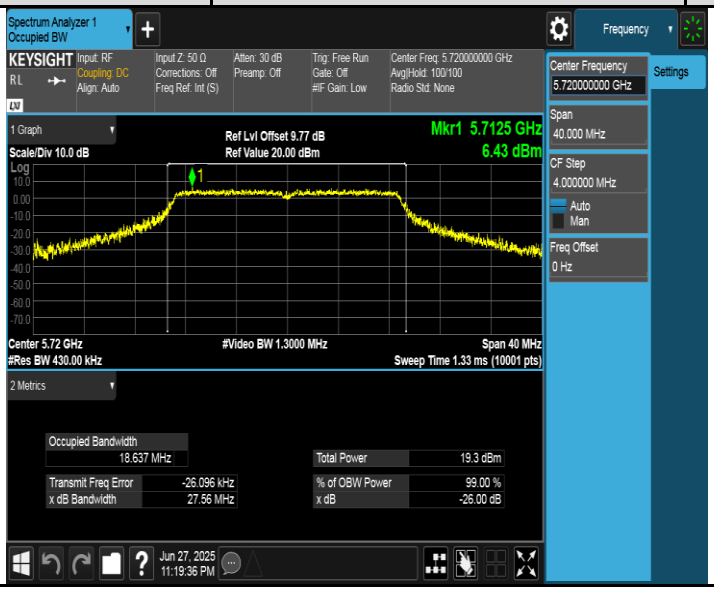
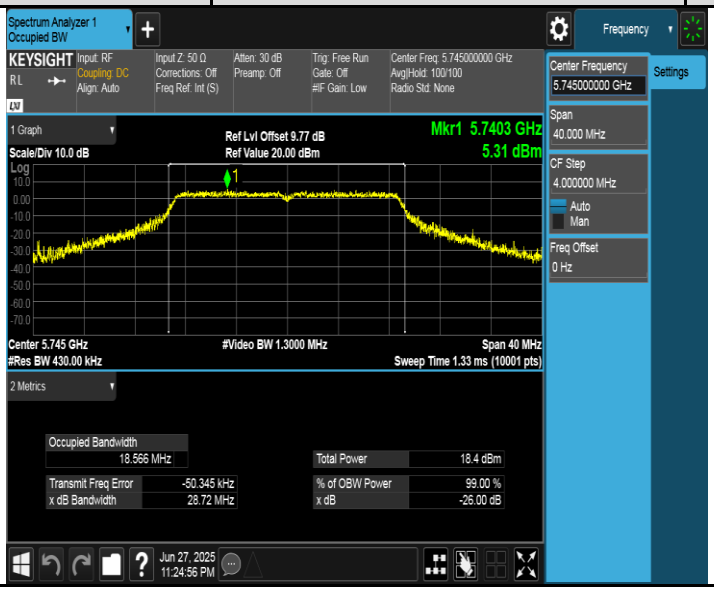
Test Mode	Test Channel	Verdict
11ac VHT20	5720	PASS



Test Mode	Test Channel	Verdict
11ac VHT20	5745	PASS



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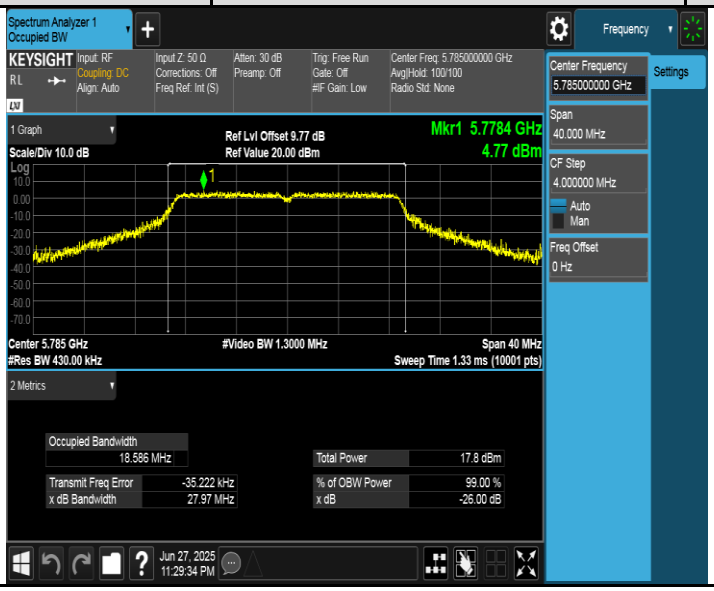
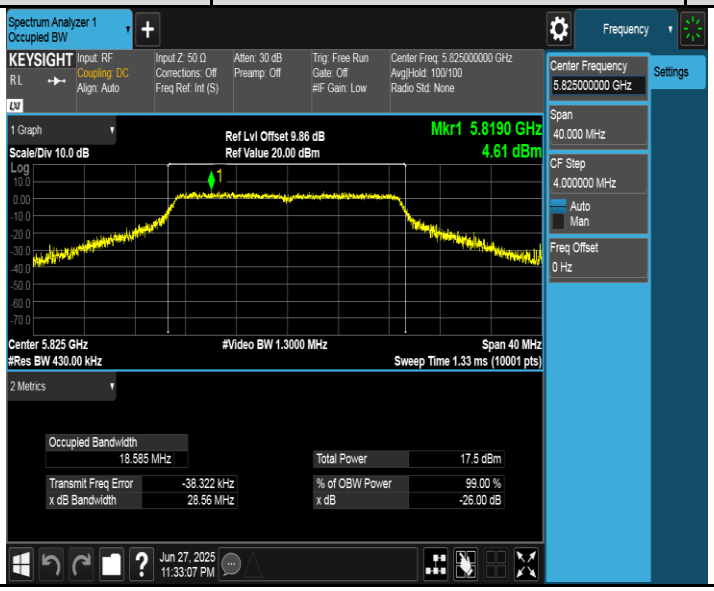
Test Mode	Test Channel	Verdict
11ac VHT20	5785	PASS



Test Mode	Test Channel	Verdict
11ac VHT20	5825	PASS



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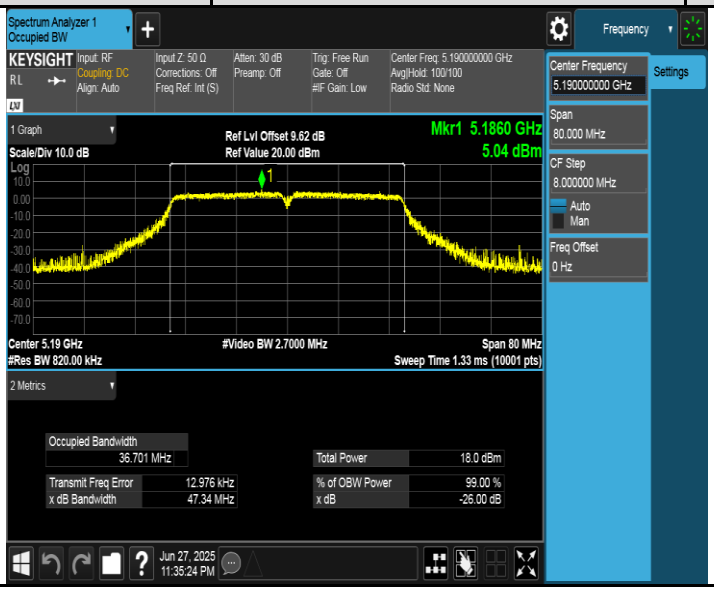
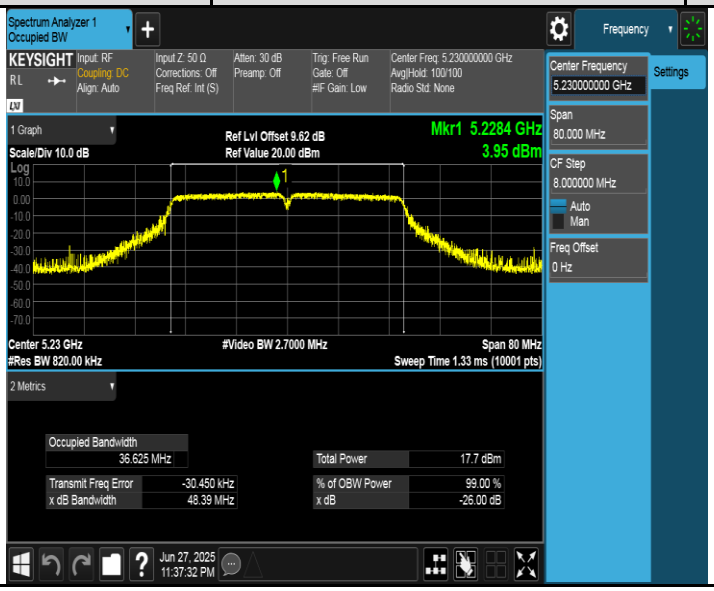
Test Mode	Test Channel	Verdict
11ac VHT40	5190	PASS



