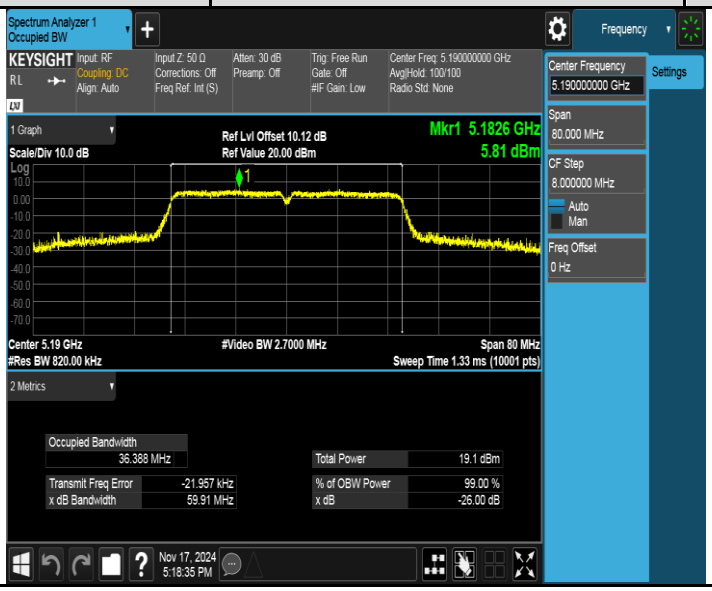
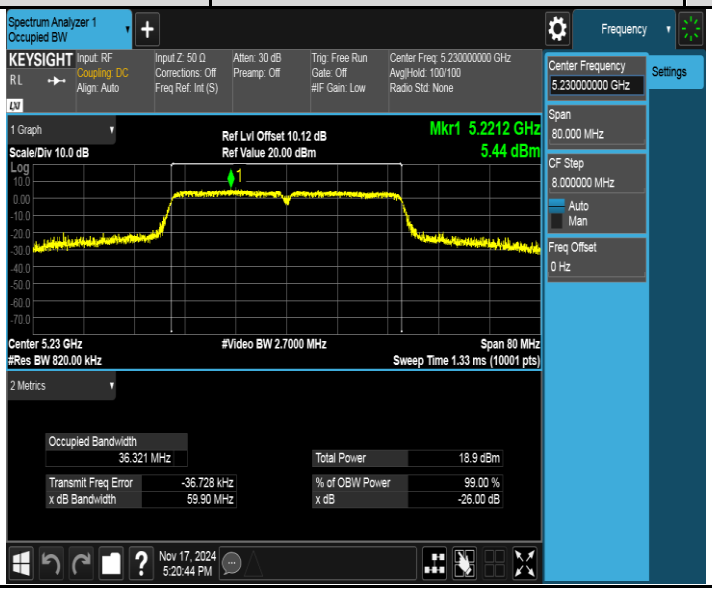
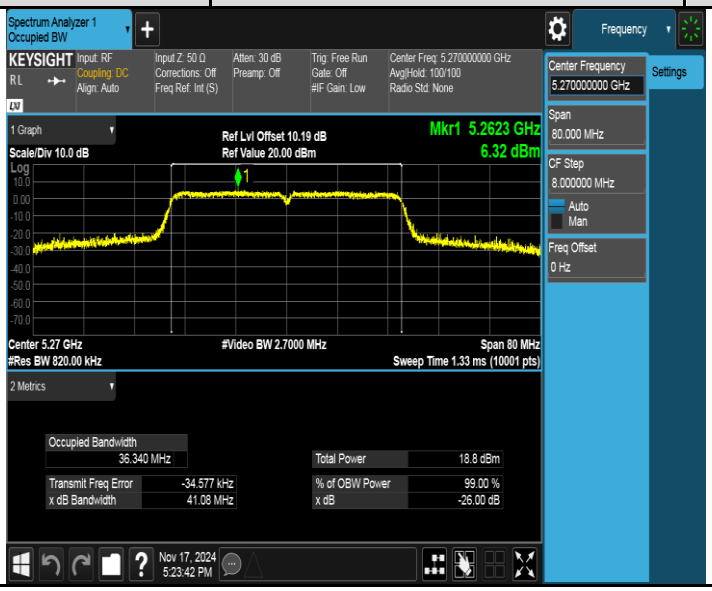
Test Mode	Test Channel	Verdict
11ac VHT40	5190	PASS



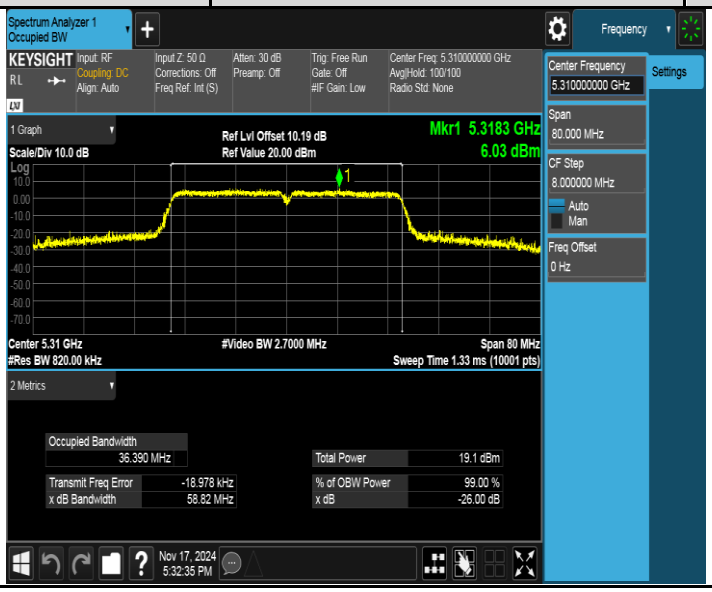
Test Mode	Test Channel	Verdict
11ac VHT40	5230	PASS



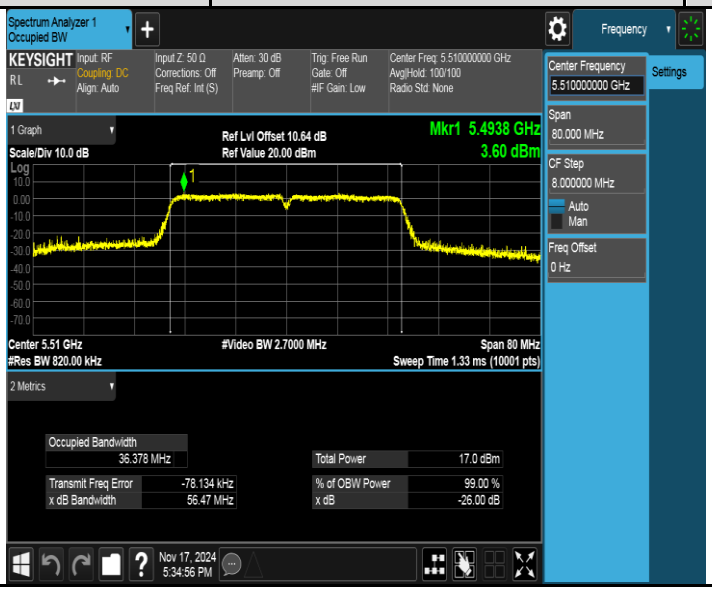
Test Mode	Test Channel	Verdict
11ac VHT40	5270	PASS



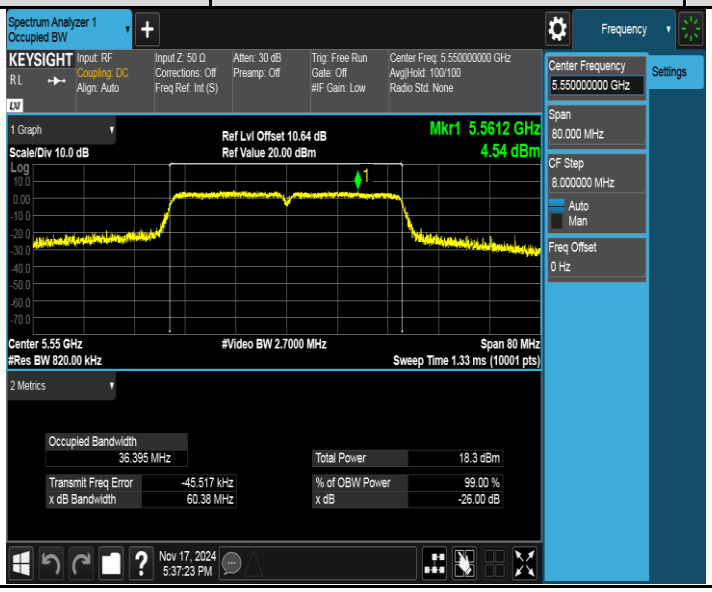
Test Mode	Test Channel	Verdict
11ac VHT40	5310	PASS



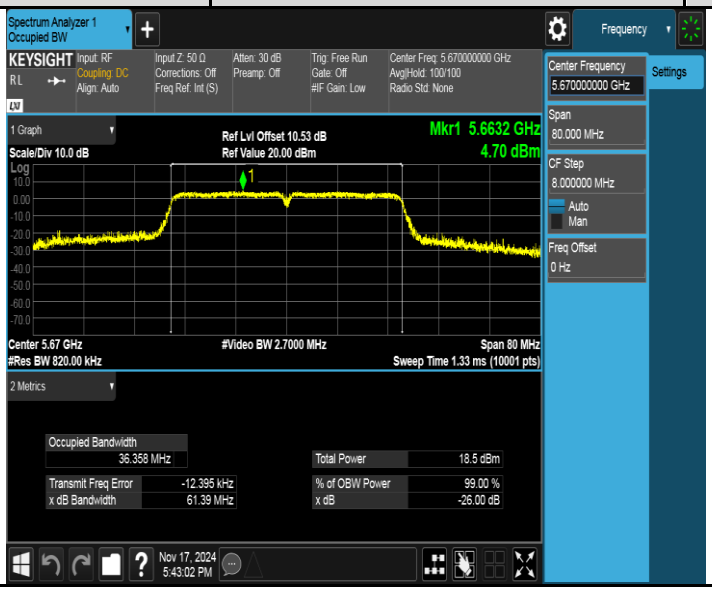
Test Mode	Test Channel	Verdict
11ac VHT40	5510	PASS



