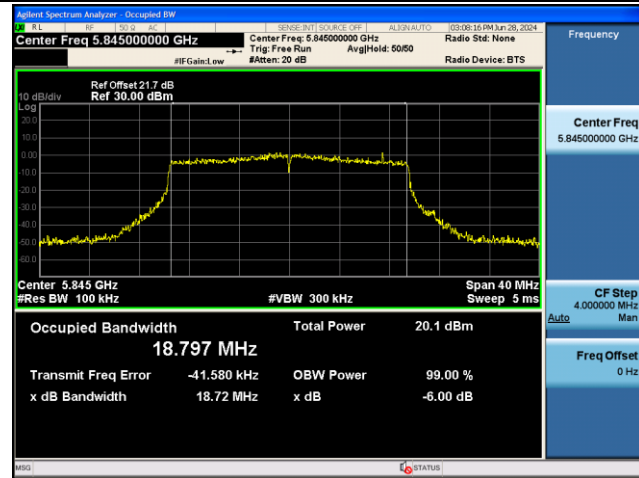
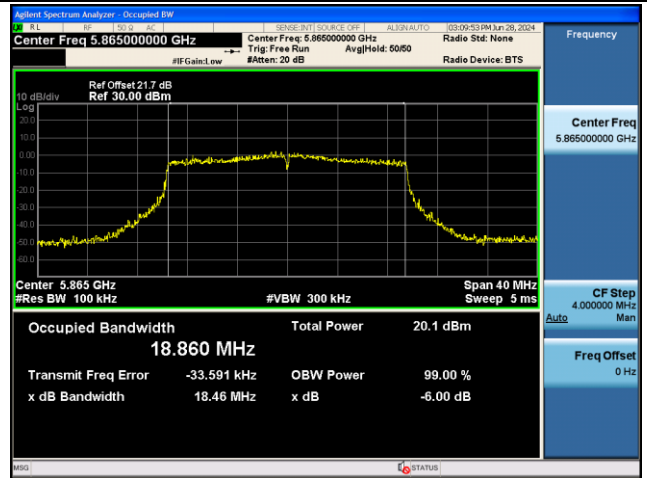


802.11ax-HE20 6dB Bandwidth

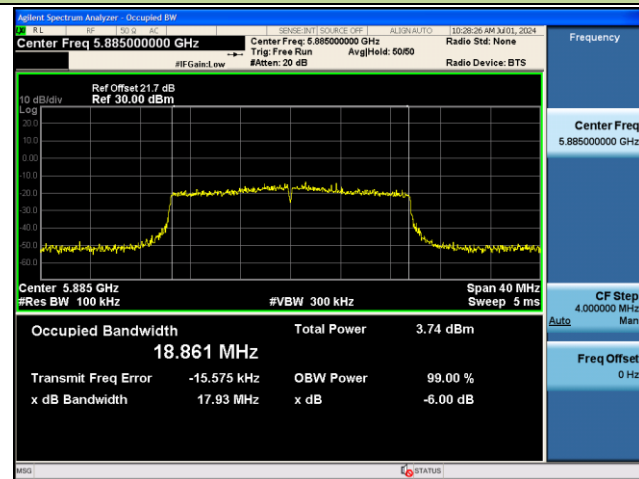
Channel 169 (5845MHz)



Channel 173 (5865MHz)

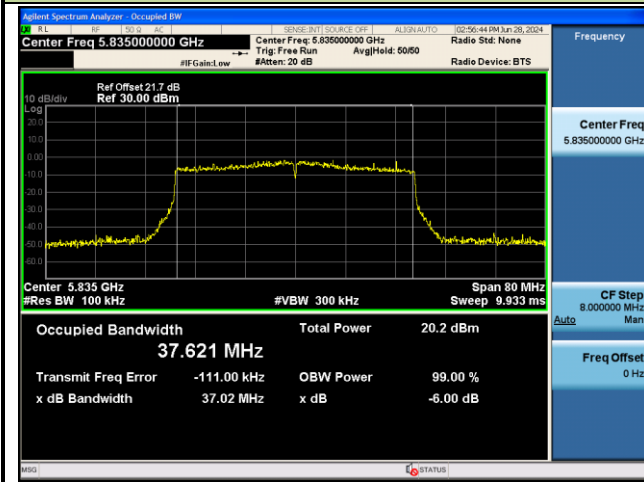


Channel 177 (5885MHz)

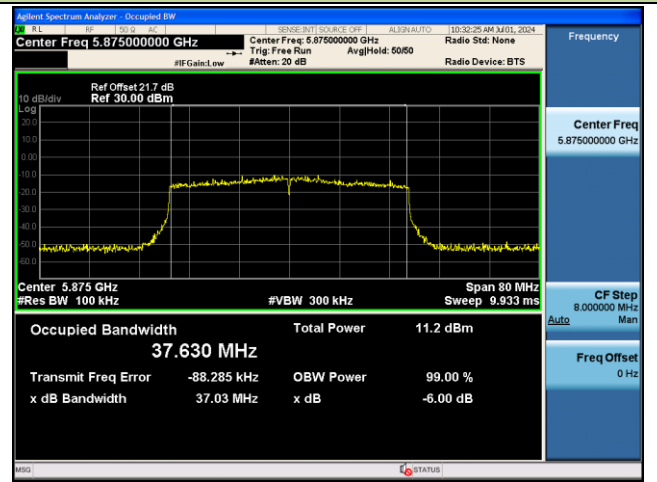


802.11 ax-HE40 6dB Bandwidth

Channel 167 (5835MHz)

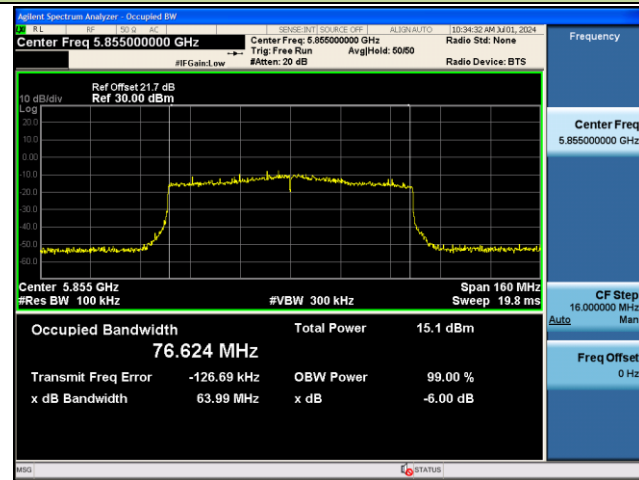


Channel 175 (5875MHz)



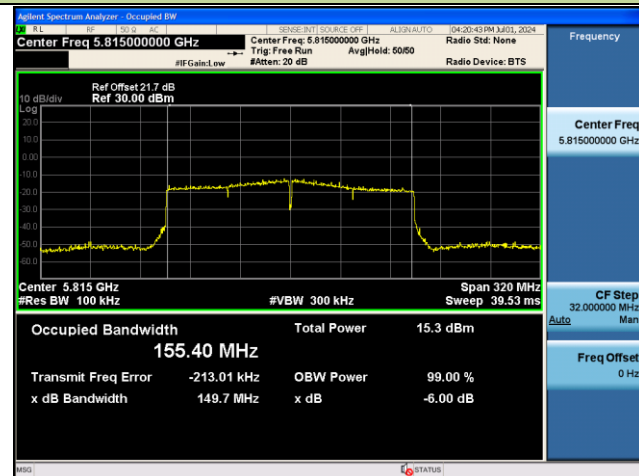
802.11 ax-HE80 6dB Bandwidth

Channel 171 (5855MHz)



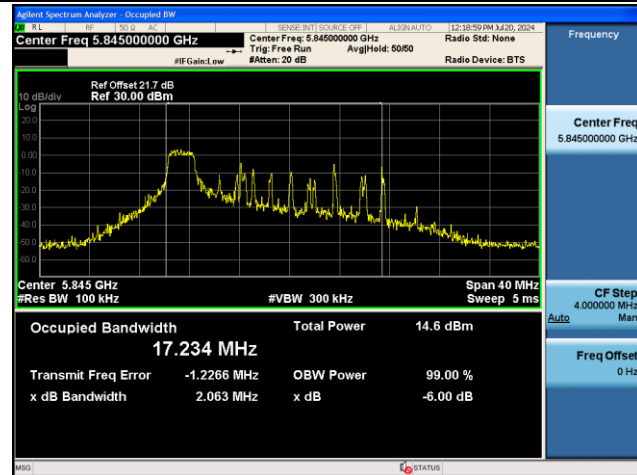
802.11 ax-HE160 6dB Bandwidth

Channel 163 (5815MHz)