Test Mode	Test Channel	Verdict
11ac VHT40	5230	PASS



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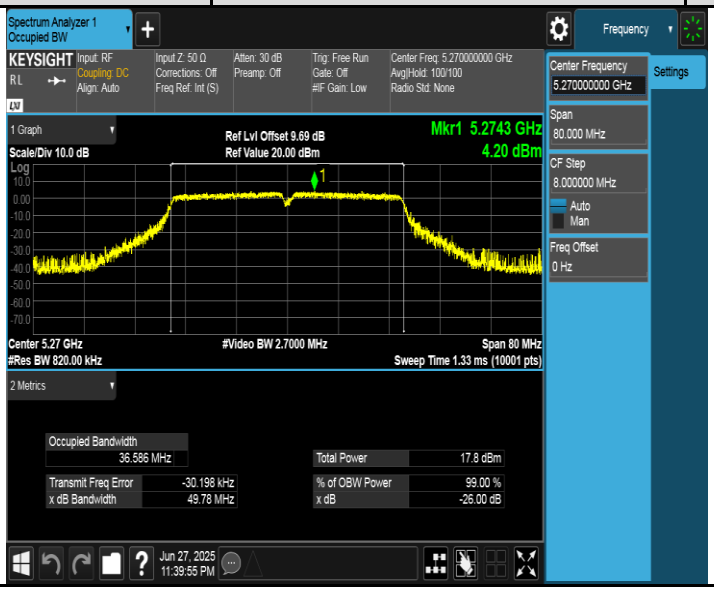
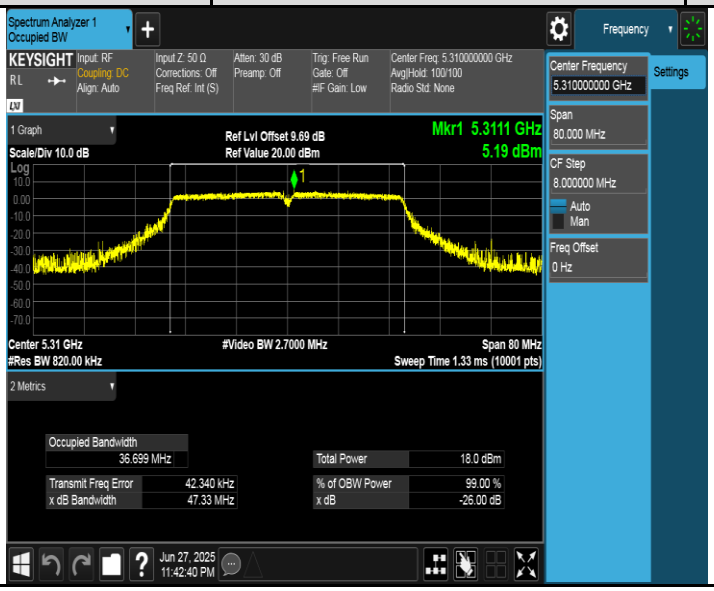
Test Mode	Test Channel	Verdict
11ac VHT40	5270	PASS



Test Mode	Test Channel	Verdict
11ac VHT40	5310	PASS



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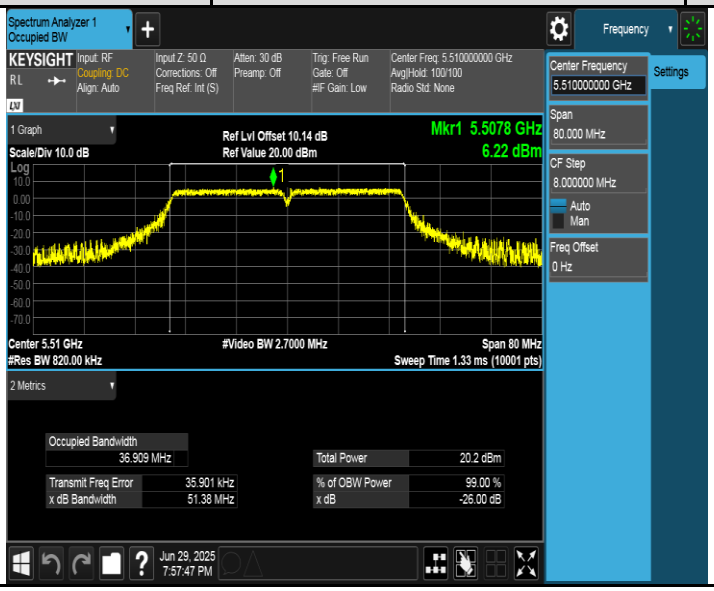
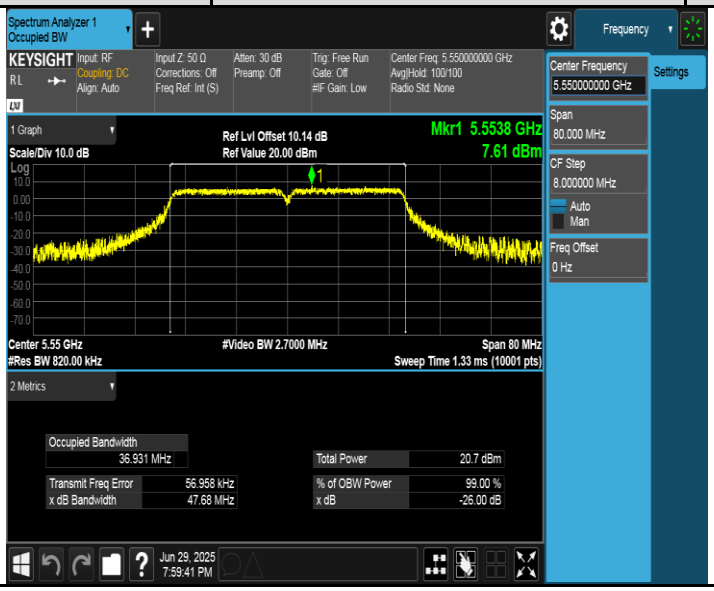
Test Mode	Test Channel	Verdict
11ac VHT40	5510	PASS



Test Mode	Test Channel	Verdict
11ac VHT40	5550	PASS



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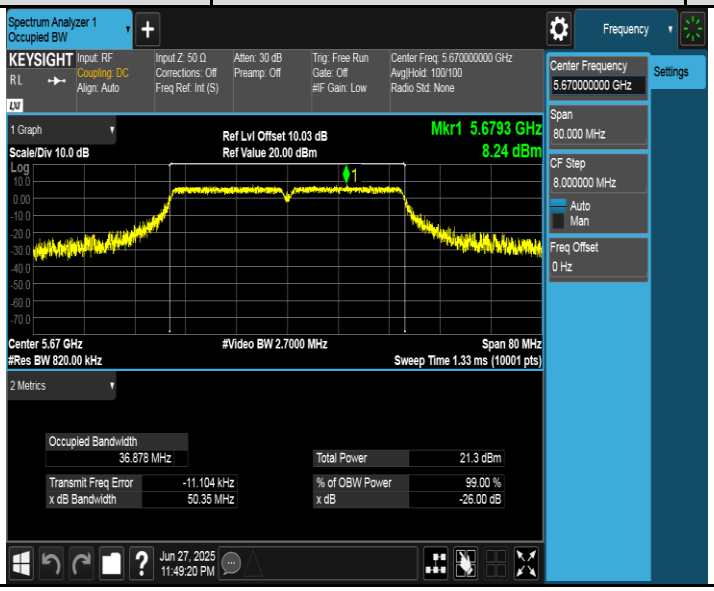
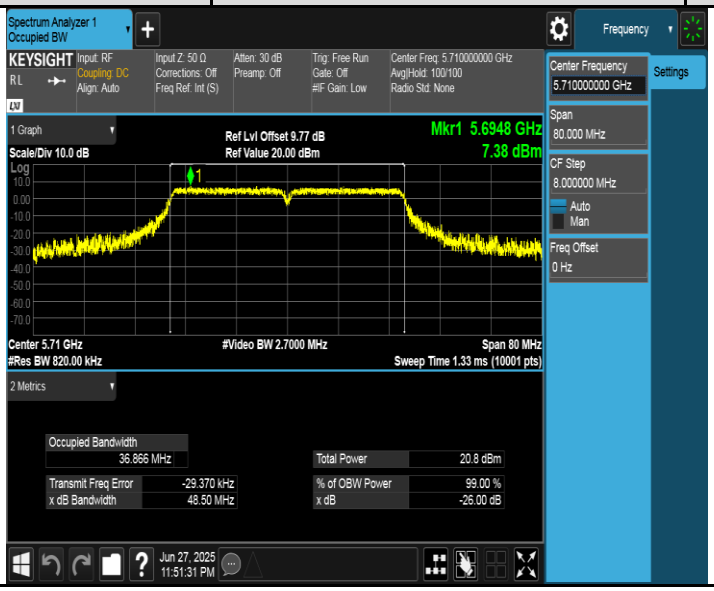
Test Mode	Test Channel	Verdict
11ac VHT40	5670	PASS



