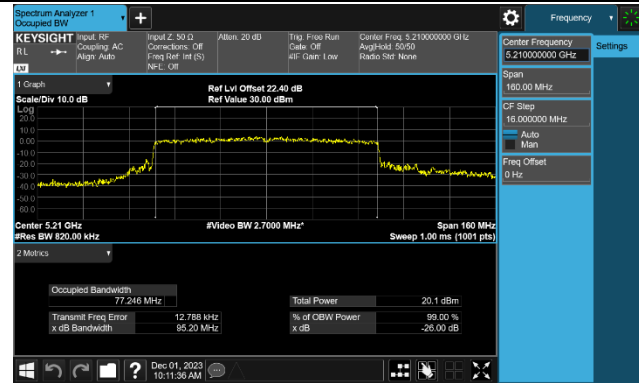
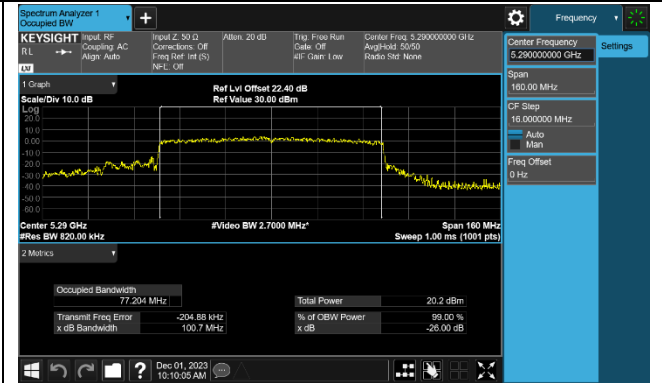


802.11ax-HE80 26dB Bandwidth & 99% Bandwidth

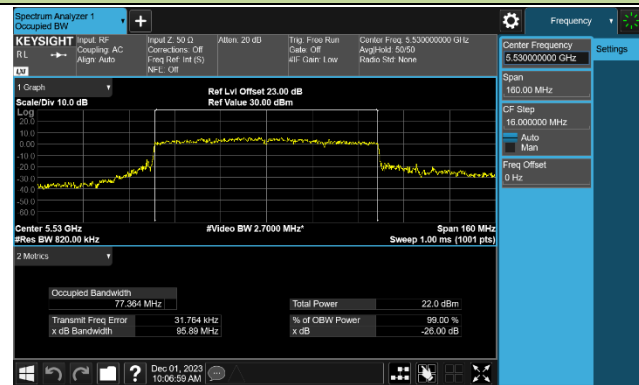
Channel 42 (5210MHz)



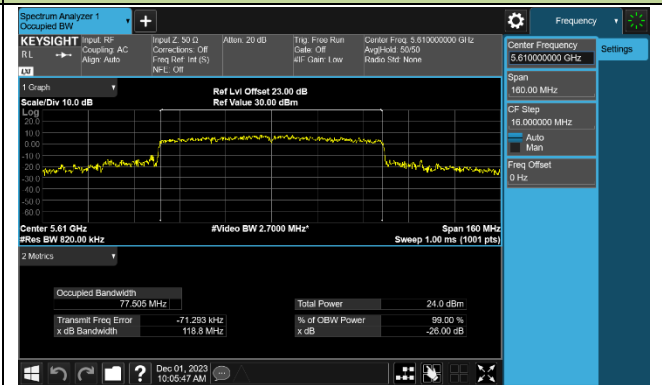
Channel 58 (5290MHz)



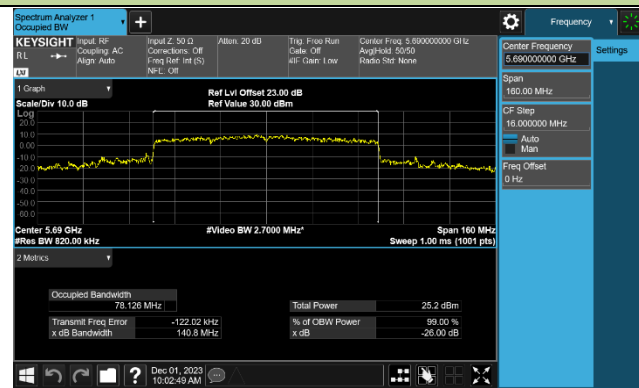
Channel 106 (5530MHz)



