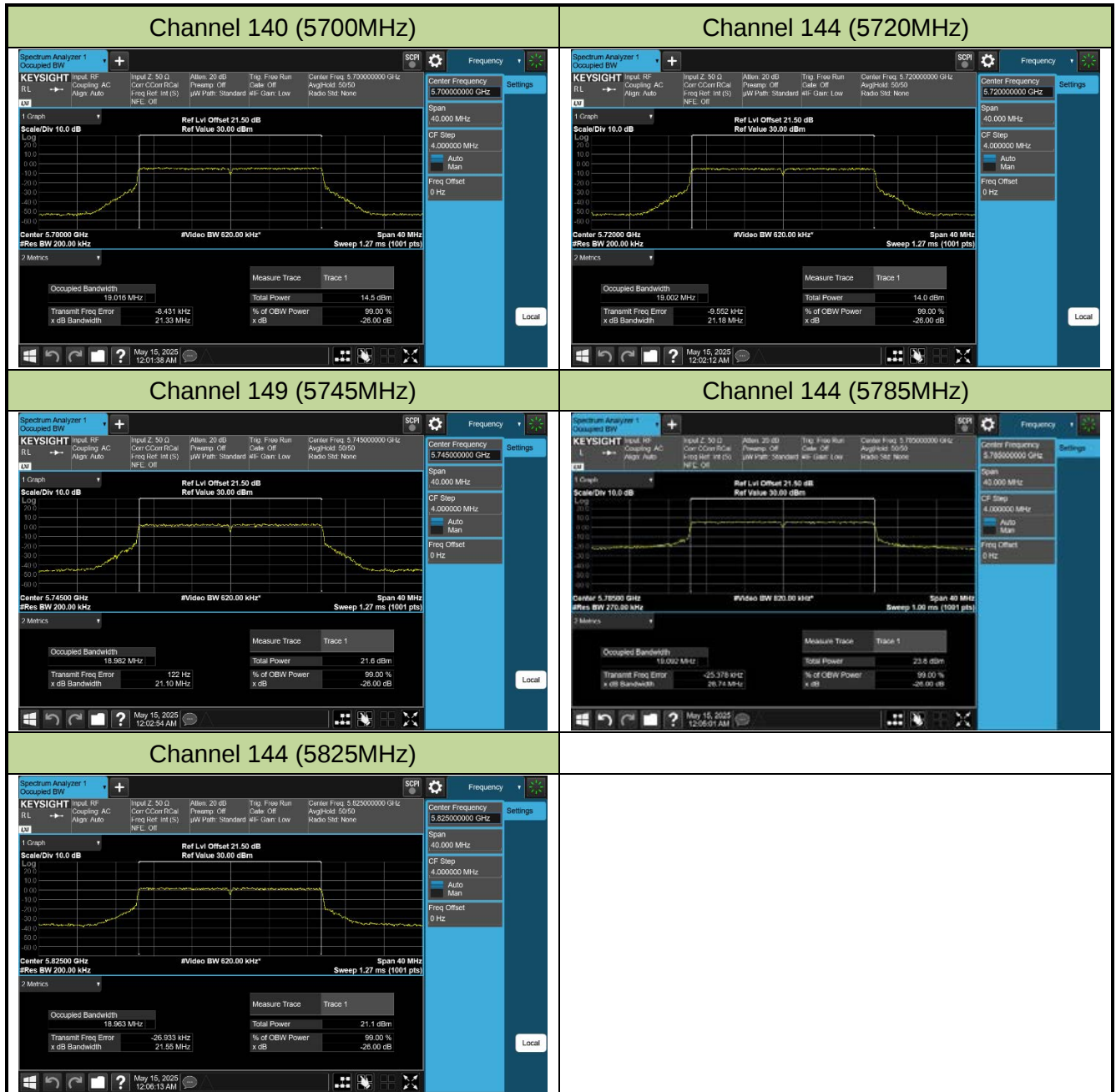




802.11be-EHT40 26dB Bandwidth & 99% Bandwidth

Channel 38 (5190MHz)



Channel 46 (5230MHz)



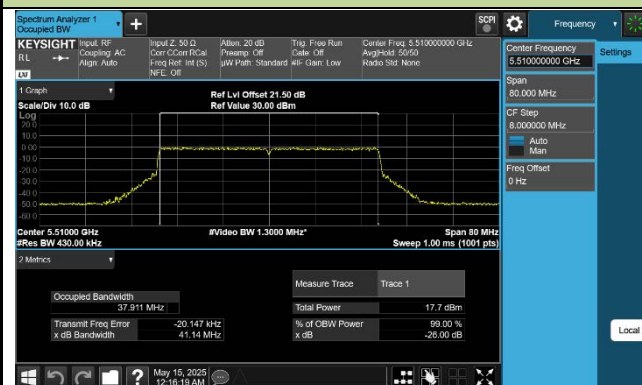
Channel 54 (5270MHz)



Channel 62 (5310MHz)



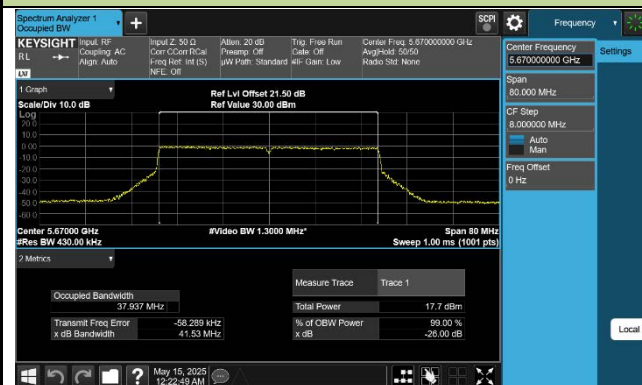
Channel 102 (5510MHz)



Channel 110 (5550MHz)

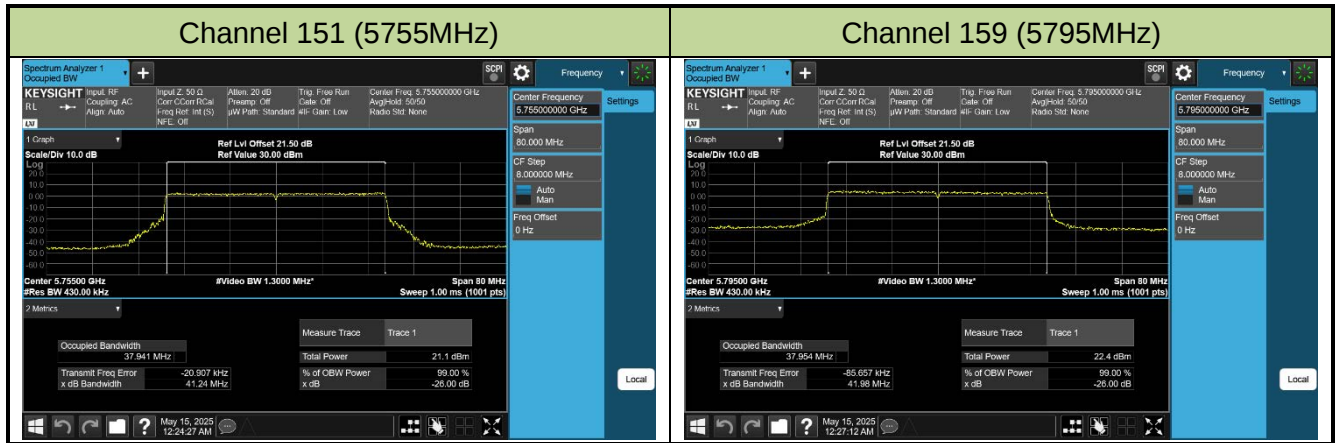


Channel 134 (5670MHz)



Channel 142 (5710MHz)



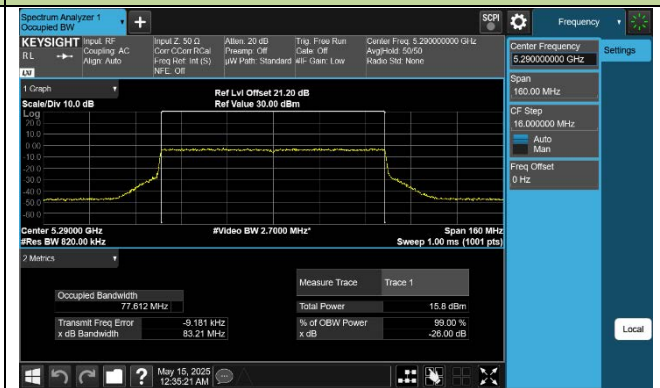


802.11be-EHT80 26dB Bandwidth & 99% Bandwidth

Channel 42 (5210MHz)