Test Mode	Test Channel	Verdict
11ac VHT40	5710	PASS



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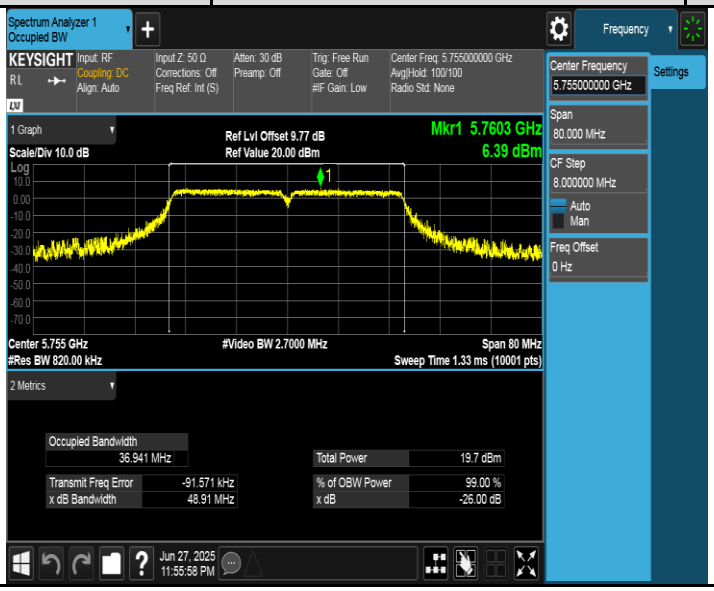
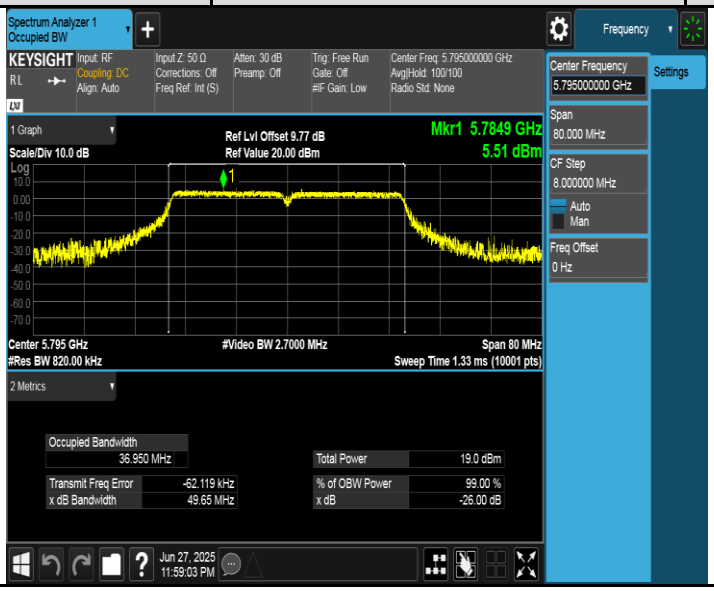
Test Mode	Test Channel	Verdict
11ac VHT40	5755	PASS



Test Mode	Test Channel	Verdict
11ac VHT40	5795	PASS



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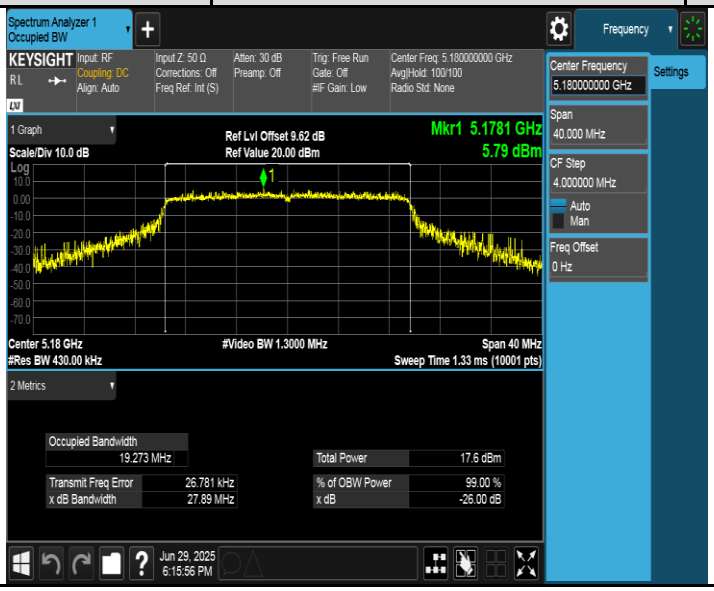
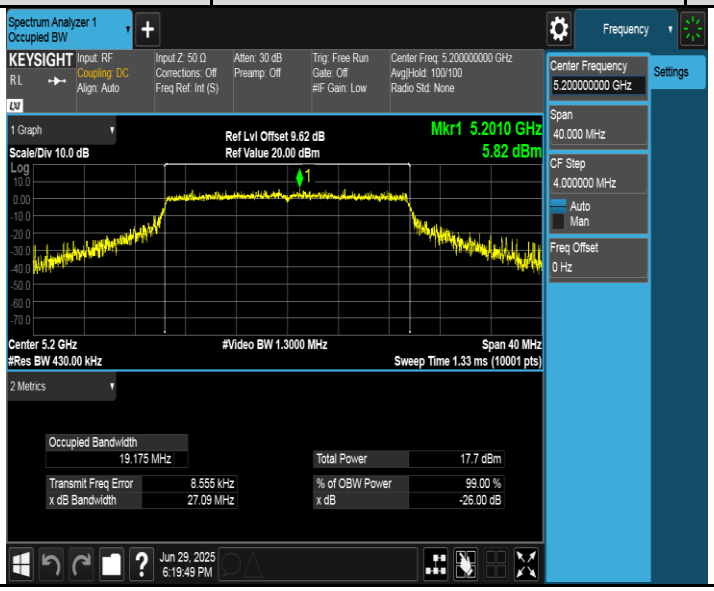
Test Mode	Test Channel	Verdict
11ax HE20	5180	PASS



Test Mode	Test Channel	Verdict
11ax HE20	5200	PASS



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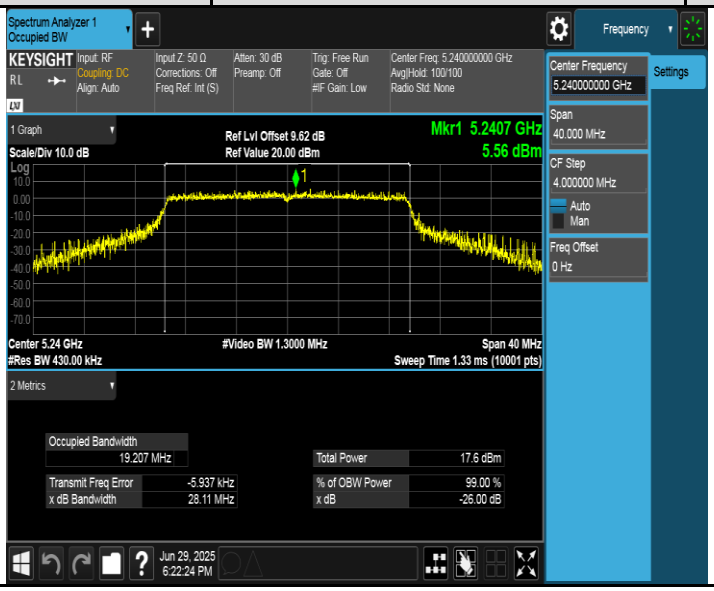
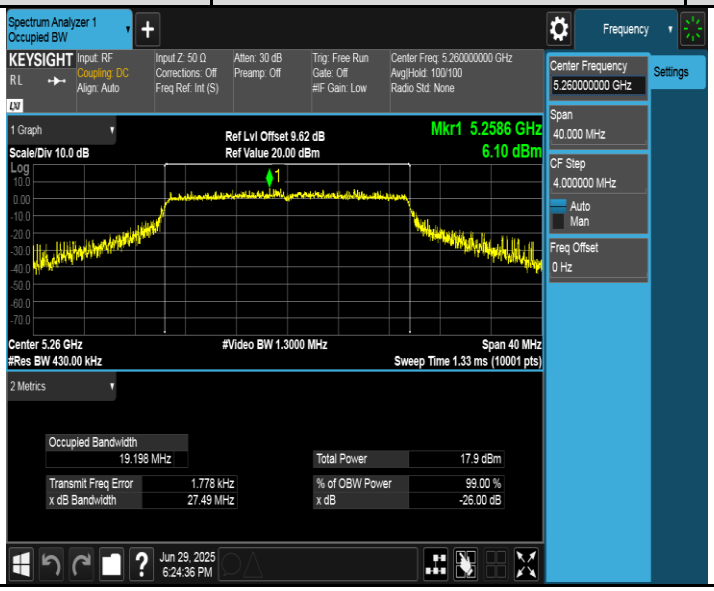
Test Mode	Test Channel	Verdict
11ax HE20	5240	PASS



Test Mode	Test Channel	Verdict
11ax HE20	5260	PASS



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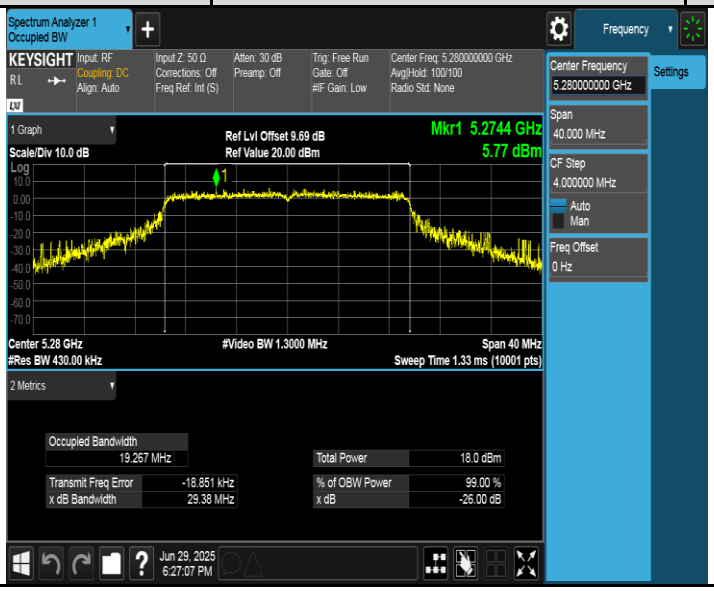
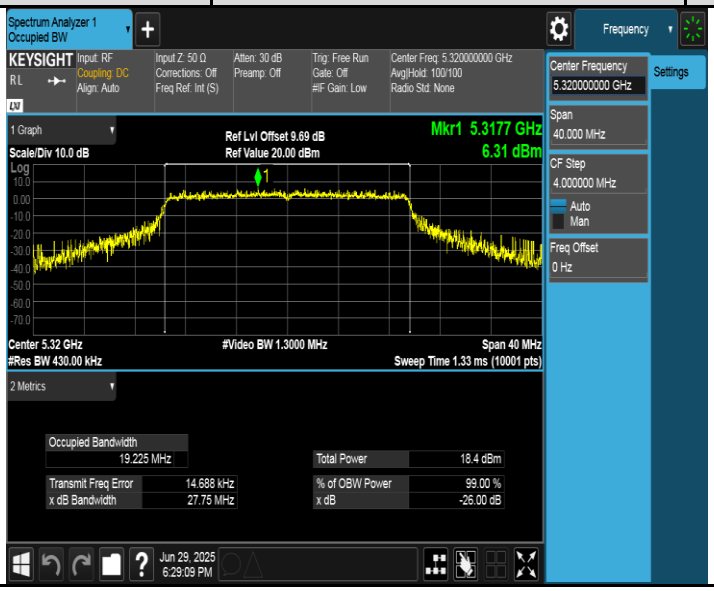
Test Mode	Test Channel	Verdict
11ax HE20	5280	PASS