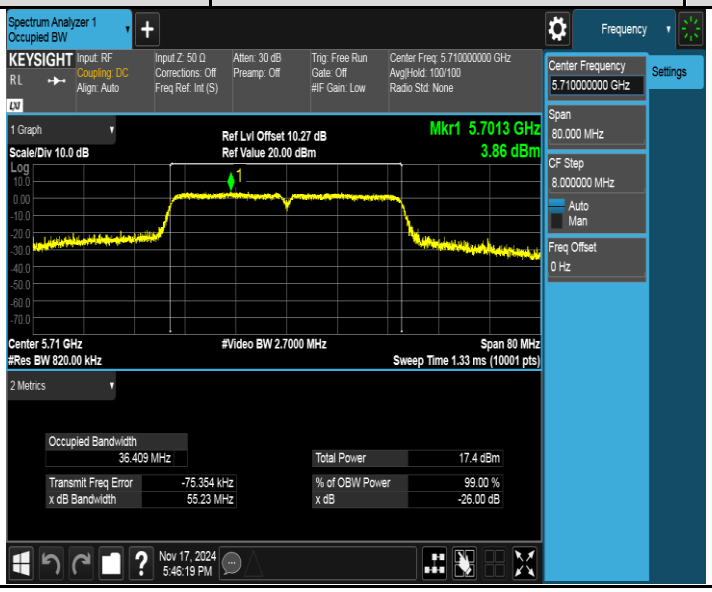
Test Mode	Test Channel	Verdict
11ac VHT40	5550	PASS



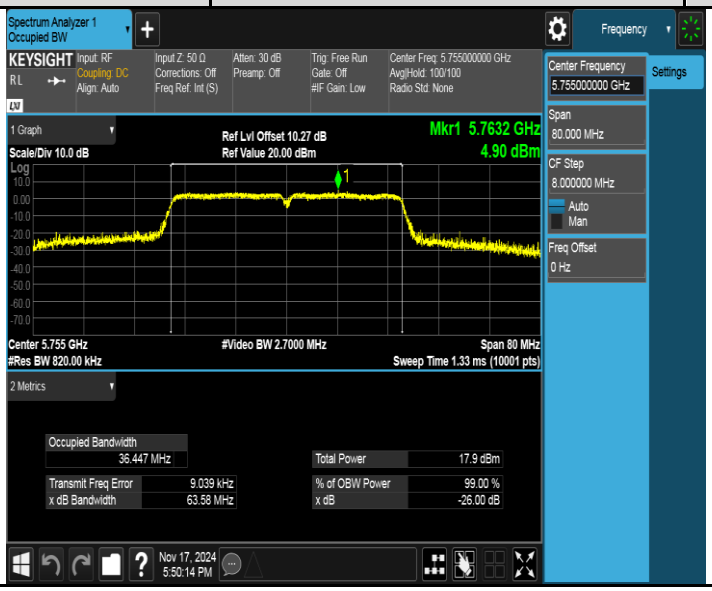
Test Mode	Test Channel	Verdict
11ac VHT40	5670	PASS



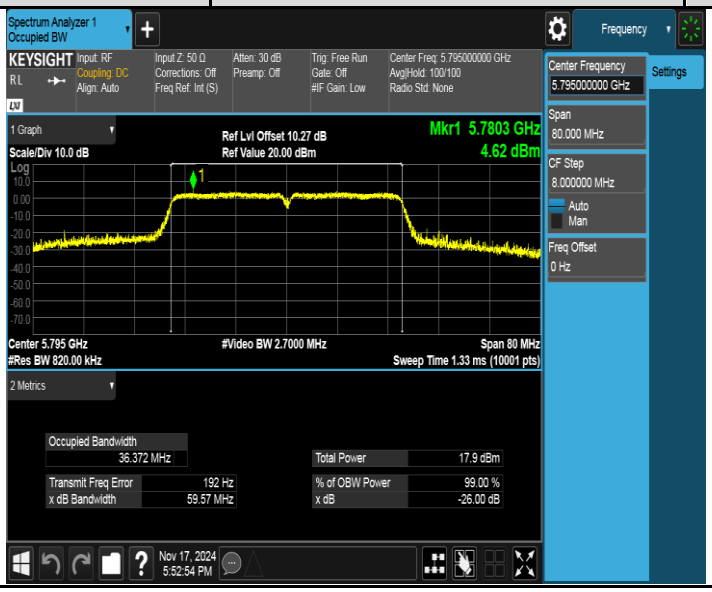
Test Mode	Test Channel	Verdict
11ac VHT40	5710	PASS



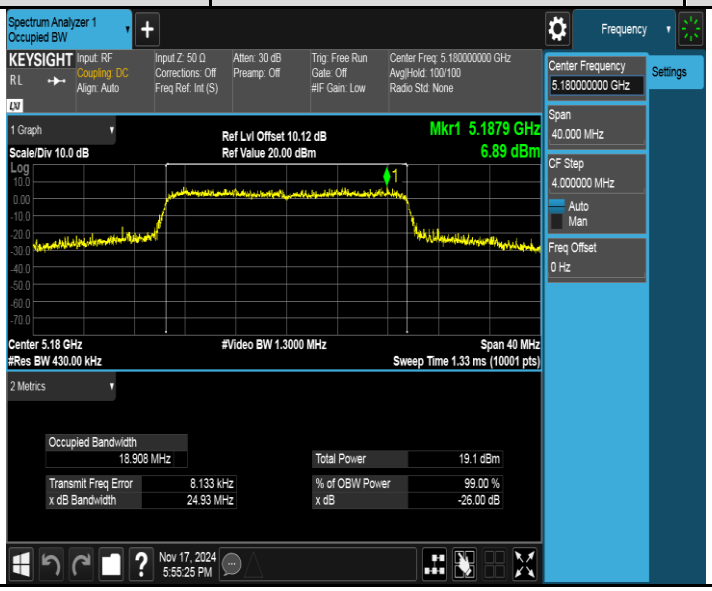
Test Mode	Test Channel	Verdict
11ac VHT40	5755	PASS



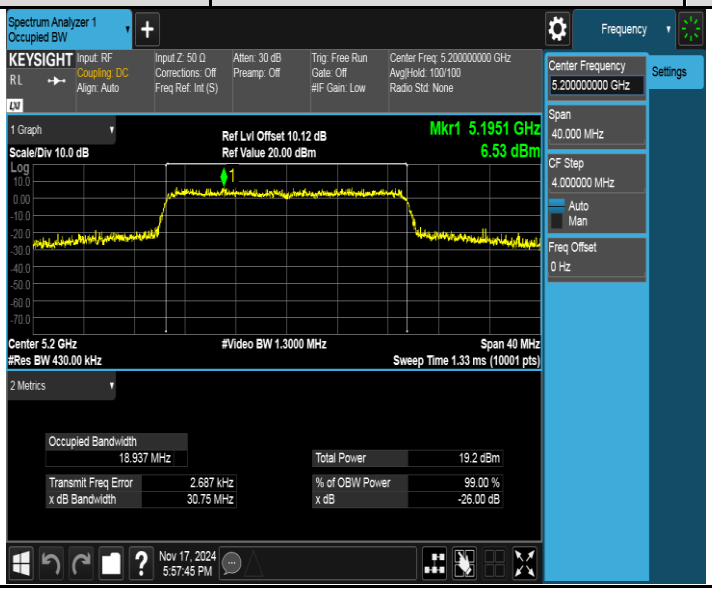
Test Mode	Test Channel	Verdict
11ac VHT40	5795	PASS



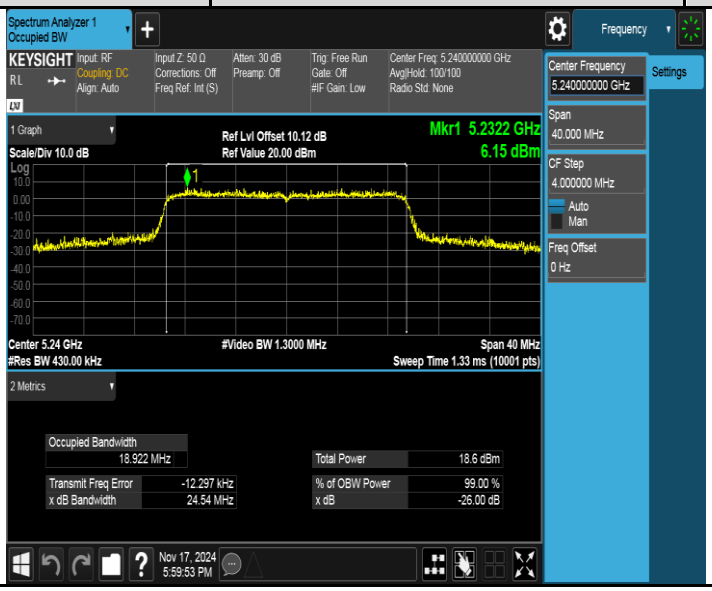
Test Mode	Test Channel	Verdict
11ax HE20	5180	PASS



