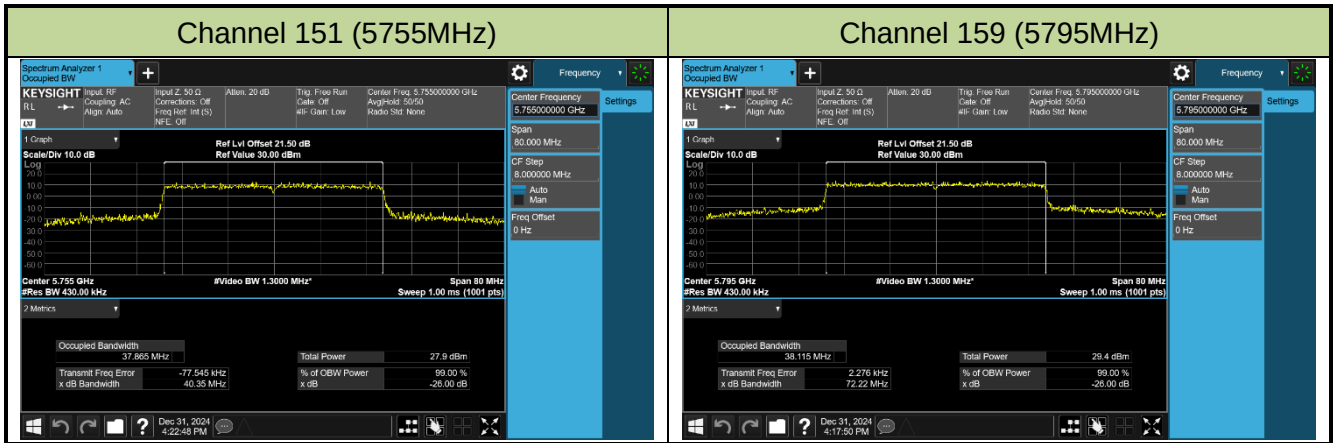
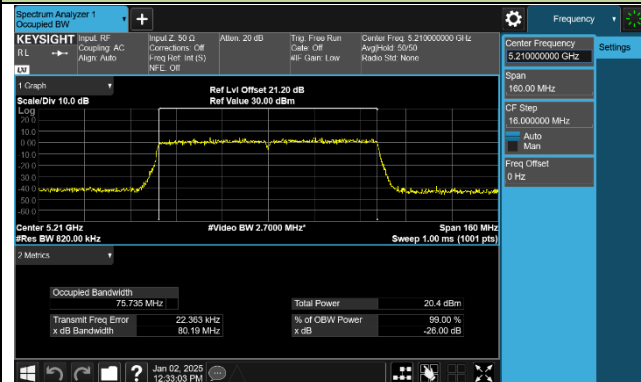


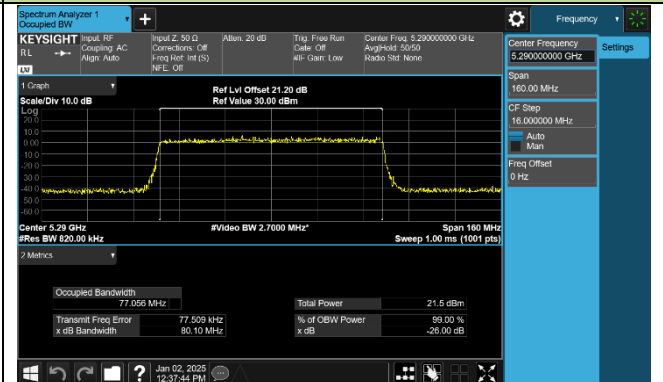


802.11ax-HE80 26dB Bandwidth & 99% Bandwidth

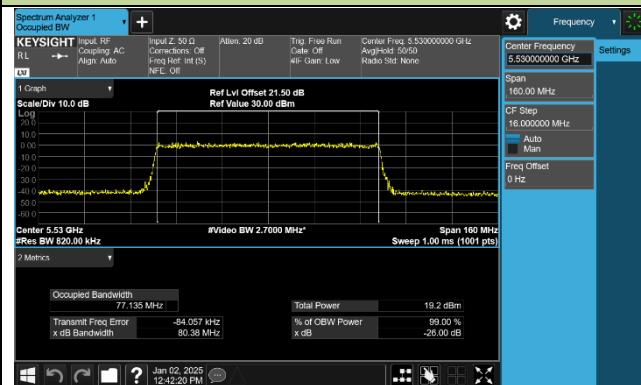
Channel 42 (5210MHz)



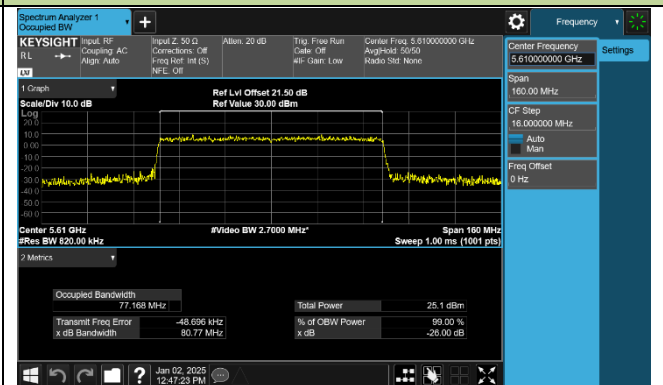
Channel 58 (5290MHz)



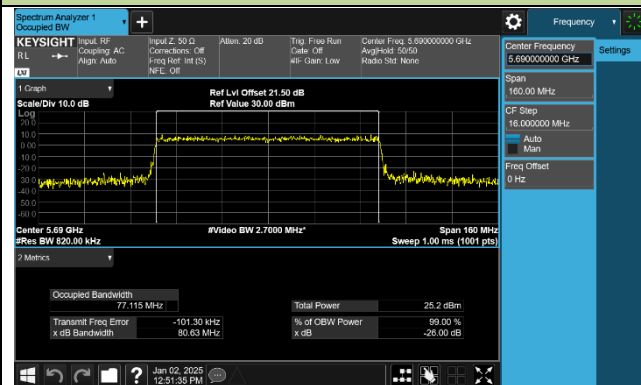
Channel 106 (5530MHz)



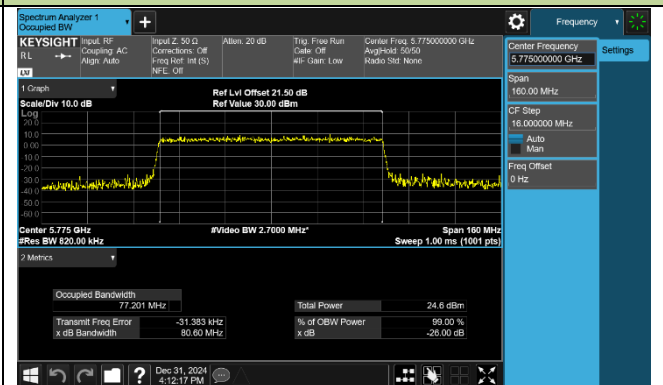
Channel 122 (5610MHz)



Channel 138 (5690MHz)

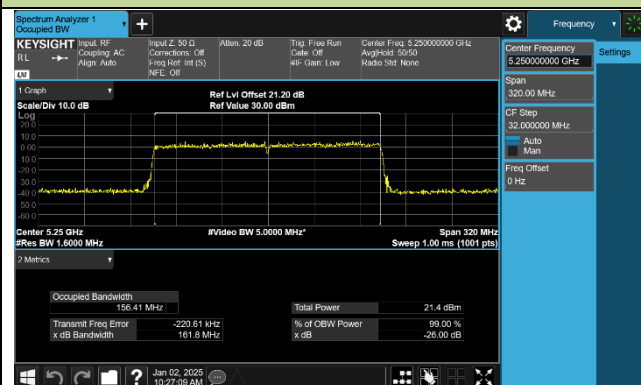


Channel 155 (5775MHz)

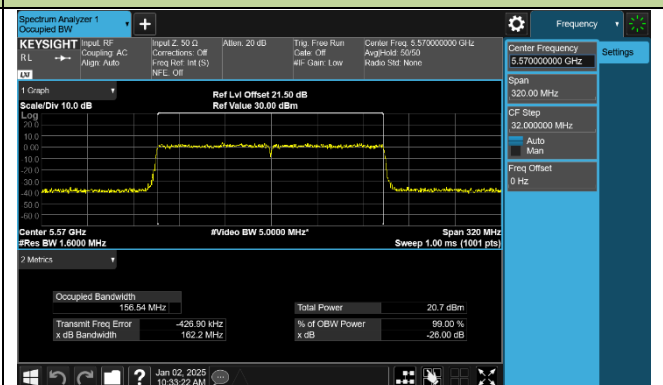


802.11ax-HE160 26dB Bandwidth & 99% Bandwidth

Channel 50 (5250MHz)

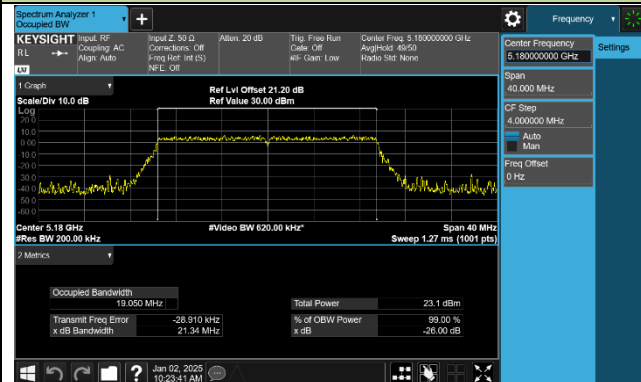


Channel 114 (5570MHz)

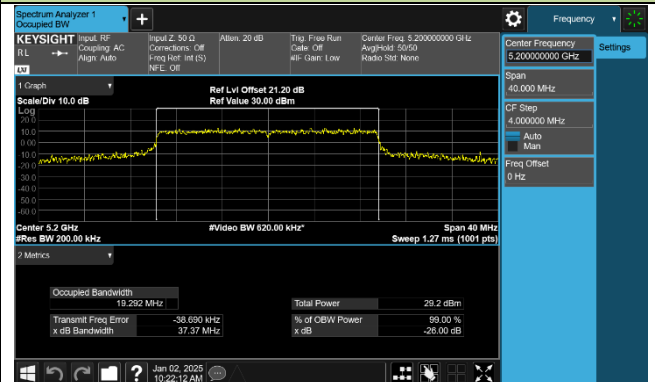


802.11be-EHT20 26dB Bandwidth & 99% Bandwidth

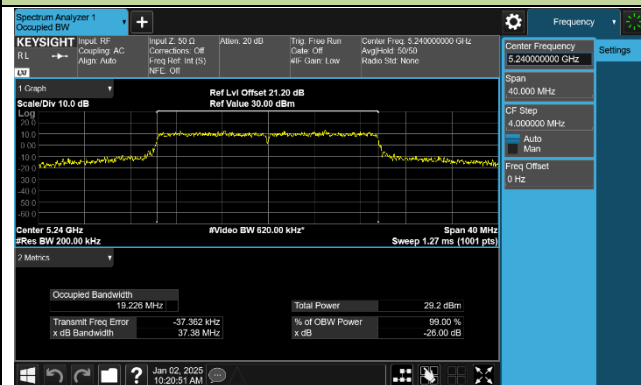
Channel 36 (5180MHz)