Test Mode	Test Channel	Verdict
11ax HE20	5320	PASS



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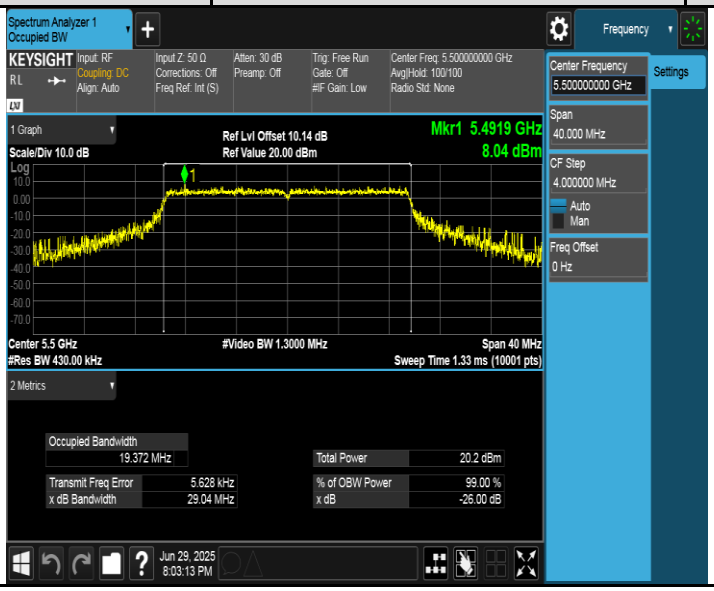
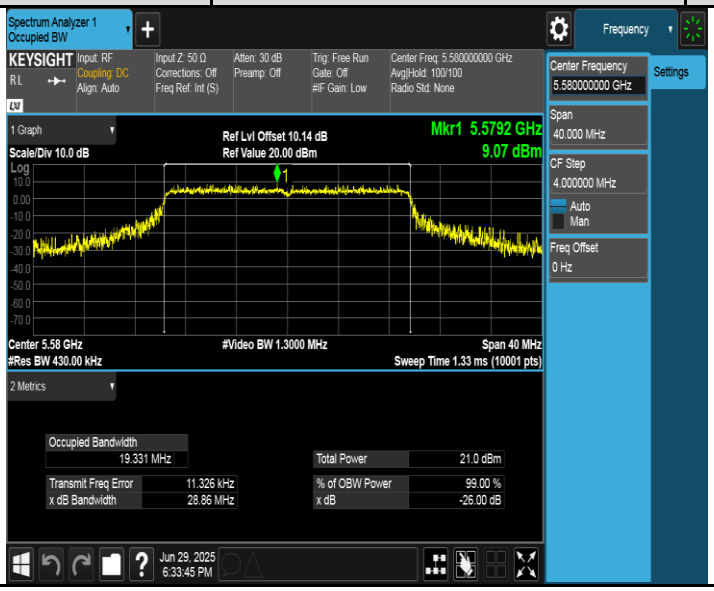
Test Mode	Test Channel	Verdict
11ax HE20	5500	PASS



Test Mode	Test Channel	Verdict
11ax HE20	5580	PASS



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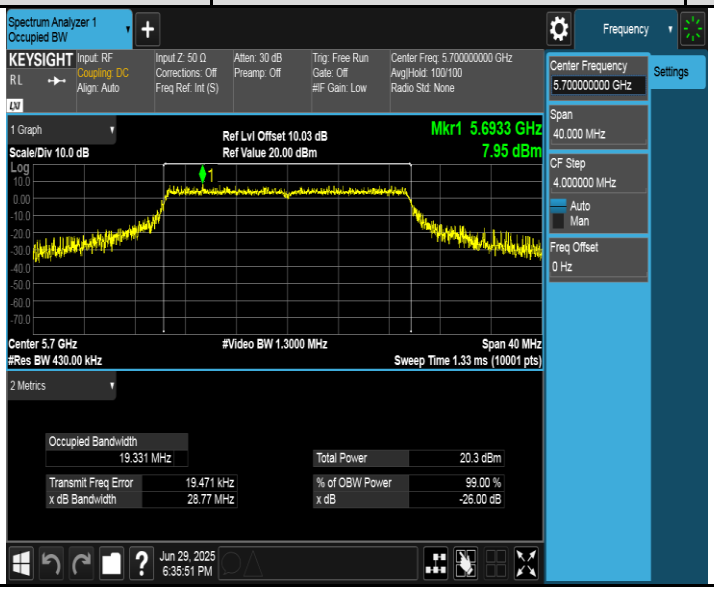
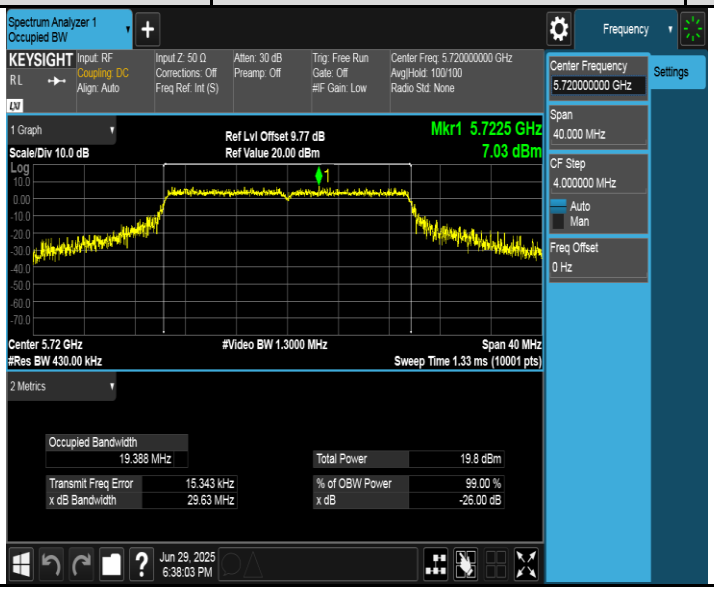
Test Mode	Test Channel	Verdict
11ax HE20	5700	PASS



Test Mode	Test Channel	Verdict
11ax HE20	5720	PASS



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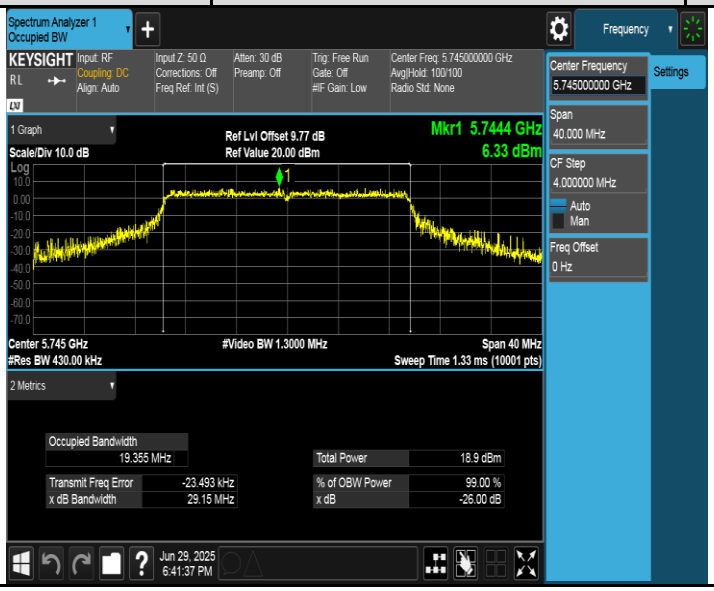
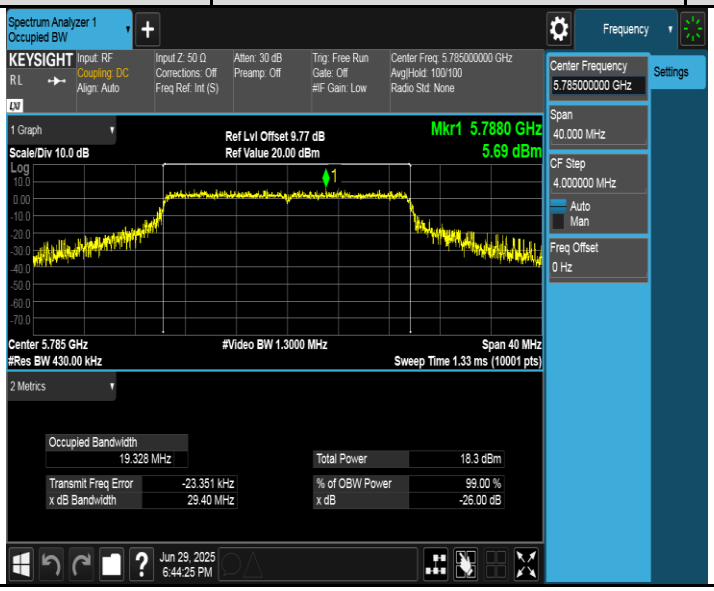
Test Mode	Test Channel	Verdict
11ax HE20	5745	PASS