Channel 58 (5290MHz)



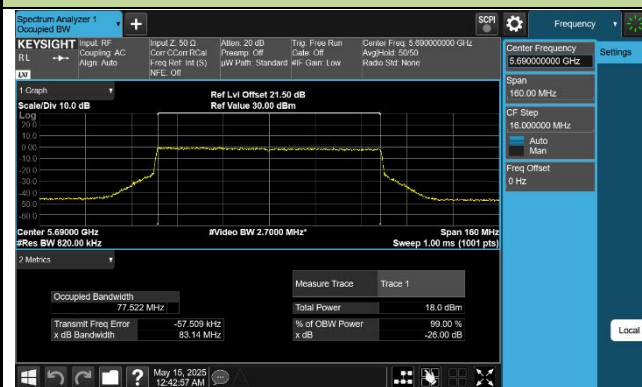
Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)

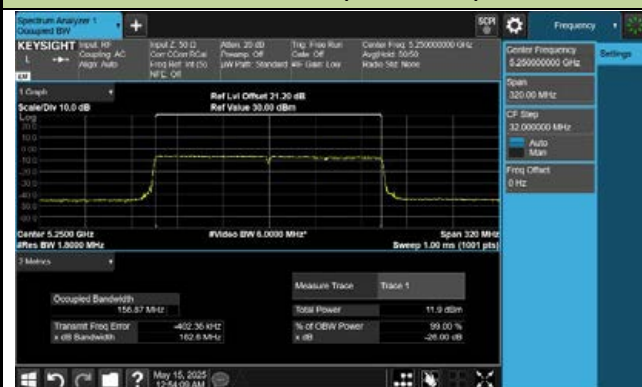


Channel 155 (5775MHz)



802.11be-EHT160 26dB Bandwidth & 99% Bandwidth

Channel 50 (5250MHz)



Channel 114 (5570MHz)



802.11be-EHT240 26dB Bandwidth & 99% Bandwidth

Channel 130 (5650MHz)



7.3. 6dB Bandwidth Measurement

7.3.1. Test Limit

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

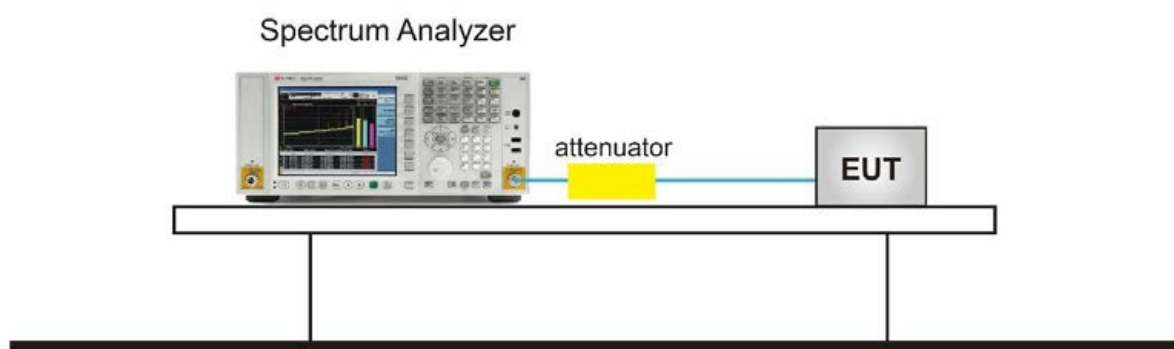
7.3.2. Test Procedure used

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	BE15000 Ceiling Mount Tri-Band Wi-Fi 7 Access Point	Test Engineer	Fran
Test Site	SR6	Test Date	2025/5/14~2025/5/15

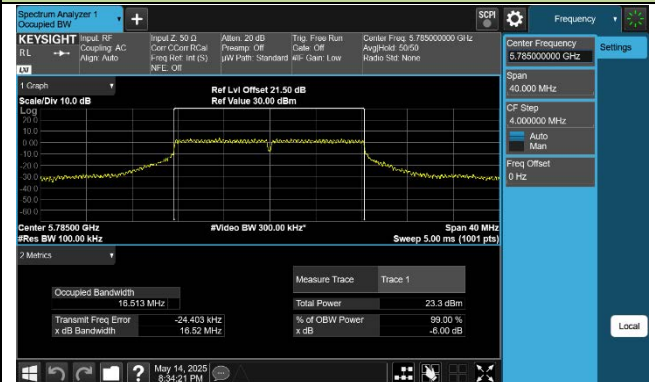
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 0						
802.11a	6Mbps	149	5745	16.56	≥ 0.5	Pass
802.11a	6Mbps	157	5785	16.52	≥ 0.5	Pass
802.11a	6Mbps	165	5825	16.55	≥ 0.5	Pass
802.11ac-VHT20	MCS0	149	5745	17.80	≥ 0.5	Pass
802.11ac-VHT20	MCS0	157	5785	17.80	≥ 0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.79	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	36.55	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	36.55	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	76.59	≥ 0.5	Pass
802.11ax-HE20	MCS0	149	5745	19.20	≥ 0.5	Pass
802.11ax-HE20	MCS0	157	5785	19.20	≥ 0.5	Pass
802.11ax-HE20	MCS0	165	5825	19.18	≥ 0.5	Pass
802.11ax-HE40	MCS0	151	5755	38.26	≥ 0.5	Pass
802.11ax-HE40	MCS0	159	5795	38.25	≥ 0.5	Pass
802.11ax-HE80	MCS0	155	5775	78.27	≥ 0.5	Pass
802.11be-EHT20	MCS0	149	5745	19.19	≥ 0.5	Pass
802.11be-EHT20	MCS0	157	5785	19.20	≥ 0.5	Pass
802.11be-EHT20	MCS0	165	5825	19.19	≥ 0.5	Pass
802.11be-EHT40	MCS0	151	5755	38.28	≥ 0.5	Pass
802.11be-EHT40	MCS0	159	5795	38.26	≥ 0.5	Pass
802.11be-EHT80	MCS0	155	5775	78.27	≥ 0.5	Pass

802.11a 6dB Bandwidth

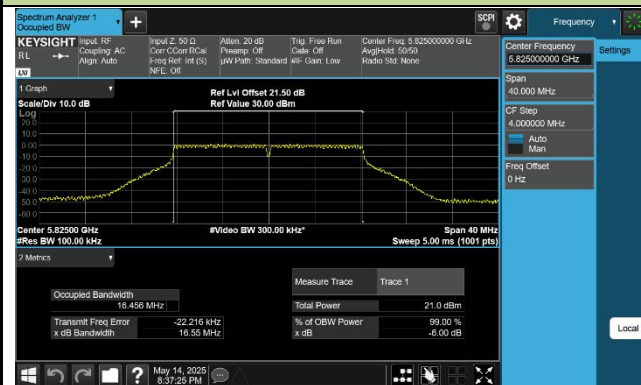
Channel 149 (5745MHz)



Channel 157 (5785MHz)

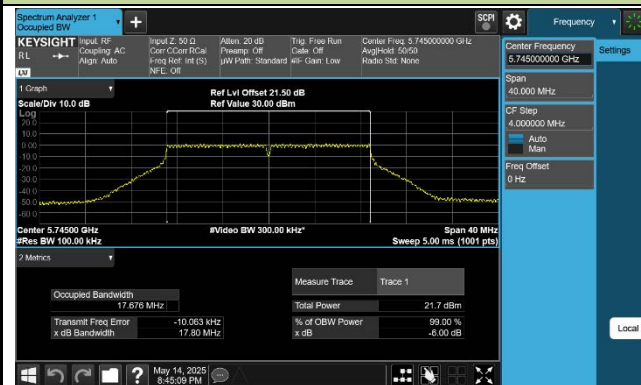


Channel 165 (5825MHz)

