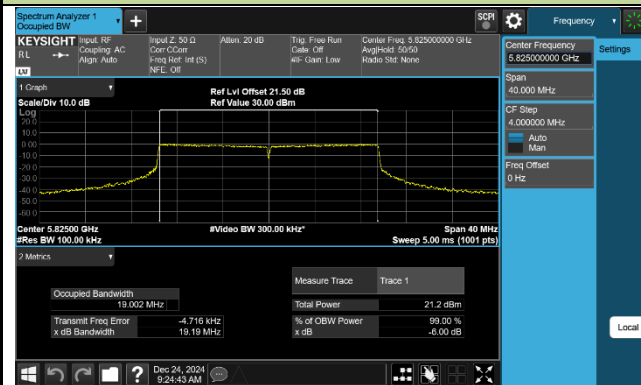
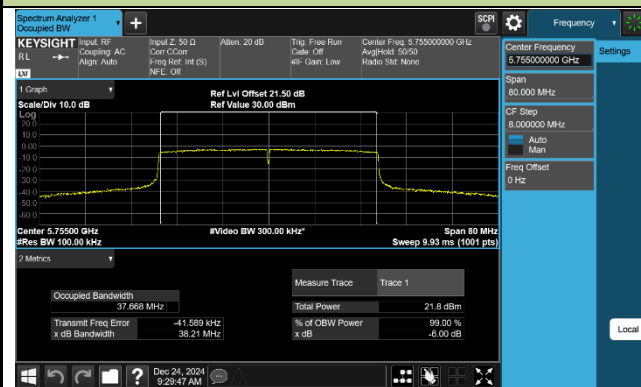


Channel 165 (5825MHz)

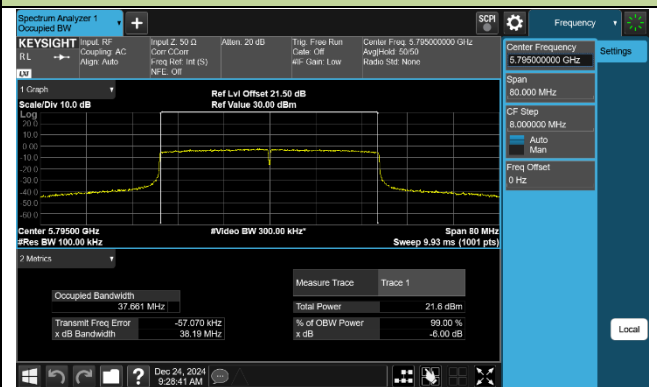


802.11ax-HE40 6dB Bandwidth

Channel 151 (5755MHz)

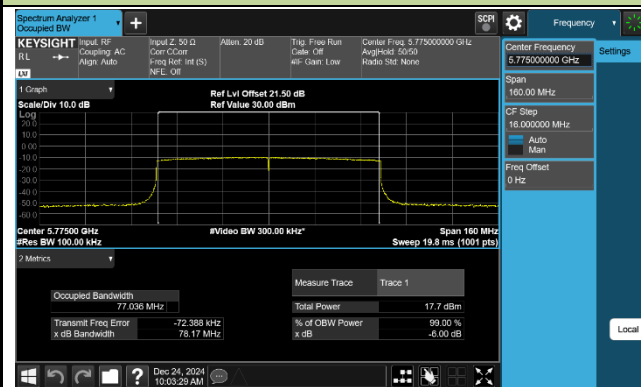


Channel 159 (5795MHz)



802.11ax-HE80 6dB Bandwidth

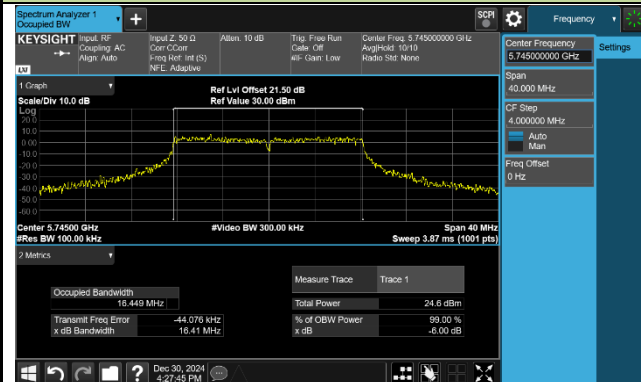
Channel 155 (5775MHz)



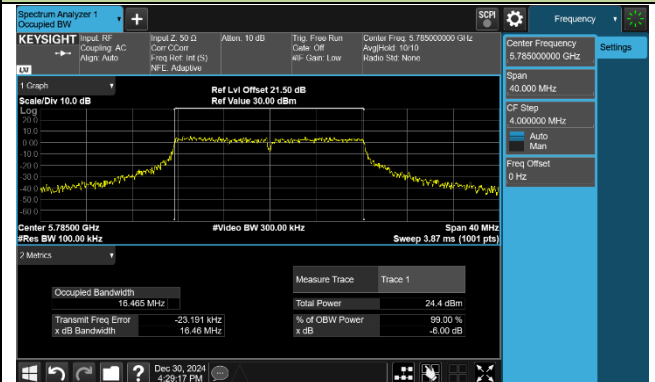
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Wi-Fi Antenna_High Gain						
802.11a	6Mbps	149	5745	16.41	≥ 0.5	Pass
802.11a	6Mbps	157	5785	16.46	≥ 0.5	Pass
802.11a	6Mbps	165	5825	16.55	≥ 0.5	Pass
802.11ac-VHT20	MCS0	149	5745	17.66	≥ 0.5	Pass
802.11ac-VHT20	MCS0	157	5785	17.78	≥ 0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.73	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	36.42	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	36.40	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	72.77	≥ 0.5	Pass
802.11ax-HE20	MCS0	149	5745	19.12	≥ 0.5	Pass
802.11ax-HE20	MCS0	157	5785	18.52	≥ 0.5	Pass
802.11ax-HE20	MCS0	165	5825	19.04	≥ 0.5	Pass
802.11ax-HE40	MCS0	151	5755	37.95	≥ 0.5	Pass
802.11ax-HE40	MCS0	159	5795	38.08	≥ 0.5	Pass
802.11ax-HE80	MCS0	155	5775	78.04	≥ 0.5	Pass

802.11a 6dB Bandwidth

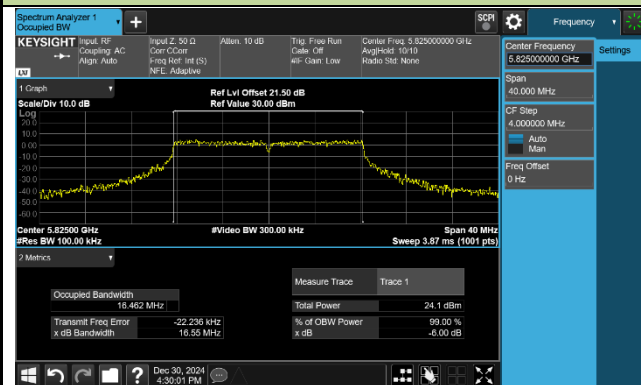
Channel 149 (5745MHz)



Channel 157 (5785MHz)

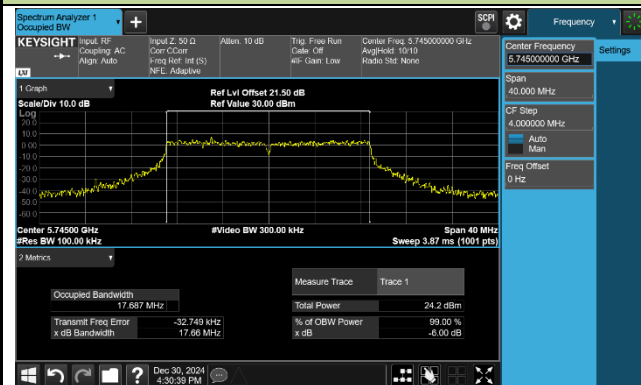


Channel 165 (5825MHz)

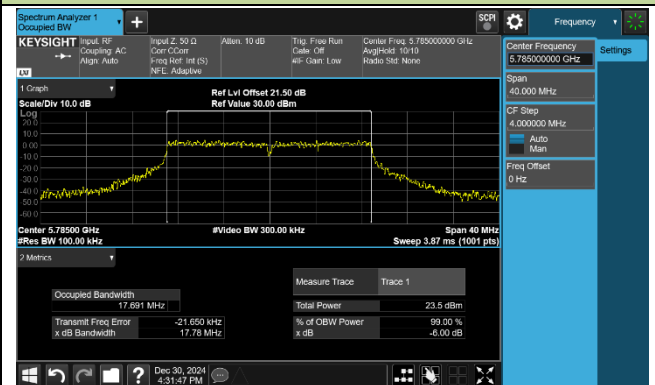


802.11ac-VHT20 6dB Bandwidth

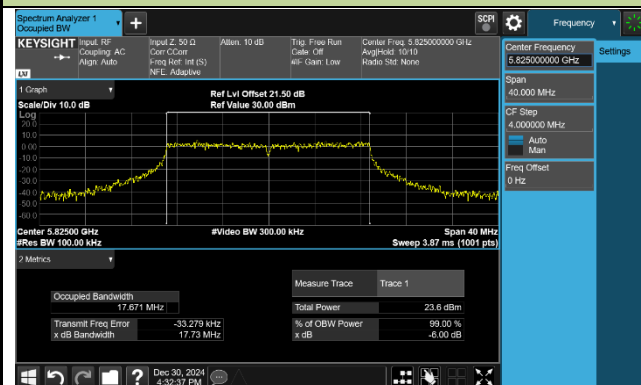
Channel 149 (5745MHz)



Channel 157 (5785MHz)

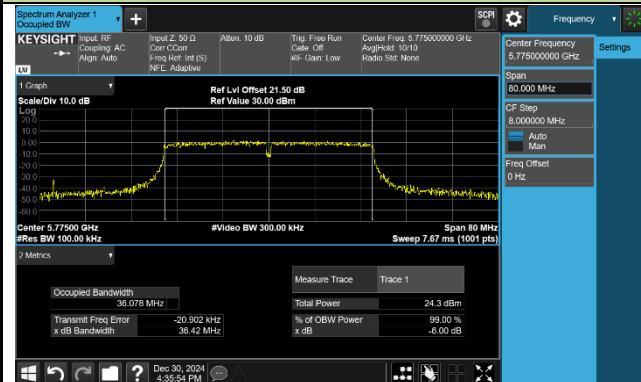


Channel 165 (5825MHz)

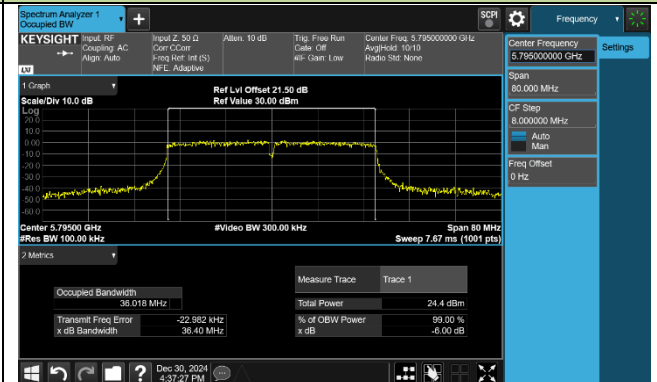


802.11ac-VHT40 6dB Bandwidth

Channel 151 (5755MHz)

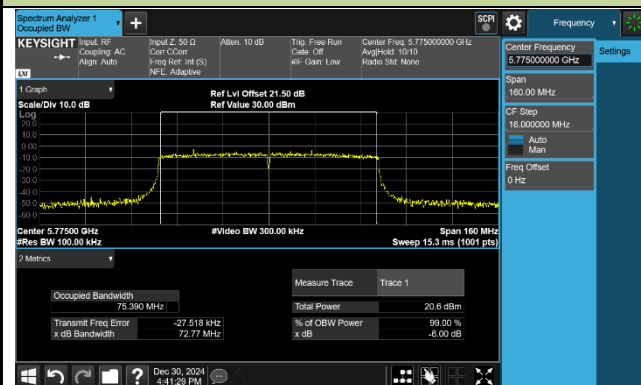


Channel 159 (5795MHz)



