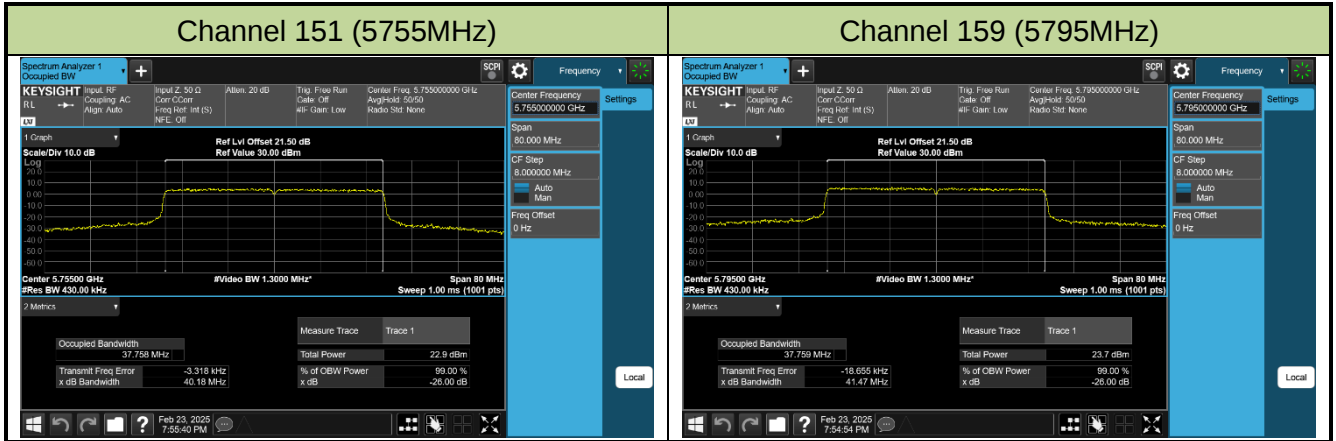
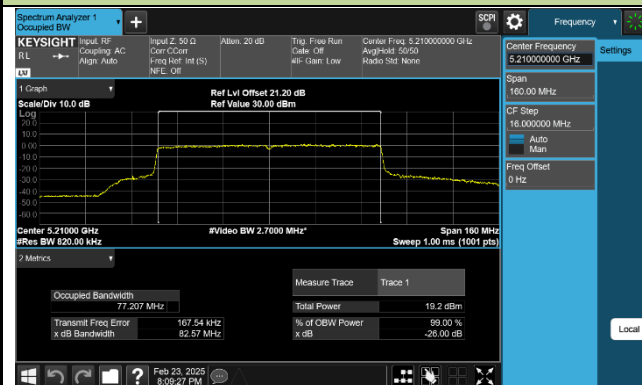


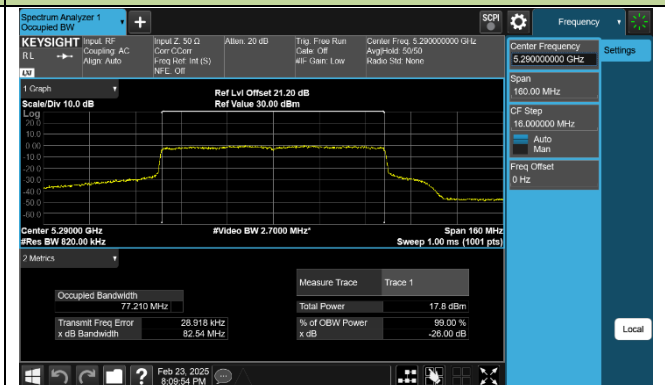


802.11ax-HE80 26dB Bandwidth & 99% Bandwidth

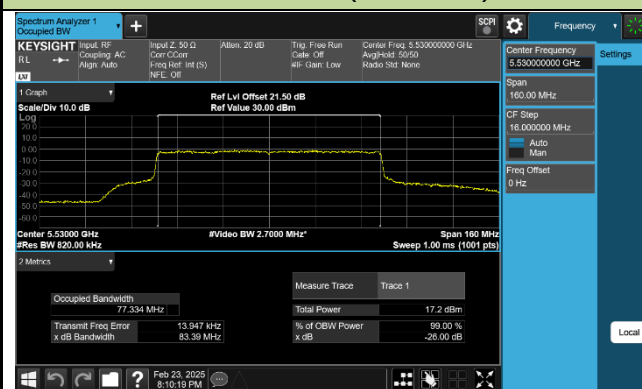
Channel 42 (5210MHz)



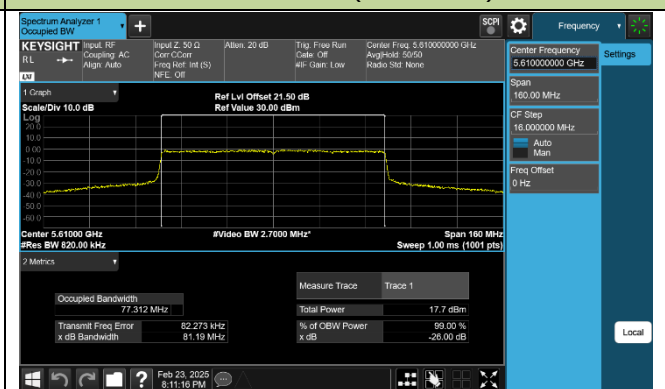
Channel 58 (5290MHz)



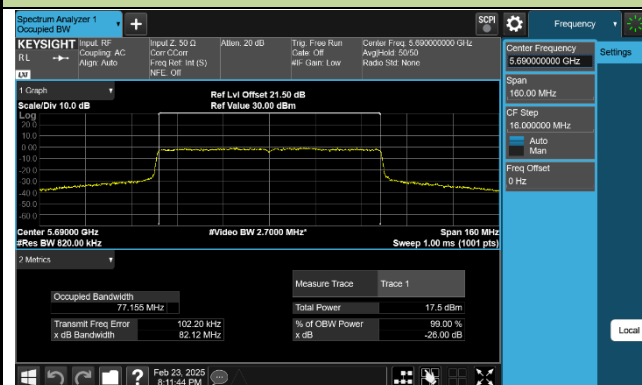
Channel 106 (5530MHz)



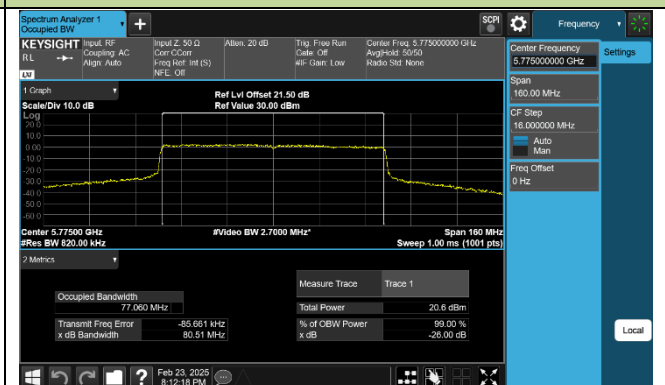
Channel 122 (5610MHz)



Channel 138 (5690MHz)

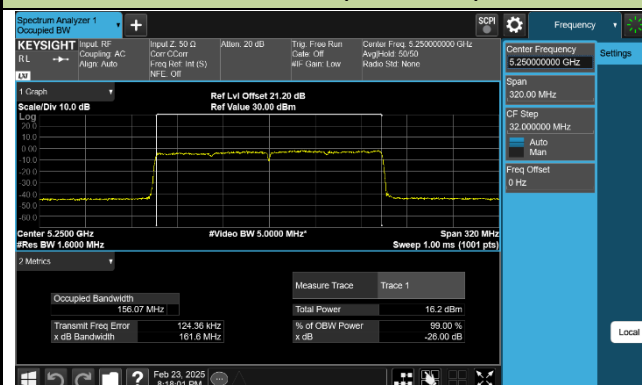


Channel 155 (5775MHz)

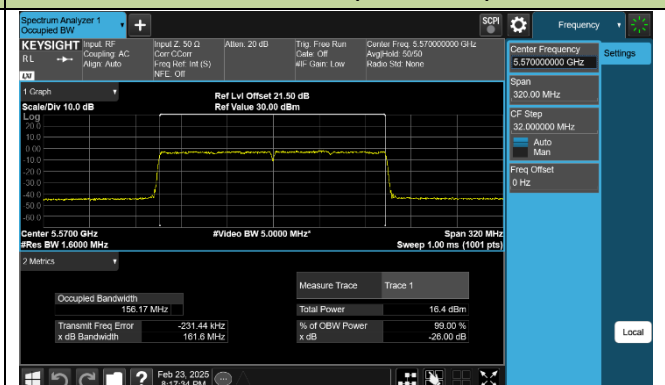


802.11ax-HE160 26dB Bandwidth & 99% Bandwidth

Channel 50 (5250MHz)

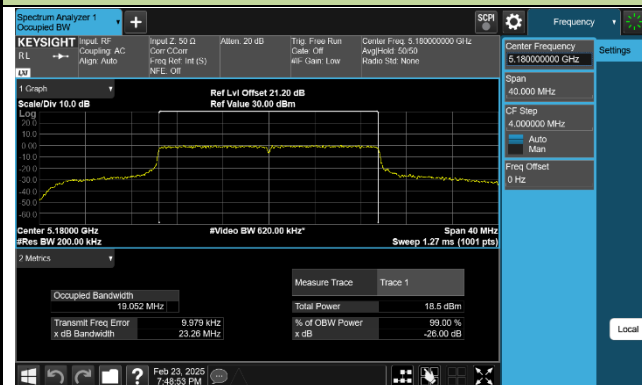


Channel 114 (5570MHz)

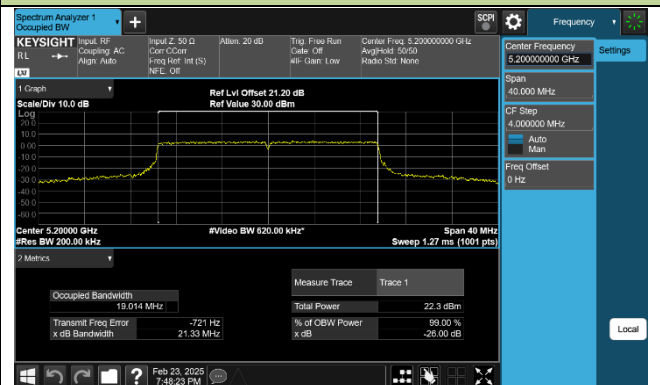


802.11be-EHT20 26dB Bandwidth & 99% Bandwidth

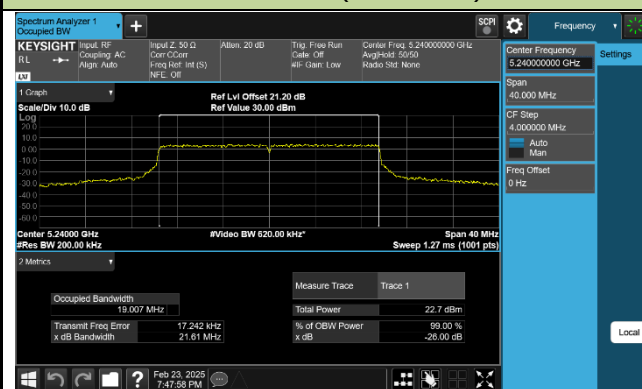
Channel 36 (5180MHz)



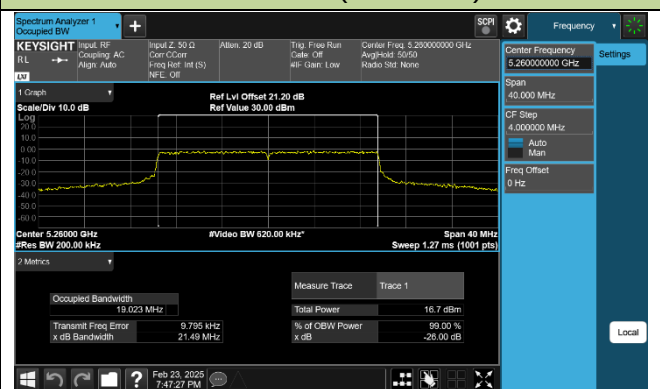
Channel 40 (5200MHz)