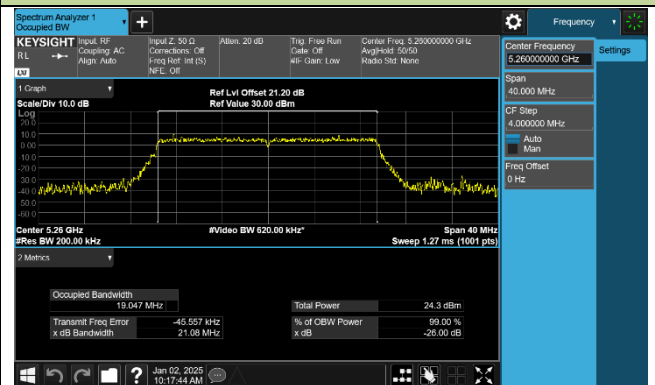
Channel 40 (5200MHz)



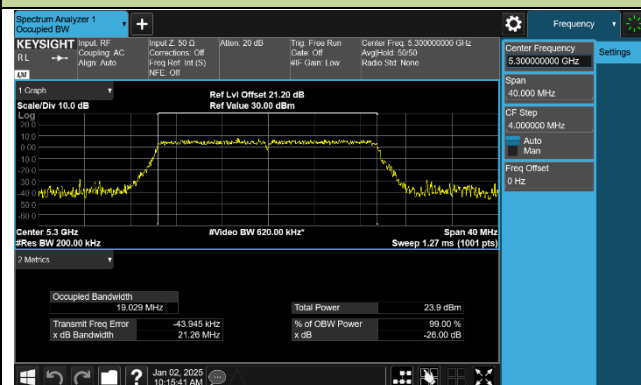
Channel 48 (5240MHz)



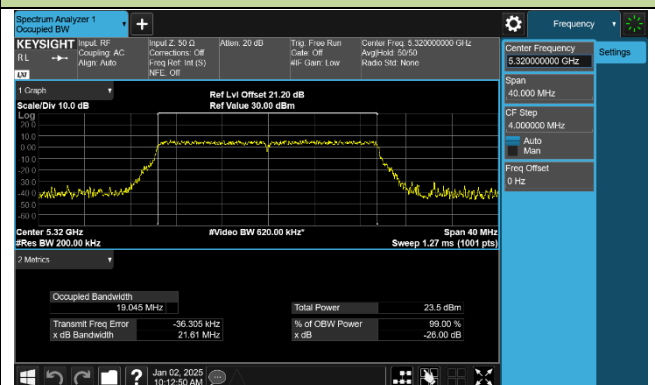
Channel 52 (5260MHz)



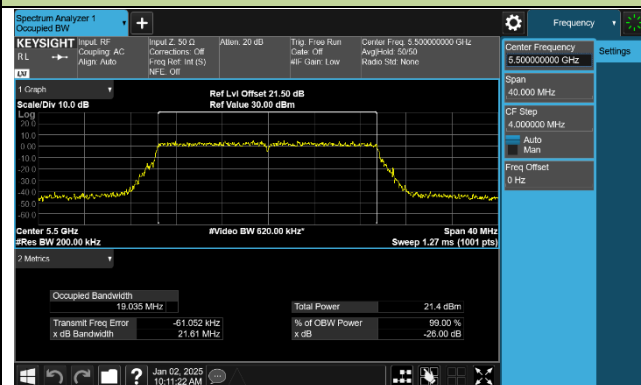
Channel 60 (5300MHz)



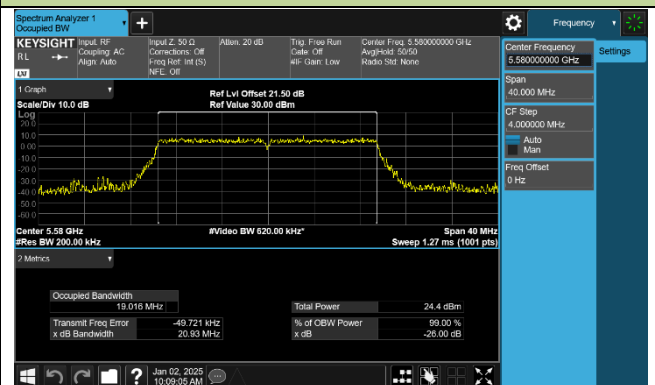
Channel 64 (5320MHz)

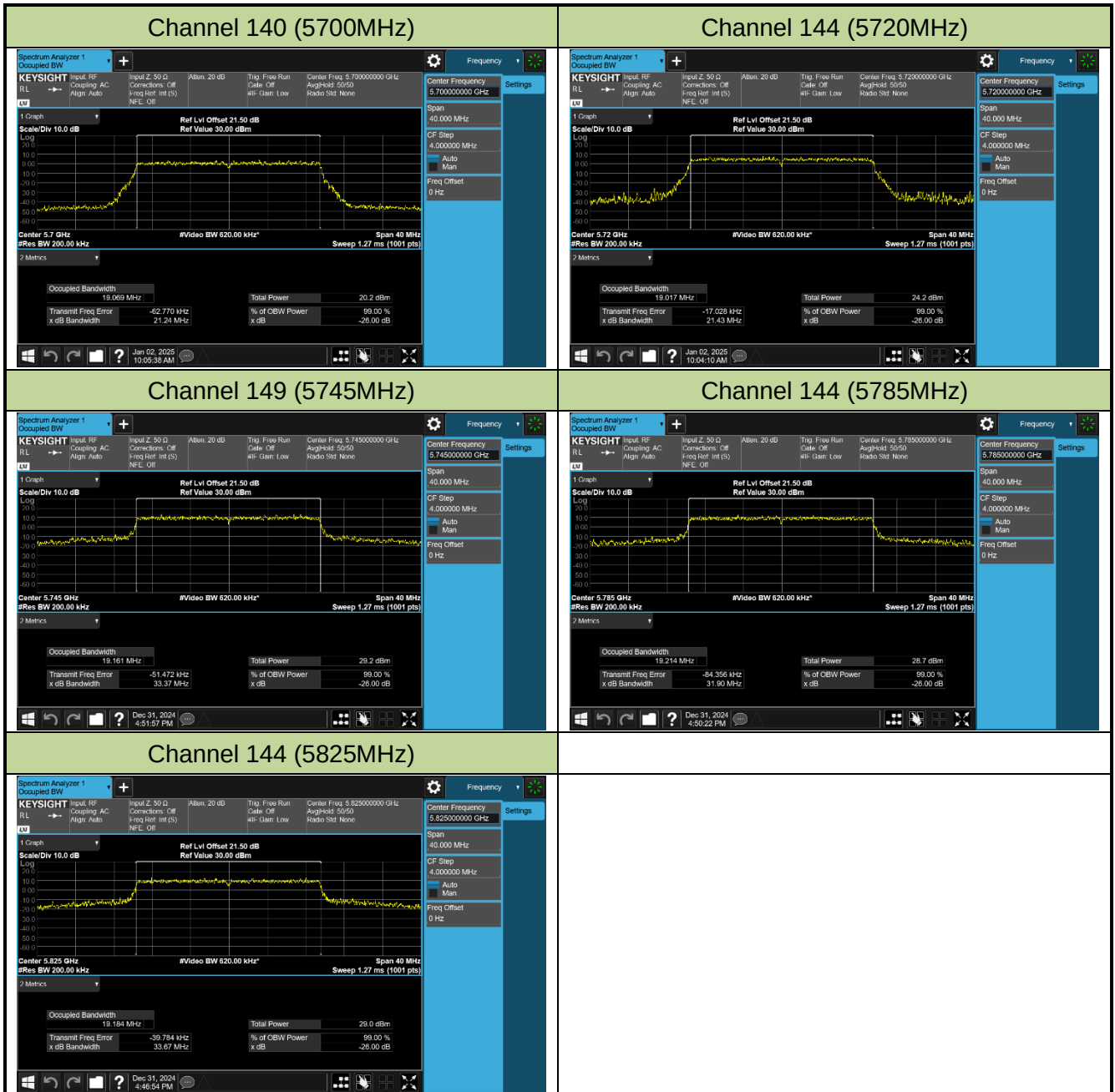


Channel 100 (5500MHz)



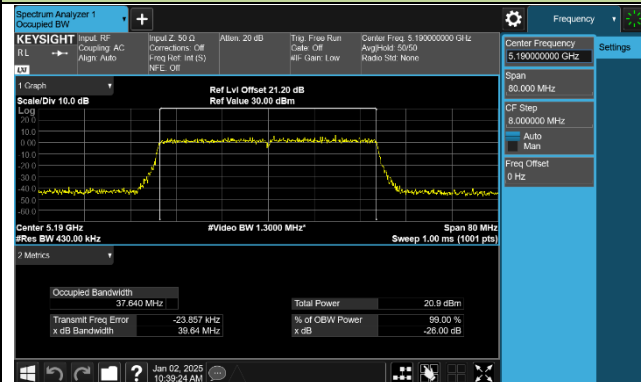
Channel 116 (5580MHz)



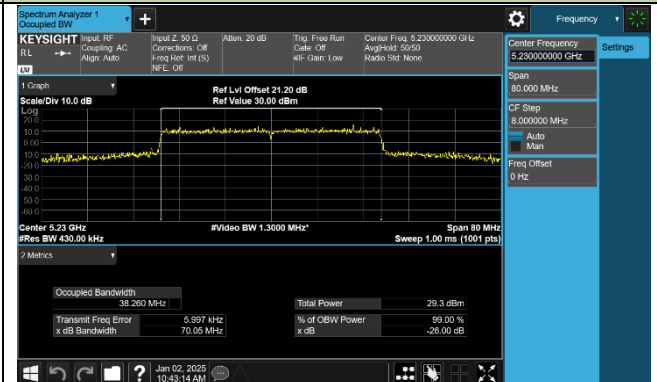


802.11be-EHT40 26dB Bandwidth & 99% Bandwidth

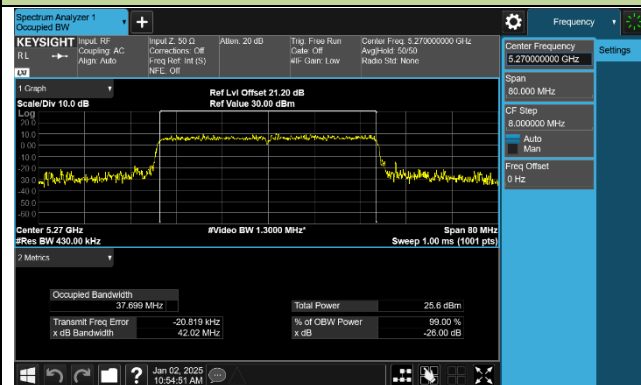
Channel 38 (5190MHz)