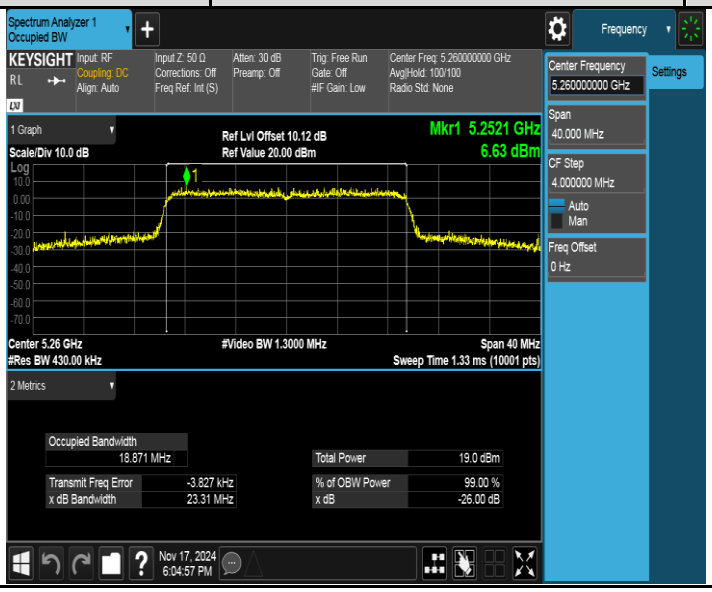
Test Mode	Test Channel	Verdict
11ax HE20	5200	PASS



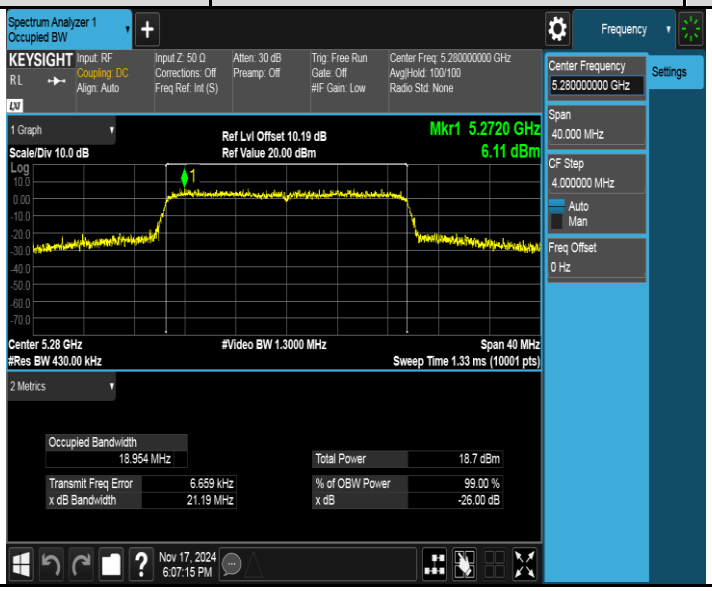
Test Mode	Test Channel	Verdict
11ax HE20	5240	PASS



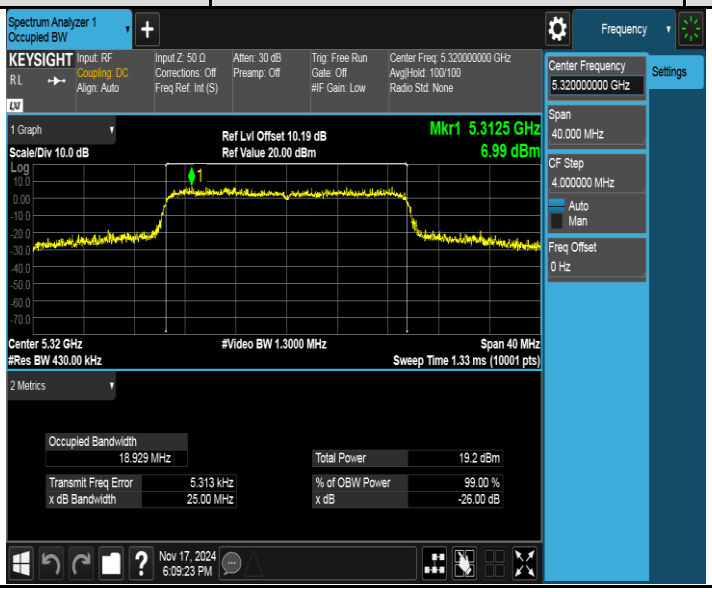
Test Mode	Test Channel	Verdict
11ax HE20	5260	PASS



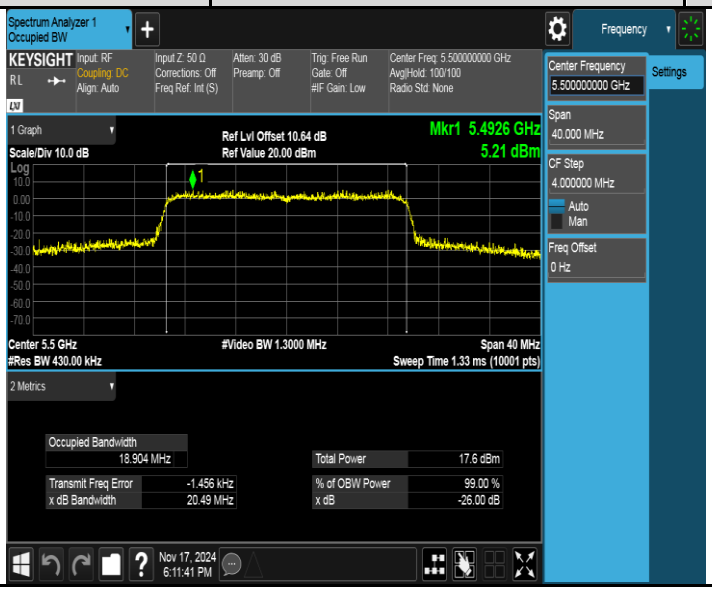
Test Mode	Test Channel	Verdict
11ax HE20	5280	PASS



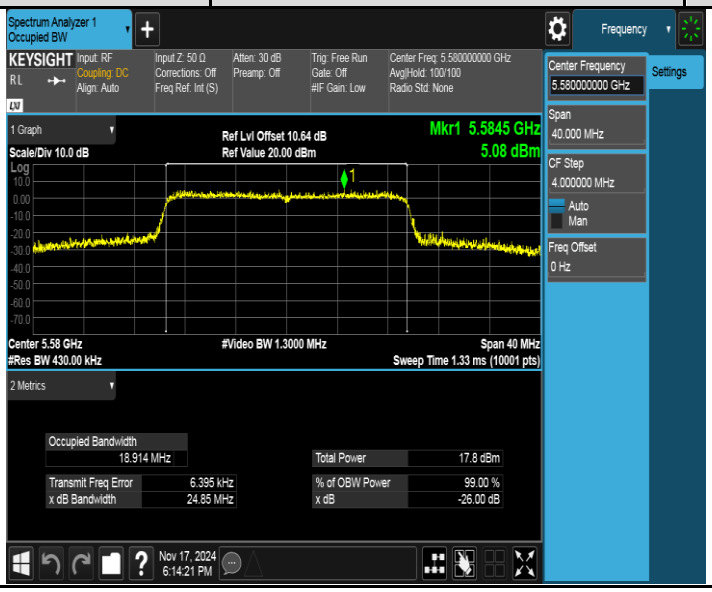
Test Mode	Test Channel	Verdict
11ax HE20	5320	PASS



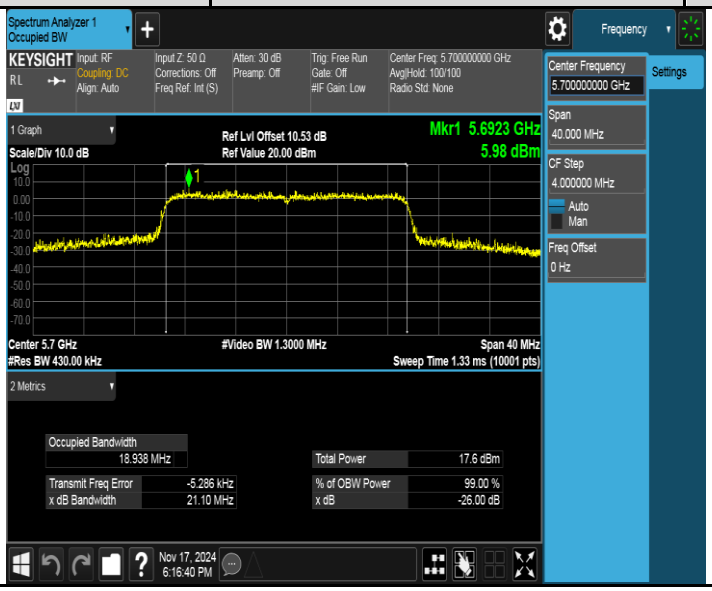
Test Mode	Test Channel	Verdict
11ax HE20	5500	PASS