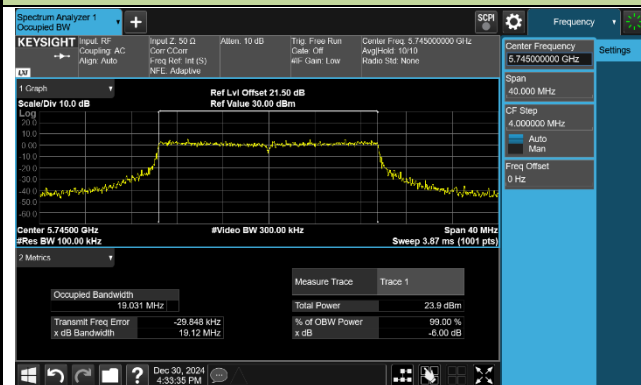
802.11ac-VHT80 6dB Bandwidth

Channel 155 (5775MHz)

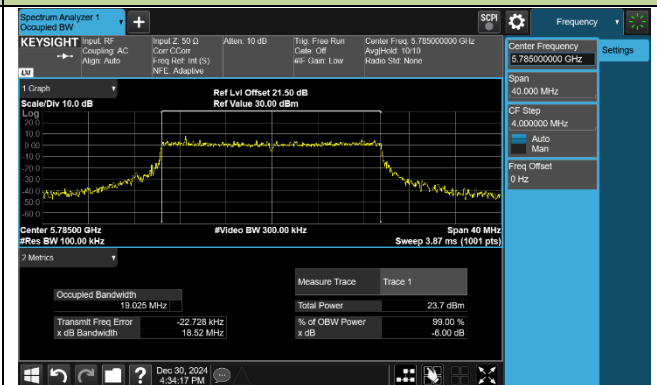


802.11ax-HE20 6dB Bandwidth

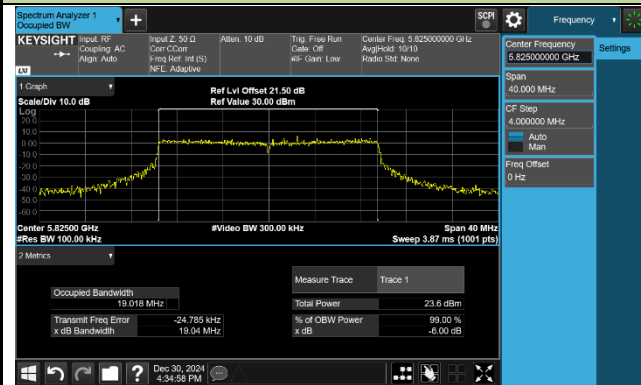
Channel 149 (5745MHz)



Channel 157 (5785MHz)

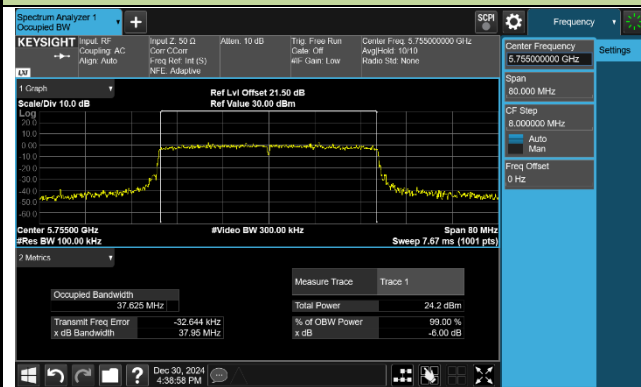


Channel 165 (5825MHz)

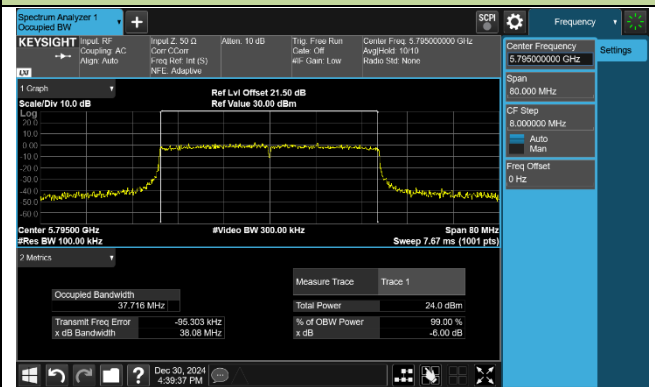


802.11ax-HE40 6dB Bandwidth

Channel 151 (5755MHz)

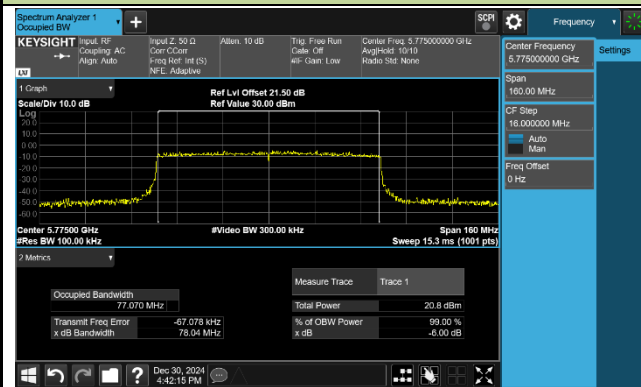


Channel 159 (5795MHz)



802.11ax-HE80 6dB Bandwidth

Channel 155 (5775MHz)



7.4. Output Power Measurement

7.4.1. Test Limit

For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm).

If transmitting antennas of directional gain greater than 6dBi are used, the maximumconducted output power shall be reduced by the amount in dB that the directional gain of theantenna exceeds 6dBi.

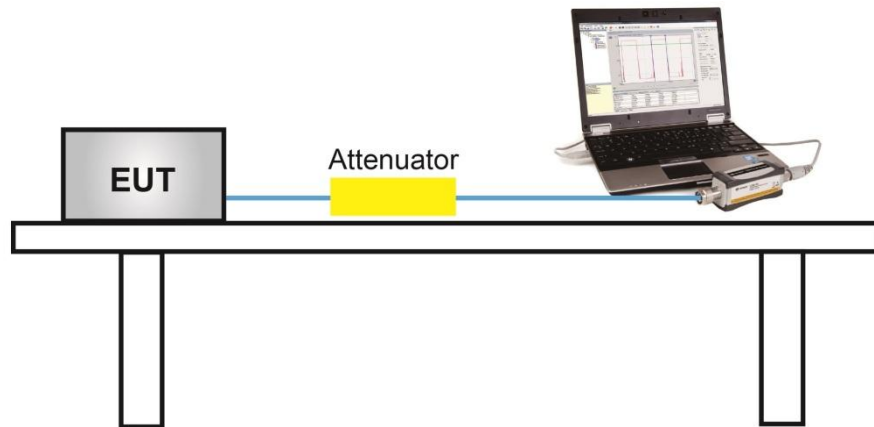
7.4.2. Test Procedure Used

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	AX3000 Indoor/Outdoor Wi-Fi 6 Access Point	Test Engineer	Peter
Test Site	SR6	Test Date	2024/12/7~2025/1/7
Test Mode	Wi-Fi Antenna_Low Gain		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
11a	6Mbps	36	5180	19.03	19.73	22.40	≤ 28.00	Pass
11a	6Mbps	40	5200	21.42	21.65	24.55	≤ 28.00	Pass
11a	6Mbps	48	5240	21.90	21.90	24.91	≤ 28.00	Pass
11a	6Mbps	52	5260	15.93	15.94	18.95	≤ 21.98	Pass
11a	6Mbps	60	5300	15.96	16.03	19.01	≤ 21.98	Pass
11a	6Mbps	64	5320	16.23	16.07	19.16	≤ 21.98	Pass
11a	6Mbps	100	5500	16.03	16.34	19.20	≤ 21.98	Pass
11a	6Mbps	116	5580	15.98	16.60	19.31	≤ 21.98	Pass
11a	6Mbps	140	5700	16.19	15.49	18.86	≤ 21.98	Pass
11a	6Mbps	144	5720	17.33	16.30	19.86	≤ 22.65	Pass
11a	6Mbps	149	5745	22.56	22.48	25.53	≤ 28.00	Pass
11a	6Mbps	157	5785	22.32	22.45	25.40	≤ 28.00	Pass
11a	6Mbps	165	5825	22.18	22.14	25.17	≤ 28.00	Pass
11ac-VHT20	MCS0	36	5180	19.03	19.75	22.42	≤ 28.00	Pass
11ac-VHT20	MCS0	40	5200	21.78	21.85	24.83	≤ 28.00	Pass
11ac-VHT20	MCS0	48	5240	21.47	21.77	24.63	≤ 28.00	Pass
11ac-VHT20	MCS0	52	5260	16.87	16.75	19.82	≤ 21.98	Pass
11ac-VHT20	MCS0	60	5300	16.85	17.08	19.98	≤ 21.98	Pass
11ac-VHT20	MCS0	64	5320	16.54	16.38	19.47	≤ 21.98	Pass
11ac-VHT20	MCS0	100	5500	16.45	16.82	19.65	≤ 21.98	Pass
11ac-VHT20	MCS0	116	5580	16.55	17.39	20.00	≤ 21.98	Pass
11ac-VHT20	MCS0	140	5700	15.54	14.86	18.22	≤ 21.98	Pass
11ac-VHT20	MCS0	144	5720	17.10	16.22	19.69	≤ 22.86	Pass
11ac-VHT20	MCS0	149	5745	22.46	22.45	25.47	≤ 28.00	Pass
11ac-VHT20	MCS0	157	5785	22.19	22.35	25.28	≤ 28.00	Pass
11ac-VHT20	MCS0	165	5825	22.05	22.18	25.13	≤ 28.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
11ac-VHT40	MCS0	38	5190	18.75	19.33	22.06	≤ 28.00	Pass
11ac-VHT40	MCS0	46	5230	21.56	22.24	24.92	≤ 28.00	Pass
11ac-VHT40	MCS0	54	5270	18.57	18.40	21.50	≤ 21.98	Pass
11ac-VHT40	MCS0	62	5310	16.44	16.60	19.53	≤ 21.98	Pass
11ac-VHT40	MCS0	102	5510	16.40	17.69	20.10	≤ 21.98	Pass
11ac-VHT40	MCS0	110	5550	18.60	19.00	21.81	≤ 21.98	Pass
11ac-VHT40	MCS0	134	5670	18.64	18.07	21.37	≤ 21.98	Pass
11ac-VHT40	MCS0	142	5710	19.03	18.20	21.65	≤ 21.98	Pass
11ac-VHT40	MCS0	151	5755	22.37	22.39	25.39	≤ 28.00	Pass
11ac-VHT40	MCS0	159	5795	22.12	22.34	25.24	≤ 28.00	Pass
11ac-VHT80	MCS0	42	5210	17.78	18.11	20.96	≤ 28.00	Pass
11ac-VHT80	MCS0	58	5290	17.38	17.48	20.44	≤ 21.98	Pass
11ac-VHT80	MCS0	106	5530	17.17	17.65	20.43	≤ 21.98	Pass
11ac-VHT80	MCS0	122	5610	18.48	18.71	21.61	≤ 21.98	Pass
11ac-VHT80	MCS0	138	5690	18.62	18.87	21.76	≤ 21.98	Pass
11ac-VHT80	MCS0	155	5775	18.02	18.06	21.05	≤ 28.00	Pass
11ac-VHT160	MCS0	50	5250	15.43	15.43	18.44	≤ 21.00	Pass
11ac-VHT160	MCS0	114	5570	12.91	12.77	15.85	≤ 21.98	Pass
11ax-HE20	MCS0	36	5180	19.58	20.27	22.95	≤ 28.00	Pass
11ax-HE20	MCS0	40	5200	19.58	20.17	22.90	≤ 28.00	Pass
11ax-HE20	MCS0	48	5240	19.56	20.34	22.98	≤ 28.00	Pass
11ax-HE20	MCS0	52	5260	16.88	16.84	19.87	≤ 21.98	Pass
11ax-HE20	MCS0	60	5300	16.89	16.98	19.95	≤ 21.98	Pass
11ax-HE20	MCS0	64	5320	16.61	16.57	19.60	≤ 21.98	Pass
11ax-HE20	MCS0	100	5500	16.33	16.72	19.54	≤ 21.98	Pass
11ax-HE20	MCS0	116	5580	16.60	17.40	20.03	≤ 21.98	Pass
11ax-HE20	MCS0	140	5700	15.29	14.43	17.89	≤ 21.98	Pass
11ax-HE20	MCS0	144	5720	17.14	16.27	19.74	≤ 22.84	Pass
11ax-HE20	MCS0	149	5745	22.35	22.37	25.37	≤ 28.00	Pass
11ax-HE20	MCS0	157	5785	22.23	22.31	25.28	≤ 28.00	Pass
11ax-HE20	MCS0	165	5825	22.00	22.10	25.06	≤ 28.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
11ax-HE40	MCS0	38	5190	18.43	18.87	21.67	≤ 28.00	Pass
11ax-HE40	MCS0	46	5230	21.60	22.27	24.96	≤ 28.00	Pass
11ax-HE40	MCS0	54	5270	18.50	18.51	21.52	≤ 21.98	Pass
11ax-HE40	MCS0	62	5310	18.60	18.63	21.63	≤ 21.98	Pass
11ax-HE40	MCS0	102	5510	18.51	19.02	21.78	≤ 21.98	Pass
11ax-HE40	MCS0	110	5550	18.39	18.60	21.51	≤ 21.98	Pass
11ax-HE40	MCS0	134	5670	18.69	18.24	21.48	≤ 21.98	Pass
11ax-HE40	MCS0	142	5710	18.52	18.50	21.52	≤ 21.98	Pass
11ax-HE40	MCS0	151	5755	22.39	22.51	25.46	≤ 28.00	Pass
11ax-HE40	MCS0	159	5795	22.18	22.44	25.32	≤ 28.00	Pass
11ax-HE80	MCS0	42	5210	17.80	18.65	21.26	≤ 28.00	Pass
11ax-HE80	MCS0	58	5290	16.69	16.76	19.74	≤ 21.98	Pass
11ax-HE80	MCS0	106	5530	17.07	18.04	20.59	≤ 21.98	Pass
11ax-HE80	MCS0	122	5610	18.24	18.48	21.37	≤ 21.98	Pass
11ax-HE80	MCS0	138	5690	18.50	18.65	21.59	≤ 21.98	Pass
11ax-HE80	MCS0	155	5775	18.30	18.34	21.33	≤ 28.00	Pass
11ax-HE160	MCS0	50	5250	15.58	15.60	18.60	≤ 21.00	Pass
11ax-HE160	MCS0	114	5570	13.12	13.06	16.10	≤ 21.98	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 5250- 5350MHz and 5470 - 5725MHz Band: Average Power Limit (dBm) = 23.98 – (8.00 – 2) = 21.98dBm.