Test Mode	Test Channel	Verdict
11ax HE20	5785	PASS



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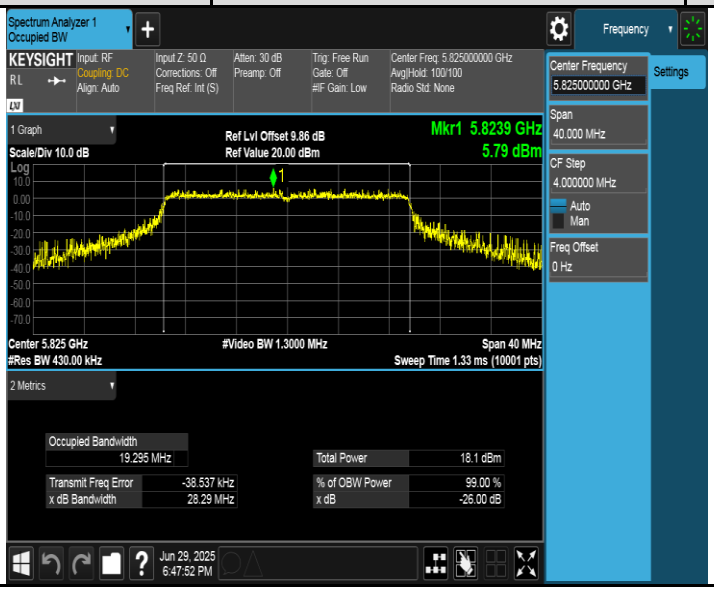
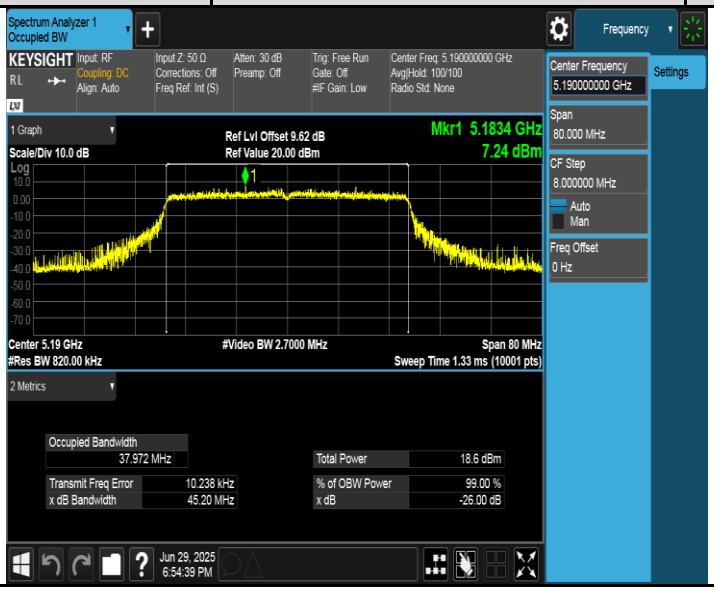
Test Mode	Test Channel	Verdict
11ax HE20	5825	PASS



Test Mode	Test Channel	Verdict
11ax HE40	5190	PASS



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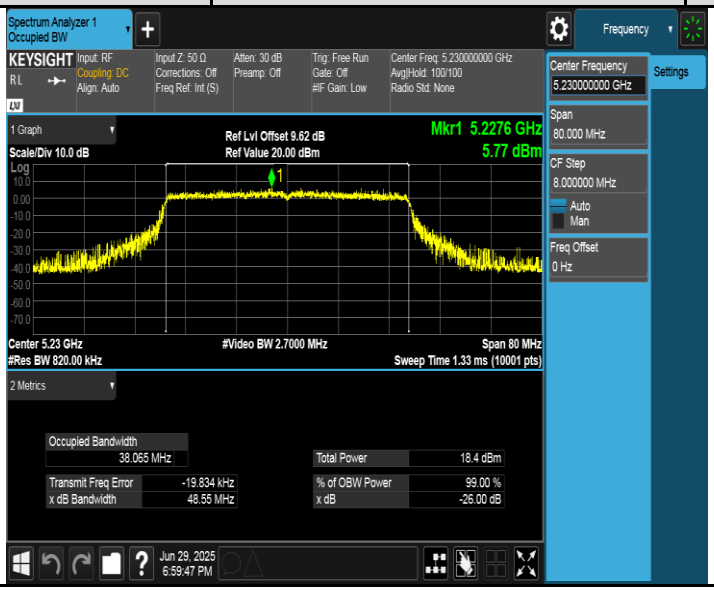
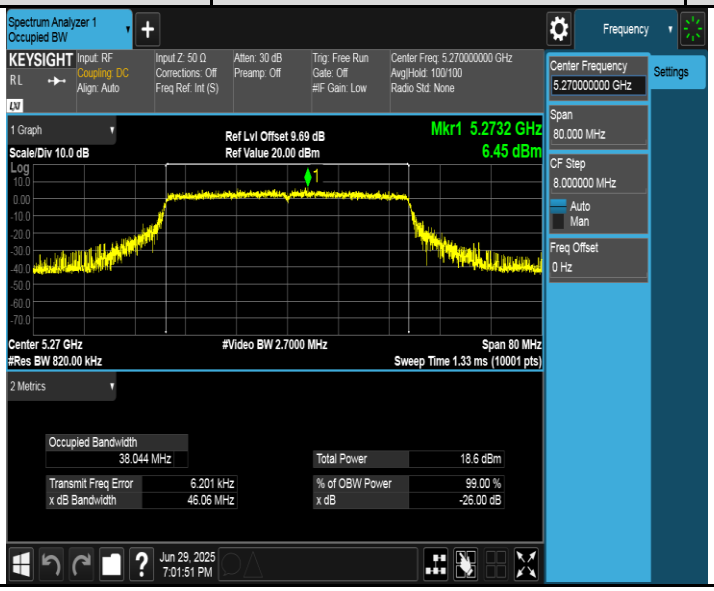
Test Mode	Test Channel	Verdict
11ax HE40	5230	PASS



Test Mode	Test Channel	Verdict
11ax HE40	5270	PASS



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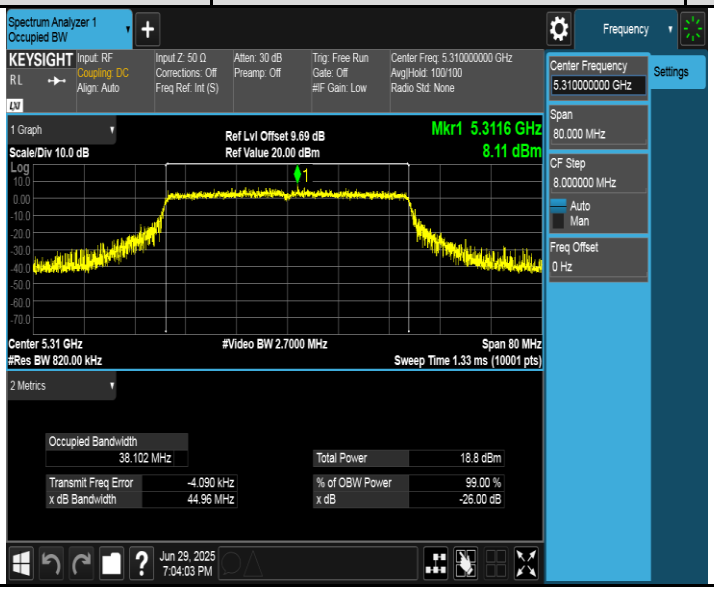
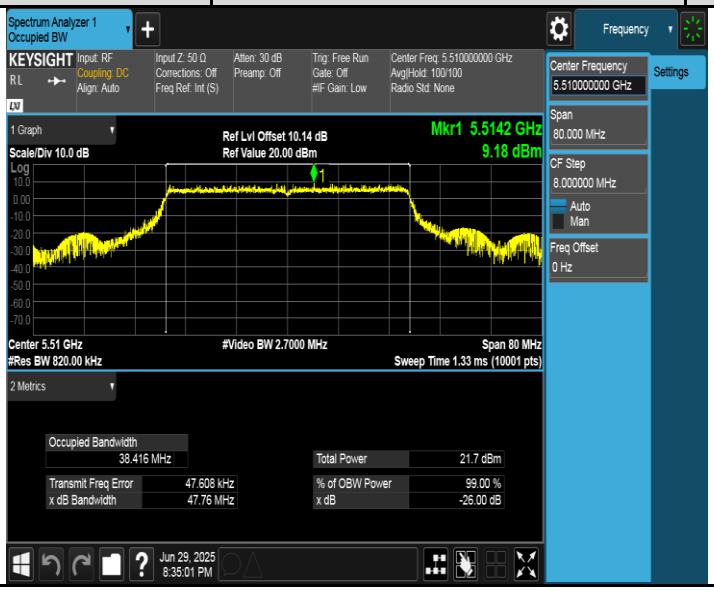
Test Mode	Test Channel	Verdict
11ax HE40	5310	PASS