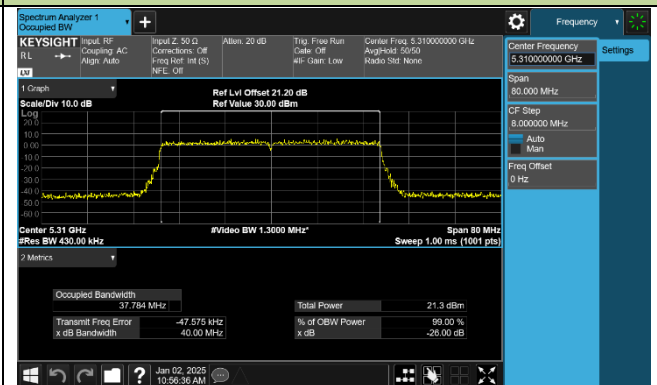
Channel 46 (5230MHz)



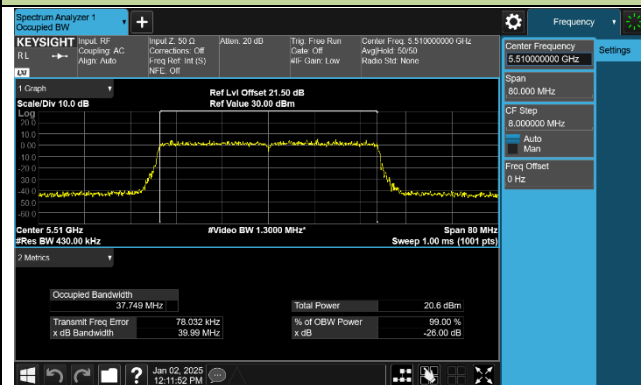
Channel 54 (5270MHz)



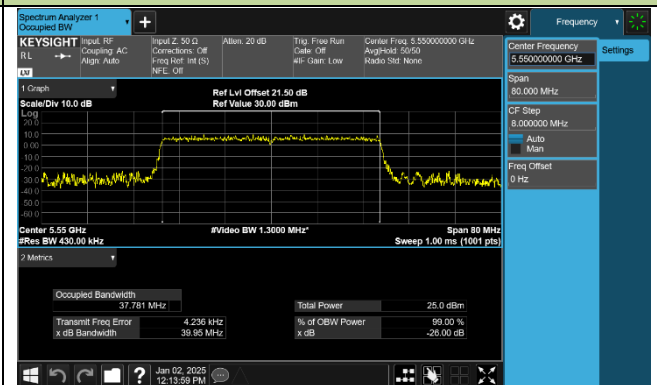
Channel 62 (5310MHz)



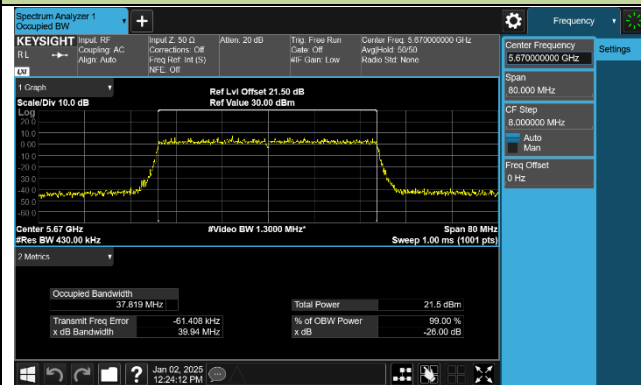
Channel 102 (5510MHz)



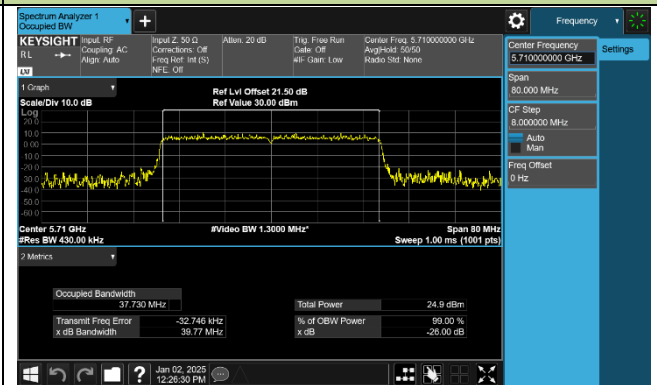
Channel 110 (5550MHz)

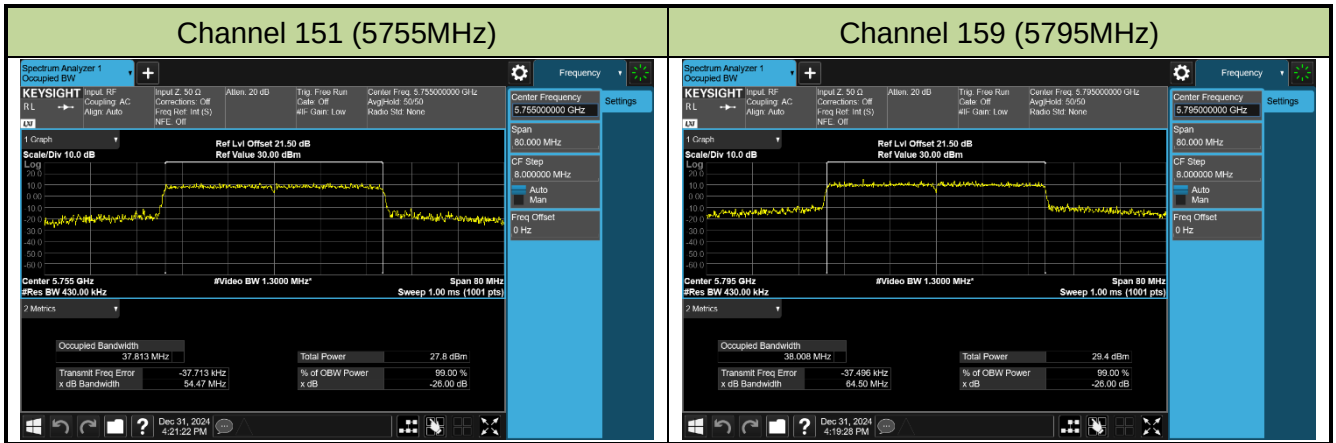


Channel 134 (5670MHz)



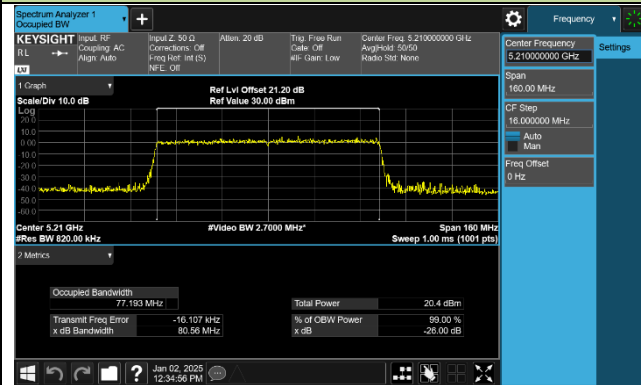
Channel 142 (5710MHz)



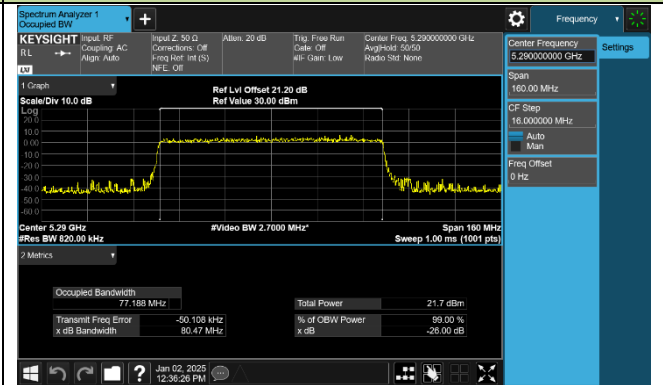


802.11be-EHT80 26dB Bandwidth & 99% Bandwidth

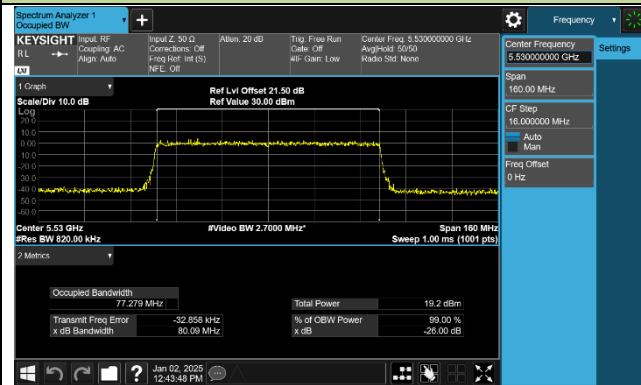
Channel 42 (5210MHz)



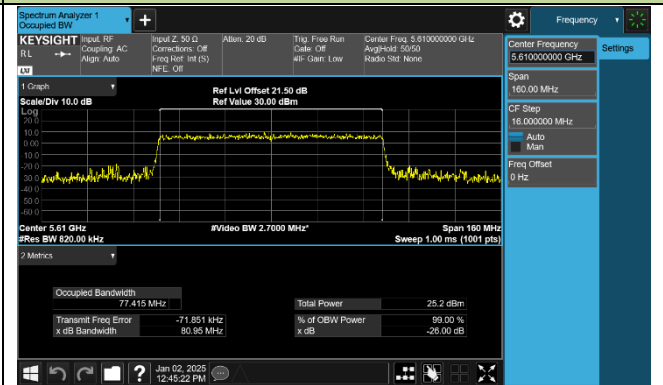
Channel 58 (5290MHz)



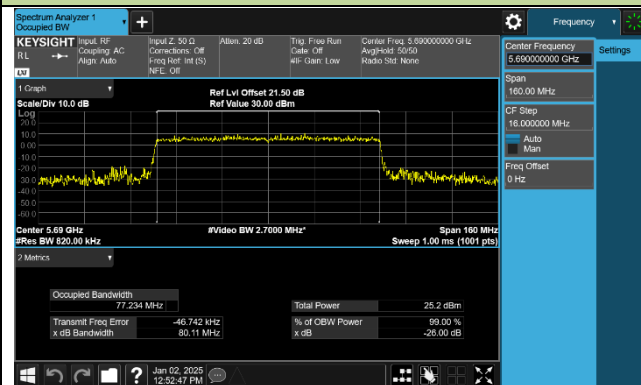
Channel 106 (5530MHz)



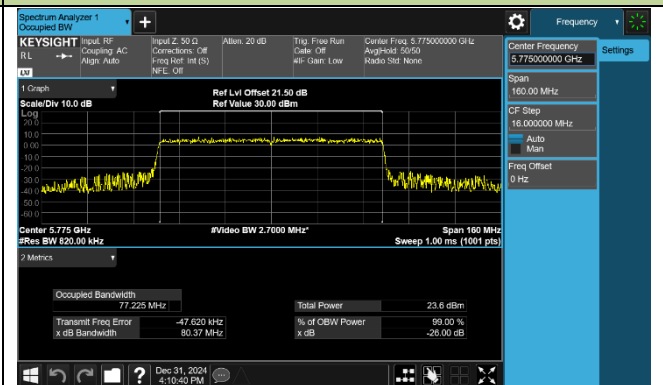
Channel 122 (5610MHz)



Channel 138 (5690MHz)