For 5150 - 5250MHz and 5725 - 5850MHz Bands: Average Power Limit (dBm) = 30 – (8.00 – 2) = 28.00dBm.

For Channel 144 (5720MHz), Average Power Limit (dBm) = $11 + 10 \cdot \log(5\text{MHz} + \text{BW}_{26\text{dBc}}/2)$

Product	AX3000 Indoor/Outdoor Wi-Fi 6 Access Point	Test Engineer	Peter
Test Site	SR6	Test Date	2024/12/7~2025/1/7
Test Mode	Wi-Fi Antenna_High Gain		

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power(dBm)	Average Power Limit (dBm)	Result
11a	6Mbps	36	5180	16.91	17.23	20.08	≤ 26.00	Pass
11a	6Mbps	40	5200	19.61	19.32	22.48	≤ 26.00	Pass
11a	6Mbps	48	5240	19.99	19.58	22.80	≤ 26.00	Pass
11a	6Mbps	52	5260	14.14	13.42	16.81	≤ 19.98	Pass
11a	6Mbps	60	5300	14.16	13.74	16.97	≤ 19.98	Pass
11a	6Mbps	64	5320	14.42	13.70	17.09	≤ 19.98	Pass
11a	6Mbps	100	5500	13.92	13.62	16.78	≤ 19.98	Pass
11a	6Mbps	116	5580	13.79	14.43	17.13	≤ 19.98	Pass
11a	6Mbps	140	5700	13.17	12.16	15.70	≤ 19.98	Pass
11a	6Mbps	144	5720	15.10	14.34	17.75	≤ 19.98	Pass
11a	6Mbps	149	5745	20.93	19.91	23.46	≤ 26.00	Pass
11a	6Mbps	157	5785	20.76	19.83	23.33	≤ 26.00	Pass
11a	6Mbps	165	5825	20.41	19.74	23.10	≤ 26.00	Pass
11ac-VHT20	MCS0	36	5180	17.33	17.21	20.28	≤ 26.00	Pass
11ac-VHT20	MCS0	40	5200	19.58	19.38	22.49	≤ 26.00	Pass
11ac-VHT20	MCS0	48	5240	19.40	19.07	22.25	≤ 26.00	Pass
11ac-VHT20	MCS0	52	5260	14.76	14.32	17.56	≤ 19.98	Pass
11ac-VHT20	MCS0	60	5300	14.46	14.33	17.41	≤ 19.98	Pass
11ac-VHT20	MCS0	64	5320	14.44	13.72	17.11	≤ 19.98	Pass
11ac-VHT20	MCS0	100	5500	14.38	13.92	17.17	≤ 19.98	Pass
11ac-VHT20	MCS0	116	5580	14.32	15.07	17.72	≤ 19.98	Pass
11ac-VHT20	MCS0	140	5700	13.23	12.19	15.75	≤ 19.98	Pass
11ac-VHT20	MCS0	144	5720	14.85	13.47	17.22	≤ 19.98	Pass
11ac-VHT20	MCS0	149	5745	20.87	19.88	23.41	≤ 26.00	Pass
11ac-VHT20	MCS0	157	5785	20.47	19.37	22.97	≤ 26.00	Pass
11ac-VHT20	MCS0	165	5825	20.43	19.67	23.08	≤ 26.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power(dBm)	Average Power Limit (dBm)	Result
11ac-VHT40	MCS0	38	5190	16.90	16.69	19.81	≤ 26.00	Pass
11ac-VHT40	MCS0	46	5230	19.86	19.70	22.79	≤ 26.00	Pass
11ac-VHT40	MCS0	54	5270	16.55	16.41	19.49	≤ 19.98	Pass
11ac-VHT40	MCS0	62	5310	14.68	14.08	17.40	≤ 19.98	Pass
11ac-VHT40	MCS0	102	5510	14.63	14.62	17.64	≤ 19.98	Pass
11ac-VHT40	MCS0	110	5550	16.16	16.42	19.30	≤ 19.98	Pass
11ac-VHT40	MCS0	134	5670	16.36	15.43	18.93	≤ 19.98	Pass
11ac-VHT40	MCS0	142	5710	16.42	16.57	19.51	≤ 19.98	Pass
11ac-VHT40	MCS0	151	5755	20.46	19.47	23.00	≤ 26.00	Pass
11ac-VHT40	MCS0	159	5795	20.59	19.80	23.22	≤ 26.00	Pass
11ac-VHT80	MCS0	42	5210	15.94	15.59	18.78	≤ 26.00	Pass
11ac-VHT80	MCS0	58	5290	14.90	14.66	17.79	≤ 19.98	Pass
11ac-VHT80	MCS0	106	5530	15.40	15.17	18.30	≤ 19.98	Pass
11ac-VHT80	MCS0	122	5610	15.90	16.41	19.17	≤ 19.98	Pass
11ac-VHT80	MCS0	138	5690	17.11	16.12	19.65	≤ 19.98	Pass
11ac-VHT80	MCS0	155	5775	19.71	19.43	22.58	≤ 26.00	Pass
11ac-VHT160	MCS0	50	5250	13.70	12.85	16.31	≤ 21.00	Pass
11ac-VHT160	MCS0	114	5570	13.93	14.26	17.11	≤ 19.98	Pass
11ax-HE20	MCS0	36	5180	17.84	17.77	20.82	≤ 26.00	Pass
11ax-HE20	MCS0	40	5200	20.32	20.85	23.60	≤ 26.00	Pass
11ax-HE20	MCS0	48	5240	20.96	21.23	24.11	≤ 26.00	Pass
11ax-HE20	MCS0	52	5260	14.40	14.00	17.21	≤ 19.98	Pass
11ax-HE20	MCS0	60	5300	14.46	14.47	17.48	≤ 19.98	Pass
11ax-HE20	MCS0	64	5320	14.93	14.19	17.59	≤ 19.98	Pass
11ax-HE20	MCS0	100	5500	14.36	14.07	17.23	≤ 19.98	Pass
11ax-HE20	MCS0	116	5580	14.06	14.89	17.51	≤ 19.98	Pass
11ax-HE20	MCS0	140	5700	13.15	12.22	15.72	≤ 19.98	Pass
11ax-HE20	MCS0	144	5720	15.36	13.97	17.73	≤ 19.98	Pass
11ax-HE20	MCS0	149	5745	20.82	19.82	23.36	≤ 26.00	Pass
11ax-HE20	MCS0	157	5785	20.40	19.42	22.95	≤ 26.00	Pass
11ax-HE20	MCS0	165	5825	20.27	19.56	22.94	≤ 26.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power(dBm)	Average Power Limit (dBm)	Result
11ax-HE40	MCS0	38	5190	16.56	16.40	19.49	≤ 26.00	Pass
11ax-HE40	MCS0	46	5230	19.86	19.81	22.85	≤ 26.00	Pass
11ax-HE40	MCS0	54	5270	16.50	16.50	19.51	≤ 19.98	Pass
11ax-HE40	MCS0	62	5310	16.51	16.64	19.59	≤ 19.98	Pass
11ax-HE40	MCS0	102	5510	16.19	16.77	19.50	≤ 19.98	Pass
11ax-HE40	MCS0	110	5550	16.46	16.28	19.38	≤ 19.98	Pass
11ax-HE40	MCS0	134	5670	16.45	15.58	19.05	≤ 19.98	Pass
11ax-HE40	MCS0	142	5710	16.79	15.78	19.32	≤ 19.98	Pass
11ax-HE40	MCS0	151	5755	20.51	19.54	23.06	≤ 26.00	Pass
11ax-HE40	MCS0	159	5795	20.31	19.48	22.93	≤ 26.00	Pass
11ax-HE80	MCS0	42	5210	16.26	15.87	19.08	≤ 26.00	Pass
11ax-HE80	MCS0	58	5290	14.73	14.25	17.51	≤ 19.98	Pass
11ax-HE80	MCS0	106	5530	15.10	15.14	18.13	≤ 19.98	Pass
11ax-HE80	MCS0	122	5610	15.62	16.21	18.94	≤ 19.98	Pass
11ax-HE80	MCS0	138	5690	16.87	15.82	19.39	≤ 19.98	Pass
11ax-HE80	MCS0	155	5775	20.35	19.95	23.16	≤ 26.00	Pass
11ax-HE160	MCS0	50	5250	13.40	12.84	16.14	≤ 21.00	Pass
11ax-HE160	MCS0	114	5570	13.88	14.51	17.22	≤ 19.98	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 5250- 5350MHz and 5470 - 5725MHz Band: Average Power Limit (dBm) = 23.98 – (10.00 – 6) = 19.98dBm.

For 5150 - 5250MHz and 5725 - 5850MHz Bands: Average Power Limit (dBm) = 30 – (10.00 – 6) = 26.00dBm.