Test Mode	Test Channel	Verdict
11ax HE40	5510	PASS



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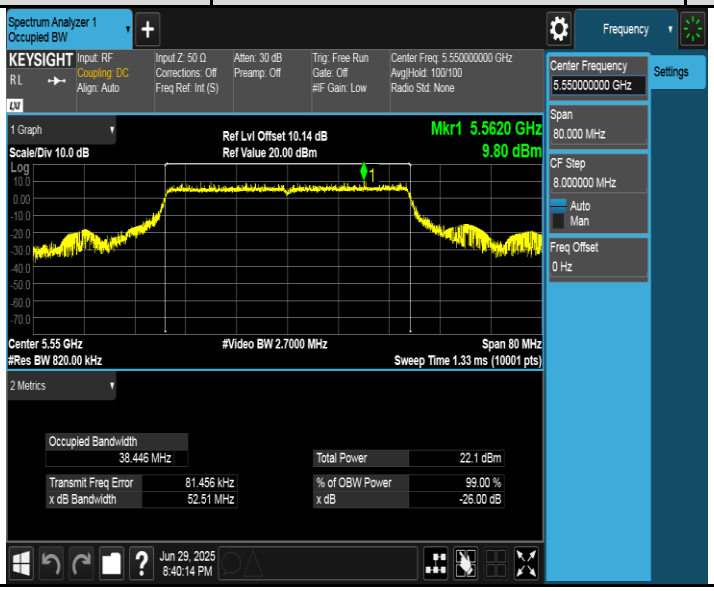
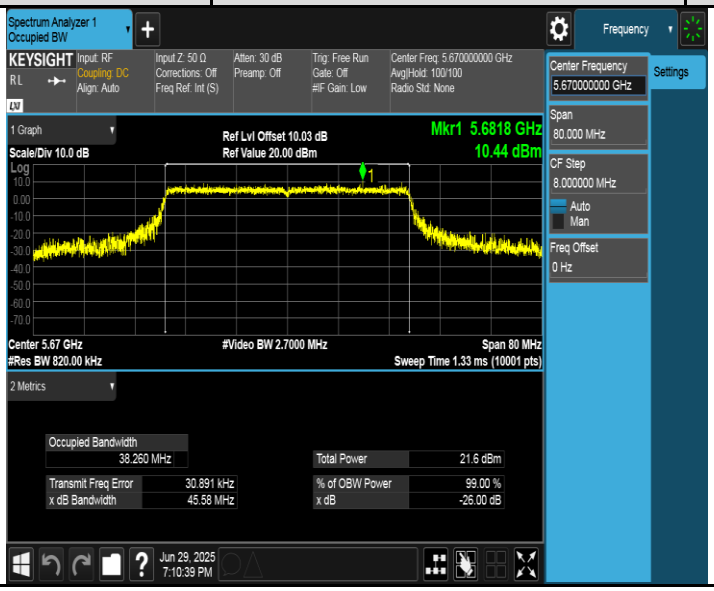
Test Mode	Test Channel	Verdict
11ax HE40	5550	PASS



Test Mode	Test Channel	Verdict
11ax HE40	5670	PASS



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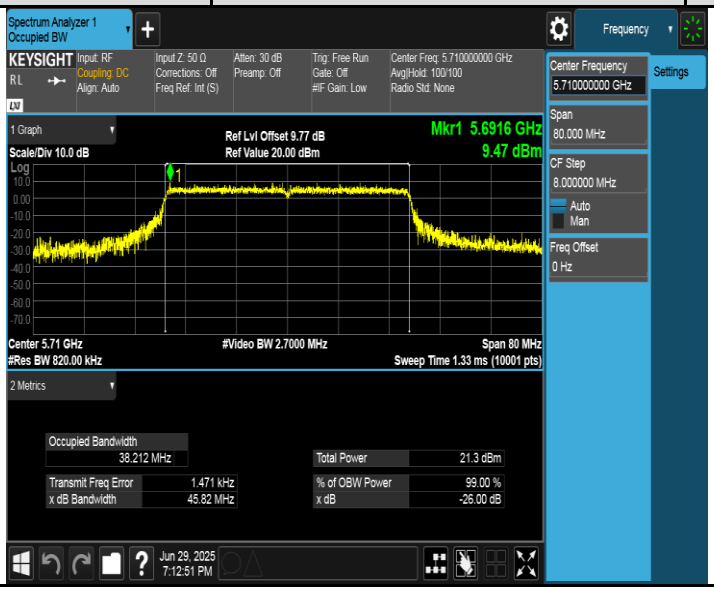
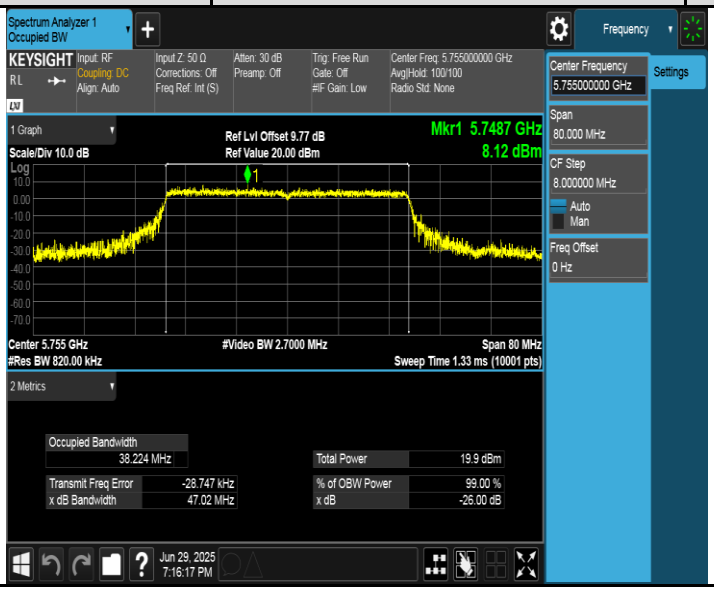
Test Mode	Test Channel	Verdict
11ax HE40	5710	PASS



Test Mode	Test Channel	Verdict
11ax HE40	5755	PASS



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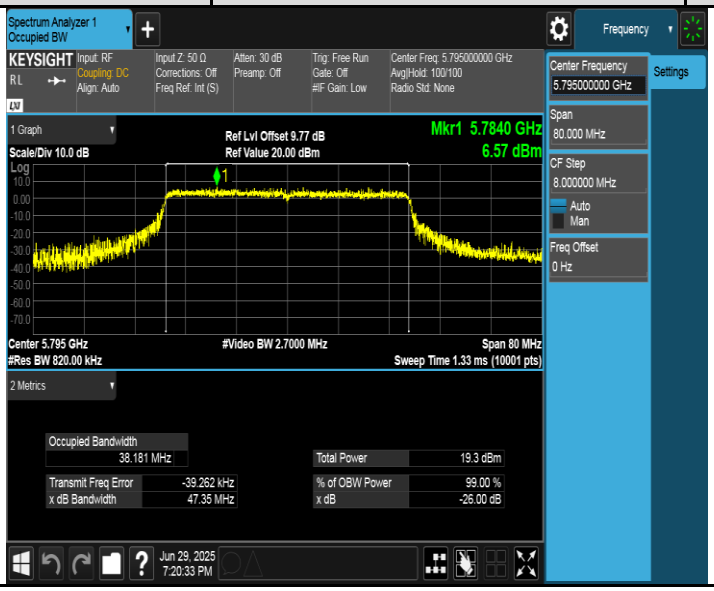
Test Mode	Test Channel	Verdict
11ax HE40	5795	PASS



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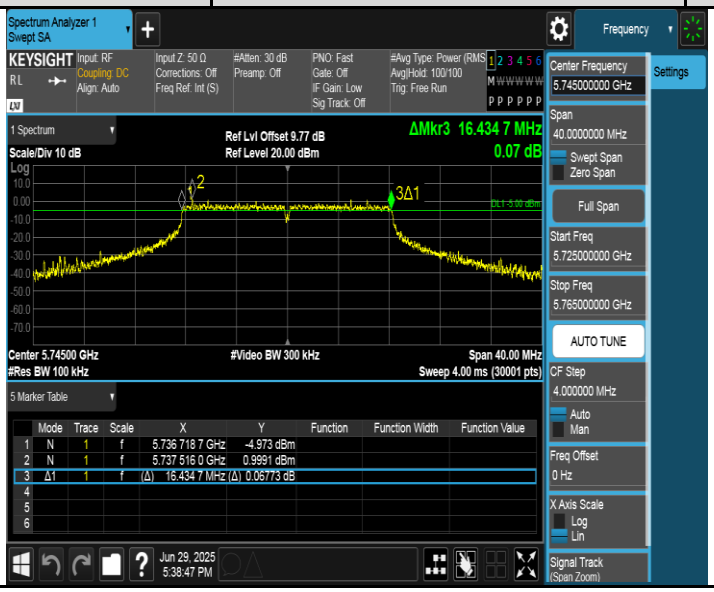
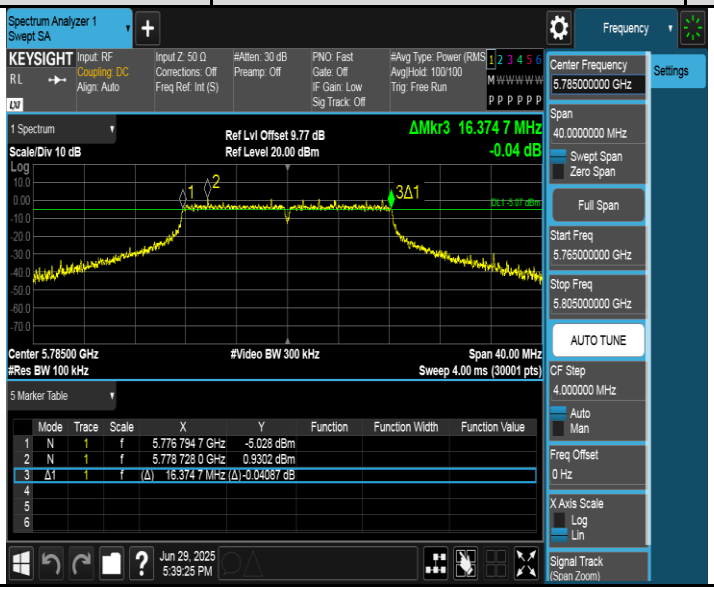
For 6 dB Emission Bandwidth Part:

Test Mode	Test Channel	Verdict
11a	5745	PASS



Test Mode	Test Channel	Verdict
11a	5785	PASS



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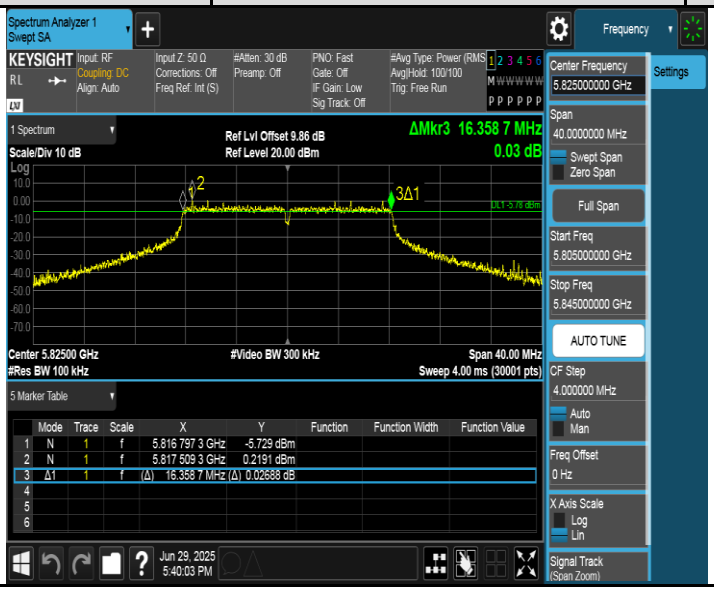
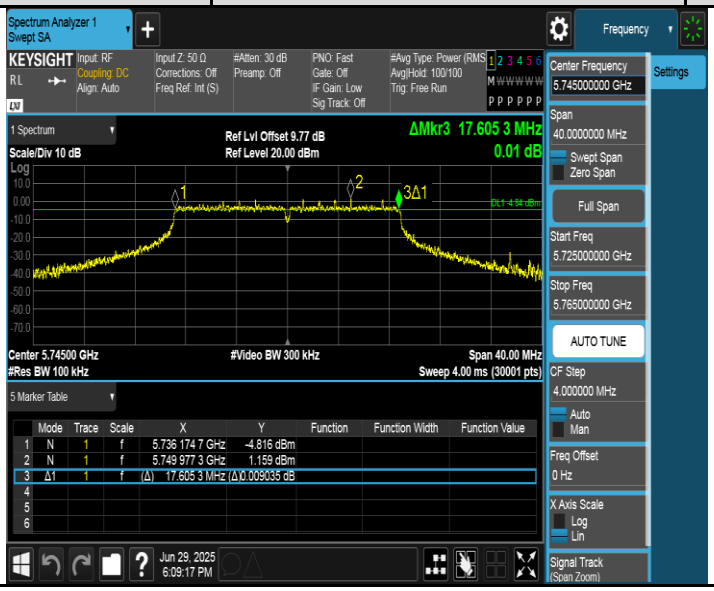
Test Mode	Test Channel	Verdict
11a	5825	PASS



Test Mode	Test Channel	Verdict
11ac VHT20	545	PASS



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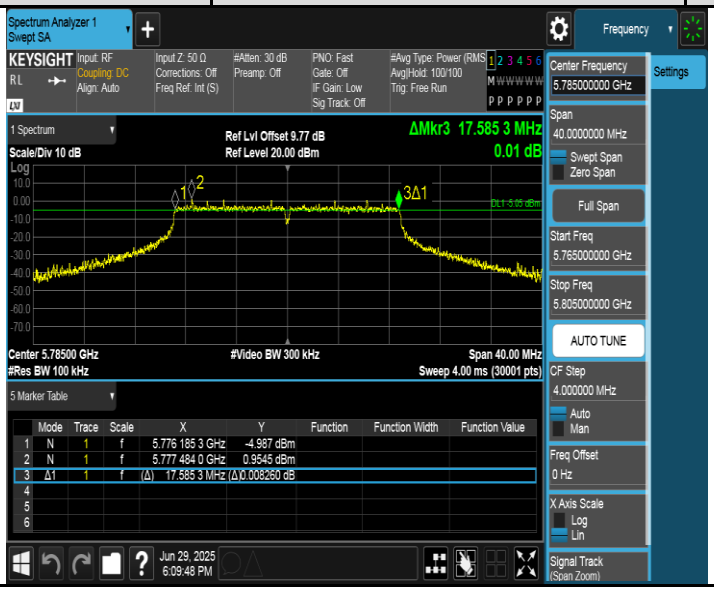
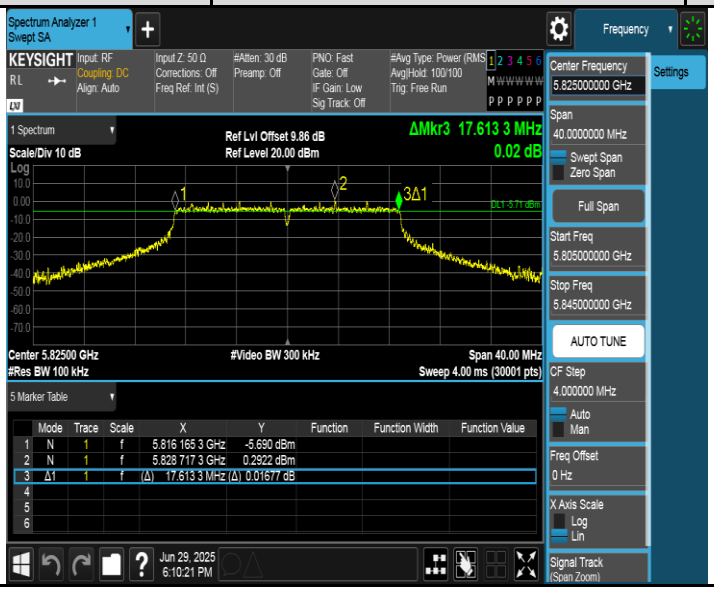
Test Mode	Test Channel	Verdict
11ac VHT20	5785	PASS



Test Mode	Test Channel	Verdict
11ac VHT20	5825	PASS



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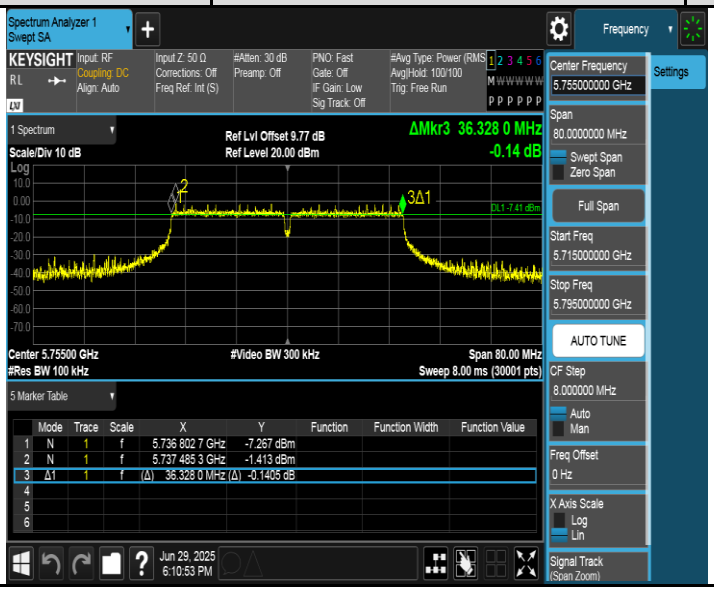
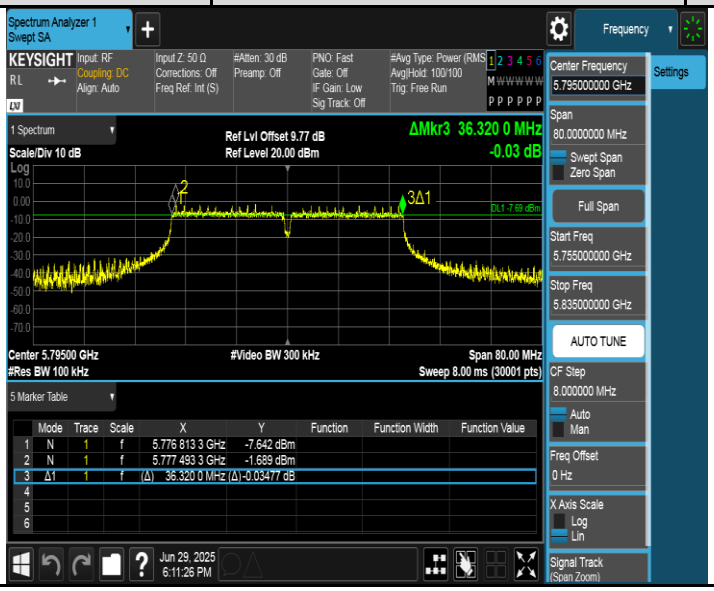
Test Mode	Test Channel	Verdict
11ac VHT40	5755	PASS