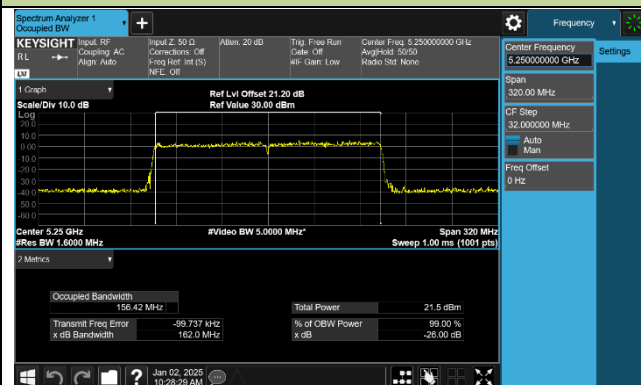


Channel 155 (5775MHz)

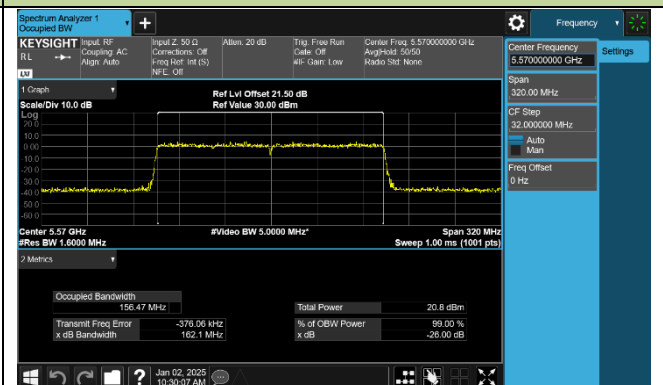


802.11be-EHT160 26dB Bandwidth & 99% Bandwidth

Channel 50 (5250MHz)



Channel 114 (5570MHz)



7.3. 6dB Bandwidth Measurement

7.3.1. Test Limit

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

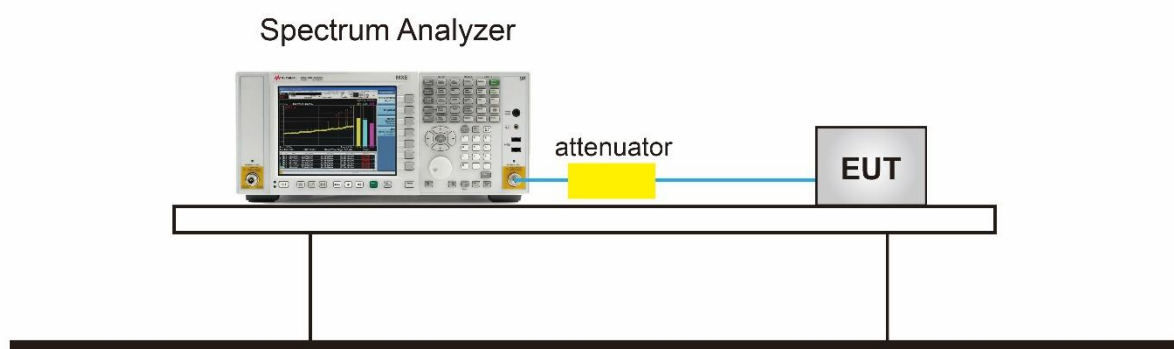
7.3.2. Test Procedure used

KDB 789033 D02v02r01- Section C.2

7.3.3. Test Setting

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

7.3.4. Test Setup



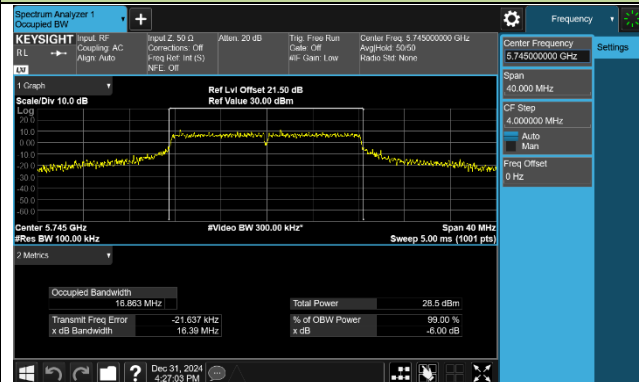
7.3.5.TestResult

Product	BE3600 Wi-Fi 7 Range Extender, BE3200 Wi-Fi 7 Range Extender	Test Engineer	Marvin
Test Site	SR6	Test Date	2024/12/31

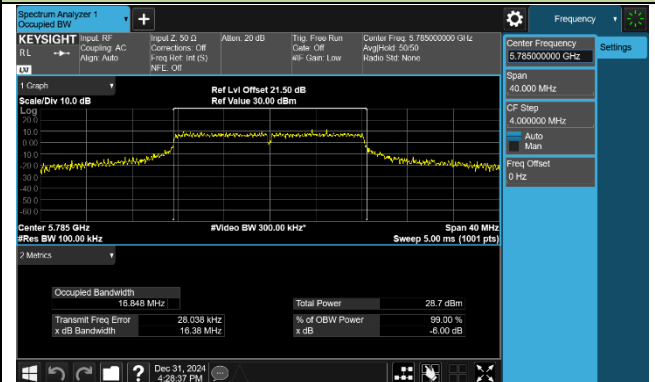
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 1						
802.11a	6Mbps	149	5745	16.390	≥ 0.5	Pass
802.11a	6Mbps	157	5785	16.380	≥ 0.5	Pass
802.11a	6Mbps	165	5825	16.390	≥ 0.5	Pass
802.11ac-VHT20	MCS0	149	5745	17.620	≥ 0.5	Pass
802.11ac-VHT20	MCS0	157	5785	17.620	≥ 0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.650	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	36.410	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	36.430	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	76.460	≥ 0.5	Pass
802.11ax-HE20	MCS0	149	5745	18.980	≥ 0.5	Pass
802.11ax-HE20	MCS0	157	5785	18.990	≥ 0.5	Pass
802.11ax-HE20	MCS0	165	5825	18.950	≥ 0.5	Pass
802.11ax-HE40	MCS0	151	5755	37.590	≥ 0.5	Pass
802.11ax-HE40	MCS0	159	5795	37.580	≥ 0.5	Pass
802.11ax-HE80	MCS0	155	5775	77.850	≥ 0.5	Pass
802.11be-EHT20	MCS0	149	5745	18.930	≥ 0.5	Pass
802.11be-EHT20	MCS0	157	5785	18.920	≥ 0.5	Pass
802.11be-EHT20	MCS0	165	5825	18.970	≥ 0.5	Pass
802.11be-EHT40	MCS0	151	5755	37.630	≥ 0.5	Pass
802.11be-EHT40	MCS0	159	5795	37.350	≥ 0.5	Pass
802.11be-EHT80	MCS0	155	5775	77.790	≥ 0.5	Pass

802.11a 6dB Bandwidth

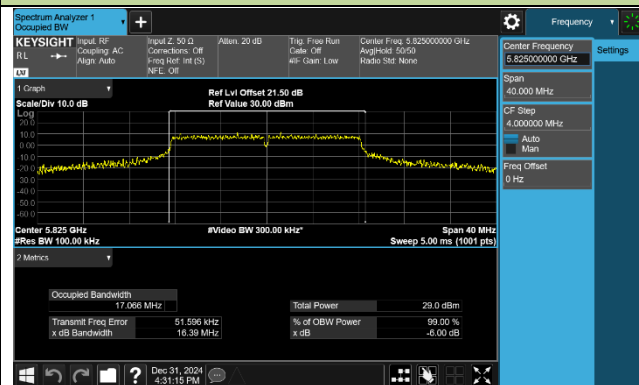
Channel 149 (5745MHz)



Channel 157 (5785MHz)

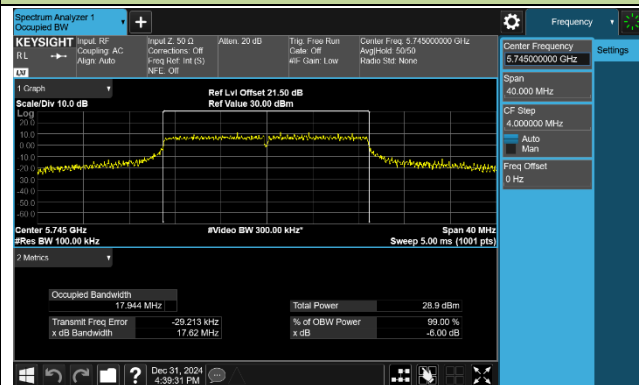


Channel 165 (5825MHz)

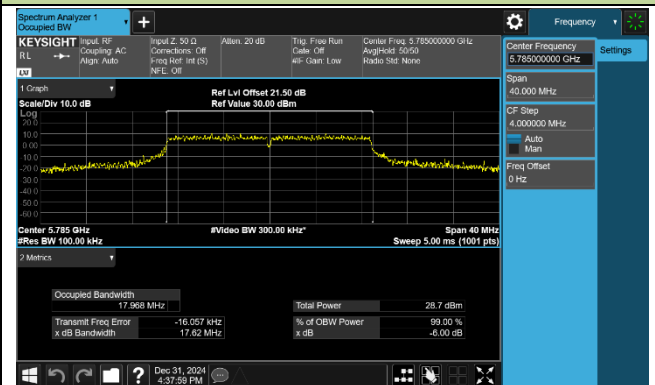


802.11ac-VHT20 6dB Bandwidth

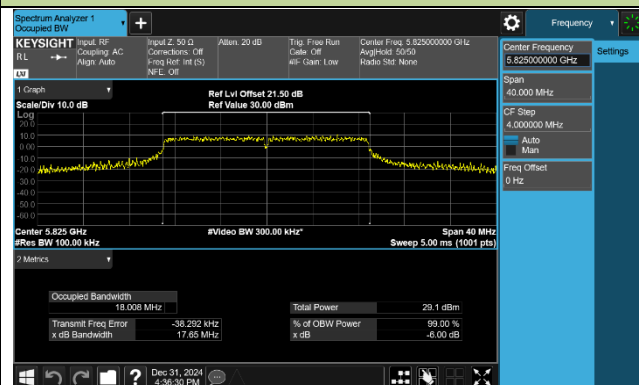
Channel 149 (5745MHz)



Channel 157 (5785MHz)

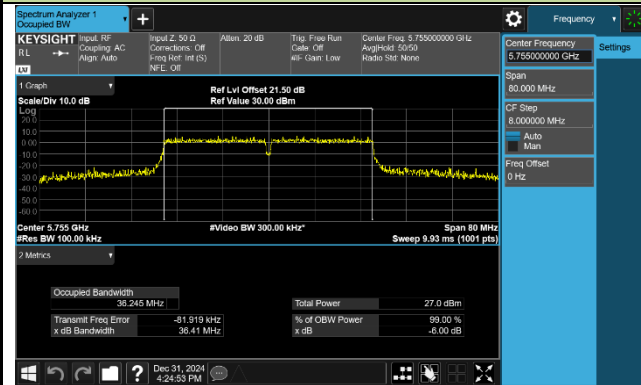


Channel 165 (5825MHz)

