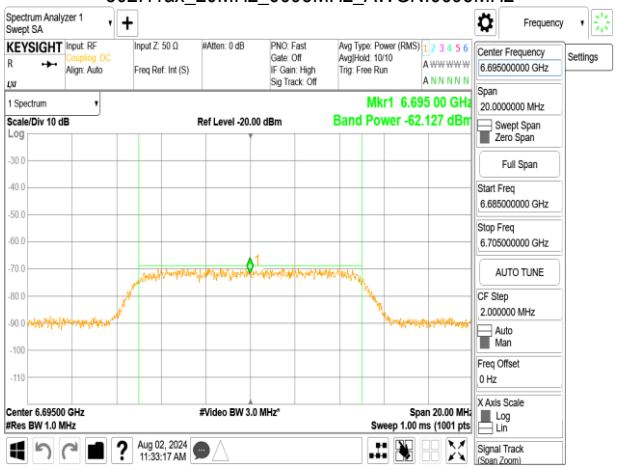
802.11ax_20MHz_6175MHz_AWGN:6175MHz



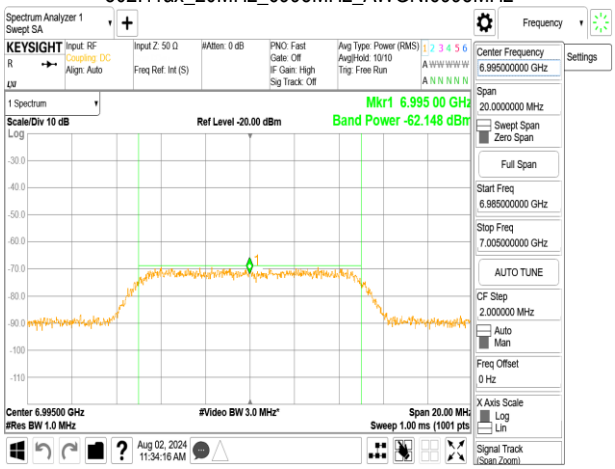
802.11ax_20MHz_6475MHz_AWGN:6475MHz



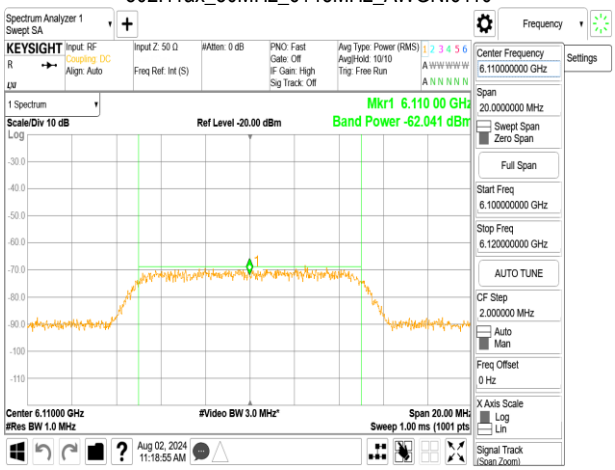
802.11ax_20MHz_6695MHz_AWGN:6695MHz



802.11ax_20MHz_6995MHz_AWGN:6995MHz



802.11ax_80MHz_6145MHz_AWGN:6110



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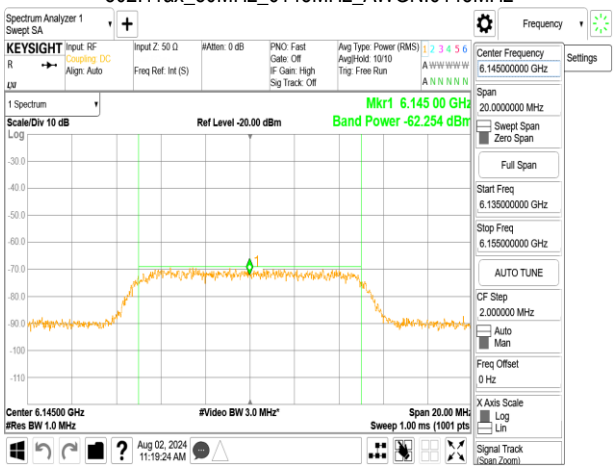