For Channel 144 (5720MHz), Average Power Limit (dBm) = $11 + 10 \cdot \log(5\text{MHz} + BW_{26\text{dBc}}/2)$

Product	AX3000 Indoor/Outdoor Wi-Fi 6 Access Point	Test Engineer	Peter
Test Site	SR6	Test Date	2024/12/7~2025/1/7
Test Mode	Wi-Fi Antenna_Low Gain		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
				Ant 0	Ant 1				
EIRP at any elevation angle above 30 degrees									
11a	6Mbps	36	5180	19.03	19.73	22.40	18.40	≤ 21.00	Pass
11a	6Mbps	44	5220	21.42	21.65	24.55	20.55	≤ 21.00	Pass
11a	6Mbps	48	5240	21.90	21.90	24.91	20.91	≤ 21.00	Pass
11ac-VHT20	MCS0	36	5180	19.03	19.75	22.42	18.42	≤ 21.00	Pass
11ac-VHT20	MCS0	44	5220	21.78	21.85	24.83	20.83	≤ 21.00	Pass
11ac-VHT20	MCS0	48	5240	21.47	21.77	24.63	20.63	≤ 21.00	Pass
11ac-VHT40	MCS0	38	5190	18.75	19.33	22.06	18.06	≤ 21.00	Pass
11ac-VHT40	MCS0	46	5230	21.56	22.24	24.92	20.92	≤ 21.00	Pass
11ac-VHT80	MCS0	42	5210	17.78	18.11	20.96	16.96	≤ 21.00	Pass
11ac-VHT160	MCS0	50	5250	16.96	16.96	16.96	14.44	≤ 21.00	Pass
11ax-HE20	MCS0	36	5180	19.58	20.27	22.95	18.95	≤ 21.00	Pass
11ax-HE20	MCS0	44	5220	19.58	20.17	22.90	18.90	≤ 21.00	Pass
11ax-HE20	MCS0	48	5240	19.56	20.34	22.98	18.98	≤ 21.00	Pass
11ax-HE40	MCS0	38	5190	18.43	18.87	21.67	17.67	≤ 21.00	Pass
11ax-HE40	MCS0	46	5230	21.60	22.27	24.96	20.96	≤ 21.00	Pass
11ax-HE80	MCS0	42	5210	17.80	18.65	21.26	17.26	≤ 21.00	Pass
11ax-HE160	MCS0	50	5250	15.58	15.60	18.60	14.60	≤ 21.00	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: EIRP (dBm) = Total Average Power (dBm) + Directional Gain (dBi)

Product	AX3000 Indoor/Outdoor Wi-Fi 6 Access Point	Test Engineer	Peter
Test Site	SR6	Test Date	2024/12/7~2025/1/7
Test Mode	Wi-Fi Antenna_High Gain		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
				Ant 0	Ant 1				
EIRP at any elevation angle above 30 degrees									
11a	6Mbps	36	5180	16.91	17.23	20.08	16.08	≤ 21.00	Pass
11a	6Mbps	44	5220	19.61	19.32	22.48	18.48	≤ 21.00	Pass
11a	6Mbps	48	5240	19.99	19.58	22.80	18.80	≤ 21.00	Pass
11ac-VHT20	MCS0	36	5180	17.33	17.21	20.28	16.28	≤ 21.00	Pass
11ac-VHT20	MCS0	44	5220	19.58	19.38	22.49	18.49	≤ 21.00	Pass
11ac-VHT20	MCS0	48	5240	19.40	19.07	22.25	18.25	≤ 21.00	Pass
11ac-VHT40	MCS0	38	5190	16.90	16.69	19.81	15.81	≤ 21.00	Pass
11ac-VHT40	MCS0	46	5230	19.86	19.70	22.79	18.79	≤ 21.00	Pass
11ac-VHT80	MCS0	42	5210	15.94	15.59	18.78	14.78	≤ 21.00	Pass
11ac-VHT160	MCS0	50	5250	13.70	12.85	16.31	12.31	≤ 21.00	Pass
11ax-HE20	MCS0	36	5180	17.84	17.77	20.82	16.82	≤ 21.00	Pass
11ax-HE20	MCS0	44	5220	20.32	20.85	23.60	19.60	≤ 21.00	Pass
11ax-HE20	MCS0	48	5240	20.96	21.23	24.11	20.11	≤ 21.00	Pass
11ax-HE40	MCS0	38	5190	16.56	16.40	19.49	15.49	≤ 21.00	Pass
11ax-HE40	MCS0	46	5230	19.86	19.81	22.85	18.85	≤ 21.00	Pass
11ax-HE80	MCS0	42	5210	16.26	15.87	19.08	15.08	≤ 21.00	Pass
11ax-HE160	MCS0	50	5250	13.40	12.84	16.14	12.14	≤ 21.00	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: EIRP (dBm) = Total Average Power (dBm) + Directional Gain (dBi)

7.5. Transmit Power Control

7.5.1. Test Limit

The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

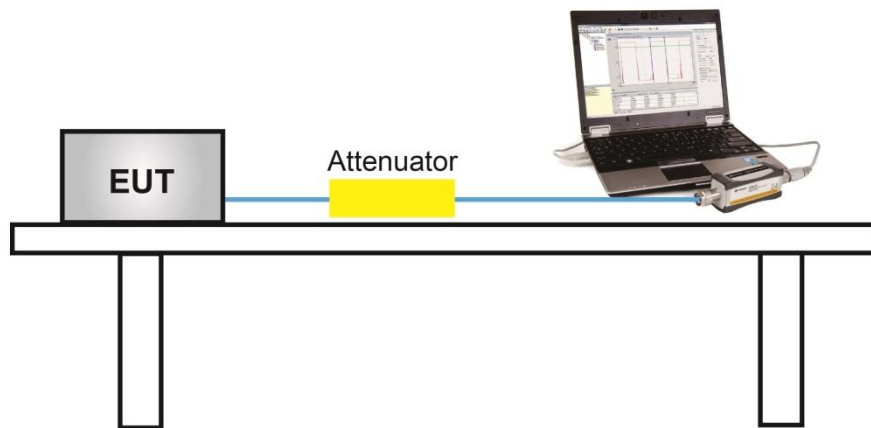
7.5.2. Test Procedure Used

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

7.5.3. 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. The trace was averaged over 100 traces to obtain the final measured average power.

7.5.4. Test Setup



7.5.5. Test Result

Device supports TPC mechanism, details refer to the operational description.

7.6. Power Spectral Density Measurement

7.6.1. Test Limit

For the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

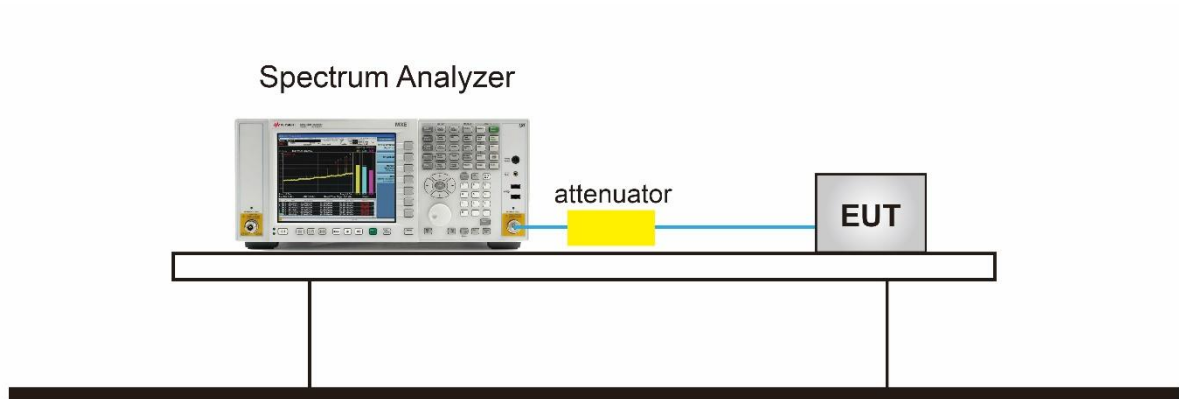
7.6.2. Test Procedure Used

KDB 789033 D02v02r01-Section F

7.6.3. 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, if measurement bandwidth of Maximum PSD is specified in 500 kHz,
RBW = 510 kHz
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.

7.6.4. Test Setup



7.6.5.Test Result

Product	AX3000 Indoor/Outdoor Wi-Fi 6 Access Point	Test Engineer	Peter
Test Site	SR6	Test Date	2024/12/27~2025/1/19
Mode	Power Spectral Density (U-NII- 1/-2a / -2c) _ Wi-Fi Antenna_Low Gain		

Test Mode	Data Rate /MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11a	6Mbps	36	5180	8.414	8.755	97.77%	11.696	≤ 15.00	Pass
11a	6Mbps	40	5200	10.730	10.818	97.77%	13.882	≤ 15.00	Pass
11a	6Mbps	48	5240	11.215	11.093	97.77%	14.263	≤ 15.00	Pass
11a	6Mbps	52	5260	4.826	5.464	97.77%	8.265	≤ 9.00	Pass
11a	6Mbps	60	5300	5.601	5.173	97.77%	8.501	≤ 9.00	Pass
11a	6Mbps	64	5320	5.517	5.671	97.77%	8.703	≤ 9.00	Pass
11a	6Mbps	100	5500	5.124	5.467	97.77%	8.407	≤ 9.00	Pass
11a	6Mbps	116	5580	4.408	5.624	97.77%	8.167	≤ 9.00	Pass
11a	6Mbps	140	5700	5.315	4.241	97.77%	7.919	≤ 9.00	Pass
11a	6Mbps	144	5720	6.469	5.180	97.77%	8.980	≤ 9.00	Pass
11ac-VHT20	MCS0	36	5180	7.327	8.561	86.48%	11.629	≤ 15.00	Pass
11ac-VHT20	MCS0	40	5200	9.522	10.050	86.48%	13.435	≤ 15.00	Pass
11ac-VHT20	MCS0	48	5240	9.975	9.883	86.48%	13.570	≤ 15.00	Pass
11ac-VHT20	MCS0	52	5260	4.590	4.442	86.48%	8.158	≤ 9.00	Pass
11ac-VHT20	MCS0	60	5300	5.088	5.346	86.48%	8.860	≤ 9.00	Pass
11ac-VHT20	MCS0	64	5320	5.104	5.155	86.48%	8.771	≤ 9.00	Pass
11ac-VHT20	MCS0	100	5500	4.952	5.240	86.48%	8.740	≤ 9.00	Pass
11ac-VHT20	MCS0	116	5580	4.925	4.591	86.48%	8.402	≤ 9.00	Pass
11ac-VHT20	MCS0	140	5700	3.869	3.096	86.48%	7.141	≤ 9.00	Pass
11ac-VHT20	MCS0	144	5720	5.499	5.135	86.48%	8.962	≤ 9.00	Pass

Test Mode	Data Rate /MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11ac-VHT40	MCS0	38	5190	3.135	4.179	85.56%	7.376	≤ 15.00	Pass
11ac-VHT40	MCS0	46	5230	7.390	8.116	85.56%	11.456	≤ 15.00	Pass
11ac-VHT40	MCS0	54	5270	3.886	4.237	85.56%	7.753	≤ 9.00	Pass
11ac-VHT40	MCS0	62	5310	1.810	2.233	85.56%	5.714	≤ 9.00	Pass
11ac-VHT40	MCS0	102	5510	1.472	2.804	85.56%	5.876	≤ 9.00	Pass
11ac-VHT40	MCS0	110	5550	4.123	4.427	85.56%	7.965	≤ 9.00	Pass
11ac-VHT40	MCS0	134	5670	3.510	3.364	85.56%	7.125	≤ 9.00	Pass
11ac-VHT40	MCS0	142	5710	4.101	2.808	85.56%	7.190	≤ 9.00	Pass
11ac-VHT80	MCS0	42	5210	0.218	0.856	85.42%	4.243	≤ 15.00	Pass
11ac-VHT80	MCS0	58	5290	0.282	0.004	85.42%	3.840	≤ 9.00	Pass
11ac-VHT80	MCS0	106	5530	-0.490	0.308	85.42%	3.622	≤ 9.00	Pass
11ac-VHT80	MCS0	122	5610	1.400	1.383	85.42%	5.086	≤ 9.00	Pass
11ac-VHT80	MCS0	138	5690	1.663	1.276	85.42%	5.169	≤ 9.00	Pass
11ac-VHT160	MCS0	50	5250	-4.357	-4.208	93.26%	-0.969	≤ 9.00	Pass
11ac-VHT160	MCS0	114	5570	-6.656	-7.163	93.26%	-3.589	≤ 9.00	Pass
11ax-HE20	MCS0	36	5180	7.530	8.274	84.80%	11.644	≤ 15.00	Pass
11ax-HE20	MCS0	40	5200	7.678	8.442	84.80%	11.803	≤ 15.00	Pass
11ax-HE20	MCS0	48	5240	7.581	8.470	84.80%	11.775	≤ 15.00	Pass
11ax-HE20	MCS0	52	5260	4.894	5.344	84.80%	8.851	≤ 9.00	Pass
11ax-HE20	MCS0	60	5300	5.091	5.107	84.80%	8.825	≤ 9.00	Pass
11ax-HE20	MCS0	64	5320	4.620	4.788	84.80%	8.431	≤ 9.00	Pass
11ax-HE20	MCS0	100	5500	4.231	4.555	84.80%	8.122	≤ 9.00	Pass
11ax-HE20	MCS0	116	5580	4.690	5.290	84.80%	8.727	≤ 9.00	Pass
11ax-HE20	MCS0	140	5700	3.173	2.743	84.80%	6.690	≤ 9.00	Pass
11ax-HE20	MCS0	144	5720	5.059	3.848	84.80%	8.222	≤ 9.00	Pass

Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11ax-HE40	MCS0	38	5190	4.037	4.552	85.40%	7.998	≤ 15.00	Pass
11ax-HE40	MCS0	46	5230	7.443	8.197	85.40%	11.532	≤ 15.00	Pass
11ax-HE40	MCS0	54	5270	3.178	3.414	85.40%	6.993	≤ 9.00	Pass
11ax-HE40	MCS0	62	5310	3.798	4.340	85.40%	7.773	≤ 9.00	Pass
11ax-HE40	MCS0	102	5510	3.958	3.810	85.40%	7.580	≤ 9.00	Pass
11ax-HE40	MCS0	110	5550	2.840	3.583	85.40%	6.923	≤ 9.00	Pass
11ax-HE40	MCS0	134	5670	3.533	3.031	85.40%	6.985	≤ 9.00	Pass
11ax-HE40	MCS0	142	5710	3.473	2.897	85.40%	6.890	≤ 9.00	Pass
11ax-HE80	MCS0	42	5210	-0.534	-0.083	85.69%	3.378	≤ 15.00	Pass
11ax-HE80	MCS0	58	5290	-0.735	0.240	85.69%	3.461	≤ 9.00	Pass
11ax-HE80	MCS0	106	5530	-0.706	0.452	85.69%	3.592	≤ 9.00	Pass
11ax-HE80	MCS0	122	5610	1.347	1.189	85.69%	4.950	≤ 9.00	Pass
11ax-HE80	MCS0	122	5690	1.343	1.223	85.69%	4.964	≤ 9.00	Pass
11ax-HE160	MCS0	50	5250	-4.074	-4.432	86.84%	-0.626	≤ 9.00	Pass
11ax-HE160	MCS0	114	5570	-7.117	-7.118	86.84%	-3.494	≤ 9.00	Pass

Note 1: 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:

For 5150 - 5250 MHz Band: PSD Limit (dBm/MHz) = 17 - (8.00 - 6) = 15.00 dBm/MHz.

For 5250 - 5350 MHz and 5470 - 5725 MHz Band: PSD Limit (dBm/MHz) = 11 - (8.00 - 6) = 9.00 dBm/MHz.

Product	AX3000 Indoor/Outdoor Wi-Fi 6 Access Point	Test Engineer	Peter
Test Site	SR6	Test Date	2024/12/27~2025/1/19
Test Item	Power Spectral Density (U-NII-3) _ Wi-Fi Antenna_Low Gain		

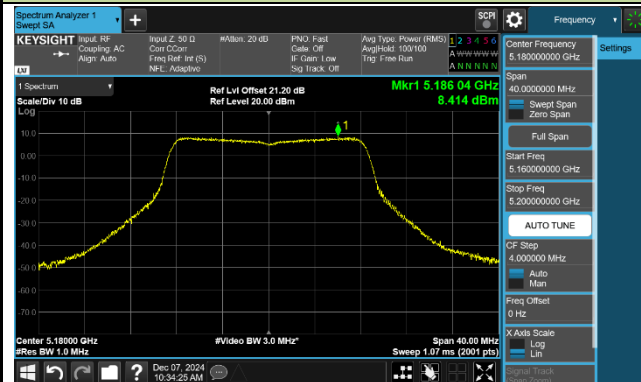
Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/510KHz)	Ant 1 PSD (dBm/510KHz)	Duty Cycle (%)	Total PSD (dBm/ 510kHz)	Limit (dBm/ 500kHz)	Result
11a	6Mbps	149	5745	9.521	9.388	97.77%	12.563	≤ 28.00	Pass
11a	6Mbps	157	5785	9.106	9.345	97.77%	12.335	≤ 28.00	Pass
11a	6Mbps	165	5825	8.893	9.077	97.77%	12.094	≤ 28.00	Pass
11ac-VHT20	MCS0	149	5745	7.850	8.557	86.48%	11.859	≤ 28.00	Pass
11ac-VHT20	MCS0	157	5785	8.252	8.204	86.48%	11.869	≤ 28.00	Pass
11ac-VHT20	MCS0	165	5825	7.907	8.044	86.48%	11.617	≤ 28.00	Pass
11ac-VHT40	MCS0	151	5755	5.229	4.695	85.56%	8.658	≤ 28.00	Pass
11ac-VHT40	MCS0	159	5795	4.940	5.370	85.56%	8.848	≤ 28.00	Pass
11ac-VHT80	MCS0	155	5775	-1.962	-1.900	85.42%	1.764	≤ 28.00	Pass
11ax-HE20	MCS0	149	5745	8.410	8.487	84.80%	12.175	≤ 28.00	Pass
11ax-HE20	MCS0	157	5785	8.093	8.216	84.80%	11.881	≤ 28.00	Pass
11ax-HE20	MCS0	165	5825	8.232	7.923	84.80%	11.807	≤ 28.00	Pass
11ax-HE40	MCS0	151	5755	4.847	5.369	85.40%	8.812	≤ 28.00	Pass
11ax-HE40	MCS0	159	5795	5.162	5.261	85.40%	8.908	≤ 28.00	Pass
11ax-HE80	MCS0	155	5775	-1.577	-1.536	85.69%	2.125	≤ 28.00	Pass

Note 1: The total PSD (dBm/510kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/510kHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

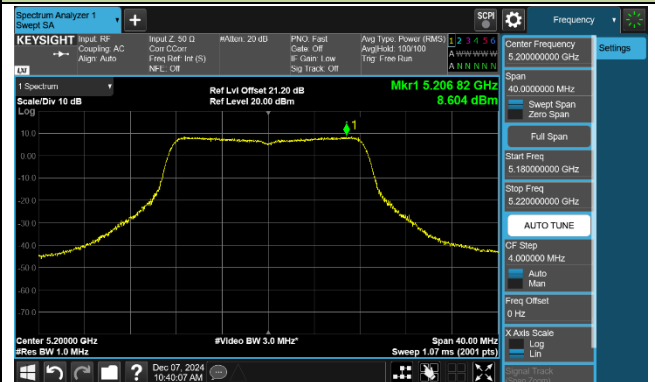
Note 2: PSD Limit (dBm/500kHz) = 30 - (8.00 - 6) = 28.00 (dBm/500kHz).

802.11a Power Spectral Density - Ant 0

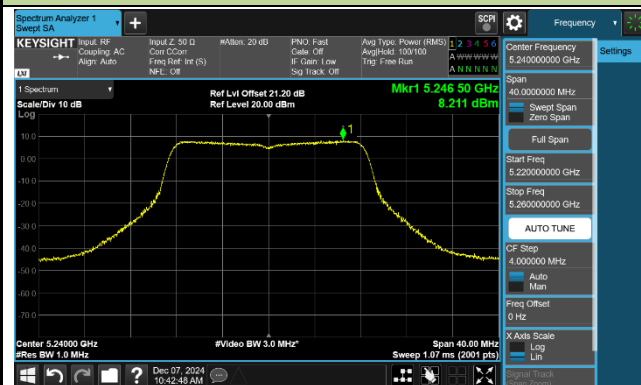
Channel 36 (5180MHz)



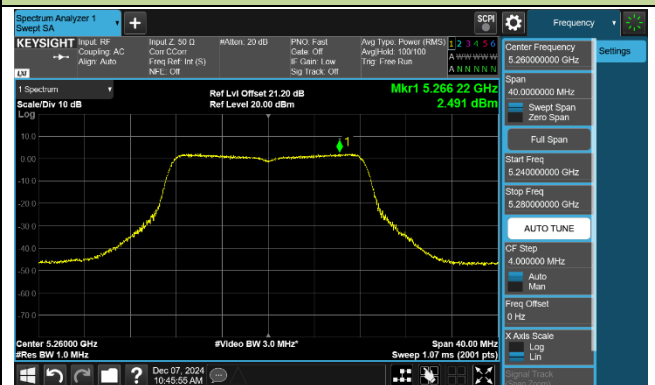
Channel 40 (5200MHz)



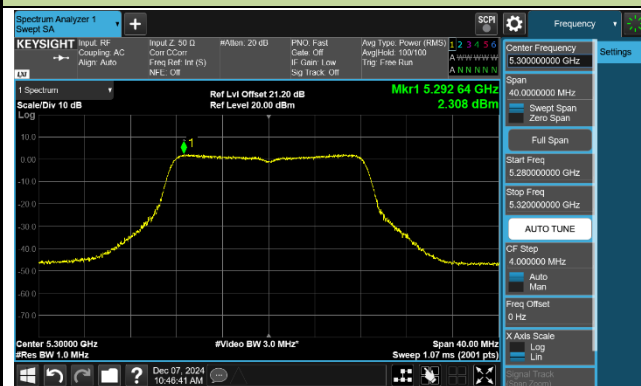
Channel 48 (5240MHz)



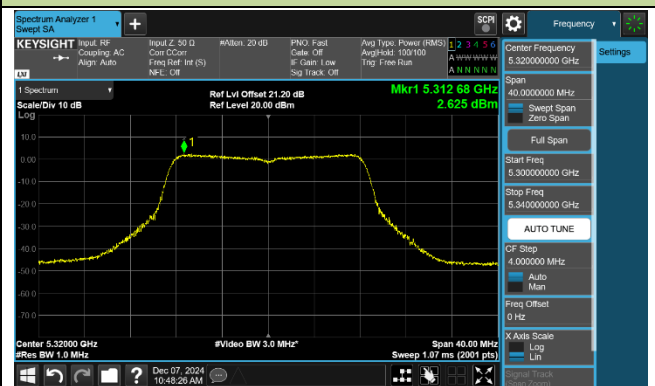
Channel 52 (5260MHz)



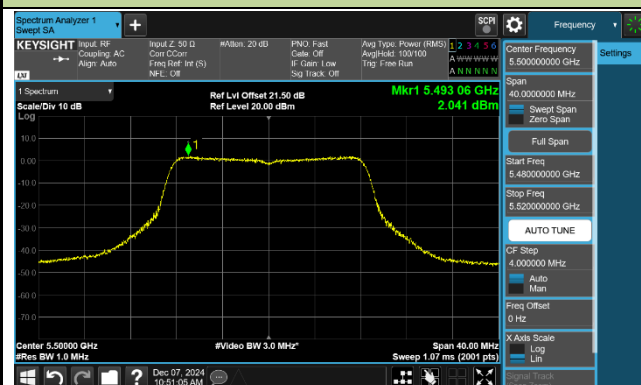
Channel 60 (5300MHz)



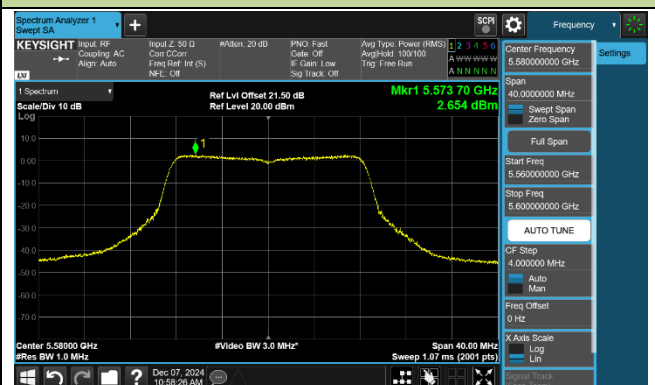
Channel 64 (5320MHz)