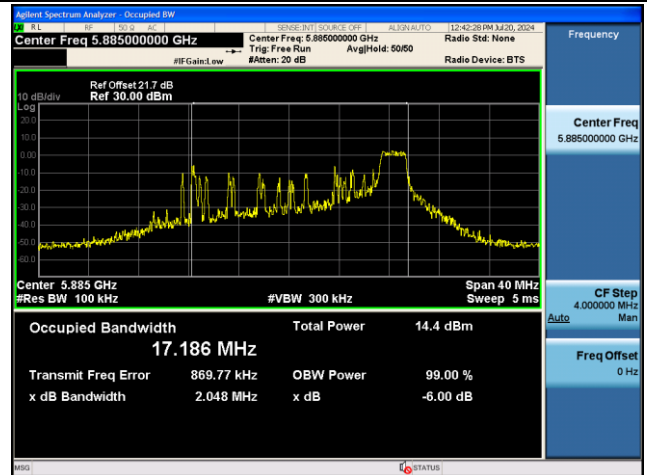


802.11ax-HE20 6dB Bandwidth

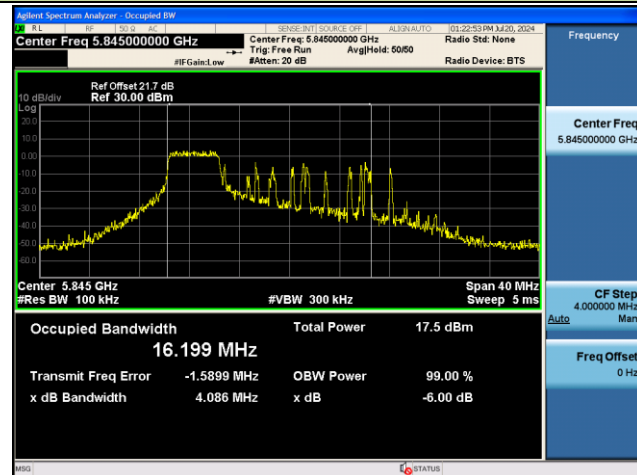
26 Tone_RU0_CH169 (5845MHz)



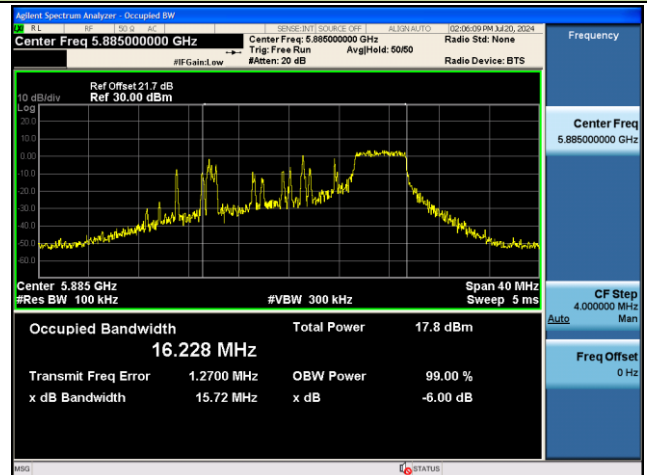
26 Tone_RU8_CH177 (5885MHz)



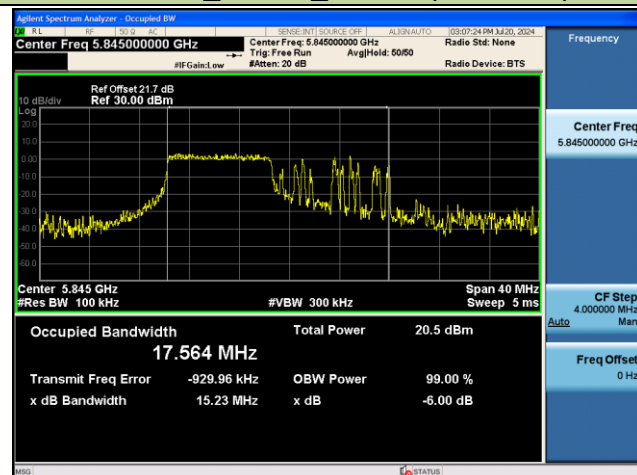
52 Tone_RU74_CH169 (5845MHz)



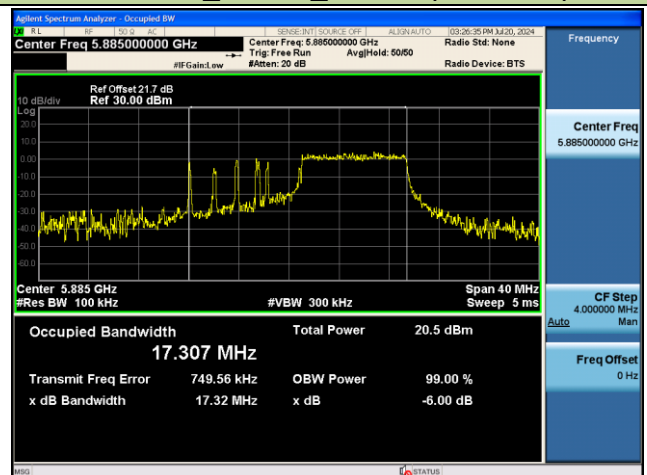
52 Tone_RU77_CH177 (5885MHz)

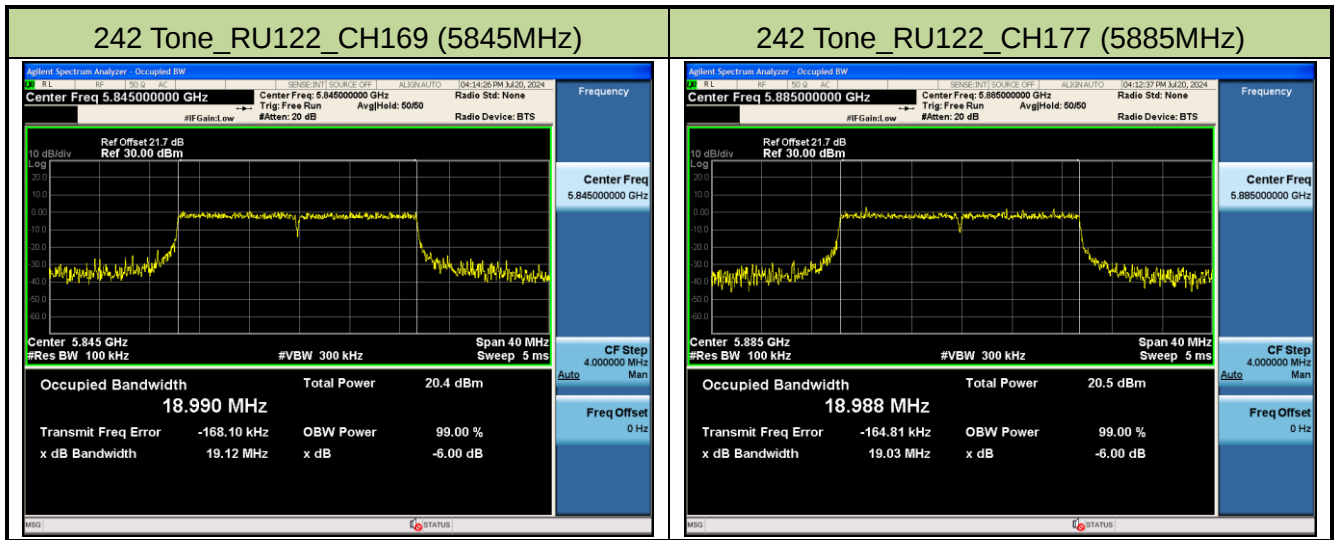


106 Tone_RU106_CH169 (5845MHz)



106 Tone_RU107_CH177 (5885MHz)





7.4. Output Power Measurement

7.4.1. Test Limit

For an indoor access point (Client) operating in the 5.850-5.895 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm. Indoor access points operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 30 dBm.

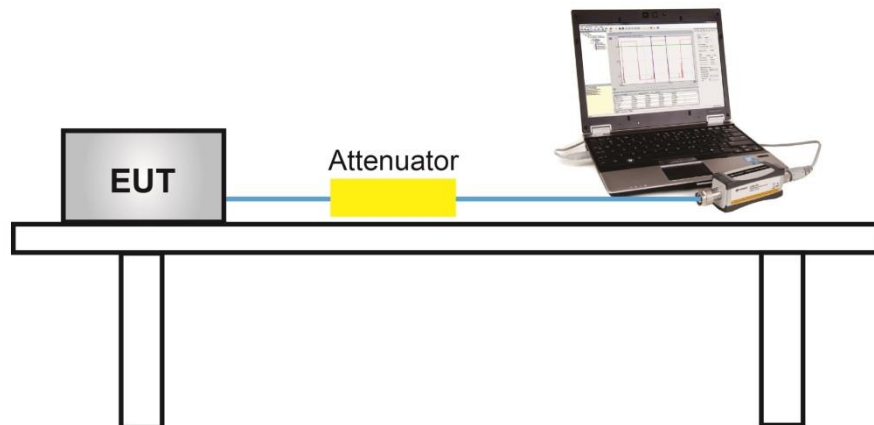
7.4.2. Test Procedure Used

KDB 789033D02v02r01- Section E)3)b) Method PM-G

7.4.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

7.4.4. Test Setup



7.4.5. Test Result

Product	Mobile Computer	Test Engineer	Wen
Test Site	SR5	Test Date	2024/6/28~2024/7/1
Test Mode	CDD Mode		

Test Mode	Data Rate	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant Gain (dBi)	Total EIRP Power (dBm)	Average Power Limit (dBm)	Result
11a	6Mbps	169	5845	14.99	14.67	2.60	20.44	≤ 30.00	Pass
11a	6Mbps	173	5865	14.95	14.61	2.60	20.39	≤ 30.00	Pass
11a	6Mbps	177	5885	14.91	14.62	2.60	20.38	≤ 30.00	Pass
11ac-VHT20	MCS0	169	5845	14.98	14.68	2.60	20.44	≤ 30.00	Pass
11ac-VHT20	MCS0	173	5865	14.90	14.62	2.60	20.37	≤ 30.00	Pass
11ac-VHT20	MCS0	177	5885	14.98	14.62	2.60	20.41	≤ 30.00	Pass
11ac-VHT40	MCS0	167	5835	16.84	16.74	2.60	22.40	≤ 30.00	Pass
11ac-VHT40	MCS0	175	5875	16.68	16.73	2.60	22.32	≤ 30.00	Pass
11ac-VHT80	MCS0	171	5855	16.73	16.64	2.60	22.30	≤ 30.00	Pass
11ac-VHT160	MCS0	163	5815	16.37	15.92	2.60	21.76	≤ 23.98	Pass
11ax-HE20	MCS0	169	5845	14.98	14.72	2.60	20.46	≤ 30.00	Pass
11ax-HE 20	MCS0	173	5865	14.94	14.81	2.60	20.49	≤ 30.00	Pass
11ax-HE 20	MCS0	177	5885	14.99	14.75	2.60	20.48	≤ 30.00	Pass
11ax-HE 40	MCS0	167	5835	16.98	16.99	2.60	22.60	≤ 30.00	Pass
11ax-HE 40	MCS0	175	5875	16.62	16.88	2.60	22.36	≤ 30.00	Pass
11ax-HE 80	MCS0	171	5855	16.80	16.63	2.60	22.33	≤ 30.00	Pass
11ax-HE 160	MCS0	163	5815	16.45	15.92	2.60	21.80	≤ 23.98	Pass

Note 1:

The Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$.