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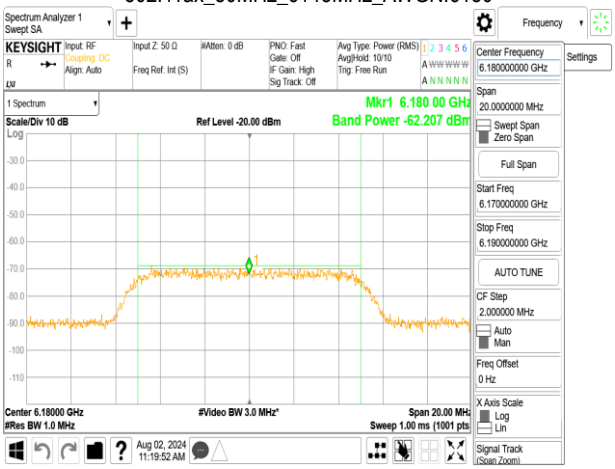
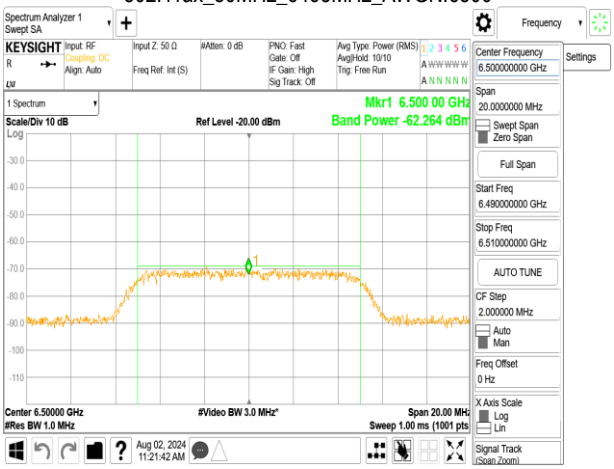
802.11ax_80MHz_6145MHz_AWGN:6180



802.11ax_80MHz_6465MHz_AWGN:6500



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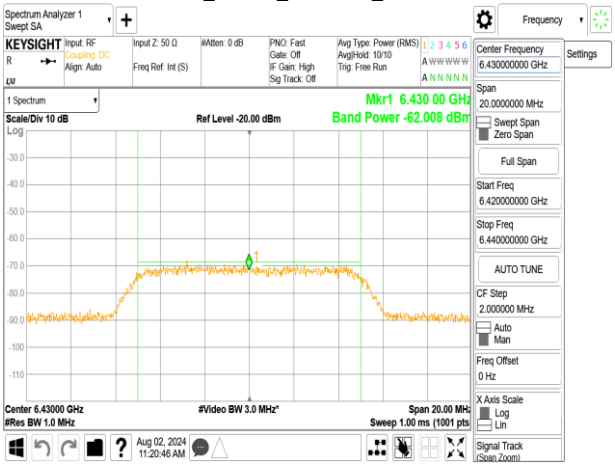
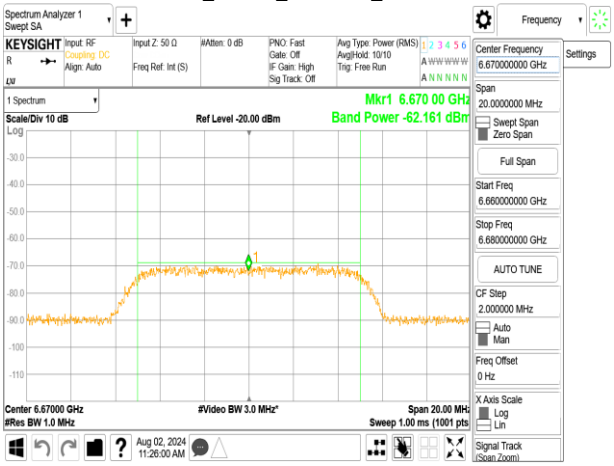
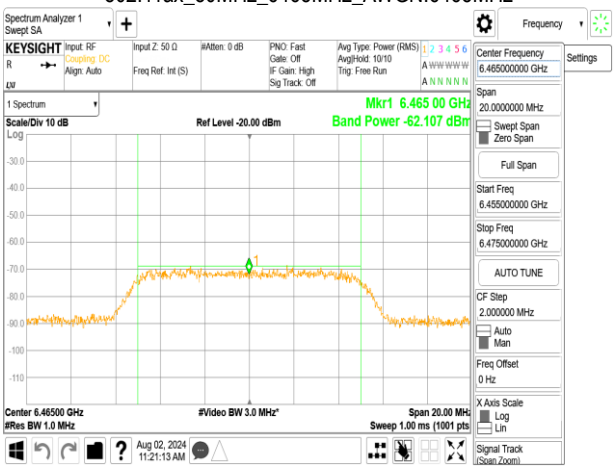