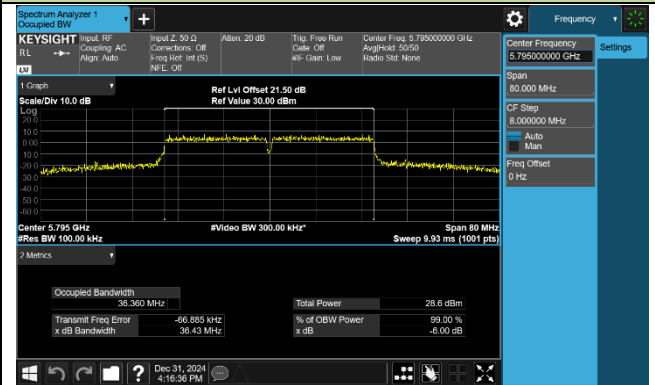


802.11ac-VHT40 6dB Bandwidth

Channel 151 (5755MHz)

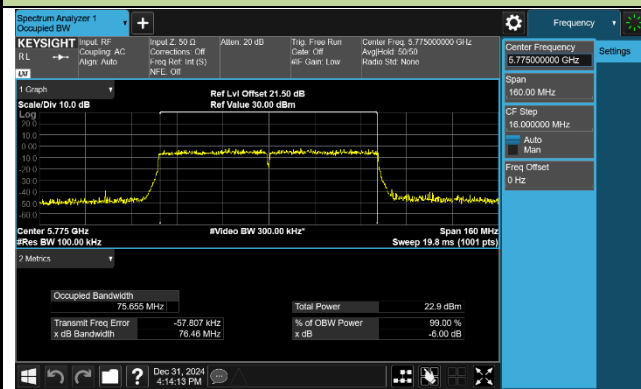


Channel 159 (5795MHz)



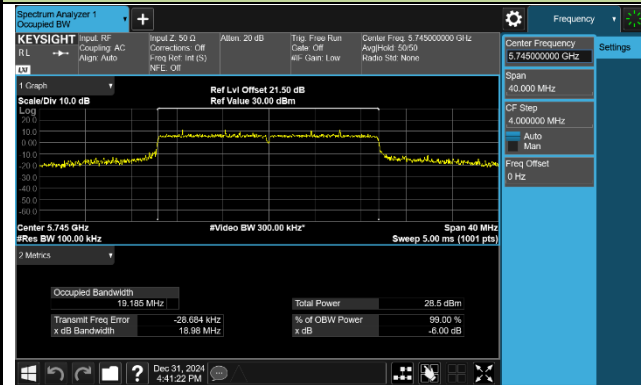
802.11ac-VHT80 6dB Bandwidth

Channel 155 (5775MHz)

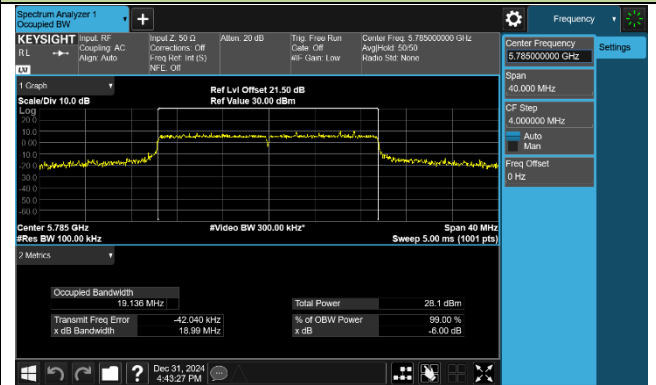


802.11ax-HE20 6dB Bandwidth

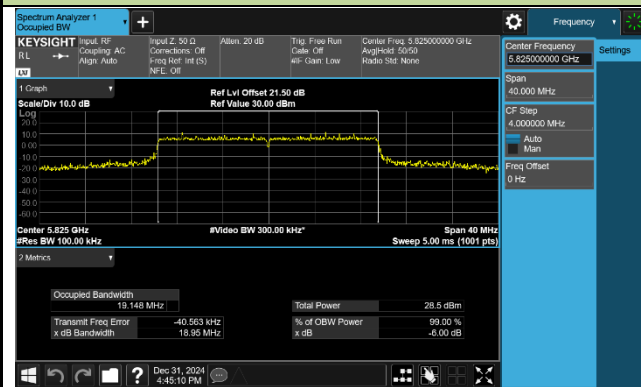
Channel 149 (5745MHz)



Channel 157 (5785MHz)

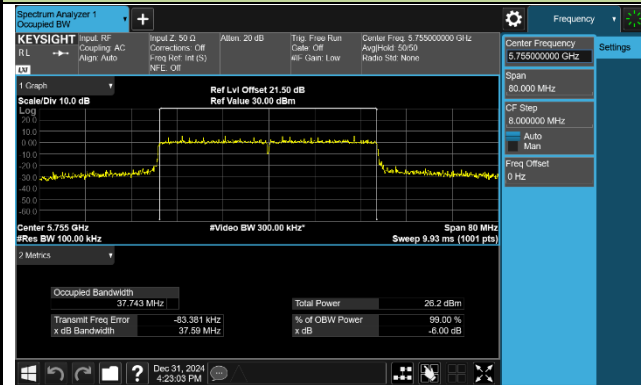


Channel 165 (5825MHz)

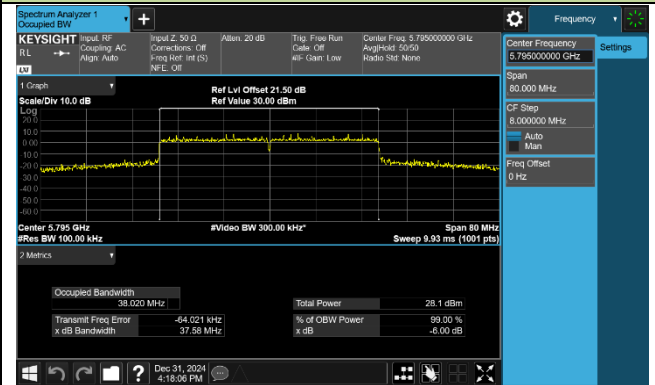


802.11ax-HE40 6dB Bandwidth

Channel 151 (5755MHz)

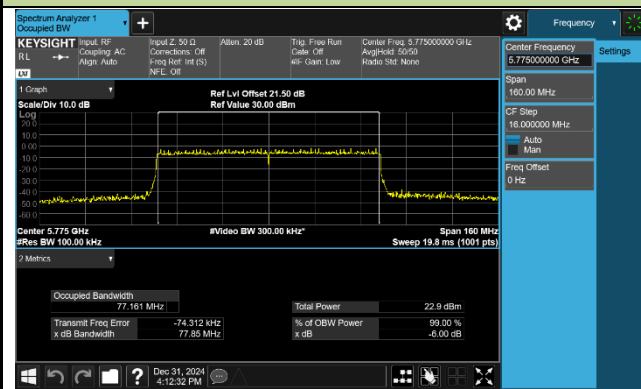


Channel 159 (5795MHz)



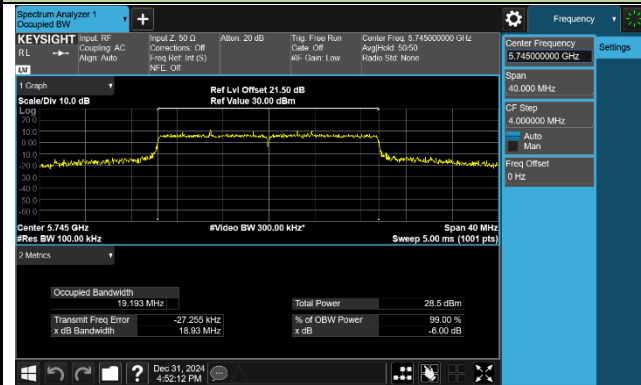
802.11ax-HE80 6dB Bandwidth

Channel 155 (5775MHz)

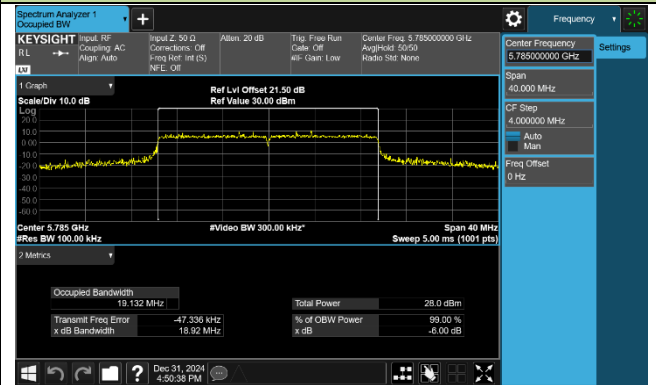


802.11be-EHT20 6dB Bandwidth

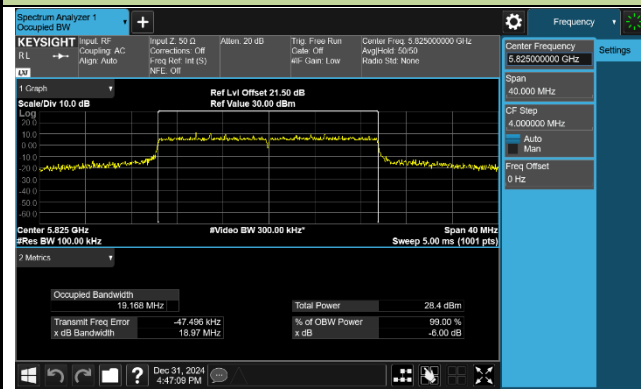
Channel 149 (5745MHz)



Channel 157 (5785MHz)

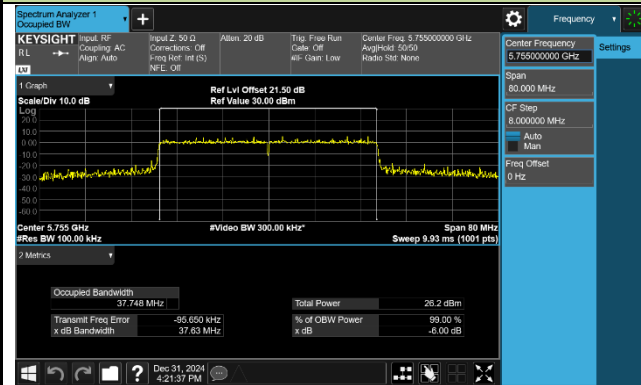


Channel 165 (5825MHz)

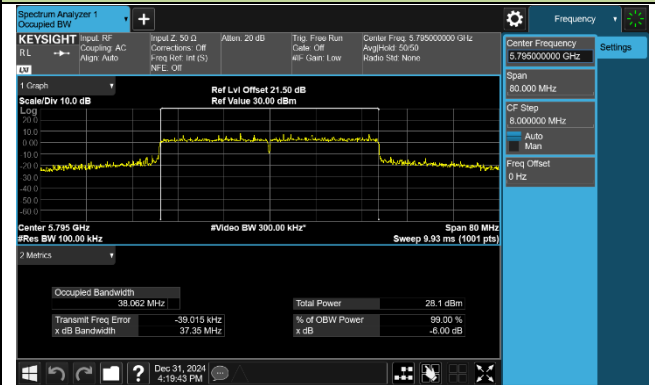


802.11be-EHT40 6dB Bandwidth

Channel 151 (5755MHz)

