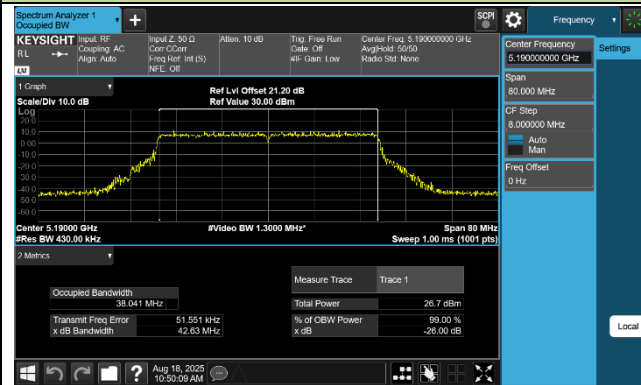
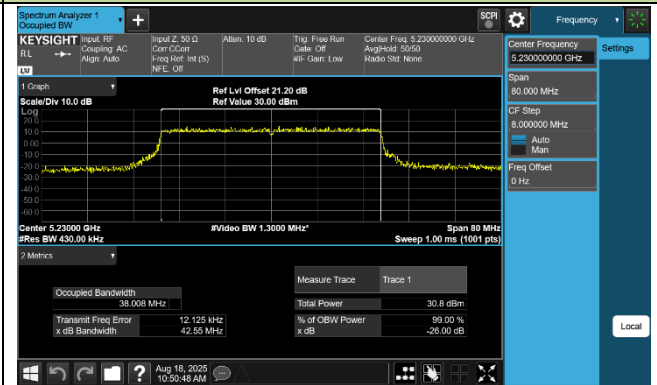


802.11ax-HE40 26dB Bandwidth & 99% Bandwidth

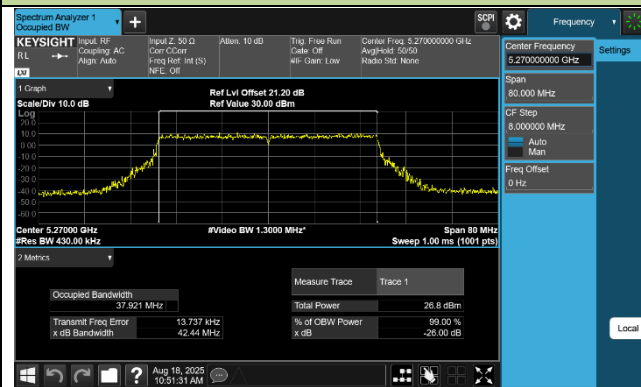
Channel 38 (5190MHz)



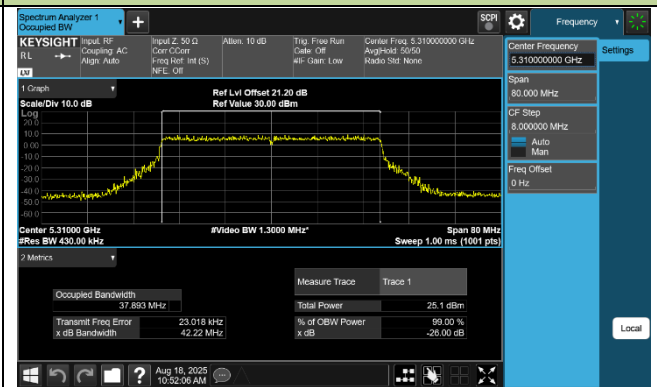
Channel 46 (5230MHz)



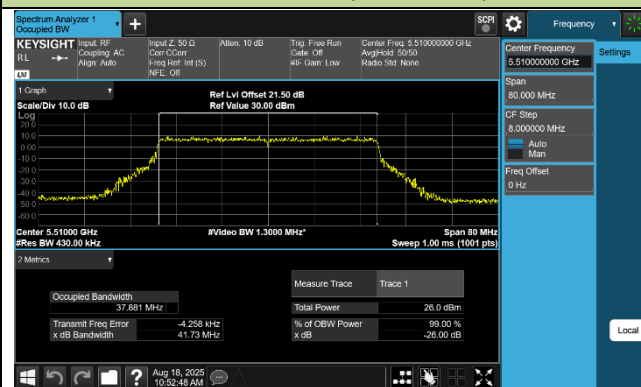
Channel 54 (5270MHz)



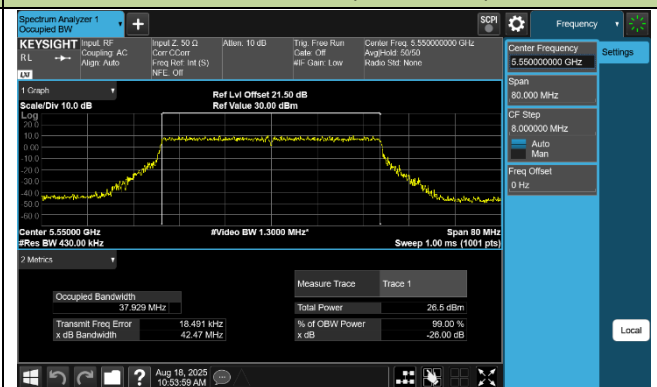
Channel 62 (5310MHz)



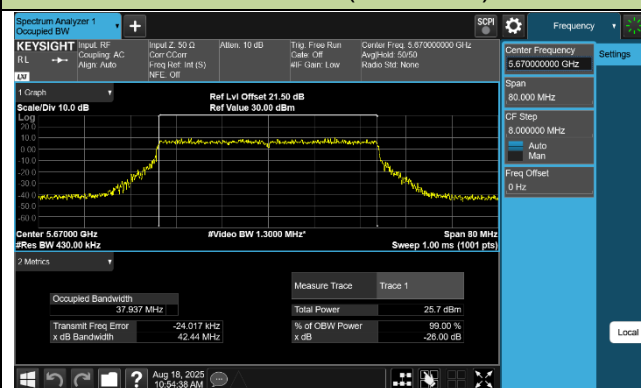
Channel 102 (5510MHz)



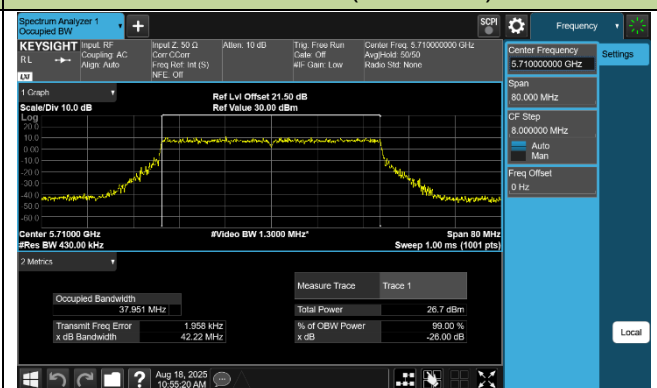
Channel 110 (5550MHz)

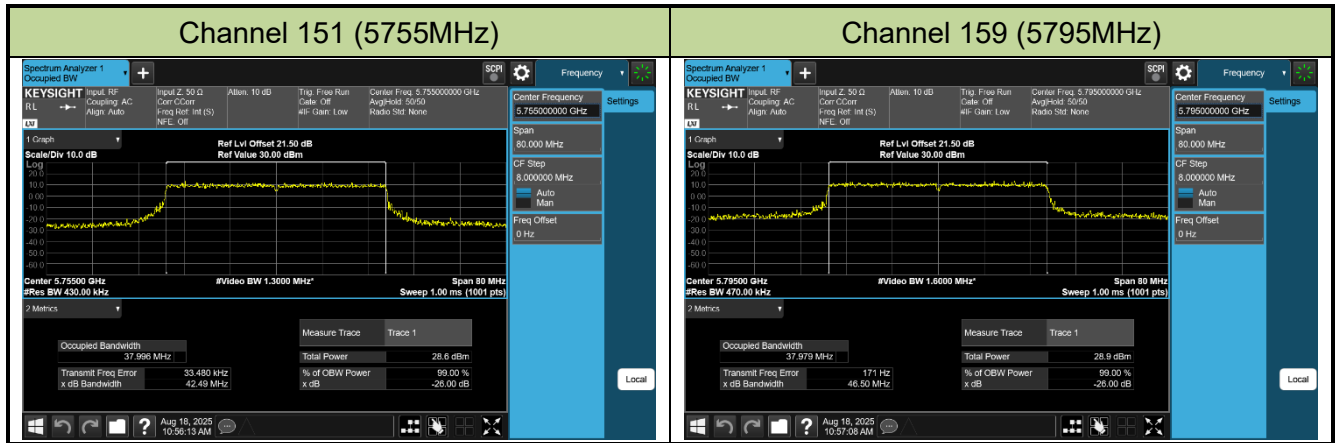


Channel 134 (5670MHz)



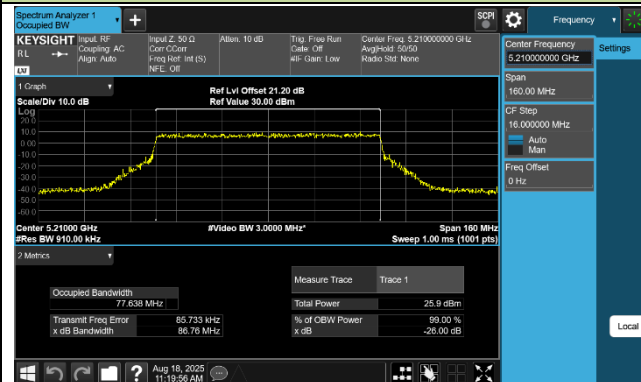
Channel 142 (5710MHz)



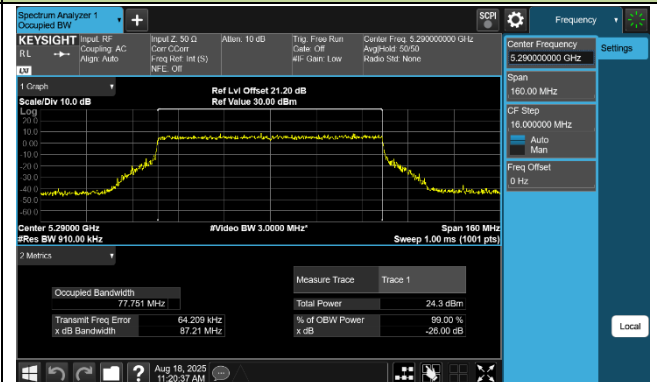


802.11ax-HE80 26dB Bandwidth & 99% Bandwidth

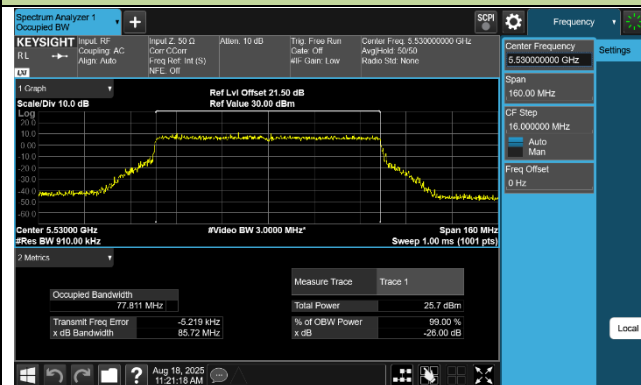
Channel 42 (5210MHz)



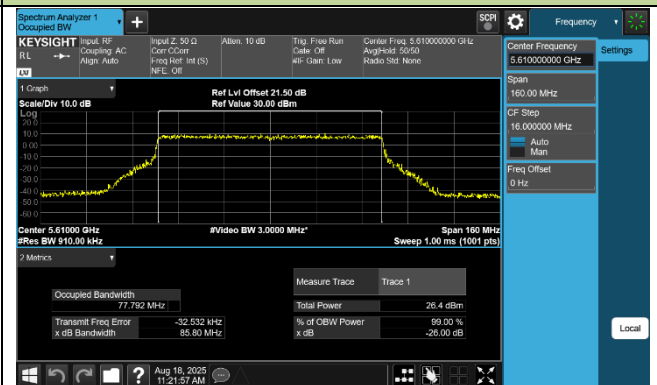
Channel 58 (5290MHz)