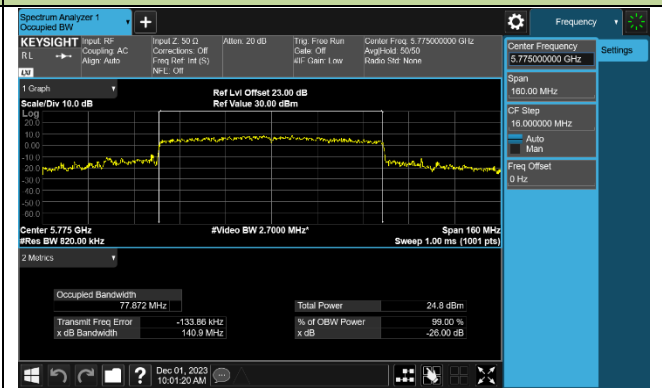
Channel 122 (5610MHz)



Channel 138 (5690MHz)

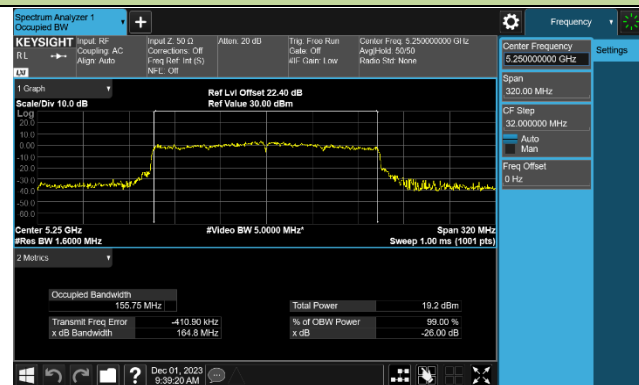


Channel 155 (5775MHz)

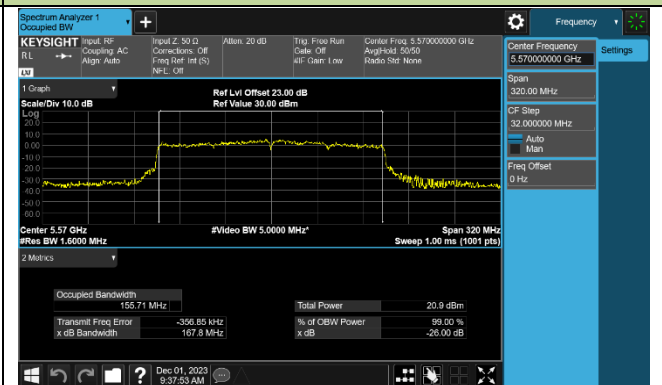


802.11ax-HE160 26dB Bandwidth & 99% Bandwidth

Channel 50 (5250MHz)

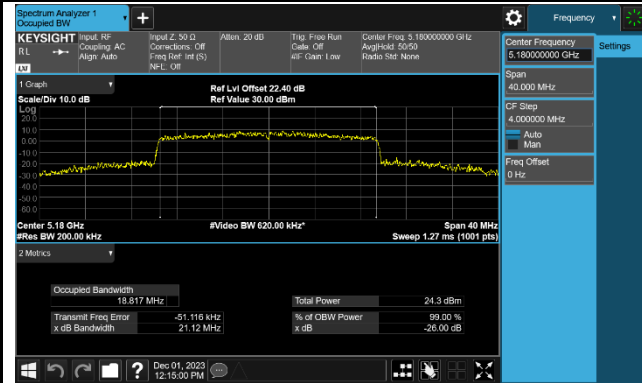


Channel 114 (5570MHz)