Note 2:

For 5725 - 5850MHz Bands: Average Power Limit (dBm) = 30 dBm.

Test Mode	RU Size	RU Index	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant Gain (dBi)	Total EIRP Power (dBm)	Average Power Limit (dBm)	Result
CDD Mode										
802.11ax-HE20	26 Tone	RU 0	169	5845	7.57	8.54	2.60	13.69	≤ 30.00	Pass
		RU 8	177	5885	6.99	8.52	2.60	13.43	≤ 30.00	Pass
	52 Tone	RU 74	169	5845	10.55	10.12	2.60	15.95	≤ 30.00	Pass
		RU 77	177	5885	10.21	10.18	2.60	15.81	≤ 30.00	Pass
	106 Tone	RU 106	169	5845	13.72	12.88	2.60	18.93	≤ 30.00	Pass
		RU 107	177	5885	13.59	12.81	2.60	18.83	≤ 30.00	Pass
	242 Tone	RU 122	169	5845	15.10	14.40	2.60	20.37	≤ 30.00	Pass
		RU 122	177	5885	15.22	14.35	2.60	20.42	≤ 30.00	Pass
802.11ax-HE40	26 Tone	RU 0	167	5835	7.52	8.53	2.60	13.66	≤ 30.00	Pass
		RU 17	175	5875	6.98	8.51	2.60	13.42	≤ 30.00	Pass
	52 Tone	RU 74	167	5835	10.33	10.18	2.60	15.87	≤ 30.00	Pass
		RU 81	175	5875	10.20	10.16	2.60	15.79	≤ 30.00	Pass
	106 Tone	RU 106	167	5835	13.29	12.66	2.60	18.60	≤ 30.00	Pass
		RU 109	175	5875	13.57	12.72	2.60	18.78	≤ 30.00	Pass
	242 Tone	RU 122	167	5835	14.99	14.48	2.60	20.35	≤ 30.00	Pass
		RU 123	175	5875	14.82	14.71	2.60	20.38	≤ 30.00	Pass
802.11ax-HE80	26 Tone	RU 130	167	5835	16.78	16.82	2.60	22.41	≤ 30.00	Pass
		RU 130	175	5875	16.55	16.80	2.60	22.29	≤ 30.00	Pass
	52 Tone	RU 0	171	5855	10.22	10.42	2.60	15.93	≤ 30.00	Pass
		RU 36	171	5855	10.33	10.01	2.60	15.78	≤ 30.00	Pass
	106 Tone	RU 74	171	5855	7.74	10.10	2.60	14.69	≤ 30.00	Pass
		RU 89	171	5855	7.02	9.60	2.60	14.11	≤ 30.00	Pass
	242 Tone	RU 106	171	5855	13.62	12.86	2.60	18.87	≤ 30.00	Pass
		RU 113	171	5855	12.97	12.02	2.60	18.13	≤ 30.00	Pass
802.11ax-HE80	242 Tone	RU 122	171	5855	14.71	14.82	2.60	20.38	≤ 30.00	Pass
		RU 125	171	5855	14.83	14.00	2.60	20.05	≤ 30.00	Pass
	484 Tone	RU 130	171	5855	16.45	16.17	2.60	21.92	≤ 30.00	Pass
		RU 131	171	5855	16.36	16.07	2.60	21.83	≤ 30.00	Pass
	996 Tone	RU 134	171	5855	16.58	16.62	2.60	22.21	≤ 30.00	Pass

Test Mode	RU Size	RU Index	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant Gain (dBi)	Total EIRP Power (dBm)	Average Power Limit (dBm)	Result
CDD Mode										
802.11ax-HE160	26 Tone	RU 0	163	5815	10.20	10.42	2.60	15.92	≤ 30.00	Pass
		RU 73	163	5815	10.10	10.24	2.60	15.78	≤ 30.00	Pass
	52 Tone	RU 74	163	5815	8.28	10.10	2.60	14.89	≤ 30.00	Pass
		RU 105	163	5815	7.53	9.73	2.60	14.38	≤ 30.00	Pass
	106 Tone	RU 106	163	5815	13.70	12.85	2.60	18.91	≤ 30.00	Pass
		RU 121	163	5815	13.18	11.88	2.60	18.19	≤ 30.00	Pass
	242 Tone	RU 122	163	5815	14.61	14.86	2.60	20.35	≤ 30.00	Pass
		RU 129	163	5815	14.87	13.86	2.60	20.00	≤ 30.00	Pass
	484 Tone	RU 130	163	5815	16.79	16.23	2.60	22.13	≤ 30.00	Pass
		RU 133	163	5815	16.26	15.27	2.60	21.40	≤ 30.00	Pass
	996 Tone	RU 134	163	5815	16.45	15.75	2.60	21.72	≤ 30.00	Pass
		RU 135	163	5815	15.95	15.15	2.60	21.18	≤ 30.00	Pass
	1992 Tone	RU 136	163	5815	15.81	15.34	2.60	21.19	≤ 30.00	Pass

7.5. Power Spectral Density Measurement

7.5.1. Test Limit

For an indoor access point operating in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 14 dBm e.i.r.p. in any 1-megahertz band.

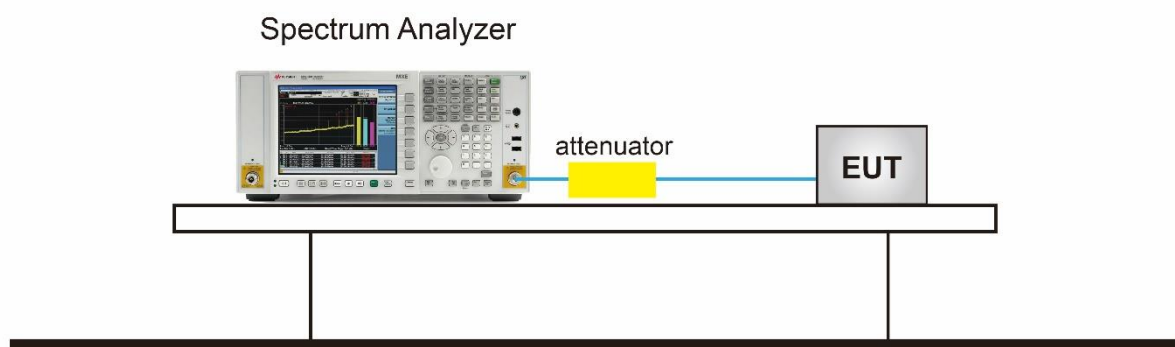
7.5.2. Test Procedure Used

KDB 789033 D02v02r01-SectionF

7.5.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
10. Add $10 \cdot \log(1/x)$, where x is the duty cycle, to the measured power in order 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 $10 \cdot \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

7.5.4. Test Setup



7.5.5.Test Result

Product	Mobile Computer	Test Engineer	Wen
Test Site	SR5	Test Date	2024/7/22
Mode	Power Spectral Density (U-NII- 1) CDD Mode		

Test Mode	Data Rate/MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycle (%)	Ant Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
11a	6Mbps	169	5845	5.337	4.624	99.76%	5.61	13.626	≤14.00	Pass
11a	6Mbps	173	5865	5.296	4.513	99.76%	5.61	13.553	≤14.00	Pass
11a	6Mbps	177	5885	5.128	5.030	99.76%	5.61	13.710	≤14.00	Pass
11ac-VHT20	MCS0	169	5845	5.120	4.484	99.35%	5.61	13.462	≤14.00	Pass
11ac-VHT20	MCS0	173	5865	5.104	4.653	99.35%	5.61	13.533	≤14.00	Pass
11ac-VHT20	MCS0	177	5885	5.097	4.564	99.35%	5.61	13.487	≤14.00	Pass
11ac-VHT40	MCS0	167	5835	3.797	3.809	99.08%	5.61	12.463	≤14.00	Pass
11ac-VHT40	MCS0	175	5875	3.683	4.122	99.08%	5.61	12.568	≤14.00	Pass
11ac-VHT80	MCS0	171	5855	1.273	1.059	98.46%	5.61	9.855	≤14.00	Pass
11ac-VHT160	MCS0	163	5815	-1.842	-2.443	99.09%	5.61	6.528	≤14.00	Pass
11ax-HE20	MCS0	169	5845	5.553	4.749	99.27%	5.61	13.822	≤14.00	Pass
11ax-HE20	MCS0	173	5865	5.006	4.584	99.27%	5.61	13.452	≤14.00	Pass
11ax-HE20	MCS0	177	5885	5.208	4.928	99.27%	5.61	13.722	≤14.00	Pass
11ax-HE40	MCS0	167	5835	4.121	3.870	98.76%	5.61	12.672	≤14.00	Pass
11ax-HE40	MCS0	175	5875	3.917	4.108	98.76%	5.61	12.688	≤14.00	Pass
11ax-HE80	MCS0	171	5855	1.644	1.491	97.63%	5.61	10.293	≤14.00	Pass
11ax-VHT160	MCS0	163	5815	-1.909	-2.403	98.38%	5.61	6.542	≤14.00	Pass

Note 1: When EUT duty cycle ≥ 98%,

the total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/MHz).