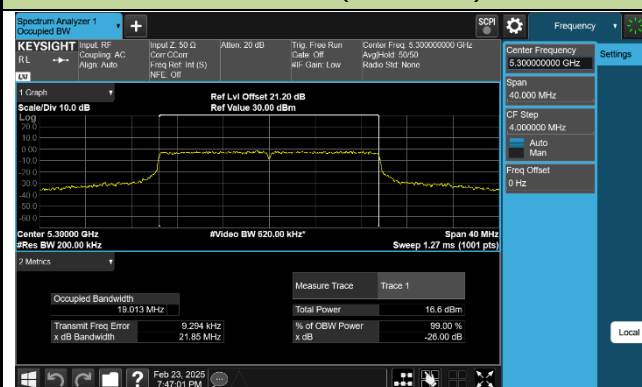
Channel 48 (5240MHz)



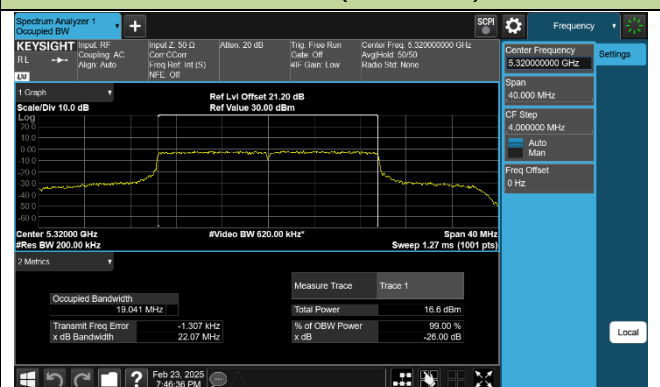
Channel 52 (5260MHz)



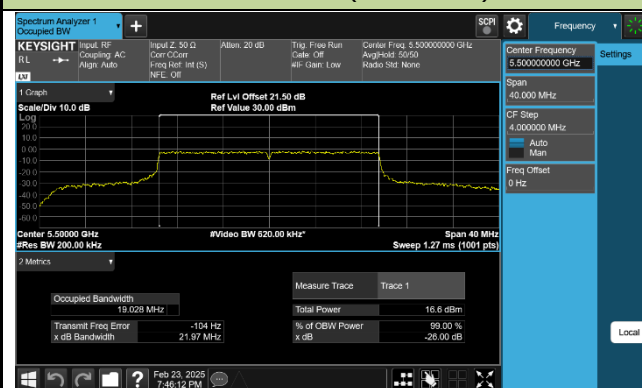
Channel 60 (5300MHz)



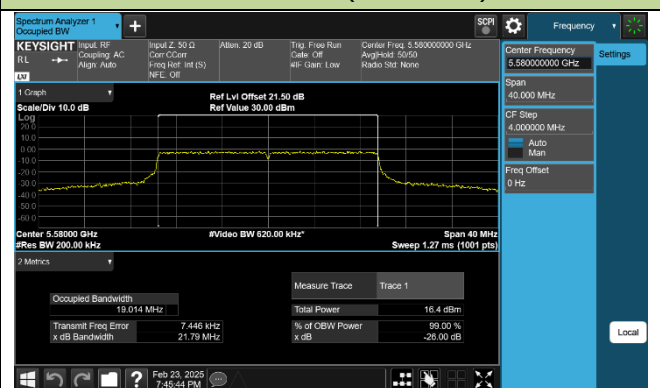
Channel 64 (5320MHz)

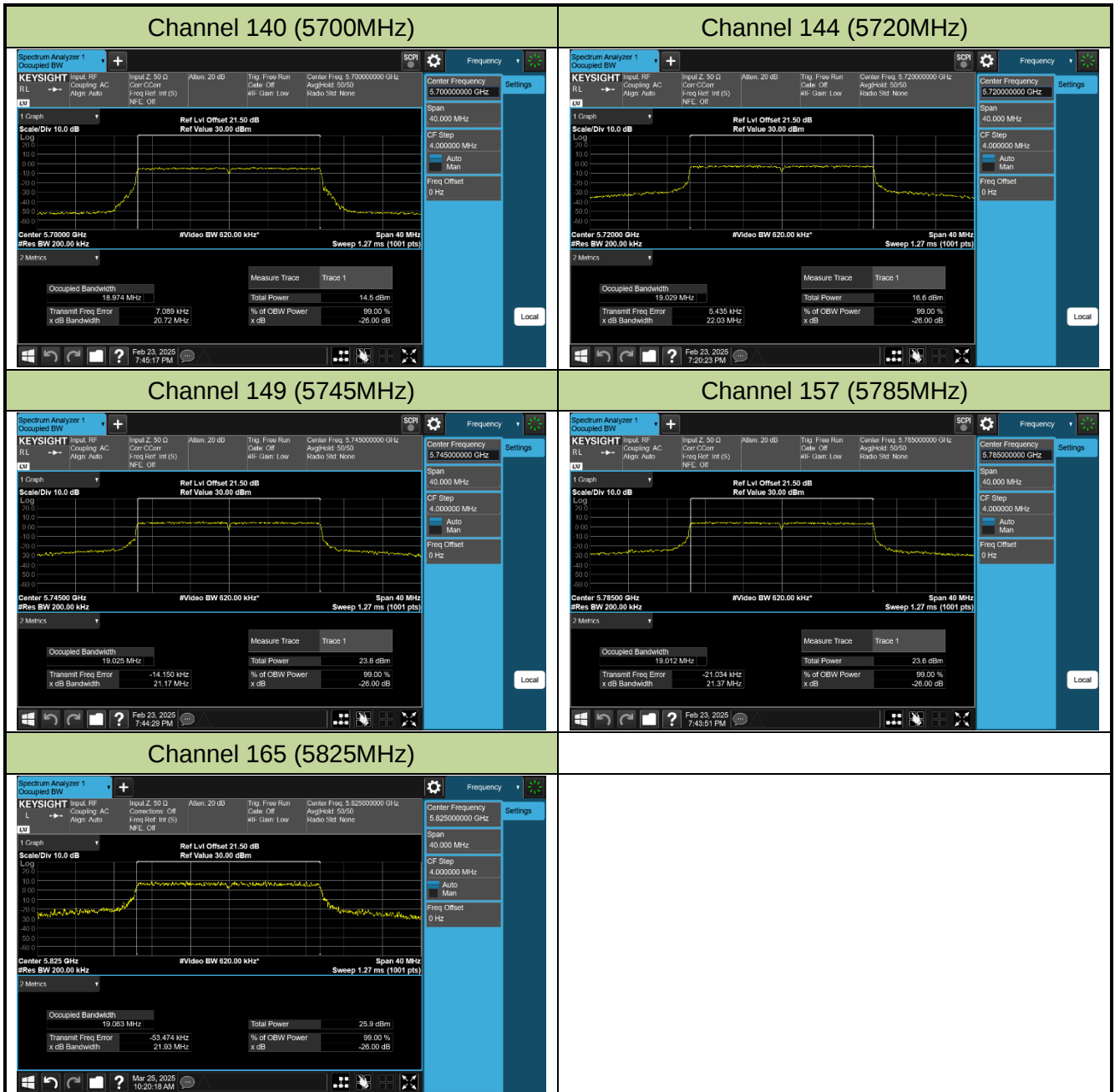


Channel 100 (5500MHz)



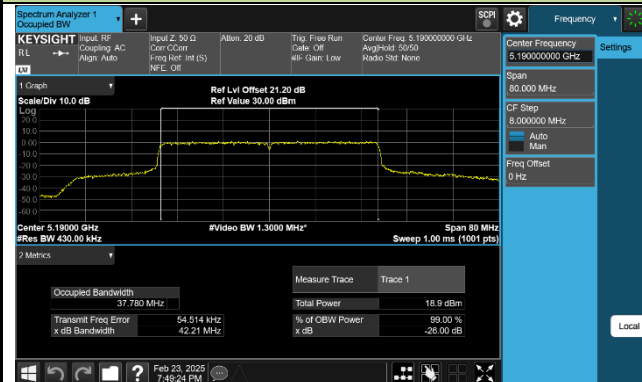
Channel 116 (5580MHz)



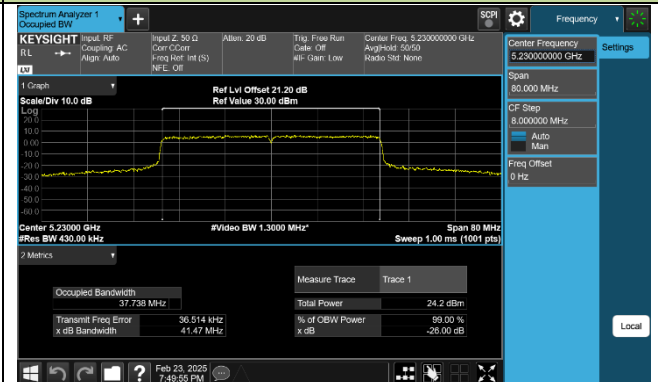


802.11be-EHT40 26dB Bandwidth & 99% Bandwidth

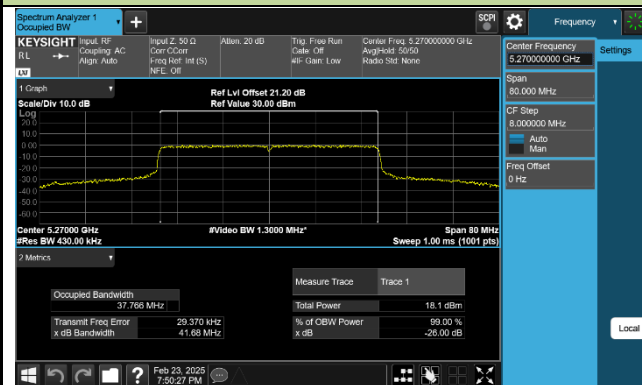
Channel 38 (5190MHz)



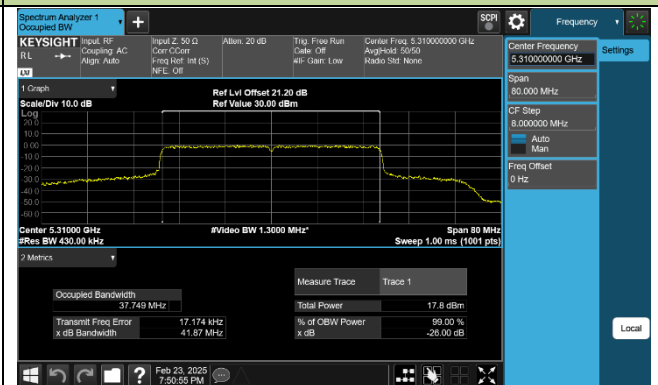
Channel 46 (5230MHz)



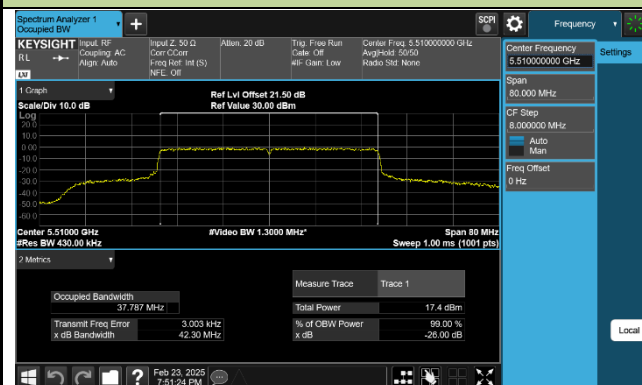
Channel 54 (5270MHz)



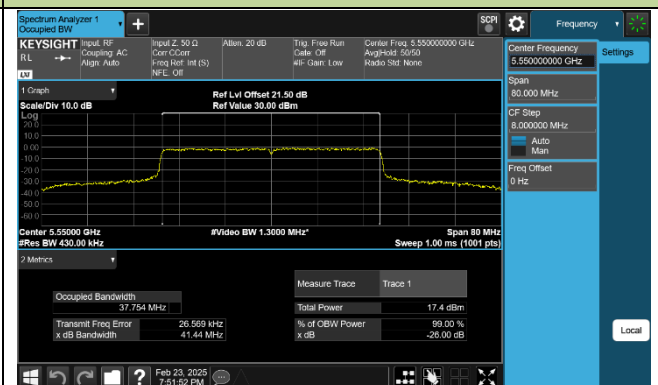
Channel 62 (5310MHz)