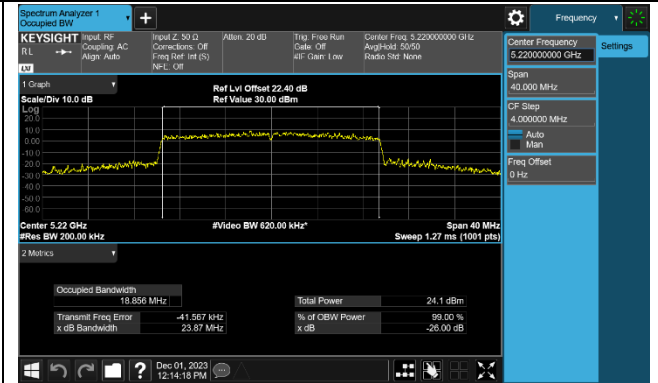


802.11be-EHT20 26dB Bandwidth & 99% Bandwidth

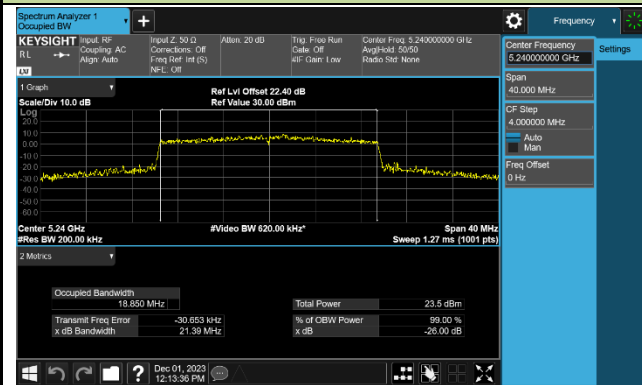
Channel 36 (5180MHz)



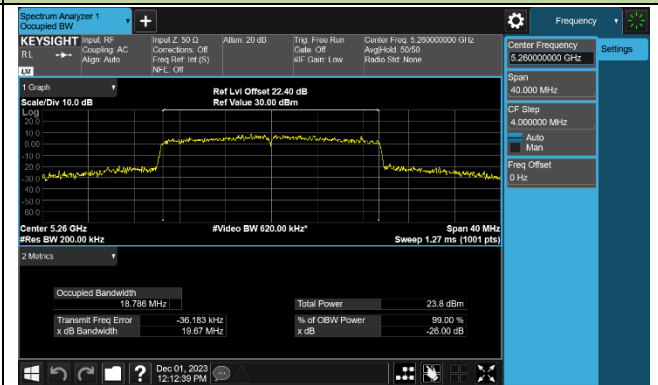
Channel 44 (5220MHz)



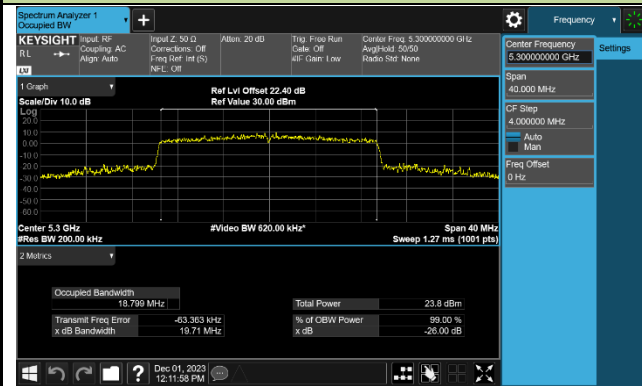
Channel 48 (5240MHz)



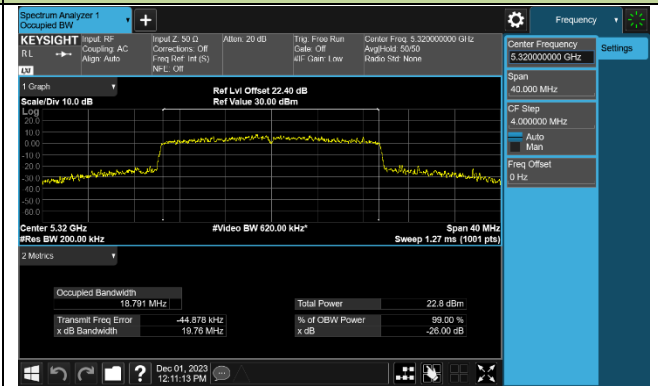
Channel 52 (5260MHz)



Channel 60 (5300MHz)



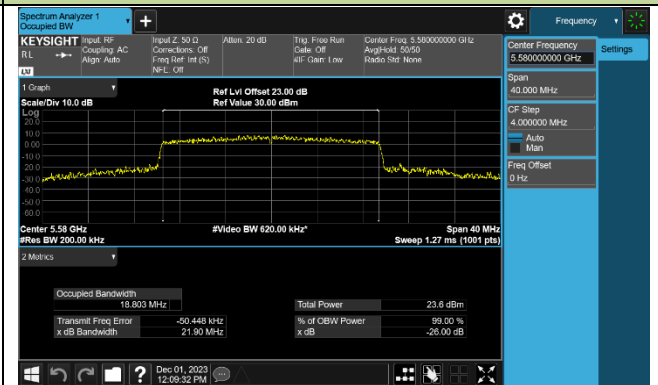
Channel 64 (5320MHz)