When EUT duty cycle < 98%,

the total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\} + 10 \cdot \log (1/\text{Duty Cycle})$ (dBm/MHz).

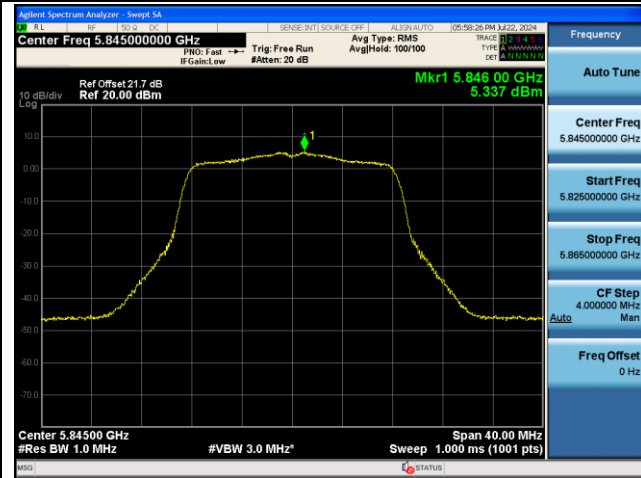
Note 2: EIRP PSD (dBm/MHz) = Total PSD (dBm/MHz) + Antenna Gain (dBi).

Note 3: For Channels span the 5.725-5.850 GHz and 5.850-5.895 GHz bands, we record the maximum level of 5.725-5.850 GHz and 5.850-5.895 GHz with RBW=1MHz, and the level complied with the 5.850-5.895 GHz EIRP PSD Limit.

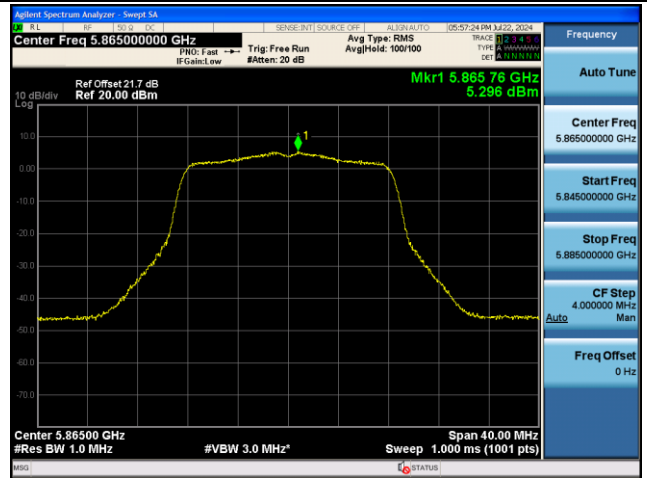
Test Mode	RU Size	RU Index	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycles (%)	Ant Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
CDD mode											
802.11ax-HE20	26 Tone	RU 0	169	5845	4.777	5.643	98.60%	5.61	13.913	≤ 14.00	Pass
802.11ax-HE20		RU 8	177	5885	4.277	6.070	98.60%	5.61	13.947	≤ 14.00	Pass
802.11ax-HE20	52 Tone	RU 74	169	5845	5.022	4.669	99.47%	5.61	13.492	≤ 14.00	Pass
802.11ax-HE20		RU 77	177	5885	4.621	4.749	99.47%	5.61	13.329	≤ 14.00	Pass
802.11ax-HE20	106 Tone	RU 106	169	5845	5.151	4.465	99.58%	5.61	13.460	≤ 14.00	Pass
802.11ax-HE20		RU 107	177	5885	5.273	4.612	99.58%	5.61	13.594	≤ 14.00	Pass
802.11ax-HE20	242 Tone	RU 122	169	5845	3.770	3.029	99.55%	5.61	12.055	≤ 14.00	Pass
802.11ax-HE20		RU 122	177	5885	3.442	3.384	99.55%	5.61	12.053	≤ 14.00	Pass

802.11a Power Spectral Density - Ant 0

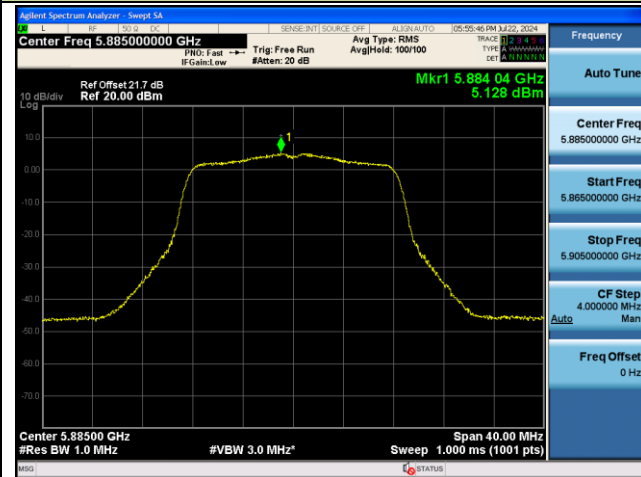
Channel 169 (5845MHz)



Channel 173 (5865MHz)

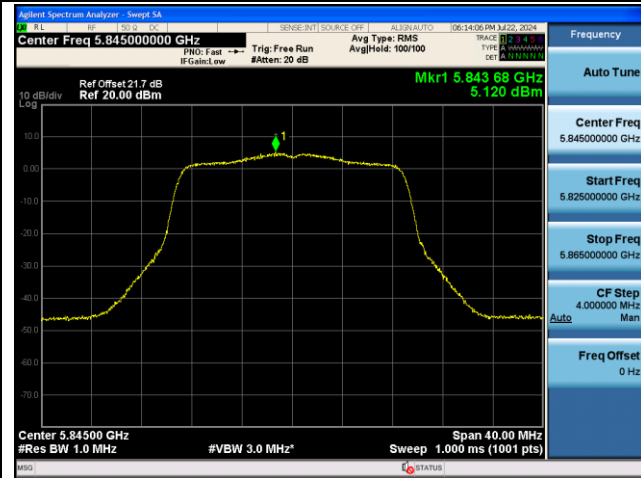


Channel 177 (5885MHz)

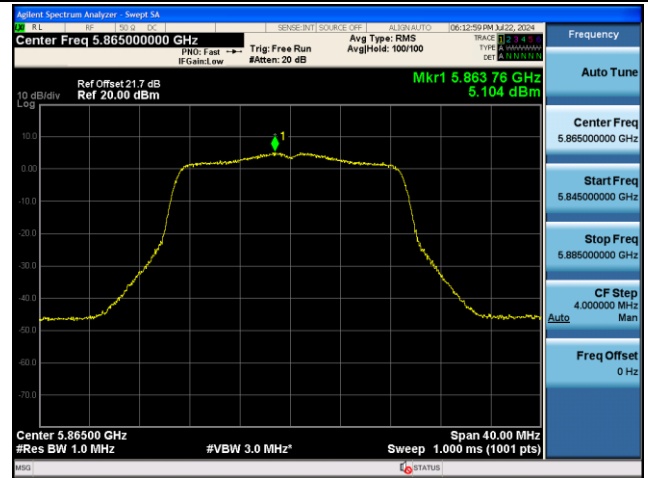


802.11ac-VHT20 Power Spectral Density - Ant 0

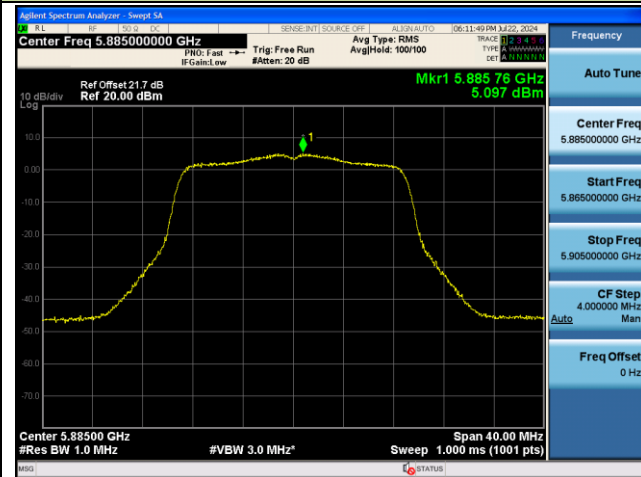
Channel 169 (5845MHz)



Channel 173 (5865MHz)

