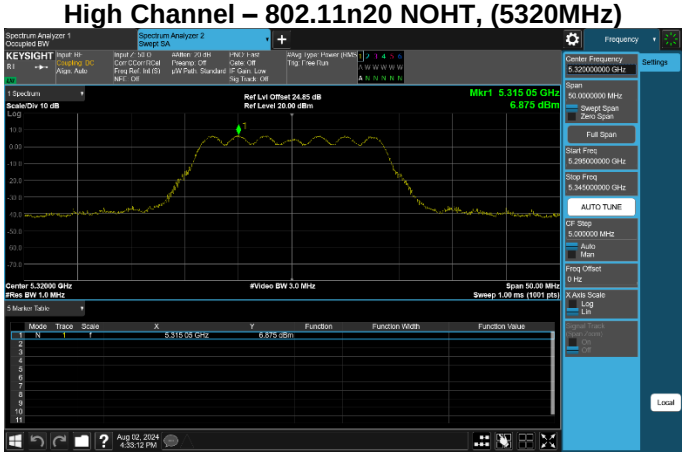
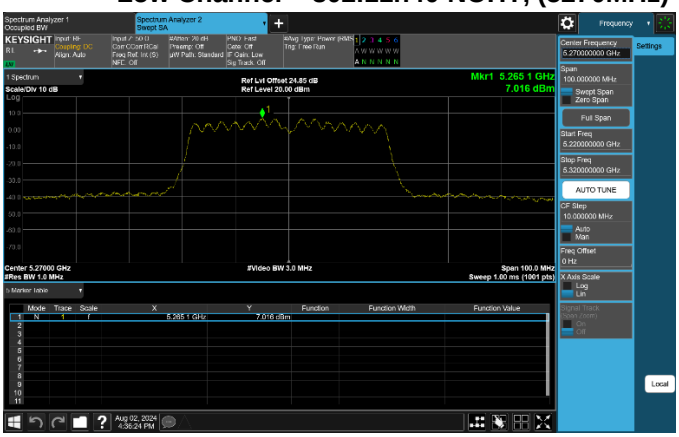
Low Channel – 802.11n20 NOHT, (5260MHz)

Mid Channel – 802.11n20 NOHT, (5280MHz)

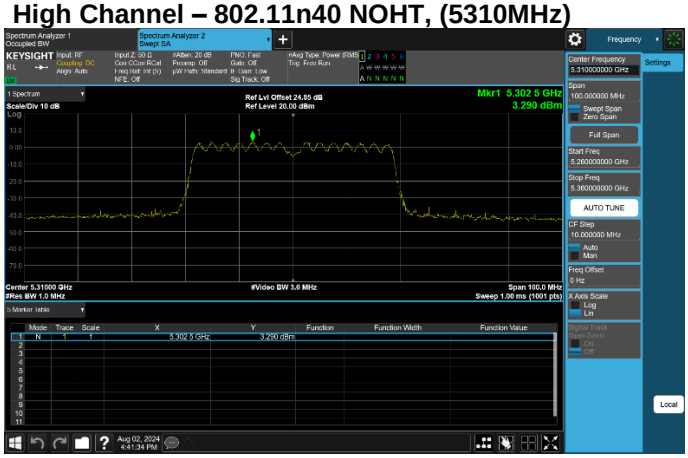
High Channel – 802.11n20 NOHT, (5320MHz)



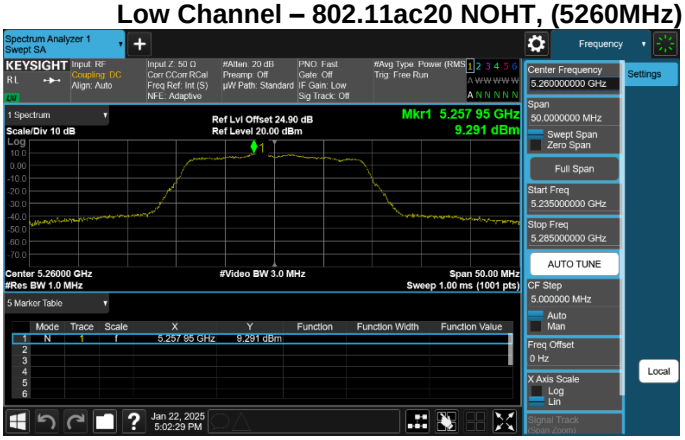
Low Channel – 802.11n40 NOHT, (5270MHz)



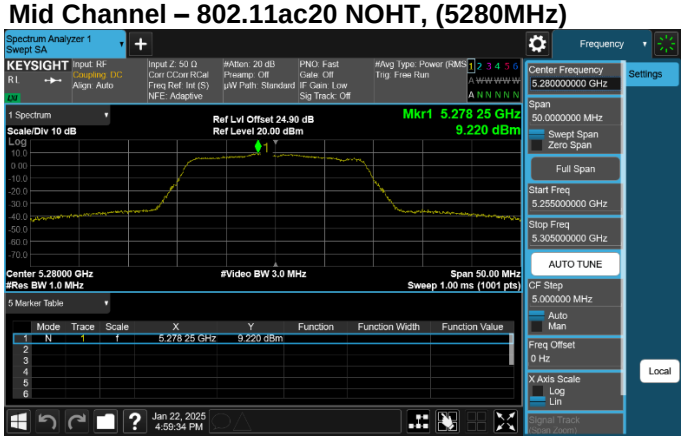
High Channel – 802.11n40 NOHT, (5310MHz)



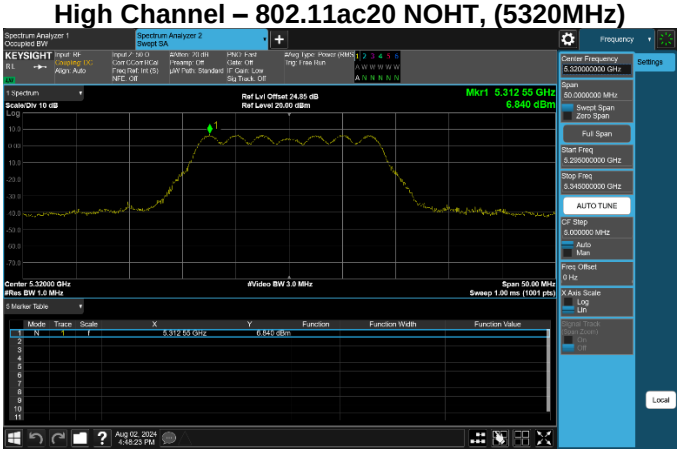
Low Channel – 802.11ac20 NOHT, (5260MHz)



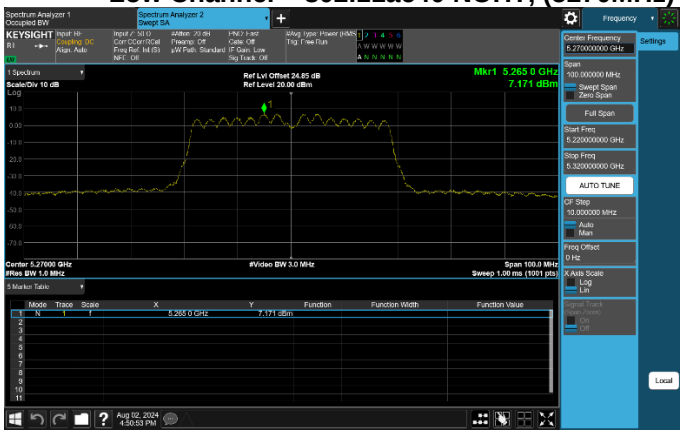
Mid Channel – 802.11ac20 NOHT, (5280MHz)



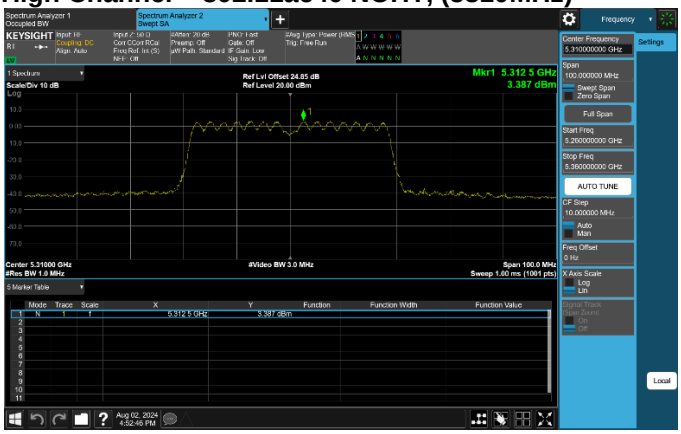
High Channel – 802.11ac20 NOHT, (5320MHz)



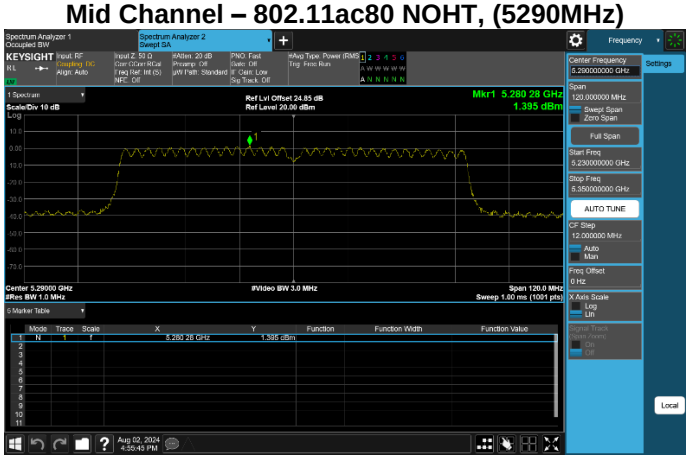
Low Channel – 802.11ac40 NOHT, (5270MHz)