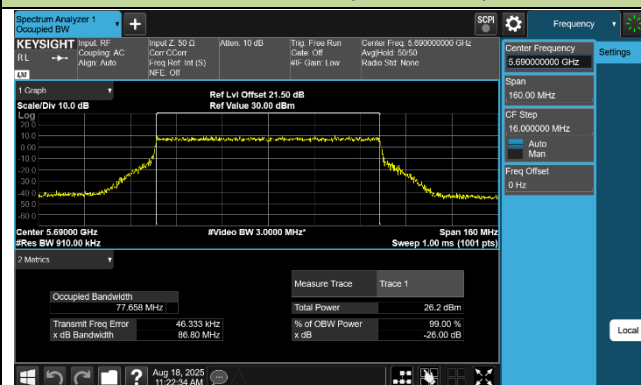
Channel 106 (5530MHz)



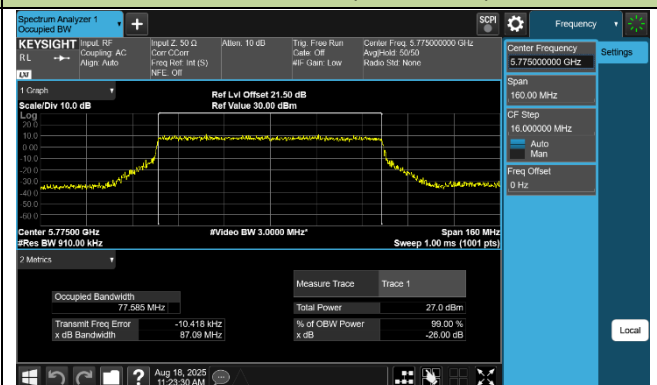
Channel 122 (5610MHz)



Channel 138 (5690MHz)

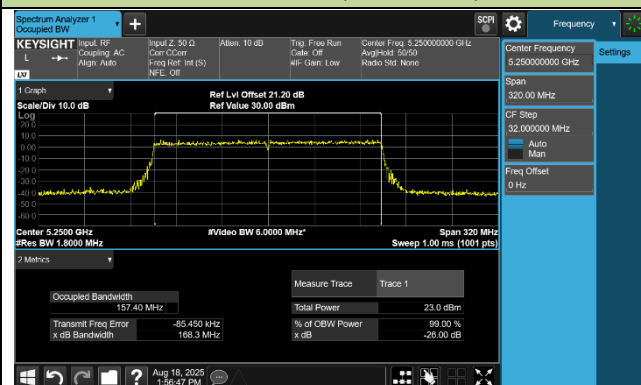


Channel 155 (5775MHz)

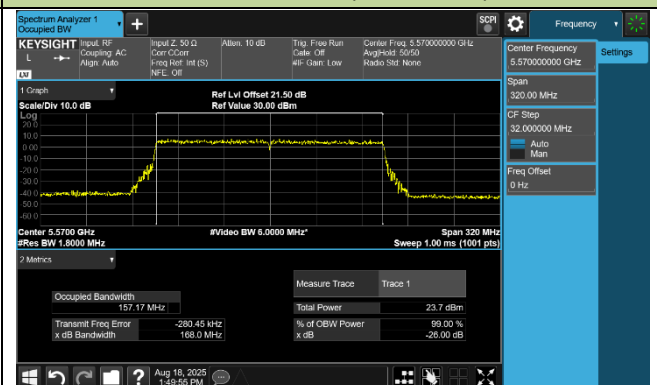


802.11ax-HE160 26dB Bandwidth & 99% Bandwidth

Channel 50 (5250MHz)

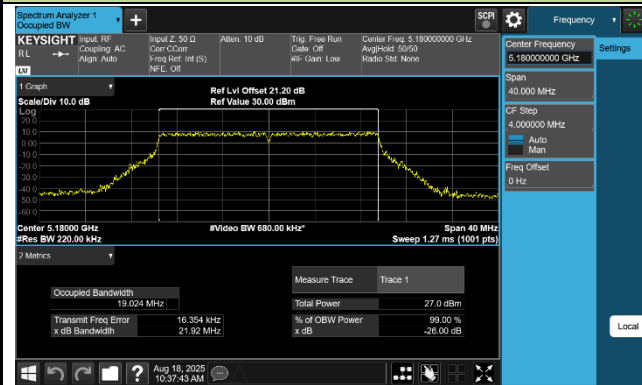


Channel 114 (5570MHz)

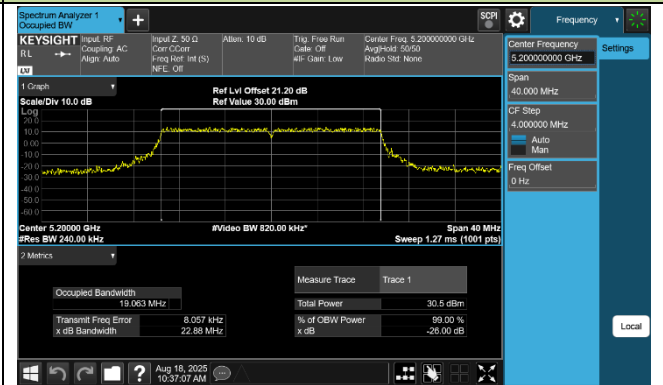


802.11be-EHT20 26dB Bandwidth & 99% Bandwidth

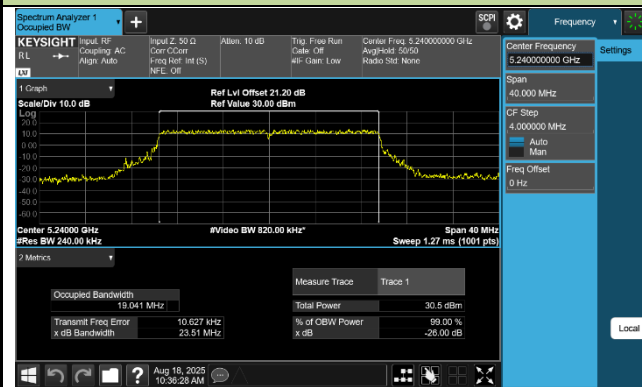
Channel 36 (5180MHz)



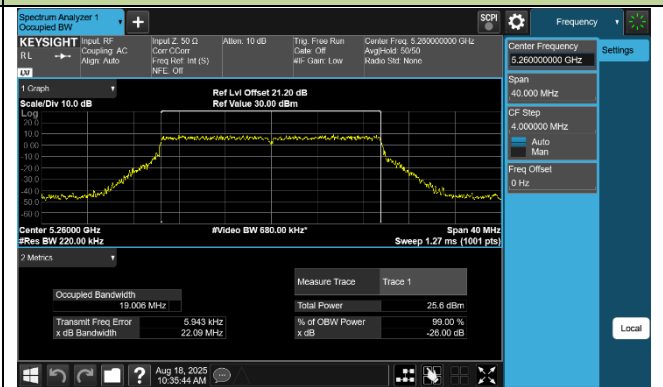
Channel 40 (5200MHz)



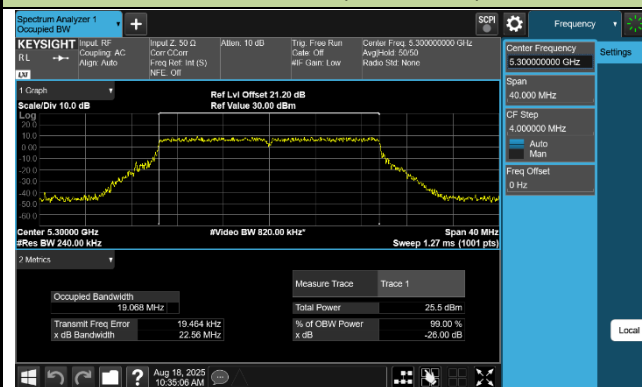
Channel 48 (5240MHz)



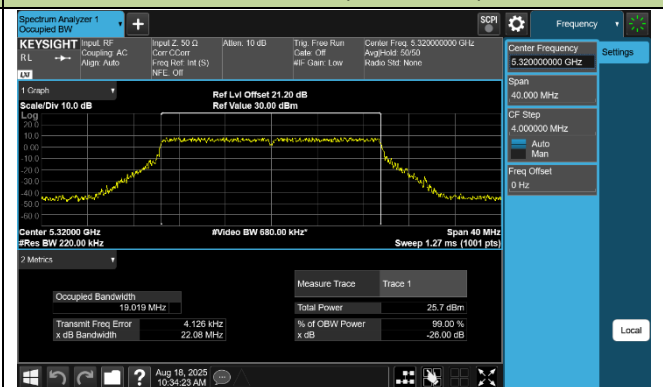
Channel 52 (5260MHz)



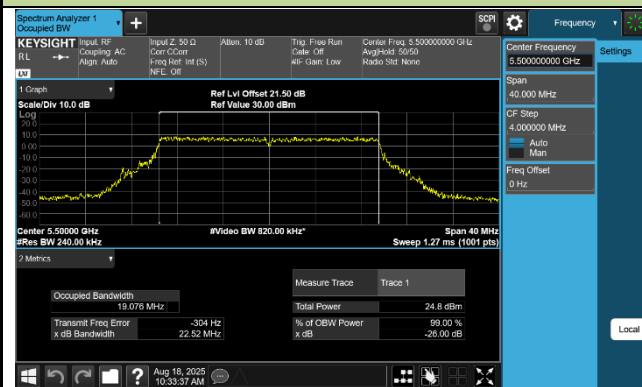
Channel 60 (5300MHz)



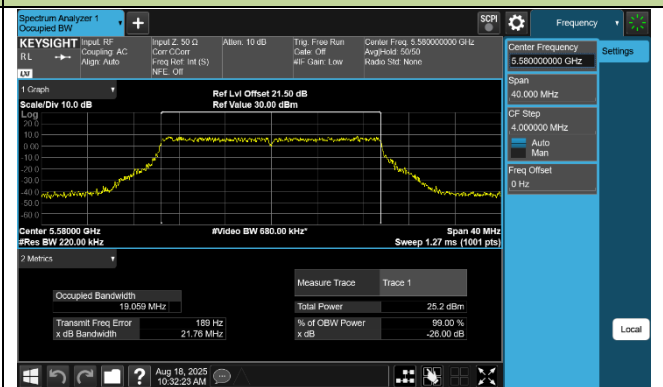
Channel 64 (5320MHz)