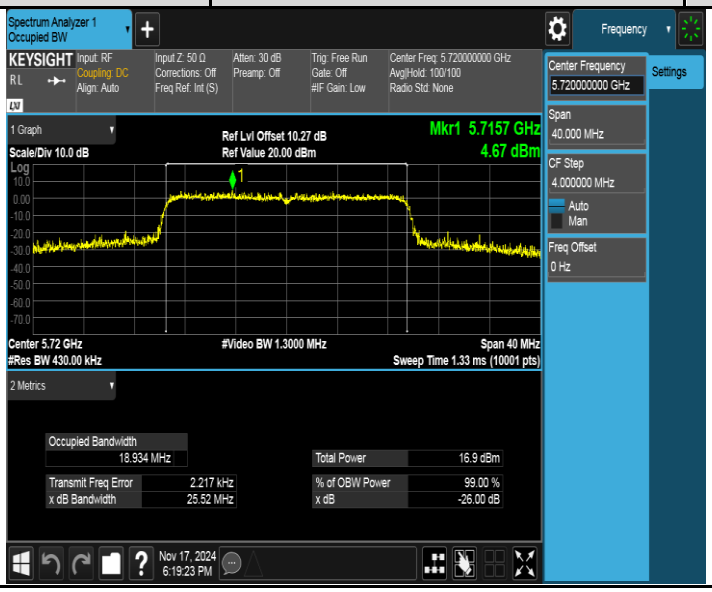
Test Mode	Test Channel	Verdict
11ax HE20	5580	PASS



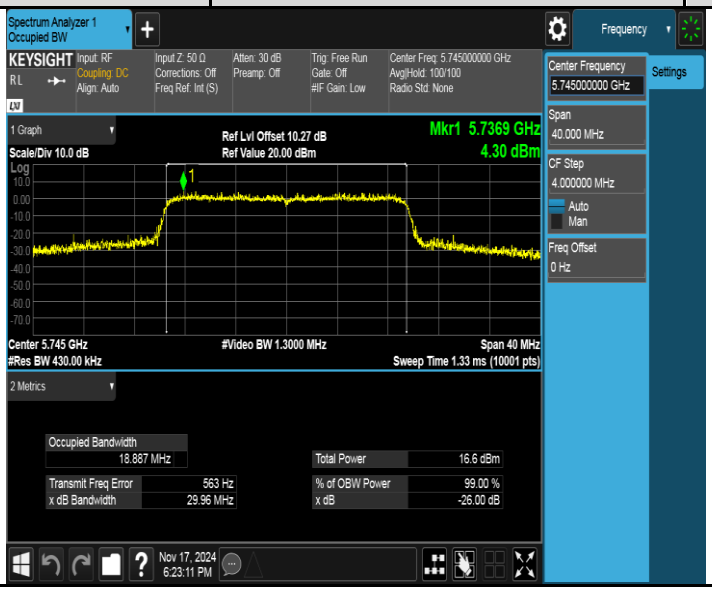
Test Mode	Test Channel	Verdict
11ax HE20	5700	PASS



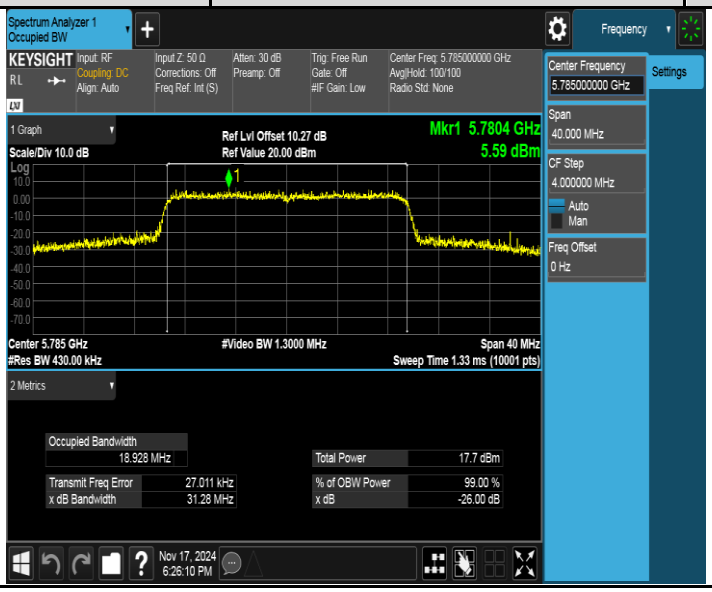
Test Mode	Test Channel	Verdict
11ax HE20	5720	PASS



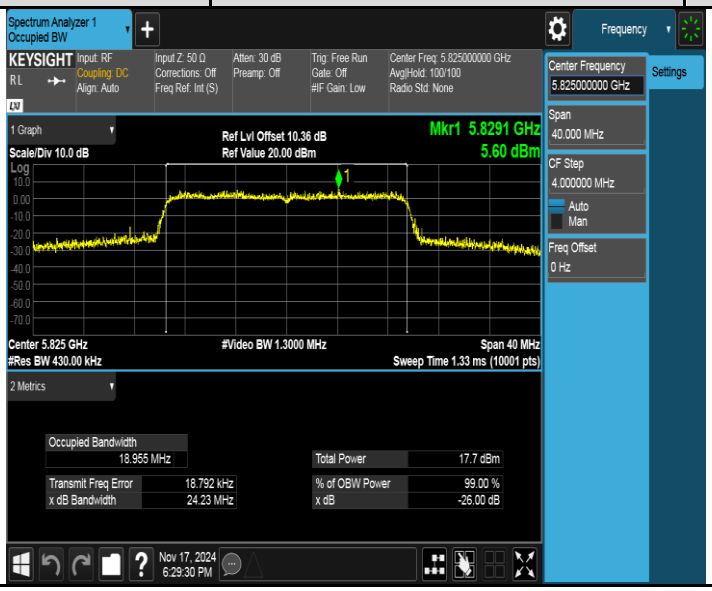
Test Mode	Test Channel	Verdict
11ax HE20	5745	PASS



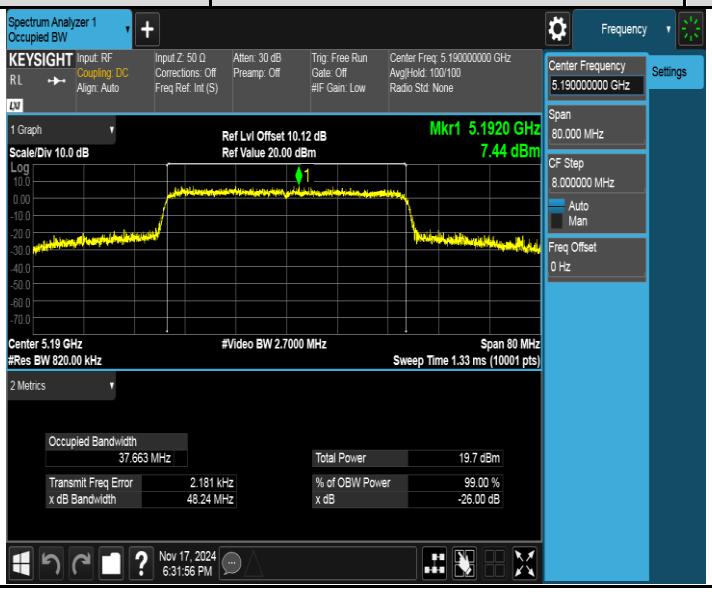
Test Mode	Test Channel	Verdict
11ax HE20	5785	PASS



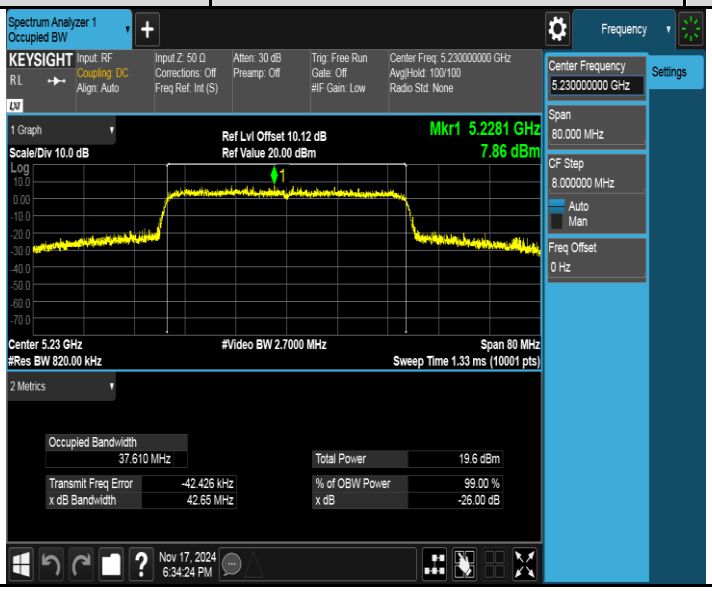
Test Mode	Test Channel	Verdict
11ax HE20	5825	PASS



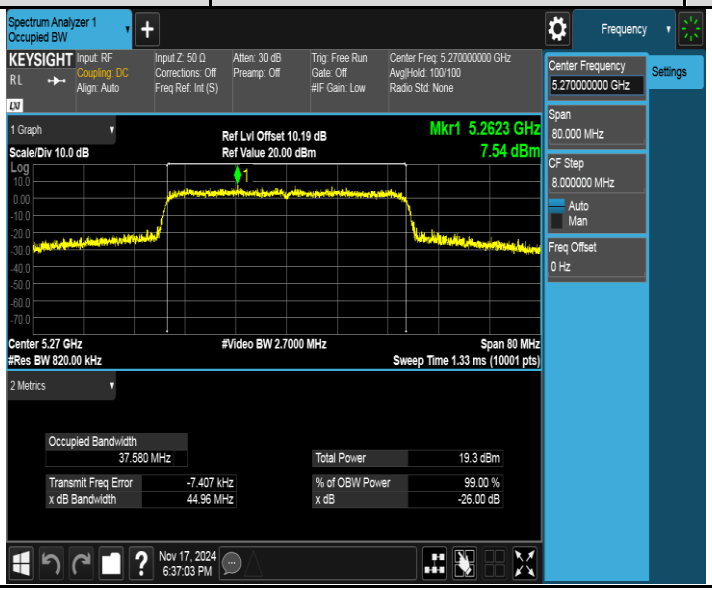
Test Mode	Test Channel	Verdict
11ax HE40	5190	PASS