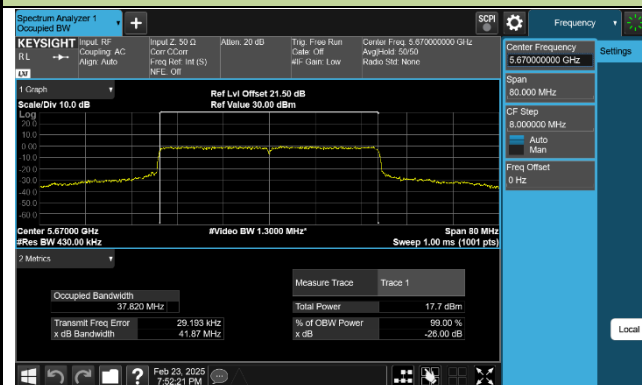
Channel 102 (5510MHz)



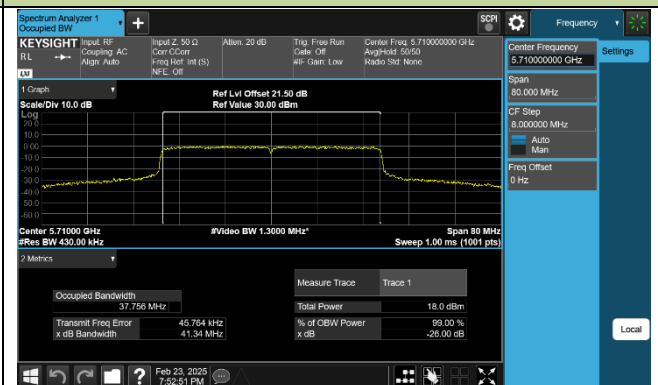
Channel 110 (5550MHz)

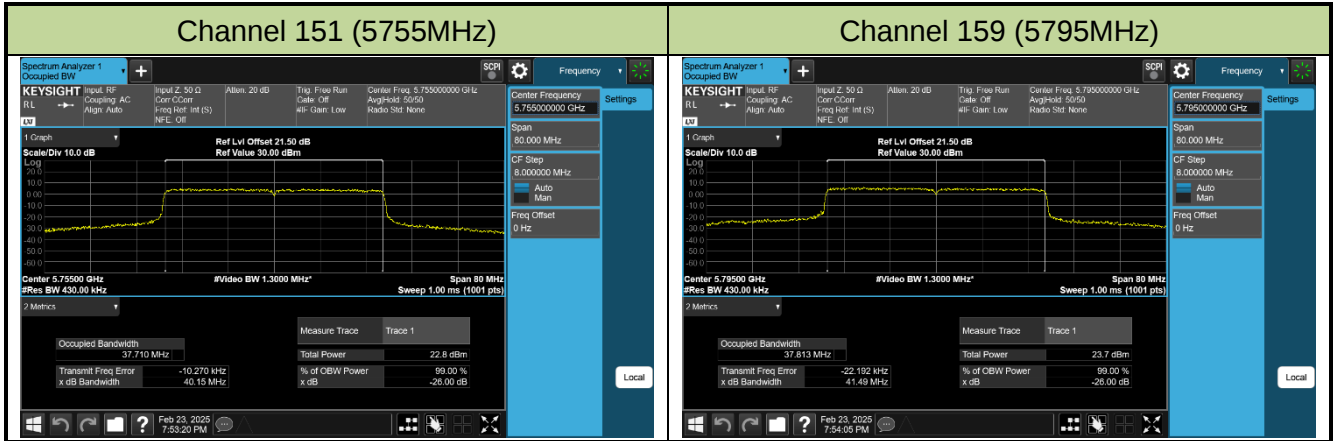


Channel 134 (5670MHz)



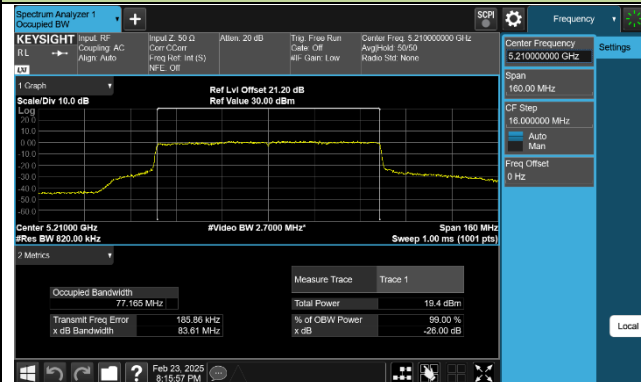
Channel 142 (5710MHz)



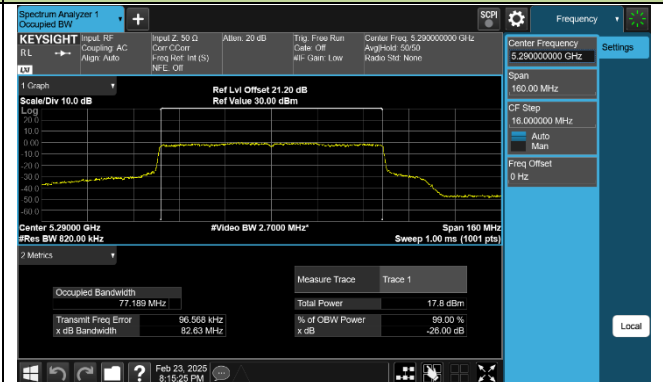


802.11be-EHT80 26dB Bandwidth & 99% Bandwidth

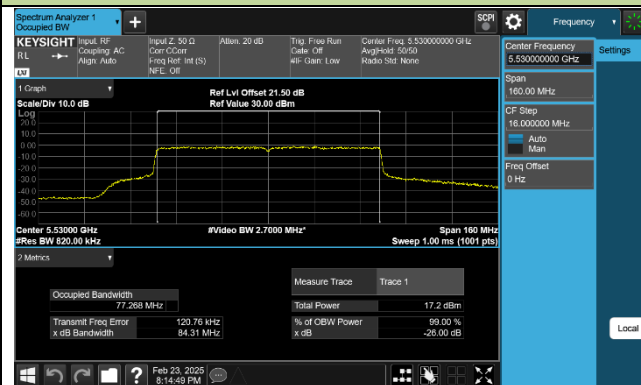
Channel 42 (5210MHz)



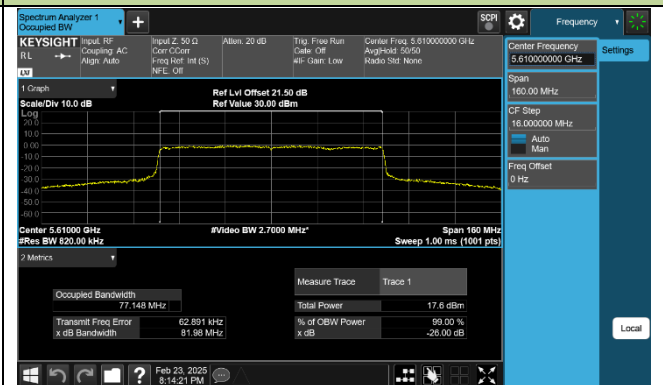
Channel 58 (5290MHz)



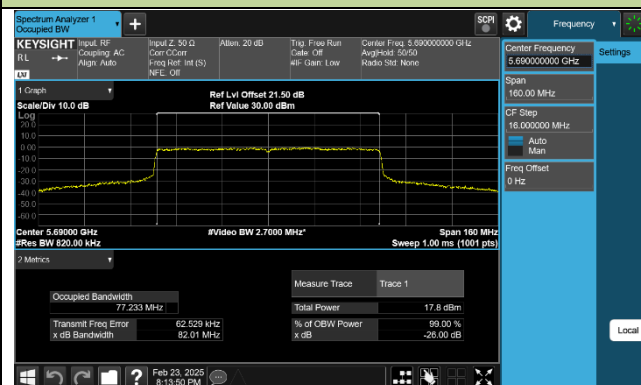
Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)

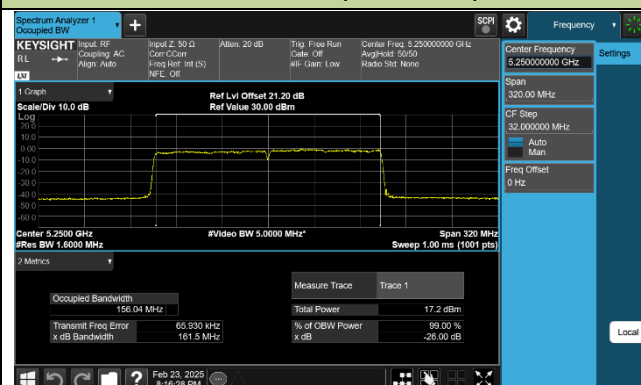


Channel 155 (5775MHz)

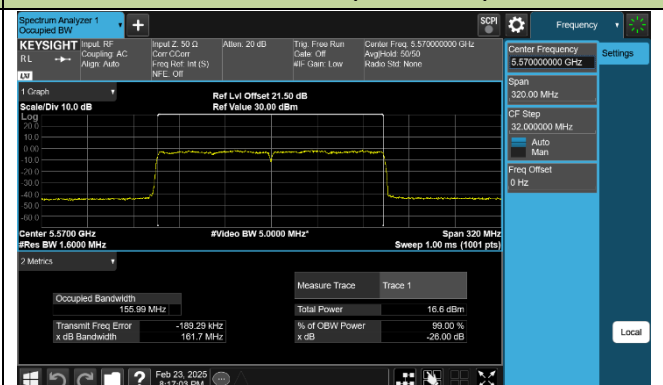


802.11be-EHT160 26dB Bandwidth & 99% Bandwidth

Channel 50 (5250MHz)



Channel 114 (5570MHz)



7.3. 6dB Bandwidth Measurement

7.3.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

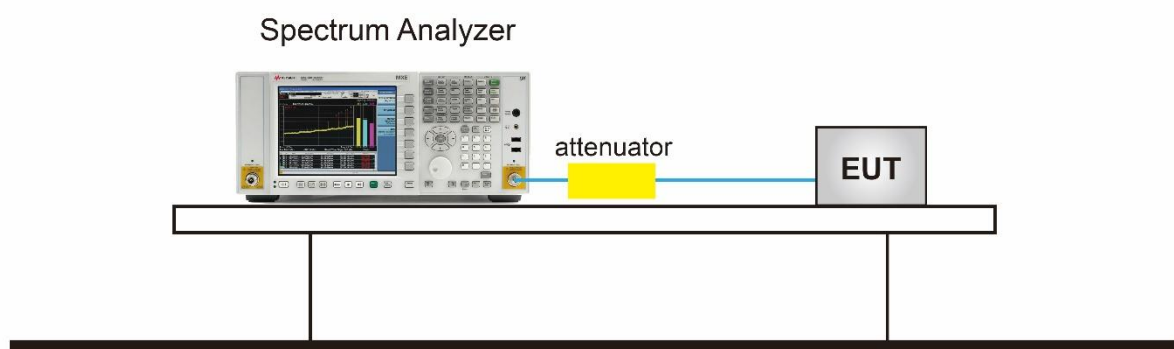
7.3.2. Test Procedure used

KDB 789033 D02v02r01- Section C.2

7.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW $3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.4. Test Setup