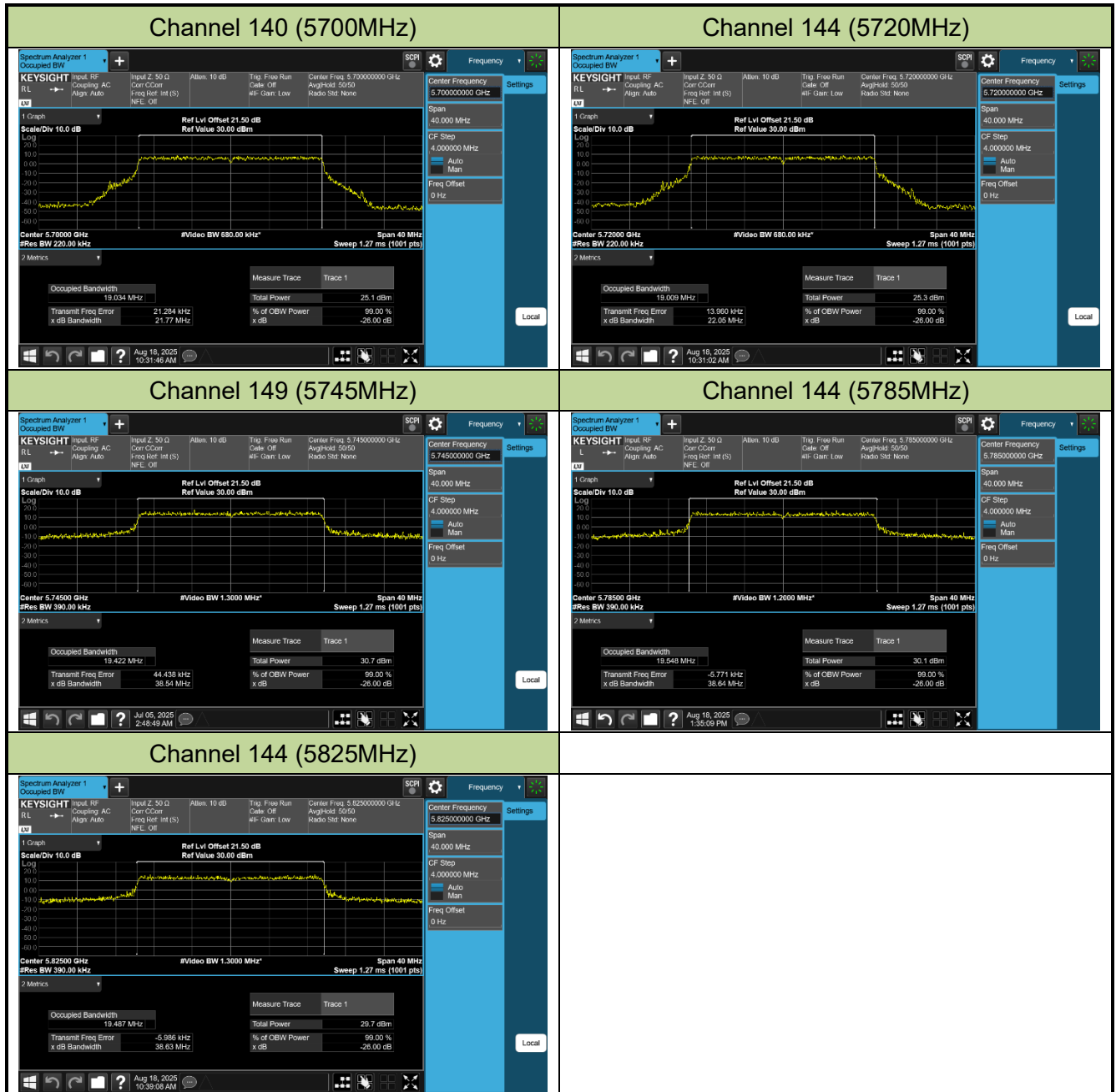


Channel 100 (5500MHz)



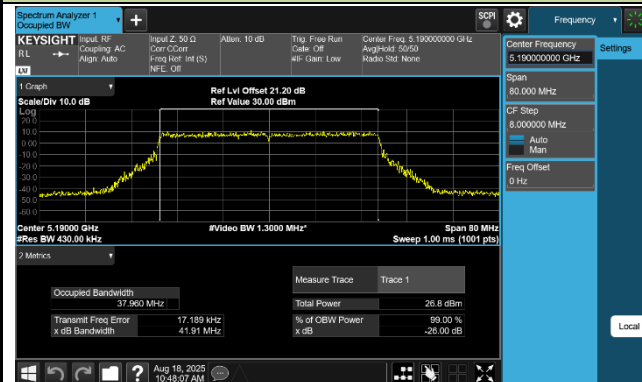
Channel 116 (5580MHz)



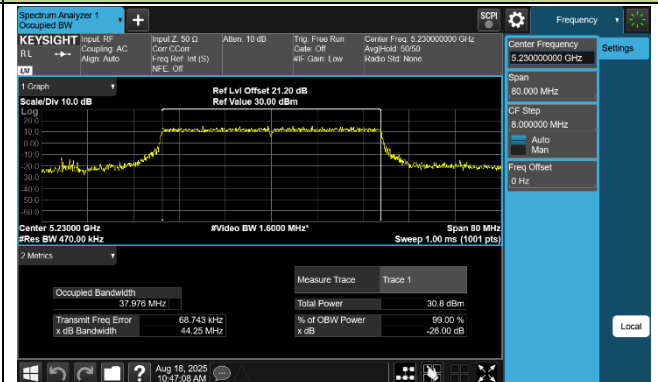


802.11be-EHT40 26dB Bandwidth & 99% Bandwidth

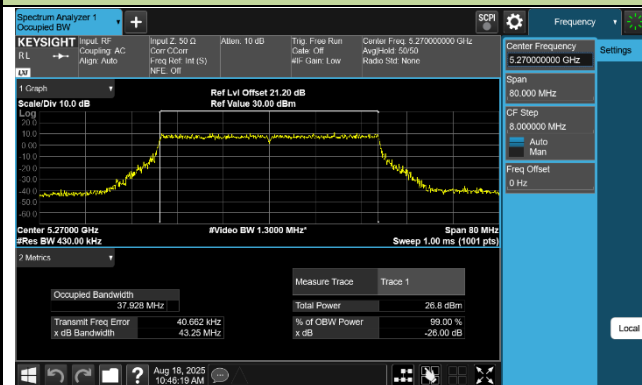
Channel 38 (5190MHz)



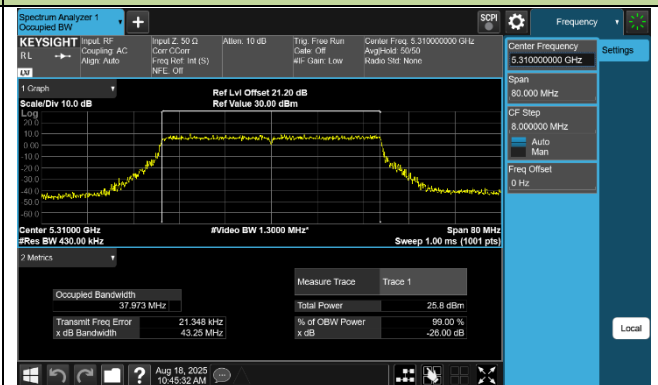
Channel 46 (5230MHz)



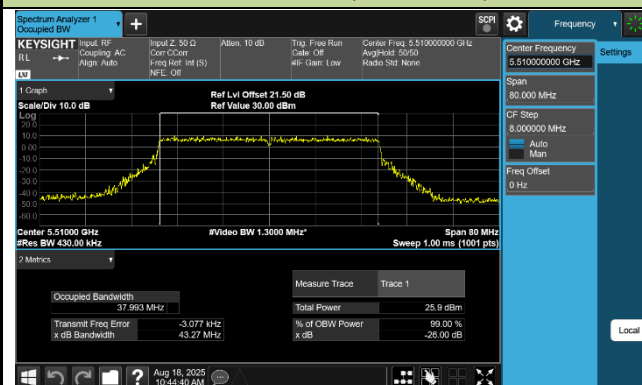
Channel 54 (5270MHz)



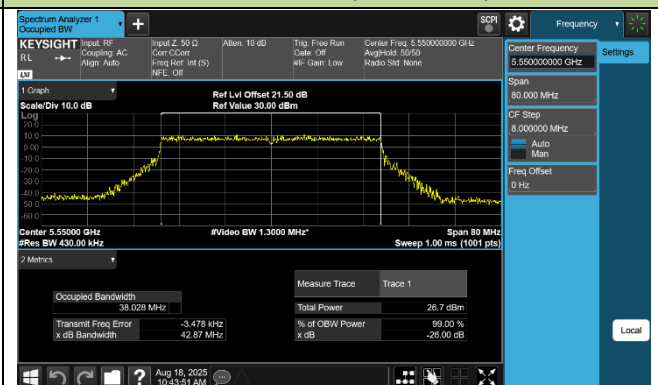
Channel 62 (5310MHz)



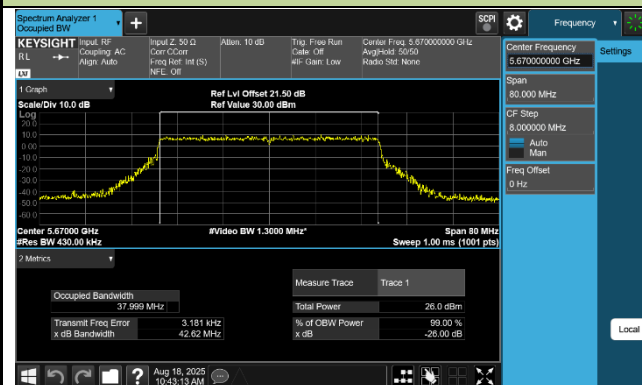
Channel 102 (5510MHz)



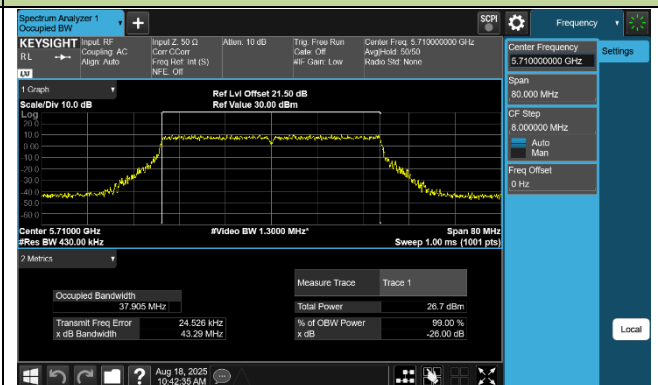
Channel 110 (5550MHz)

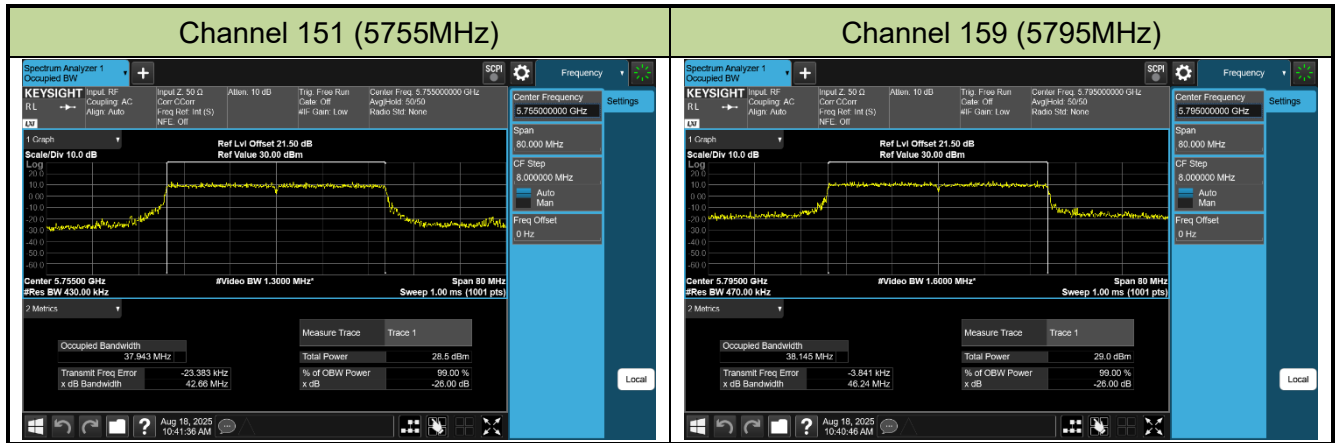


Channel 134 (5670MHz)



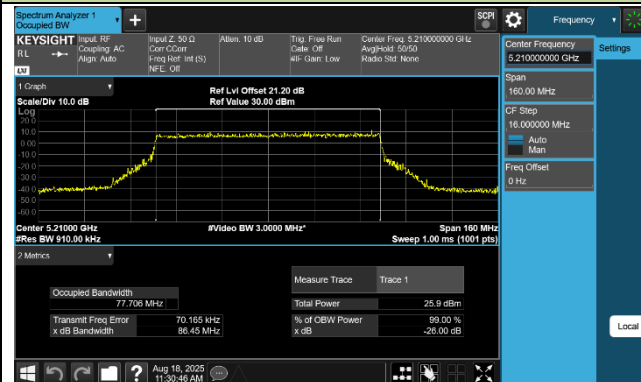
Channel 142 (5710MHz)