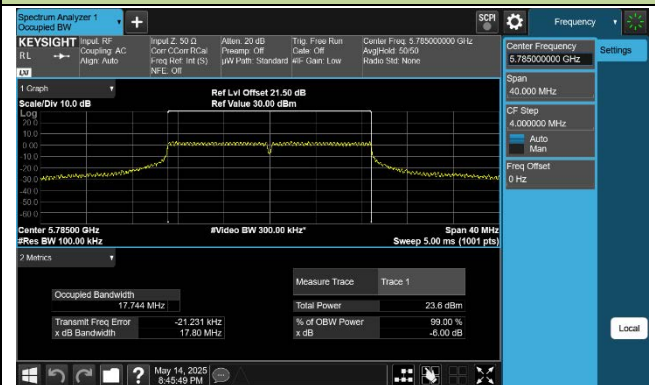


802.11ac-VHT20 6dB Bandwidth

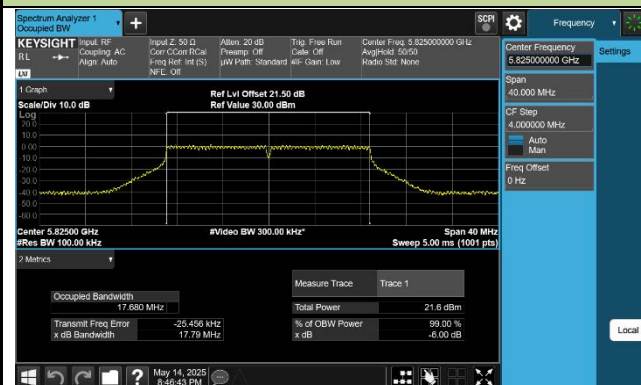
Channel 149 (5745MHz)



Channel 157 (5785MHz)

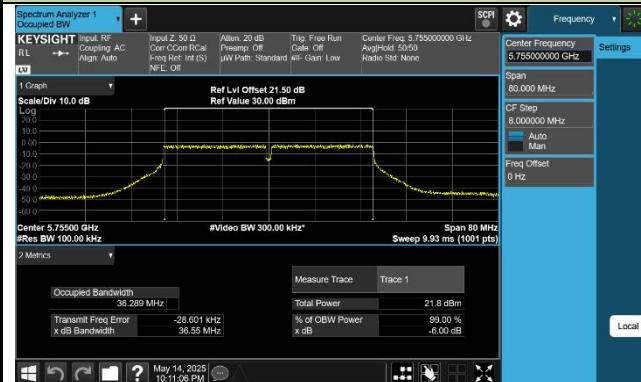


Channel 165 (5825MHz)

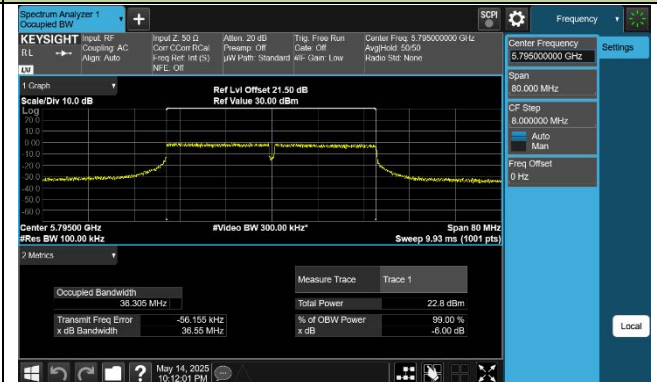


802.11ac-VHT40 6dB Bandwidth

Channel 151 (5755MHz)

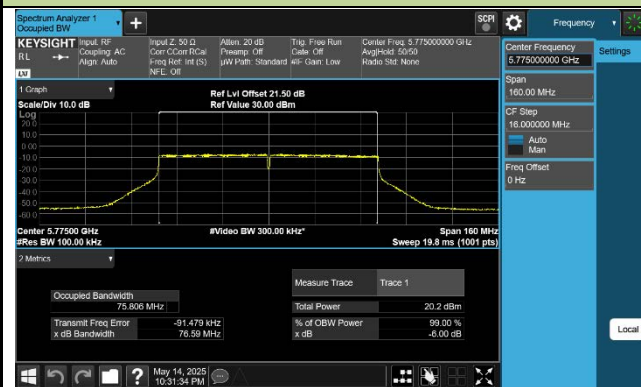


Channel 159 (5795MHz)



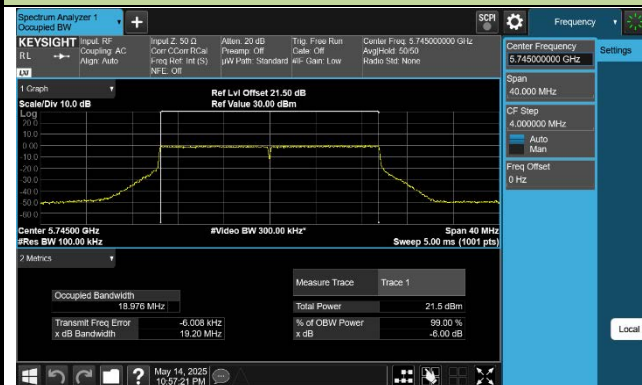
802.11ac-VHT80 6dB Bandwidth

Channel 155 (5775MHz)



802.11ax-HE20 6dB Bandwidth

Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

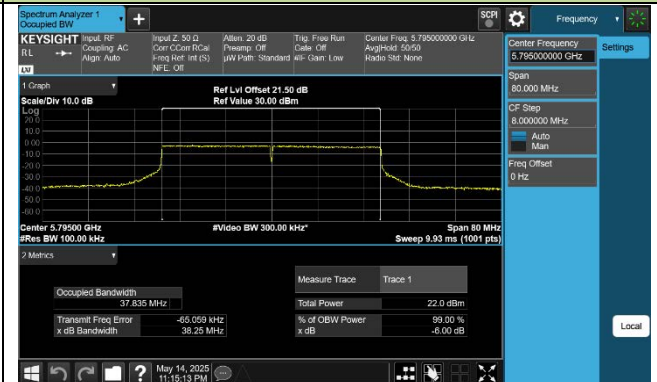


802.11ax-HE40 6dB Bandwidth

Channel 151 (5755MHz)

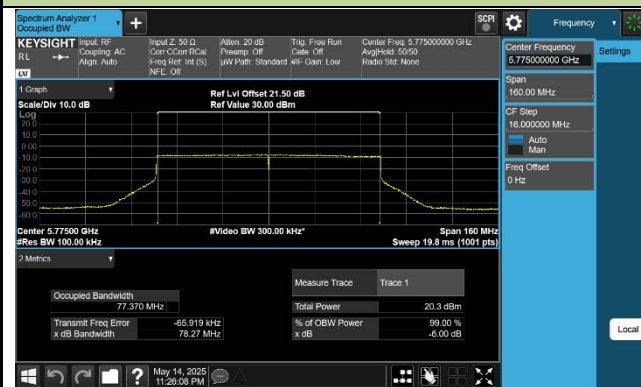


Channel 159 (5795MHz)



802.11ax-HE80 6dB Bandwidth

Channel 155 (5775MHz)

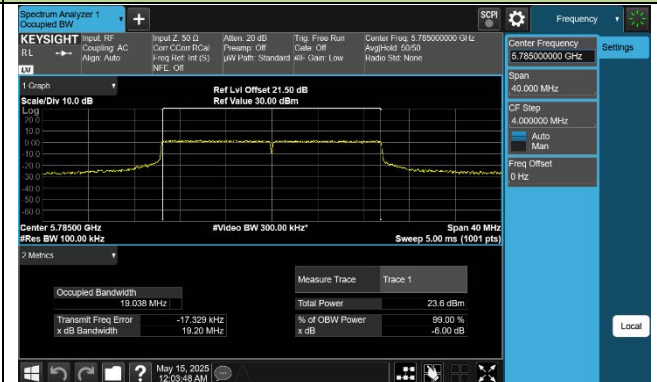


802.11be-EHT20 dB Bandwidth

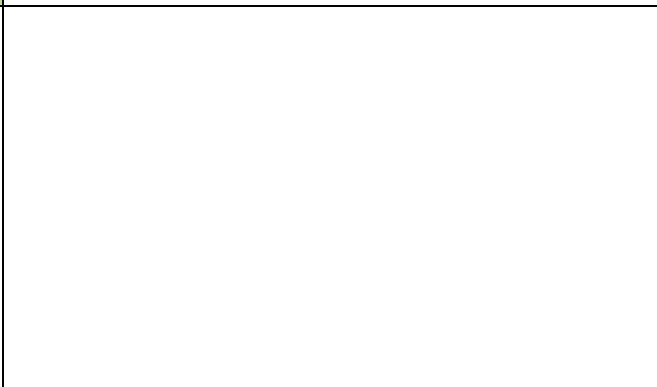
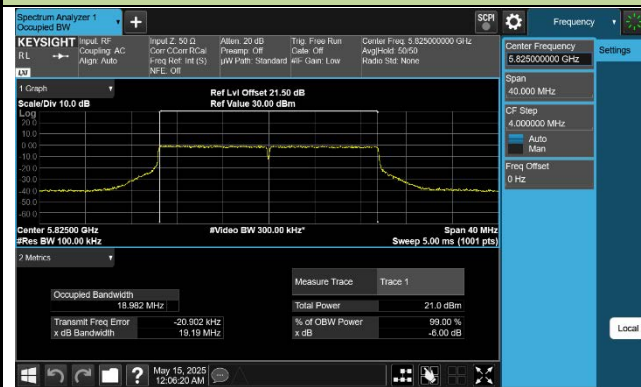
Channel 149 (5745MHz)