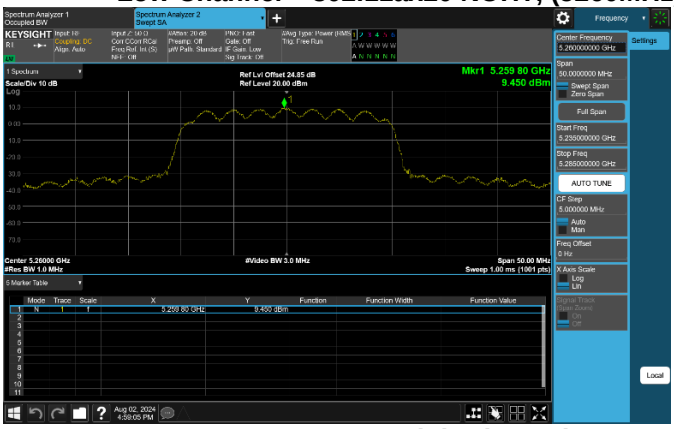
High Channel – 802.11ac40 NOHT, (5310MHz)



Mid Channel – 802.11ac80 NOHT, (5290MHz)

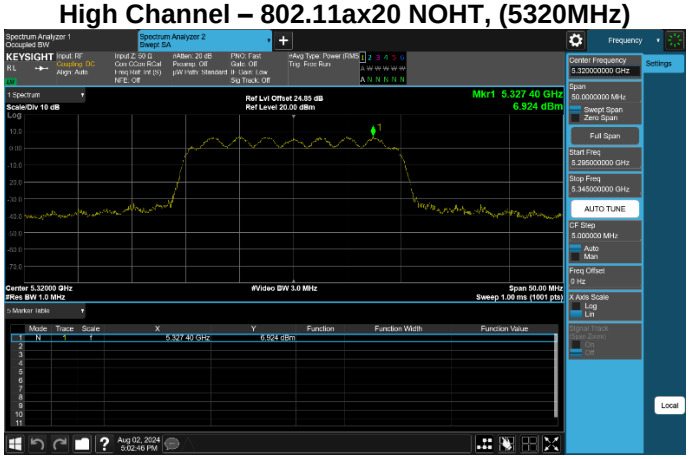


Low Channel – 802.11ax20 NOHT, (5260MHz)

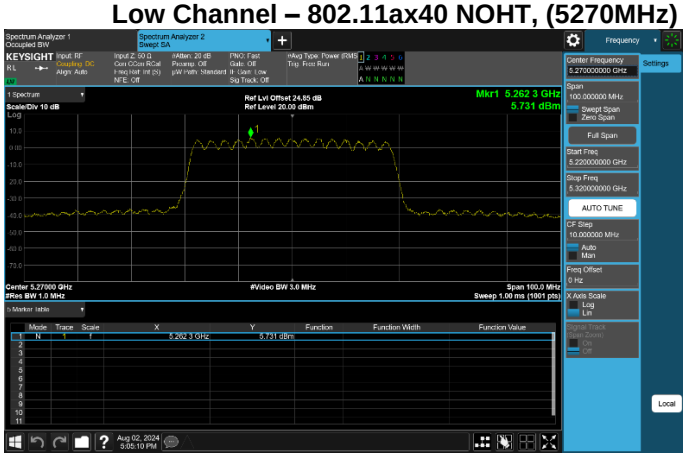


Mid Channel – 802.11ax20 NOHT, (5280MHz)

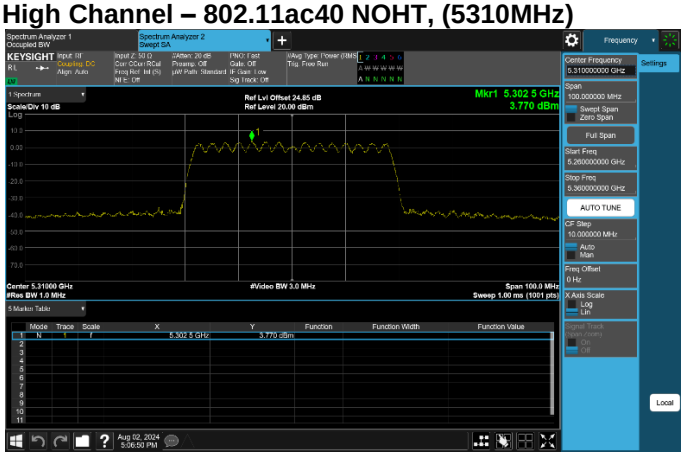
High Channel – 802.11ax20 NOHT, (5320MHz)



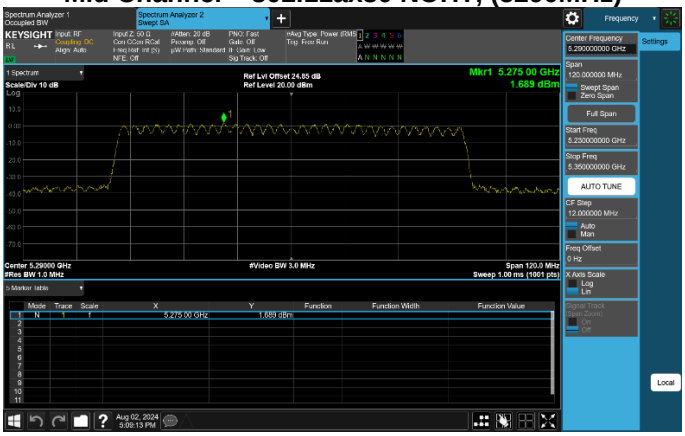
Low Channel – 802.11ax40 NOHT, (5270MHz)



High Channel – 802.11ac40 NOHT, (5310MHz)

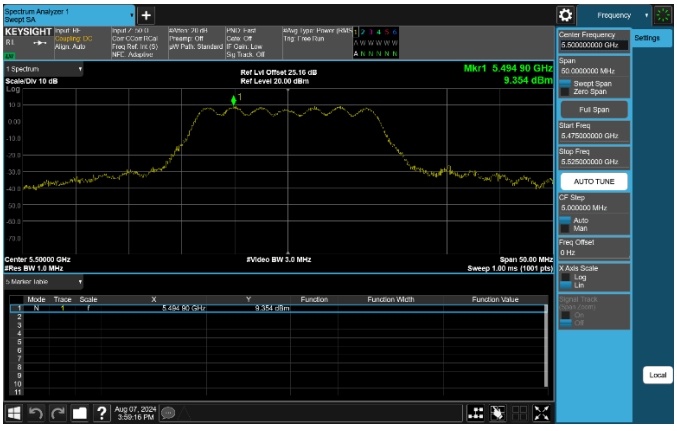


Mid Channel – 802.11ax80 NOHT, (5290MHz)

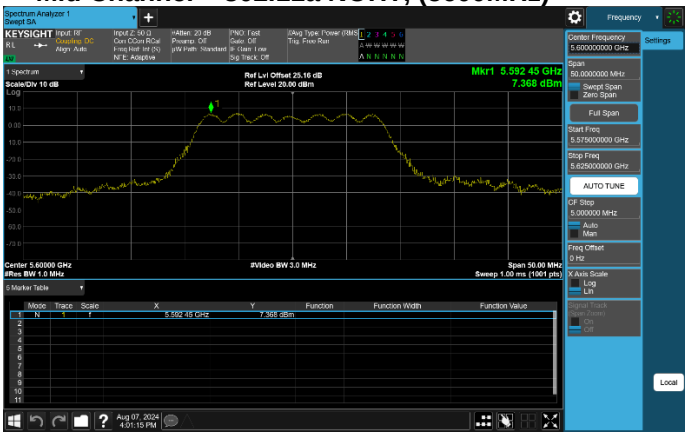


UNII2c (combined (both chains)):

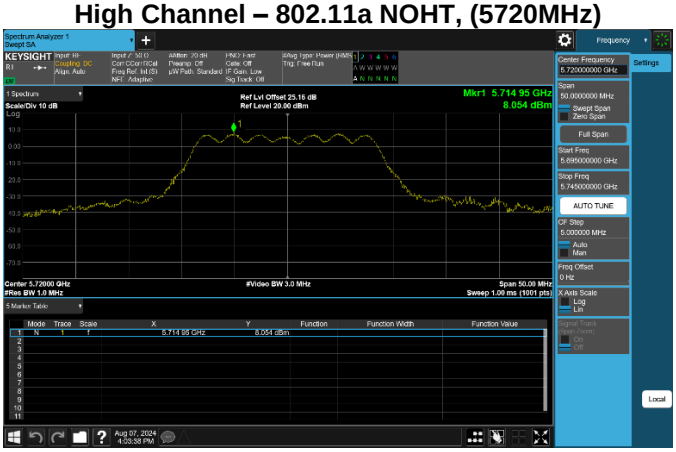
Low Channel – 802.11a NOHT, (5500MHz)



