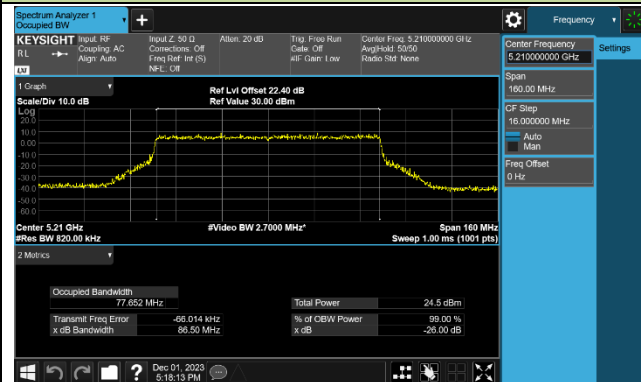
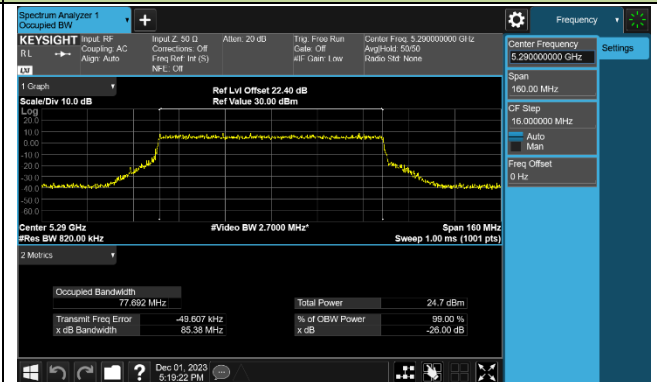


802.11ax-HE80 26dB Bandwidth & 99% Bandwidth

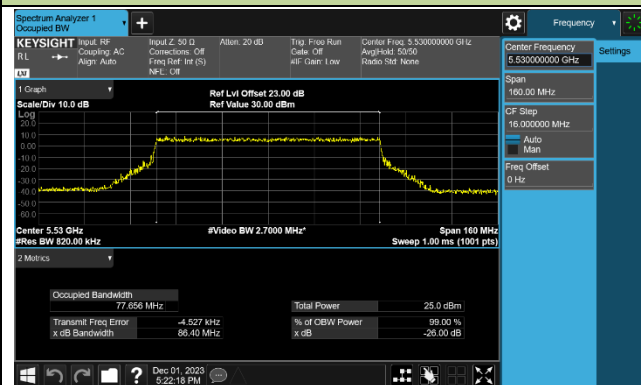
Channel 42 (5210MHz)



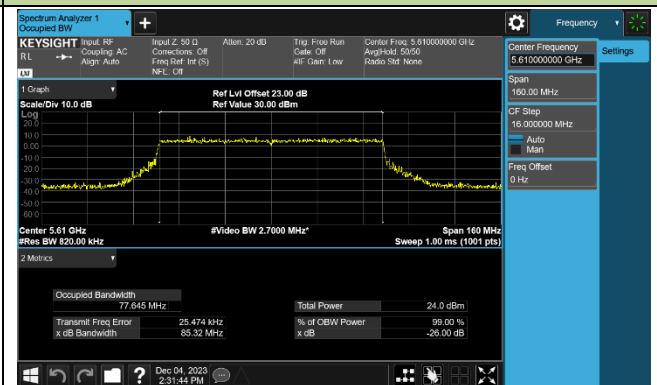
Channel 58 (5290MHz)



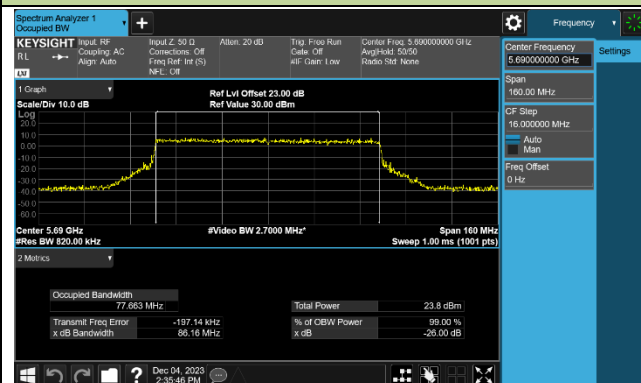
Channel 106 (5530MHz)



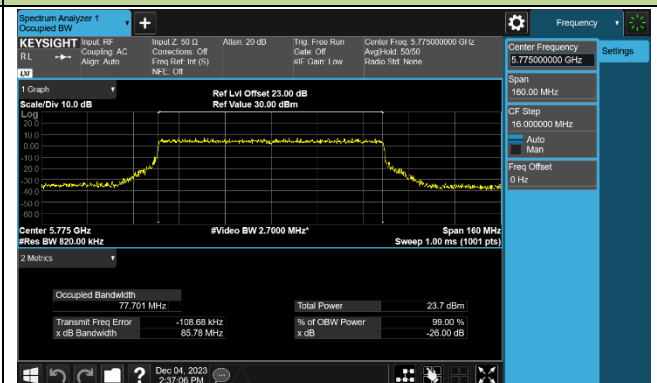
Channel 122 (5610MHz)



Channel 138 (5690MHz)

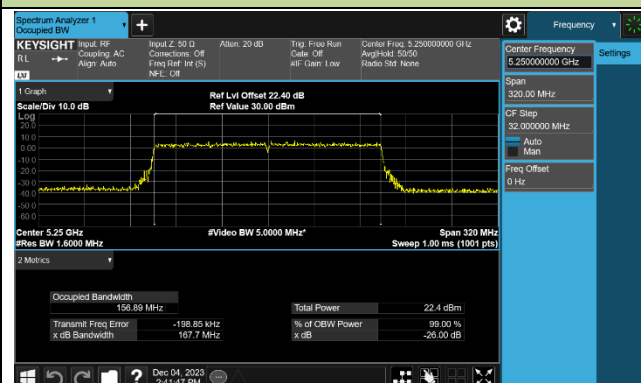


Channel 155 (5775MHz)

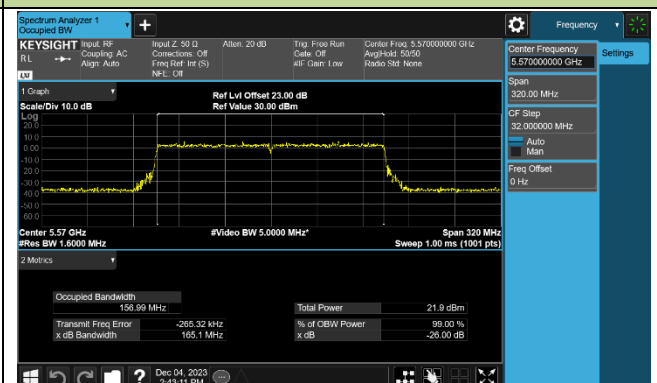


802.11ax-HE160 26dB Bandwidth & 99% Bandwidth

Channel 50 (5250MHz)

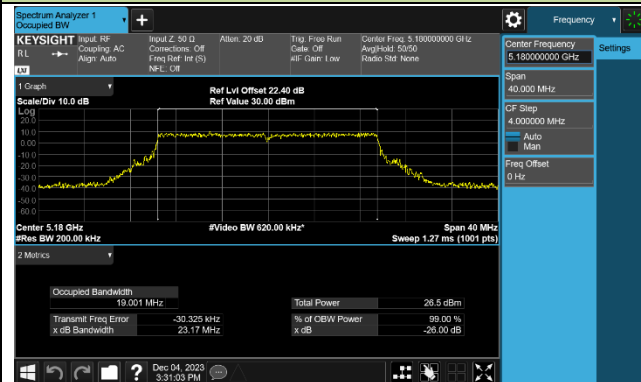


Channel 114 (5570MHz)

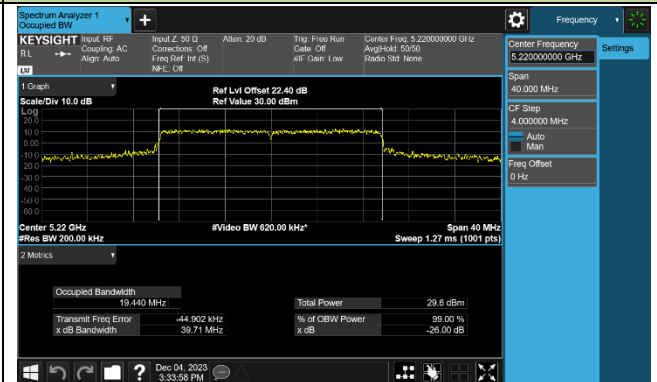


802.11be-EHT20 26dB Bandwidth & 99% Bandwidth

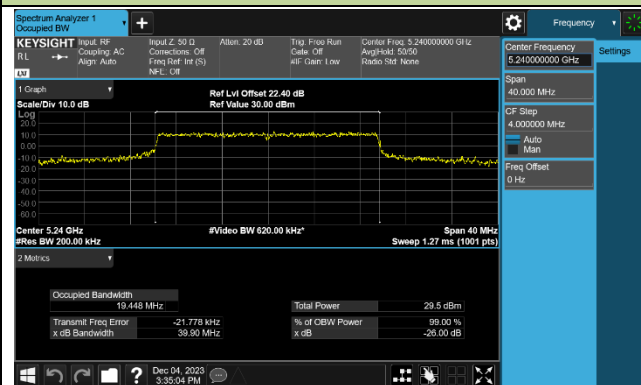
Channel 36 (5180MHz)



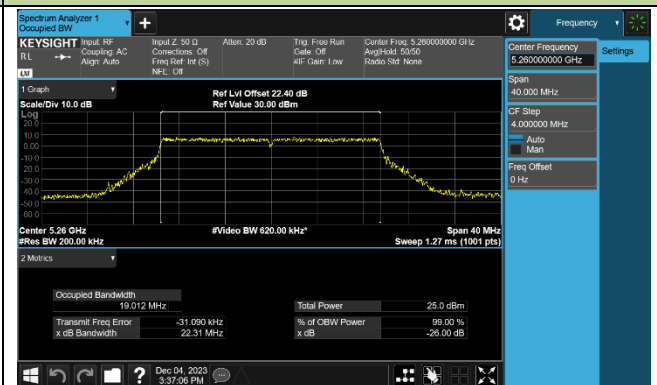
Channel 44 (5220MHz)



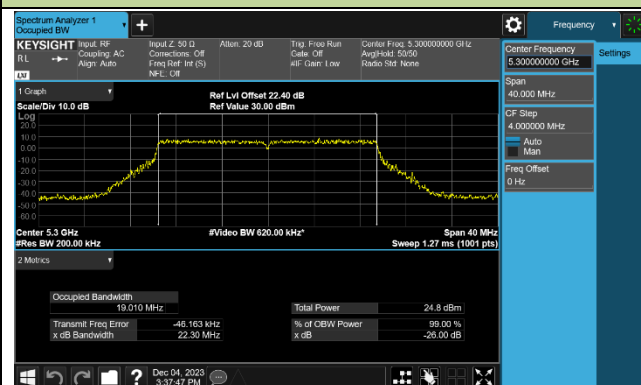
Channel 48 (5240MHz)



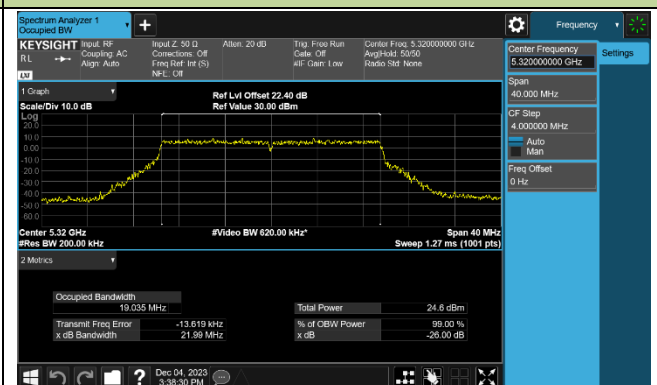
Channel 52 (5260MHz)