Channel 157 (5785MHz)

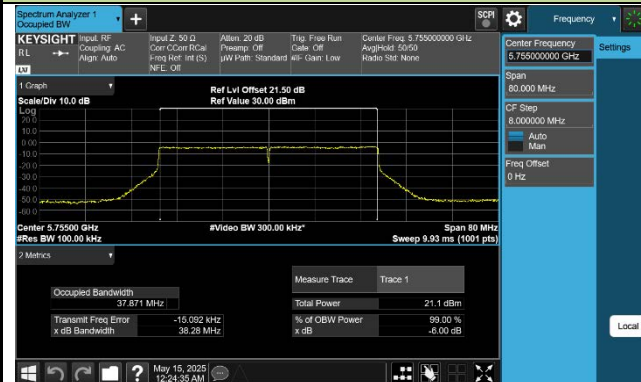


Channel 165 (5825MHz)



802.11be-EHT 40 6dB Bandwidth

Channel 151 (5755MHz)

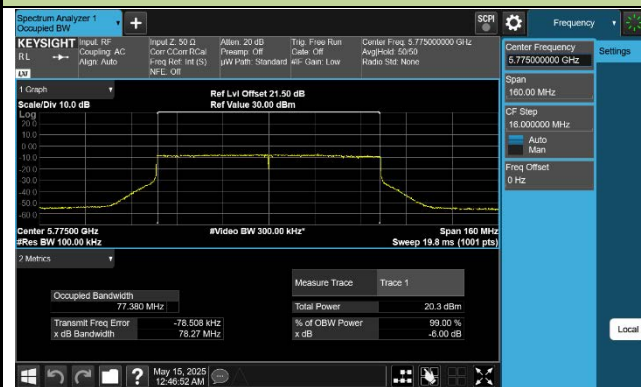


Channel 159 (5795MHz)



802.11be-EHT 80 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.