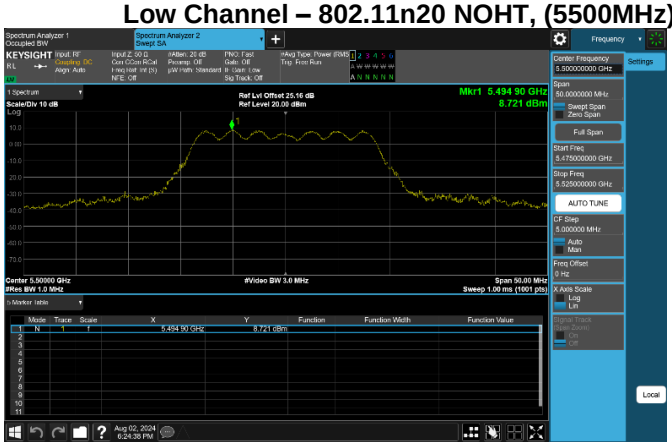
Mid Channel – 802.11a NOHT, (5600MHz)



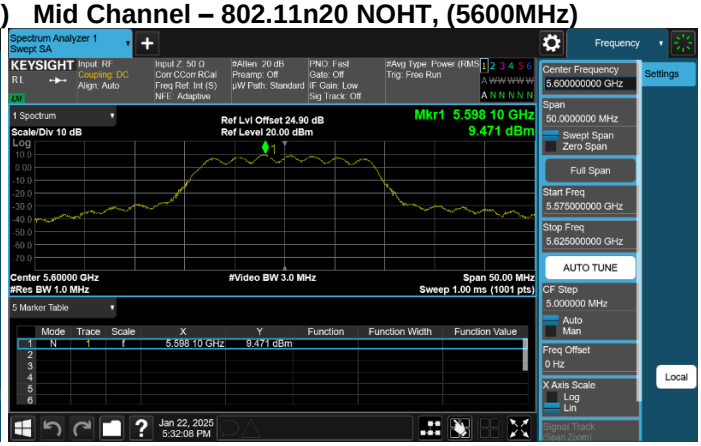
High Channel – 802.11a NOHT, (5720MHz)



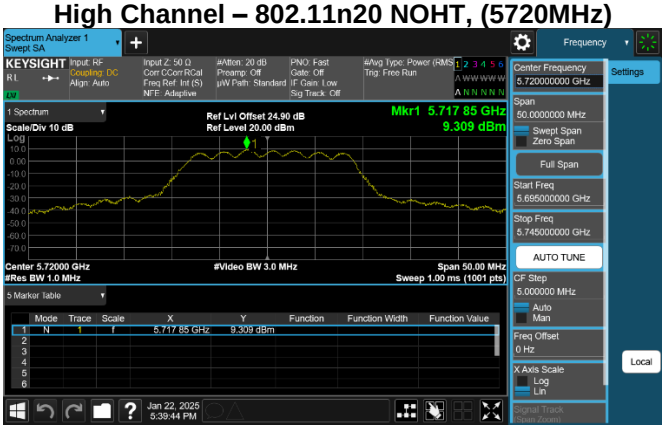
Low Channel – 802.11n20 NOHT, (5500MHz)



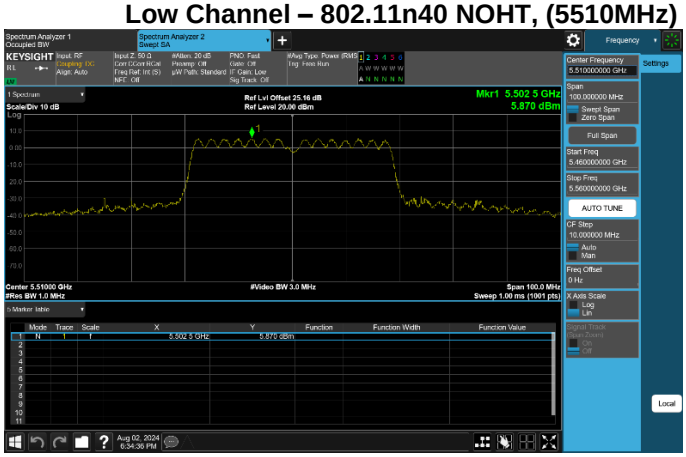
Mid Channel – 802.11n20 NOHT, (5600MHz)



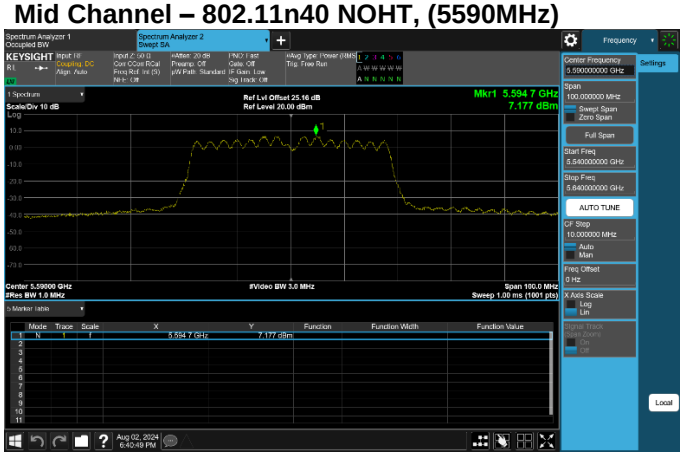
High Channel – 802.11n20 NOHT, (5720MHz)



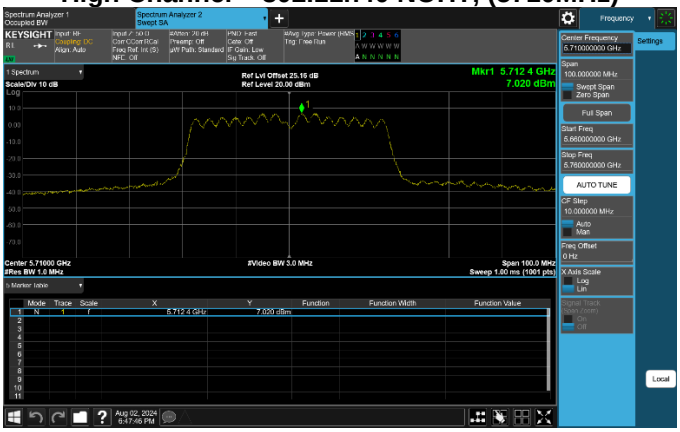
Low Channel – 802.11n40 NOHT, (5510MHz)



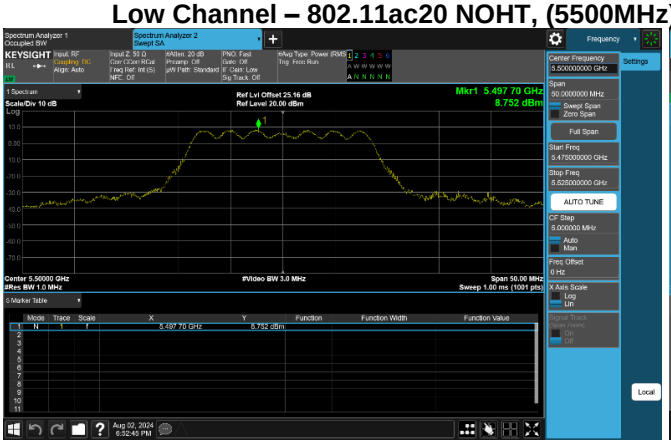
Mid Channel – 802.11n40 NOHT, (5590MHz)



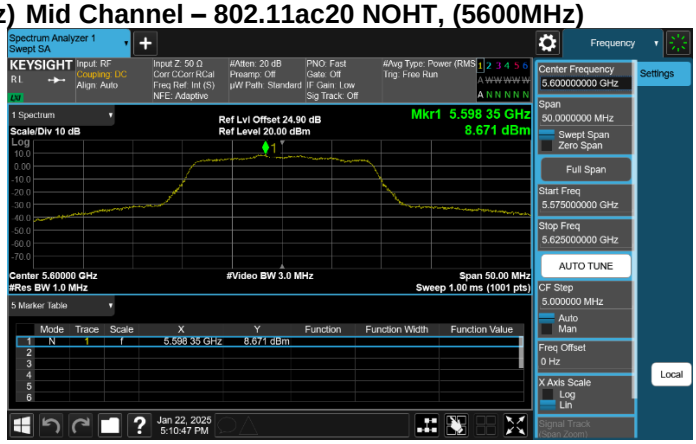
High Channel – 802.11n40 NOHT, (5710MHz)



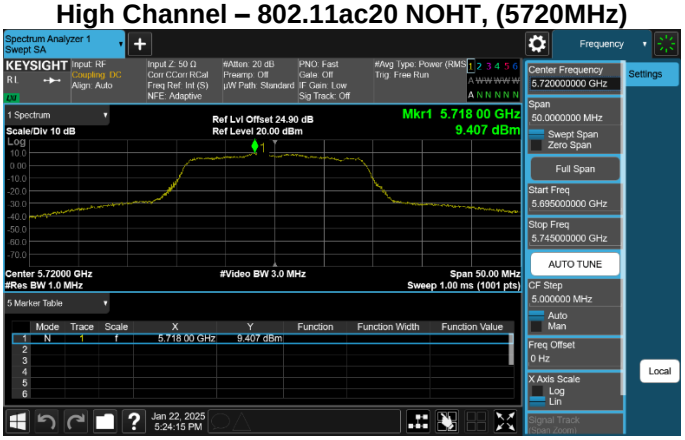
Low Channel – 802.11ac20 NOHT, (5500MHz)