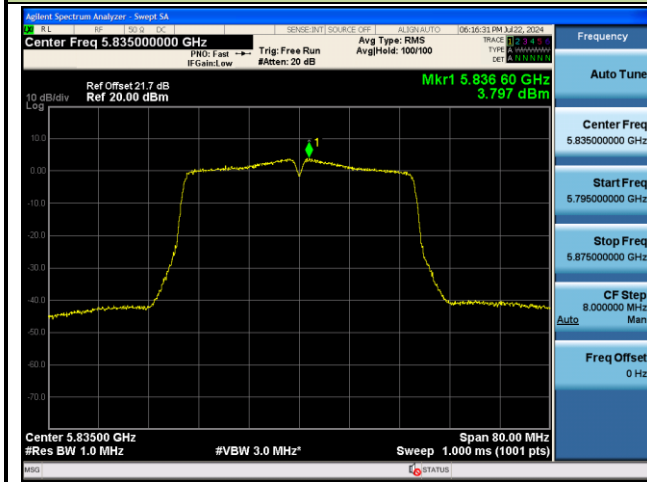


Channel 177 (5885MHz)

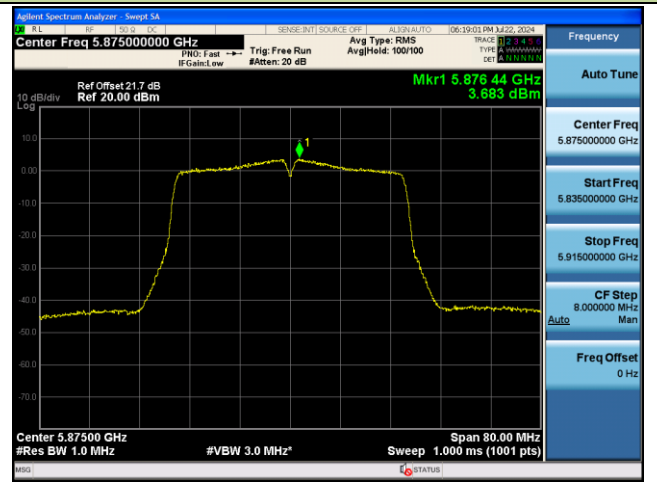


802.11ac-VHT40 Power Spectral Density - Ant 0

Channel 167 (5835MHz)

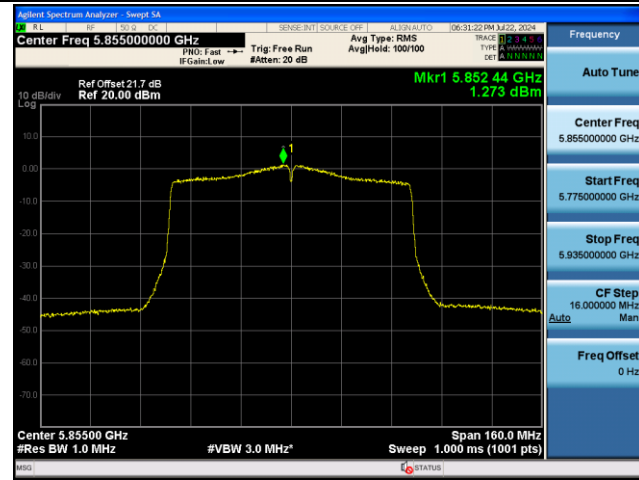


Channel 175 (5875MHz)



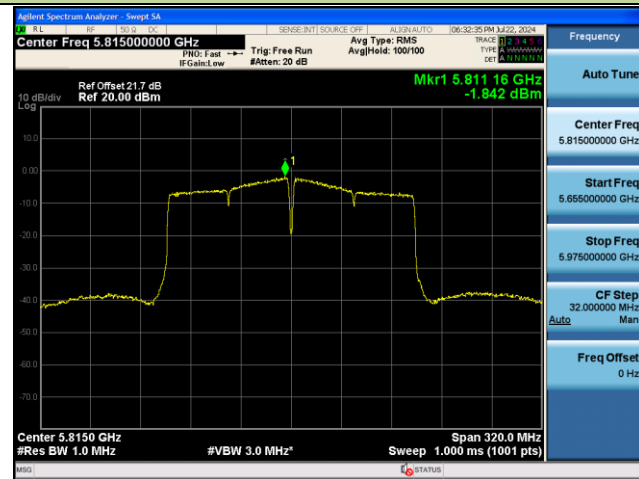
802.11ac-VHT80 Power Spectral Density - Ant 0

Channel 171 (5855MHz)



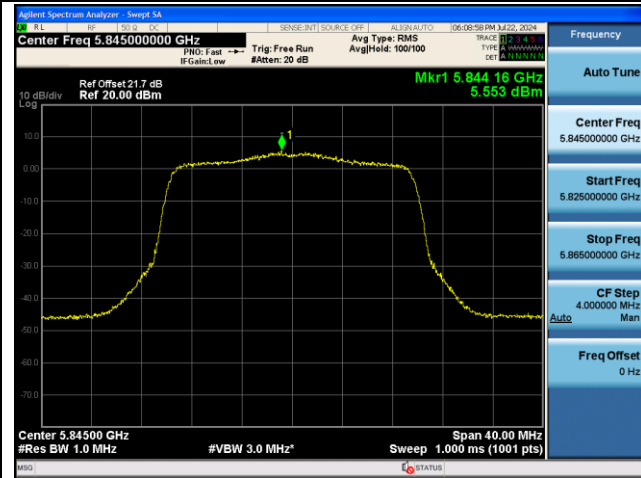
802.11ac-VHT160 Power Spectral Density - Ant 0

Channel 163 (5815MHz)

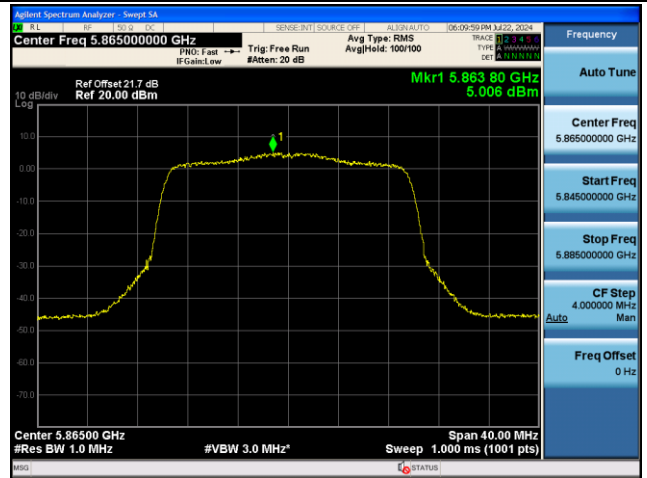


802.11ax-HE20 Power Spectral Density - Ant 0

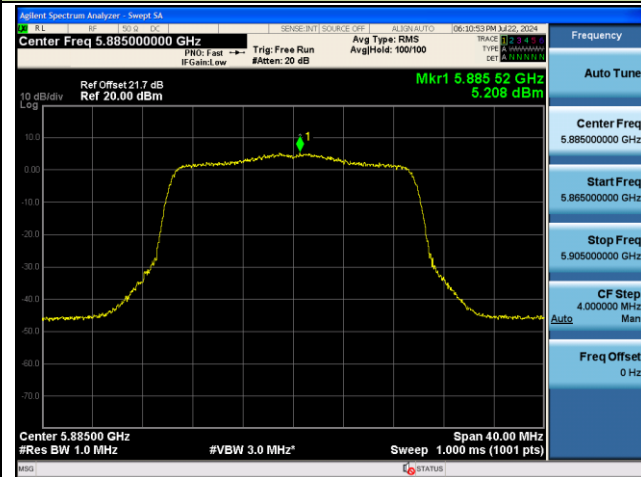
Channel 169 (5845MHz)



Channel 173 (5865MHz)

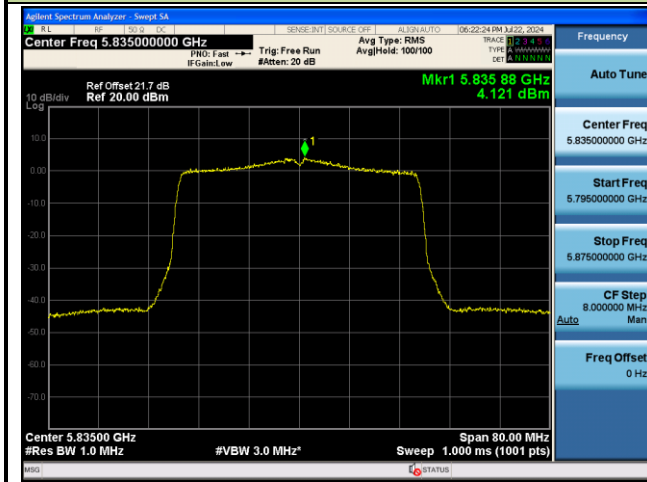


Channel 177 (5885MHz)

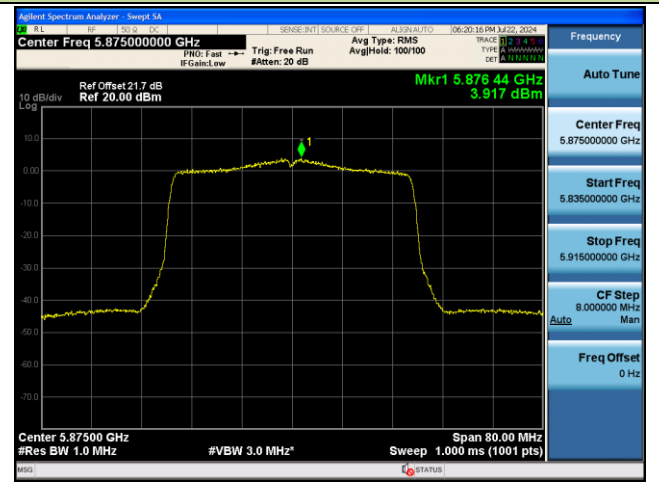


802.11 ax-HE40 Power Spectral Density - Ant 0

Channel 167 (5835MHz)