Test Mode	Test Channel	Verdict
11ac VHT40	5795	PASS



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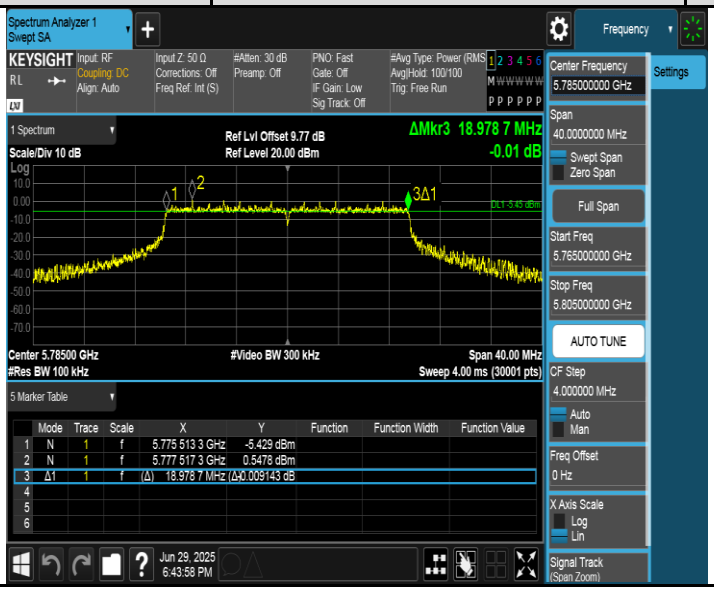
Test Mode	Test Channel	Verdict
11ac VHT20	5745	PASS

Test Mode	Test Channel	Verdict
11ax HE20	5785	PASS



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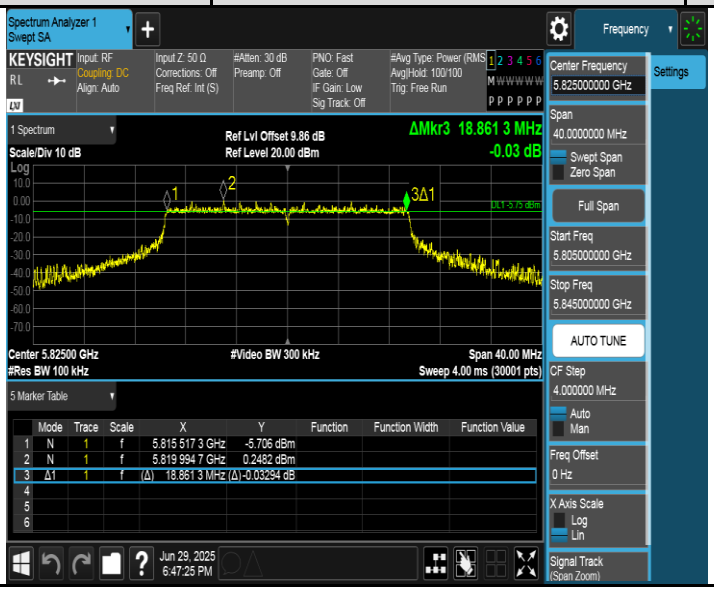
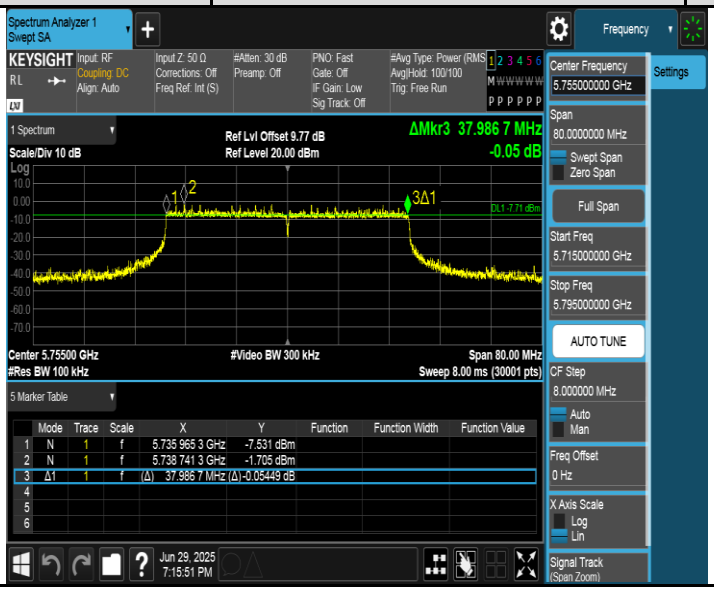
Test Mode	Test Channel	Verdict
11ax HE20	5825	PASS



Test Mode	Test Channel	Verdict
11ax HE40	5755	PASS



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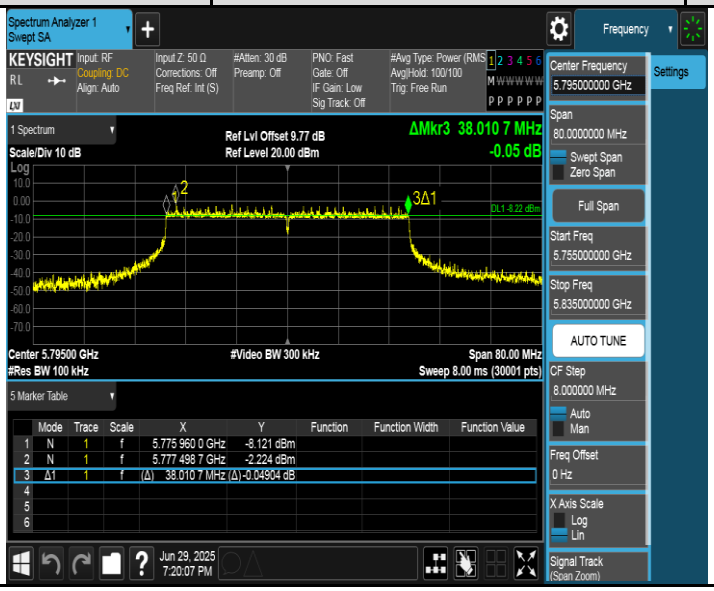
Test Mode	Test Channel	Verdict
11ax HE40	5795	PASS



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6.3. MAXIMUM CONDUCTED AVERAGE OUTPUT POWER

LIMITS

47 CFR FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	☐ Outdoor Access Point: 1 W (30 dBm) ☐ Indoor Access Point: 1 W (30 dBm) ☐ Fixed Point-To-Point Access Points: 1 W (30 dBm) ☒ Client Devices: 250 mW (24 dBm)	5150 ~ 5250
	Shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.	5250 ~ 5350 5470 ~ 5725
	Shall not exceed 1 Watt (30 dBm).	5725 ~ 5850

ISED RSS-247 ISSUE 3		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power or e.i.r.p.	The maximum e.i.r.p. shall not exceed 200 mW (23 dBm) or 10 + 10 $\log_{10}$B, dBm, whichever power is less. B is the 99 % emission bandwidth in megahertz.	5150 ~ 5250
	a. The maximum conducted output power shall not exceed 250 mW (24 dBm) or 11 + 10 $\log_{10}$B dBm, whichever is less. b. The maximum e.i.r.p. shall not exceed 1.0 W (30 dBm) or 17 + 10 $\log_{10}$B dBm, whichever is less. B is the 99 % emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.	5250 ~ 5350 5470 ~ 5600 5650 ~ 5725
	Shall not exceed 1 Watt (30 dBm). The e.i.r.p. shall not exceed 4 W	5725 ~ 5850

Note:
The above limits are based upon the maximum antenna gain does not exceed 6 dBi.
If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.E.

Method SA-2 (trace averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction.):
(a) Measure the duty cycle D of the transmitter output signal.
(b) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal.
(c) Set RBW = 1 MHz.
(d) Set VBW ≥ 3 MHz.
(e) Number of points in sweep ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
(f) Sweep time = auto.
(g) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
(h) Do not use sweep triggering. Allow the sweep to "free run."
(i) Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.
j) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.
k) Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add [10 log (1 / 0.25)] = 6 dB if the duty cycle is 25%.

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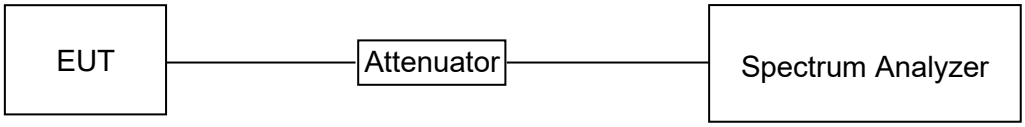
TEST SETUP



TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests
Relative Humidity	60%
Atmospheric Pressure:	101kPa
Temperature	22.2°C
Test Voltage	AC 120V
Test Date	06/08/2025 - 06/30/2025

TEST RESULT TABLE

Mode	Frequency	Measurement Output Power	Duty Cycle Correction Factor	Average Conducted Output Power	FCC Power Limit	ISED Power Limit	Antenna Gain	EIRP	ISED EIRP Limit
	MHz	dBm	dB	dBm	dBm	dBm	dBi	dBm	dBm
11a	5180	11.18	0.22	11.40	24.00	/	1.90	13.30	22.39
	5200	11.25	0.22	11.47	24.00	/	1.90	13.37	22.40
	5240	10.91	0.22	11.13	24.00	/	1.90	13.03	22.42
	5260	11.05	0.22	11.27	24.00	23.39	1.90	13.17	29.39
	5280	11.31	0.22	11.53	24.00	23.40	1.90	13.43	29.40
	5320	11.60	0.22	11.82	24.00	23.38	1.90	13.72	29.38
	5500	12.38	0.22	12.60	24.00	23.45	1.90	14.50	29.45
	5580	11.36	0.22	11.58	24.00	23.46	1.90	13.48	29.46
	5700	11.27	0.22	11.49	24.00	23.43	1.90	13.39	29.43
	5720_ UNII-2C	10.25	0.22	10.47	23.62	22.40	1.90	12.37	28.40
	5720_ UNII-3	4.02	0.22	4.24	30.00	/	1.90	6.14	36.00
	5745	11.75	0.22	11.97	30.00	/	1.90	13.87	36.00
	5785	11.09	0.22	11.31	30.00	/	1.90	13.21	36.00
	5825	10.80	0.22	11.02	30.00	/	1.90	12.92	36.00

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