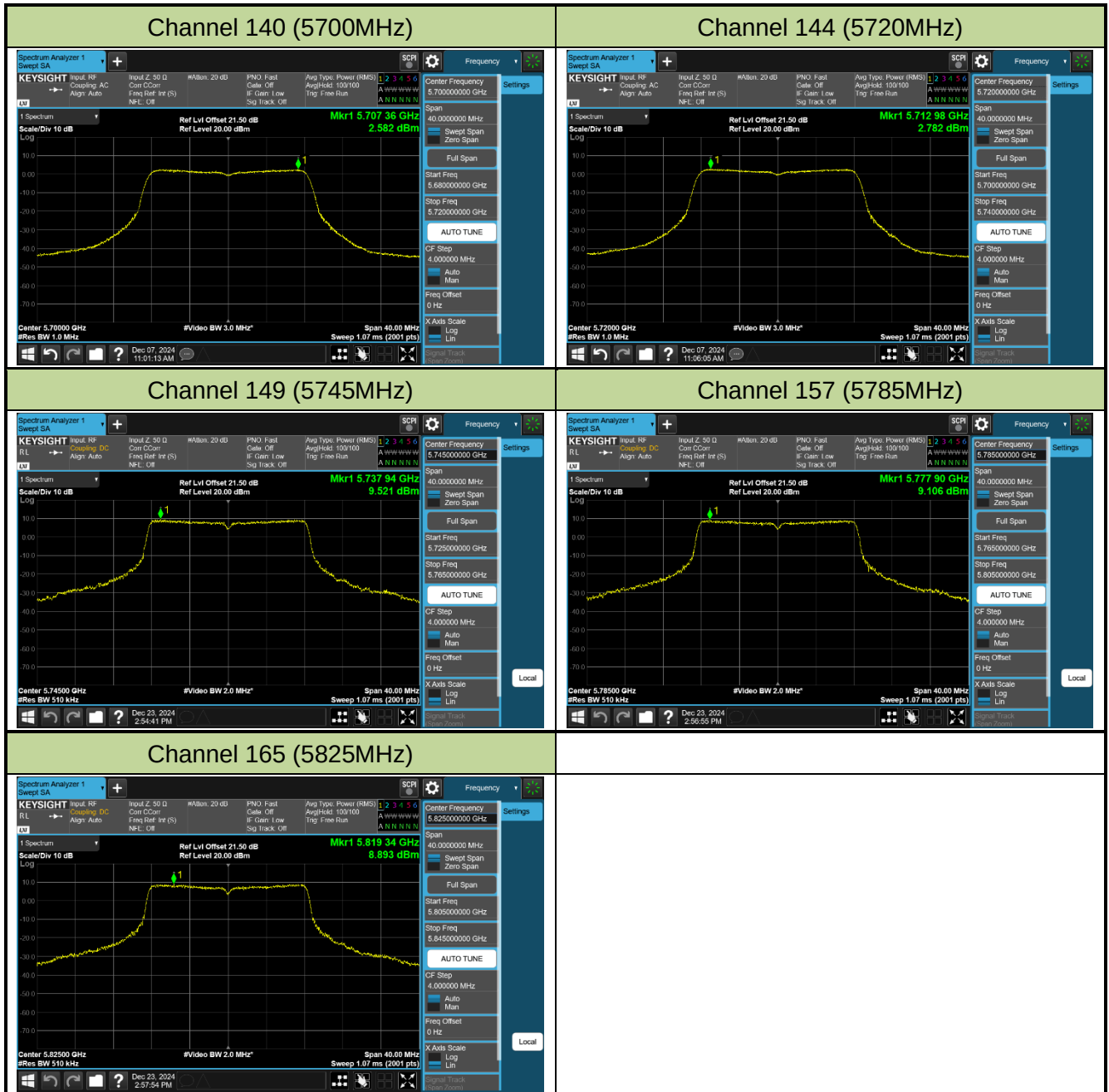


Channel 100 (5500MHz)



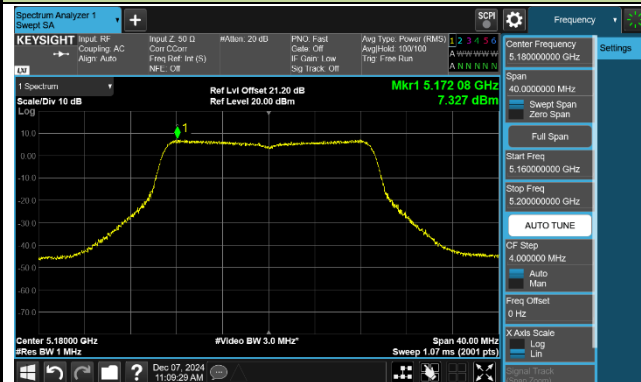
Channel 116 (5580MHz)



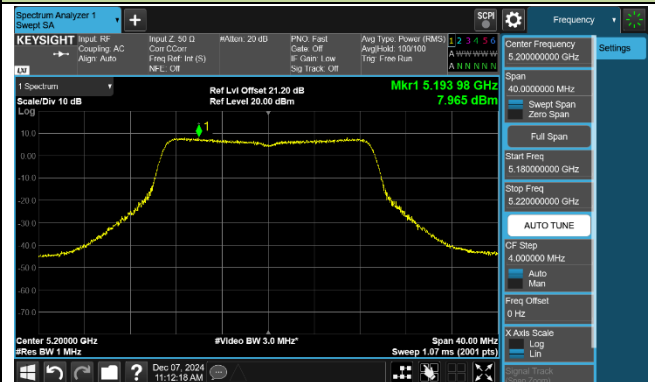


802.11ac-VHT20 Power Spectral Density - Ant 0

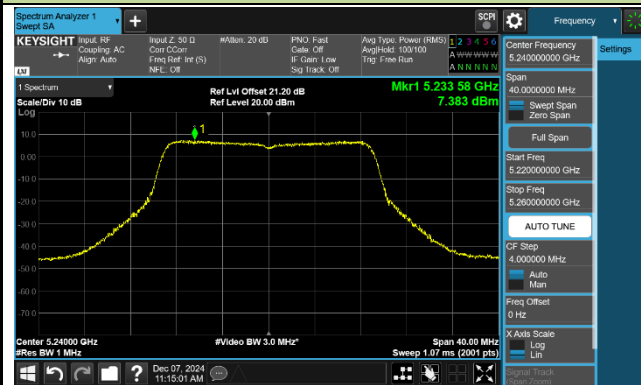
Channel 36 (5180MHz)



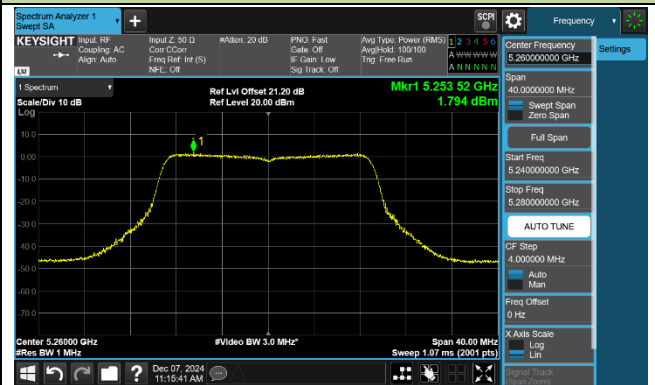
Channel 40 (5200MHz)



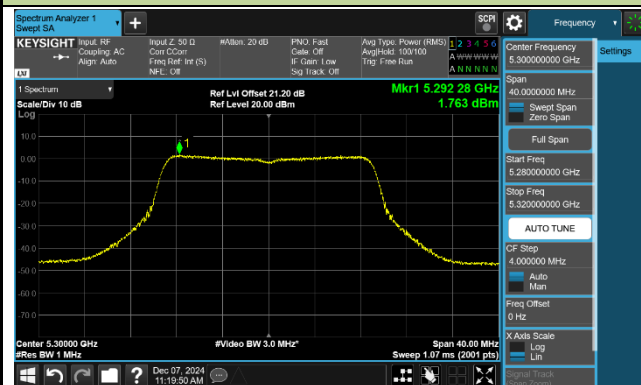
Channel 48 (5240MHz)



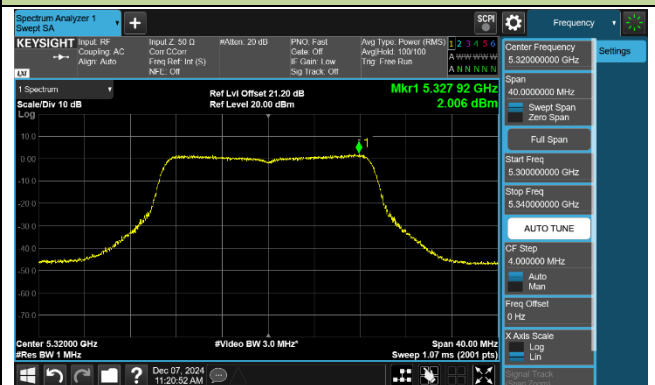
Channel 52 (5260MHz)



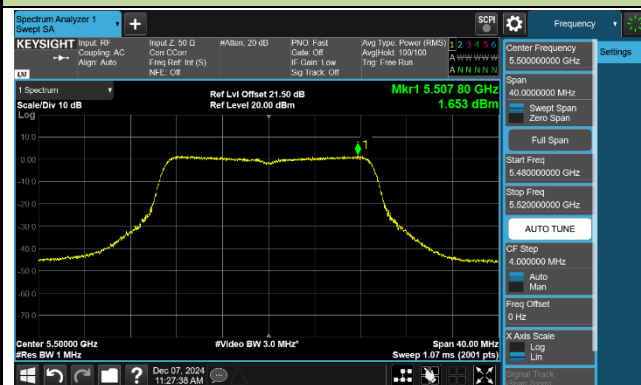
Channel 60 (5300MHz)



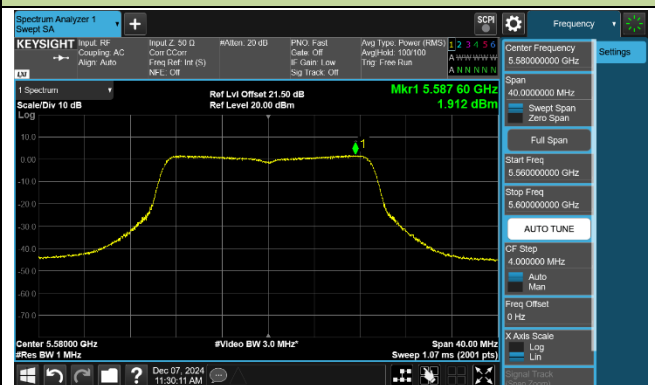
Channel 64 (5320MHz)