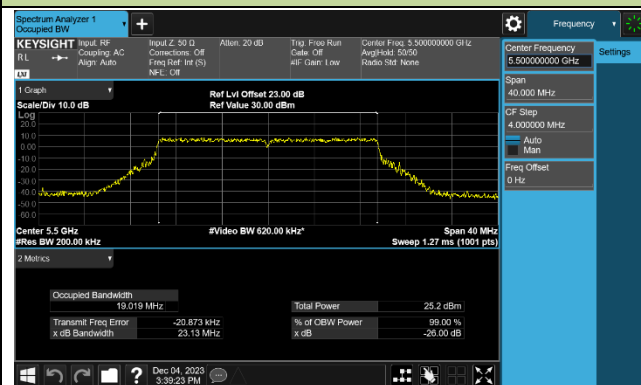
Channel 60 (5300MHz)



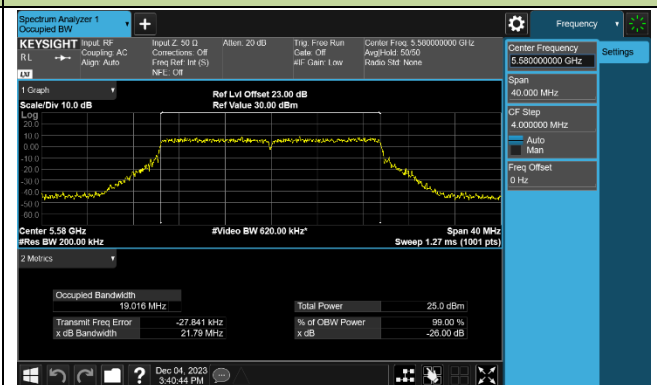
Channel 64 (5320MHz)

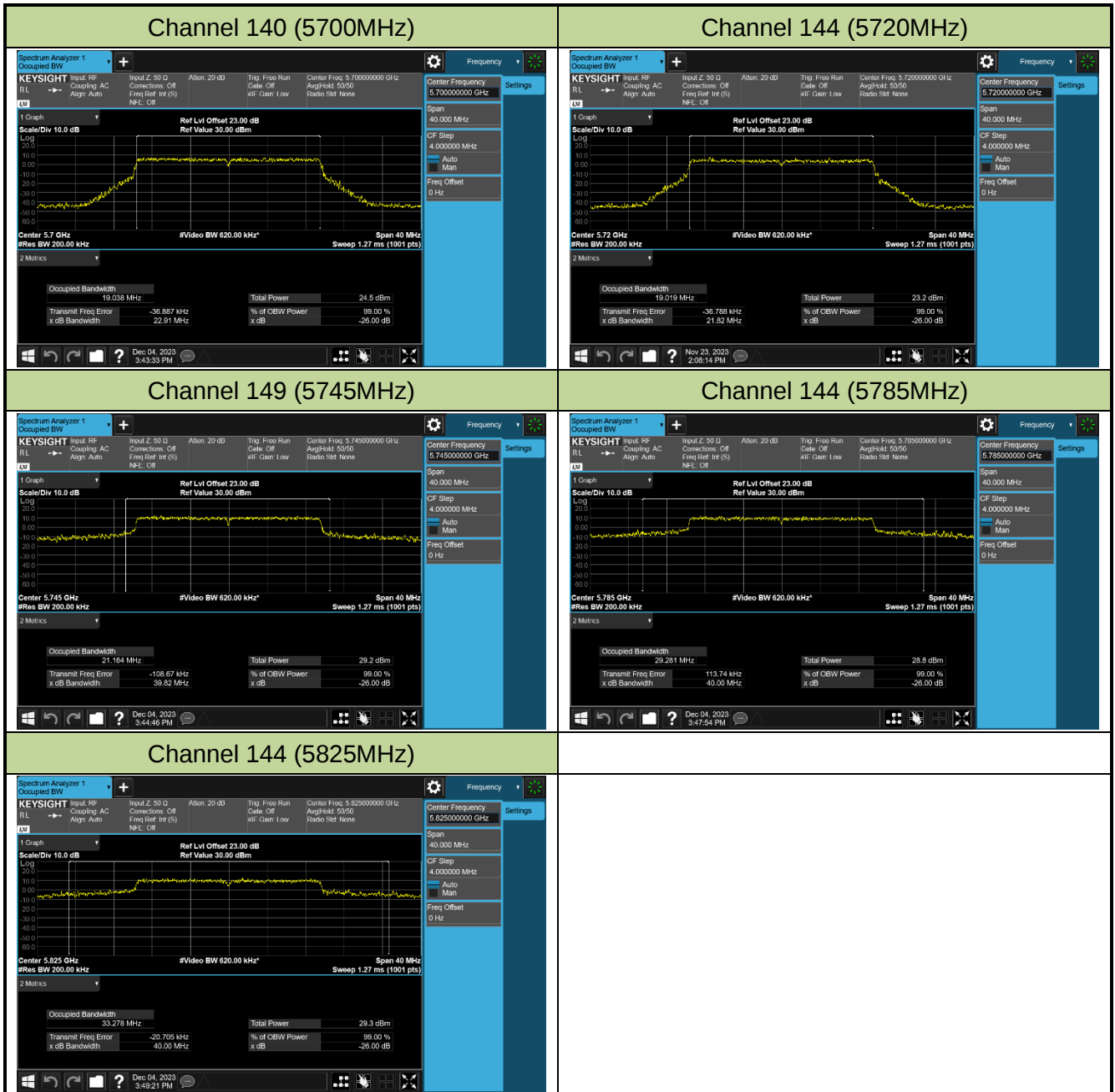


Channel 100 (5500MHz)



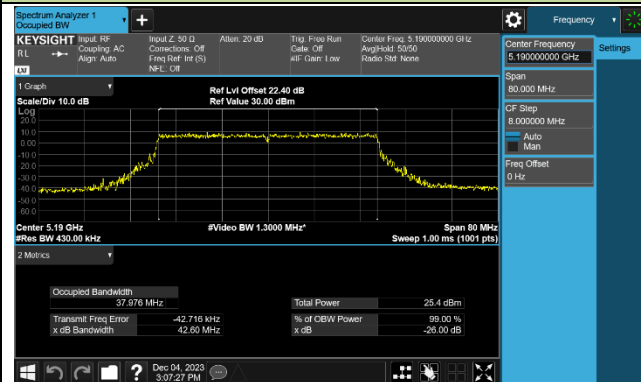
Channel 116 (5580MHz)



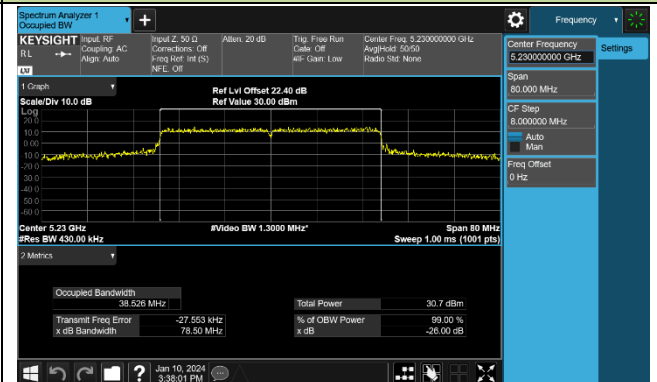


802.11be-EHT40 26dB Bandwidth & 99% Bandwidth

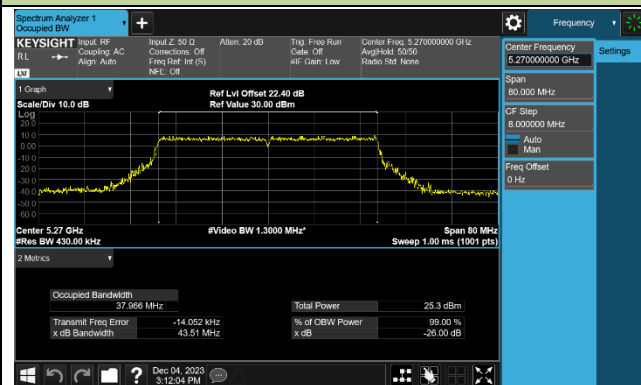
Channel 38 (5190MHz)



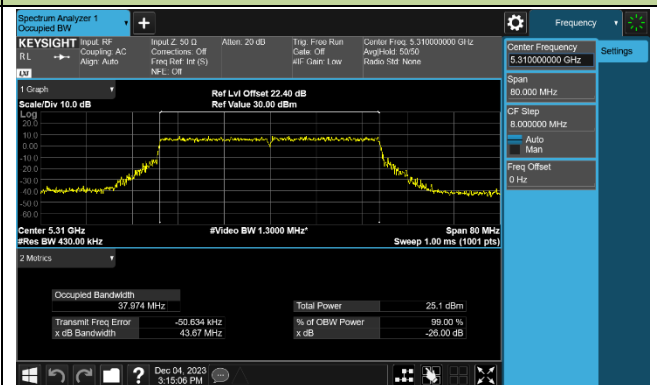
Channel 46 (5230MHz)



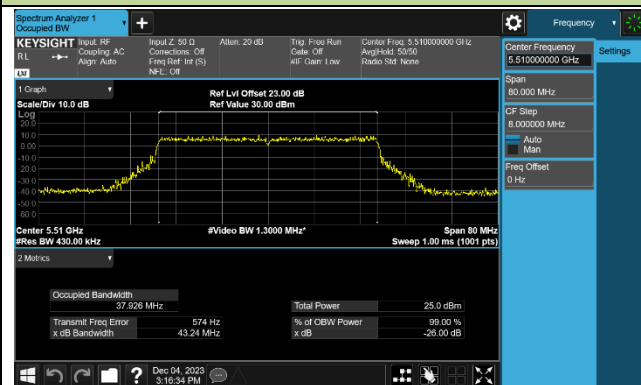
Channel 54 (5270MHz)



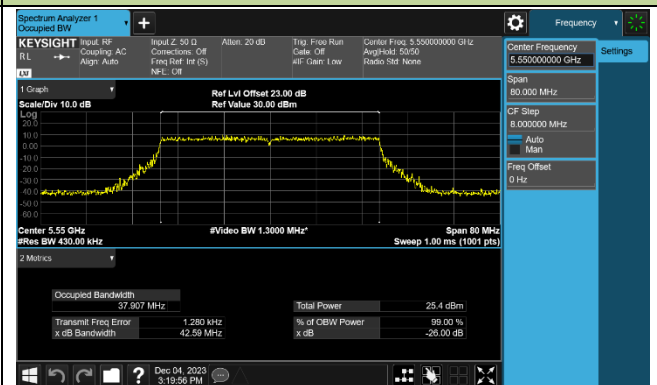
Channel 62 (5310MHz)



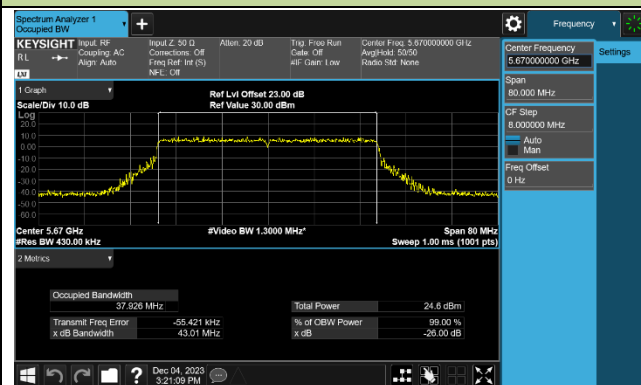
Channel 102 (5510MHz)



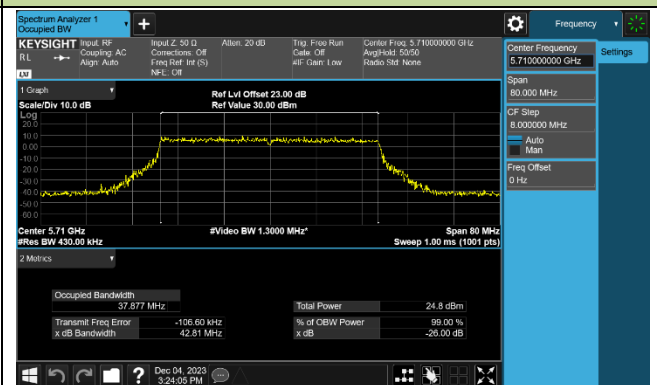
Channel 110 (5550MHz)