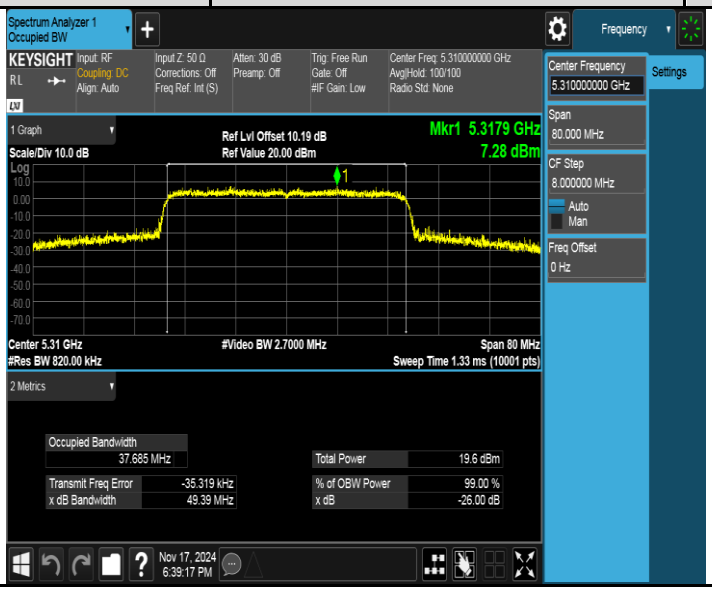
Test Mode	Test Channel	Verdict
11ax HE40	5230	PASS



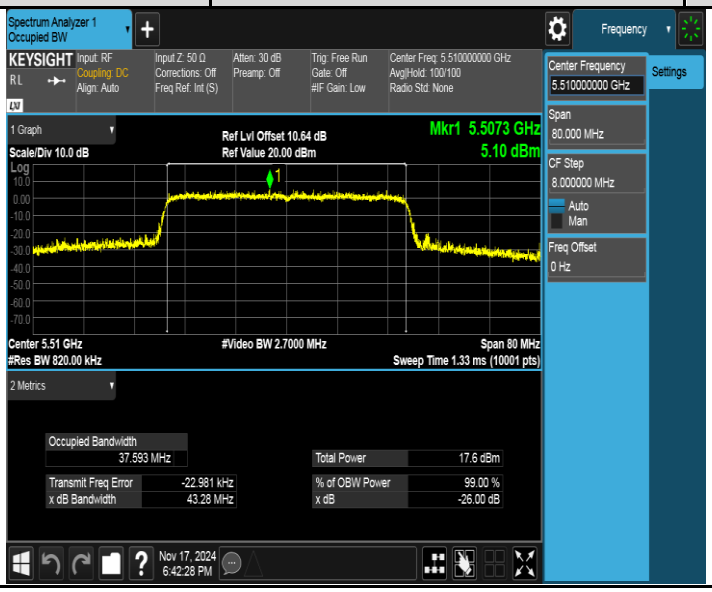
Test Mode	Test Channel	Verdict
11ax HE40	5270	PASS



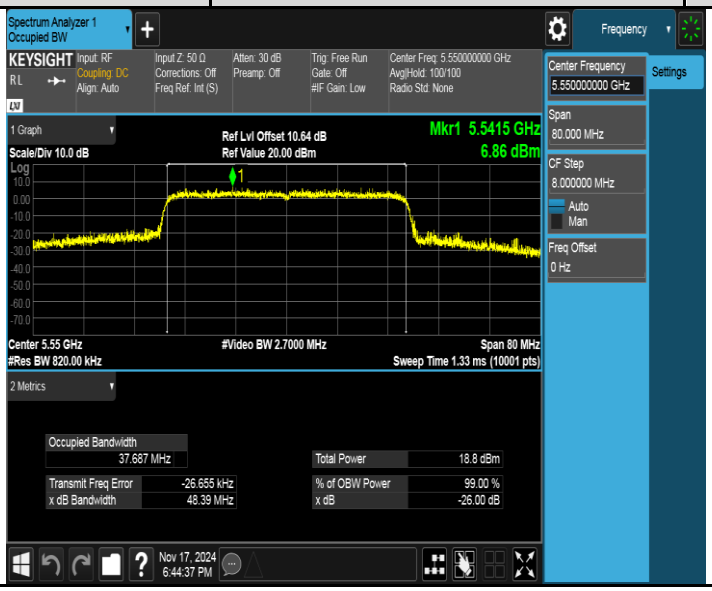
Test Mode	Test Channel	Verdict
11ax HE40	5310	PASS



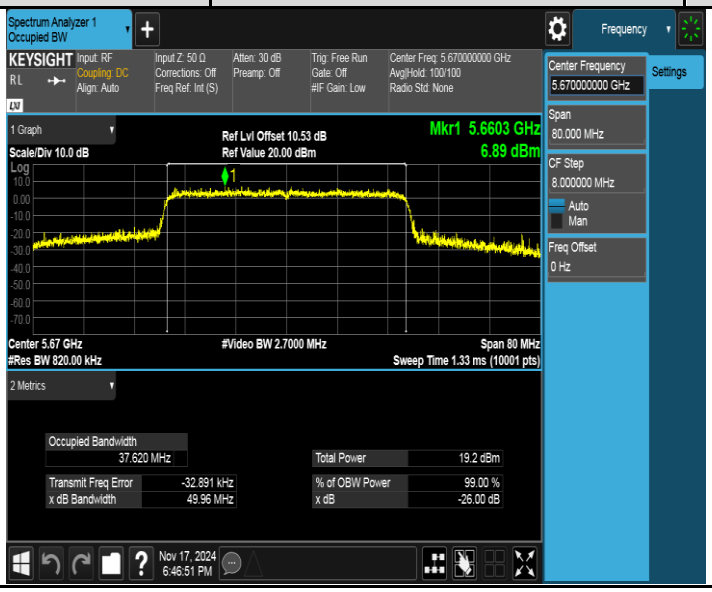
Test Mode	Test Channel	Verdict
11ax HE40	5510	PASS



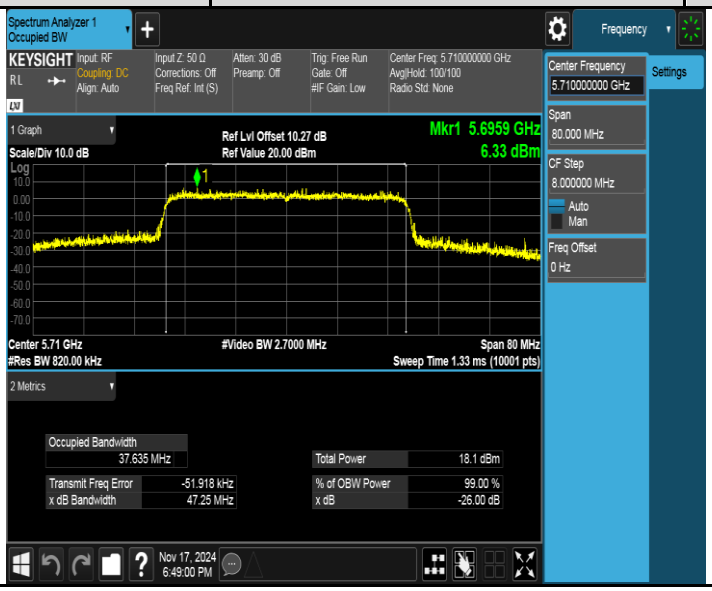
Test Mode	Test Channel	Verdict
11ax HE40	5550	PASS



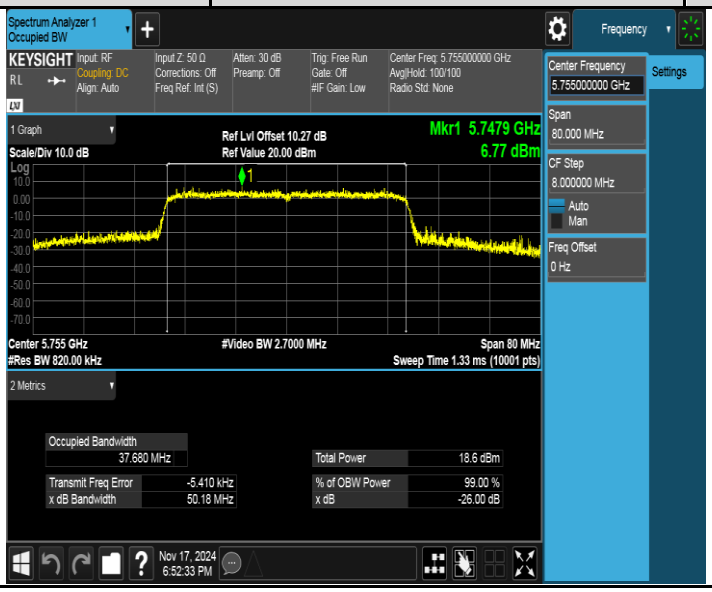
Test Mode	Test Channel	Verdict
11ax HE40	5670	PASS