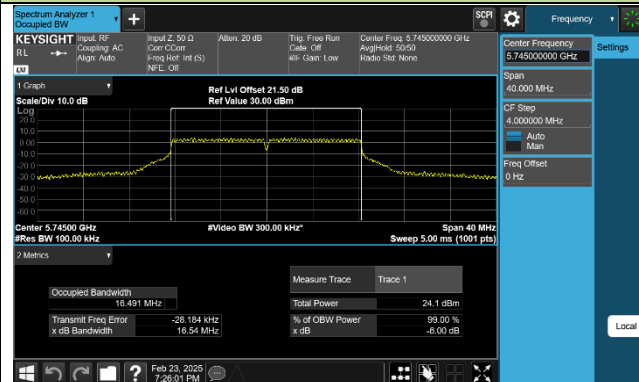
7.3.5.TestResult

Product	WiFi 7 Router	Test Engineer	Marvin
Test Site	SR6	Test Date	2025/2/23

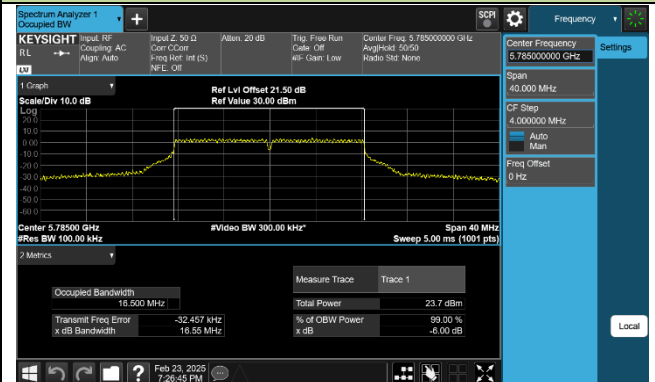
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 3						
802.11a	6Mbps	149	5745	16.54	≥ 0.5	Pass
802.11a	6Mbps	157	5785	16.55	≥ 0.5	Pass
802.11a	6Mbps	165	5825	16.55	≥ 0.5	Pass
802.11ac-VHT20	MCS0	149	5745	17.78	≥ 0.5	Pass
802.11ac-VHT20	MCS0	157	5785	17.81	≥ 0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.81	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	36.56	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	36.56	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	76.48	≥ 0.5	Pass
802.11ax-HE20	MCS0	149	5745	19.19	≥ 0.5	Pass
802.11ax-HE20	MCS0	157	5785	19.18	≥ 0.5	Pass
802.11ax-HE20	MCS0	165	5825	19.18	≥ 0.5	Pass
802.11ax-HE40	MCS0	151	5755	38.19	≥ 0.5	Pass
802.11ax-HE40	MCS0	159	5795	38.19	≥ 0.5	Pass
802.11ax-HE80	MCS0	155	5775	77.87	≥ 0.5	Pass
802.11be-EHT20	MCS0	149	5745	19.19	≥ 0.5	Pass
802.11be-EHT20	MCS0	157	5785	19.18	≥ 0.5	Pass
802.11be-EHT20	MCS0	165	5825	19.18	≥ 0.5	Pass
802.11be-EHT40	MCS0	151	5755	38.17	≥ 0.5	Pass
802.11be-EHT40	MCS0	159	5795	38.17	≥ 0.5	Pass
802.11be-EHT80	MCS0	155	5775	78.05	≥ 0.5	Pass

802.11a 6dB Bandwidth

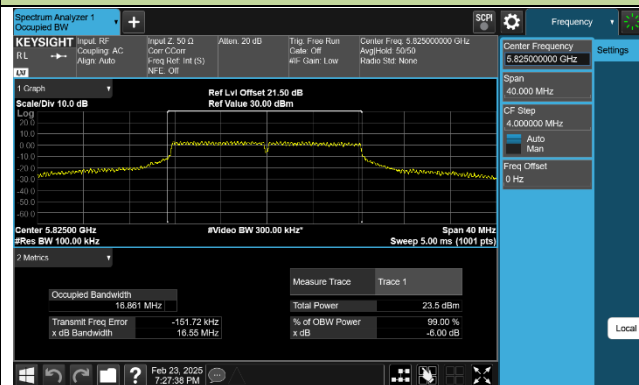
Channel 149 (5745MHz)



Channel 157 (5785MHz)

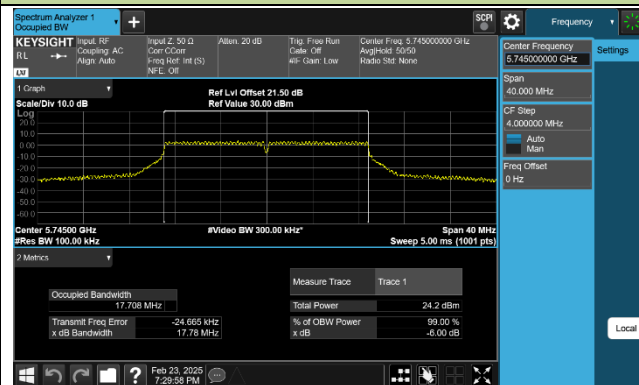


Channel 165 (5825MHz)

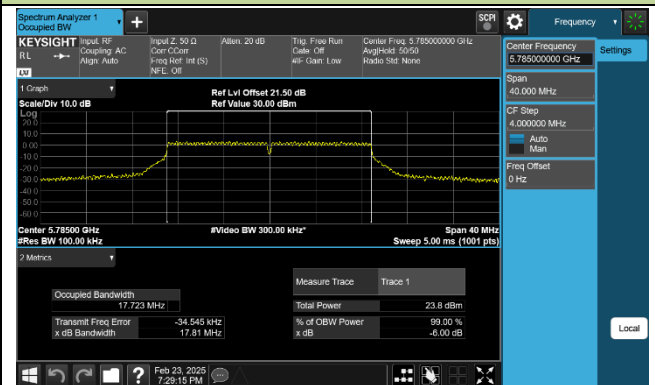


802.11ac-VHT20 6dB Bandwidth

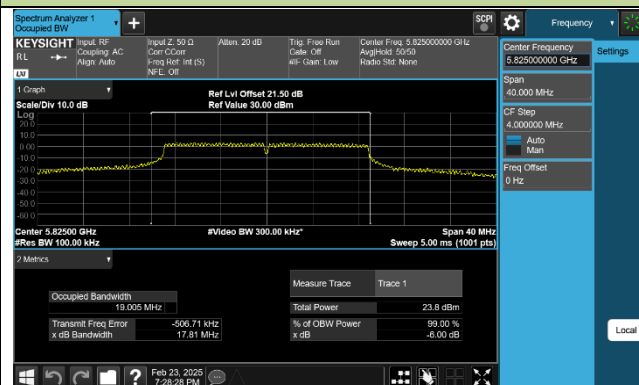
Channel 149 (5745MHz)



Channel 157 (5785MHz)

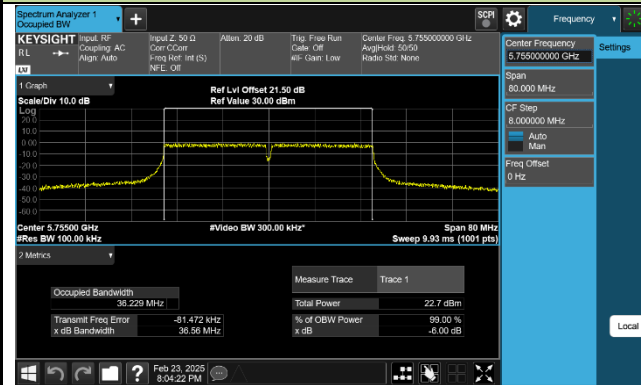


Channel 165 (5825MHz)

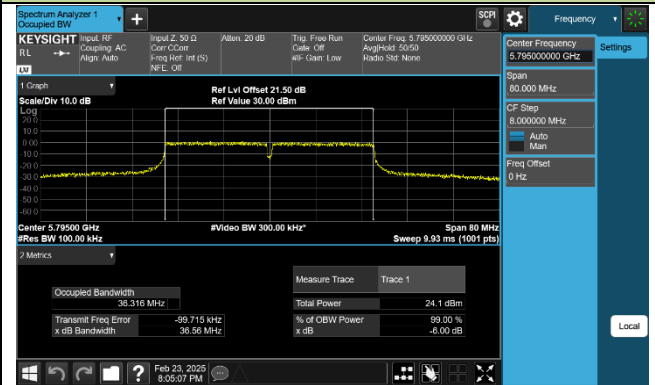


802.11ac-VHT40 6dB Bandwidth

Channel 151 (5755MHz)

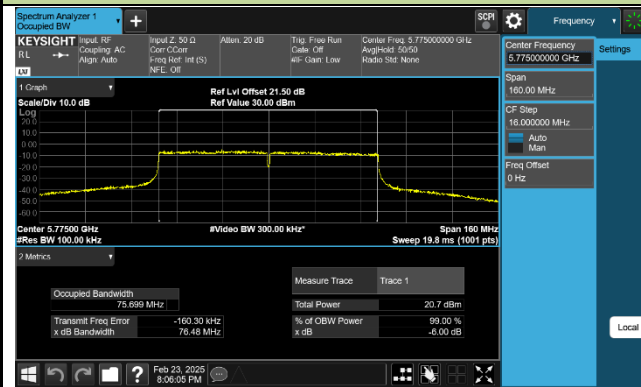


Channel 159 (5795MHz)



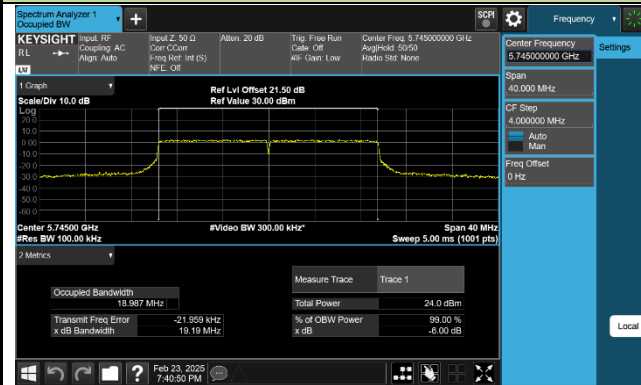
802.11ac-VHT80 6dB Bandwidth

Channel 155 (5775MHz)

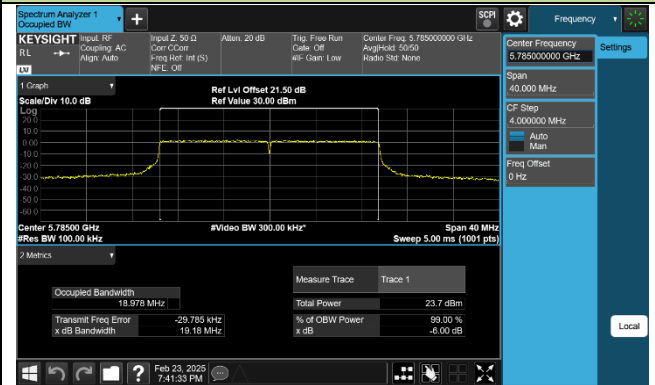


802.11ax-HE20 6dB Bandwidth

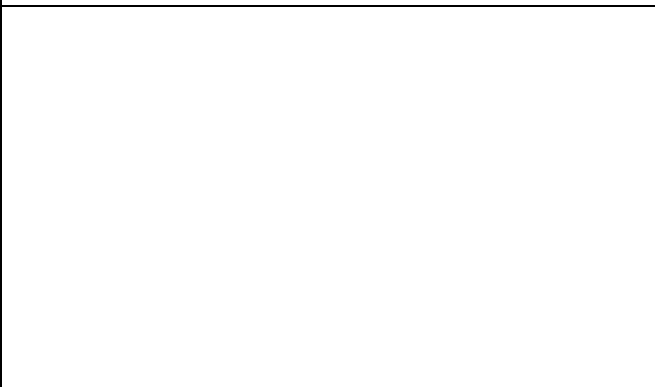
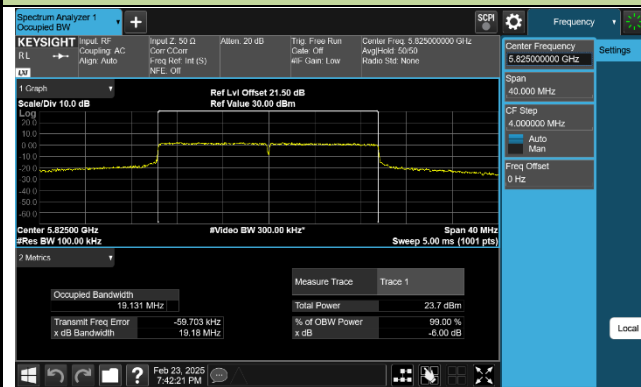
Channel 149 (5745MHz)



Channel 157 (5785MHz)

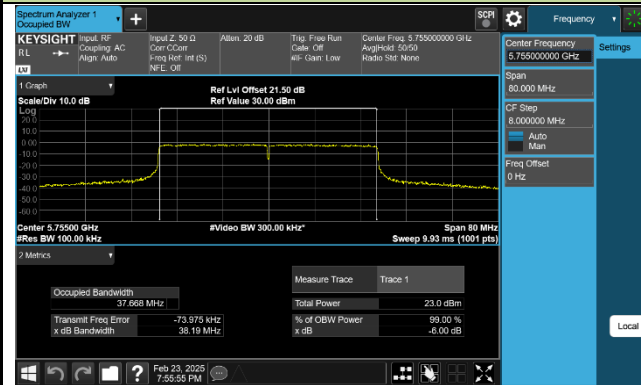


Channel 165 (5825MHz)