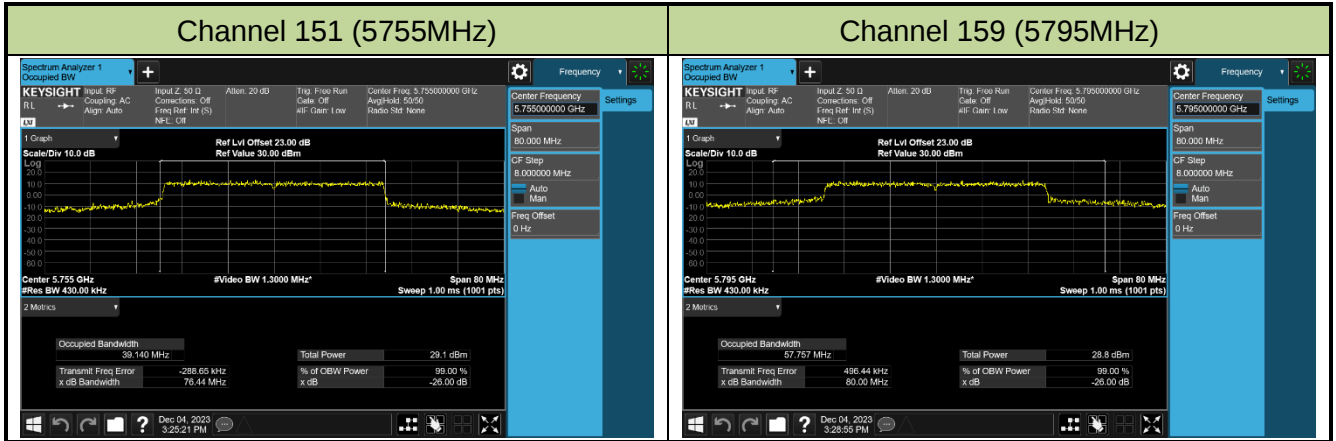


Channel 134 (5670MHz)



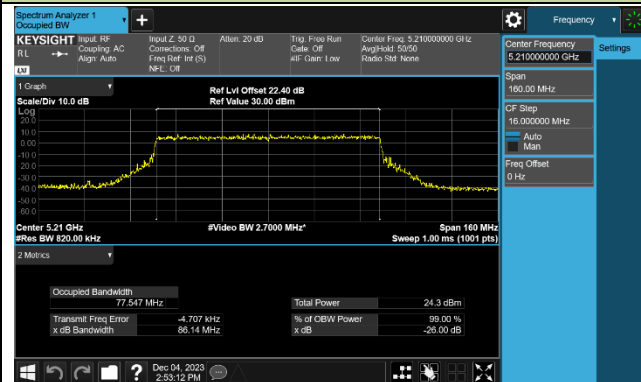
Channel 142 (5710MHz)



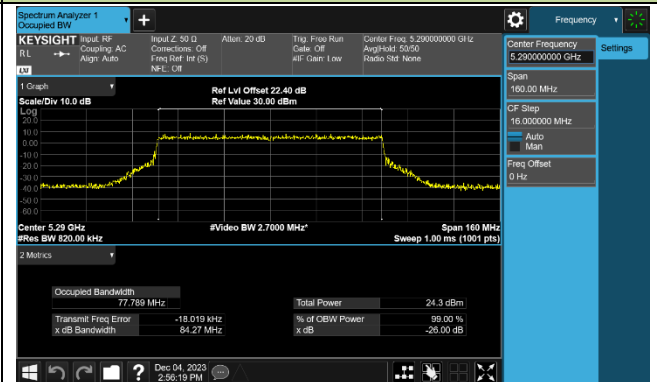


802.11be-EHT80 26dB Bandwidth & 99% Bandwidth

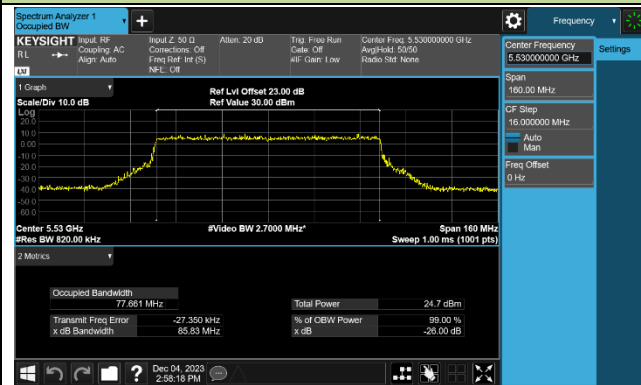
Channel 42 (5210MHz)



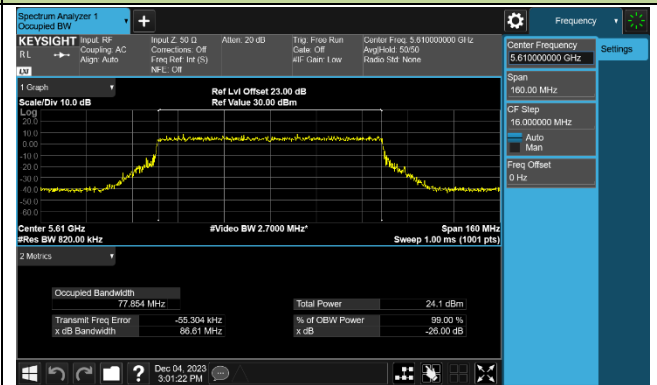
Channel 58 (5290MHz)



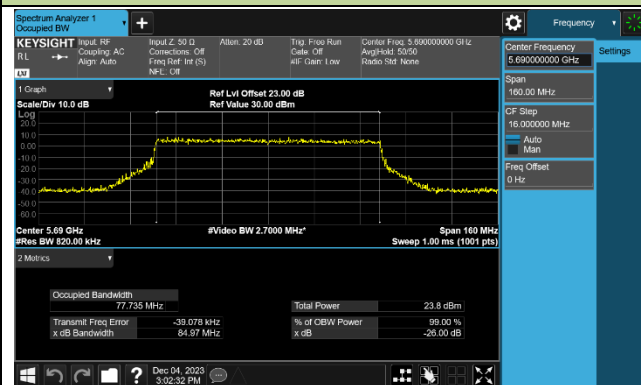
Channel 106 (5530MHz)



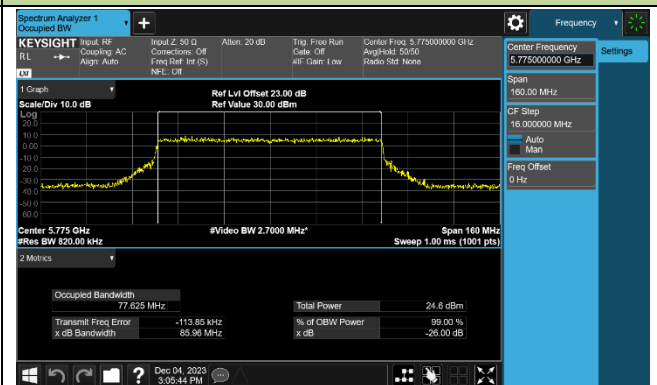
Channel 122 (5610MHz)



Channel 138 (5690MHz)

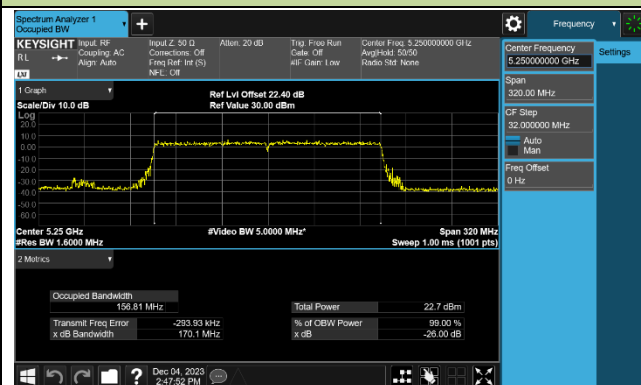


Channel 155 (5775MHz)

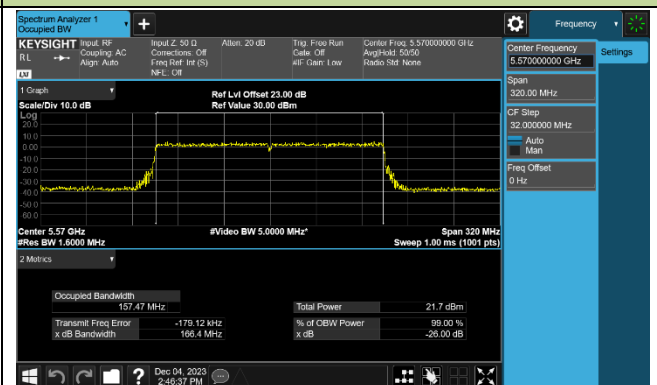


802.11be-EHT160 26dB Bandwidth & 99% Bandwidth

Channel 50 (5250MHz)

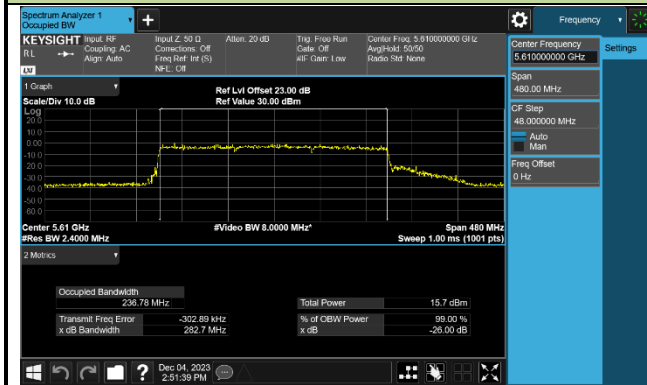


Channel 114 (5570MHz)



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.

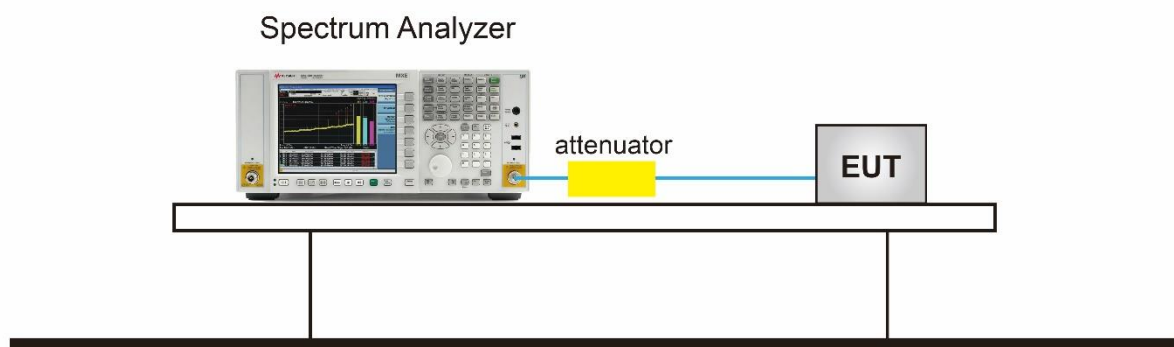
7.3.2. Test Procedure used

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



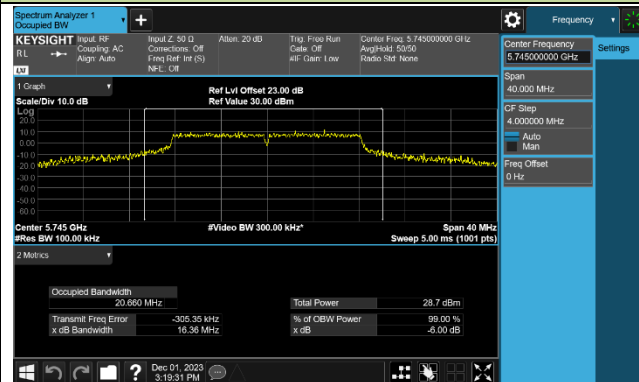
7.3.5.Test Result

Product	BE11000 Whole Home Mesh Wi-Fi 7 System	Test Engineer	Xuan
Test Site	SR6	Test Date	2023/12/1~2023/12/4