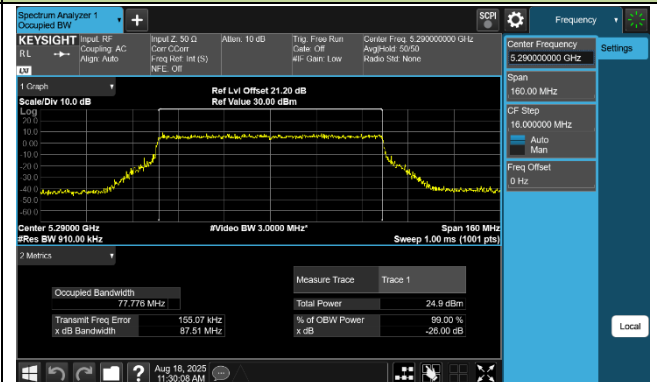


802.11be-EHT80 26dB Bandwidth & 99% Bandwidth

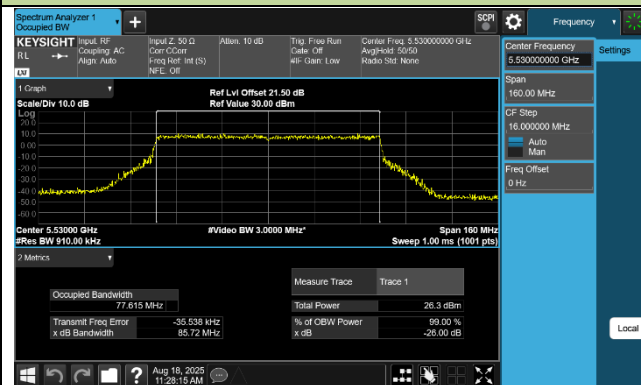
Channel 42 (5210MHz)



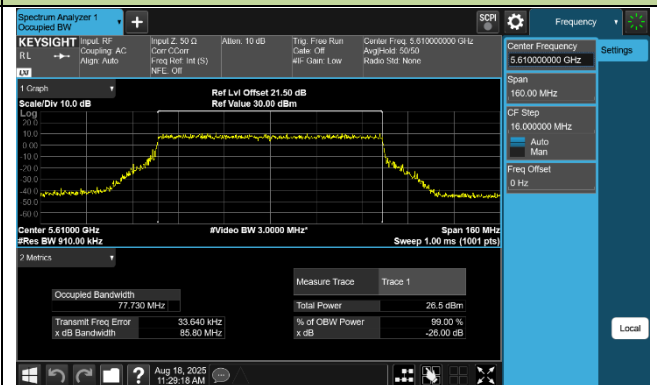
Channel 58 (5290MHz)



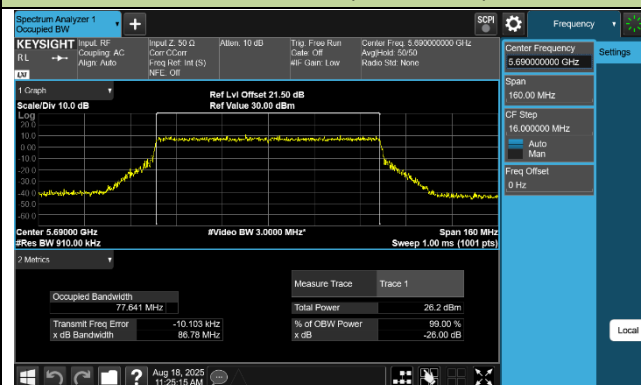
Channel 106 (5530MHz)



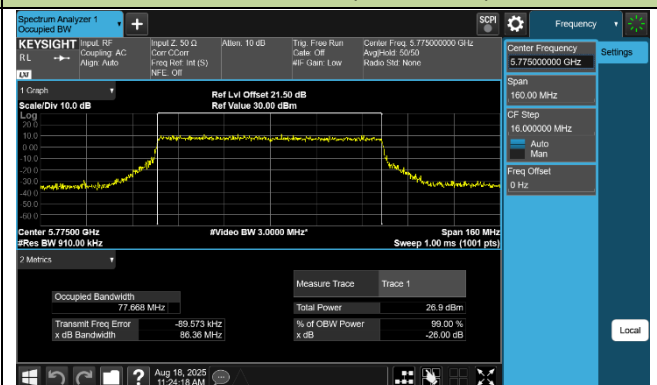
Channel 122 (5610MHz)



Channel 138 (5690MHz)

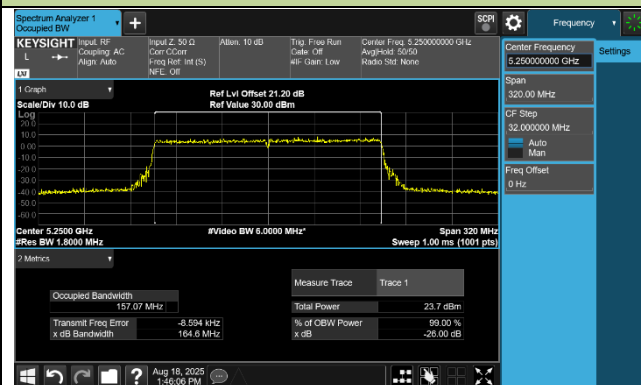


Channel 155 (5775MHz)

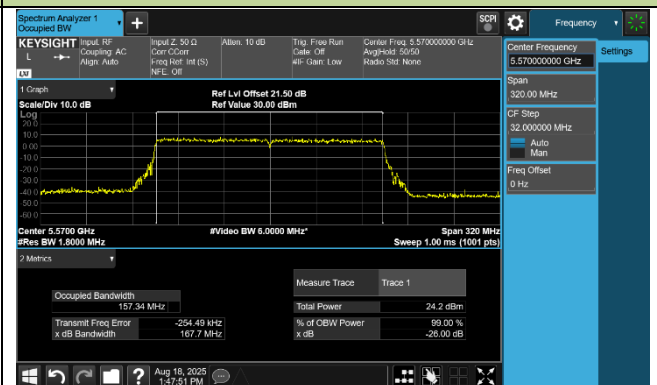


802.11be-EHT160 26dB Bandwidth & 99% Bandwidth

Channel 50 (5250MHz)

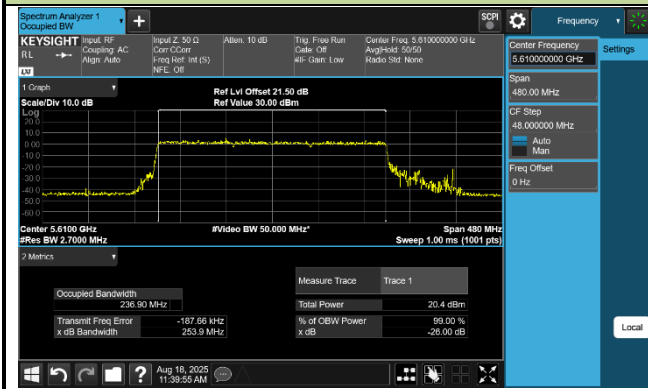


Channel 114 (5570MHz)



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.

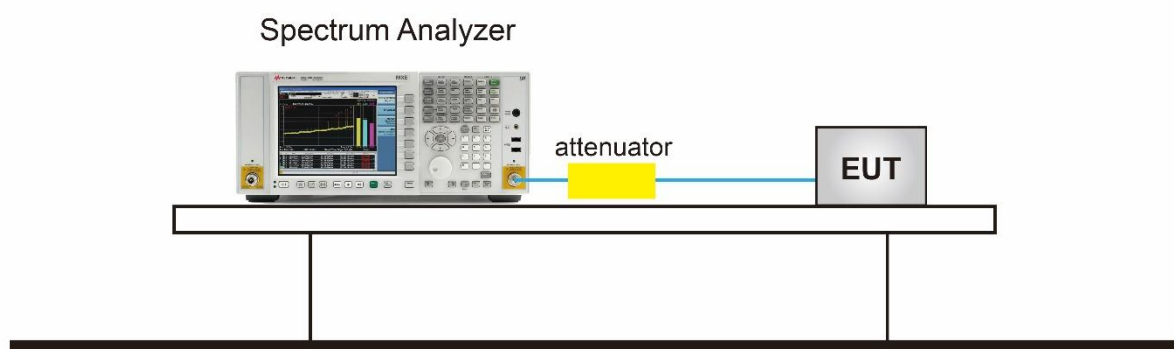
7.3.2. Test Procedure used

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



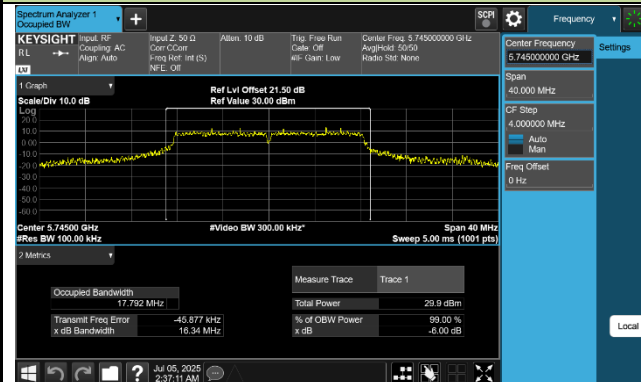
7.3.5.TestResult

Product	BE11000 Whole Home Mesh Wi-Fi 7 System with PoE	Test Engineer	Yang
Test Site	SR6	Test Date	2025/7/5

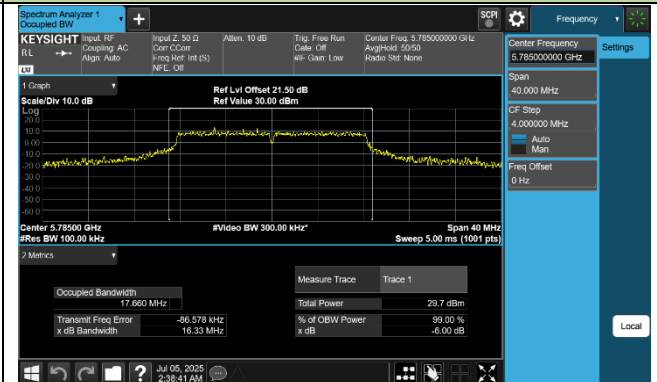
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 1						
802.11a	6Mbps	149	5745	16.340	≥ 0.5	Pass
802.11a	6Mbps	157	5785	16.330	≥ 0.5	Pass
802.11a	6Mbps	165	5825	16.340	≥ 0.5	Pass
802.11ac-VHT20	MCS0	149	5745	17.610	≥ 0.5	Pass
802.11ac-VHT20	MCS0	157	5785	17.600	≥ 0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.620	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	36.490	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	36.550	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	76.510	≥ 0.5	Pass
802.11ax-HE20	MCS0	149	5745	19.080	≥ 0.5	Pass
802.11ax-HE20	MCS0	157	5785	19.090	≥ 0.5	Pass
802.11ax-HE20	MCS0	165	5825	18.990	≥ 0.5	Pass
802.11ax-HE40	MCS0	151	5755	38.020	≥ 0.5	Pass
802.11ax-HE40	MCS0	159	5795	38.100	≥ 0.5	Pass
802.11ax-HE80	MCS0	155	5775	78.190	≥ 0.5	Pass
802.11be-EHT20	MCS0	149	5745	18.920	≥ 0.5	Pass
802.11be-EHT20	MCS0	157	5785	18.930	≥ 0.5	Pass
802.11be-EHT20	MCS0	165	5825	19.050	≥ 0.5	Pass
802.11be-EHT40	MCS0	151	5755	38.150	≥ 0.5	Pass
802.11be-EHT40	MCS0	159	5795	38.040	≥ 0.5	Pass
802.11be-EHT80	MCS0	155	5775	78.250	≥ 0.5	Pass

802.11a 6dB Bandwidth

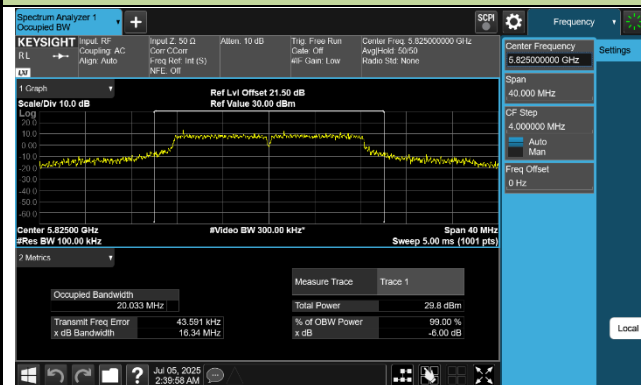
Channel 149 (5745MHz)



Channel 157 (5785MHz)