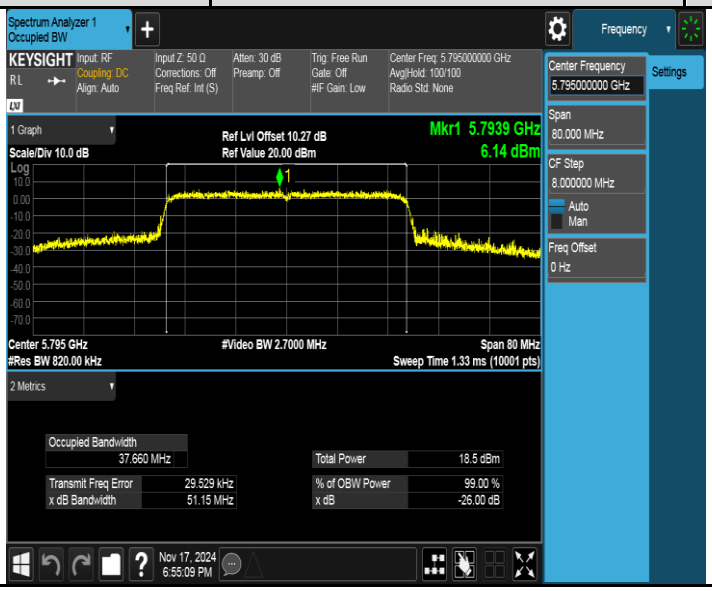
Test Mode	Test Channel	Verdict
11ax HE40	5710	PASS



Test Mode	Test Channel	Verdict
11ax HE40	5755	PASS

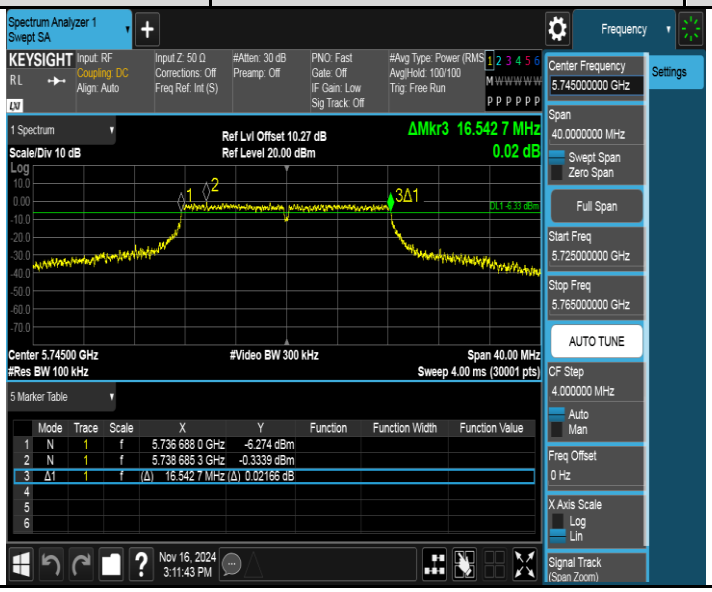


Test Mode	Test Channel	Verdict
11ax HE40	5795	PASS

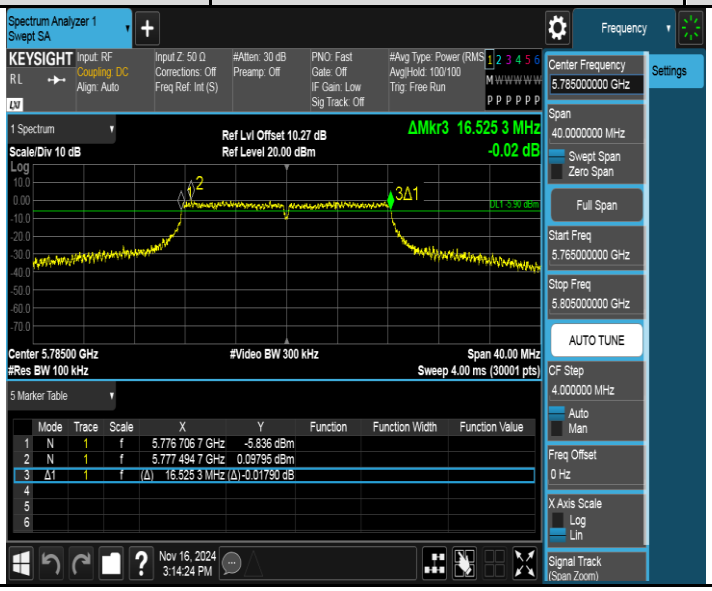


For 6 dB Emission Bandwidth Part:

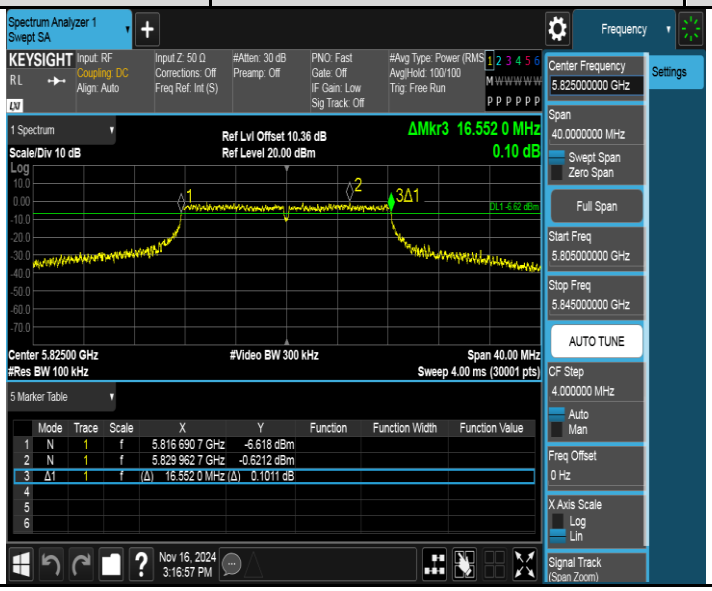
Test Mode	Test Channel	Verdict
11a	5745	PASS



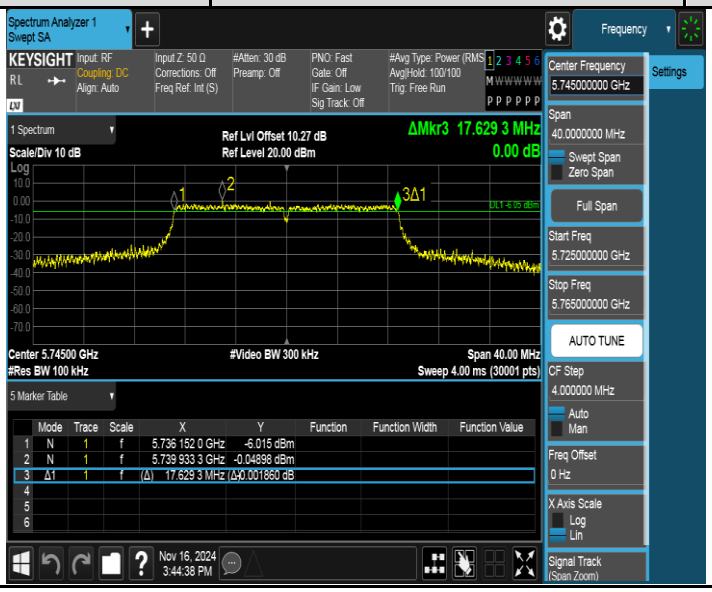
Test Mode	Test Channel	Verdict
11a	5785	PASS



Test Mode	Test Channel	Verdict
11a	5825	PASS



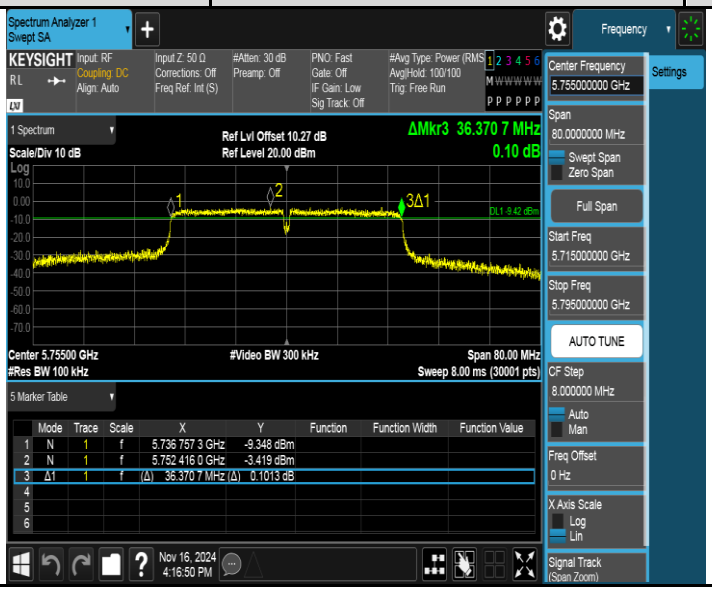
Test Mode	Test Channel	Verdict
11ac VHT20	5745	PASS