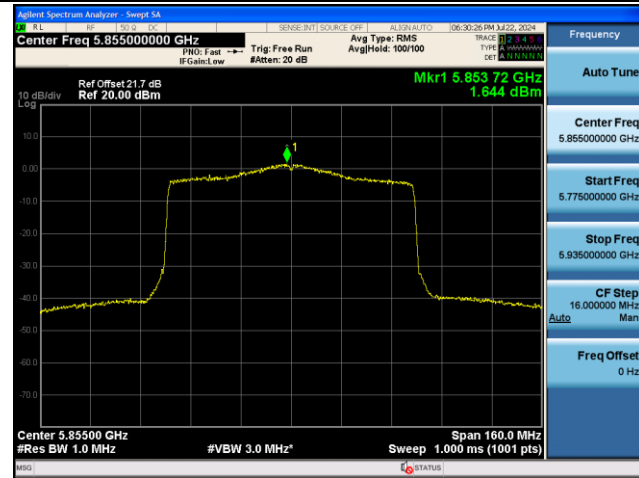


Channel 175 (5875MHz)



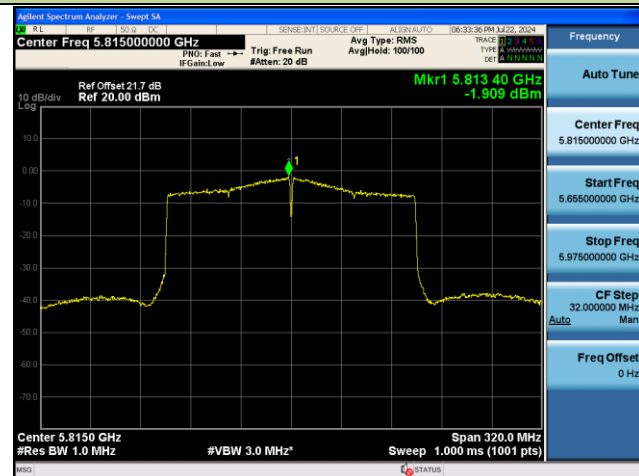
802.11 ax-HE80 Power Spectral Density - Ant 0

Channel 171 (5855MHz)



802.11 ax-HE160 Power Spectral Density - Ant 0

Channel 163 (5815MHz)

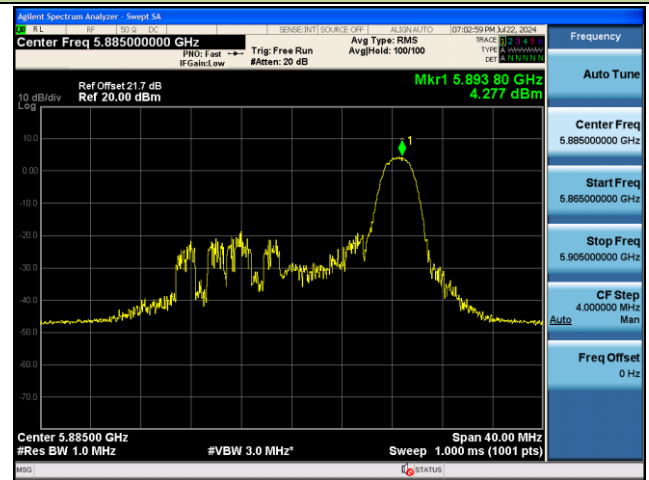


802.11ax-HE20 Power Spectral Density - Ant 0

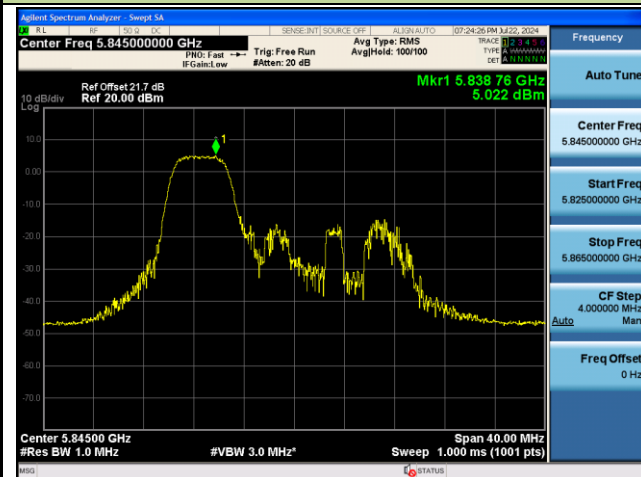
26 Tone_RU0_CH169 (5845MHz)



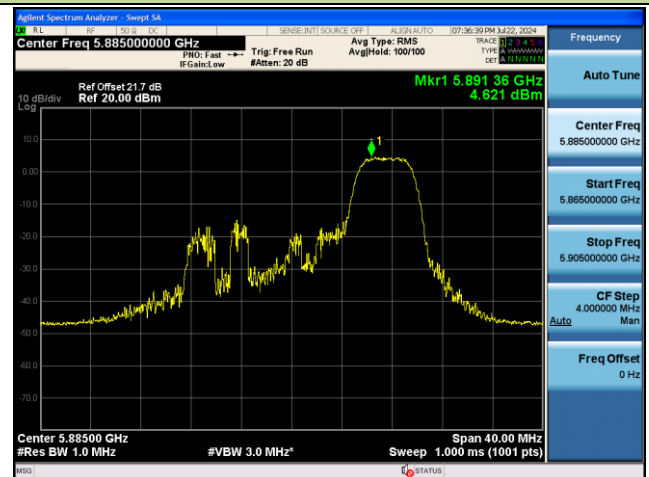
26 Tone_RU8_CH177 (5885MHz)



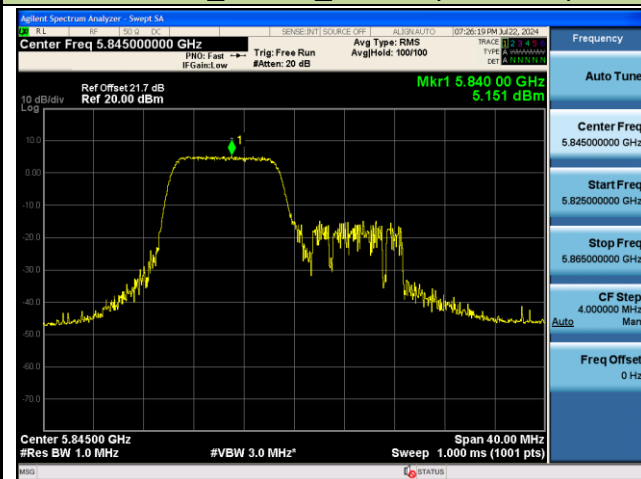
52 Tone_RU74_CH169 (5845MHz)



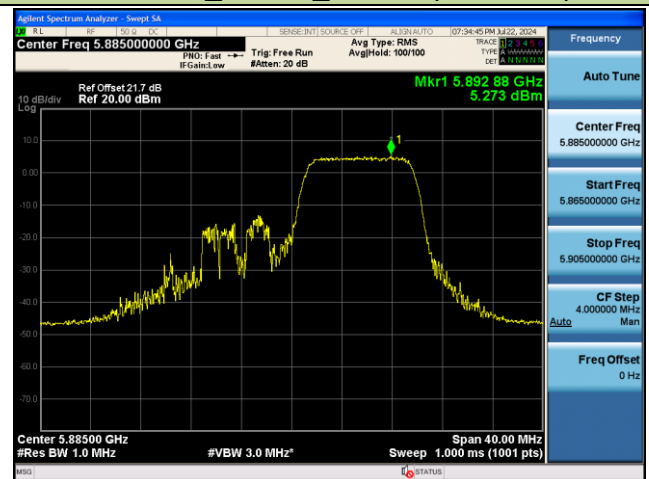
52 Tone_RU77_CH177 (5885MHz)



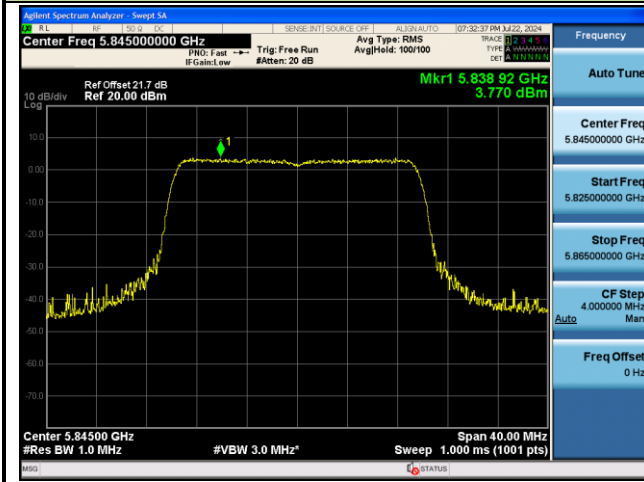
106 Tone_RU106_CH169 (5845MHz)