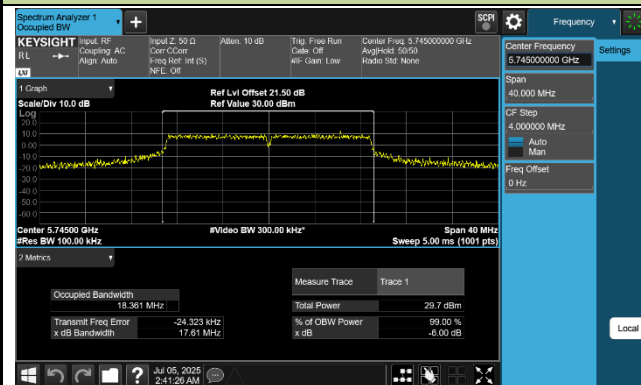


Channel 165 (5825MHz)

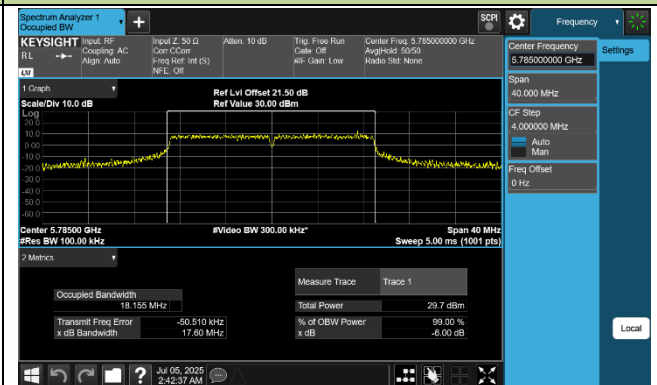


802.11ac-VHT20 6dB Bandwidth

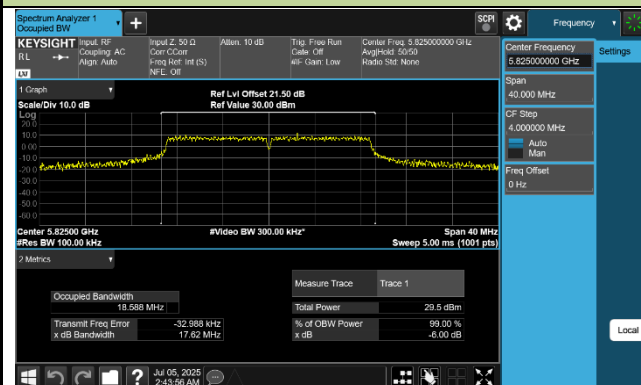
Channel 149 (5745MHz)



Channel 157 (5785MHz)

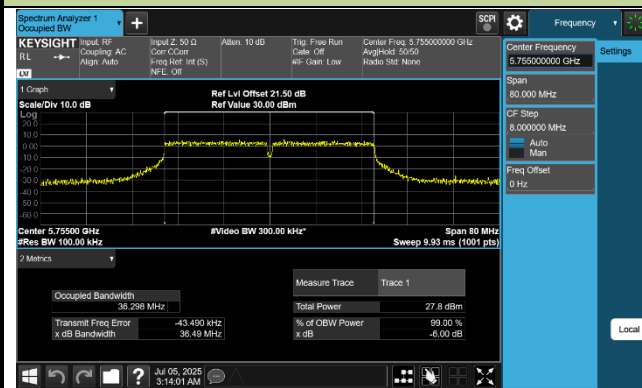


Channel 165 (5825MHz)

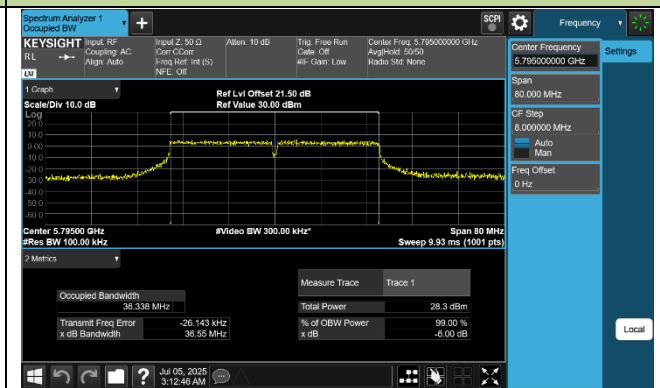


802.11ac-VHT40 6dB Bandwidth

Channel 151 (5755MHz)

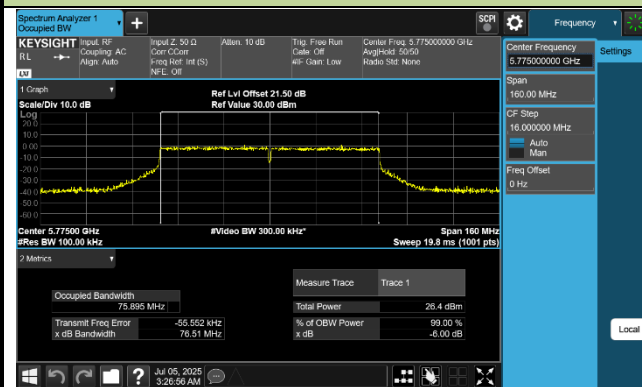


Channel 159 (5795MHz)



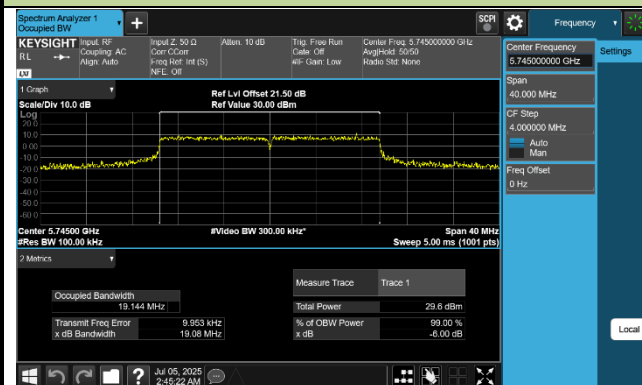
802.11ac-VHT80 6dB Bandwidth

Channel 155 (5775MHz)

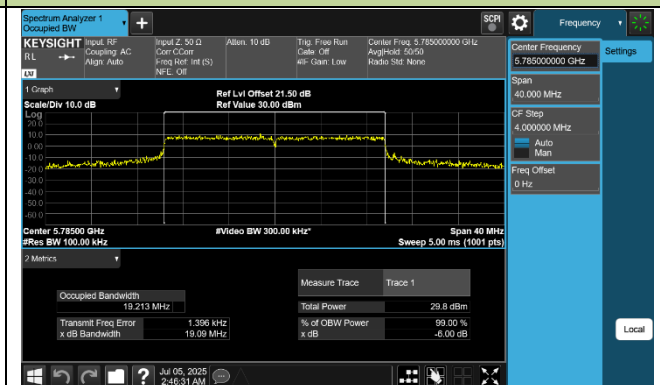


802.11ax-HE20 6dB Bandwidth

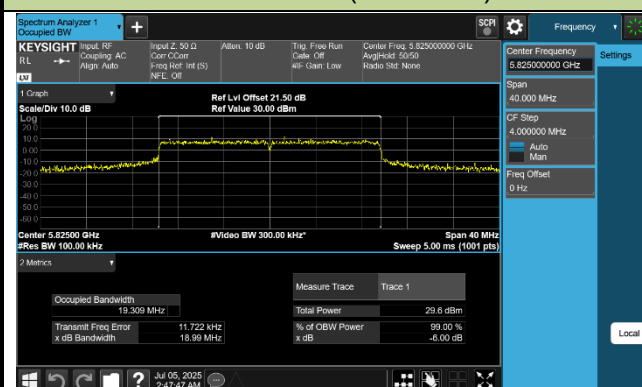
Channel 149 (5745MHz)



Channel 157 (5785MHz)

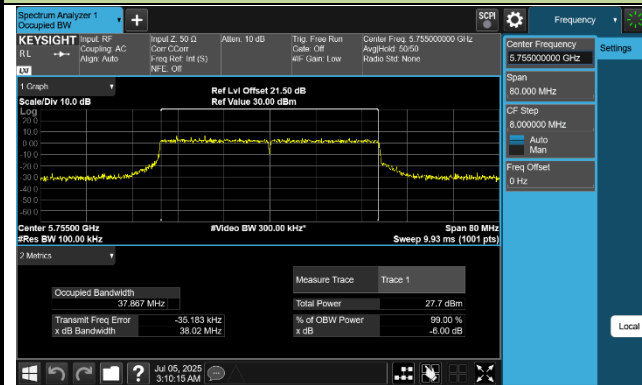


Channel 165 (5825MHz)

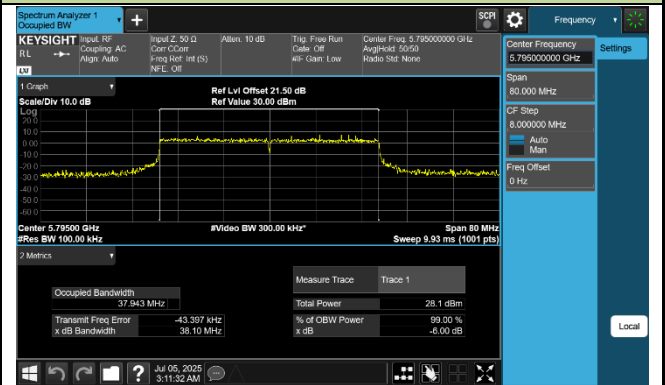


802.11ax-HE40 6dB Bandwidth

Channel 151 (5755MHz)

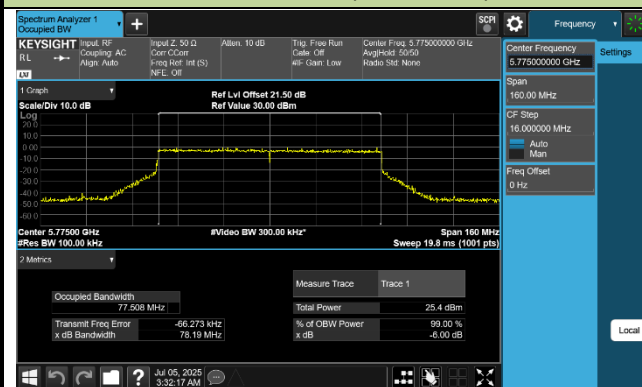


Channel 159 (5795MHz)



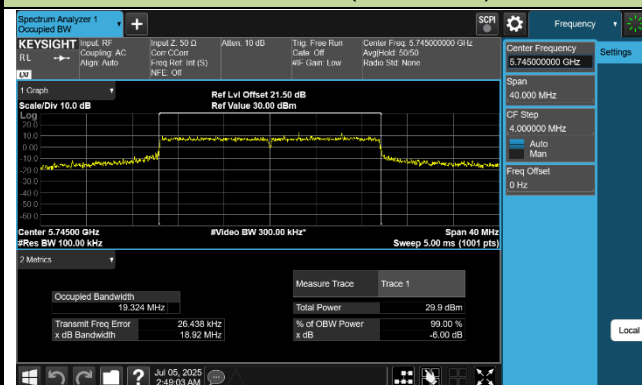
802.11ax-HE80 6dB Bandwidth

Channel 155 (5775MHz)

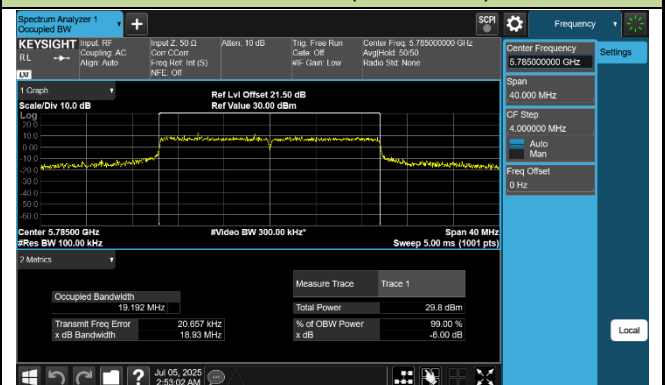


802.11be-EHT20 6dB Bandwidth

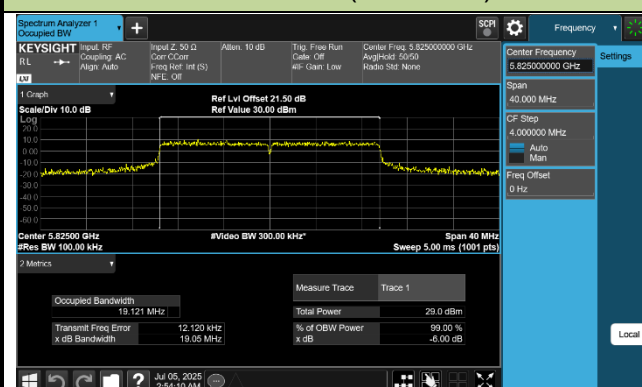
Channel 149 (5745MHz)