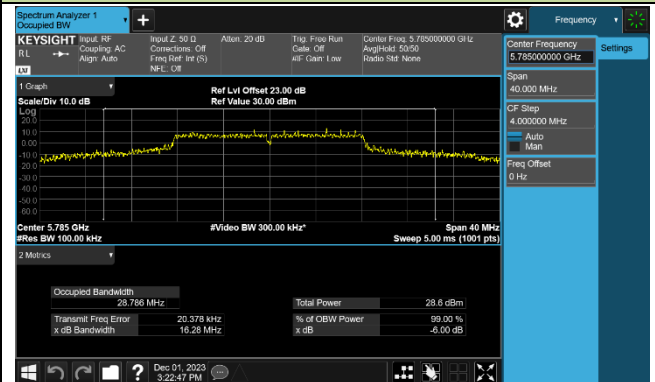
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 0						
802.11a	6Mbps	149	5745	16.360	≥ 0.5	Pass
802.11a	6Mbps	157	5785	16.280	≥ 0.5	Pass
802.11a	6Mbps	165	5825	16.360	≥ 0.5	Pass
802.11ac-VHT20	MCS0	149	5745	17.610	≥ 0.5	Pass
802.11ac-VHT20	MCS0	157	5785	17.610	≥ 0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.800	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	36.450	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	36.450	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	76.530	≥ 0.5	Pass
802.11ax-HE20	MCS0	149	5745	19.010	≥ 0.5	Pass
802.11ax-HE20	MCS0	157	5785	19.080	≥ 0.5	Pass
802.11ax-HE20	MCS0	165	5825	19.140	≥ 0.5	Pass
802.11ax-HE40	MCS0	151	5755	38.060	≥ 0.5	Pass
802.11ax-HE40	MCS0	159	5795	38.150	≥ 0.5	Pass
802.11ax-HE80	MCS0	155	5775	78.250	≥ 0.5	Pass
802.11be-EHT20	MCS0	149	5745	18.620	≥ 0.5	Pass
802.11be-EHT20	MCS0	157	5785	18.930	≥ 0.5	Pass
802.11be-EHT20	MCS0	165	5825	19.060	≥ 0.5	Pass
802.11be-EHT40	MCS0	151	5755	38.040	≥ 0.5	Pass
802.11be-EHT40	MCS0	159	5795	38.150	≥ 0.5	Pass
802.11be-EHT80	MCS0	155	5775	78.050	≥ 0.5	Pass

802.11a 6dB Bandwidth

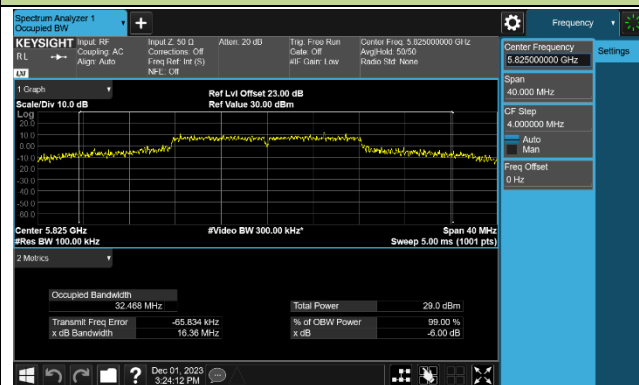
Channel 149 (5745MHz)



Channel 157 (5785MHz)

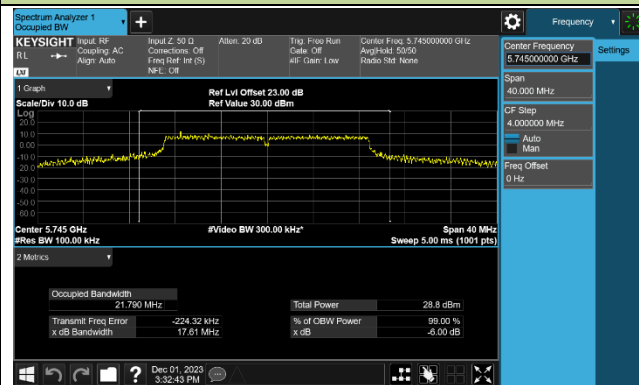


Channel 165 (5825MHz)

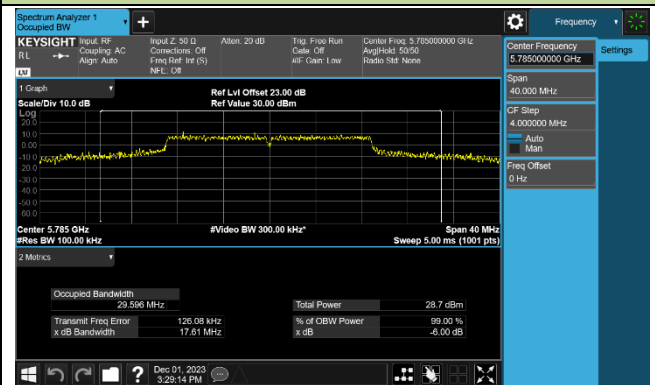


802.11ac-VHT20 6dB Bandwidth

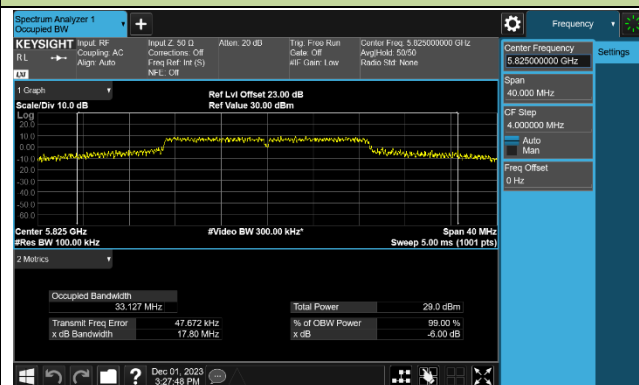
Channel 149 (5745MHz)



Channel 157 (5785MHz)

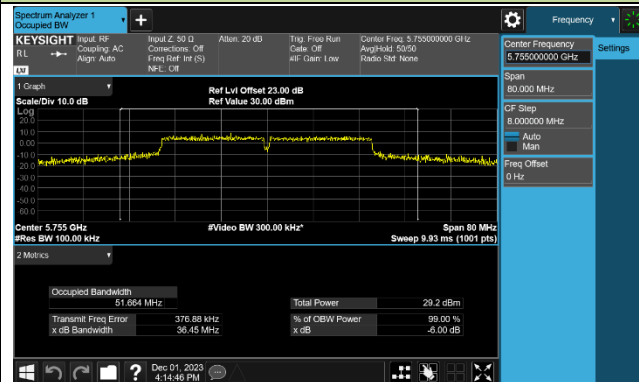


Channel 165 (5825MHz)

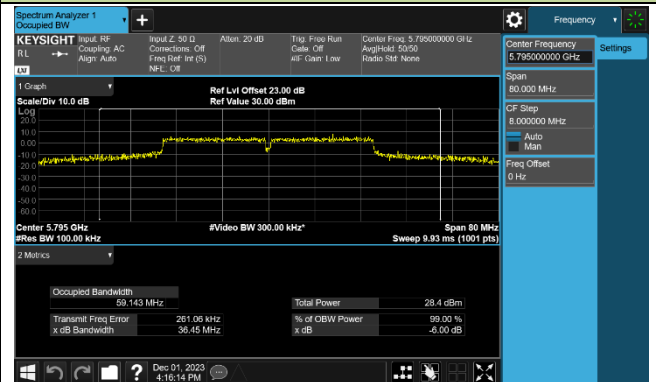


802.11ac-VHT40 6dB Bandwidth

Channel 151 (5755MHz)

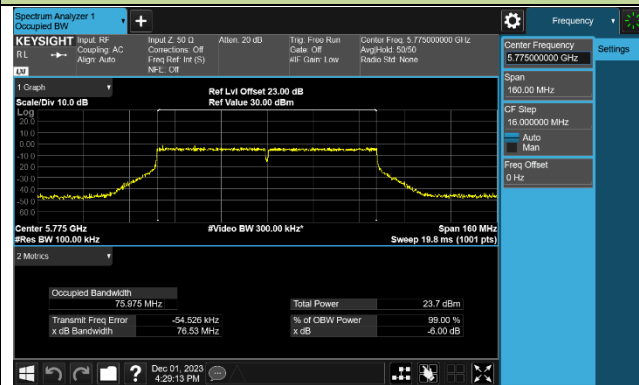


Channel 159 (5795MHz)



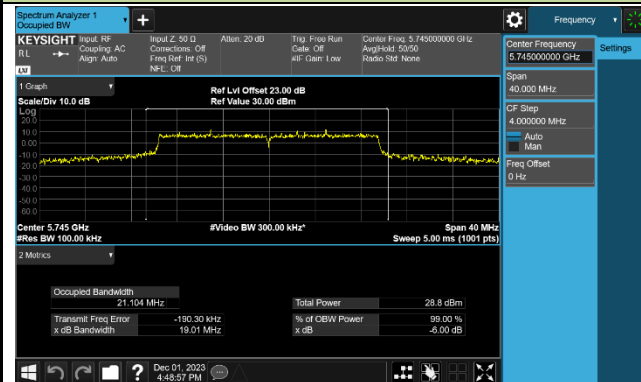
802.11ac-VHT80 6dB Bandwidth

Channel 155 (5775MHz)

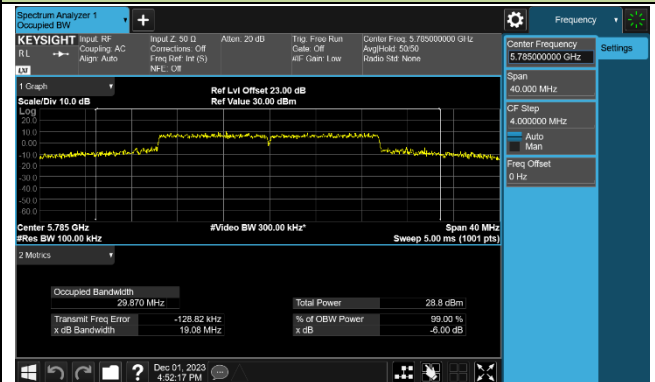


802.11ax-HE20 6dB Bandwidth

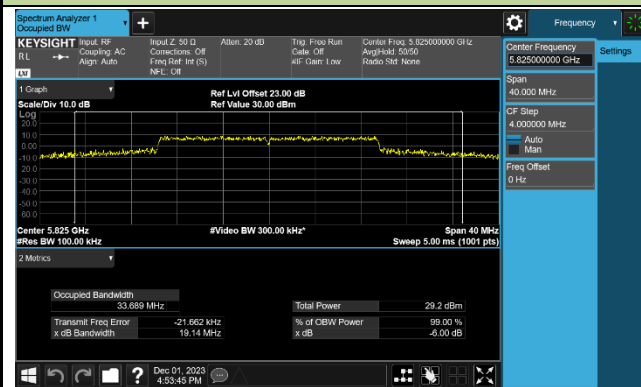
Channel 149 (5745MHz)



Channel 157 (5785MHz)

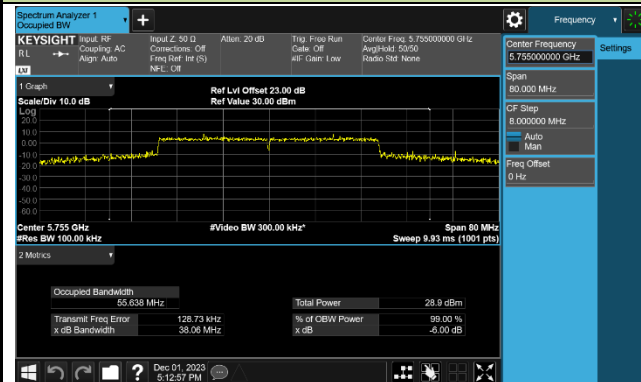


Channel 165 (5825MHz)

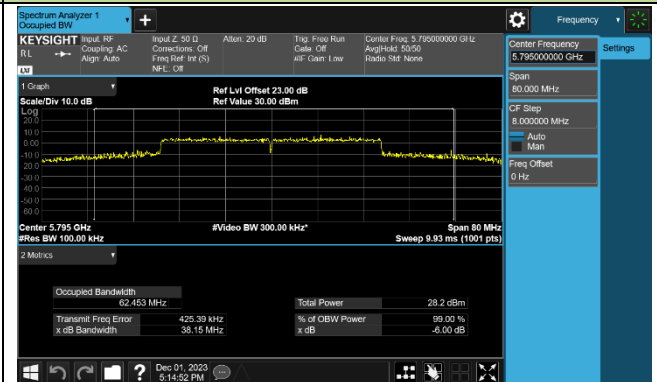


802.11ax-HE40 6dB Bandwidth

Channel 151 (5755MHz)