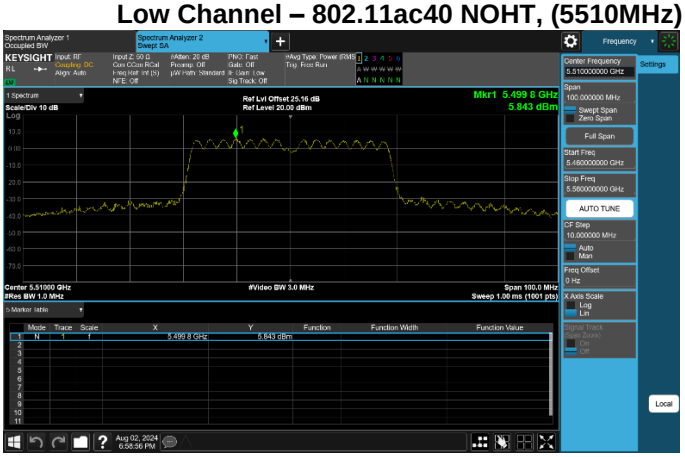
Mid Channel – 802.11ac20 NOHT, (5600MHz)



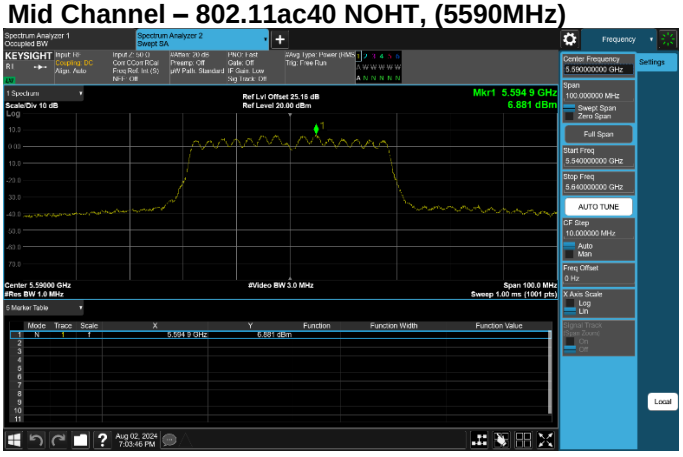
High Channel – 802.11ac20 NOHT, (5720MHz)



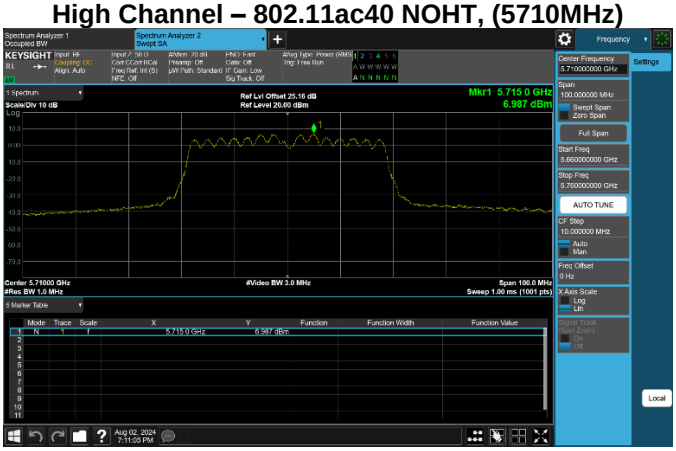
Low Channel – 802.11ac40 NOHT, (5510MHz)



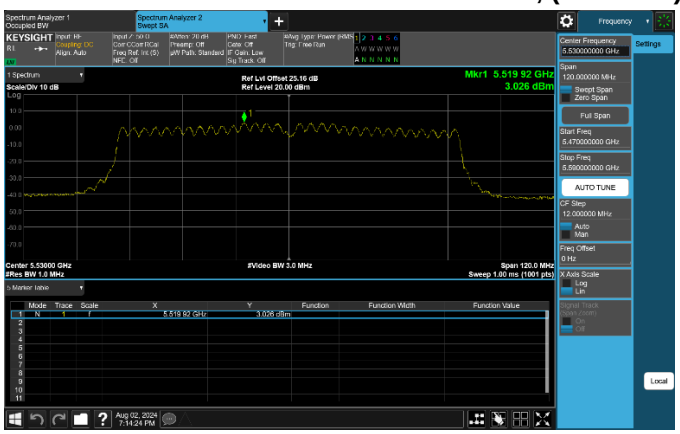
Mid Channel – 802.11ac40 NOHT, (5590MHz)



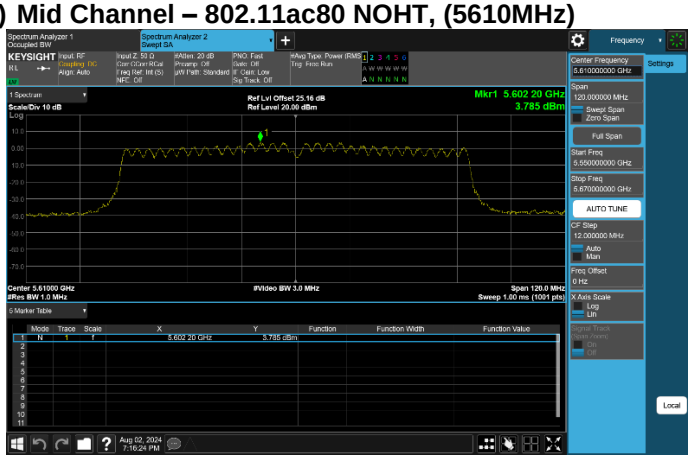
High Channel – 802.11ac40 NOHT, (5710MHz)



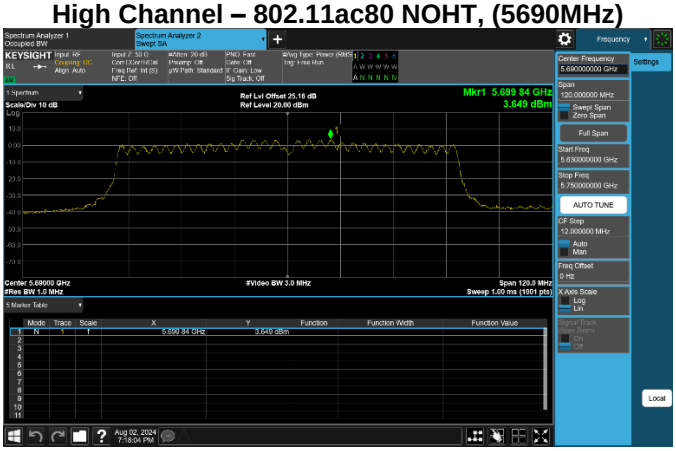
Low Channel – 802.11ac80 NOHT, (5530MHz)



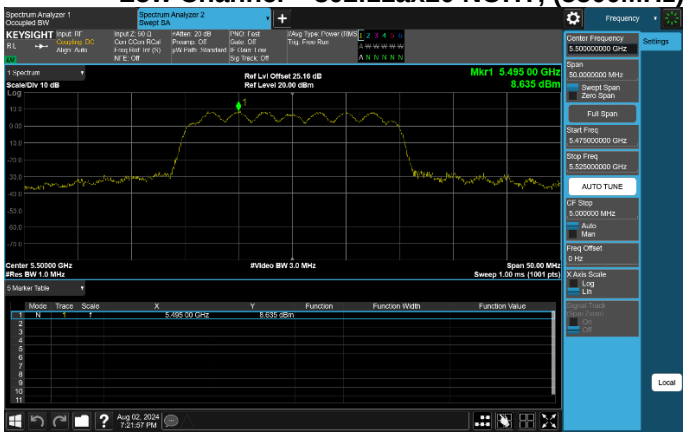
Mid Channel – 802.11ac80 NOHT, (5610MHz)



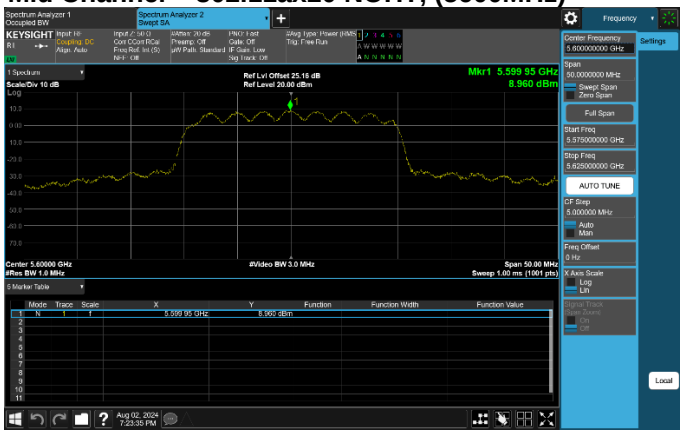
High Channel – 802.11ac80 NOHT, (5690MHz)



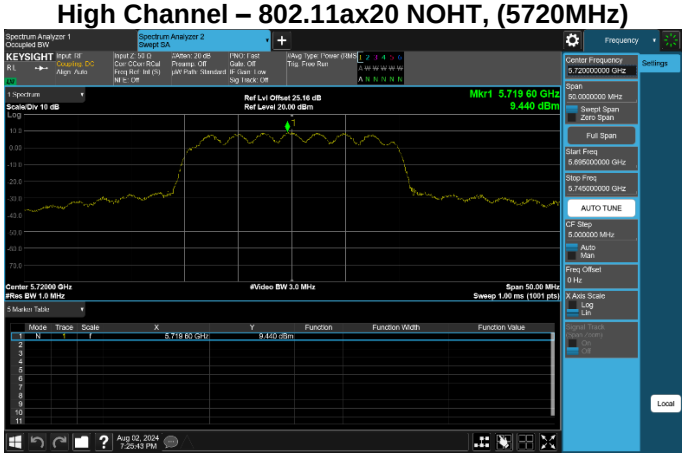
Low Channel – 802.11ax20 NOHT, (5500MHz)