Channel 157 (5785MHz)

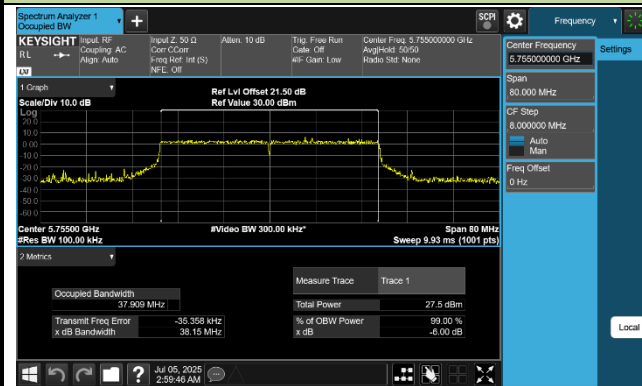


Channel 165 (5825MHz)

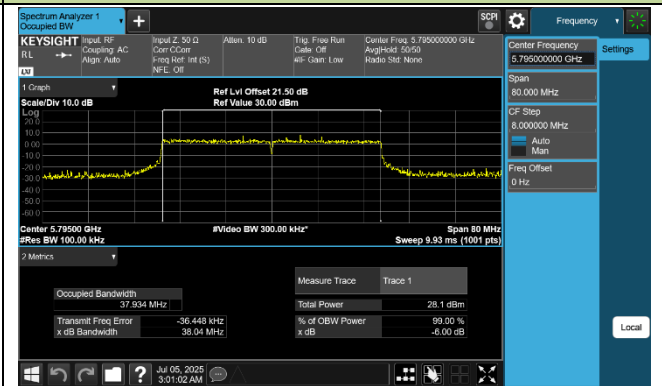


802.11be-EHT 40 6dB Bandwidth

Channel 151 (5755MHz)

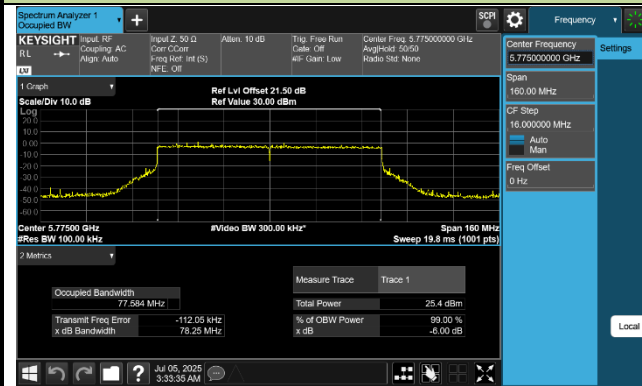


Channel 159 (5795MHz)



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.

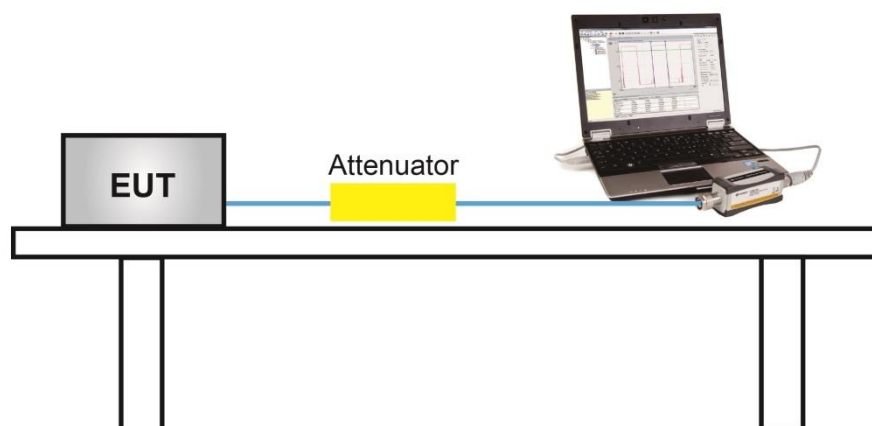
7.4.2. Test Procedure Used

KDB 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	BE11000 Whole Home Mesh Wi-Fi 7 System with PoE	Test Engineer	Yang
Test Site	SR6	Test Date	2025/6/27~2025/7/5
Test Mode	CDD Mode		

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	20.83	21.58	24.23	≤ 30.00	Pass
11a	6Mbps	40	5200	23.97	24.21	27.10	≤ 30.00	Pass
11a	6Mbps	48	5240	23.86	24.06	26.97	≤ 30.00	Pass
11a	6Mbps	52	5260	18.79	19.51	22.18	≤ 23.98	Pass
11a	6Mbps	60	5300	19.18	19.62	22.42	≤ 23.98	Pass
11a	6Mbps	64	5320	19.07	19.61	22.36	≤ 23.98	Pass
11a	6Mbps	100	5500	19.25	19.01	22.14	≤ 23.98	Pass
11a	6Mbps	116	5580	19.40	19.41	22.42	≤ 23.98	Pass
11a	6Mbps	140	5700	19.01	18.63	21.83	≤ 23.98	Pass
11a	6Mbps	144	5720	18.75	18.29	21.54	≤ 23.07	Pass
11a	6Mbps	149	5745	24.44	24.07	27.27	≤ 30.00	Pass
11a	6Mbps	157	5785	24.32	23.94	27.14	≤ 30.00	Pass
11a	6Mbps	165	5825	24.55	24.08	27.33	≤ 30.00	Pass
11ac-VHT20	MCS0	36	5180	20.90	21.47	24.20	≤ 30.00	Pass
11ac-VHT20	MCS0	40	5200	23.80	24.18	27.00	≤ 30.00	Pass
11ac-VHT20	MCS0	48	5240	24.25	24.48	27.38	≤ 30.00	Pass
11ac-VHT20	MCS0	52	5260	19.40	20.17	22.81	≤ 23.98	Pass
11ac-VHT20	MCS0	60	5300	19.73	20.24	23.00	≤ 23.98	Pass
11ac-VHT20	MCS0	64	5320	19.85	20.53	23.21	≤ 23.98	Pass
11ac-VHT20	MCS0	100	5500	19.32	18.96	22.15	≤ 23.98	Pass
11ac-VHT20	MCS0	116	5580	19.47	19.28	22.39	≤ 23.98	Pass
11ac-VHT20	MCS0	140	5700	19.07	18.62	21.86	≤ 23.98	Pass
11ac-VHT20	MCS0	144	5720	19.28	18.78	22.05	≤ 23.12	Pass
11ac-VHT20	MCS0	149	5745	24.50	24.19	27.36	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	24.41	24.09	27.26	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	24.26	23.90	27.09	≤ 30.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total AveragePower r(dBm)	Average Power Limit (dBm)	Result
11ac-VHT40	MCS0	38	5190	20.96	21.25	24.12	≤ 30.00	Pass
11ac-VHT40	MCS0	46	5230	24.26	24.46	27.37	≤ 30.00	Pass
11ac-VHT40	MCS0	54	5270	20.56	21.15	23.88	≤ 23.98	Pass
11ac-VHT40	MCS0	62	5310	19.83	20.20	23.03	≤ 23.98	Pass
11ac-VHT40	MCS0	102	5510	20.82	20.02	23.45	≤ 23.98	Pass
11ac-VHT40	MCS0	110	5550	20.79	20.56	23.69	≤ 23.98	Pass
11ac-VHT40	MCS0	134	5670	20.02	19.70	22.87	≤ 23.98	Pass
11ac-VHT40	MCS0	142	5710	20.63	20.78	23.72	≤ 23.98	Pass
11ac-VHT40	MCS0	151	5755	23.38	21.86	25.70	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	24.02	22.52	26.34	≤ 30.00	Pass
11ac-VHT80	MCS0	42	5210	20.33	20.74	23.55	≤ 30.00	Pass
11ac-VHT80	MCS0	58	5290	18.74	19.07	21.92	≤ 23.98	Pass
11ac-VHT80	MCS0	106	5530	20.50	20.07	23.30	≤ 23.98	Pass
11ac-VHT80	MCS0	122	5610	20.45	20.63	23.55	≤ 23.98	Pass
11ac-VHT80	MCS0	138	5690	20.33	20.66	23.51	≤ 23.98	Pass
11ac-VHT80	MCS0	155	5775	22.88	21.55	25.28	≤ 30.00	Pass
11ac-VHT160	MCS0	50	5250	18.12	18.35	21.25	≤ 23.98	Pass
11ac-VHT160	MCS0	114	5570	18.72	18.15	21.45	≤ 23.98	Pass
11ax-HE20	MCS0	36	5180	20.53	21.13	23.85	≤ 30.00	Pass
11ax-HE20	MCS0	40	5200	23.94	24.35	27.16	≤ 30.00	Pass
11ax-HE20	MCS0	48	5240	23.84	24.21	27.04	≤ 30.00	Pass
11ax-HE20	MCS0	52	5260	19.46	20.23	22.87	≤ 23.98	Pass
11ax-HE20	MCS0	60	5300	19.84	20.34	23.11	≤ 23.98	Pass
11ax-HE20	MCS0	64	5320	20.01	20.63	23.34	≤ 23.98	Pass
11ax-HE20	MCS0	100	5500	19.48	19.22	22.36	≤ 23.98	Pass
11ax-HE20	MCS0	116	5580	19.56	19.55	22.57	≤ 23.98	Pass
11ax-HE20	MCS0	140	5700	19.18	18.90	22.05	≤ 23.98	Pass
11ax-HE20	MCS0	144	5720	19.35	19.04	22.21	≤ 23.98	Pass
11ax-HE20	MCS0	149	5745	24.69	23.66	27.22	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	24.45	24.14	27.31	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	24.35	23.94	27.16	≤ 30.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total AveragePower r(dBm)	Average Power Limit (dBm)	Result
11ax-HE40	MCS0	38	5190	20.44	20.80	23.63	≤ 30.00	Pass
11ax-HE40	MCS0	46	5230	24.00	24.46	27.25	≤ 30.00	Pass
11ax-HE40	MCS0	54	5270	20.12	21.11	23.65	≤ 23.98	Pass
11ax-HE40	MCS0	62	5310	19.31	19.72	22.53	≤ 23.98	Pass
11ax-HE40	MCS0	102	5510	20.73	20.11	23.44	≤ 23.98	Pass
11ax-HE40	MCS0	110	5550	20.43	20.47	23.46	≤ 23.98	Pass
11ax-HE40	MCS0	134	5670	19.53	19.58	22.57	≤ 23.98	Pass
11ax-HE40	MCS0	142	5710	19.99	20.76	23.40	≤ 23.98	Pass
11ax-HE40	MCS0	151	5755	23.40	22.01	25.77	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	24.03	22.66	26.41	≤ 30.00	Pass
11ax-HE80	MCS0	42	5210	19.79	20.27	23.05	≤ 30.00	Pass
11ax-HE80	MCS0	58	5290	19.04	19.62	22.35	≤ 23.98	Pass
11ax-HE80	MCS0	106	5530	20.58	20.06	23.34	≤ 23.98	Pass
11ax-HE80	MCS0	122	5610	20.50	20.65	23.59	≤ 23.98	Pass
11ax-HE80	MCS0	138	5690	20.40	20.68	23.55	≤ 23.98	Pass
11ax-HE80	MCS0	155	5775	22.38	20.87	24.70	≤ 30.00	Pass
11ax-HE160	MCS0	50	5250	17.65	17.92	20.80	≤ 23.98	Pass
11ax-HE160	MCS0	114	5570	19.20	18.83	22.03	≤ 23.98	Pass
11be-EHT20	MCS0	36	5180	20.55	21.13	23.86	≤ 30.00	Pass
11be-EHT20	MCS0	40	5200	23.97	24.27	27.13	≤ 30.00	Pass
11be-EHT20	MCS0	48	5240	24.20	24.33	27.28	≤ 30.00	Pass
11be-EHT20	MCS0	52	5260	19.48	20.24	22.89	≤ 23.98	Pass
11be-EHT20	MCS0	60	5300	19.87	20.36	23.13	≤ 23.98	Pass
11be-EHT20	MCS0	64	5320	20.02	20.70	23.38	≤ 23.98	Pass
11be-EHT20	MCS0	100	5500	19.47	19.23	22.36	≤ 23.98	Pass
11be-EHT20	MCS0	116	5580	19.54	19.50	22.53	≤ 23.98	Pass
11be-EHT20	MCS0	140	5700	19.20	18.85	22.04	≤ 23.98	Pass
11be-EHT20	MCS0	144	5720	19.31	18.87	22.11	≤ 23.98	Pass
11be-EHT20	MCS0	149	5745	24.66	24.13	27.41	≤ 30.00	Pass
11be-EHT20	MCS0	157	5785	24.50	24.26	27.39	≤ 30.00	Pass
11be-EHT20	MCS0	165	5825	24.42	23.17	26.85	≤ 30.00	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
11be-EHT40	MCS0	38	5190	20.36	20.77	23.58	≤ 30.00	Pass
11be-EHT40	MCS0	46	5230	24.05	24.37	27.22	≤ 30.00	Pass
11be-EHT40	MCS0	54	5270	20.44	21.01	23.74	≤ 23.98	Pass
11be-EHT40	MCS0	62	5310	20.13	20.46	23.31	≤ 23.98	Pass
11be-EHT40	MCS0	102	5510	20.67	20.03	23.37	≤ 23.98	Pass
11be-EHT40	MCS0	110	5550	20.73	20.40	23.58	≤ 23.98	Pass
11be-EHT40	MCS0	134	5670	19.91	19.84	22.89	≤ 23.98	Pass
11be-EHT40	MCS0	142	5710	20.65	20.71	23.69	≤ 23.98	Pass
11be-EHT40	MCS0	151	5755	19.90	19.77	22.85	≤ 30.00	Pass
11be-EHT40	MCS0	159	5795	23.97	22.59	26.34	≤ 30.00	Pass
11be-EHT80	MCS0	42	5210	19.85	20.32	23.10	≤ 30.00	Pass
11be-EHT80	MCS0	58	5290	19.57	20.11	22.86	≤ 23.98	Pass
11be-EHT80	MCS0	106	5530	20.99	20.63	23.82	≤ 23.98	Pass
11be-EHT80	MCS0	122	5610	20.53	20.63	23.59	≤ 23.98	Pass
11be-EHT80	MCS0	138	5690	20.44	20.55	23.51	≤ 23.98	Pass
11be-EHT80	MCS0	155	5775	22.44	20.96	24.77	≤ 30.00	Pass
11be-EHT160	MCS0	50	5250	18.14	18.53	21.35	≤ 23.98	Pass
11be-EHT160	MCS0	114	5570	19.48	19.04	22.28	≤ 23.98	Pass
11be-EHT240	MCS0	130	5650	15.66	16.53	19.13	≤ 23.98	Pass