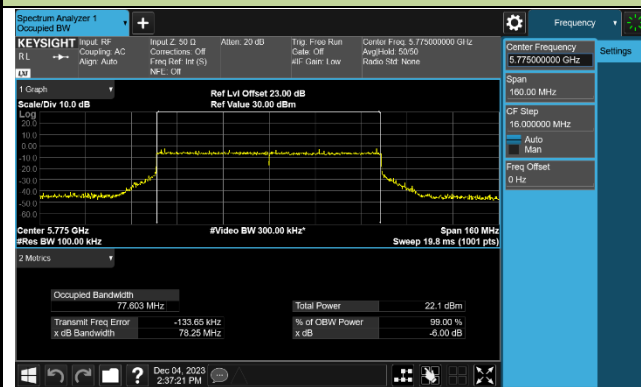


Channel 159 (5795MHz)



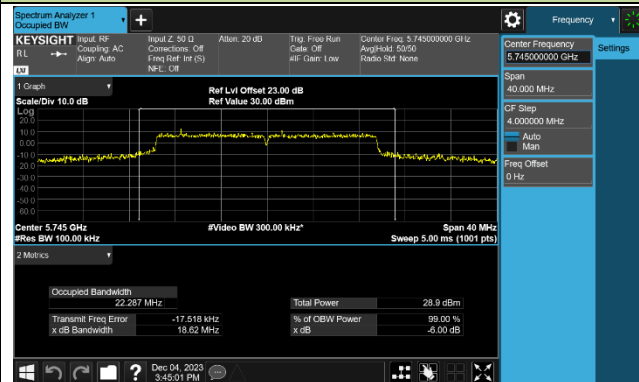
802.11ax-HE80 6dB Bandwidth

Channel 155 (5775MHz)

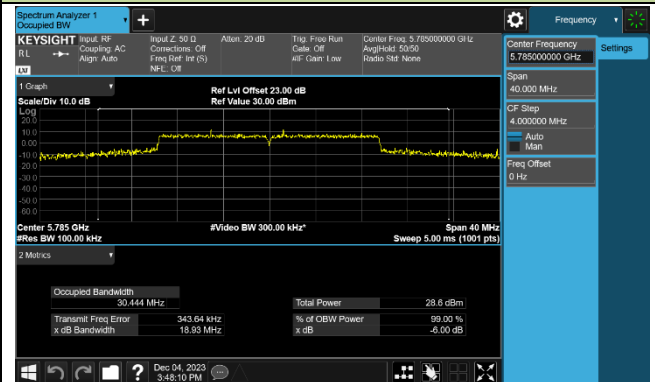


802.11be-EHT20 6dB Bandwidth

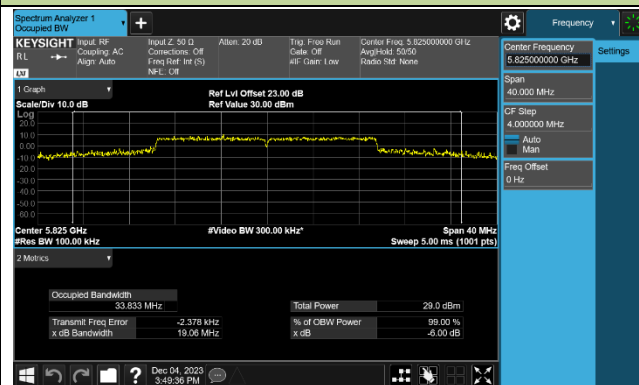
Channel 149 (5745MHz)



Channel 157 (5785MHz)

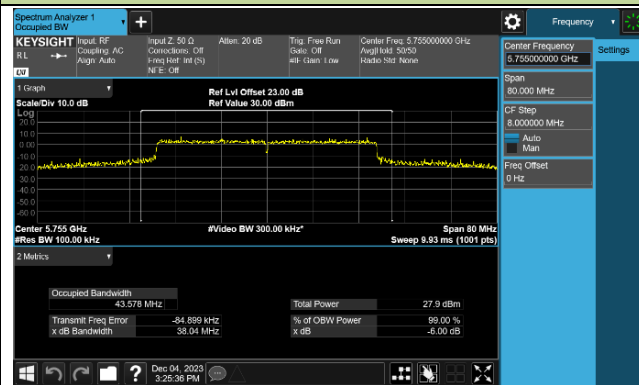


Channel 165 (5825MHz)

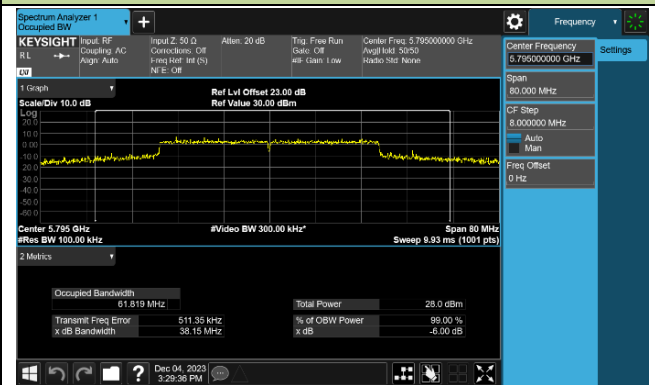


802.11be-EHT 40 6dB Bandwidth

Channel 151 (5755MHz)

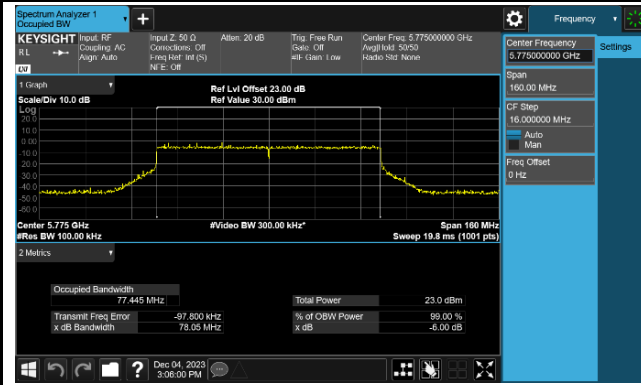


Channel 159 (5795MHz)



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.

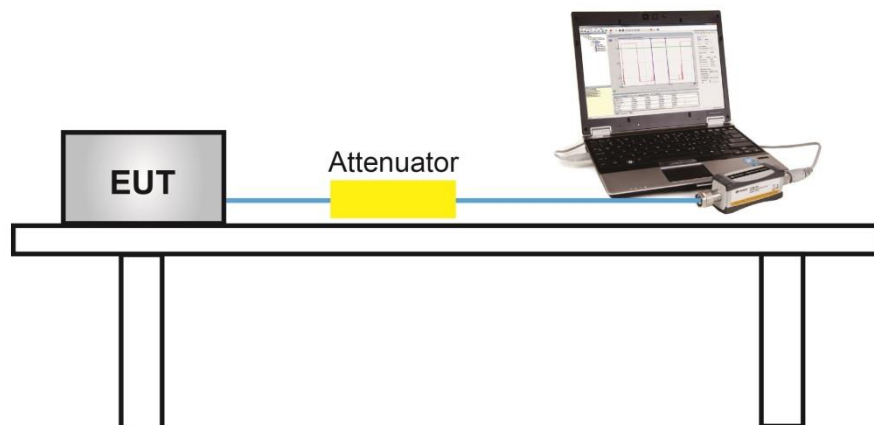
7.4.2. Test Procedure Used

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	Test Engineer	Xuan
Test Site	SR6	Test Date	2023/11/23