Mid Channel – 802.11ax20 NOHT, (5600MHz)

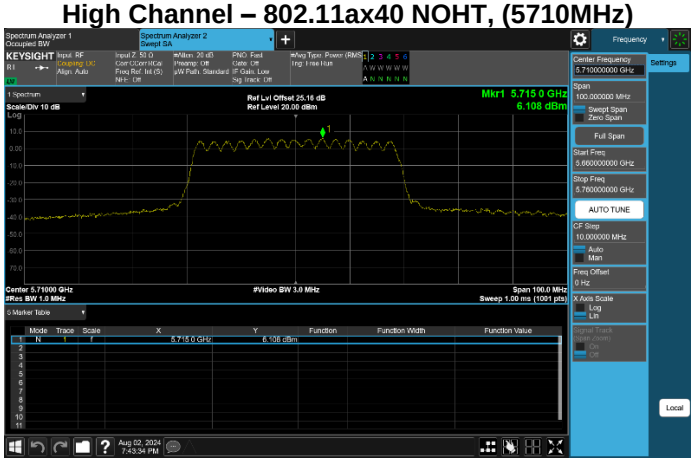


High Channel – 802.11ax20 NOHT, (5720MHz)

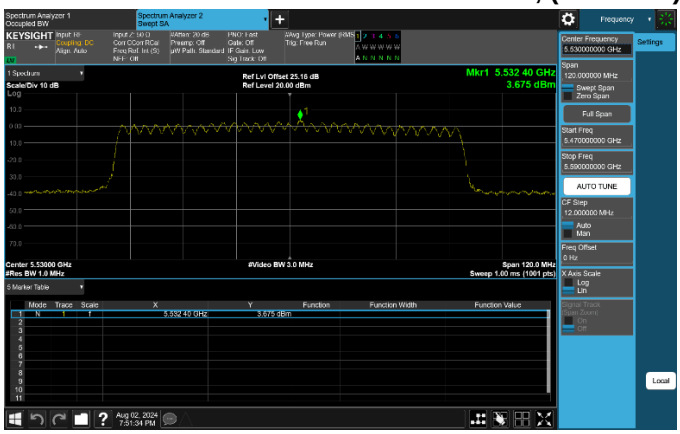


Low Channel – 802.11ax40 NOHT, (5510MHz) **Mid Channel – 802.11ax40 NOHT, (5590MHz)**

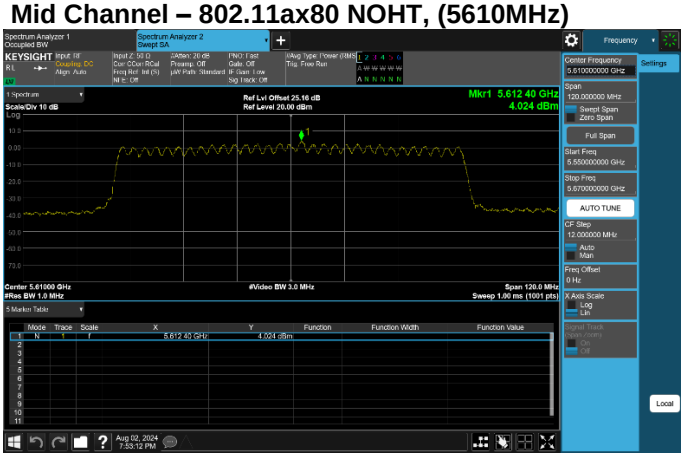
High Channel – 802.11ax40 NOHT, (5710MHz)



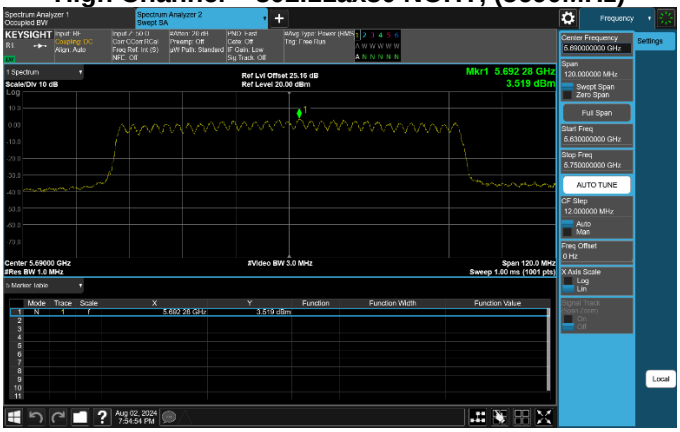
Low Channel – 802.11ax80 NOHT, (5530MHz)



Mid Channel – 802.11ax80 NOHT, (5610MHz)

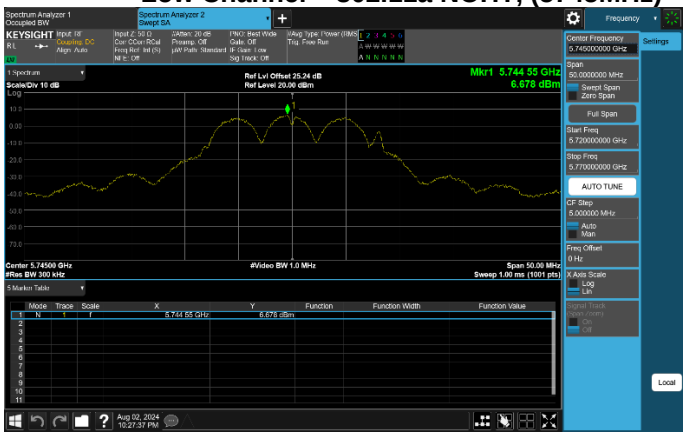


High Channel – 802.11ax80 NOHT, (5690MHz)

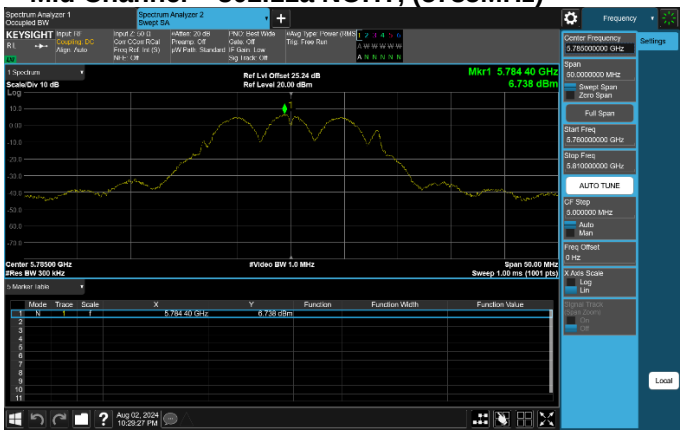


UNII3 (combined (both chains)):

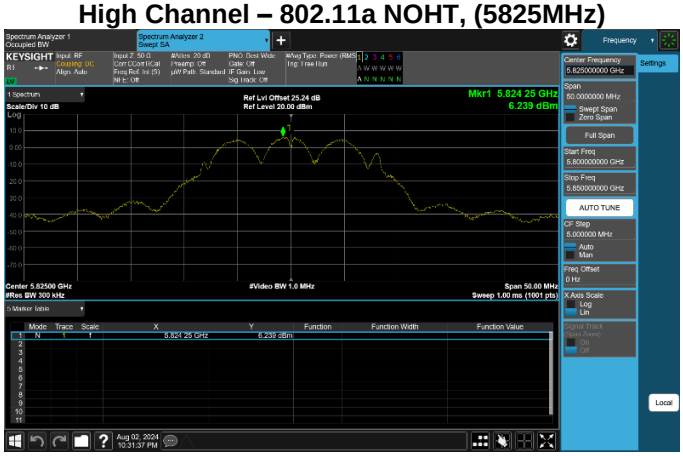
Low Channel – 802.11a NOHT, (5745MHz)



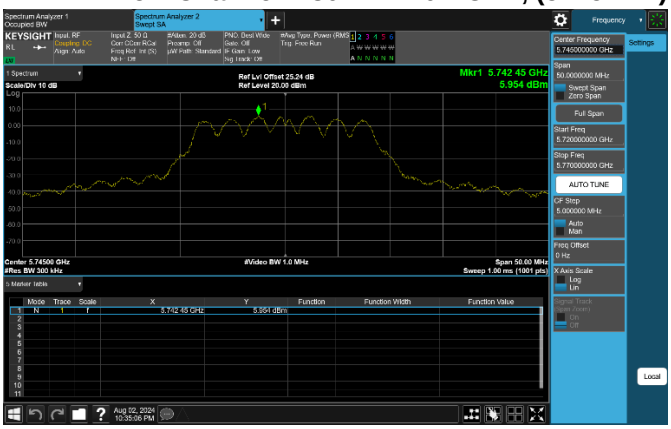
Mid Channel – 802.11a NOHT, (5785MHz)