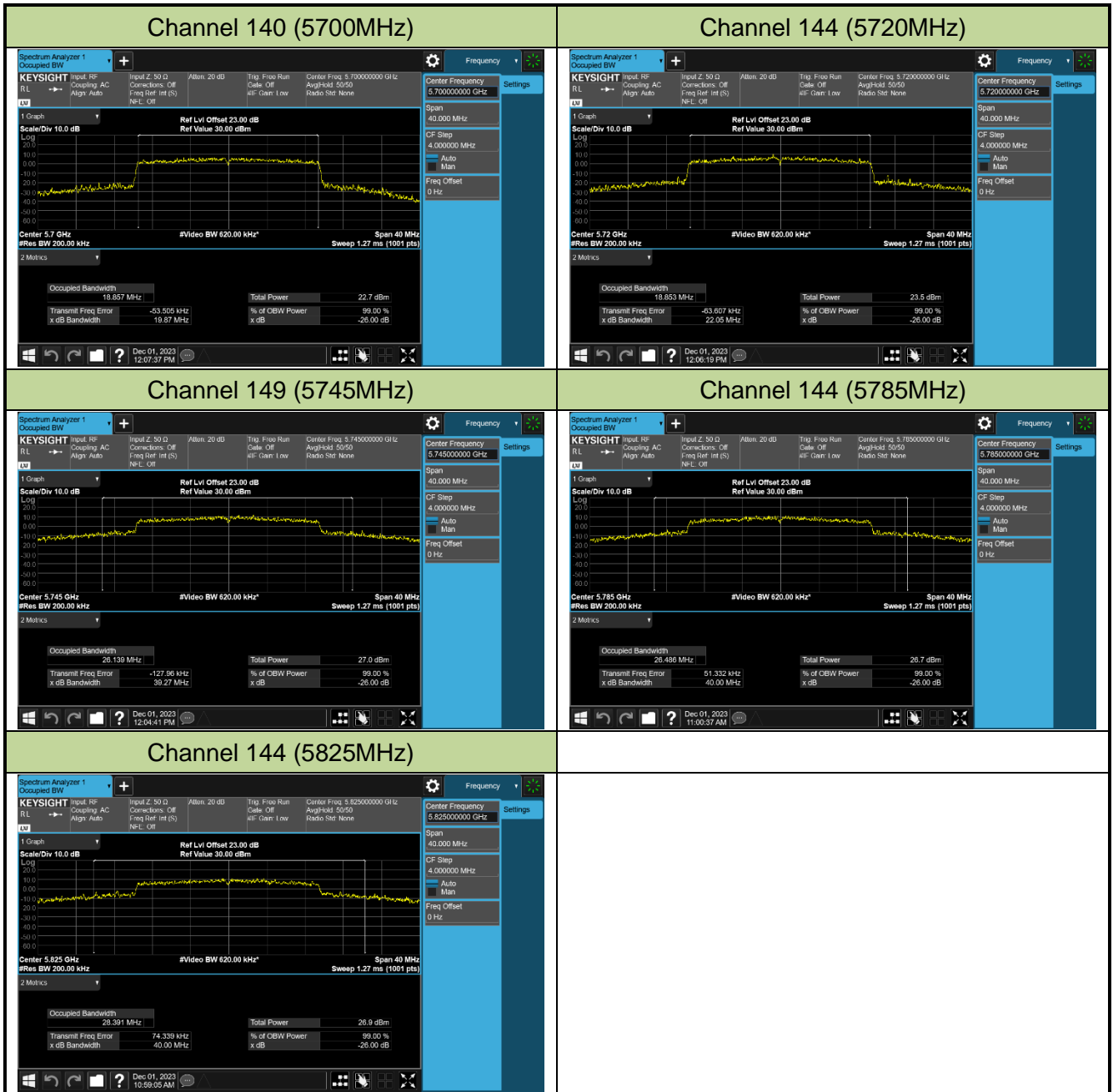


Channel 100 (5500MHz)