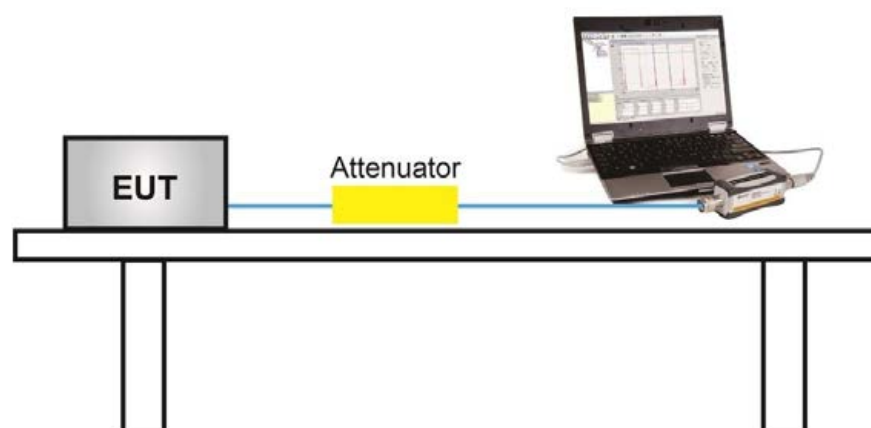
7.4.2. Test Procedure Used

KDB 789033 D02v02r01- 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	BE15000 Ceiling Mount Tri-Band Wi-Fi 7 Access Point	Test Engineer	Fran
Test Site	SR6	Test Date	2025/4/27~2025/5/14
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	18.68	18.65	18.49	18.88	24.70	≤ 30.00	Pass
11a	6Mbps	40	5200	19.87	20.00	19.31	19.85	25.79	≤ 30.00	Pass
11a	6Mbps	48	5240	19.84	19.67	19.55	19.57	25.68	≤ 30.00	Pass
11a	6Mbps	52	5260	13.78	14.00	13.86	13.92	19.91	≤ 23.98	Pass
11a	6Mbps	60	5300	14.05	14.41	13.63	14.30	20.13	≤ 23.98	Pass
11a	6Mbps	64	5320	13.94	14.07	13.50	14.40	20.01	≤ 23.98	Pass
11a	6Mbps	100	5500	14.26	14.10	13.23	13.66	19.85	≤ 23.98	Pass
11a	6Mbps	116	5580	14.42	13.71	13.75	14.19	20.05	≤ 23.98	Pass
11a	6Mbps	140	5700	14.04	13.86	13.93	14.08	20.00	≤ 23.98	Pass
11a	6Mbps	144	5720	14.12	14.02	14.34	14.38	20.24	≤ 22.94	Pass
11a	6Mbps	149	5745	22.09	21.90	21.24	21.55	27.73	≤ 30.00	Pass
11a	6Mbps	157	5785	24.03	24.29	23.60	23.27	29.84	≤ 30.00	Pass
11a	6Mbps	165	5825	21.60	21.69	21.48	21.45	27.58	≤ 30.00	Pass
11ac-VHT20	MCS0	36	5180	19.35	19.07	19.22	19.27	25.25	≤ 30.00	Pass
11ac-VHT20	MCS0	40	5200	20.42	20.81	20.01	20.30	26.42	≤ 30.00	Pass
11ac-VHT20	MCS0	48	5240	20.62	20.18	20.10	20.23	26.31	≤ 30.00	Pass
11ac-VHT20	MCS0	52	5260	13.92	14.08	13.95	14.15	20.05	≤ 23.98	Pass
11ac-VHT20	MCS0	60	5300	14.20	14.62	13.78	14.17	20.22	≤ 23.98	Pass
11ac-VHT20	MCS0	64	5320	14.00	14.15	13.61	14.03	19.97	≤ 23.98	Pass
11ac-VHT20	MCS0	100	5500	15.00	14.55	13.87	14.08	20.42	≤ 23.98	Pass
11ac-VHT20	MCS0	116	5580	14.88	14.36	14.06	14.03	20.37	≤ 23.98	Pass
11ac-VHT20	MCS0	140	5700	14.73	14.36	14.54	14.30	20.51	≤ 23.98	Pass
11ac-VHT20	MCS0	144	5720	14.20	14.08	14.47	14.42	20.32	≤ 23.00	Pass
11ac-VHT20	MCS0	149	5745	22.11	21.87	21.32	21.45	27.72	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	23.96	23.82	23.44	23.89	29.80	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	21.58	21.48	21.71	20.75	27.42	≤ 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	17.83	17.90	17.60	17.53	23.74	≤ 30.00	Pass
11ac-VHT40	MCS0	46	5230	23.38	22.98	22.82	22.74	29.01	≤ 30.00	Pass
11ac-VHT40	MCS0	54	5270	16.70	16.81	16.78	16.61	22.75	≤ 23.98	Pass
11ac-VHT40	MCS0	62	5310	16.96	16.78	16.74	16.70	22.82	≤ 23.98	Pass
11ac-VHT40	MCS0	102	5510	17.44	16.97	17.56	16.03	23.06	≤ 23.98	Pass
11ac-VHT40	MCS0	110	5550	17.31	16.75	17.17	16.47	22.96	≤ 23.98	Pass
11ac-VHT40	MCS0	134	5670	17.03	16.77	16.62	16.66	22.79	≤ 23.98	Pass
11ac-VHT40	MCS0	142	5710	17.06	16.78	17.08	16.84	22.96	≤ 23.98	Pass
11ac-VHT40	MCS0	151	5755	21.91	20.75	21.22	21.10	27.29	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	23.05	22.42	22.06	21.92	28.41	≤ 30.00	Pass
11ac-VHT80	MCS0	42	5210	14.77	14.05	14.72	14.64	20.58	≤ 30.00	Pass
11ac-VHT80	MCS0	58	5290	15.00	14.76	14.57	14.72	20.79	≤ 23.98	Pass
11ac-VHT80	MCS0	106	5530	16.76	15.93	16.19	15.79	22.20	≤ 23.98	Pass
11ac-VHT80	MCS0	122	5610	17.87	17.82	17.68	18.20	23.92	≤ 23.98	Pass
11ac-VHT80	MCS0	138	5690	17.80	18.26	17.68	17.54	23.85	≤ 23.98	Pass
11ac-VHT80	MCS0	155	5775	20.50	20.78	20.51	20.19	26.52	≤ 30.00	Pass
11ac-VHT160	MCS0	50	5250	12.20	11.72	11.57	11.60	17.80	≤ 23.98	Pass
11ac-VHT160	MCS0	114	5570	16.28	15.77	15.58	15.21	21.75	≤ 23.98	Pass
11ax-HE20	MCS0	36	5180	19.23	19.06	18.77	19.07	25.06	≤ 30.00	Pass
11ax-HE20	MCS0	40	5200	20.66	21.02	19.99	20.60	26.60	≤ 30.00	Pass
11ax-HE20	MCS0	48	5240	20.76	18.02	17.49	20.45	25.43	≤ 30.00	Pass
11ax-HE20	MCS0	52	5260	14.05	14.42	13.87	14.27	20.18	≤ 23.98	Pass
11ax-HE20	MCS0	60	5300	14.30	14.86	13.65	14.00	20.25	≤ 23.98	Pass
11ax-HE20	MCS0	64	5320	14.20	14.40	13.73	14.63	20.27	≤ 23.98	Pass
11ax-HE20	MCS0	100	5500	15.12	15.10	13.99	14.61	20.75	≤ 23.98	Pass
11ax-HE20	MCS0	116	5580	14.77	14.80	14.64	14.05	20.60	≤ 23.98	Pass
11ax-HE20	MCS0	140	5700	14.86	14.45	14.68	14.53	20.65	≤ 23.98	Pass
11ax-HE20	MCS0	144	5720	14.30	14.67	14.56	14.22	20.46	≤ 22.94	Pass
11ax-HE20	MCS0	149	5745	21.99	21.66	21.25	21.65	27.67	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	23.79	23.98	23.19	23.68	29.69	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	21.39	21.27	21.52	21.06	27.33	≤ 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	16.61	17.15	16.04	16.79	22.69	≤ 30.00	Pass
11ax-HE40	MCS0	46	5230	23.40	23.40	22.66	22.60	29.05	≤ 30.00	Pass
11ax-HE40	MCS0	54	5270	17.33	17.45	16.99	17.55	23.36	≤ 23.98	Pass
11ax-HE40	MCS0	62	5310	15.82	15.86	15.63	15.55	21.74	≤ 23.98	Pass
11ax-HE40	MCS0	102	5510	17.45	17.26	17.36	16.55	23.19	≤ 23.98	Pass
11ax-HE40	MCS0	110	5550	17.86	17.44	17.60	17.22	23.56	≤ 23.98	Pass
11ax-HE40	MCS0	134	5670	17.56	17.25	17.01	17.02	23.24	≤ 23.98	Pass
11ax-HE40	MCS0	142	5710	17.06	16.82	16.94	16.80	22.93	≤ 23.98	Pass
11ax-HE40	MCS0	151	5755	21.83	21.28	21.03	20.72	27.25	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	22.28	21.80	21.03	20.65	27.51	≤ 30.00	Pass
11ax-HE80	MCS0	42	5210	14.75	14.56	14.62	14.58	20.65	≤ 30.00	Pass
11ax-HE80	MCS0	58	5290	15.01	15.26	14.26	14.45	20.78	≤ 23.98	Pass
11ax-HE80	MCS0	106	5530	16.77	16.67	16.14	15.16	22.25	≤ 23.98	Pass
11ax-HE80	MCS0	122	5610	17.86	17.42	17.21	18.17	23.70	≤ 23.98	Pass
11ax-HE80	MCS0	138	5690	17.48	17.66	17.69	17.85	23.69	≤ 23.98	Pass
11ax-HE80	MCS0	155	5775	20.47	20.10	19.47	19.87	26.01	≤ 30.00	Pass
11ax-HE160	MCS0	50	5250	12.19	11.83	11.53	11.35	17.76	≤ 23.98	Pass
11ax-HE160	MCS0	114	5570	16.60	16.20	16.03	15.32	22.08	≤ 23.98	Pass
11be-EHT20	MCS0	36	5180	18.81	18.89	18.68	18.86	24.83	≤ 30.00	Pass
11be-EHT20	MCS0	40	5200	20.56	20.99	19.95	20.41	26.51	≤ 30.00	Pass
11be-EHT20	MCS0	48	5240	20.70	20.66	19.84	20.04	26.35	≤ 30.00	Pass
11be-EHT20	MCS0	52	5260	14.00	14.27	13.76	14.26	20.10	≤ 23.98	Pass
11be-EHT20	MCS0	60	5300	14.25	14.71	13.62	14.41	20.29	≤ 23.98	Pass
11be-EHT20	MCS0	64	5320	14.12	14.45	13.57	14.40	20.17	≤ 23.98	Pass
11be-EHT20	MCS0	100	5500	15.07	14.87	13.64	14.06	20.47	≤ 23.98	Pass
11be-EHT20	MCS0	116	5580	14.75	14.54	14.23	14.93	20.64	≤ 23.98	Pass
11be-EHT20	MCS0	140	5700	14.85	14.67	14.38	14.68	20.67	≤ 23.98	Pass
11be-EHT20	MCS0	144	5720	14.24	14.43	14.41	14.41	20.39	≤ 22.93	Pass
11be-EHT20	MCS0	149	5745	22.18	21.96	20.99	21.77	27.77	≤ 30.00	Pass
11be-EHT20	MCS0	157	5785	23.62	23.79	23.77	23.91	29.79	≤ 30.00	Pass
11be-EHT20	MCS0	165	5825	21.54	21.75	21.29	21.50	27.54	≤ 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	16.32	16.50	15.80	16.24	22.24	≤ 30.00	Pass
11be-EHT40	MCS0	46	5230	23.59	23.30	23.62	23.94	29.64	≤ 30.00	Pass
11be-EHT40	MCS0	54	5270	17.40	17.65	17.68	18.31	23.79	≤ 23.98	Pass
11be-EHT40	MCS0	62	5310	17.31	17.34	16.95	17.81	23.38	≤ 23.98	Pass
11be-EHT40	MCS0	102	5510	17.64	17.20	18.45	17.37	23.71	≤ 23.98	Pass
11be-EHT40	MCS0	110	5550	18.37	17.21	18.10	18.00	23.96	≤ 23.98	Pass
11be-EHT40	MCS0	134	5670	17.99	17.59	17.54	17.72	23.73	≤ 23.98	Pass
11be-EHT40	MCS0	142	5710	17.52	17.60	17.78	18.24	23.81	≤ 23.98	Pass
11be-EHT40	MCS0	151	5755	21.46	20.30	20.00	20.87	26.71	≤ 30.00	Pass
11be-EHT40	MCS0	159	5795	22.75	21.90	21.10	21.48	27.87	≤ 30.00	Pass
11be-EHT80	MCS0	42	5210	14.78	14.42	14.56	14.33	20.55	≤ 30.00	Pass
11be-EHT80	MCS0	58	5290	15.81	15.61	15.07	15.38	21.50	≤ 23.98	Pass
11be-EHT80	MCS0	106	5530	15.06	15.36	15.30	14.73	21.14	≤ 23.98	Pass
11be-EHT80	MCS0	122	5610	17.56	17.91	17.36	18.07	23.75	≤ 23.98	Pass
11be-EHT80	MCS0	138	5690	17.90	18.11	17.69	17.85	23.91	≤ 23.98	Pass
11be-EHT80	MCS0	155	5775	20.39	20.29	19.66	20.10	26.14	≤ 30.00	Pass
11be-EHT160	MCS0	50	5250	12.25	11.67	11.36	11.47	17.72	≤ 23.98	Pass
11be-EHT160	MCS0	114	5570	16.85	16.33	15.91	15.66	22.23	≤ 23.98	Pass
11be-EHT240	MCS0	130	5650	13.79	13.94	13.96	14.12	19.97	≤ 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.