Note 1:

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

Note 2:

For 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.

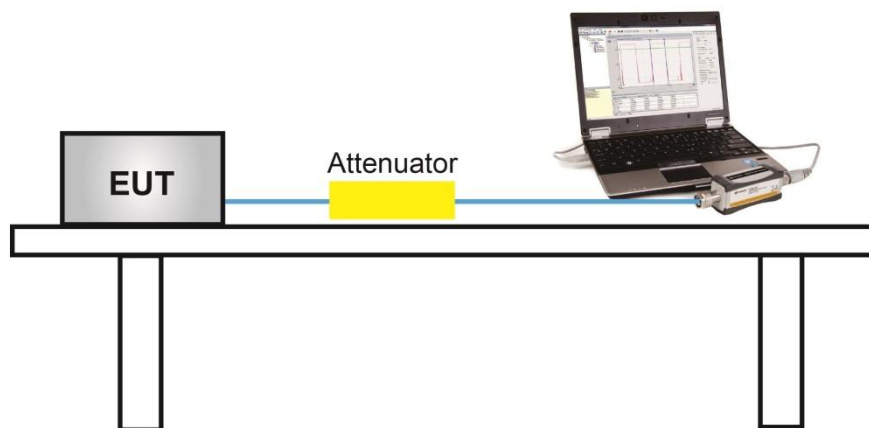
7.5.2. Test Procedure Used

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.

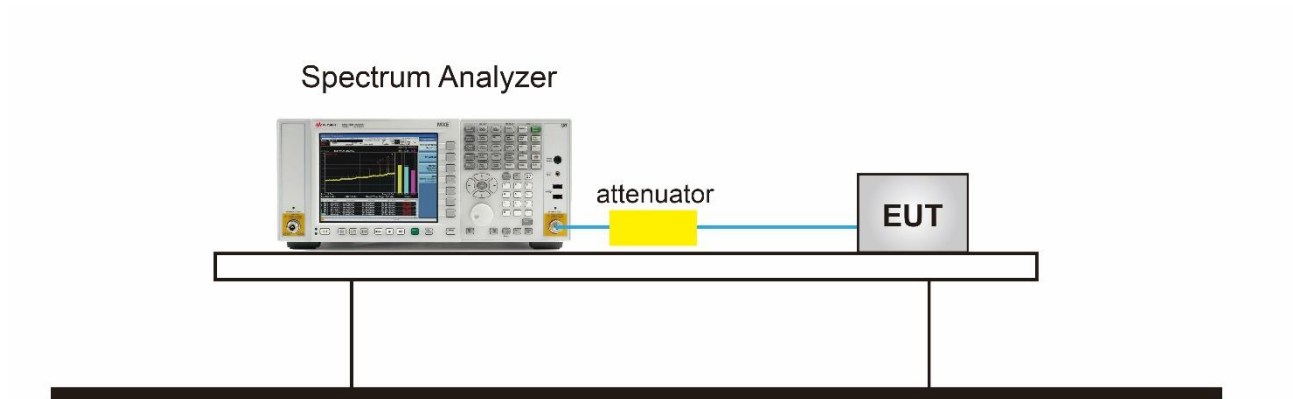
7.6.2. Test Procedure Used

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	BE11000 Whole Home Mesh Wi-Fi 7 System with PoE	Test Engineer	Yang
Test Site	SR6	Test Date	2025/6/27~2025/7/22
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)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11a	6Mbps	36	5180	10.282	10.769	99.45%	13.567	≤ 17.00	Pass
11a	6Mbps	40	5200	13.391	14.031	99.45%	16.757	≤ 17.00	Pass
11a	6Mbps	48	5240	13.407	14.175	99.45%	16.842	≤ 17.00	Pass
11a	6Mbps	52	5260	7.192	7.884	99.45%	10.586	≤ 11.00	Pass
11a	6Mbps	60	5300	6.855	8.011	99.45%	10.506	≤ 11.00	Pass
11a	6Mbps	64	5320	7.296	8.022	99.45%	10.708	≤ 11.00	Pass
11a	6Mbps	100	5500	7.182	7.397	99.45%	10.325	≤ 10.46	Pass
11a	6Mbps	116	5580	7.163	7.478	99.45%	10.358	≤ 10.46	Pass
11a	6Mbps	140	5700	7.352	7.488	99.45%	10.455	≤ 10.46	Pass
11a	6Mbps	144	5720	7.024	7.499	99.45%	10.302	≤ 10.46	Pass
11ac-VHT20	MCS0	36	5180	9.789	10.478	98.36%	13.229	≤ 17.00	Pass
11ac-VHT20	MCS0	40	5200	13.063	13.560	98.36%	16.401	≤ 17.00	Pass
11ac-VHT20	MCS0	48	5240	13.677	14.119	98.36%	16.986	≤ 17.00	Pass
11ac-VHT20	MCS0	52	5260	7.258	7.812	98.36%	10.626	≤ 11.00	Pass
11ac-VHT20	MCS0	60	5300	7.276	8.093	98.36%	10.786	≤ 11.00	Pass
11ac-VHT20	MCS0	64	5320	7.430	8.174	98.36%	10.900	≤ 11.00	Pass
11ac-VHT20	MCS0	100	5500	7.227	7.113	98.36%	10.252	≤ 10.46	Pass
11ac-VHT20	MCS0	116	5580	7.182	7.333	98.36%	10.340	≤ 10.46	Pass
11ac-VHT20	MCS0	140	5700	6.974	7.478	98.36%	10.315	≤ 10.46	Pass
11ac-VHT20	MCS0	144	5720	7.111	7.535	98.36%	10.410	≤ 10.46	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	6.904	7.515	96.05%	10.406	≤ 17.00	Pass
11ac-VHT40	MCS0	46	5230	10.708	11.082	96.05%	14.084	≤ 17.00	Pass
11ac-VHT40	MCS0	54	5270	7.105	8.191	96.05%	10.867	≤ 11.00	Pass
11ac-VHT40	MCS0	62	5310	5.481	6.508	96.05%	9.210	≤ 11.00	Pass
11ac-VHT40	MCS0	102	5510	6.295	6.591	96.05%	9.631	≤ 10.46	Pass
11ac-VHT40	MCS0	110	5550	7.042	7.134	96.05%	10.274	≤ 10.46	Pass
11ac-VHT40	MCS0	134	5670	6.055	6.176	96.05%	9.301	≤ 10.46	Pass
11ac-VHT40	MCS0	142	5710	6.949	7.456	96.05%	10.395	≤ 10.46	Pass
11ac-VHT80	MCS0	42	5210	3.029	3.851	96.42%	6.628	≤ 17.00	Pass
11ac-VHT80	MCS0	58	5290	1.528	2.219	96.42%	5.056	≤ 11.00	Pass
11ac-VHT80	MCS0	106	5530	3.031	3.309	96.42%	6.341	≤ 10.46	Pass
11ac-VHT80	MCS0	122	5610	3.716	3.875	96.42%	6.965	≤ 10.46	Pass
11ac-VHT80	MCS0	138	5690	3.418	4.140	96.42%	6.963	≤ 10.46	Pass
11ac-VHT160	MCS0	50	5250	-1.981	-0.393	96.95%	2.030	≤ 11.00	Pass
11ac-VHT160	MCS0	114	5570	-1.309	-1.214	96.95%	1.884	≤ 10.46	Pass
11ax-HE20	MCS0	36	5180	9.414	9.615	98.01%	12.613	≤ 17.00	Pass
11ax-HE20	MCS0	40	5200	12.900	13.702	98.01%	16.417	≤ 17.00	Pass
11ax-HE20	MCS0	48	5240	12.924	13.664	98.01%	16.407	≤ 17.00	Pass
11ax-HE20	MCS0	52	5260	7.447	8.050	98.01%	10.857	≤ 11.00	Pass
11ax-HE20	MCS0	60	5300	7.172	8.068	98.01%	10.741	≤ 11.00	Pass
11ax-HE20	MCS0	64	5320	7.125	8.287	98.01%	10.842	≤ 11.00	Pass
11ax-HE20	MCS0	100	5500	6.869	7.293	98.01%	10.184	≤ 10.46	Pass
11ax-HE20	MCS0	116	5580	7.120	7.434	98.01%	10.377	≤ 10.46	Pass
11ax-HE20	MCS0	140	5700	6.985	7.363	98.01%	10.276	≤ 10.46	Pass
11ax-HE20	MCS0	144	5720	6.964	7.702	98.01%	10.446	≤ 10.46	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	6.376	7.108	99.21%	9.802	≤ 17.00	Pass
11ax-HE40	MCS0	46	5230	10.504	11.002	99.21%	13.805	≤ 17.00	Pass
11ax-HE40	MCS0	54	5270	5.922	6.333	99.21%	9.177	≤ 11.00	Pass
11ax-HE40	MCS0	62	5310	4.727	6.125	99.21%	8.527	≤ 11.00	Pass
11ax-HE40	MCS0	102	5510	6.476	6.400	99.21%	9.483	≤ 10.46	Pass
11ax-HE40	MCS0	110	5550	6.938	6.165	99.21%	9.613	≤ 10.46	Pass
11ax-HE40	MCS0	134	5670	5.563	6.204	99.21%	8.940	≤ 10.46	Pass
11ax-HE40	MCS0	142	5710	6.849	7.216	99.21%	10.081	≤ 10.46	Pass
11ax-HE80	MCS0	42	5210	2.370	3.658	96.23%	6.239	≤ 17.00	Pass
11ax-HE80	MCS0	58	5290	1.520	2.671	96.23%	5.311	≤ 11.00	Pass
11ax-HE80	MCS0	106	5530	2.953	3.100	96.23%	6.204	≤ 10.46	Pass
11ax-HE80	MCS0	122	5610	3.748	3.914	96.23%	7.009	≤ 10.46	Pass
11ax-HE80	MCS0	122	5690	3.398	3.853	96.23%	6.809	≤ 10.46	Pass
11ax-HE160	MCS0	50	5250	-2.558	-1.284	98.02%	1.223	≤ 11.00	Pass
11ax-HE160	MCS0	114	5570	-0.761	-0.443	98.02%	2.498	≤ 10.46	Pass
11be-EHT20	MCS0	36	5180	9.311	9.786	98.91%	12.613	≤ 17.00	Pass
11be-EHT20	MCS0	40	5200	12.734	13.552	98.91%	16.220	≤ 17.00	Pass
11be-EHT20	MCS0	48	5240	12.958	13.497	98.91%	16.294	≤ 17.00	Pass
11be-EHT20	MCS0	52	5260	7.245	8.047	98.91%	10.722	≤ 11.00	Pass
11be-EHT20	MCS0	60	5300	7.086	8.144	98.91%	10.705	≤ 11.00	Pass
11be-EHT20	MCS0	64	5320	7.255	8.327	98.91%	10.882	≤ 11.00	Pass
11be-EHT20	MCS0	100	5500	6.875	7.124	98.91%	10.059	≤ 10.46	Pass
11be-EHT20	MCS0	116	5580	7.132	7.147	98.91%	10.197	≤ 10.46	Pass
11be-EHT20	MCS0	140	5700	7.084	7.534	98.91%	10.373	≤ 10.46	Pass
11be-EHT20	MCS0	144	5720	7.142	7.466	98.91%	10.365	≤ 10.46	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
11be-EHT40	MCS0	38	5190	6.578	6.664	97.31%	9.750	≤ 17.00	Pass
11be-EHT40	MCS0	46	5230	10.313	11.127	97.31%	13.868	≤ 17.00	Pass
11be-EHT40	MCS0	54	5270	6.853	7.773	97.31%	10.466	≤ 11.00	Pass
11be-EHT40	MCS0	62	5310	5.675	6.833	97.31%	9.421	≤ 11.00	Pass
11be-EHT40	MCS0	102	5510	6.154	6.229	97.31%	9.320	≤ 10.46	Pass
11be-EHT40	MCS0	110	5550	6.646	6.677	97.31%	9.790	≤ 10.46	Pass
11be-EHT40	MCS0	134	5670	5.732	6.239	97.31%	9.122	≤ 10.46	Pass
11be-EHT40	MCS0	142	5710	6.789	7.583	97.31%	10.333	≤ 10.46	Pass
11be-EHT80	MCS0	42	5210	2.616	3.549	96.07%	6.292	≤ 17.00	Pass
11be-EHT80	MCS0	58	5290	2.186	3.386	96.07%	6.012	≤ 11.00	Pass
11be-EHT80	MCS0	106	5530	3.614	3.773	96.07%	6.879	≤ 10.46	Pass
11be-EHT80	MCS0	122	5610	3.708	4.049	96.07%	7.066	≤ 10.46	Pass
11be-EHT80	MCS0	138	5690	3.525	4.025	96.07%	6.967	≤ 10.46	Pass
11be-EHT160	MCS0	50	5250	-1.950	-0.505	96.96%	1.977	≤ 11.00	Pass
11be-EHT160	MCS0	114	5570	-0.755	0.145	96.96%	2.863	≤ 10.46	Pass
11be-EHT240	MCS0	130	5650	-7.041	-5.998	98.38%	-3.407	≤ 10.46	Pass