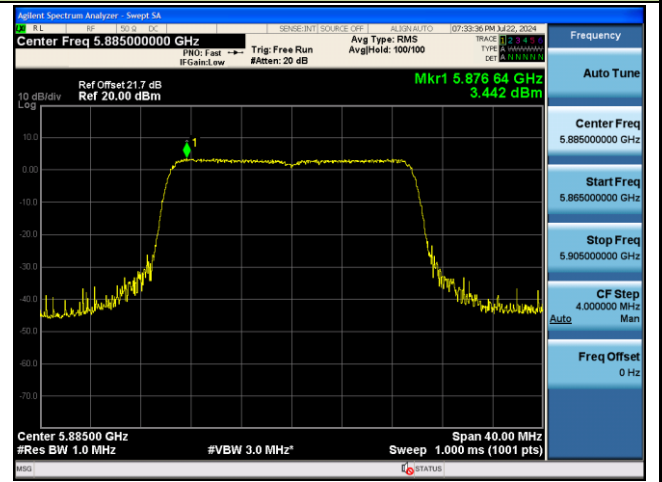
106 Tone_RU107_CH177 (5885MHz)



242 Tone_RU122_CH169 (5845MHz)

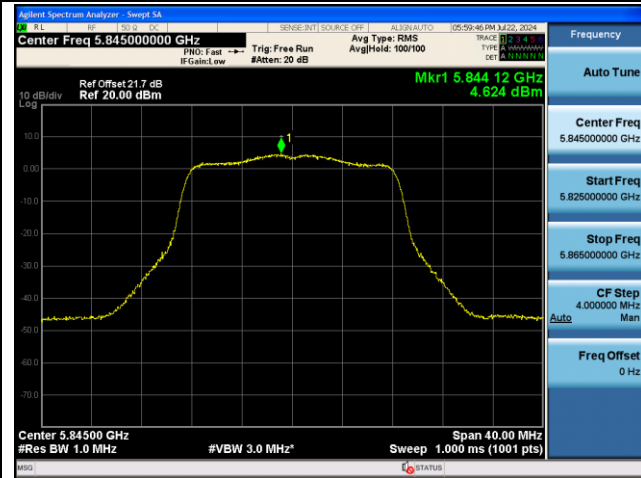


242 Tone_RU122_CH177 (5885MHz)

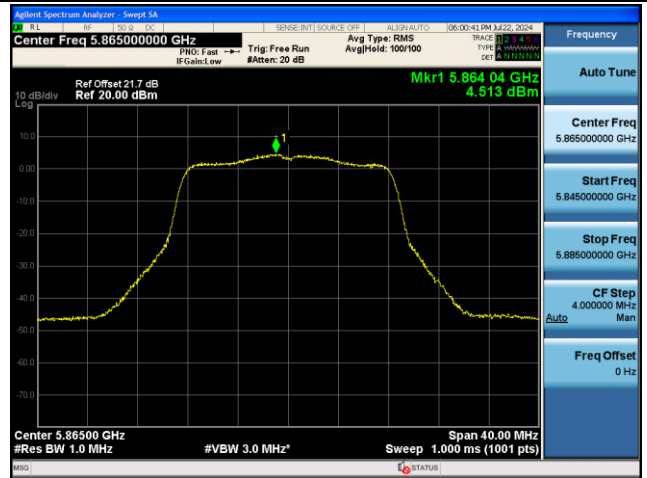


802.11a Power Spectral Density - Ant 1

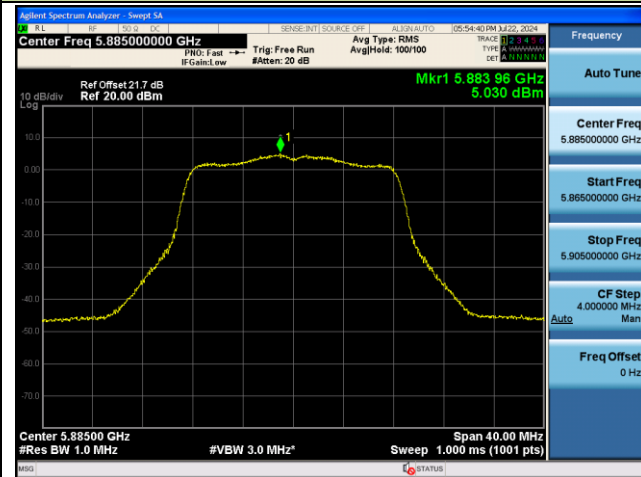
Channel 169 (5845MHz)



Channel 173 (5865MHz)

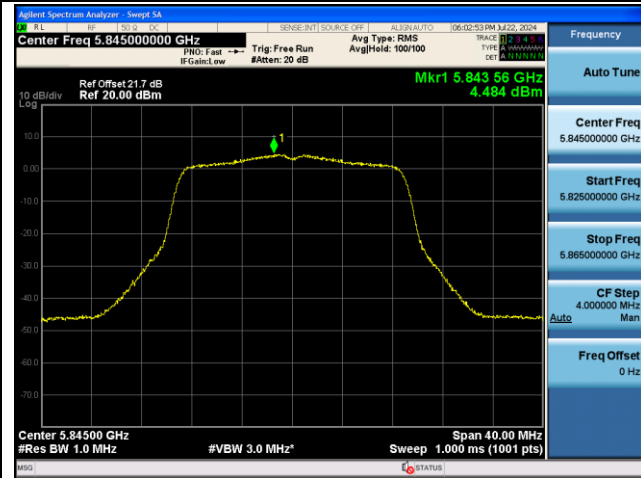


Channel 177 (5885MHz)

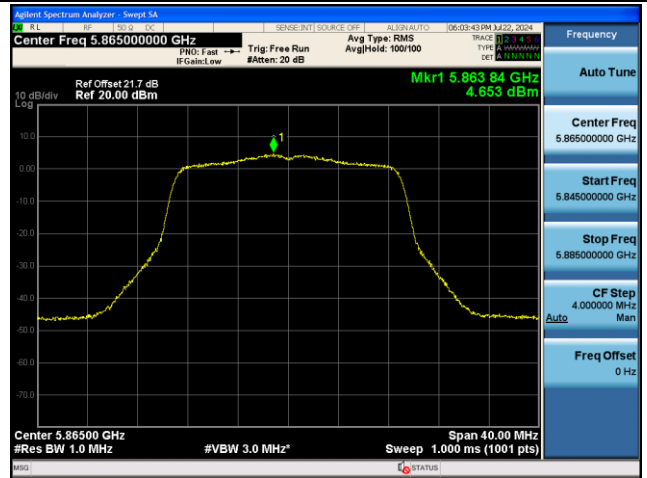


802.11ac-VHT20 Power Spectral Density - Ant 1

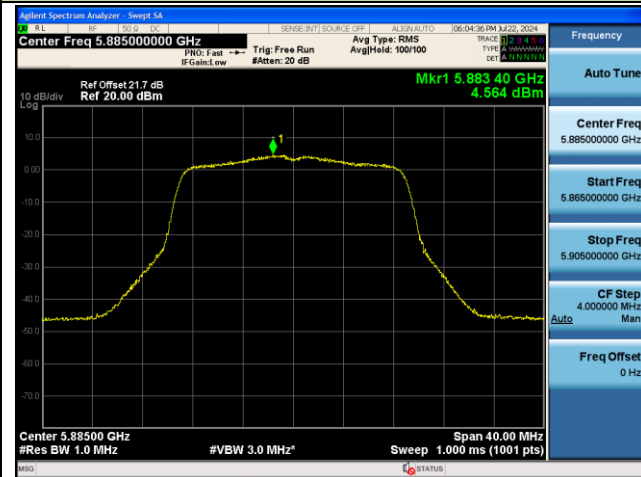
Channel 169 (5845MHz)



Channel 173 (5865MHz)

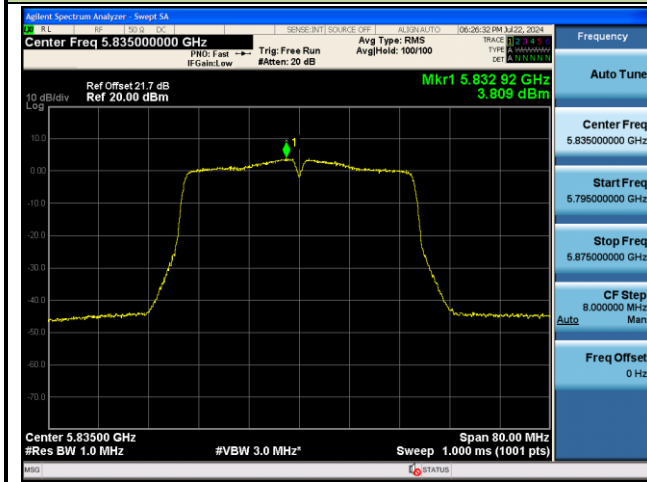


Channel 177 (5885MHz)

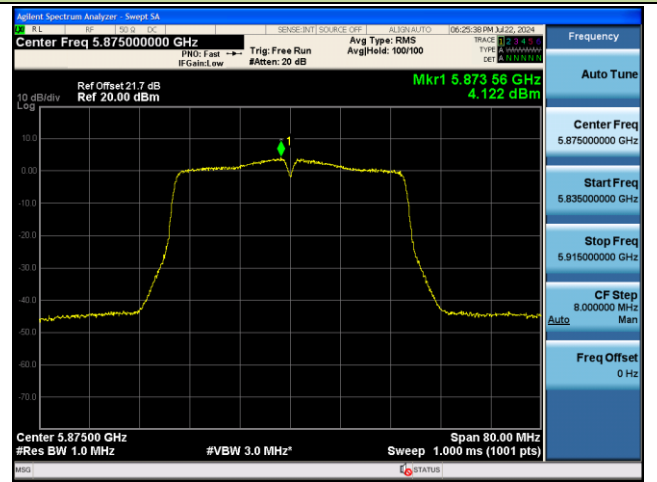


802.11ac-VHT40 Power Spectral Density - Ant 1

Channel 167 (5835MHz)