Test Mode	Test Channel	Verdict
11ac VHT20	5785	PASS

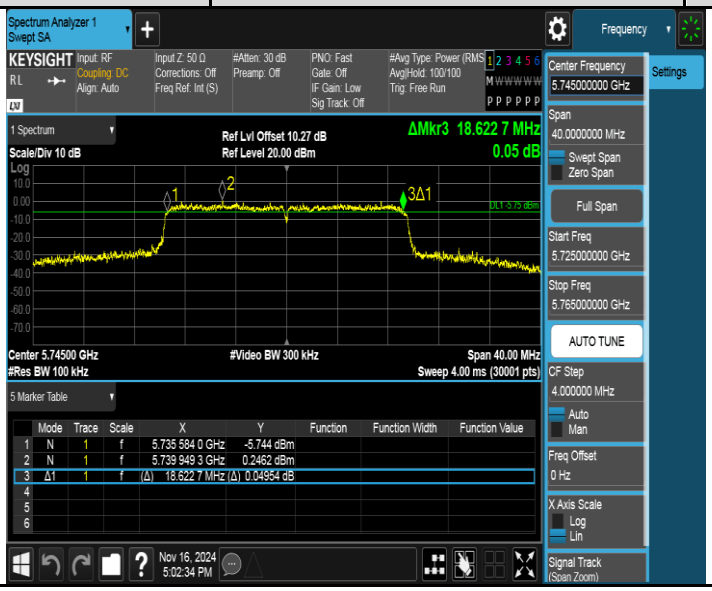
Test Mode	Test Channel	Verdict
11ac VHT20	5825	PASS

Test Mode	Test Channel	Verdict
11ac VHT40	5755	PASS

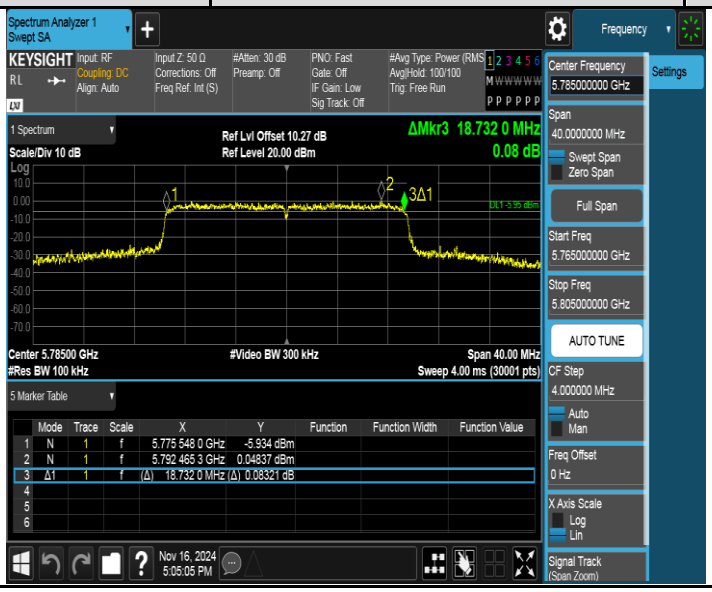


Test Mode	Test Channel	Verdict
11ac VHT40	5795	PASS

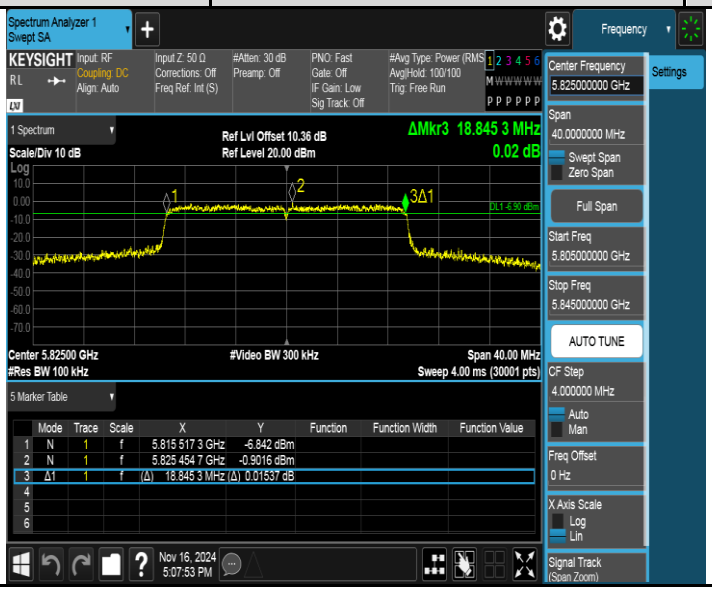
Test Mode	Test Channel	Verdict
11ac VHT20	5745	PASS



Test Mode	Test Channel	Verdict
11ax HE20	5785	PASS



Test Mode	Test Channel	Verdict
11ax HE20	5825	PASS



Test Mode	Test Channel	Verdict
11ax HE40	5755	PASS

Test Mode	Test Channel	Verdict
11ax HE40	5795	PASS

6.3. MAXIMUM CONDUCTED AVERAGE OUTPUT POWER

LIMITS

CFR 47 FCC Part15, Subpart E RSS-247 Clause 6.2		
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

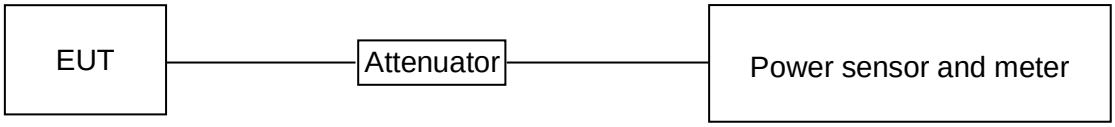
Remark:
The above limits are based upon the maximum antenna gain does not exceed 6 dBi.
If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

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

Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep):
(i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
(ii) Set RBW = 1 MHz.
(iii) Set VBW ≥ 3 MHz.
(iv) Number of points in sweep ≥ 2 × span / RBW. (This ensures that bin-to-bin spacing is ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
(v) Sweep time = auto.
(vi) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
(vii) If transmit duty cycle < 98 %, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
(viii) Trace average at least 100 traces in power averaging (rms) mode.
(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

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	11/17/2024

TEST RESULT TABLE

Mode	Channel	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	13.05	0	13.05	24.00	/	1.08	14.13	22.33
	5200	13.03	0	13.03	24.00	/	1.08	14.11	22.34
	5240	12.52	0	12.52	24.00	/	1.08	13.60	22.32
	5260	12.73	0	12.73	24.00	23.33	1.08	13.81	29.33
	5280	12.52	0	12.52	24.00	23.32	1.08	13.60	29.32
	5320	12.95	0	12.95	24.00	23.35	1.08	14.03	29.35
	5500	10.82	0	10.82	24.00	23.31	1.08	11.90	29.31
	5580	10.96	0	10.96	24.00	23.33	1.08	12.04	29.33
	5700	11.02	0	11.02	24.00	23.32	1.08	12.10	29.32
	5720_ UNII-2C	9.27	0	9.27	23.57	22.32	1.08	10.35	28.32
	5720_ UNII-3	3.29	0	3.29	30.00	/	1.08	4.37	36.00
	5745	10.00	0	10.00	30.00	/	1.08	11.08	36.00
	5785	11.12	0	11.12	30.00	/	1.08	12.20	36.00
	5825	11.07	0	11.07	30.00	/	1.08	12.15	36.00

Mode	Channel	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
11ac VHT20	5180	12.90	0	12.90	24.00	/	1.08	13.98	22.56
	5200	12.94	0	12.94	24.00	/	1.08	14.02	22.58
	5240	12.46	0	12.46	24.00	/	1.08	13.54	22.56
	5260	12.70	0	12.70	24.00	23.56	1.08	13.78	29.56
	5280	12.50	0	12.50	24.00	23.56	1.08	13.58	29.56
	5320	12.96	0	12.96	24.00	23.56	1.08	14.04	29.56
	5500	10.95	0	12.95	24.00	23.55	1.08	14.03	29.55
	5580	11.03	0	11.03	24.00	23.55	1.08	12.11	29.55
	5700	11.03	0	11.03	24.00	23.55	1.08	12.11	29.55
	5720_ UNII-2C	9.25	0	9.25	23.75	22.47	1.08	10.33	28.47
	5720_ UNII-3	3.75	0	3.75	30.00	/	1.08	4.83	36.00
	5745	10.04	0	10.04	30.00	/	1.08	11.12	36.00
	5785	11.13	0	11.13	30.00	/	1.08	12.21	36.00
	5825	11.10	0	11.10	30.00	/	1.08	12.18	36.00

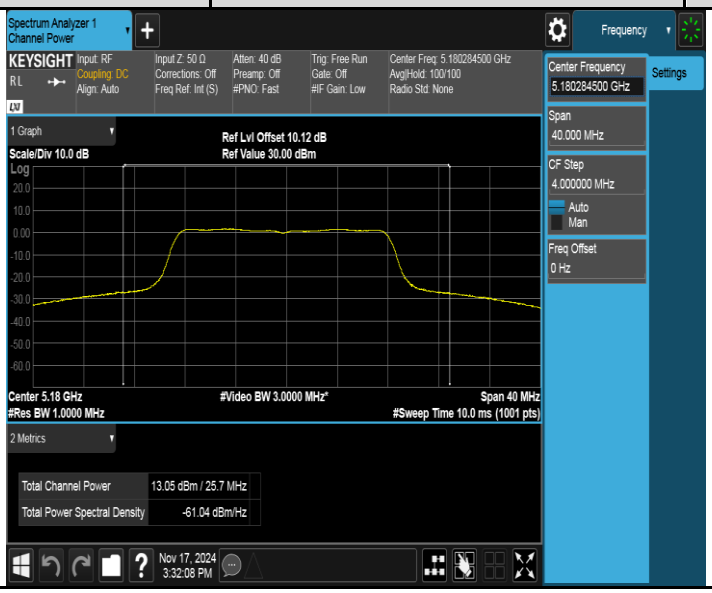
Mode	Channel	Measurement Output Power	Duty Cycle Correction Factor	Average Conducted Output Power	FCC Power Limit	ISED Power Limit	Antenna Gain	EIRP	ISED EIRP Limit
	MHz	dBm	dB	dBm	dBm	dBm	dBi	dBm	dBm
11ac VHT40	5190	12.59	0	12.59	24.00	24.00	1.08	13.67	23.00
	5230	12.55	0	12.55	24.00	24.00	1.08	13.63	23.00
	5270	12.49	0	12.49	24.00	24.00	1.08	13.57	30.00
	5310	13.01	0	13.01	24.00	24.00	1.08	14.09	30.00
	5510	10.55	0	10.55	24.00	24.00	1.08	11.63	30.00
	5550	11.59	0	11.59	24.00	24.00	1.08	12.67	30.00
	5670	11.61	0	11.61	24.00	24.00	1.08	12.69	30.00
	5710_ UNII-2C	10.22	0	10.22	24.00	24.00	1.08	11.30	30.00
	5710_ UNII-3	-1.03	0	-1.03	30.00	/	1.08	0.05	36.00
	5755	10.74	0	10.74	30.00	/	1.08	11.82	36.00
	5795	11.04	0	11.04	30.00	/	1.08	12.12	36.00