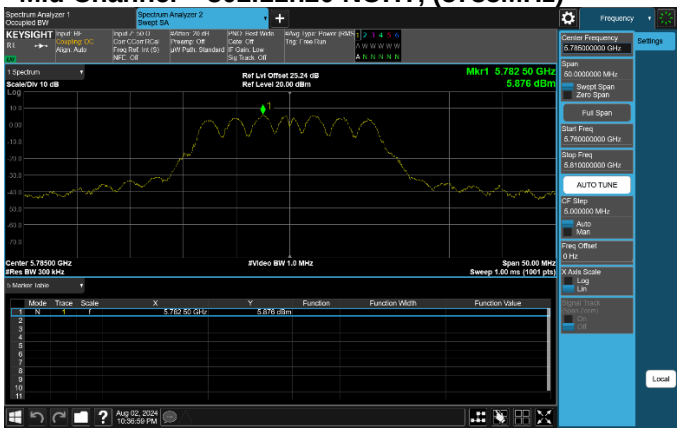
High Channel – 802.11a NOHT, (5825MHz)



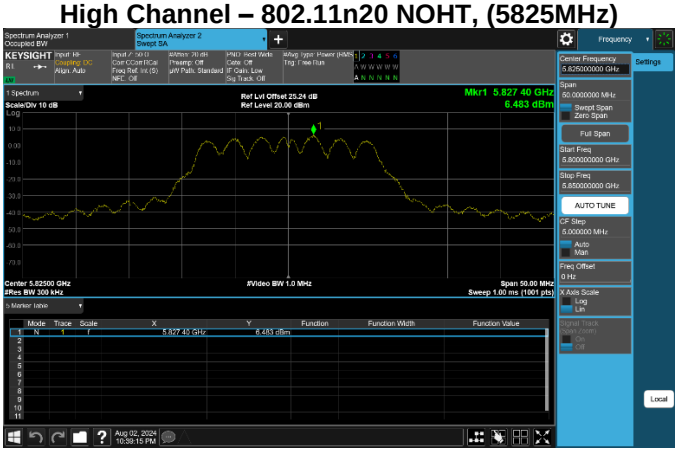
Low Channel – 802.11n20 NOHT, (5745MHz)



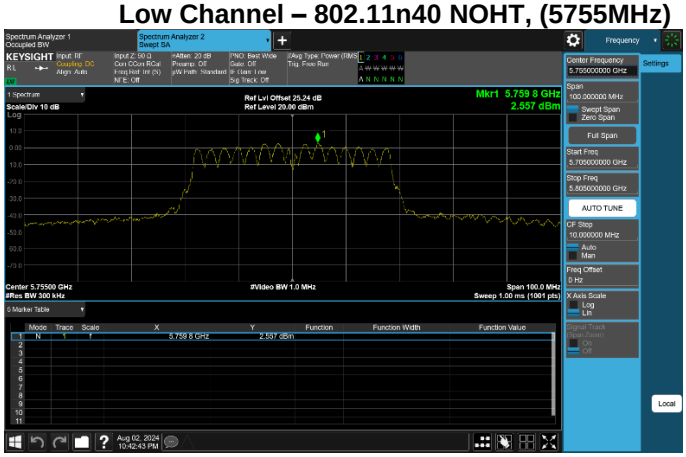
Mid Channel – 802.11n20 NOHT, (5785MHz)



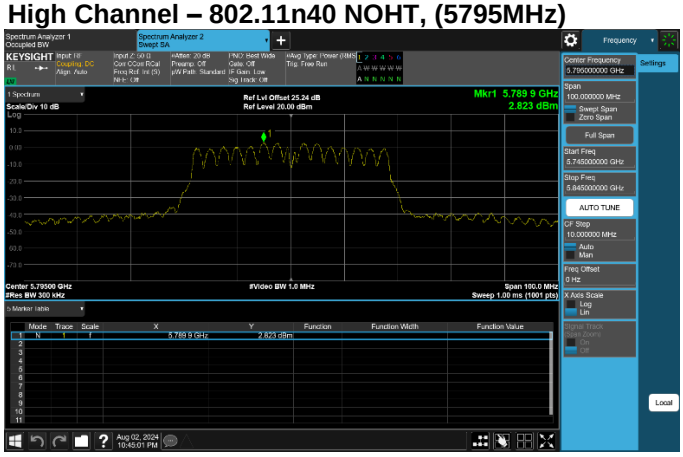
High Channel – 802.11n20 NOHT, (5825MHz)



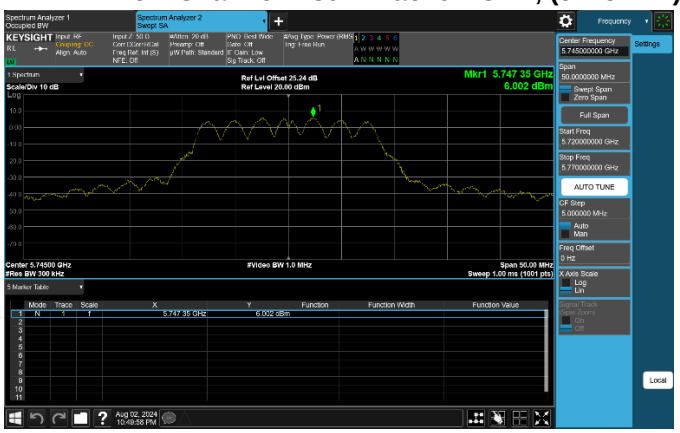
Low Channel – 802.11n40 NOHT, (5755MHz)



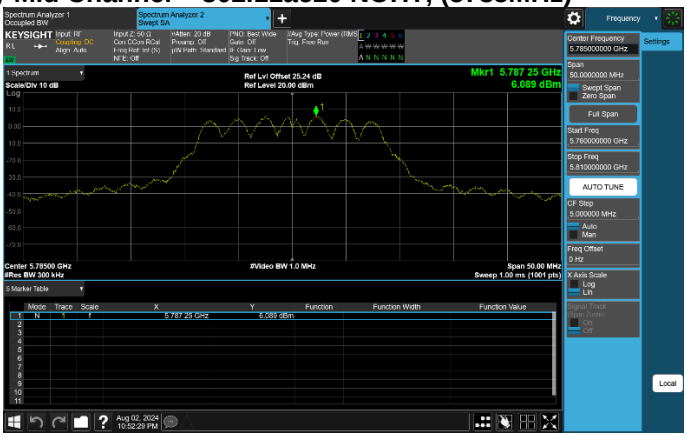
High Channel – 802.11n40 NOHT, (5795MHz)



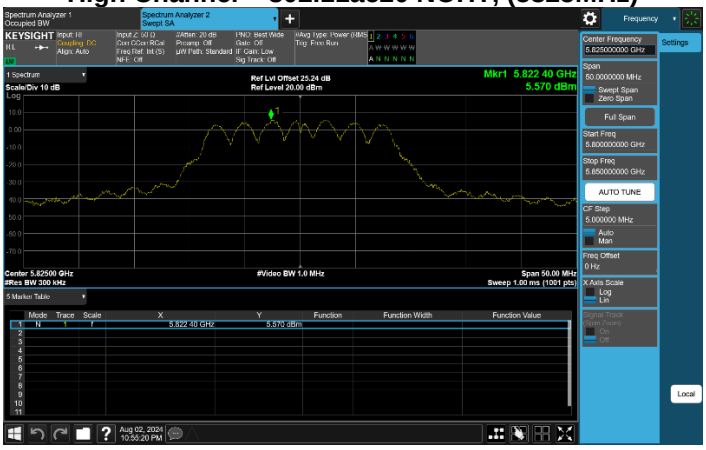
Low Channel – 802.11ac20 NOHT, (5745MHz)



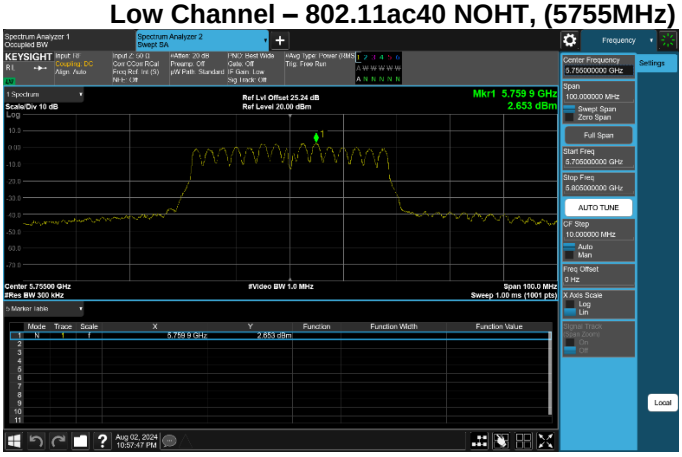
Mid Channel – 802.11ac20 NOHT, (5785MHz)



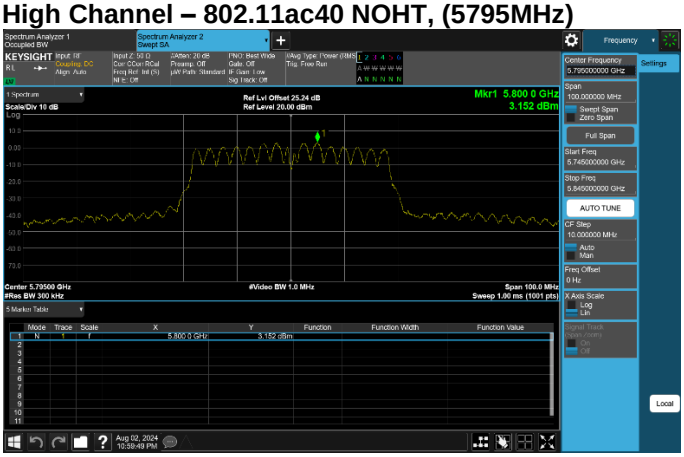
High Channel – 802.11ac20 NOHT, (5825MHz)