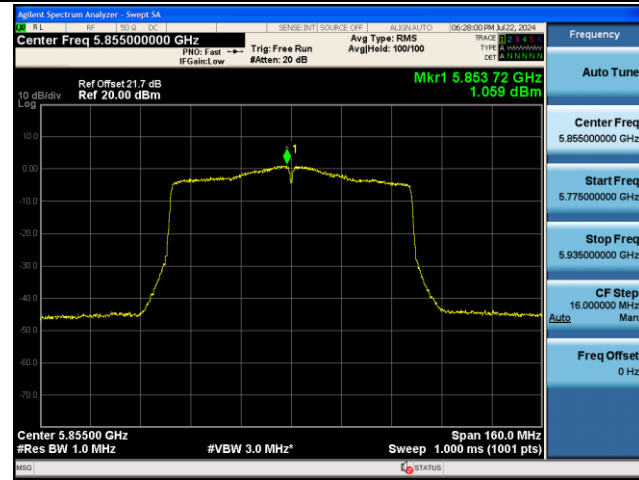


Channel 175 (5875MHz)



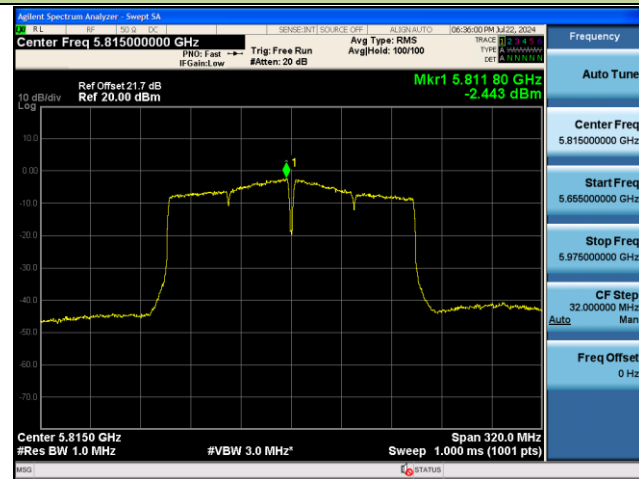
802.11ac-VHT80 Power Spectral Density - Ant 1

Channel 171 (5855MHz)



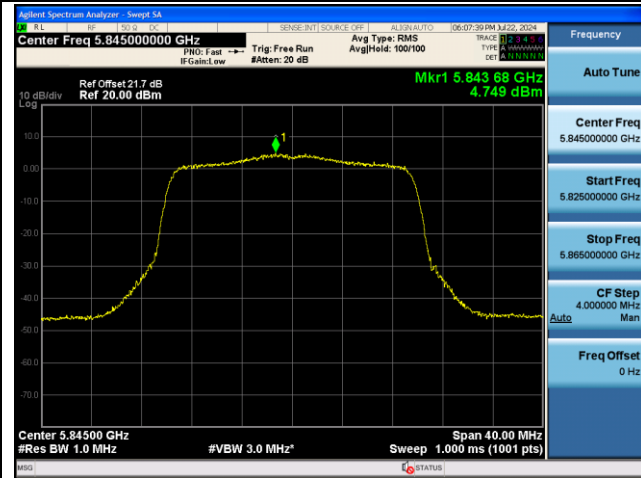
802.11ac-VHT160 Power Spectral Density - Ant 1

Channel 163 (5815MHz)

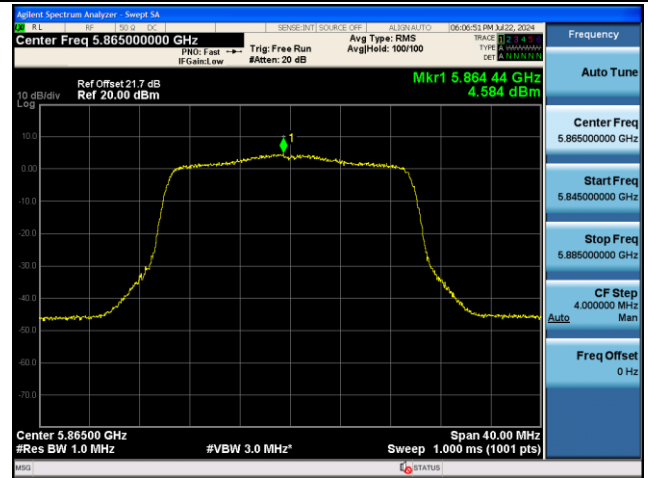


802.11ax-HE20 Power Spectral Density - Ant 1

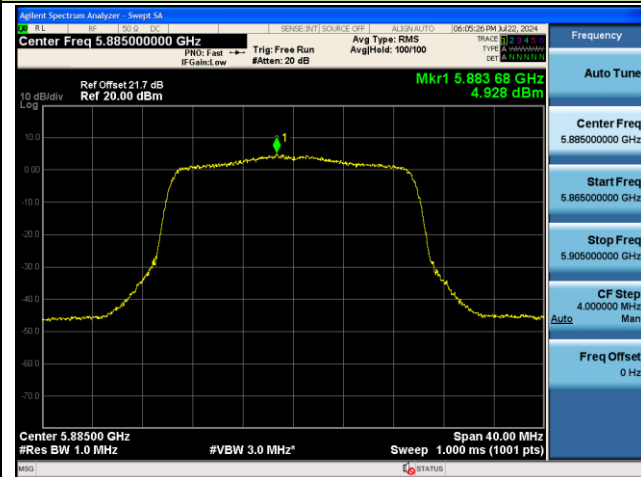
Channel 169 (5845MHz)



Channel 173 (5865MHz)

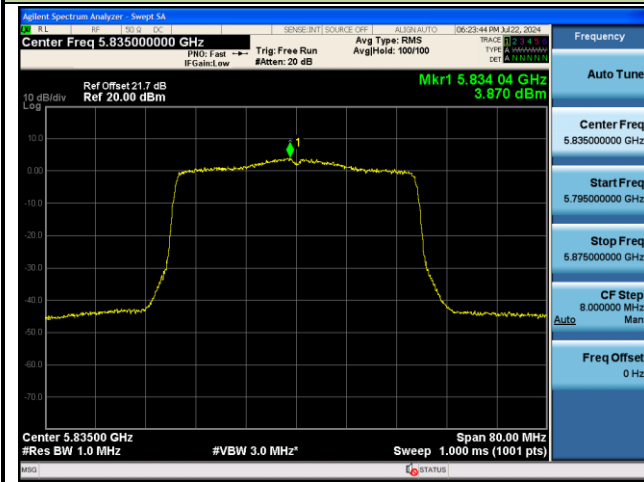


Channel 177 (5885MHz)

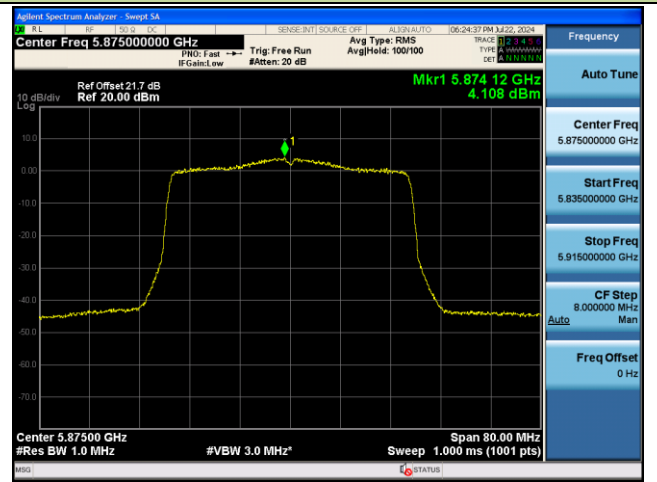


802.11 ax-HE40 Power Spectral Density - Ant 1

Channel 167 (5835MHz)

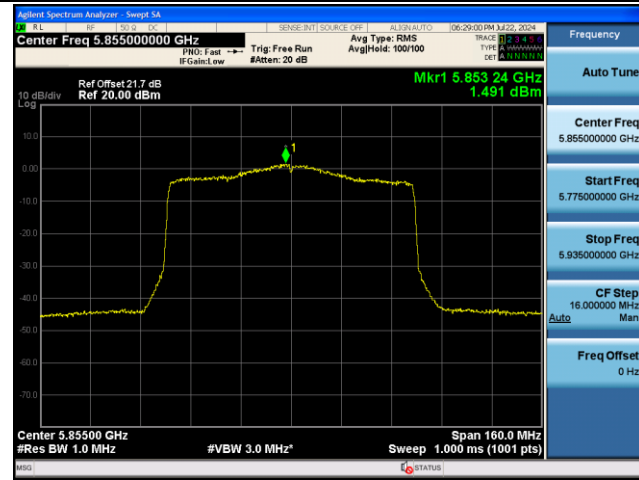


Channel 175 (5875MHz)



802.11 ax-HE80 Power Spectral Density - Ant 1

Channel 171 (5855MHz)



802.11 ax-HE160 Power Spectral Density - Ant 1

Channel 163 (5815MHz)