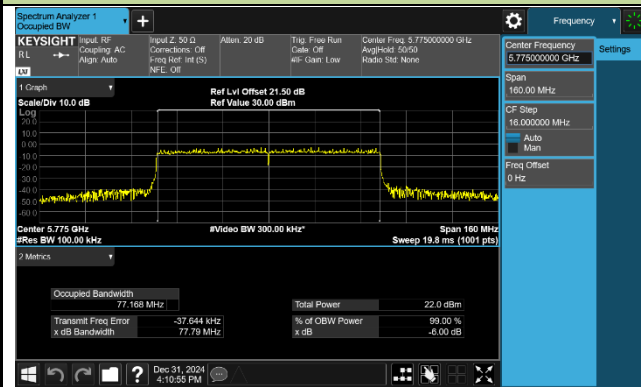


Channel 159 (5795MHz)



802.11be-EHT80 6dB Bandwidth

Channel 155 (5775MHz)



7.4. Output Power Measurement

7.4.1. Test Limit

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

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

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

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

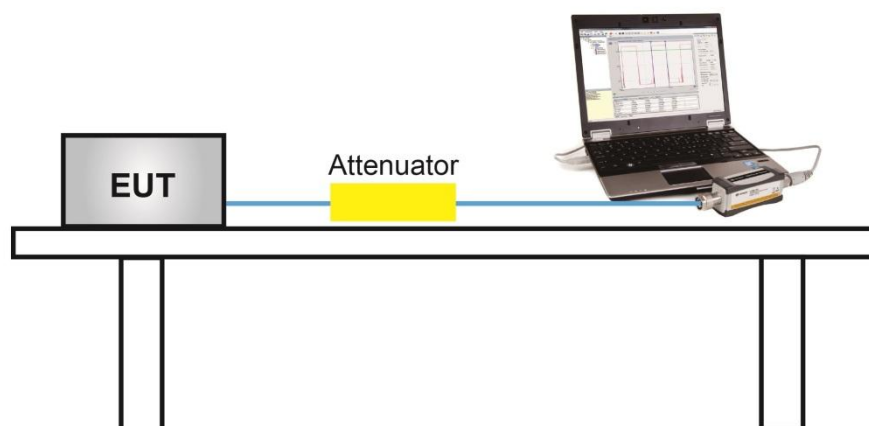
7.4.2. Test Procedure Used

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

7.4.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

7.4.4. Test Setup



7.4.5.Test Result

Product	BE3600 Wi-Fi 7 Range Extender, BE3200 Wi-Fi 7 Range Extender	Test Engineer	Marvin
Test Site	SR6	Test Date	2024/12/20
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	19.33	19.61	22.48	≤ 30.00	Pass
11a	6Mbps	40	5200	24.03	24.64	27.36	≤ 30.00	Pass
11a	6Mbps	48	5240	23.89	24.56	27.25	≤ 30.00	Pass
11a	6Mbps	52	5260	20.37	20.49	23.44	≤ 23.98	Pass
11a	6Mbps	60	5300	20.00	20.24	23.13	≤ 23.98	Pass
11a	6Mbps	64	5320	19.61	20.00	22.82	≤ 23.98	Pass
11a	6Mbps	100	5500	17.24	18.22	20.77	≤ 23.98	Pass
11a	6Mbps	116	5580	19.98	20.86	23.45	≤ 23.98	Pass
11a	6Mbps	140	5700	14.04	15.35	17.75	≤ 23.98	Pass
11a	6Mbps	144	5720	19.35	20.11	22.76	≤22.96	Pass
11a	6Mbps	149	5745	23.53	24.84	27.24	≤ 30.00	Pass
11a	6Mbps	157	5785	23.58	24.66	27.16	≤ 30.00	Pass
11a	6Mbps	165	5825	23.60	24.64	27.16	≤ 30.00	Pass
11ac-VHT20	MCS0	36	5180	19.95	20.38	23.18	≤ 30.00	Pass
11ac-VHT20	MCS0	40	5200	24.00	24.52	27.28	≤ 30.00	Pass
11ac-VHT20	MCS0	48	5240	23.84	24.39	27.13	≤ 30.00	Pass
11ac-VHT20	MCS0	52	5260	20.91	20.94	23.94	≤ 23.98	Pass
11ac-VHT20	MCS0	60	5300	20.53	20.59	23.57	≤ 23.98	Pass
11ac-VHT20	MCS0	64	5320	19.33	19.71	22.53	≤ 23.98	Pass
11ac-VHT20	MCS0	100	5500	16.70	17.40	20.07	≤ 23.98	Pass
11ac-VHT20	MCS0	116	5580	20.36	21.03	23.72	≤ 23.98	Pass
11ac-VHT20	MCS0	140	5700	20.45	21.23	23.87	≤ 23.98	Pass
11ac-VHT20	MCS0	144	5720	19.65	20.10	22.89	≤22.92	Pass
11ac-VHT20	MCS0	149	5745	23.60	24.77	27.23	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	23.69	24.74	27.26	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	23.61	24.65	27.17	≤ 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
11ac-VHT40	MCS0	38	5190	16.50	17.07	19.80	≤ 30.00	Pass
11ac-VHT40	MCS0	46	5230	23.97	24.42	27.21	≤ 30.00	Pass
11ac-VHT40	MCS0	54	5270	20.51	21.18	23.87	≤ 23.98	Pass
11ac-VHT40	MCS0	62	5310	15.65	16.00	18.84	≤ 23.98	Pass
11ac-VHT40	MCS0	102	5510	16.00	16.51	19.27	≤ 23.98	Pass
11ac-VHT40	MCS0	110	5550	20.61	20.74	23.69	≤ 23.98	Pass
11ac-VHT40	MCS0	134	5670	17.80	17.97	20.90	≤23.98	Pass
11ac-VHT40	MCS0	142	5710	20.82	20.67	23.76	≤23.98	Pass
11ac-VHT40	MCS0	151	5755	22.25	23.34	25.84	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	23.56	24.72	27.19	≤ 30.00	Pass
11ac-VHT80	MCS0	42	5210	18.00	18.10	21.06	≤ 30.00	Pass
11ac-VHT80	MCS0	58	5290	16.88	17.26	20.08	≤ 23.98	Pass
11ac-VHT80	MCS0	106	5530	16.31	16.33	19.33	≤ 23.98	Pass
11ac-VHT80	MCS0	122	5610	20.68	21.02	23.86	≤ 23.98	Pass
11ac-VHT80	MCS0	138	5690	20.67	20.86	23.78	≤ 23.98	Pass
11ac-VHT80	MCS0	155	5775	18.66	19.47	22.09	≤ 30.00	Pass
11ac-VHT160	MCS0	50	5250	14.55	15.67	18.16	≤ 23.98	Pass
11ac-VHT160	MCS0	114	5570	15.90	16.26	19.09	≤ 23.98	Pass
11ax-HE20	MCS0	36	5180	18.26	18.77	21.53	≤ 30.00	Pass
11ax-HE20	MCS0	40	5200	24.17	24.66	27.43	≤ 30.00	Pass
11ax-HE20	MCS0	48	5240	23.98	24.62	27.32	≤ 30.00	Pass
11ax-HE20	MCS0	52	5260	20.34	20.86	23.62	≤ 23.98	Pass
11ax-HE20	MCS0	60	5300	20.77	20.96	23.88	≤ 23.98	Pass
11ax-HE20	MCS0	64	5320	19.35	19.45	22.41	≤ 23.98	Pass
11ax-HE20	MCS0	100	5500	16.50	17.18	19.86	≤ 23.98	Pass
11ax-HE20	MCS0	116	5580	20.25	20.71	23.50	≤ 23.98	Pass
11ax-HE20	MCS0	140	5700	14.80	15.88	18.38	≤ 23.98	Pass
11ax-HE20	MCS0	144	5720	19.56	20.24	22.92	≤ 22.99	Pass
11ax-HE20	MCS0	149	5745	23.68	24.99	27.39	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	23.59	24.52	27.09	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	23.43	24.66	27.10	≤ 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
11ax-HE40	MCS0	38	5190	16.32	16.80	19.58	≤ 30.00	Pass
11ax-HE40	MCS0	46	5230	24.13	24.79	27.48	≤ 30.00	Pass
11ax-HE40	MCS0	54	5270	20.43	20.91	23.69	≤ 23.98	Pass
11ax-HE40	MCS0	62	5310	16.94	17.42	20.20	≤ 23.98	Pass
11ax-HE40	MCS0	102	5510	15.55	16.22	18.91	≤ 23.98	Pass
11ax-HE40	MCS0	110	5550	20.65	20.84	23.76	≤ 23.98	Pass
11ax-HE40	MCS0	134	5670	17.74	17.94	20.85	≤ 23.98	Pass
11ax-HE40	MCS0	142	5710	20.96	20.68	23.83	≤ 23.98	Pass
11ax-HE40	MCS0	151	5755	22.32	23.47	25.94	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	23.82	24.83	27.36	≤ 30.00	Pass
11ax-HE80	MCS0	42	5210	17.17	17.23	20.21	≤ 30.00	Pass
11ax-HE80	MCS0	58	5290	16.85	17.35	20.12	≤ 23.98	Pass
11ax-HE80	MCS0	106	5530	15.16	15.33	18.26	≤ 23.98	Pass
11ax-HE80	MCS0	122	5610	20.63	21.08	23.87	≤ 23.98	Pass
11ax-HE80	MCS0	138	5690	20.78	20.86	23.83	≤ 23.98	Pass
11ax-HE80	MCS0	155	5775	19.33	20.35	22.88	≤ 30.00	Pass
11ax-HE160	MCS0	50	5250	16.70	17.43	20.09	≤ 23.98	Pass
11ax-HE160	MCS0	114	5570	16.70	17.13	19.93	≤ 23.98	Pass
11be-EHT20	MCS0	36	5180	18.57	19.22	21.92	≤ 30.00	Pass
11be-EHT20	MCS0	40	5200	24.13	24.66	27.41	≤ 30.00	Pass
11be-EHT20	MCS0	48	5240	23.96	24.61	27.31	≤ 30.00	Pass
11be-EHT20	MCS0	52	5260	20.61	20.65	23.64	≤ 23.98	Pass
11be-EHT20	MCS0	60	5300	20.72	20.77	23.76	≤ 23.98	Pass
11be-EHT20	MCS0	64	5320	20.34	20.40	23.38	≤ 23.98	Pass
11be-EHT20	MCS0	100	5500	16.80	17.47	20.16	≤ 23.98	Pass
11be-EHT20	MCS0	116	5580	20.71	21.15	23.95	≤ 23.98	Pass
11be-EHT20	MCS0	140	5700	15.48	16.36	18.95	≤ 23.98	Pass
11be-EHT20	MCS0	144	5720	19.59	20.27	22.95	≤ 22.96	Pass
11be-EHT20	MCS0	149	5745	23.68	24.95	27.37	≤ 30.00	Pass
11be-EHT20	MCS0	157	5785	23.45	24.58	27.06	≤ 30.00	Pass
11be-EHT20	MCS0	165	5825	23.61	24.53	27.10	≤ 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	16.52	17.06	19.81	≤ 30.00	Pass
11be-EHT40	MCS0	46	5230	24.10	24.71	27.43	≤ 30.00	Pass
11be-EHT40	MCS0	54	5270	20.48	20.77	23.64	≤ 23.98	Pass
11be-EHT40	MCS0	62	5310	16.57	16.92	19.76	≤ 23.98	Pass
11be-EHT40	MCS0	102	5510	15.99	16.58	19.31	≤ 23.98	Pass
11be-EHT40	MCS0	110	5550	20.75	20.60	23.69	≤ 23.98	Pass
11be-EHT40	MCS0	134	5670	16.89	17.30	20.11	≤ 23.98	Pass
11be-EHT40	MCS0	142	5710	20.86	20.32	23.61	≤ 23.98	Pass
11be-EHT40	MCS0	151	5755	22.30	23.44	25.92	≤ 30.00	Pass
11be-EHT40	MCS0	159	5795	23.73	24.63	27.21	≤ 30.00	Pass
11be-EHT80	MCS0	42	5210	16.57	16.84	19.72	≤ 30.00	Pass
11be-EHT80	MCS0	58	5290	17.17	17.44	20.32	≤ 23.98	Pass
11be-EHT80	MCS0	106	5530	15.30	15.35	18.34	≤ 23.98	Pass
11be-EHT80	MCS0	122	5610	20.60	20.98	23.80	≤ 23.98	Pass
11be-EHT80	MCS0	138	5690	20.78	20.90	23.85	≤ 23.98	Pass
11be-EHT80	MCS0	155	5775	18.47	19.42	21.98	≤ 30.00	Pass
11be-EHT160	MCS0	50	5250	16.99	17.76	20.40	≤ 23.98	Pass
11be-EHT160	MCS0	114	5570	17.03	17.00	20.03	≤ 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.