Mode	Channel	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
11ax HE20	5180	12.85	0	12.85	24.00	/	1.08	13.93	22.77
	5200	12.90	0	12.90	24.00	/	1.08	13.98	22.77
	5240	12.39	0	12.39	24.00	/	1.08	13.47	22.77
	5260	12.61	0	12.61	24.00	23.76	1.08	13.69	29.76
	5280	12.39	0	12.39	24.00	23.78	1.08	13.47	29.78
	5320	12.90	0	12.90	24.00	23.77	1.08	13.98	29.77
	5500	10.88	0	10.88	24.00	23.77	1.08	11.96	29.77
	5580	10.91	0	10.91	24.00	23.77	1.08	11.99	29.77
	5700	10.92	0	10.92	24.00	23.77	1.08	12.00	29.77
	5720_ UNII-2C	9.09	0	9.09	23.77	22.60	1.08	10.17	28.60
	5720_ UNII-3	3.89	0	3.89	30.00	/	1.08	4.97	36.00
	5745	9.95	0	9.95	30.00	/	1.08	11.03	36.00
	5785	11.02	0	11.02	30.00	/	1.08	12.10	36.00
	5825	10.98	0	10.98	30.00	/	1.08	12.06	36.00

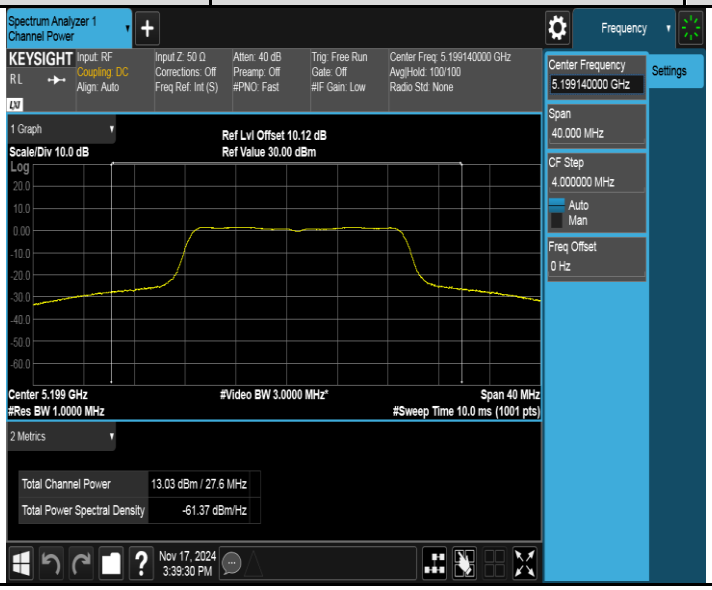
Mode	Channel	Measurement Output Power	Duty Cycle Correction Factor	Average Conducted Output Power	FCC Power Limit	ISED Power Limit	Antenna Gain	EIRP	ISED EIRP Limit
	MHz	dBm	dB	dBm	dBm	dBm	dBi	dBm	dBm
11ax HE40	5190	12.54	0	12.54	24.00	24.00	1.08	13.62	23.00
	5230	12.48	0	12.48	24.00	24.00	1.08	13.56	23.00
	5270	12.43	0	12.43	24.00	24.00	1.08	13.51	30.00
	5310	12.90	0	12.90	24.00	24.00	1.08	13.98	30.00
	5510	10.46	0	10.46	24.00	24.00	1.08	11.54	30.00
	5550	11.54	0	11.54	24.00	24.00	1.08	12.62	30.00
	5670	11.52	0	11.52	24.00	24.00	1.08	12.60	30.00
	5710_ UNII-2C	10.01	0	10.01	24.00	24.00	1.08	11.09	30.00
	5710_ UNII-3	-0.70	0	-0.70	30.00	/	1.08	0.38	36.00
	5755	10.67	0	10.67	30.00	/	1.08	11.75	36.00
	5795	10.97	0	10.97	30.00	/	1.08	12.05	36.00

TEST GRAPHS

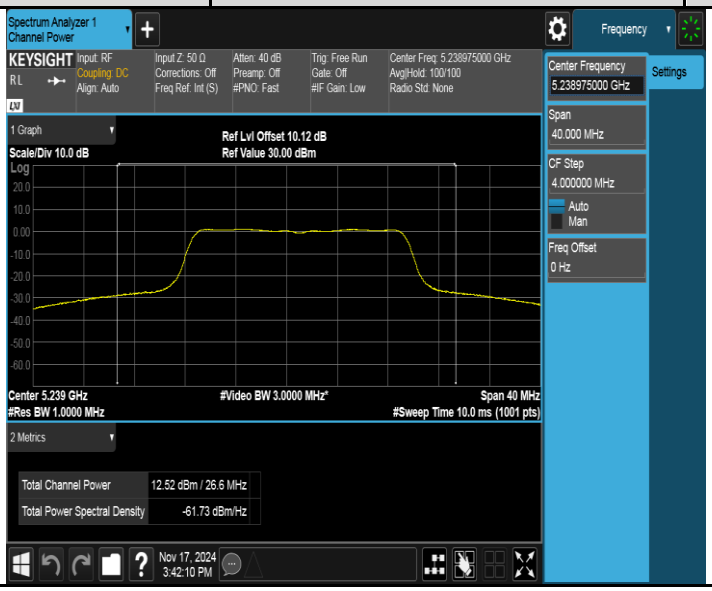
Test Mode	Test Channel	Verdict
11a	5180	PASS



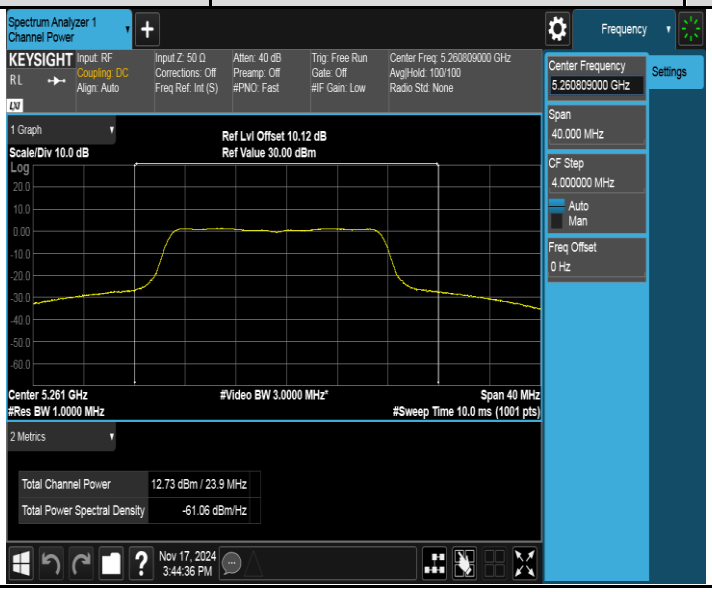
Test Mode	Test Channel	Verdict
11a	5200	PASS



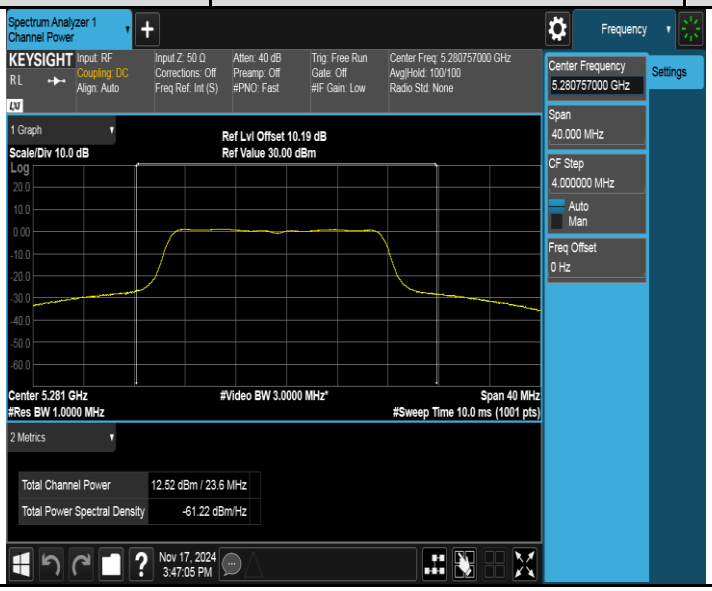
Test Mode	Test Channel	Verdict
11a	5240	PASS



Test Mode	Test Channel	Verdict
11a	5260	PASS



Test Mode	Test Channel	Verdict
11a	5280	PASS



Test Mode	Test Channel	Verdict
11a	5320	PASS