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Power Limit (dBm)	Result
CDD Mode								
11a	6Mbps	36	5180	22.36	22.24	25.31	≤ 30.00	Pass
11a	6Mbps	44	5220	25.74	25.02	28.41	≤ 30.00	Pass
11a	6Mbps	48	5240	25.77	25.16	28.49	≤ 30.00	Pass
11a	6Mbps	52	5260	20.05	19.04	22.58	≤ 23.98	Pass
11a	6Mbps	60	5300	19.58	19.11	22.36	≤ 23.98	Pass
11a	6Mbps	64	5320	19.43	19.65	22.55	≤ 23.98	Pass
11a	6Mbps	100	5500	20.31	19.32	22.85	≤ 23.98	Pass
11a	6Mbps	116	5580	20.84	20.03	23.46	≤ 23.98	Pass
11a	6Mbps	140	5700	19.07	20.26	22.72	≤ 23.98	Pass
11a	6Mbps	144	5720	19.57	19.55	22.57	≤ 23.00	Pass
11a	6Mbps	149	5745	25.25	25.02	28.15	≤ 30.00	Pass
11a	6Mbps	157	5785	25.30	25.60	28.46	≤ 30.00	Pass
11a	6Mbps	165	5825	25.07	25.16	28.13	≤ 30.00	Pass
CDD and Beamforming Mode								
11ac-VHT20	MCS0	36	5180	22.27	21.73	25.02	≤ 30.00	Pass
11ac-VHT20	MCS0	44	5220	25.51	25.08	28.31	≤ 30.00	Pass
11ac-VHT20	MCS0	48	5240	25.56	25.22	28.40	≤ 30.00	Pass
11ac-VHT20	MCS0	52	5260	20.85	19.94	23.43	≤ 23.98	Pass
11ac-VHT20	MCS0	60	5300	20.20	20.20	23.21	≤ 23.98	Pass
11ac-VHT20	MCS0	64	5320	20.32	20.40	23.37	≤ 23.98	Pass
11ac-VHT20	MCS0	100	5500	20.88	20.23	23.58	≤ 23.98	Pass
11ac-VHT20	MCS0	116	5580	20.68	19.91	23.32	≤ 23.98	Pass
11ac-VHT20	MCS0	140	5700	20.18	20.53	23.37	≤ 23.98	Pass
11ac-VHT20	MCS0	144	5720	19.55	19.55	22.56	≤ 23.08	Pass
11ac-VHT20	MCS0	149	5745	25.06	25.21	28.15	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	25.04	25.50	28.29	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	24.95	24.90	27.94	≤ 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)	Power Limit (dBm)	Result
CDD and Beamforming Mode								
11ac-VHT40	MCS0	38	5190	21.52	21.25	24.40	≤ 30.00	Pass
11ac-VHT40	MCS0	46	5230	25.93	25.21	28.60	≤ 30.00	Pass
11ac-VHT40	MCS0	54	5270	21.19	20.45	23.85	≤ 23.98	Pass
11ac-VHT40	MCS0	62	5310	20.91	20.73	23.83	≤ 23.98	Pass
11ac-VHT40	MCS0	102	5510	21.17	19.95	23.61	≤ 23.98	Pass
11ac-VHT40	MCS0	110	5550	21.01	20.00	23.54	≤ 23.98	Pass
11ac-VHT40	MCS0	134	5670	20.45	20.52	23.50	≤ 23.98	Pass
11ac-VHT40	MCS0	142	5710	20.45	20.65	23.56	≤ 23.98	Pass
11ac-VHT40	MCS0	151	5755	25.30	25.40	28.36	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	24.61	25.15	27.90	≤ 30.00	Pass
11ac-VHT80	MCS0	42	5210	20.65	20.15	23.42	≤ 30.00	Pass
11ac-VHT80	MCS0	58	5290	19.64	19.46	22.56	≤ 23.98	Pass
11ac-VHT80	MCS0	106	5530	21.11	20.04	23.62	≤ 23.98	Pass
11ac-VHT80	MCS0	122	5610	20.90	20.67	23.80	≤ 23.98	Pass
11ac-VHT80	MCS0	138	5690	20.56	21.07	23.83	≤ 23.98	Pass
11ac-VHT80	MCS0	155	5775	21.80	21.34	24.59	≤ 30.00	Pass
11ac-VHT160	MCS0	50	5250	20.58	19.96	23.29	≤ 23.98	Pass
11ac-VHT160	MCS0	114	5570	18.61	17.63	21.16	≤ 23.98	Pass
11ax-HE20	MCS0	36	5180	22.17	21.70	24.95	≤ 30.00	Pass
11ax-HE20	MCS0	44	5220	25.72	25.17	28.46	≤ 30.00	Pass
11ax-HE20	MCS0	48	5240	25.89	25.24	28.59	≤ 30.00	Pass
11ax-HE20	MCS0	52	5260	20.70	20.06	23.40	≤ 23.98	Pass
11ax-HE20	MCS0	60	5300	20.62	20.13	23.39	≤ 23.98	Pass
11ax-HE20	MCS0	64	5320	19.73	20.06	22.91	≤ 23.98	Pass
11ax-HE20	MCS0	100	5500	20.86	20.09	23.50	≤ 23.98	Pass
11ax-HE20	MCS0	116	5580	20.72	19.95	23.36	≤ 23.98	Pass
11ax-HE20	MCS0	140	5700	20.48	20.56	23.53	≤ 23.98	Pass
11ax-HE20	MCS0	144	5720	19.54	19.61	22.59	≤ 23.09	Pass
11ax-HE20	MCS0	149	5745	25.30	25.15	28.24	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	25.02	25.53	28.29	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	24.80	25.01	27.92	≤ 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)	Power Limit (dBm)	Result
CDD and Beamforming Mode								
11ax-HE40	MCS0	38	5190	21.02	20.66	23.85	≤ 30.00	Pass
11ax-HE40	MCS0	46	5230	26.00	25.18	28.62	≤ 30.00	Pass
11ax-HE40	MCS0	54	5270	21.01	20.45	23.75	≤ 23.98	Pass
11ax-HE40	MCS0	62	5310	20.84	20.67	23.77	≤ 23.98	Pass
11ax-HE40	MCS0	102	5510	21.12	20.00	23.61	≤ 23.98	Pass
11ax-HE40	MCS0	110	5550	20.95	19.97	23.50	≤ 23.98	Pass
11ax-HE40	MCS0	134	5670	20.15	20.74	23.47	≤ 23.98	Pass
11ax-HE40	MCS0	142	5710	20.28	20.60	23.45	≤ 23.98	Pass
11ax-HE40	MCS0	151	5755	25.43	25.81	28.63	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	24.60	25.40	28.03	≤ 30.00	Pass
11ax-HE80	MCS0	42	5210	21.58	21.68	24.64	≤ 30.00	Pass
11ax-HE80	MCS0	58	5290	20.40	19.85	23.14	≤ 23.98	Pass
11ax-HE80	MCS0	106	5530	21.06	19.96	23.56	≤ 23.98	Pass
11ax-HE80	MCS0	122	5610	20.90	20.83	23.88	≤ 23.98	Pass
11ax-HE80	MCS0	138	5690	20.64	21.01	23.84	≤ 23.98	Pass
11ax-HE80	MCS0	155	5775	21.28	20.89	24.10	≤ 30.00	Pass
11ax-HE160	MCS0	50	5250	20.38	19.75	23.09	≤ 23.98	Pass
11ax-HE160	MCS0	114	5570	19.02	17.91	21.51	≤ 23.98	Pass
11be-EHT20	MCS0	36	5180	21.92	21.78	24.86	≤ 30.00	Pass
11be-EHT20	MCS0	44	5220	25.55	25.21	28.39	≤ 30.00	Pass
11be-EHT20	MCS0	48	5240	25.60	25.22	28.42	≤ 30.00	Pass
11be-EHT20	MCS0	52	5260	20.71	19.98	23.37	≤ 23.98	Pass
11be-EHT20	MCS0	60	5300	20.43	20.20	23.33	≤ 23.98	Pass
11be-EHT20	MCS0	64	5320	20.40	20.34	23.38	≤ 23.98	Pass
11be-EHT20	MCS0	100	5500	21.04	20.25	23.67	≤ 23.98	Pass
11be-EHT20	MCS0	116	5580	20.65	19.58	23.16	≤ 23.98	Pass
11be-EHT20	MCS0	140	5700	20.12	20.54	23.35	≤ 23.98	Pass
11be-EHT20	MCS0	144	5720	19.45	19.55	22.51	≤ 23.02	Pass
11be-EHT20	MCS0	149	5745	25.16	25.20	28.19	≤ 30.00	Pass
11be-EHT20	MCS0	157	5785	25.05	25.15	28.11	≤ 30.00	Pass
11be-EHT20	MCS0	165	5825	25.04	24.87	27.97	≤ 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)	Power Limit (dBm)	Result
CDD and Beamforming Mode								
11be-EHT40	MCS0	38	5190	21.43	20.83	24.15	≤ 30.00	Pass
11be-EHT40	MCS0	46	5230	25.78	25.11	28.47	≤ 30.00	Pass
11be-EHT40	MCS0	54	5270	21.13	20.29	23.74	≤ 23.98	Pass
11be-EHT40	MCS0	62	5310	20.81	20.62	23.73	≤ 23.98	Pass
11be-EHT40	MCS0	102	5510	21.01	20.00	23.54	≤ 23.98	Pass
11be-EHT40	MCS0	110	5550	21.46	20.15	23.86	≤ 23.98	Pass
11be-EHT40	MCS0	134	5670	20.59	20.92	23.77	≤ 23.98	Pass
11be-EHT40	MCS0	142	5710	20.75	21.02	23.90	≤ 23.98	Pass
11be-EHT40	MCS0	151	5755	24.87	23.76	27.36	≤ 30.00	Pass
11be-EHT40	MCS0	159	5795	24.63	25.29	27.98	≤ 30.00	Pass
11be-EHT80	MCS0	42	5210	20.66	20.07	23.39	≤ 30.00	Pass
11be-EHT80	MCS0	58	5290	20.43	20.18	23.32	≤ 23.98	Pass
11be-EHT80	MCS0	106	5530	21.21	20.01	23.66	≤ 23.98	Pass
11be-EHT80	MCS0	122	5610	20.51	20.26	23.40	≤ 23.98	Pass
11be-EHT80	MCS0	138	5690	20.23	20.60	23.43	≤ 23.98	Pass
11be-EHT80	MCS0	155	5775	21.77	21.35	24.58	≤ 30.00	Pass
11be-EHT160	MCS0	50	5250	20.41	19.79	23.12	≤ 23.98	Pass
11be-EHT160	MCS0	114	5570	18.82	17.62	21.27	≤ 23.98	Pass
11be-EHT240	MCS0	130	5650	13.22	13.60	16.42	≤ 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.

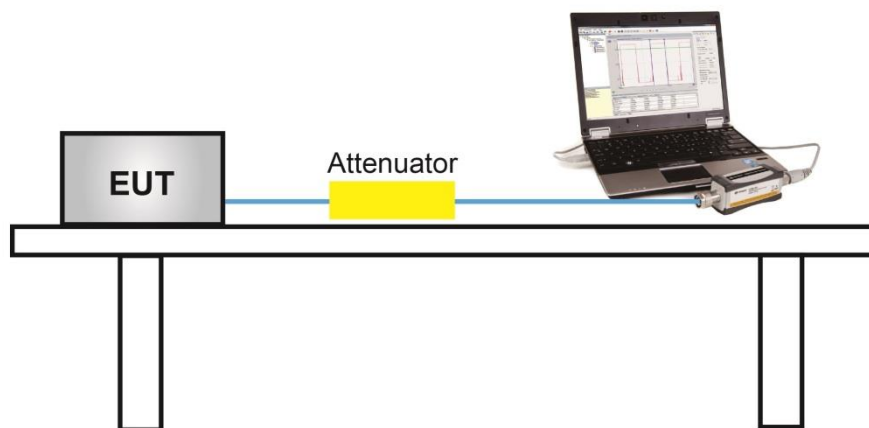
7.5.2. Test Procedure Used

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.

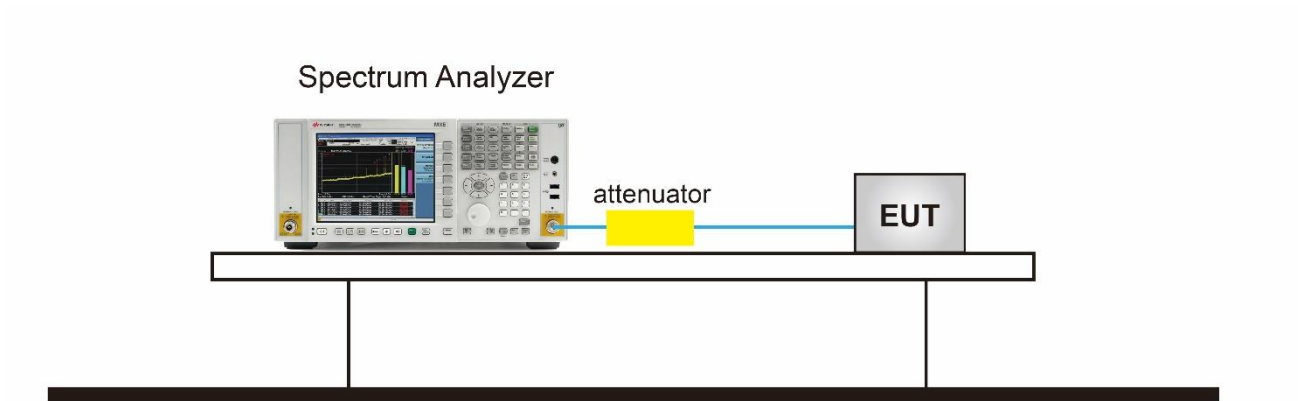
7.6.2. Test Procedure Used

KDB 789033 D02v02r01-Section F

7.6.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz, if measurement bandwidth of Maximum PSD is specified in 500 kHz,
RBW = 510 kHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
10. Add $10 \cdot \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \cdot \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

7.6.4. Test Setup



7.6.5.Test Result

Product	BE11000 Whole Home Mesh Wi-Fi 7 System	Test Engineer	Xuan
Test Site	SR6	Test Date	2023/11/23~2023/12/4
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	10.320	9.861	99.10%	13.146	≤ 17.00	Pass
11a	6Mbps	44	5220	12.900	12.386	99.10%	15.700	≤ 17.00	Pass
11a	6Mbps	48	5240	12.934	12.222	99.10%	15.642	≤ 17.00	Pass
11a	6Mbps	52	5260	7.801	7.098	99.10%	10.513	≤ 11.00	Pass
11a	6Mbps	60	5300	7.922	7.296	99.10%	10.670	≤ 11.00	Pass
11a	6Mbps	64	5320	7.821	7.854	99.10%	10.887	≤ 11.00	Pass
11a	6Mbps	100	5500	8.217	7.308	99.10%	10.836	≤ 11.00	Pass
11a	6Mbps	116	5580	8.005	7.276	99.10%	10.705	≤ 11.00	Pass
11a	6Mbps	140	5700	7.501	7.581	99.10%	10.591	≤ 11.00	Pass
11a	6Mbps	144	5720	6.981	6.851	99.10%	9.966	≤ 11.00	Pass
11ac-VHT20	MCS0	36	5180	9.401	9.134	98.35%	12.352	≤ 17.00	Pass
11ac-VHT20	MCS0	44	5220	12.668	12.303	98.35%	15.572	≤ 17.00	Pass
11ac-VHT20	MCS0	48	5240	13.161	12.496	98.35%	15.924	≤ 17.00	Pass
11ac-VHT20	MCS0	52	5260	7.984	7.322	98.35%	10.748	≤ 11.00	Pass
11ac-VHT20	MCS0	60	5300	8.074	7.475	98.35%	10.867	≤ 11.00	Pass
11ac-VHT20	MCS0	64	5320	7.748	7.788	98.35%	10.851	≤ 11.00	Pass
11ac-VHT20	MCS0	100	5500	7.908	7.257	98.35%	10.677	≤ 11.00	Pass
11ac-VHT20	MCS0	116	5580	8.166	7.175	98.35%	10.781	≤ 11.00	Pass
11ac-VHT20	MCS0	140	5700	7.584	7.676	98.35%	10.713	≤ 11.00	Pass
11ac-VHT20	MCS0	144	5720	6.772	6.556	98.35%	9.748	≤ 11.00	Pass
11ac-VHT40	MCS0	38	5190	6.046	5.380	97.06%	8.866	≤ 17.00	Pass
11ac-VHT40	MCS0	46	5230	10.509	9.792	97.06%	13.305	≤ 17.00	Pass
11ac-VHT40	MCS0	54	5270	5.957	5.241	97.06%	8.754	≤ 11.00	Pass
11ac-VHT40	MCS0	62	5310	6.117	5.527	97.06%	8.972	≤ 11.00	Pass
11ac-VHT40	MCS0	102	5510	5.666	4.400	97.06%	8.219	≤ 11.00	Pass
11ac-VHT40	MCS0	110	5550	5.364	4.045	97.06%	7.894	≤ 11.00	Pass
11ac-VHT40	MCS0	134	5670	4.721	4.899	97.06%	7.951	≤ 11.00	Pass
11ac-VHT40	MCS0	142	5710	4.926	4.980	97.06%	8.093	≤ 11.00	Pass