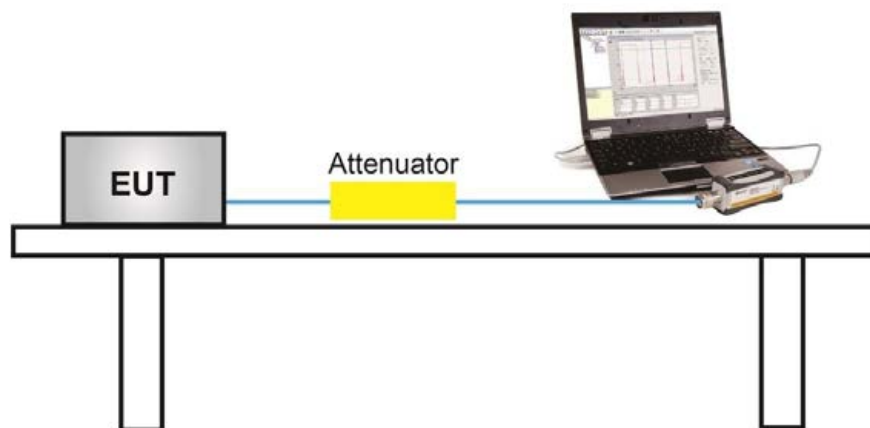
7.5.2. Test Procedure Used

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.