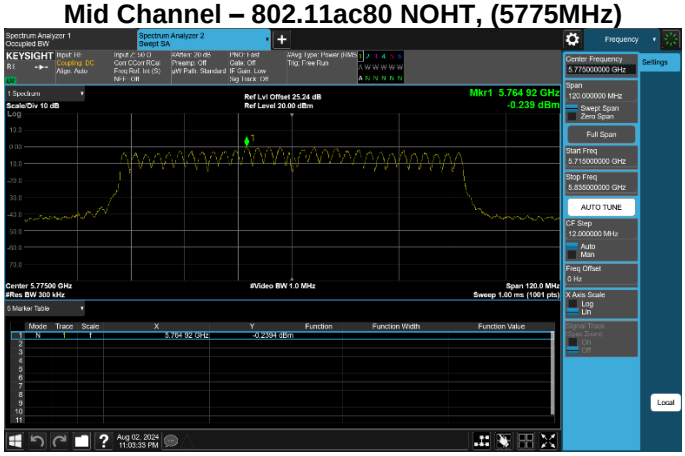
Low Channel – 802.11ac40 NOHT, (5755MHz)



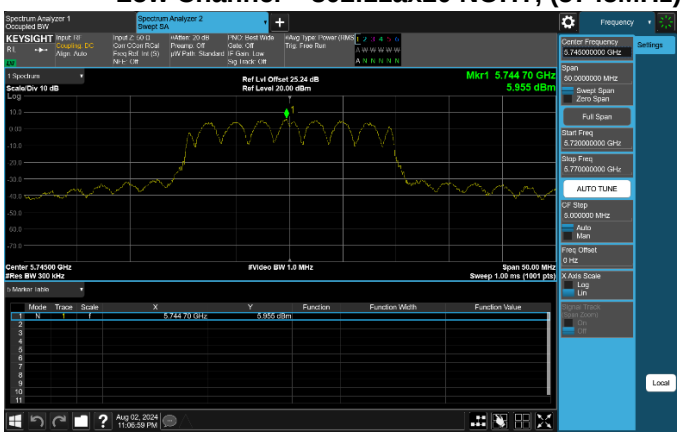
High Channel – 802.11ac40 NOHT, (5795MHz)



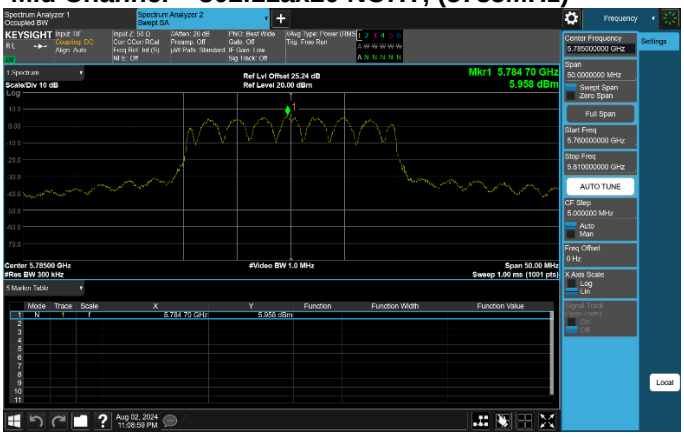
Mid Channel – 802.11ac80 NOHT, (5775MHz)



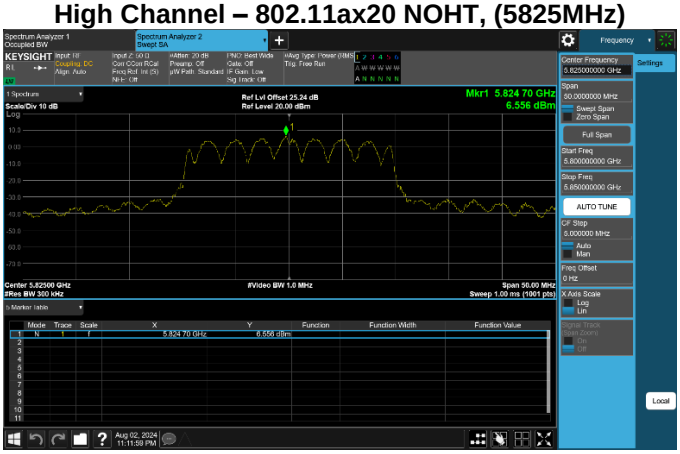
Low Channel – 802.11ax20 NOHT, (5745MHz)



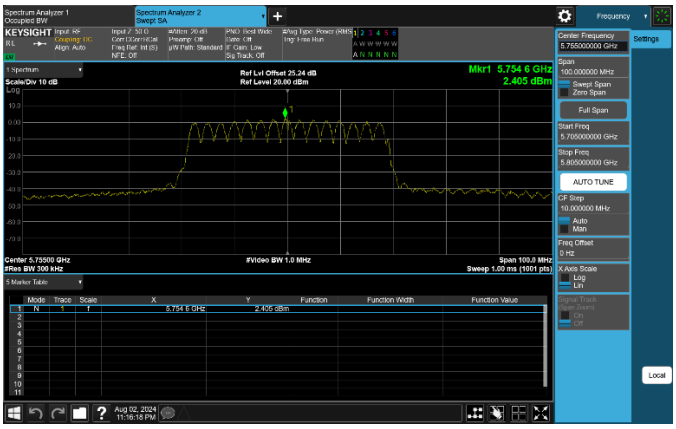
Mid Channel – 802.11ax20 NOHT, (5785MHz)



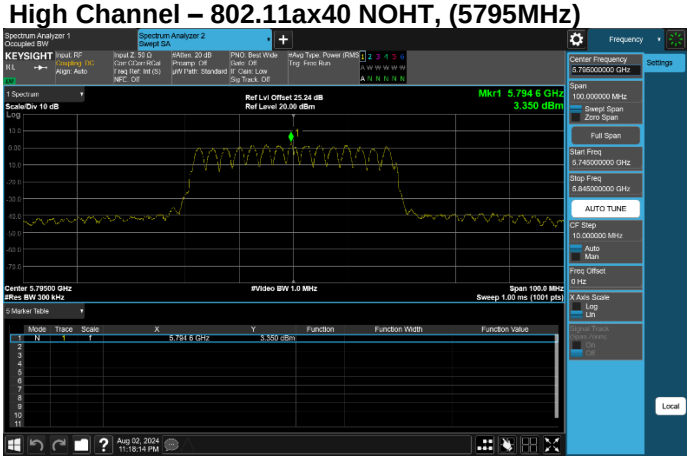
High Channel – 802.11ax20 NOHT, (5825MHz)



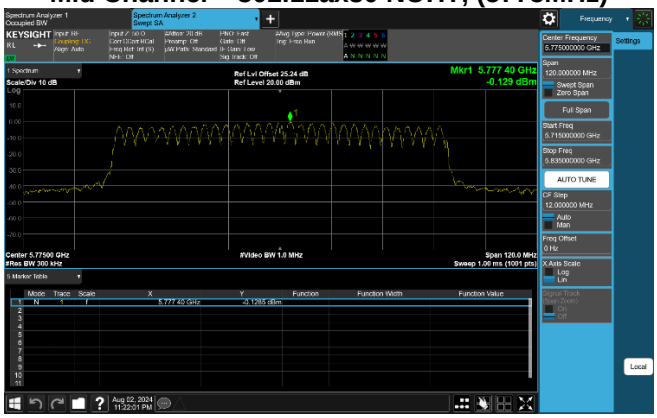
Low Channel – 802.11ax40 NOHT, (5755MHz)



High Channel – 802.11ax40 NOHT, (5795MHz)



Mid Channel – 802.11ax80 NOHT, (5775MHz)



7 Frequency stability

7.1 *Test Result*

Test Description	Test Specification		Test Result
Frequency Stability	15.407(g)	N/A	Compliant

7.2 *Applicable Requirement*

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

7.3 *Conformance*

The applicant states in Operational Description that this requirement is fulfilled. Please see that exhibit for details.

8 AC Powerline Conducted Emissions

8.1 *Test Result*

Test Description	Test Specification		Test Result
AC Powerline Conducted Emissions	15.207	RSS-GEN S8.8	Complies

8.2 *Test Method*

With the receiver's resolution bandwidth was set to 9 kHz, exploratory scans were performed over the measuring frequency range (0.15 MHz to 30 MHz) using a max hold mode incorporating a Peak detector and Average detector and using the TILE! software. The final test data was measured using a Quasi-Peak detector and Average detector and compared against the limits indicated in the table below.

Frequency Range	Limits (dBuV)
0.15 to 0.5 MHz	Avg 56 to 46 QP 66 to 56
0.5 to 5 MHz	Avg 46 Pk 56
5 to 30 MHz	Avg 50 Pk 60

8.3 *Additional information*

None.