Test Mode	Data Rate /MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycle	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11ac-VHT80	MCS0	42	5210	1.826	1.262	96.89%	4.701	≤ 17.00	Pass
11ac-VHT80	MCS0	58	5290	1.108	1.133	96.89%	4.268	≤ 11.00	Pass
11ac-VHT80	MCS0	106	5530	2.407	1.343	96.89%	5.055	≤ 11.00	Pass
11ac-VHT80	MCS0	122	5610	2.243	1.838	96.89%	5.193	≤ 11.00	Pass
11ac-VHT80	MCS0	138	5690	2.254	2.302	96.89%	5.426	≤ 11.00	Pass
11ac-VHT160	MCS0	50	5250	-1.774	-2.464	97.11%	1.032	≤ 11.00	Pass
11ac-VHT160	MCS0	114	5570	-2.532	-3.717	97.11%	0.053	≤ 11.00	Pass
11ax-HE20	MCS0	36	5180	9.377	9.290	97.15%	12.470	≤ 17.00	Pass
11ax-HE20	MCS0	44	5220	12.656	12.157	97.15%	15.550	≤ 17.00	Pass
11ax-HE20	MCS0	48	5240	12.908	12.018	97.15%	15.622	≤ 17.00	Pass
11ax-HE20	MCS0	52	5260	7.825	7.530	97.15%	10.816	≤ 11.00	Pass
11ax-HE20	MCS0	60	5300	7.819	7.454	97.15%	10.776	≤ 11.00	Pass
11ax-HE20	MCS0	64	5320	7.435	7.308	97.15%	10.508	≤ 11.00	Pass
11ax-HE20	MCS0	100	5500	8.156	7.225	97.15%	10.851	≤ 11.00	Pass
11ax-HE20	MCS0	116	5580	8.065	6.711	97.15%	10.576	≤ 11.00	Pass
11ax-HE20	MCS0	140	5700	7.738	7.701	97.15%	10.855	≤ 11.00	Pass
11ax-HE20	MCS0	144	5720	6.568	6.691	97.15%	9.766	≤ 11.00	Pass
11ax-HE40	MCS0	38	5190	5.233	4.927	96.68%	8.240	≤ 17.00	Pass
11ax-HE40	MCS0	46	5230	10.214	9.766	96.68%	13.153	≤ 17.00	Pass
11ax-HE40	MCS0	54	5270	5.683	4.865	96.68%	8.450	≤ 11.00	Pass
11ax-HE40	MCS0	62	5310	5.637	5.276	96.68%	8.617	≤ 11.00	Pass
11ax-HE40	MCS0	102	5510	5.520	4.166	96.68%	8.052	≤ 11.00	Pass
11ax-HE40	MCS0	110	5550	5.181	4.172	96.68%	7.863	≤ 11.00	Pass
11ax-HE40	MCS0	134	5670	4.510	4.712	96.68%	7.769	≤ 11.00	Pass
11ax-HE40	MCS0	142	5710	4.788	4.885	96.68%	7.994	≤ 11.00	Pass
11ax-HE80	MCS0	42	5210	2.200	1.559	98.15%	4.983	≤ 17.00	Pass
11ax-HE80	MCS0	58	5290	2.112	1.515	98.15%	4.915	≤ 11.00	Pass
11ax-HE80	MCS0	106	5530	2.468	1.238	98.15%	4.988	≤ 11.00	Pass
11ax-HE80	MCS0	122	5610	1.635	1.063	98.15%	4.450	≤ 11.00	Pass
11ax-HE80	MCS0	122	5690	1.520	1.846	98.15%	4.777	≤ 11.00	Pass
11ax-HE160	MCS0	50	5250	-2.375	-2.569	97.54%	0.648	≤ 11.00	Pass
11ax-HE160	MCS0	114	5570	-3.162	-4.126	97.54%	-0.499	≤ 11.00	Pass

Test Mode	Data Rate /MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycle	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11be-EHT20	MCS0	36	5180	9.457	8.839	98.66%	12.228	≤ 17.00	Pass
11be-EHT20	MCS0	44	5220	12.233	12.040	98.66%	15.206	≤ 17.00	Pass
11be-EHT20	MCS0	48	5240	12.577	12.071	98.66%	15.400	≤ 17.00	Pass
11be-EHT20	MCS0	52	5260	7.945	7.348	98.66%	10.726	≤ 11.00	Pass
11be-EHT20	MCS0	60	5300	7.830	7.477	98.66%	10.726	≤ 11.00	Pass
11be-EHT20	MCS0	64	5320	7.773	7.732	98.66%	10.821	≤ 11.00	Pass
11be-EHT20	MCS0	100	5500	8.102	7.217	98.66%	10.751	≤ 11.00	Pass
11be-EHT20	MCS0	116	5580	7.826	6.908	98.66%	10.460	≤ 11.00	Pass
11be-EHT20	MCS0	140	5700	7.426	7.545	98.66%	10.555	≤ 11.00	Pass
11be-EHT20	MCS0	144	5720	6.592	6.397	98.66%	9.564	≤ 11.00	Pass
11be-EHT40	MCS0	38	5190	5.573	5.139	98.14%	8.453	≤ 17.00	Pass
11be-EHT40	MCS0	46	5230	9.941	9.431	98.14%	12.785	≤ 17.00	Pass
11be-EHT40	MCS0	54	5270	5.577	4.781	98.14%	8.289	≤ 11.00	Pass
11be-EHT40	MCS0	62	5310	5.282	5.552	98.14%	8.511	≤ 11.00	Pass
11be-EHT40	MCS0	102	5510	5.336	3.679	98.14%	7.678	≤ 11.00	Pass
11be-EHT40	MCS0	110	5550	5.619	4.200	98.14%	8.059	≤ 11.00	Pass
11be-EHT40	MCS0	134	5670	4.945	5.095	98.14%	8.112	≤ 11.00	Pass
11be-EHT40	MCS0	142	5710	4.925	5.353	98.14%	8.236	≤ 11.00	Pass
11be-EHT80	MCS0	42	5210	1.670	1.015	97.26%	4.486	≤ 17.00	Pass
11be-EHT80	MCS0	58	5290	1.886	1.367	97.26%	4.765	≤ 11.00	Pass
11be-EHT80	MCS0	106	5530	2.024	0.881	97.26%	4.621	≤ 11.00	Pass
11be-EHT80	MCS0	122	5610	1.542	1.536	97.26%	4.670	≤ 11.00	Pass
11be-EHT80	MCS0	138	5690	1.556	1.751	97.26%	4.786	≤ 11.00	Pass
11be-EHT160	MCS0	50	5250	-2.141	-2.683	97.38%	0.722	≤ 11.00	Pass
11be-EHT160	MCS0	114	5570	-3.341	-3.941	97.38%	-0.505	≤ 11.00	Pass
11be-EHT240	MCS0	130	5650	-10.124	-9.937	96.40%	-6.860	≤ 11.00	Pass

Note: When EUT duty cycle ≥ 98%,

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

When EUT duty cycle < 98%,

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

Product	BE11000 Whole Home Mesh Wi-Fi 7 System	Test Engineer	Xuan
Test Site	SR6	Test Date	2023/11/23~2023/12/4
Test Item	Power Spectral Density (U-NII-3) CDD Mode		

Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/510k Hz)	Ant 1 PSD (dBm/510k Hz)	Duty Cycle	Total PSD (dBm/510k Hz)	Limit (dBm/500k Hz)	Result
11a	6Mbps	149	5745	10.037	9.748	99.10%	12.944	≤ 29.99	Pass
11a	6Mbps	157	5785	9.899	10.186	99.10%	13.094	≤ 29.99	Pass
11a	6Mbps	165	5825	9.921	9.794	99.10%	12.908	≤ 29.99	Pass
11ac-VHT20	MCS0	149	5745	9.761	9.543	98.35%	12.736	≤ 29.99	Pass
11ac-VHT20	MCS0	157	5785	9.567	9.943	98.35%	12.842	≤ 29.99	Pass
11ac-VHT20	MCS0	165	5825	9.414	9.640	98.35%	12.611	≤ 29.99	Pass
11ac-VHT40	MCS0	151	5755	7.263	6.987	97.06%	10.267	≤ 29.99	Pass
11ac-VHT40	MCS0	159	5795	6.278	7.001	97.06%	9.794	≤ 29.99	Pass
11ac-VHT80	MCS0	155	5775	-0.594	-1.519	96.89%	2.116	≤ 29.99	Pass
11ax-HE20	MCS0	149	5745	9.559	9.354	97.15%	12.594	≤ 29.99	Pass
11ax-HE20	MCS0	157	5785	9.332	9.442	97.15%	12.523	≤ 29.99	Pass
11ax-HE20	MCS0	165	5825	9.352	9.449	97.15%	12.537	≤ 29.99	Pass
11ax-HE40	MCS0	151	5755	7.138	7.500	96.68%	10.480	≤ 29.99	Pass
11ax-HE40	MCS0	159	5795	6.395	6.515	96.68%	9.612	≤ 29.99	Pass
11ax-HE80	MCS0	155	5775	-1.733	-2.154	98.15%	1.153	≤ 29.99	Pass
11be-EHT20	MCS0	149	5745	10.040	9.221	98.66%	12.719	≤ 29.99	Pass
11be-EHT20	MCS0	157	5785	9.484	9.322	98.66%	12.473	≤ 29.99	Pass
11be-EHT20	MCS0	165	5825	9.438	9.104	98.66%	12.343	≤ 29.99	Pass
11be-EHT40	MCS0	151	5755	6.240	5.563	98.14%	9.007	≤ 29.99	Pass
11be-EHT40	MCS0	159	5795	5.661	6.627	98.14%	9.263	≤ 29.99	Pass
11be-EHT80	MCS0	155	5775	-0.870	-1.327	97.26%	2.038	≤ 29.99	Pass

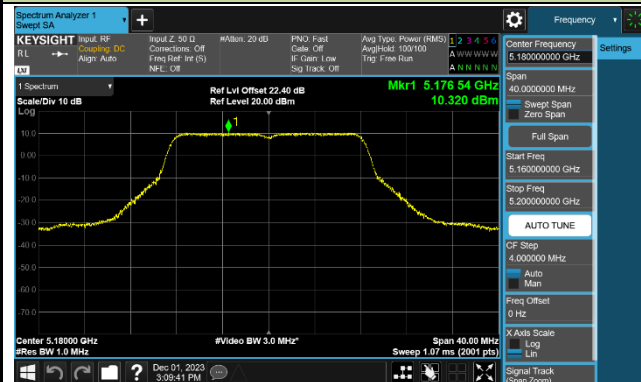
Note: When EUT duty cycle ≥ 98%,

the total PSD (dBm/510kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/510kHz).

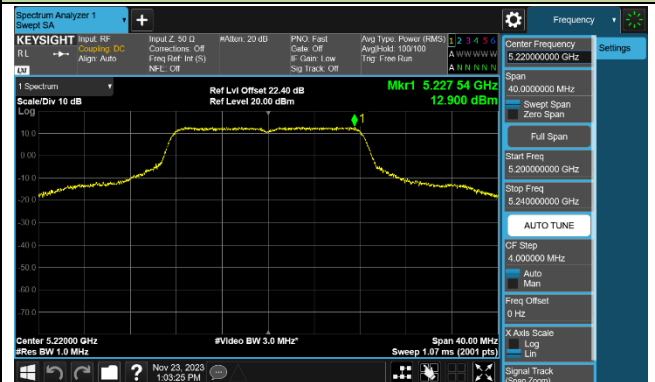
When EUT duty cycle < 98%, the total PSD (dBm/510kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/510kHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

802.11a Power Spectral Density - Ant 0

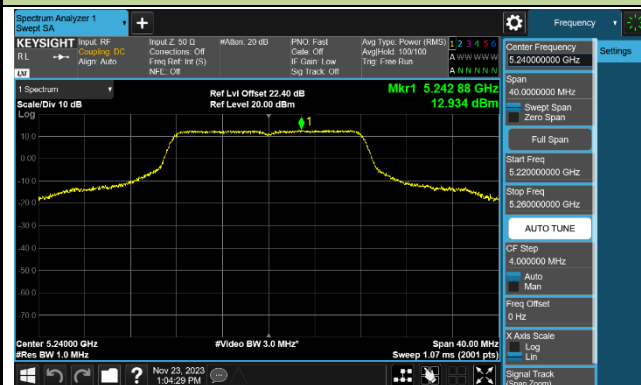
Channel 36 (5180MHz)