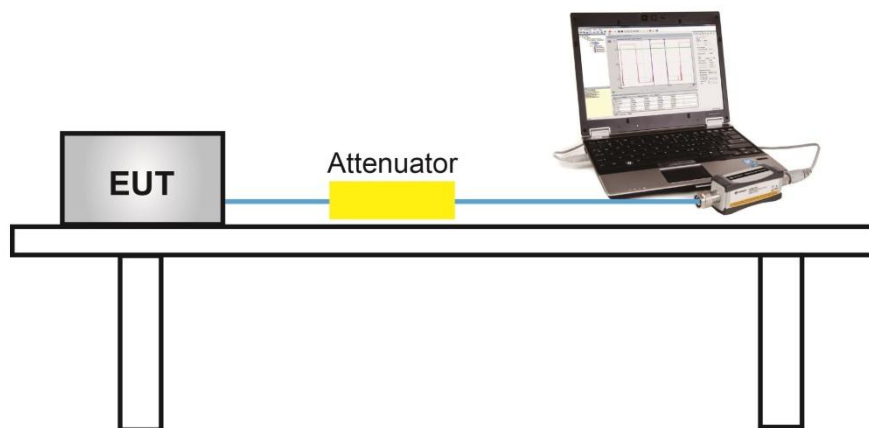
7.5.2. Test Procedure Used

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.

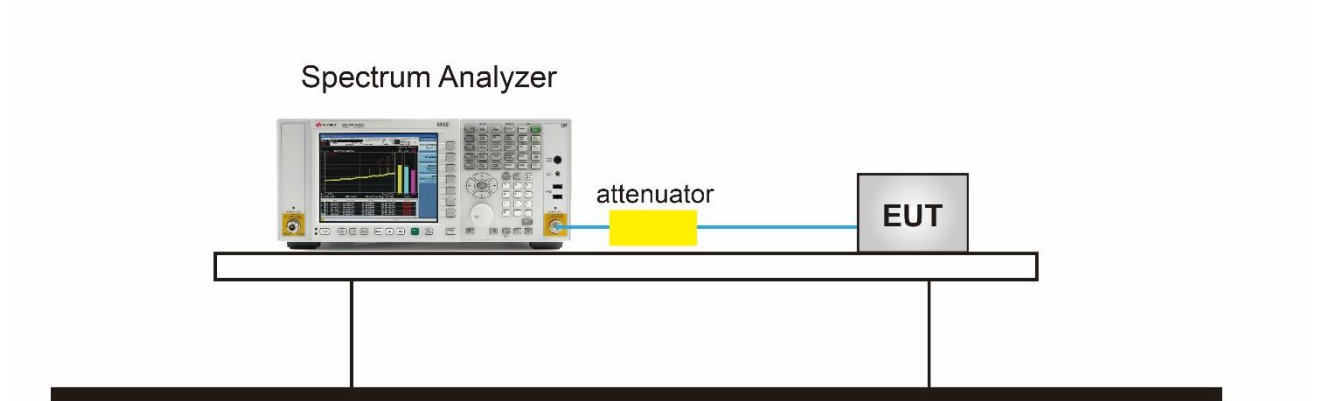
7.6.2. Test Procedure Used

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	BE3600 Wi-Fi 7 Range Extender, BE3200 Wi-Fi 7 Range Extender	Test Engineer	Marvin
Test Site	SR6	Test Date	2024/12/31~2025/1/2
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	7.070	6.581	98.18%	9.922	≤ 16.92	Pass
11a	6Mbps	40	5200	12.341	12.349	98.18%	15.435	≤ 16.92	Pass
11a	6Mbps	48	5240	11.971	12.248	98.18%	15.202	≤ 16.92	Pass
11a	6Mbps	52	5260	8.314	7.380	98.18%	10.962	≤ 11.00	Pass
11a	6Mbps	60	5300	8.354	7.192	98.18%	10.902	≤ 11.00	Pass
11a	6Mbps	64	5320	7.896	7.867	98.18%	10.972	≤ 11.00	Pass
11a	6Mbps	100	5500	5.406	5.915	98.18%	8.758	≤ 11.00	Pass
11a	6Mbps	116	5580	8.145	7.552	98.18%	10.949	≤ 11.00	Pass
11a	6Mbps	140	5700	2.444	2.945	98.18%	5.792	≤ 11.00	Pass
11a	6Mbps	144	5720	8.119	7.347	98.18%	10.840	≤ 11.00	Pass
11ac-VHT20	MCS0	36	5180	7.248	7.556	98.80%	10.467	≤ 16.92	Pass
11ac-VHT20	MCS0	40	5200	11.946	12.039	98.80%	15.055	≤ 16.92	Pass
11ac-VHT20	MCS0	48	5240	11.785	12.402	98.80%	15.167	≤ 16.92	Pass
11ac-VHT20	MCS0	52	5260	8.323	7.375	98.80%	10.938	≤ 11.00	Pass
11ac-VHT20	MCS0	60	5300	8.639	6.897	98.80%	10.917	≤ 11.00	Pass
11ac-VHT20	MCS0	64	5320	7.309	7.367	98.80%	10.401	≤ 11.00	Pass
11ac-VHT20	MCS0	100	5500	4.324	4.800	98.80%	7.631	≤ 11.00	Pass
11ac-VHT20	MCS0	116	5580	7.844	7.686	98.80%	10.828	≤ 11.00	Pass
11ac-VHT20	MCS0	140	5700	8.199	7.263	98.80%	10.819	≤ 11.00	Pass
11ac-VHT20	MCS0	144	5720	8.108	7.356	98.80%	10.811	≤ 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-VHT40	MCS0	38	5190	1.034	1.362	98.86%	4.261	≤ 16.92	Pass
11ac-VHT40	MCS0	46	5230	9.073	9.433	98.86%	12.317	≤ 16.92	Pass
11ac-VHT40	MCS0	54	5270	5.689	6.140	98.86%	8.980	≤ 11.00	Pass
11ac-VHT40	MCS0	62	5310	0.785	0.863	98.86%	3.884	≤ 11.00	Pass
11ac-VHT40	MCS0	102	5510	0.795	1.060	98.86%	3.990	≤ 11.00	Pass
11ac-VHT40	MCS0	110	5550	5.076	5.403	98.86%	8.303	≤ 11.00	Pass
11ac-VHT40	MCS0	134	5670	2.763	2.777	98.86%	5.830	≤ 11.00	Pass
11ac-VHT40	MCS0	142	5710	5.712	5.381	98.86%	8.610	≤ 11.00	Pass
11ac-VHT80	MCS0	42	5210	-0.104	-0.371	98.07%	2.859	≤ 16.92	Pass
11ac-VHT80	MCS0	58	5290	-0.885	-0.868	98.07%	2.218	≤ 11.00	Pass
11ac-VHT80	MCS0	106	5530	-1.967	-2.122	98.07%	1.051	≤ 11.00	Pass
11ac-VHT80	MCS0	122	5610	2.284	2.839	98.07%	5.665	≤ 11.00	Pass
11ac-VHT80	MCS0	138	5690	2.399	2.789	98.07%	5.693	≤ 11.00	Pass
11ac-VHT160	MCS0	50	5250	-5.976	-5.303	98.06%	-2.531	≤ 11.00	Pass
11ac-VHT160	MCS0	114	5570	-5.389	-5.122	98.06%	-2.158	≤ 11.00	Pass
11ax-HE20	MCS0	36	5180	5.399	5.795	98.50%	8.677	≤ 16.92	Pass
11ax-HE20	MCS0	40	5200	11.741	12.273	98.50%	15.091	≤ 16.92	Pass
11ax-HE20	MCS0	48	5240	12.031	12.403	98.50%	15.297	≤ 16.92	Pass
11ax-HE20	MCS0	52	5260	8.417	7.361	98.50%	10.997	≤ 11.00	Pass
11ax-HE20	MCS0	60	5300	8.546	7.172	98.50%	10.989	≤ 11.00	Pass
11ax-HE20	MCS0	64	5320	7.059	7.128	98.50%	10.170	≤ 11.00	Pass
11ax-HE20	MCS0	100	5500	4.021	4.619	98.50%	7.406	≤ 11.00	Pass
11ax-HE20	MCS0	116	5580	7.411	7.592	98.50%	10.578	≤ 11.00	Pass
11ax-HE20	MCS0	140	5700	2.701	3.012	98.50%	5.935	≤ 11.00	Pass
11ax-HE20	MCS0	144	5720	8.070	7.656	98.50%	10.944	≤ 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
11ax-HE40	MCS0	38	5190	0.552	0.871	98.34%	3.797	≤ 16.92	Pass
11ax-HE40	MCS0	46	5230	9.358	9.530	98.34%	12.528	≤ 16.92	Pass
11ax-HE40	MCS0	54	5270	5.397	5.656	98.34%	8.611	≤ 11.00	Pass
11ax-HE40	MCS0	62	5310	1.708	2.102	98.34%	4.992	≤ 11.00	Pass
11ax-HE40	MCS0	102	5510	-0.157	0.630	98.34%	3.337	≤ 11.00	Pass
11ax-HE40	MCS0	110	5550	5.063	5.275	98.34%	8.253	≤ 11.00	Pass
11ax-HE40	MCS0	134	5670	2.391	2.389	98.34%	5.473	≤ 11.00	Pass
11ax-HE40	MCS0	142	5710	5.805	5.516	98.34%	8.746	≤ 11.00	Pass
11ax-HE80	MCS0	42	5210	-1.149	-1.542	98.41%	1.739	≤ 16.92	Pass
11ax-HE80	MCS0	58	5290	-1.138	-0.859	98.41%	2.084	≤ 11.00	Pass
11ax-HE80	MCS0	106	5530	-3.059	-3.544	98.41%	-0.215	≤ 11.00	Pass
11ax-HE80	MCS0	122	5610	1.861	2.647	98.41%	5.352	≤ 11.00	Pass
11ax-HE80	MCS0	138	5690	2.387	2.792	98.41%	5.674	≤ 11.00	Pass
11ax-HE160	MCS0	50	5250	-3.817	-3.086	98.52%	-0.361	≤ 11.00	Pass
11ax-HE160	MCS0	114	5570	-4.091	-4.297	98.52%	-1.118	≤ 11.00	Pass
11be-EHT20	MCS0	36	5180	5.861	6.535	98.35%	9.294	≤ 16.92	Pass
11be-EHT20	MCS0	40	5200	11.708	12.169	98.35%	15.027	≤ 16.92	Pass
11be-EHT20	MCS0	48	5240	11.990	12.487	98.35%	15.328	≤ 16.92	Pass
11be-EHT20	MCS0	52	5260	7.984	7.302	98.35%	10.739	≤ 11.00	Pass
11be-EHT20	MCS0	60	5300	8.567	7.127	98.35%	10.989	≤ 11.00	Pass
11be-EHT20	MCS0	64	5320	8.237	6.941	98.35%	10.720	≤ 11.00	Pass
11be-EHT20	MCS0	100	5500	4.311	4.615	98.35%	7.548	≤ 11.00	Pass
11be-EHT20	MCS0	116	5580	8.056	7.316	98.35%	10.784	≤ 11.00	Pass
11be-EHT20	MCS0	140	5700	3.198	3.421	98.35%	6.393	≤ 11.00	Pass
11be-EHT20	MCS0	144	5720	7.964	7.752	98.35%	10.942	≤ 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-EHT40	MCS0	38	5190	0.644	0.986	98.33%	3.902	≤ 16.92	Pass
11be-EHT40	MCS0	46	5230	9.144	9.597	98.33%	12.460	≤ 16.92	Pass
11be-EHT40	MCS0	54	5270	5.448	5.867	98.33%	8.746	≤ 11.00	Pass
11be-EHT40	MCS0	62	5310	1.134	1.626	98.33%	4.470	≤ 11.00	Pass
11be-EHT40	MCS0	102	5510	0.510	0.908	98.33%	3.797	≤ 11.00	Pass
11be-EHT40	MCS0	110	5550	4.956	5.330	98.33%	8.230	≤ 11.00	Pass
11be-EHT40	MCS0	134	5670	1.930	1.592	98.33%	4.848	≤ 11.00	Pass
11be-EHT40	MCS0	142	5710	5.250	5.182	98.33%	8.300	≤ 11.00	Pass
11be-EHT80	MCS0	42	5210	-1.982	-1.915	98.41%	1.132	≤ 16.92	Pass
11be-EHT80	MCS0	58	5290	-0.801	-0.514	98.41%	2.425	≤ 11.00	Pass
11be-EHT80	MCS0	106	5530	-3.080	-3.452	98.41%	-0.182	≤ 11.00	Pass
11be-EHT80	MCS0	122	5610	2.218	2.630	98.41%	5.509	≤ 11.00	Pass
11be-EHT80	MCS0	138	5690	2.779	2.594	98.41%	5.767	≤ 11.00	Pass
11be-EHT160	MCS0	50	5250	-3.508	-2.832	98.51%	-0.081	≤ 11.00	Pass
11be-EHT160	MCS0	114	5570	-4.173	-3.978	98.51%	-0.999	≤ 11.00	Pass