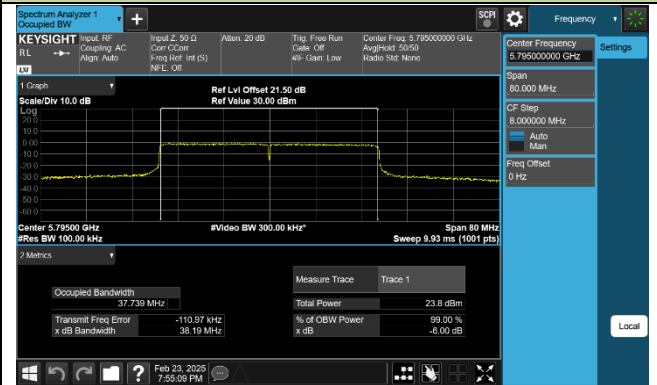


802.11ax-HE40 6dB Bandwidth

Channel 151 (5755MHz)

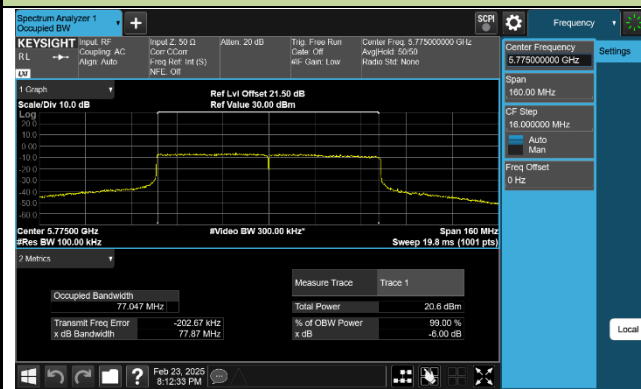


Channel 159 (5795MHz)



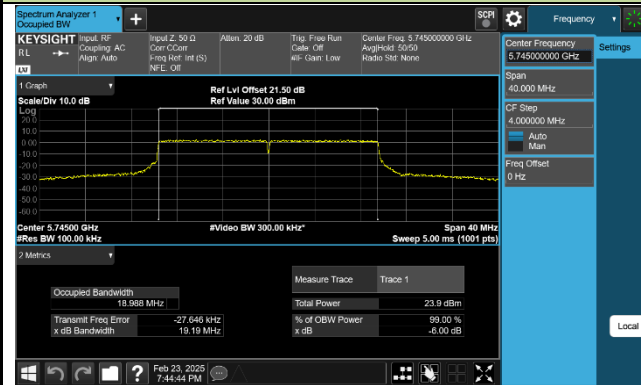
802.11ax-HE80 6dB Bandwidth

Channel 155 (5775MHz)

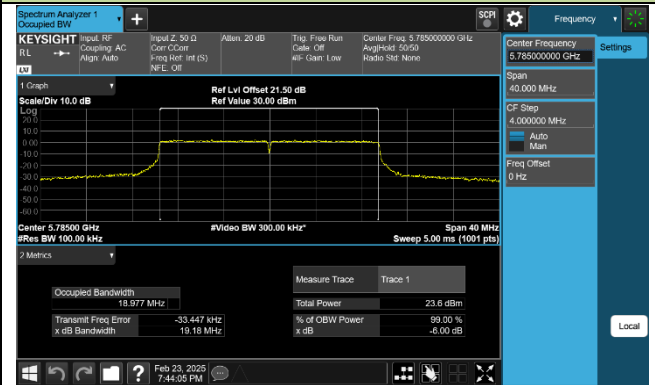


802.11be-EHT20 6dB Bandwidth

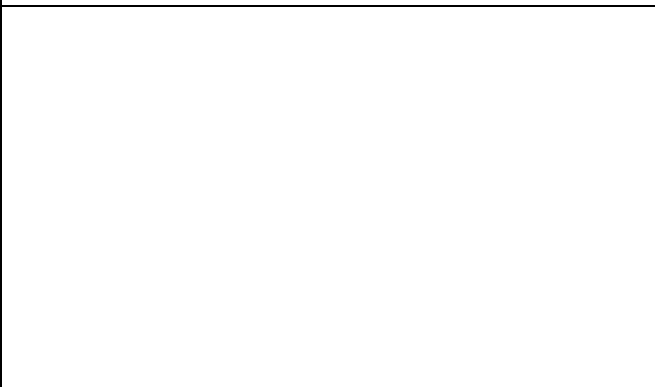
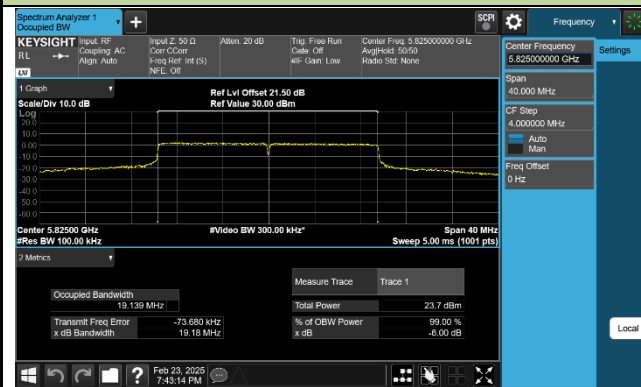
Channel 149 (5745MHz)



Channel 157 (5785MHz)

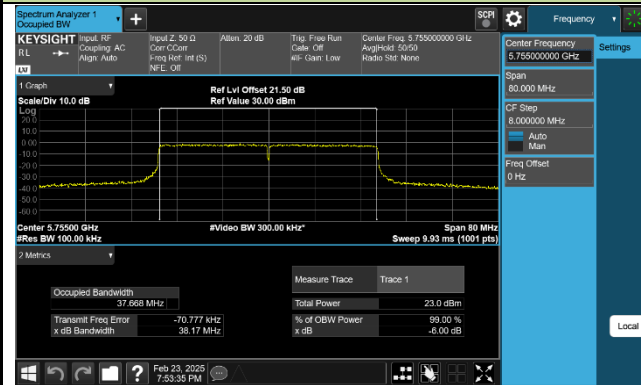


Channel 165 (5825MHz)

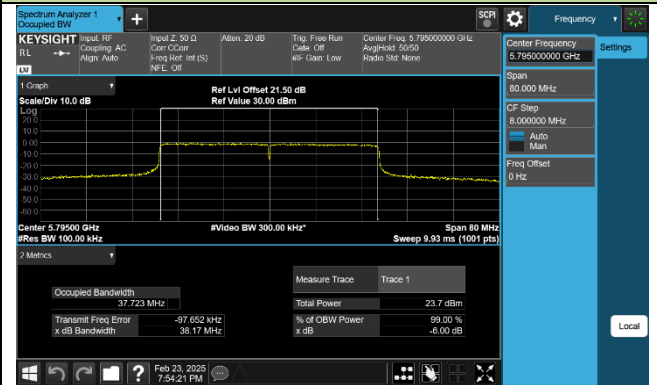


802.11be-EHT40 6dB Bandwidth

Channel 151 (5755MHz)

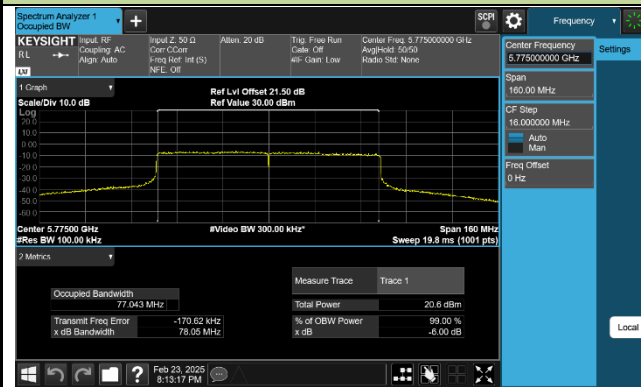


Channel 159 (5795MHz)



802.11be-EHT80 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 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 maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

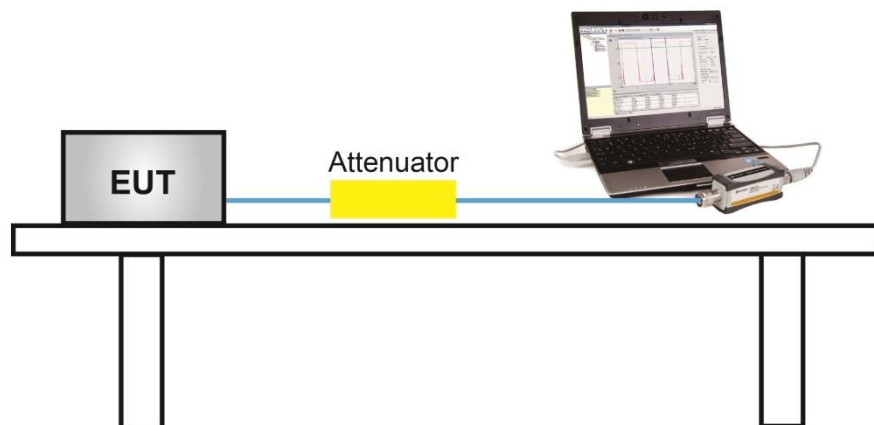
7.4.2. Test Procedure Used

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	WiFi 7 Router	Test Engineer	Marvin
Test Site	SR6	Test Date	2025/3/17
Test Mode	CDD Mode		