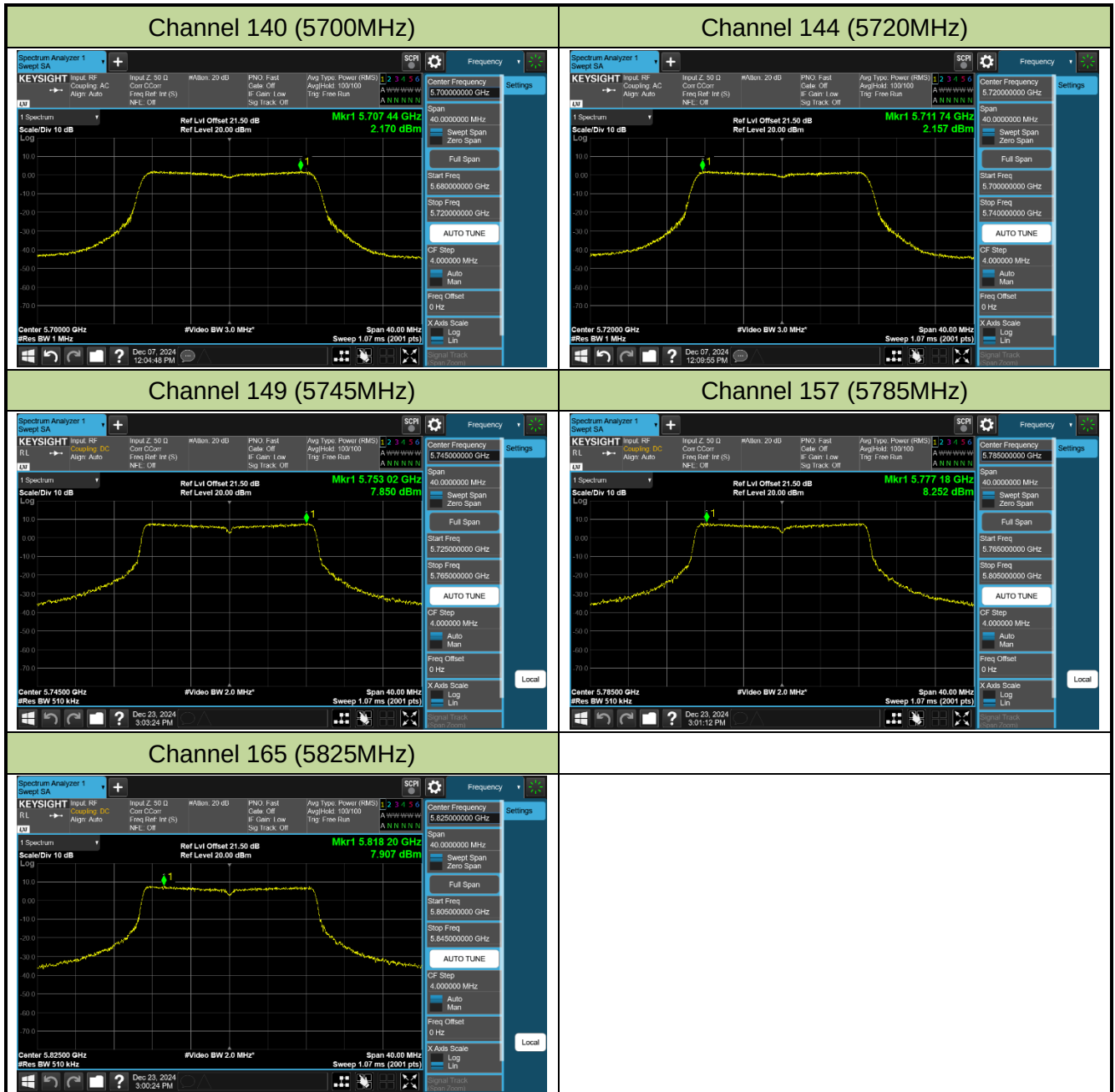


Channel 100 (5500MHz)



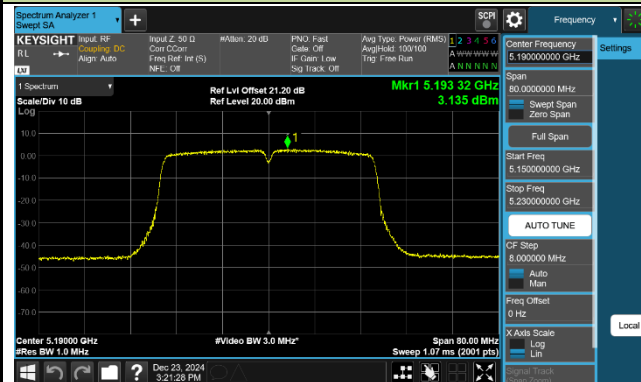
Channel 116 (5580MHz)



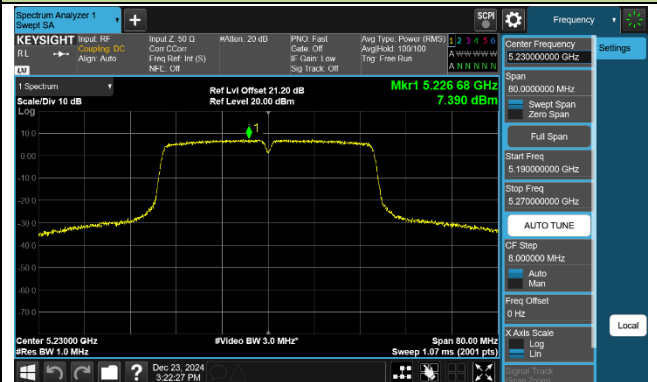


802.11ac-VHT40 Power Spectral Density - Ant 0

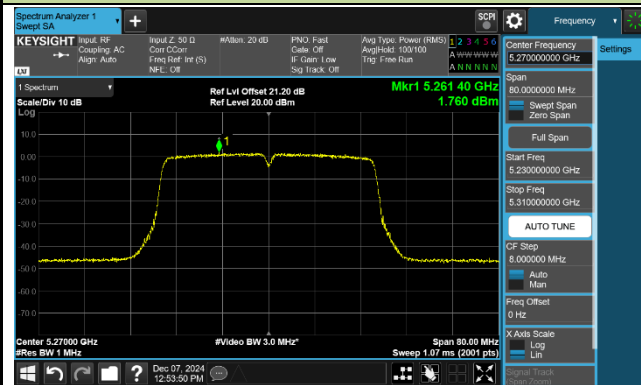
Channel 38 (5190MHz)



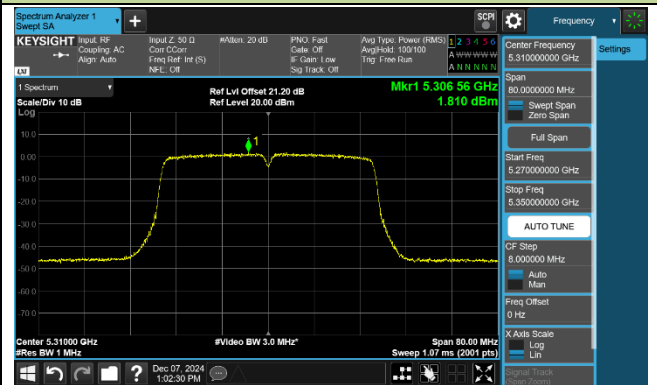
Channel 46 (5230MHz)



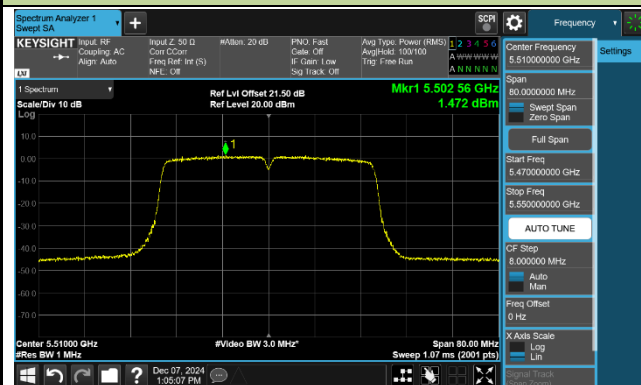
Channel 54 (5270MHz)



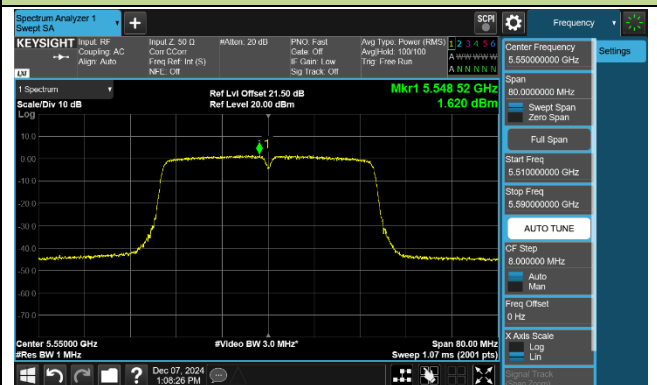
Channel 62 (5310MHz)



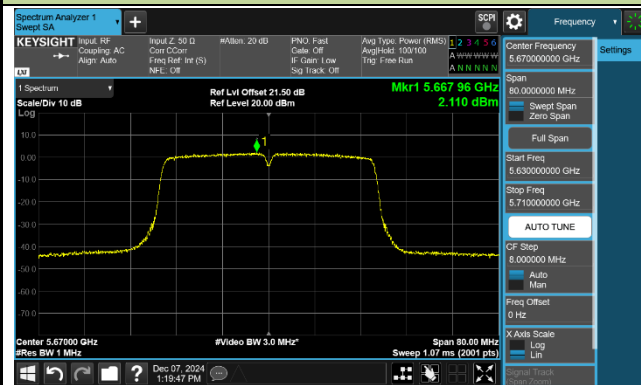
Channel 102 (5510MHz)



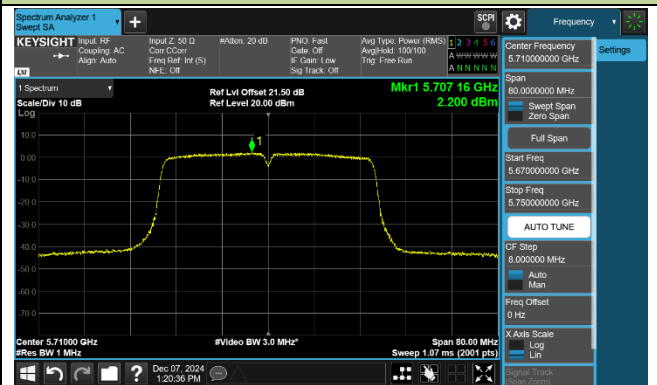
Channel 110 (5550MHz)

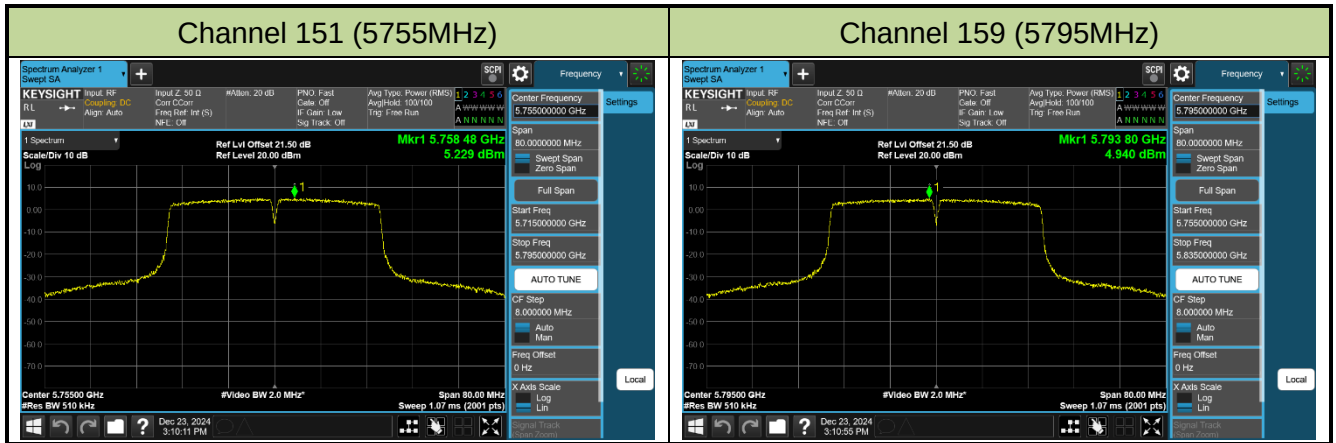


Channel 134 (5670MHz)



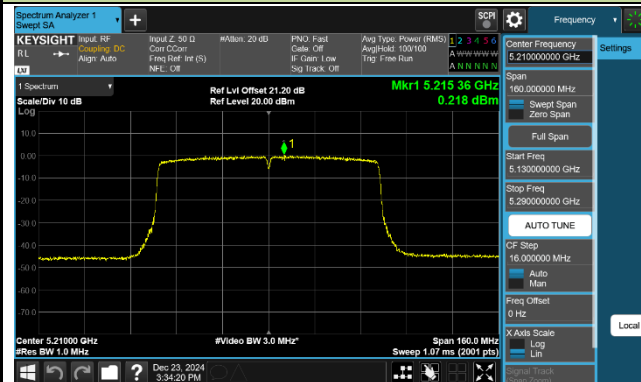
Channel 142 (5710MHz)