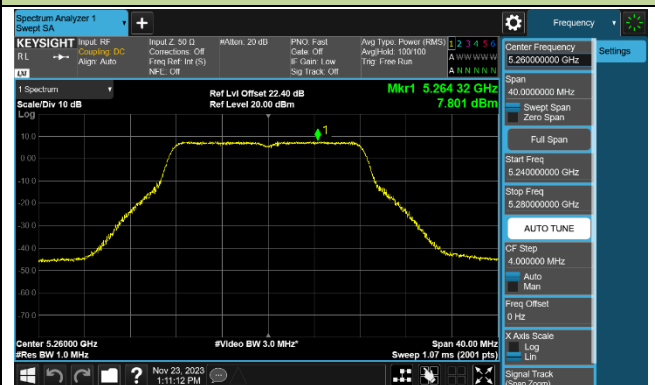
Channel 44 (5220MHz)



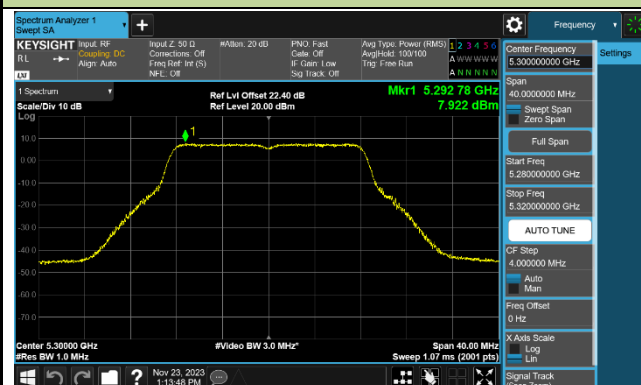
Channel 48 (5240MHz)



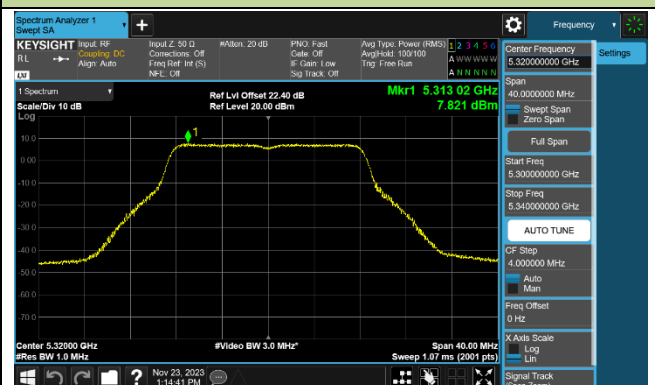
Channel 52 (5260MHz)



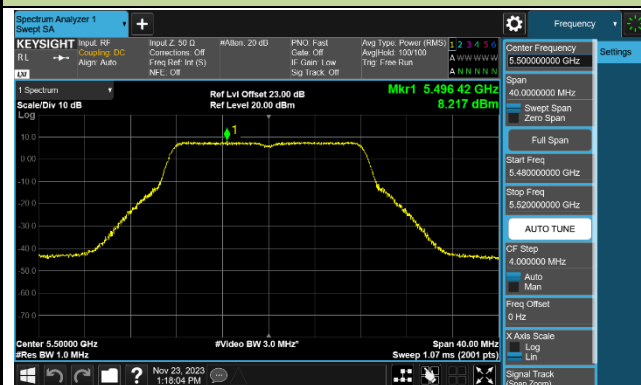
Channel 60 (5300MHz)



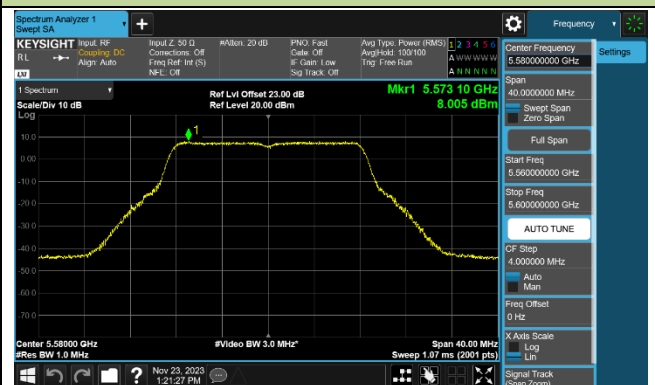
Channel 64 (5320MHz)



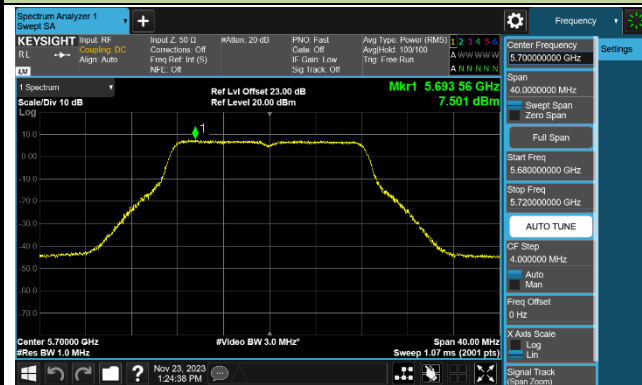
Channel 100 (5500MHz)



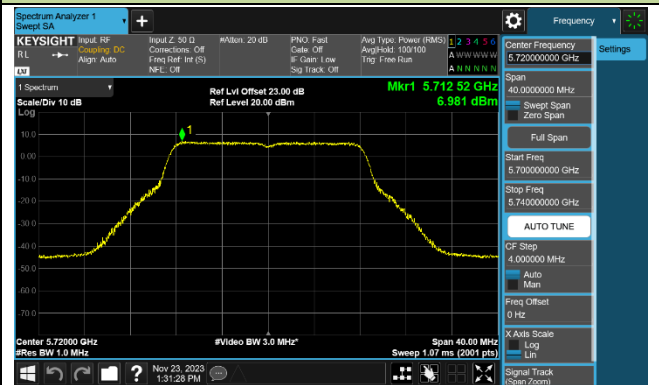
Channel 116 (5580MHz)



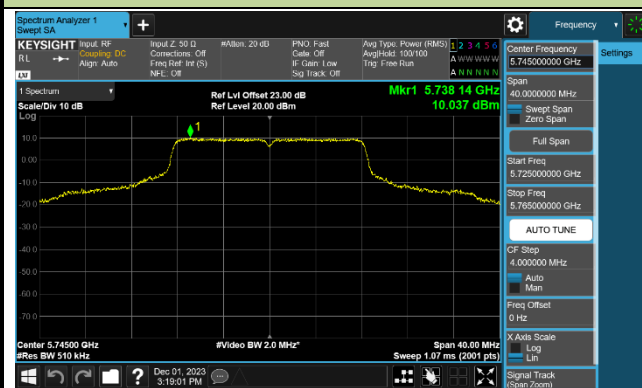
Channel 140 (5700MHz)



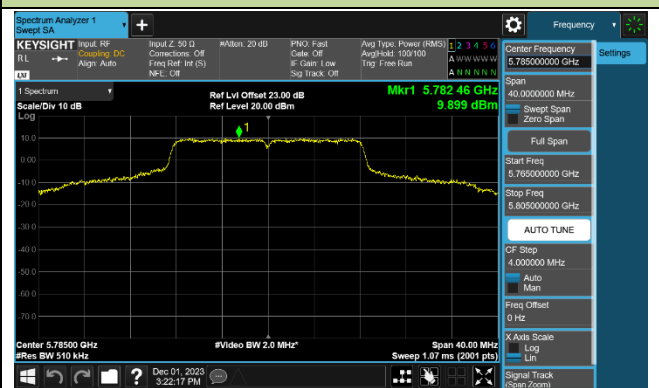
Channel 144 (5720MHz)



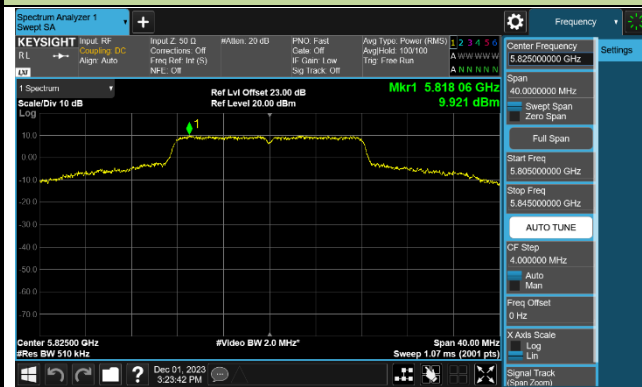
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

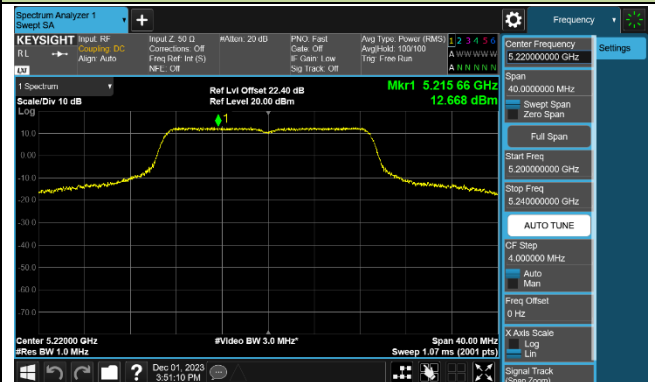


802.11ac-VHT20 Power Spectral Density - Ant 0

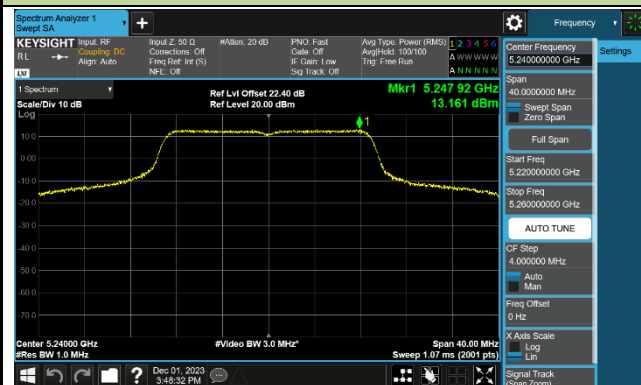
Channel 36 (5180MHz)



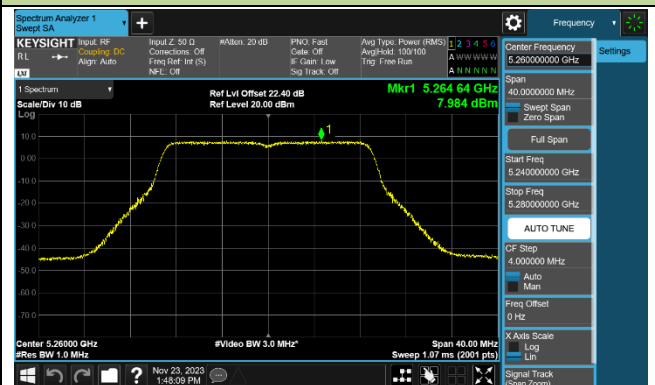
Channel 44 (5220MHz)



Channel 48 (5240MHz)



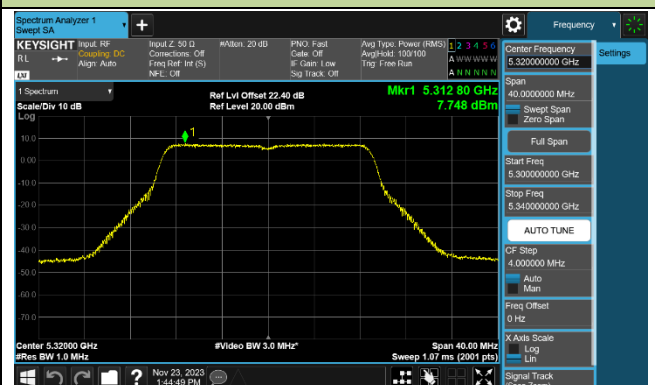
Channel 52 (5260MHz)



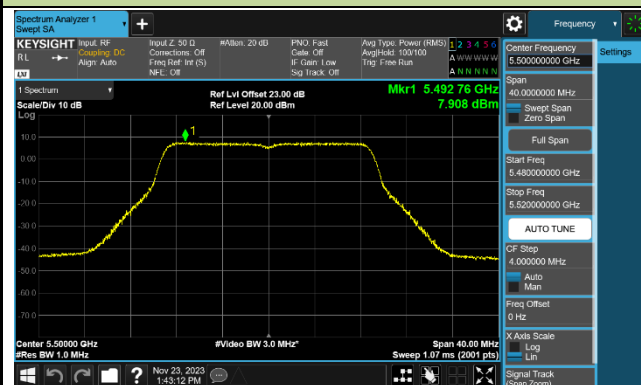
Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)