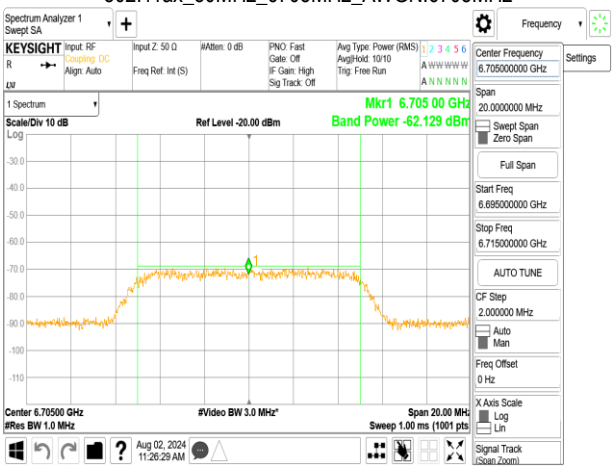
802.11ax_80MHz_6705MHz_AWGN:6670



802.11ax_80MHz_6465MHz_AWGN:6465MHz



802.11ax_80MHz_6705MHz_AWGN:6705MHz



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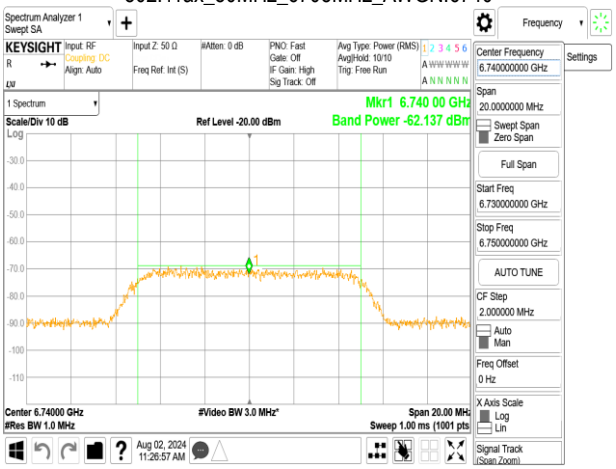
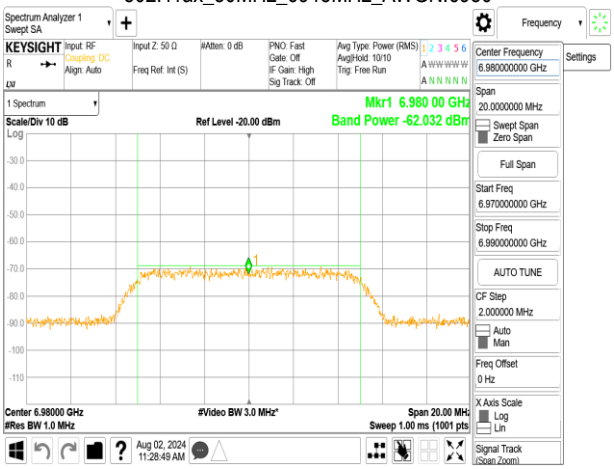
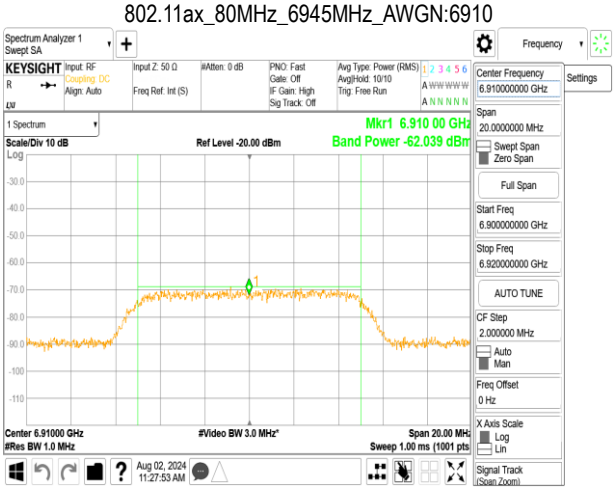
802.11ax_80MHz_6705MHz_AWGN:6740



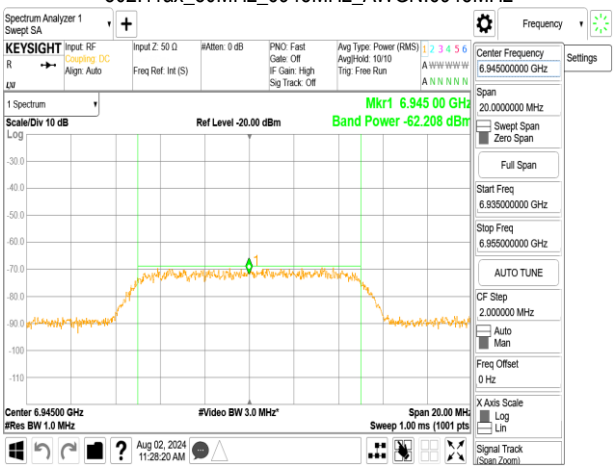
802.11ax_80MHz_6945MHz_AWGN:6980



802.11ax_80MHz_6945MHz_AWGN:6910



802.11ax_80MHz_6945MHz_AWGN:6945MHz



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14 DEMONSTRATION OF PROPER POWER ADJUSTMENT BASED ON ASSOCIATED AP

14.1 Standard Applicable

A client device may connect to a Standard Power AP with a maximum power level of 30 dBm EIRP. A client may also connect to a Low Power indoor AP, but the power level is limited to a maximum of 24 dBm EIRP. If a client has the flexibility to connect to both APs, verification is needed to show that it can distinguish between the two configurations, and then control the power levels accordingly.