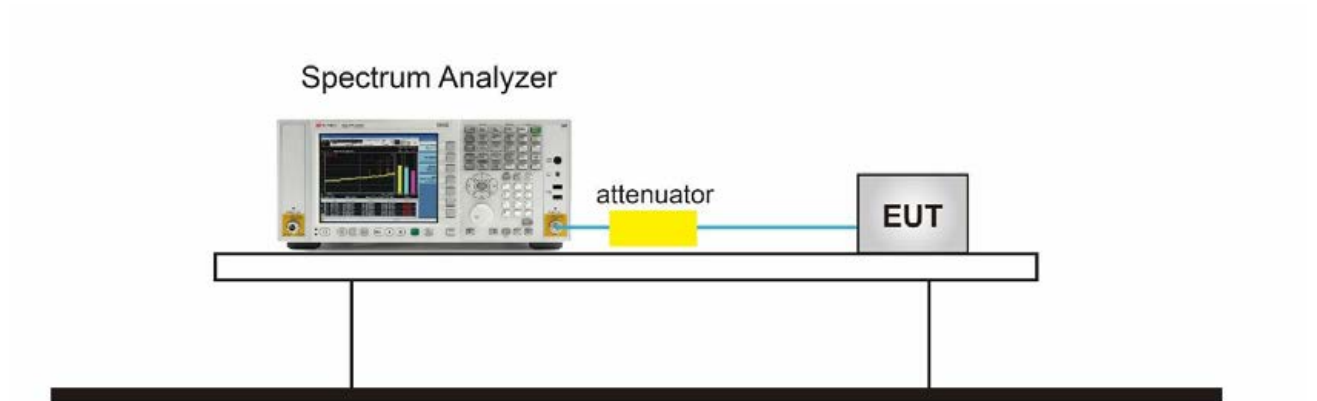
7.6.2. Test Procedure Used

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	BE15000 Ceiling Mount Tri-Band Wi-Fi 7 Access Point	Test Engineer	Fran
Test Site	SR6	Test Date	2025/4/27~2025/5/14
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	7.605	7.513	7.349	8.016	99.25%	13.681	≤ 14.98	Pass
11a	6Mbps	40	5200	8.079	8.604	8.709	9.304	99.25%	14.749	≤ 14.98	Pass
11a	6Mbps	48	5240	8.541	8.631	8.442	9.114	99.25%	14.743	≤ 14.98	Pass
11a	6Mbps	52	5260	2.244	2.886	2.901	3.059	99.25%	8.837	≤ 8.98	Pass
11a	6Mbps	60	5300	2.534	3.287	2.676	2.483	99.25%	8.810	≤ 8.98	Pass
11a	6Mbps	64	5320	2.562	2.938	2.181	2.568	99.25%	8.624	≤ 8.98	Pass
11a	6Mbps	100	5500	2.634	2.979	2.617	2.648	99.25%	8.775	≤ 8.98	Pass
11a	6Mbps	116	5580	2.300	2.504	1.419	3.225	99.25%	8.463	≤ 8.98	Pass
11a	6Mbps	140	5700	2.265	2.667	2.586	3.056	99.25%	8.706	≤ 8.98	Pass
11a	6Mbps	144	5720	2.135	2.764	2.625	3.362	99.25%	8.797	≤ 8.98	Pass
11ac-VHT20	MCS0	36	5180	8.264	8.088	7.647	8.184	99.45%	14.097	≤ 14.98	Pass
11ac-VHT20	MCS0	40	5200	8.381	8.829	8.909	9.186	99.45%	14.880	≤ 14.98	Pass
11ac-VHT20	MCS0	48	5240	8.772	8.901	8.885	8.946	99.45%	14.921	≤ 14.98	Pass
11ac-VHT20	MCS0	52	5260	1.832	2.620	2.472	2.605	99.45%	8.438	≤ 8.98	Pass
11ac-VHT20	MCS0	60	5300	2.003	2.997	2.324	3.063	99.45%	8.664	≤ 8.98	Pass
11ac-VHT20	MCS0	64	5320	1.859	2.661	2.083	3.181	99.45%	8.521	≤ 8.98	Pass
11ac-VHT20	MCS0	100	5500	2.629	2.959	2.669	3.068	99.45%	8.880	≤ 8.98	Pass
11ac-VHT20	MCS0	116	5580	2.338	2.693	2.905	2.512	99.45%	8.662	≤ 8.98	Pass
11ac-VHT20	MCS0	140	5700	2.417	2.553	3.299	3.355	99.45%	8.971	≤ 8.98	Pass
11ac-VHT20	MCS0	144	5720	1.774	2.440	3.599	3.165	99.45%	8.844	≤ 8.98	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	3.424	3.494	3.047	3.791	97.30%	9.587	≤ 14.98	Pass
11ac-VHT40	MCS0	46	5230	8.384	8.780	8.814	8.962	97.30%	14.880	≤ 14.98	Pass
11ac-VHT40	MCS0	54	5270	1.642	2.362	2.679	2.900	97.30%	8.561	≤ 8.98	Pass
11ac-VHT40	MCS0	62	5310	2.490	2.393	2.612	2.901	97.30%	8.743	≤ 8.98	Pass
11ac-VHT40	MCS0	102	5510	2.236	2.696	3.406	2.852	97.30%	8.957	≤ 8.98	Pass
11ac-VHT40	MCS0	110	5550	2.031	2.324	3.002	2.668	97.30%	8.661	≤ 8.98	Pass
11ac-VHT40	MCS0	134	5670	1.996	2.076	2.516	2.433	97.30%	8.400	≤ 8.98	Pass
11ac-VHT40	MCS0	142	5710	1.901	2.235	3.494	3.340	97.30%	8.936	≤ 8.98	Pass
11ac-VHT80	MCS0	42	5210	-2.780	-2.717	-2.629	-2.222	96.77%	3.582	≤ 14.98	Pass
11ac-VHT80	MCS0	58	5290	-2.452	-2.138	-2.892	-2.756	96.77%	3.613	≤ 8.98	Pass
11ac-VHT80	MCS0	106	5530	-0.859	-0.649	-0.639	-1.180	96.77%	5.337	≤ 8.98	Pass
11ac-VHT80	MCS0	122	5610	0.646	0.066	0.864	0.919	96.77%	6.800	≤ 8.98	Pass
11ac-VHT80	MCS0	138	5690	0.794	1.106	1.800	1.310	96.77%	7.431	≤ 8.98	Pass
11ac-VHT160	MCS0	50	5250	-8.068	-8.518	-7.746	-8.046	96.79%	-1.924	≤ 8.98	Pass
11ac-VHT160	MCS0	114	5570	-3.794	-4.167	-3.858	-4.203	96.79%	2.161	≤ 8.98	Pass
11ax-HE20	MCS0	36	5180	7.352	7.792	7.589	8.106	98.72%	13.795	≤ 14.98	Pass
11ax-HE20	MCS0	40	5200	8.027	8.916	8.463	9.084	98.72%	14.718	≤ 14.98	Pass
11ax-HE20	MCS0	48	5240	8.374	8.998	8.716	8.985	98.72%	14.852	≤ 14.98	Pass
11ax-HE20	MCS0	52	5260	1.956	2.939	2.582	2.896	98.72%	8.687	≤ 8.98	Pass
11ax-HE20	MCS0	60	5300	1.997	2.831	2.225	2.877	98.72%	8.576	≤ 8.98	Pass
11ax-HE20	MCS0	64	5320	1.851	2.736	2.000	3.054	98.72%	8.516	≤ 8.98	Pass
11ax-HE20	MCS0	100	5500	2.423	2.802	2.548	3.129	98.72%	8.811	≤ 8.98	Pass
11ax-HE20	MCS0	116	5580	2.130	2.848	2.965	3.476	98.72%	8.958	≤ 8.98	Pass
11ax-HE20	MCS0	140	5700	2.237	2.486	3.191	3.296	98.72%	8.902	≤ 8.98	Pass
11ax-HE20	MCS0	144	5720	1.559	2.306	3.279	3.279	98.72%	8.741	≤ 8.98	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	2.009	2.432	2.186	2.885	98.19%	8.491	≤ 14.98	Pass
11ax-HE40	MCS0	46	5230	7.716	8.224	8.491	8.983	98.19%	14.478	≤ 14.98	Pass
11ax-HE40	MCS0	54	5270	1.943	2.648	2.725	3.237	98.19%	8.762	≤ 8.98	Pass
11ax-HE40	MCS0	62	5310	1.266	1.076	0.974	1.350	98.19%	7.269	≤ 8.98	Pass
11ax-HE40	MCS0	102	5510	1.627	2.113	3.220	2.638	98.19%	8.540	≤ 8.98	Pass
11ax-HE40	MCS0	110	5550	2.293	2.085	2.550	2.290	98.19%	8.408	≤ 8.98	Pass
11ax-HE40	MCS0	134	5670	2.032	2.430	2.511	2.747	98.19%	8.537	≤ 8.98	Pass
11ax-HE40	MCS0	142	5710	1.247	1.872	2.975	3.195	98.19%	8.494	≤ 8.98	Pass
11ax-HE80	MCS0	42	5210	-2.210	-2.886	-2.272	-2.166	98.73%	3.702	≤ 14.98	Pass
11ax-HE80	MCS0	58	5290	-2.269	-2.410	-2.853	-2.856	98.73%	3.487	≤ 8.98	Pass
11ax-HE80	MCS0	106	5530	-0.452	-1.035	-0.486	-1.187	98.73%	5.298	≤ 8.98	Pass
11ax-HE80	MCS0	122	5610	0.663	0.000	1.212	0.794	98.73%	6.765	≤ 8.98	Pass
11ax-HE80	MCS0	122	5690	0.465	0.367	1.298	1.056	98.73%	6.890	≤ 8.98	Pass
11ax-HE160	MCS0	50	5250	-8.472	-8.953	-8.228	-8.632	98.91%	-2.495	≤ 8.98	Pass
11ax-HE160	MCS0	114	5570	-3.614	-4.104	-3.596	-3.929	98.91%	2.263	≤ 8.98	Pass
11be-EHT20	MCS0	36	5180	7.255	8.053	7.385	7.627	97.50%	13.721	≤ 14.98	Pass
11be-EHT20	MCS0	40	5200	7.564	8.789	8.216	9.224	97.50%	14.623	≤ 14.98	Pass
11be-EHT20	MCS0	48	5240	7.837	8.810	8.835	8.868	97.50%	14.739	≤ 14.98	Pass
11be-EHT20	MCS0	52	5260	1.911	2.377	2.307	2.730	97.50%	8.472	≤ 8.98	Pass
11be-EHT20	MCS0	60	5300	1.601	2.671	1.935	3.217	97.50%	8.532	≤ 8.98	Pass
11be-EHT20	MCS0	64	5320	1.725	2.280	1.911	3.115	97.50%	8.422	≤ 8.98	Pass
11be-EHT20	MCS0	100	5500	2.464	2.911	2.547	3.005	97.50%	8.868	≤ 8.98	Pass
11be-EHT20	MCS0	116	5580	1.826	2.395	2.788	3.406	97.50%	8.772	≤ 8.98	Pass
11be-EHT20	MCS0	140	5700	1.830	2.517	3.391	3.350	97.50%	8.950	≤ 8.98	Pass
11be-EHT20	MCS0	144	5720	1.277	2.072	3.127	3.374	97.50%	8.673	≤ 8.98	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	1.411	1.349	1.235	1.523	97.85%	7.496	≤ 14.98	Pass
11be-EHT40	MCS0	46	5230	8.066	8.561	8.317	8.635	97.85%	14.515	≤ 14.98	Pass
11be-EHT40	MCS0	54	5270	2.025	2.569	2.439	3.214	97.85%	8.698	≤ 8.98	Pass
11be-EHT40	MCS0	62	5310	2.764	2.293	2.339	2.677	97.85%	8.638	≤ 8.98	Pass
11be-EHT40	MCS0	102	5510	1.753	2.110	3.244	2.222	97.85%	8.484	≤ 8.98	Pass
11be-EHT40	MCS0	110	5550	2.321	2.578	3.253	2.742	97.85%	8.852	≤ 8.98	Pass
11be-EHT40	MCS0	134	5670	1.983	2.326	2.718	2.689	97.85%	8.554	≤ 8.98	Pass
11be-EHT40	MCS0	142	5710	1.414	2.614	2.969	2.440	97.85%	8.511	≤ 8.98	Pass
11be-EHT80	MCS0	42	5210	-3.010	-3.341	-2.436	-2.469	96.81%	3.364	≤ 14.98	Pass
11be-EHT80	MCS0	58	5290	-1.792	-1.902	-2.063	-2.482	96.81%	4.109	≤ 8.98	Pass
11be-EHT80	MCS0	106	5530	-2.144	-2.372	-1.791	-2.650	96.81%	3.934	≤ 8.98	Pass
11be-EHT80	MCS0	122	5610	0.427	-0.370	0.764	0.905	96.81%	6.620	≤ 8.98	Pass
11be-EHT80	MCS0	138	5690	0.759	0.362	1.775	1.338	96.81%	7.253	≤ 8.98	Pass
11be-EHT160	MCS0	50	5250	-8.404	-9.284	-8.163	-8.675	98.20%	-2.512	≤ 8.98	Pass
11be-EHT160	MCS0	114	5570	-3.532	-4.466	-3.593	-4.069	98.20%	2.201	≤ 8.98	Pass
11be-EHT240	MCS0	130	5650	-8.487	-8.620	-7.322	-7.607	97.67%	-1.850	≤ 8.98	Pass

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

Note 2:

For 5150 - 5250MHz Band: PSD Limit (dBm/MHz) = 17 - (8.02 - 6) = 14.98dBm/MHz.

For 5250 - 5350MHz and 5470 - 5725MHz Band: PSD Limit (dBm/MHz) = 11 - (8.02 - 6) = 8.98dBm/MHz.

Product	BE15000 Ceiling Mount Tri-Band Wi-Fi 7 Access Point	Test Engineer	Fran
Test Site	SR6	Test Date	2025/4/27~2025/5/14
Test Item	Power Spectral Density (U-NII-3) CDD Mode		