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
11a	6Mbps	36	5180	18.87	18.56	19.05	18.61	24.80	≤ 30.00	Pass
11a	6Mbps	40	5200	21.53	21.48	21.93	21.75	27.70	≤ 30.00	Pass
11a	6Mbps	48	5240	21.83	21.62	22.30	22.20	28.02	≤ 30.00	Pass
11a	6Mbps	52	5260	15.60	15.26	15.77	15.51	21.56	≤ 23.98	Pass
11a	6Mbps	60	5300	15.75	15.41	15.71	15.70	21.67	≤ 23.98	Pass
11a	6Mbps	64	5320	15.73	15.49	15.76	15.73	21.70	≤ 23.98	Pass
11a	6Mbps	100	5500	16.50	15.46	16.41	15.94	22.12	≤ 23.98	Pass
11a	6Mbps	116	5580	16.01	15.14	16.34	16.01	21.92	≤ 23.98	Pass
11a	6Mbps	140	5700	14.04	13.37	14.32	14.25	20.03	≤ 23.98	Pass
11a	6Mbps	144	5720	16.20	15.73	16.10	16.56	22.18	≤ 22.95	Pass
11a	6Mbps	149	5745	23.73	23.93	23.29	24.08	29.79	≤ 30.00	Pass
11a	6Mbps	157	5785	23.34	23.76	23.50	23.83	29.63	≤ 30.00	Pass
11a	6Mbps	165	5825	23.81	23.78	23.33	23.63	29.66	≤ 30.00	Pass
11ac-VHT20	MCS0	36	5180	18.91	18.77	19.10	18.86	24.93	≤ 30.00	Pass
11ac-VHT20	MCS0	40	5200	21.94	22.01	22.28	22.32	28.16	≤ 30.00	Pass
11ac-VHT20	MCS0	48	5240	22.16	22.22	22.46	22.72	28.42	≤ 30.00	Pass
11ac-VHT20	MCS0	52	5260	16.38	15.89	16.27	16.35	22.25	≤ 23.98	Pass
11ac-VHT20	MCS0	60	5300	16.63	16.00	16.38	16.41	22.38	≤ 23.98	Pass
11ac-VHT20	MCS0	64	5320	16.46	16.09	16.33	16.37	22.34	≤ 23.98	Pass
11ac-VHT20	MCS0	100	5500	16.90	15.86	16.64	16.45	22.50	≤ 23.98	Pass
11ac-VHT20	MCS0	116	5580	16.79	15.69	16.92	16.44	22.51	≤ 23.98	Pass
11ac-VHT20	MCS0	140	5700	15.00	14.23	14.78	15.18	20.83	≤ 23.98	Pass
11ac-VHT20	MCS0	144	5720	16.67	15.99	16.43	16.70	22.48	≤ 23.02	Pass
11ac-VHT20	MCS0	149	5745	23.71	24.05	23.58	24.02	29.87	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	23.65	24.00	23.47	23.85	29.77	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	23.98	23.67	23.06	23.02	29.47	≤ 30.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
11ac-VHT40	MCS0	38	5190	19.06	18.91	19.12	19.45	25.16	≤ 30.00	Pass
11ac-VHT40	MCS0	46	5230	23.24	23.74	23.36	24.39	29.73	≤ 30.00	Pass
11ac-VHT40	MCS0	54	5270	17.61	17.76	17.79	18.07	23.83	≤ 23.98	Pass
11ac-VHT40	MCS0	62	5310	17.73	17.80	17.76	18.16	23.89	≤ 23.98	Pass
11ac-VHT40	MCS0	102	5510	17.89	17.66	17.49	18.06	23.80	≤ 23.98	Pass
11ac-VHT40	MCS0	110	5550	17.78	17.51	17.35	17.75	23.62	≤ 23.98	Pass
11ac-VHT40	MCS0	134	5670	17.73	17.52	17.73	18.19	23.82	≤ 23.98	Pass
11ac-VHT40	MCS0	142	5710	17.88	17.59	17.62	18.36	23.89	≤ 23.98	Pass
11ac-VHT40	MCS0	151	5755	22.46	22.32	22.53	22.74	28.54	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	23.42	24.09	23.86	24.08	29.89	≤ 30.00	Pass
11ac-VHT80	MCS0	42	5210	18.41	18.55	18.91	18.28	24.56	≤ 30.00	Pass
11ac-VHT80	MCS0	58	5290	17.64	17.57	17.76	17.95	23.75	≤ 23.98	Pass
11ac-VHT80	MCS0	106	5530	17.85	17.67	17.59	17.82	23.75	≤ 23.98	Pass
11ac-VHT80	MCS0	122	5610	17.69	17.35	17.74	18.07	23.74	≤ 23.98	Pass
11ac-VHT80	MCS0	138	5690	17.67	17.51	17.54	18.05	23.72	≤ 23.98	Pass
11ac-VHT80	MCS0	155	5775	20.32	20.18	20.68	19.67	26.25	≤ 30.00	Pass
11ac-VHT160	MCS0	50	5250	14.70	13.92	14.95	14.78	20.63	≤ 23.98	Pass
11ac-VHT160	MCS0	114	5570	15.23	14.85	15.73	15.34	21.32	≤ 23.98	Pass
11ax-HE20	MCS0	36	5180	18.78	18.61	18.95	18.62	24.76	≤ 30.00	Pass
11ax-HE20	MCS0	40	5200	22.03	22.21	22.46	22.45	28.31	≤ 30.00	Pass
11ax-HE20	MCS0	48	5240	22.10	22.04	22.49	22.61	28.34	≤ 30.00	Pass
11ax-HE20	MCS0	52	5260	16.18	15.74	16.24	16.21	22.12	≤ 23.98	Pass
11ax-HE20	MCS0	60	5300	16.37	15.92	16.25	16.39	22.26	≤ 23.98	Pass
11ax-HE20	MCS0	64	5320	16.59	16.17	16.61	16.66	22.53	≤ 23.98	Pass
11ax-HE20	MCS0	100	5500	17.03	16.21	16.80	16.55	22.68	≤ 23.98	Pass
11ax-HE20	MCS0	116	5580	16.63	15.75	16.78	16.43	22.44	≤ 23.98	Pass
11ax-HE20	MCS0	140	5700	15.15	14.79	15.48	15.16	21.17	≤ 23.98	Pass
11ax-HE20	MCS0	144	5720	16.79	16.17	16.51	16.81	22.60	≤ 23.00	Pass
11ax-HE20	MCS0	149	5745	23.63	24.22	23.04	23.93	29.75	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	23.83	24.23	23.10	24.18	29.88	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	24.04	24.12	23.17	23.52	29.75	≤ 30.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
11ax-HE40	MCS0	38	5190	18.97	18.91	19.06	19.41	25.11	≤ 30.00	Pass
11ax-HE40	MCS0	46	5230	23.41	24.02	23.04	24.31	29.74	≤ 30.00	Pass
11ax-HE40	MCS0	54	5270	17.66	17.97	17.51	18.02	23.82	≤ 23.98	Pass
11ax-HE40	MCS0	62	5310	17.57	17.91	17.46	17.95	23.75	≤ 23.98	Pass
11ax-HE40	MCS0	102	5510	17.96	17.91	17.23	17.89	23.78	≤ 23.98	Pass
11ax-HE40	MCS0	110	5550	17.92	17.62	17.34	17.65	23.66	≤ 23.98	Pass
11ax-HE40	MCS0	134	5670	17.64	17.17	17.41	17.97	23.58	≤ 23.98	Pass
11ax-HE40	MCS0	142	5710	17.87	17.86	17.28	18.17	23.83	≤ 23.98	Pass
11ax-HE40	MCS0	151	5755	22.63	22.56	22.69	22.93	28.73	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	23.61	24.16	23.27	23.97	29.79	≤ 30.00	Pass
11ax-HE80	MCS0	42	5210	18.84	19.14	18.92	19.42	25.11	≤ 30.00	Pass
11ax-HE80	MCS0	58	5290	17.42	17.62	17.55	17.97	23.67	≤ 23.98	Pass
11ax-HE80	MCS0	106	5530	17.77	17.63	17.48	17.55	23.63	≤ 23.98	Pass
11ax-HE80	MCS0	122	5610	17.53	17.40	17.38	17.77	23.54	≤ 23.98	Pass
11ax-HE80	MCS0	138	5690	17.62	17.52	17.14	17.85	23.56	≤ 23.98	Pass
11ax-HE80	MCS0	155	5775	20.33	20.41	19.77	20.22	26.21	≤ 30.00	Pass
11ax-HE160	MCS0	50	5250	16.36	15.67	16.47	16.02	22.16	≤ 23.98	Pass
11ax-HE160	MCS0	114	5570	16.77	16.12	16.97	16.76	22.69	≤ 23.98	Pass
11be-EHT20	MCS0	36	5180	18.67	19.07	18.96	19.09	24.97	≤ 30.00	Pass
11be-EHT20	MCS0	40	5200	22.19	22.30	22.68	22.62	28.47	≤ 30.00	Pass
11be-EHT20	MCS0	48	5240	22.26	22.15	22.75	22.95	28.56	≤ 30.00	Pass
11be-EHT20	MCS0	52	5260	16.57	16.14	16.62	16.63	22.52	≤ 23.98	Pass
11be-EHT20	MCS0	60	5300	16.34	15.97	16.37	16.52	22.33	≤ 23.98	Pass
11be-EHT20	MCS0	64	5320	16.56	16.21	16.59	16.76	22.56	≤ 23.98	Pass
11be-EHT20	MCS0	100	5500	17.04	16.09	16.84	16.71	22.70	≤ 23.98	Pass
11be-EHT20	MCS0	116	5580	16.72	15.74	16.79	16.64	22.51	≤ 23.98	Pass
11be-EHT20	MCS0	140	5700	14.43	13.70	14.55	14.77	20.40	≤ 23.98	Pass
11be-EHT20	MCS0	144	5720	16.86	16.24	16.74	16.92	22.72	≤ 23.05	Pass
11be-EHT20	MCS0	149	5745	23.63	24.29	22.88	24.04	29.76	≤ 30.00	Pass
11be-EHT20	MCS0	157	5785	23.84	24.12	23.16	24.04	29.83	≤ 30.00	Pass
11be-EHT20	MCS0	165	5825	23.98	24.07	23.20	23.68	29.77	≤ 30.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
11be-EHT40	MCS0	38	5190	18.61	18.51	18.82	19.05	24.77	≤ 30.00	Pass
11be-EHT40	MCS0	46	5230	23.31	24.03	23.20	24.43	29.79	≤ 30.00	Pass
11be-EHT40	MCS0	54	5270	17.78	18.00	17.74	18.14	23.94	≤ 23.98	Pass
11be-EHT40	MCS0	62	5310	17.67	17.92	17.43	18.03	23.79	≤ 23.98	Pass
11be-EHT40	MCS0	102	5510	17.87	17.77	17.41	18.04	23.80	≤ 23.98	Pass
11be-EHT40	MCS0	110	5550	17.71	17.69	17.15	17.77	23.61	≤ 23.98	Pass
11be-EHT40	MCS0	134	5670	15.97	15.14	15.27	16.16	21.68	≤ 23.98	Pass
11be-EHT40	MCS0	142	5710	17.89	17.80	17.25	18.35	23.86	≤ 23.98	Pass
11be-EHT40	MCS0	151	5755	22.68	22.39	22.60	22.90	28.67	≤ 30.00	Pass
11be-EHT40	MCS0	159	5795	23.57	23.97	23.30	23.93	29.72	≤ 30.00	Pass
11be-EHT80	MCS0	42	5210	18.24	18.22	17.80	18.73	24.28	≤ 30.00	Pass
11be-EHT80	MCS0	58	5290	17.82	17.83	17.53	18.02	23.82	≤ 23.98	Pass
11be-EHT80	MCS0	106	5530	17.88	17.76	17.45	17.61	23.70	≤ 23.98	Pass
11be-EHT80	MCS0	122	5610	17.43	16.81	17.36	17.58	23.33	≤ 23.98	Pass
11be-EHT80	MCS0	138	5690	17.62	17.67	17.58	18.23	23.80	≤ 23.98	Pass
11be-EHT80	MCS0	155	5775	20.23	20.56	19.72	20.31	26.24	≤ 30.00	Pass
11be-EHT160	MCS0	50	5250	17.63	17.08	17.57	17.24	23.41	≤ 23.98	Pass
11be-EHT160	MCS0	114	5570	17.10	16.36	17.28	17.02	22.97	≤ 23.98	Pass

Note 1:

The Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$.

Note 2:

For 5250- 5350MHz and 5470 - 5725MHz Band: Average Power Limit (dBm) = 23.98 dBm.

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

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

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.

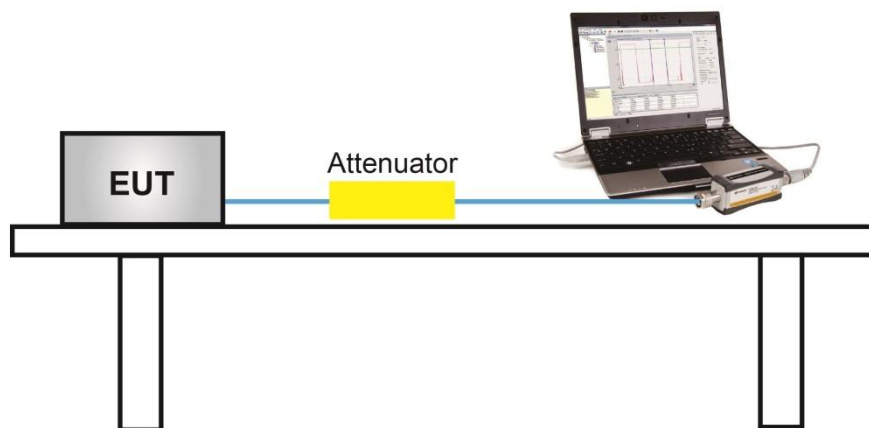
7.5.2. Test Procedure Used

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.