Note 1:

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

Note 2:

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

For 5250 - 5350MHz Band: PSD Limit (dBm/MHz) = 11dBm/MHz.

For 5470 - 5725MHz Band: PSD Limit (dBm/MHz) = 11 - (6.54 - 6) = 10.46dBm/MHz.

Product	BE11000 Whole Home Mesh Wi-Fi 7 System with PoE	Test Engineer	Yang
Test Site	SR6	Test Date	2025/6/27~2025/7/7
Test Item	Power Spectral Density (U-NII-3) CDD Mode		

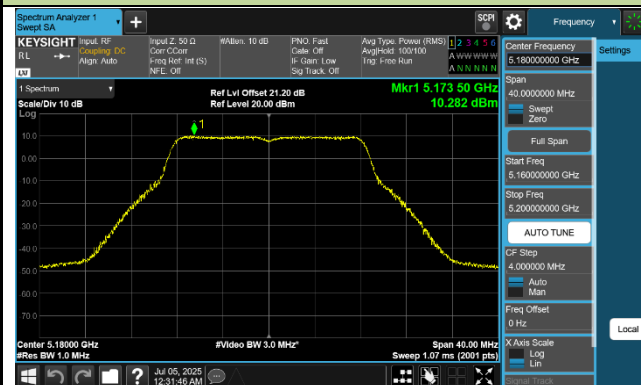
Test Mode	Data Rate/MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/510KHz)	Ant 1 PSD (dBm/510KHz)	Duty Cycle (%)	Total PSD(dBm/510kHz)	Limit (dBm/500kHz)	Result
11a	6Mbps	149	5745	11.364	11.495	99.45%	14.464	≤ 30.00	Pass
11a	6Mbps	157	5785	11.346	11.292	99.45%	14.353	≤ 30.00	Pass
11a	6Mbps	165	5825	11.665	11.364	99.45%	14.551	≤ 30.00	Pass
11ac-VHT20	MCS0	149	5745	11.088	10.987	98.36%	14.120	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	11.509	10.875	98.36%	14.286	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	10.870	10.427	98.36%	13.736	≤ 30.00	Pass
11ac-VHT40	MCS0	151	5755	6.484	6.372	96.05%	9.614	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	7.210	7.092	96.05%	10.337	≤ 30.00	Pass
11ac-VHT80	MCS0	155	5775	2.988	2.673	96.42%	6.002	≤ 30.00	Pass
11ax-HE20	MCS0	149	5745	10.759	10.786	98.01%	13.870	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	11.009	10.846	98.01%	14.026	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	10.911	10.516	98.01%	13.816	≤ 30.00	Pass
11ax-HE40	MCS0	151	5755	6.861	6.109	99.21%	9.546	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	7.018	6.809	99.21%	9.960	≤ 30.00	Pass
11ax-HE80	MCS0	155	5775	2.462	2.043	96.23%	5.435	≤ 30.00	Pass
11be-EHT20	MCS0	149	5745	10.936	10.805	98.91%	13.929	≤ 30.00	Pass
11be-EHT20	MCS0	157	5785	10.901	10.705	98.91%	13.862	≤ 30.00	Pass
11be-EHT20	MCS0	165	5825	10.521	10.126	98.91%	13.386	≤ 30.00	Pass
11be-EHT40	MCS0	151	5755	6.282	6.209	97.31%	9.374	≤ 30.00	Pass
11be-EHT40	MCS0	159	5795	7.028	6.724	97.31%	10.007	≤ 30.00	Pass
11be-EHT80	MCS0	155	5775	2.195	2.151	96.07%	5.357	≤ 30.00	Pass

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

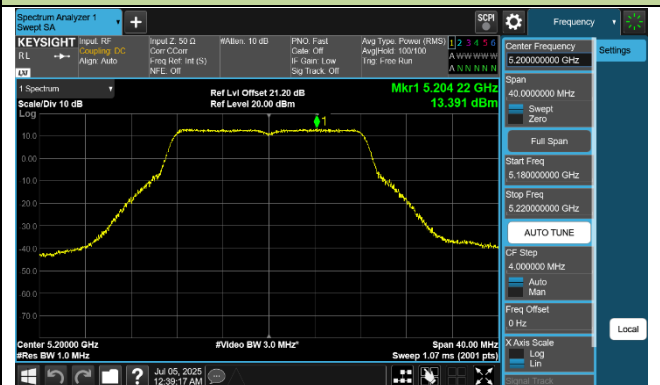
Note 2: PSD Limit (dBm/500kHz) = 30(dBm/500kHz).

802.11a Power Spectral Density - Ant 0

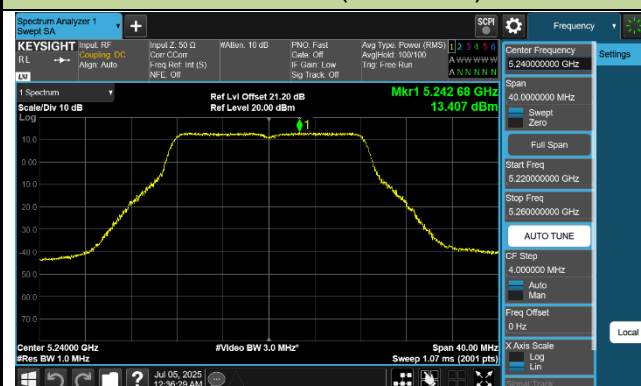
Channel 36 (5180MHz)



Channel 40 (5200MHz)



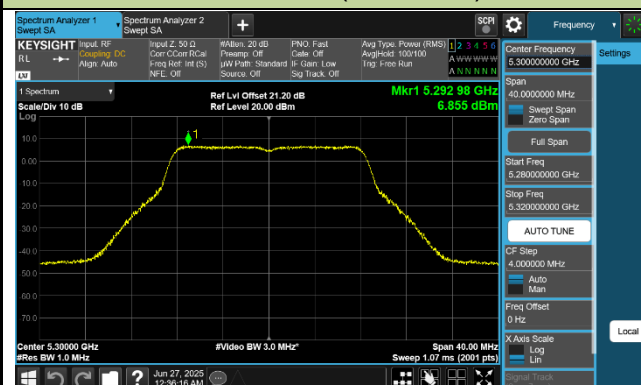
Channel 48 (5240MHz)



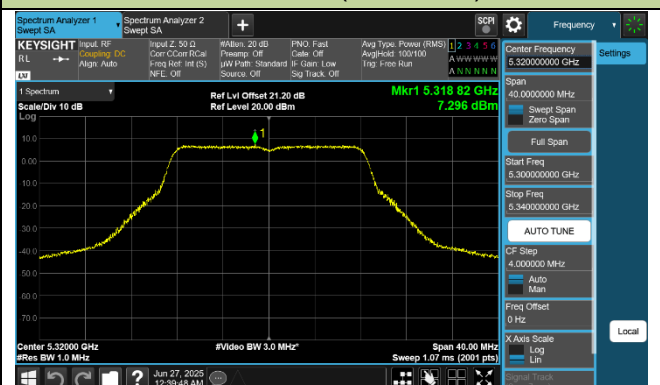
Channel 52 (5260MHz)



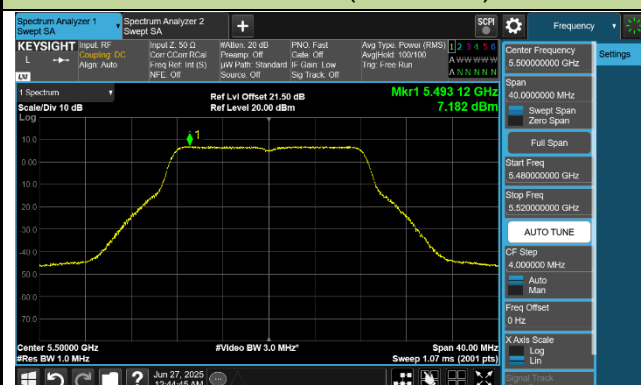
Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)