14.2 Measurement Procedure

1. Connect equipment as shown in Figure 6 below.
2. Adjust Atten 2 to Std Power AP so as to facilitate error free communication with the Client (Atten 1 should be set to High on the RF path to the Low Power AP).
3. Configure the Client and APs so that they associate and start sending data (stream data). It is important that the client is configured to transmit at its highest power level. Initially, because the attenuation on Atten 1 is set high, the Client will only associate with the Std Power AP.
4. Verify transmission between Client and Std Power AP. Additional attenuators may be required to protect measurement equipment. Measure the Client RF power using any of the methods in C63.10 for NII devices. Note – if the client RF power has been certified to never operate above 24 dBm EIRP then this test is not necessary.
5. Gradually increase Atten 2 while at the same time decreasing Atten 1. This simulates the Client moving from outdoors to indoors. At some level of attenuation the Client should associate with the Low Power indor AP. Verify transmission between Client and Low Power AP.
6. Measure the RF power of the Client device using the same method as in step 4. Verify the power is no more than 24 dBm EIRP.

Note – measuring Client RF power reliably from a directional coupler measurement port may be tricky. Due to coupling, some energy from the AP will show up on the measurement port. Signal isolation techniques on the measurement analyzer will need to be used.

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14.3 Test Setup

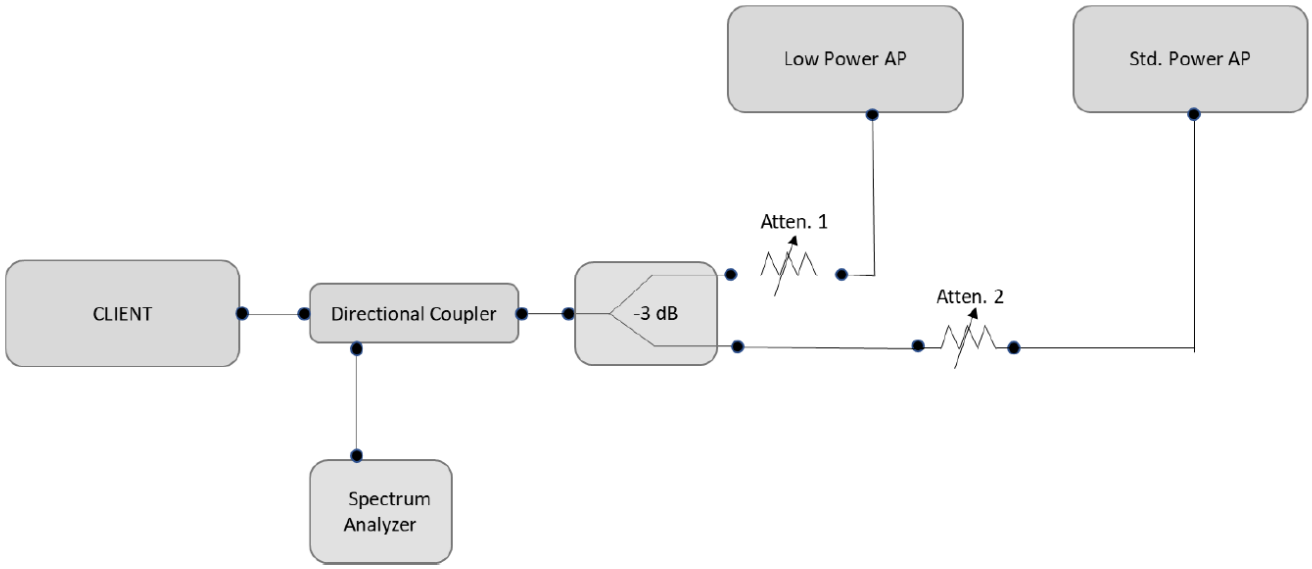

Figure 6. Test setup for conducted testing

14.4 Measurement Result

N/A, Device only assocoates with indoor AP

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15 TRANSMISSION IN THE ABSENCE OF DATA

15.1 Standard Applicable

According to §15.407(c)
The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

15.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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16 ANTENNA REQUIREMENT

16.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

16.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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