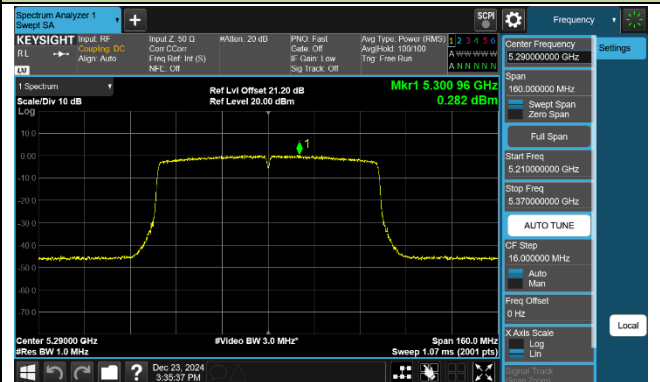


802.11ac-VHT80 Power Spectral Density - Ant 0

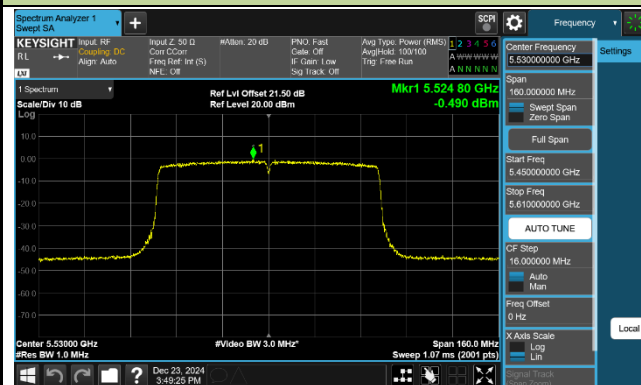
Channel 42 (5210MHz)



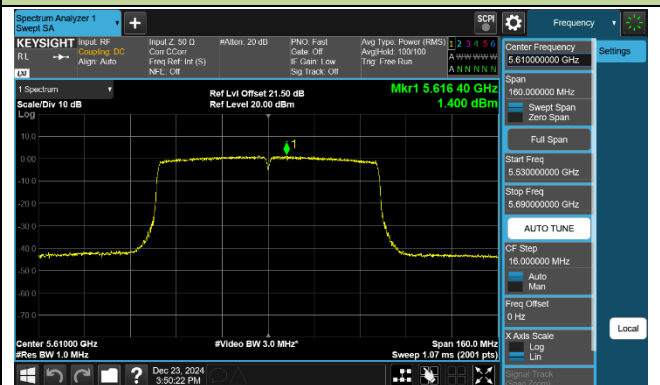
Channel 58 (5290MHz)



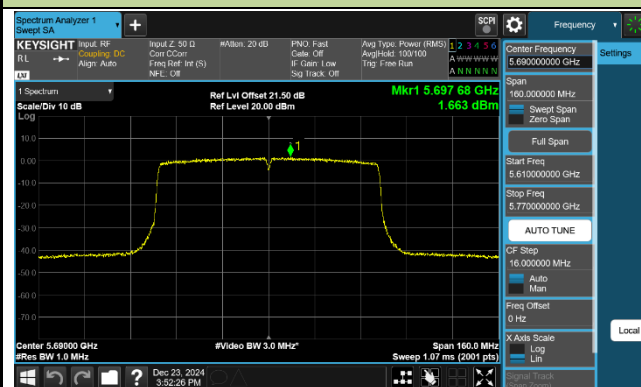
Channel 106 (5530MHz)



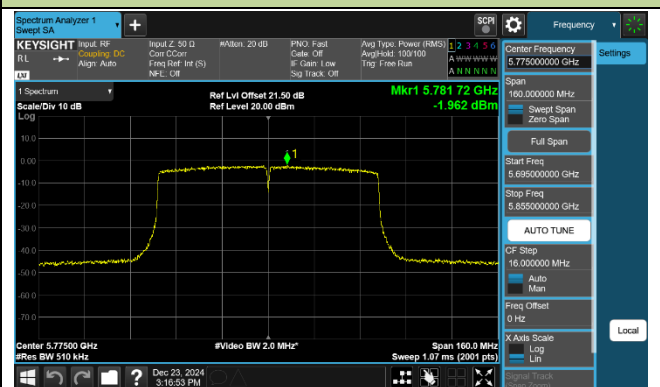
Channel 122 (5610MHz)



Channel 138 (5690MHz)

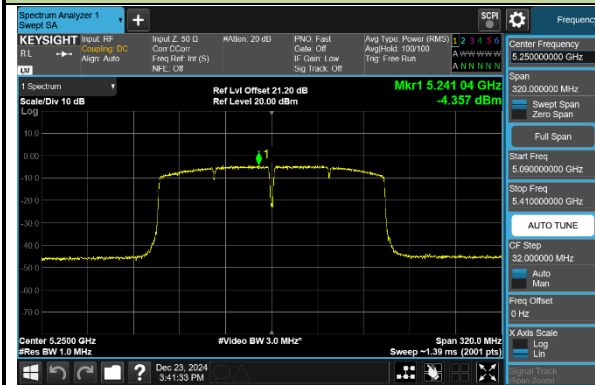


Channel 155 (5775MHz)

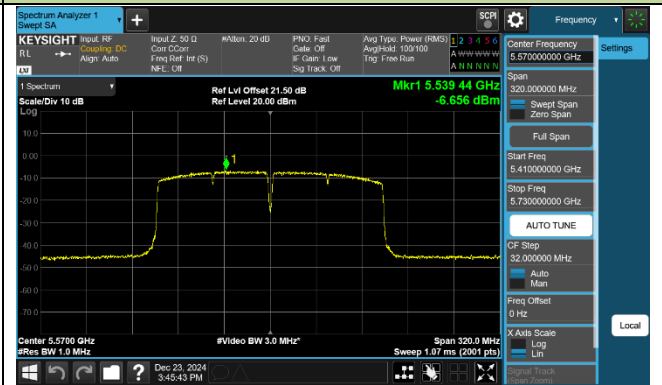


802.11ac-VHT160 Power Spectral Density - Ant 0

Channel 50 (5250MHz)

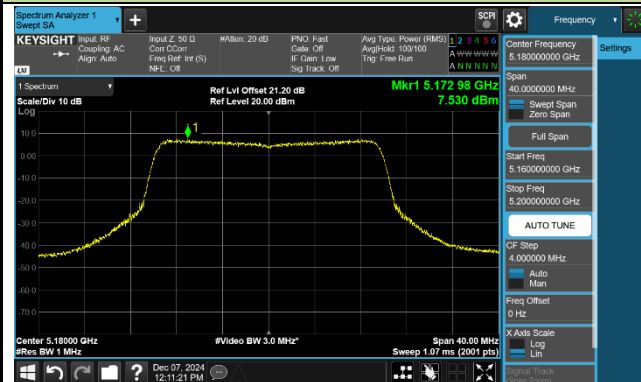


Channel 114 (5570MHz)

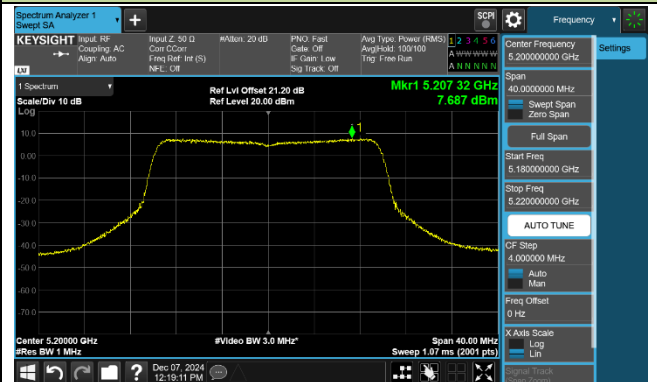


802.11ax-HE20 Power Spectral Density - Ant 0

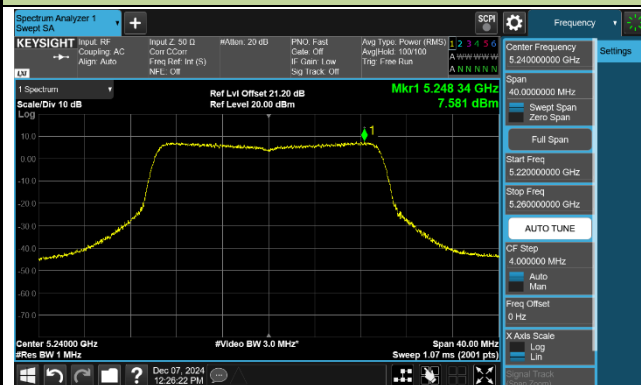
Channel 36 (5180MHz)



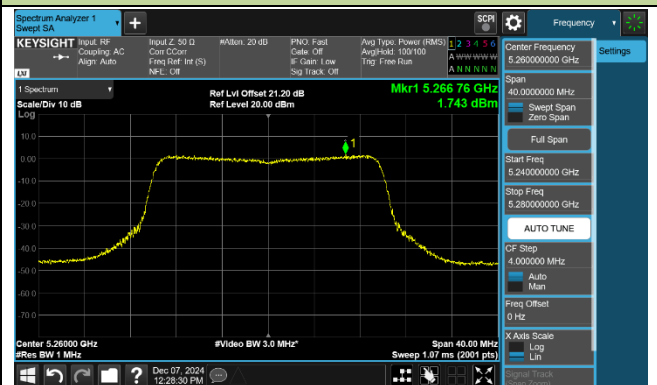
Channel 40 (5200MHz)



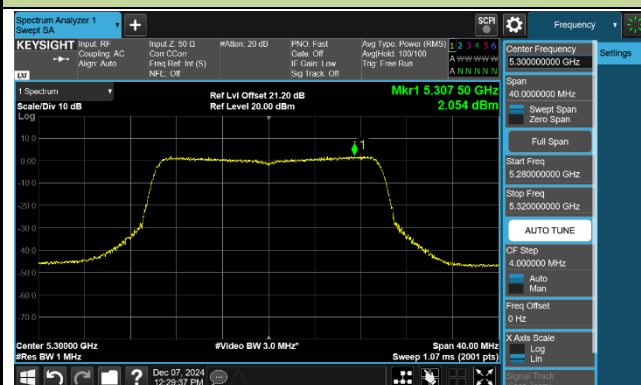
Channel 48 (5240MHz)



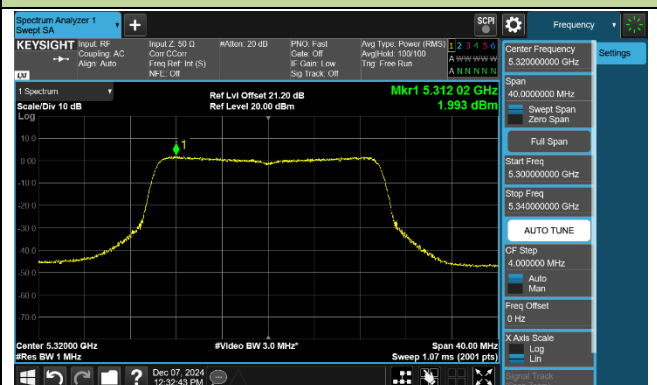
Channel 52 (5260MHz)



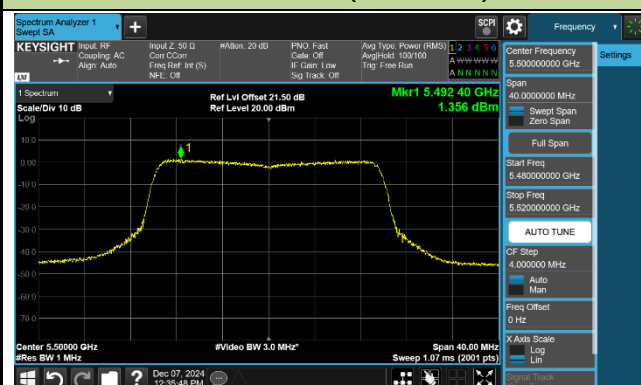
Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)