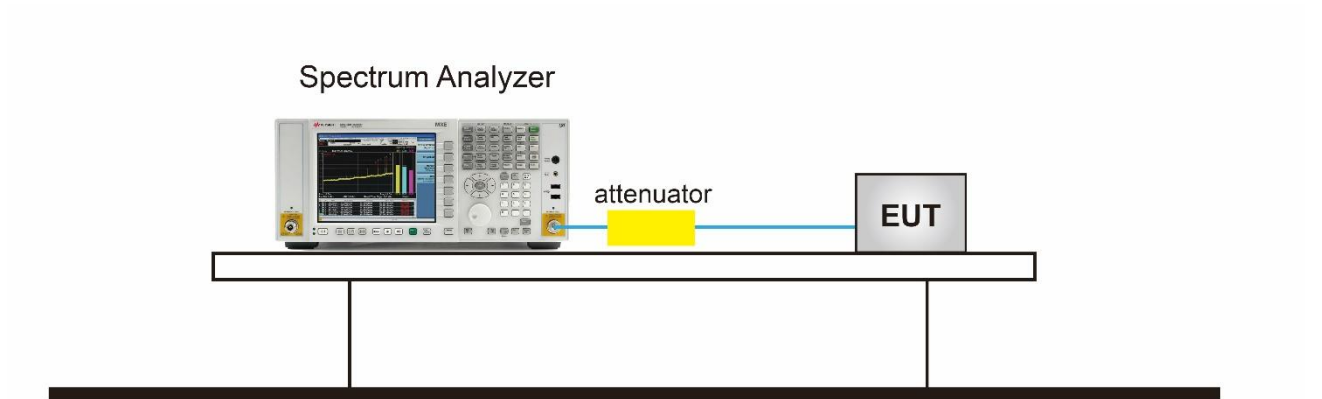
7.6.2. Test Procedure Used

KDB 789033 D02v02r01-SectionF

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	WiFi 7 Router	Test Engineer	Marvin
Test Site	SR6	Test Date	2025/2/17~2025/4/16
Mode	Power Spectral Density (U-NII- 1/-2a / -2c) CDD Mode		

Test Mode	Data Rate /MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Ant 3 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11a	6Mbps	36	5180	7.369	7.654	8.481	7.284	94.34%	13.997	≤ 17.00	Pass
11a	6Mbps	40	5200	10.195	10.784	10.244	10.826	94.34%	16.796	≤ 17.00	Pass
11a	6Mbps	48	5240	10.087	10.764	10.373	11.174	94.34%	16.893	≤ 17.00	Pass
11a	6Mbps	52	5260	4.173	4.504	4.208	4.538	94.34%	10.633	≤ 11.00	Pass
11a	6Mbps	60	5300	4.182	4.619	4.109	4.491	94.34%	10.629	≤ 11.00	Pass
11a	6Mbps	64	5320	4.065	4.533	4.205	4.740	94.34%	10.668	≤ 11.00	Pass
11a	6Mbps	100	5500	4.614	4.205	4.386	5.105	94.34%	10.864	≤ 11.00	Pass
11a	6Mbps	116	5580	4.622	4.239	4.446	4.719	94.34%	10.784	≤ 11.00	Pass
11a	6Mbps	140	5700	2.614	2.078	2.895	3.021	94.34%	8.940	≤ 11.00	Pass
11a	6Mbps	144	5720	4.527	4.313	4.442	5.062	94.34%	10.869	≤ 11.00	Pass
11ac-VHT20	MCS0	36	5180	7.161	7.284	8.215	7.293	98.31%	13.604	≤ 17.00	Pass
11ac-VHT20	MCS0	40	5200	10.059	10.762	10.229	10.987	98.31%	16.621	≤ 17.00	Pass
11ac-VHT20	MCS0	48	5240	10.255	10.899	10.612	11.170	98.31%	16.842	≤ 17.00	Pass
11ac-VHT20	MCS0	52	5260	4.407	4.613	4.414	4.606	98.31%	10.606	11.00	Pass
11ac-VHT20	MCS0	60	5300	4.279	4.857	4.639	4.940	98.31%	10.781	11.00	Pass
11ac-VHT20	MCS0	64	5320	4.486	4.646	4.507	4.857	98.31%	10.721	11.00	Pass
11ac-VHT20	MCS0	100	5500	4.690	4.330	4.835	4.807	98.31%	10.765	11.00	Pass
11ac-VHT20	MCS0	116	5580	4.783	4.118	4.601	5.012	98.31%	10.736	11.00	Pass
11ac-VHT20	MCS0	140	5700	3.295	2.568	3.644	3.665	98.31%	9.410	11.00	Pass
11ac-VHT20	MCS0	144	5720	4.778	4.583	4.404	4.892	98.31%	10.763	11.00	Pass

Test Mode	Data Rate /MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Ant 3 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11ac-VHT40	MCS0	38	5190	8.556	9.464	8.458	9.151	96.05%	15.123	≤ 17.00	Pass
11ac-VHT40	MCS0	46	5230	8.777	9.367	8.513	9.594	96.05%	15.280	≤ 17.00	Pass
11ac-VHT40	MCS0	54	5270	3.110	3.510	3.107	3.471	96.05%	9.499	≤ 11.00	Pass
11ac-VHT40	MCS0	62	5310	2.898	3.235	2.614	3.293	96.05%	9.214	≤ 11.00	Pass
11ac-VHT40	MCS0	102	5510	2.607	2.542	2.428	2.421	96.05%	8.696	≤ 11.00	Pass
11ac-VHT40	MCS0	110	5550	2.758	2.640	2.531	2.379	96.05%	8.775	≤ 11.00	Pass
11ac-VHT40	MCS0	134	5670	2.549	2.623	2.620	2.801	96.05%	8.845	≤ 11.00	Pass
11ac-VHT40	MCS0	142	5710	2.498	2.624	2.356	2.940	96.05%	8.806	≤ 11.00	Pass
11ac-VHT80	MCS0	42	5210	1.696	1.471	2.067	2.092	92.53%	8.197	≤ 17.00	Pass
11ac-VHT80	MCS0	58	5290	0.255	0.118	1.261	0.506	92.53%	6.916	≤ 11.00	Pass
11ac-VHT80	MCS0	106	5530	0.178	-0.317	0.256	0.339	92.53%	6.479	≤ 11.00	Pass
11ac-VHT80	MCS0	122	5610	0.300	-0.652	0.454	0.004	92.53%	6.405	≤ 11.00	Pass
11ac-VHT80	MCS0	138	5690	-0.124	-0.414	0.224	0.172	92.53%	6.330	≤ 11.00	Pass
11ac-VHT160	MCS0	50	5250	-5.730	-6.154	-5.303	-5.112	88.23%	1.008	≤ 11.00	Pass
11ac-VHT160	MCS0	114	5570	-5.812	-6.155	-6.058	-5.498	88.23%	0.691	≤ 11.00	Pass
11ax-HE20	MCS0	36	5180	6.708	7.176	7.941	6.967	98.04%	13.330	≤ 17.00	Pass
11ax-HE20	MCS0	40	5200	10.312	10.729	10.466	11.029	98.04%	16.749	≤ 17.00	Pass
11ax-HE20	MCS0	48	5240	10.215	10.872	10.642	11.223	98.04%	16.860	≤ 17.00	Pass
11ax-HE20	MCS0	52	5260	4.501	4.844	4.308	4.780	98.04%	10.720	≤ 11.00	Pass
11ax-HE20	MCS0	60	5300	4.493	4.873	4.649	4.987	98.04%	10.862	≤ 11.00	Pass
11ax-HE20	MCS0	64	5320	4.585	4.593	4.372	5.060	98.04%	10.767	≤ 11.00	Pass
11ax-HE20	MCS0	100	5500	4.670	4.640	4.411	4.915	98.04%	10.769	≤ 11.00	Pass
11ax-HE20	MCS0	116	5580	4.447	4.160	4.903	4.598	98.04%	10.642	≤ 11.00	Pass
11ax-HE20	MCS0	140	5700	3.101	2.687	2.638	3.185	98.04%	9.016	≤ 11.00	Pass
11ax-HE20	MCS0	144	5720	4.687	4.858	4.592	5.060	98.04%	10.910	≤ 11.00	Pass

Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Ant 3 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11ax-HE40	MCS0	38	5190	4.380	4.509	5.034	5.224	95.13%	11.039	≤ 17.00	Pass
11ax-HE40	MCS0	46	5230	9.163	9.107	9.299	9.990	95.13%	15.642	≤ 17.00	Pass
11ax-HE40	MCS0	54	5270	3.480	3.074	3.966	3.777	95.13%	9.825	≤ 11.00	Pass
11ax-HE40	MCS0	62	5310	3.124	3.177	3.514	3.282	95.13%	9.514	≤ 11.00	Pass
11ax-HE40	MCS0	102	5510	3.339	2.771	3.095	3.285	95.13%	9.366	≤ 11.00	Pass
11ax-HE40	MCS0	110	5550	3.099	2.897	3.456	2.910	95.13%	9.334	≤ 11.00	Pass
11ax-HE40	MCS0	134	5670	3.238	2.876	3.554	3.352	95.13%	9.499	≤ 11.00	Pass
11ax-HE40	MCS0	142	5710	3.349	2.827	3.492	3.759	95.13%	9.607	≤ 11.00	Pass
11ax-HE80	MCS0	42	5210	1.893	1.917	2.698	2.004	92.26%	8.512	≤ 17.00	Pass
11ax-HE80	MCS0	58	5290	0.385	-1.070	0.586	0.577	92.26%	6.542	≤ 11.00	Pass
11ax-HE80	MCS0	106	5530	0.299	-0.099	0.562	-0.090	92.26%	6.548	≤ 11.00	Pass
11ax-HE80	MCS0	122	5610	0.036	-0.425	0.737	0.270	92.26%	6.545	≤ 11.00	Pass
11ax-HE80	MCS0	138	5690	0.039	-0.051	0.439	0.519	92.26%	6.614	≤ 11.00	Pass
11ax-HE160	MCS0	50	5250	-3.714	-4.756	-3.658	-3.611	87.80%	2.676	≤ 11.00	Pass
11ax-HE160	MCS0	114	5570	-3.923	-4.544	-3.554	-3.634	87.80%	2.689	≤ 11.00	Pass
11be-EHT20	MCS0	36	5180	6.662	6.934	8.014	7.245	97.52%	13.374	≤ 17.00	Pass
11be-EHT20	MCS0	40	5200	10.207	10.912	10.629	11.161	97.52%	16.871	≤ 17.00	Pass
11be-EHT20	MCS0	48	5240	10.431	10.691	10.766	10.939	97.52%	16.840	≤ 17.00	Pass
11be-EHT20	MCS0	52	5260	4.623	4.849	4.528	5.044	97.52%	10.895	≤ 11.00	Pass
11be-EHT20	MCS0	60	5300	4.637	4.543	4.667	5.142	97.52%	10.883	≤ 11.00	Pass
11be-EHT20	MCS0	64	5320	4.741	4.837	4.722	4.722	97.52%	10.885	≤ 11.00	Pass
11be-EHT20	MCS0	100	5500	4.837	4.698	4.717	4.650	97.52%	10.856	≤ 11.00	Pass
11be-EHT20	MCS0	116	5580	4.790	4.436	4.407	4.690	97.52%	10.714	≤ 11.00	Pass
11be-EHT20	MCS0	140	5700	2.764	2.205	2.945	3.046	97.52%	8.882	≤ 11.00	Pass
11be-EHT20	MCS0	144	5720	4.588	4.715	4.405	4.933	97.52%	10.794	≤ 11.00	Pass

Test Mode	Data Rate /MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Ant 3 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11be-EHT40	MCS0	38	5190	4.085	4.224	4.650	4.592	95.19%	10.629	≤ 17.00	Pass
11be-EHT40	MCS0	46	5230	8.922	9.153	9.615	9.754	95.19%	15.609	≤ 17.00	Pass
11be-EHT40	MCS0	54	5270	3.334	3.085	3.701	3.639	95.19%	9.681	≤ 11.00	Pass
11be-EHT40	MCS0	62	5310	3.248	2.902	3.561	3.298	95.19%	9.493	≤ 11.00	Pass
11be-EHT40	MCS0	102	5510	3.268	2.495	2.985	3.151	95.19%	9.219	≤ 11.00	Pass
11be-EHT40	MCS0	110	5550	3.028	2.256	3.428	2.969	95.19%	9.175	≤ 11.00	Pass
11be-EHT40	MCS0	134	5670	1.098	0.643	1.143	1.178	95.19%	7.255	≤ 11.00	Pass
11be-EHT40	MCS0	142	5710	3.212	2.887	3.481	3.744	95.19%	9.577	≤ 11.00	Pass
11be-EHT80	MCS0	42	5210	1.948	2.145	2.573	2.493	92.08%	8.676	≤ 17.00	Pass
11be-EHT80	MCS0	58	5290	0.467	-0.072	0.717	0.436	92.08%	6.775	≤ 11.00	Pass
11be-EHT80	MCS0	106	5530	0.573	-0.272	0.566	-0.164	92.08%	6.573	≤ 11.00	Pass
11be-EHT80	MCS0	122	5610	0.290	-0.381	0.645	0.345	92.08%	6.619	≤ 11.00	Pass
11be-EHT80	MCS0	138	5690	0.377	-0.152	0.447	0.582	92.08%	6.701	≤ 11.00	Pass
11be-EHT160	MCS0	50	5250	-2.645	-2.842	-2.327	-2.205	87.86%	4.085	≤ 11.00	Pass
11be-EHT160	MCS0	114	5570	-3.361	-4.306	-3.384	-3.617	87.86%	2.932	≤ 11.00	Pass

Note 1: The total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\} + 10 \cdot \log (1/\text{Duty Cycle})(\text{dBm/MHz})$.