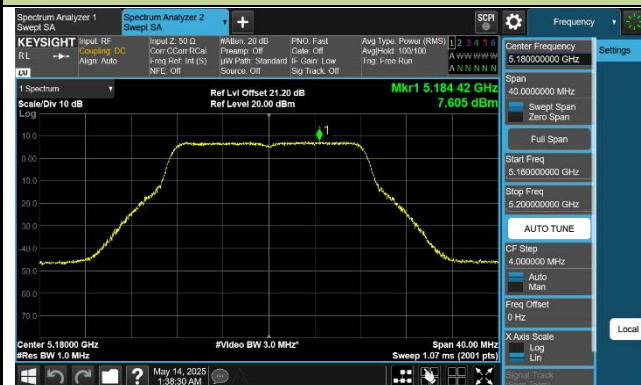
Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/51 0KHz)	Ant 1 PSD (dBm/51 0KHz)	Ant 2 PSD (dBm/51 0KHz)	Ant 3 PSD (dBm/51 0KHz)	Duty Cycle (%)	Total PSD(dB m/ 510kHz)	Limit (dBm/ 500kHz)	Result
11a	6Mbps	149	5745	8.198	8.072	8.178	7.902	99.25%	14.142	≤ 27.98	Pass
11a	6Mbps	157	5785	9.530	9.427	9.155	9.390	99.25%	15.431	≤ 27.98	Pass
11a	6Mbps	165	5825	7.447	7.713	7.744	7.724	99.25%	13.712	≤ 27.98	Pass
11ac-VHT20	MCS0	149	5745	7.852	7.498	7.475	7.560	99.45%	13.643	≤ 27.98	Pass
11ac-VHT20	MCS0	157	5785	9.567	9.481	9.396	9.280	99.45%	15.477	≤ 27.98	Pass
11ac-VHT20	MCS0	165	5825	7.434	7.321	7.612	7.072	99.45%	13.409	≤ 27.98	Pass
11ac-VHT40	MCS0	151	5755	5.126	4.189	4.174	4.874	97.30%	10.750	≤ 27.98	Pass
11ac-VHT40	MCS0	159	5795	6.141	5.891	5.362	4.892	97.30%	11.738	≤ 27.98	Pass
11ac-VHT80	MCS0	155	5775	0.313	0.124	0.742	1.369	96.77%	6.827	≤ 27.98	Pass
11ax-HE20	MCS0	149	5745	7.339	6.938	7.276	7.417	98.72%	13.323	≤ 27.98	Pass
11ax-HE20	MCS0	157	5785	9.113	9.509	9.258	8.854	98.72%	15.267	≤ 27.98	Pass
11ax-HE20	MCS0	165	5825	6.799	7.139	7.668	7.079	98.72%	13.259	≤ 27.98	Pass
11ax-HE40	MCS0	151	5755	4.677	3.967	4.114	4.362	98.19%	10.388	≤ 27.98	Pass
11ax-HE40	MCS0	159	5795	4.949	4.206	4.114	3.551	98.19%	10.334	≤ 27.98	Pass
11ax-HE80	MCS0	155	5775	0.173	-0.107	0.977	1.055	98.73%	6.629	≤ 27.98	Pass
11be-EHT20	MCS0	149	5745	7.588	7.324	7.415	7.649	97.50%	13.627	≤ 27.98	Pass
11be-EHT20	MCS0	157	5785	9.527	8.756	8.884	8.702	97.50%	15.111	≤ 27.98	Pass
11be-EHT20	MCS0	165	5825	6.804	6.779	7.625	7.358	97.50%	13.287	≤ 27.98	Pass
11be-EHT40	MCS0	151	5755	3.744	2.964	3.526	3.676	97.85%	9.603	≤ 27.98	Pass
11be-EHT40	MCS0	159	5795	5.476	4.921	4.286	3.979	97.85%	10.819	≤ 27.98	Pass
11be-EHT80	MCS0	155	5775	-0.126	-0.015	0.696	0.541	96.81%	6.450	≤ 27.98	Pass

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

Note 2: PSD Limit (dBm/500kHz) = 30 - (8.02 - 6) = 27.98 (dBm/500kHz).

802.11a Power Spectral Density - Ant 0

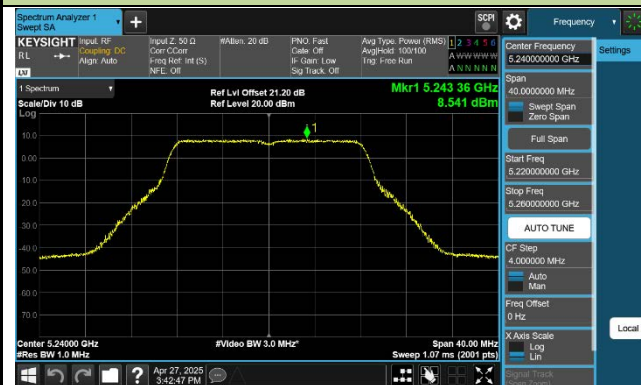
Channel 36 (5180MHz)



Channel 40 (5200MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)

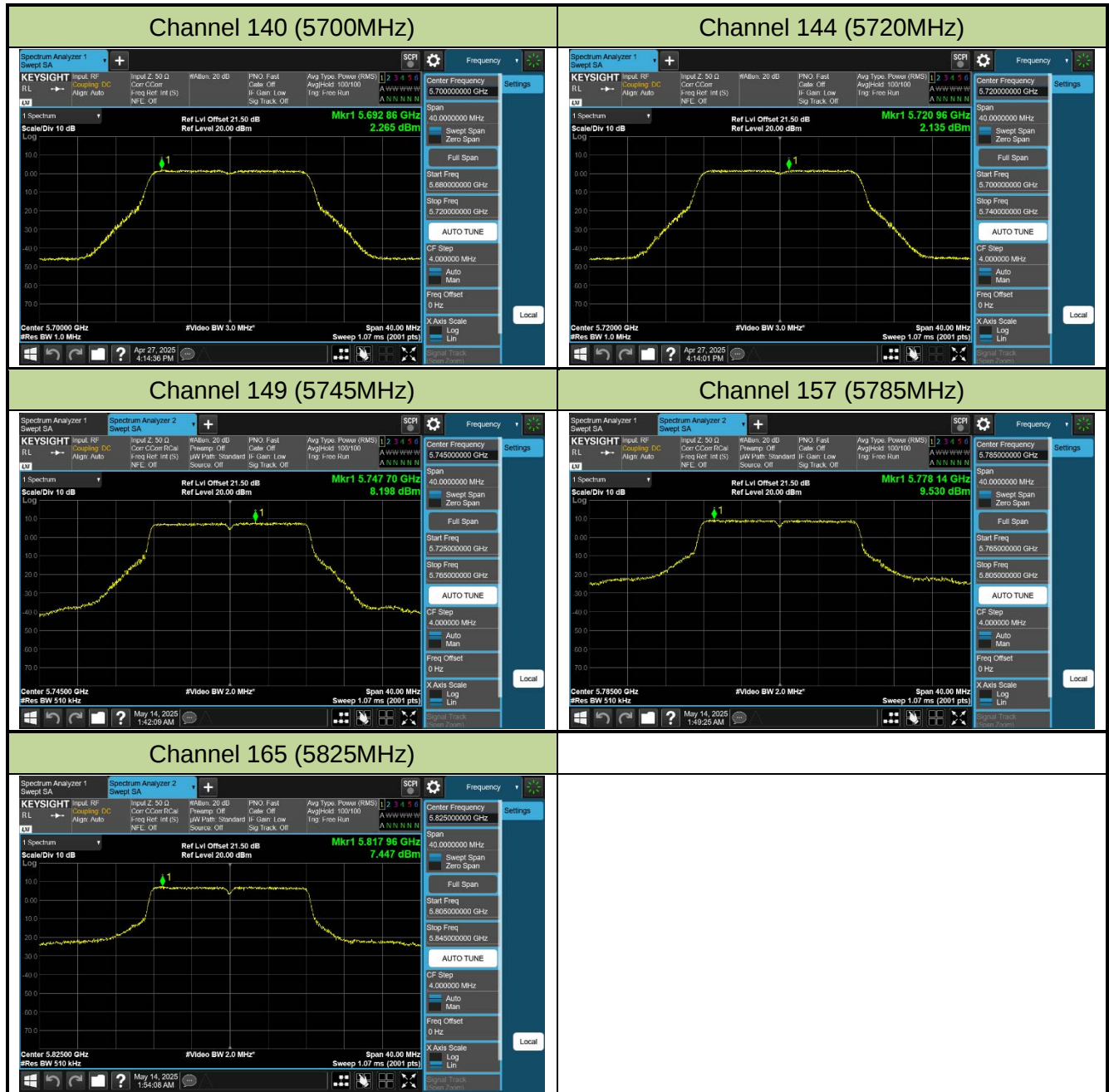


Channel 100 (5500MHz)



Channel 116 (5580MHz)



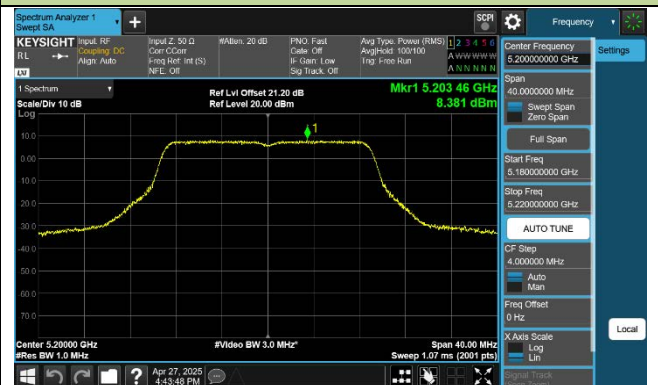


802.11ac-VHT20 Power Spectral Density - Ant 0

Channel 36 (5180MHz)



Channel 40 (5200MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)



Channel 140 (5700MHz)



Channel 144 (5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