8.4 *Test Site and Environmental Condition*

3m Absorber Lined Shielded Enclosure (ALSE), San Diego, CA

Environmental Conditions
Temperature: 20 – 25 °C
Relative Humidity: 35 – 50 %

8.5 *Test Equipment*

Test Dates: December 06, 2024 Tester: Andreas Gillmeier

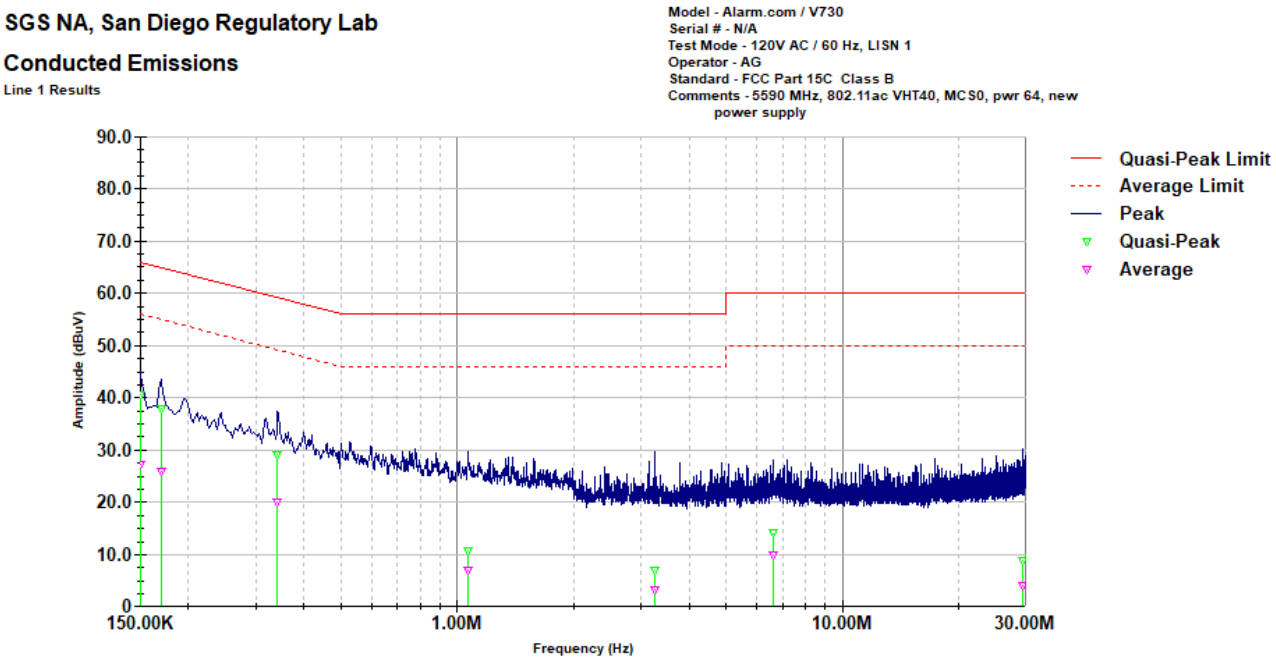
Asset No.	Type of Equipment	Model	Serial No.	Manufacturer	Cal Date	Cal Due Date
Conducted Emission 0.15 to 30 MHz						
2017	EMI Receiver	N9038B	MY59050132	Keysight	10/24/2023	01/24/2025
2027	LISN	EMV216	101535	Rhode&Schwarz	01/29/2024	01/29/2025
Miscellaneous						
2036	Temp/Humidity Data Logger	GSP-8	CMA231100002	Elitech	07/09/2024	07/09/2025
-	Test Software	TILE!	V7.8.1.7	ETS Lindgren	N/A	

8.6 *Test Setup Photographs*

Test setup photographs are located in a separate report (208949-8).

8.7 *Test Data*

Line 1 Conducted Emissions



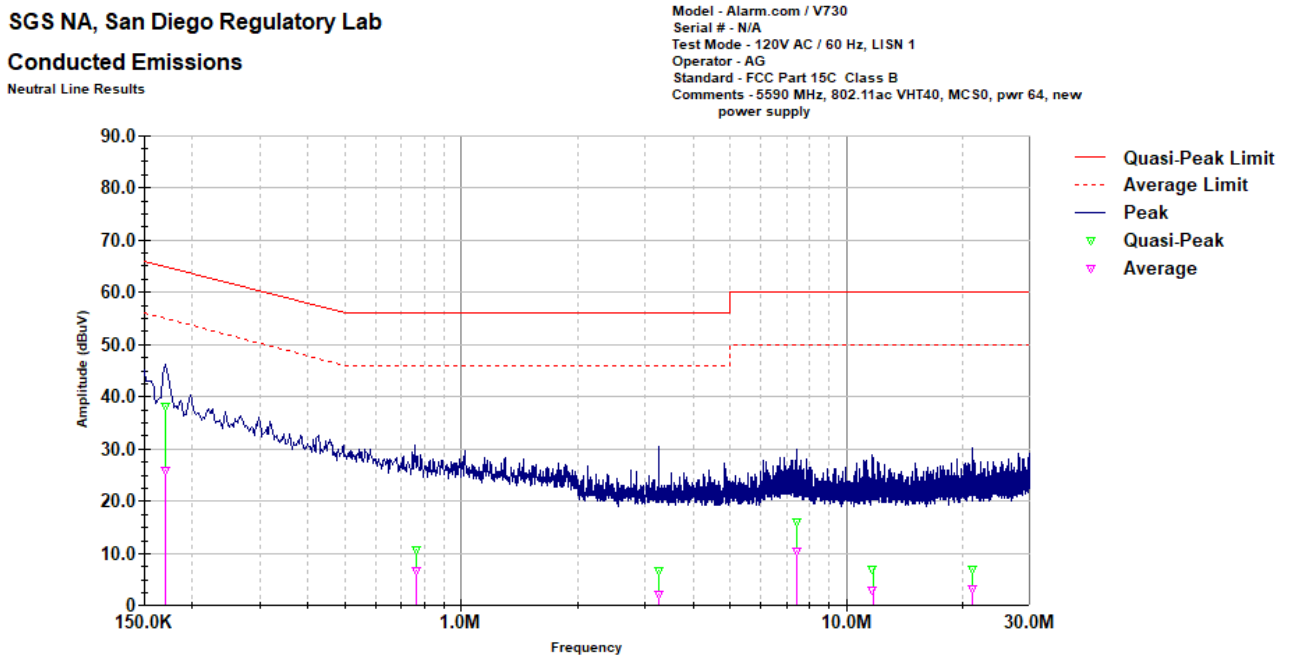
Quasi-Peak Data

Freq. (MHz)	Final QP (dBµV)	Total Corr. (dB)	Margin (dB)	Limit (dBµV)
0.15	40.56	9.48	-25.44	66
0.17025	37.99	9.49	-27.43	65.42
0.34125	29.25	9.52	-31.29	60.54
1.06575	10.8	9.55	-45.2	56
3.25725	7.11	9.63	-48.89	56
6.5985	14.09	9.83	-45.91	60
29.34	8.94	10.36	-51.06	60

Average Data

Freq. (MHz)	Final AVG (dBµV)	Total Corr. (dB)	Margin (dB)	Limit (dBµV)
0.15	27.36	9.48	-28.64	56
0.17025	25.91	9.49	-29.51	55.42
0.34125	20.05	9.52	-30.49	50.54
1.06575	6.95	9.55	-39.05	46
3.25725	3.3	9.63	-42.7	46
6.5985	10.03	9.83	-39.97	50
29.34	4.13	10.36	-45.87	50

Neutral Conducted Emissions



Quasi-Peak Data

Freq. (MHz)	Final QP (dBµV)	Total Corr. (dB)	Margin (dB)	Limit (dBµV)
0.17025	38.25	9.5	-27.17	65.42
0.762	10.77	9.59	-45.23	56
3.2595	6.68	9.71	-49.32	56
7.431	15.99	9.9	-44.01	60
11.706	7.07	10.1	-52.93	60
21.294	6.96	10.34	-53.04	60

Average Data

Freq. (MHz)	Final AVG (dBµV)	Total Corr. (dB)	Margin (dB)	Limit (dBµV)
0.17025	25.85	9.5	-29.57	55.42
0.762	6.84	9.59	-39.16	46
3.2595	2.23	9.71	-43.77	46
7.431	10.50	9.9	-39.5	50
11.706	2.98	10.1	-47.02	50
21.294	3.31	10.34	-46.69	50

9 Measurement Uncertainty

The measurement uncertainty figures are calculated in accordance with TR 100 028-1 [2] and correspond to an expansion factor (coverage factor) k = 2 (which provides confidence levels of 95.45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Measurement uncertainty is not used to adjust the measurements to determine compliance.

	Expanded Uncertainty for Normal k factor equal to 2	
Parameter	Required	Laboratory Actual
Radio Frequency	±1 x 10-5	±9.8 x 10-8
total RF power, conducted	±1.5 dB	±1.2 dB
RF power density, conducted	±3 dB	±0.7 dB
spurious emissions, conducted	±3 dB	±2.1 dB
all emissions, radiated	±6 dB	±4.8 dB
temperature	±1°C	±0.5°C
humidity	±5 %	±3.5%
DC and low frequency voltages	±3 %	±0.4%

10 Revision History

Revision Level	Description of changes	Revision Date
0	Initial Release	February 10, 2025
1	Updated sample receive date in chapter 2.4 Updated reference to ANSI C63.10 (2023) in chapters 2.4 and 3.2 Inserted chapter 7 (Frequency Stability)	February 27, 2025