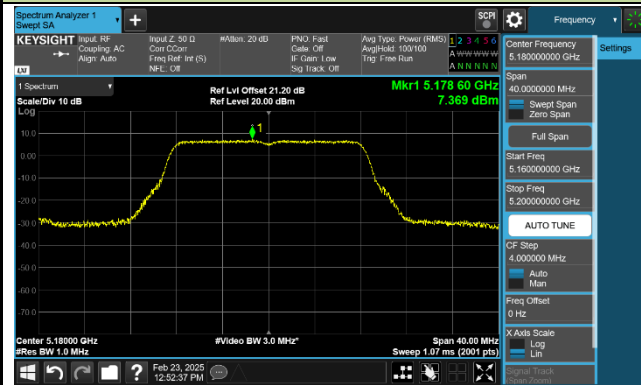
Product	WiFi 7 Router	Test Engineer	Marvin
Test Site	SR6	Test Date	2025/2/17~2025/2/27
Test Item	Power Spectral Density (U-NII-3) CDD Mode		

Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/51 0KHz)	Ant 1 PSD (dBm/51 0KHz)	Ant 2 PSD (dBm/51 0KHz)	Ant 3 PSD (dBm/51 0KHz)	Duty Cycle (%)	Total PSD (dBm/510 KHz)	PSD Limit (dBm/50 0KHz)	Result
11a	6Mbps	149	5745	9.382	9.698	9.919	10.361	94.34%	16.128	≤ 30.00	Pass
11a	6Mbps	157	5785	9.821	9.688	10.127	9.977	94.34%	16.180	≤ 30.00	Pass
11a	6Mbps	165	5825	9.818	9.809	9.818	9.929	94.34%	16.117	≤ 30.00	Pass
11ac-VHT20	MCS0	149	5745	9.526	9.703	9.561	9.704	98.31%	15.719	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	10.007	9.482	9.693	9.864	98.31%	15.861	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	10.031	9.630	9.621	9.269	98.31%	15.741	≤ 30.00	Pass
11ac-VHT40	MCS0	151	5755	4.963	5.222	5.508	5.522	96.05%	11.505	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	6.429	6.873	7.319	7.068	96.05%	13.130	≤ 30.00	Pass
11ac-VHT80	MCS0	155	5775	0.778	0.502	1.087	1.411	92.53%	7.316	≤ 30.00	Pass
11ax-HE20	MCS0	149	5745	9.008	8.995	9.091	9.474	98.04%	15.253	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	9.350	9.392	9.241	9.652	98.04%	15.518	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	9.623	9.592	9.113	9.205	98.04%	15.496	≤ 30.00	Pass
11ax-HE40	MCS0	151	5755	5.134	5.408	5.325	5.662	95.13%	11.624	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	6.422	6.687	7.036	6.672	95.13%	12.947	≤ 30.00	Pass
11ax-HE80	MCS0	155	5775	0.539	0.530	0.771	1.406	92.26%	7.197	≤ 30.00	Pass
11be-EHT20	MCS0	149	5745	8.923	9.043	8.949	9.519	97.52%	15.245	≤ 30.00	Pass
11be-EHT20	MCS0	157	5785	9.338	9.682	9.111	9.537	97.52%	15.552	≤ 30.00	Pass
11be-EHT20	MCS0	165	5825	9.306	9.090	9.217	9.080	97.52%	15.304	≤ 30.00	Pass
11be-EHT40	MCS0	151	5755	5.005	5.256	5.796	5.953	95.19%	11.754	≤ 30.00	Pass
11be-EHT40	MCS0	159	5795	6.343	6.542	6.683	6.994	95.19%	12.882	≤ 30.00	Pass
11be-EHT80	MCS0	155	5775	0.573	1.121	0.897	1.187	92.08%	7.330	≤ 30.00	Pass

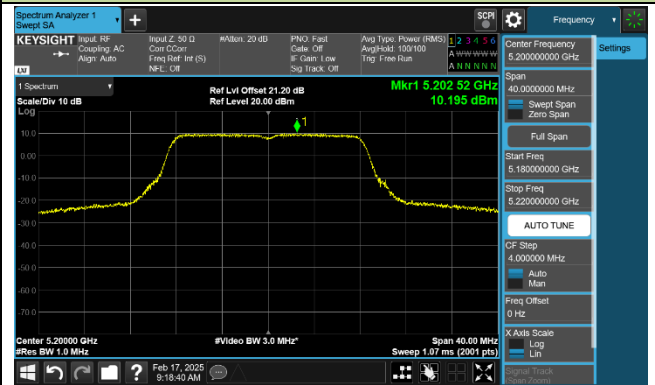
Note 1: The total PSD (dBm/510kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$
(dBm/510kHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

802.11a Power Spectral Density - Ant 0

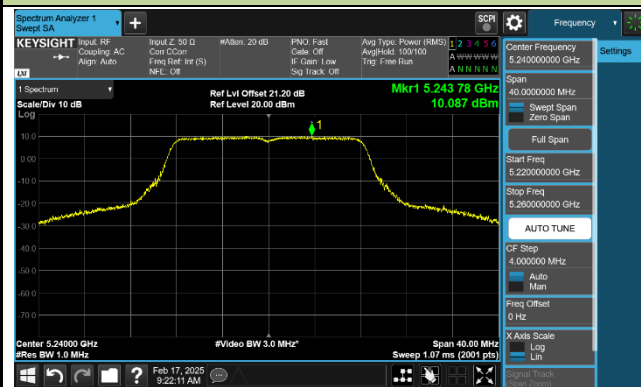
Channel 36 (5180MHz)



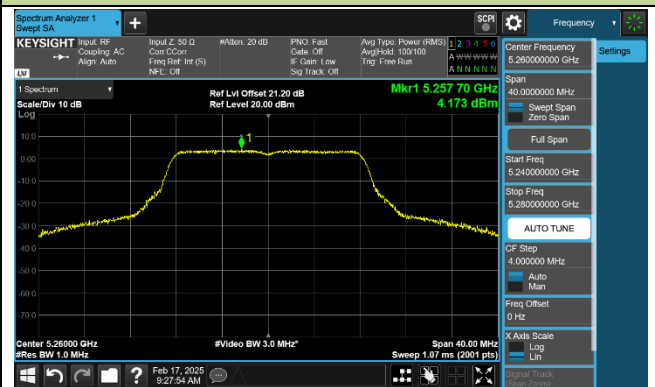
Channel 40 (5200MHz)



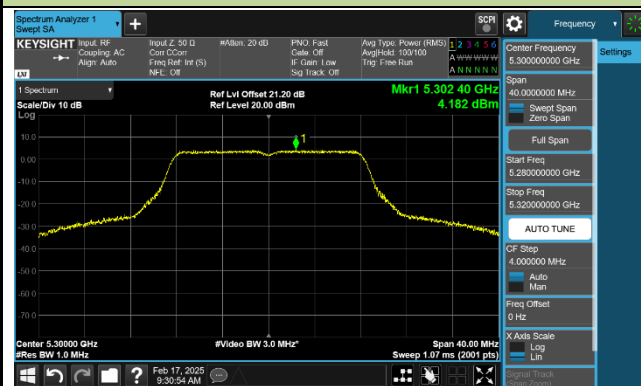
Channel 48 (5240MHz)



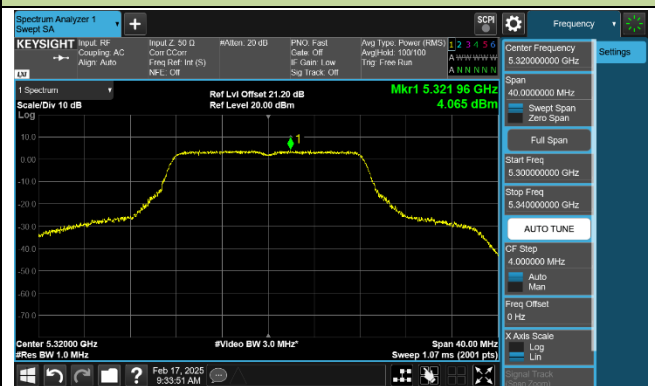
Channel 52 (5260MHz)



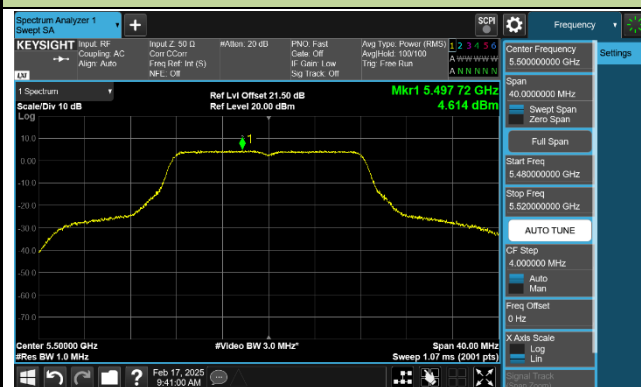
Channel 60 (5300MHz)



Channel 64 (5320MHz)



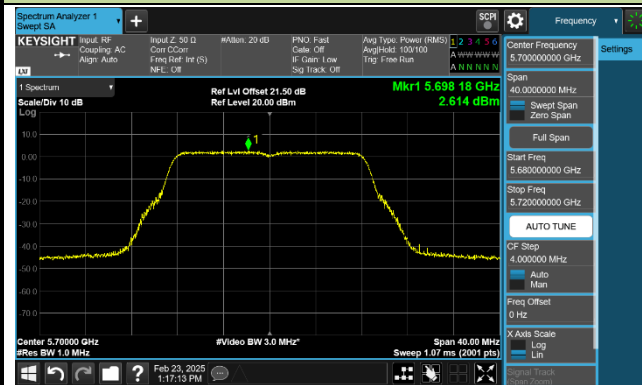
Channel 100 (5500MHz)



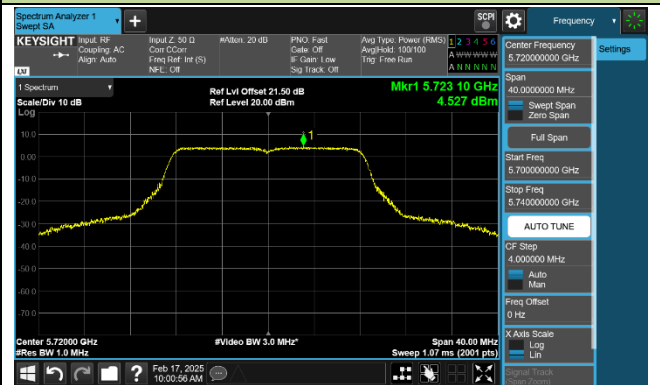
Channel 116 (5580MHz)



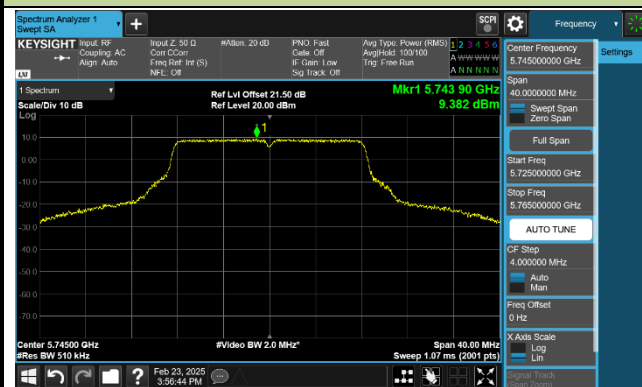
Channel 140 (5700MHz)



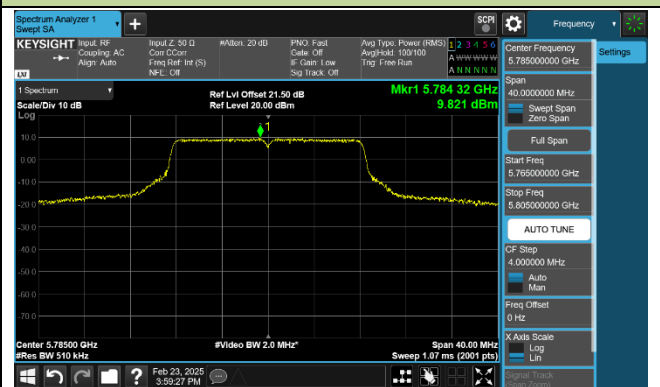
Channel 144 (5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