Note 1: 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) = 17 - (6.08 - 6) = 16.92dBm/MHz.

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

Product	BE3600 Wi-Fi 7 Range Extender, BE3200 Wi-Fi 7 Range Extender	Test Engineer	Marvin
Test Site	SR6	Test Date	2024/12/31~2025/1/2
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	8.733	9.863	98.18%	12.425	≤ 29.98	Pass
11a	6Mbps	157	5785	9.099	9.934	98.18%	12.627	≤ 29.98	Pass
11a	6Mbps	165	5825	9.045	10.178	98.18%	12.738	≤ 29.98	Pass
11ac-VHT20	MCS0	149	5745	8.455	9.582	98.80%	12.118	≤ 29.98	Pass
11ac-VHT20	MCS0	157	5785	8.737	9.556	98.80%	12.229	≤ 29.98	Pass
11ac-VHT20	MCS0	165	5825	9.330	9.699	98.80%	12.581	≤ 29.98	Pass
11ac-VHT40	MCS0	151	5755	4.444	5.341	98.86%	7.976	≤ 29.98	Pass
11ac-VHT40	MCS0	159	5795	5.663	6.640	98.86%	9.239	≤ 29.98	Pass
11ac-VHT80	MCS0	155	5775	-1.844	-1.346	98.07%	1.507	≤ 29.98	Pass
11ax-HE20	MCS0	149	5745	8.544	9.639	98.50%	12.202	≤ 29.98	Pass
11ax-HE20	MCS0	157	5785	8.734	9.245	98.50%	12.073	≤ 29.98	Pass
11ax-HE20	MCS0	165	5825	8.660	9.417	98.50%	12.131	≤ 29.98	Pass
11ax-HE40	MCS0	151	5755	4.424	5.285	98.34%	7.959	≤ 29.98	Pass
11ax-HE40	MCS0	159	5795	6.192	6.972	98.34%	9.682	≤ 29.98	Pass
11ax-HE80	MCS0	155	5775	-1.599	-0.507	98.41%	2.061	≤ 29.98	Pass
11be-EHT20	MCS0	149	5745	8.774	9.687	98.35%	12.337	≤ 29.98	Pass
11be-EHT20	MCS0	157	5785	8.509	9.119	98.35%	11.907	≤ 29.98	Pass
11be-EHT20	MCS0	165	5825	8.753	9.303	98.35%	12.119	≤ 29.98	Pass
11be-EHT40	MCS0	151	5755	4.336	5.445	98.33%	8.009	≤ 29.98	Pass
11be-EHT40	MCS0	159	5795	6.048	6.740	98.33%	9.491	≤ 29.98	Pass
11be-EHT80	MCS0	155	5775	-2.046	-1.849	98.41%	1.134	≤ 29.98	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) + $10 \cdot \log (1/\text{Duty Cycle})$.

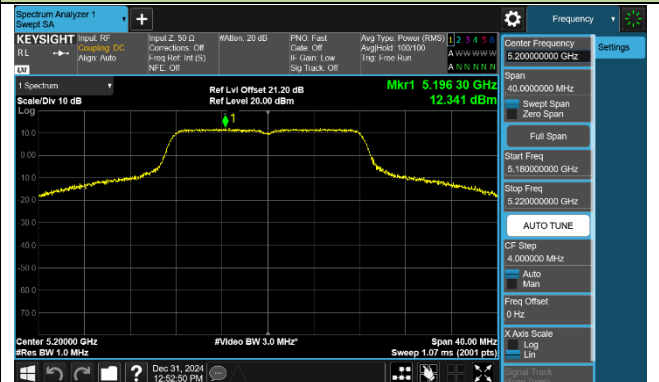
Note 2: PSD Limit (dBm/500kHz) = $30 - (6.02 - 6) = 29.98$ (dBm/500kHz).

802.11a Power Spectral Density - Ant 0

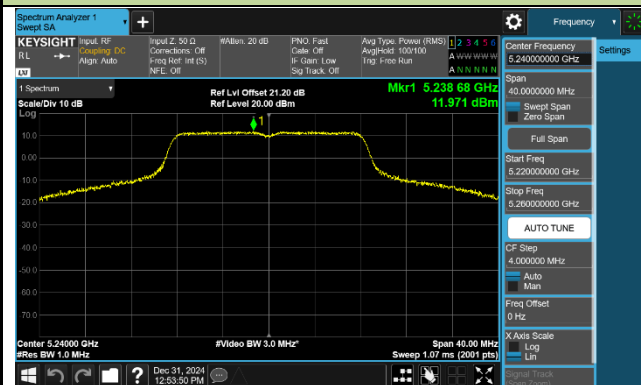
Channel 36 (5180MHz)



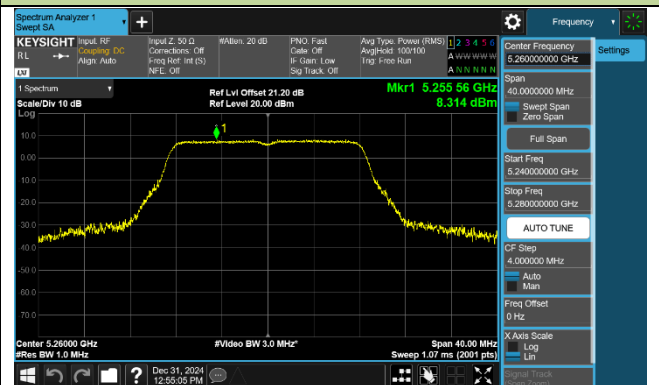
Channel 40 (5200MHz)



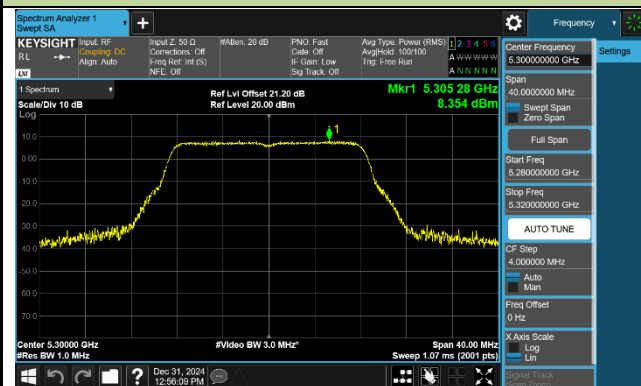
Channel 48 (5240MHz)



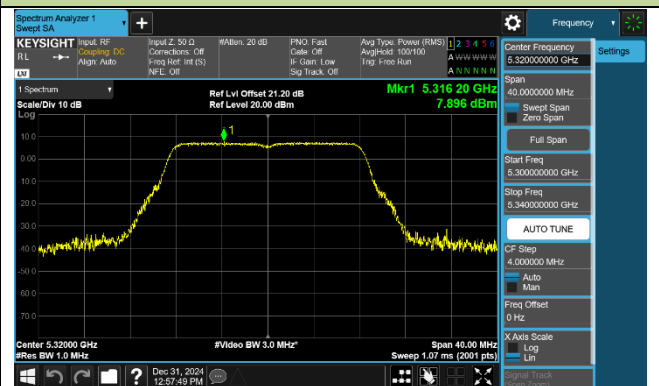
Channel 52 (5260MHz)



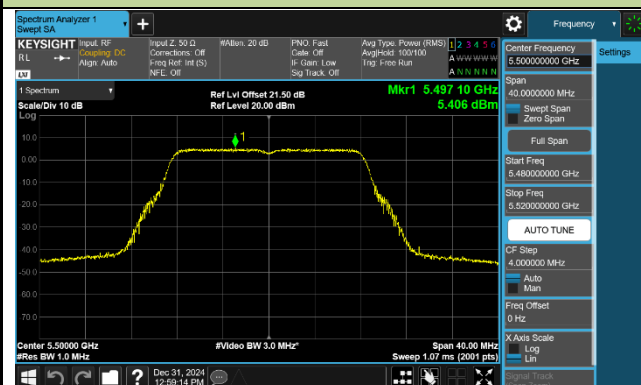
Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)