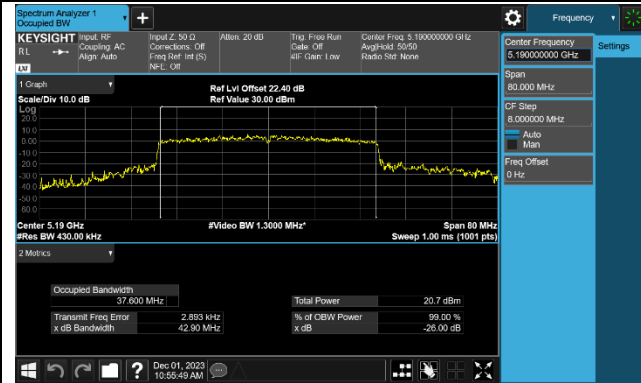
Channel 116 (5580MHz)



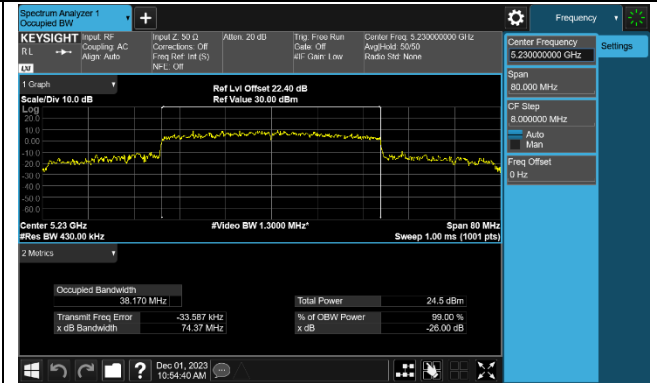


802.11be-EHT40 26dB Bandwidth & 99% Bandwidth

Channel 38 (5190MHz)



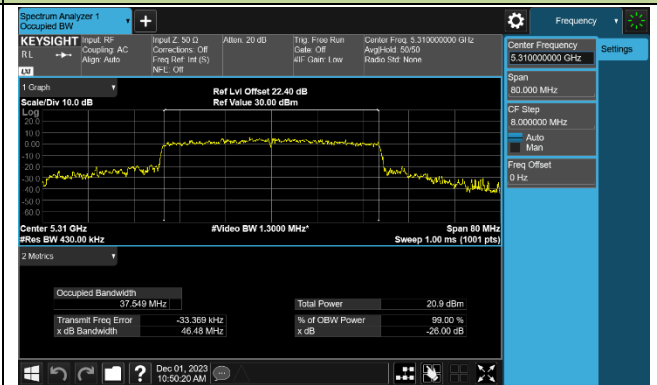
Channel 46 (5230MHz)



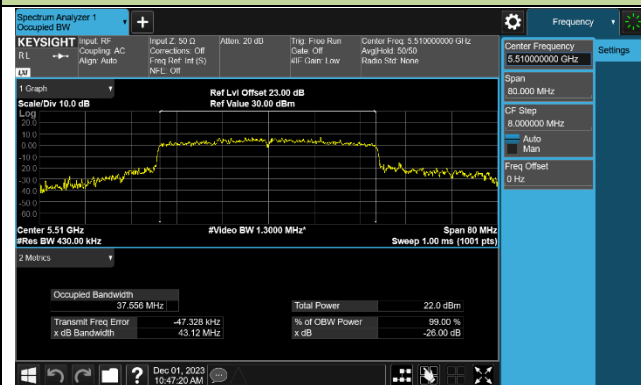
Channel 54 (5270MHz)



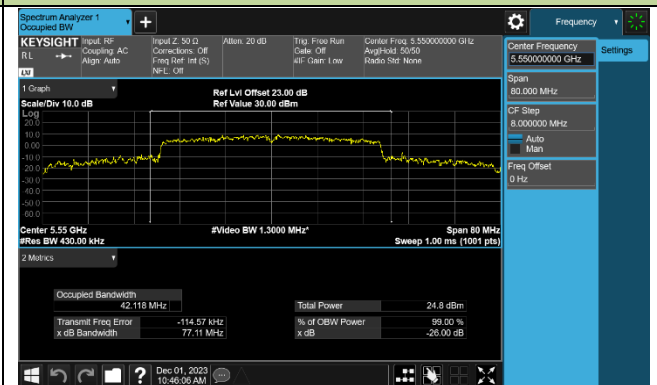
Channel 62 (5310MHz)



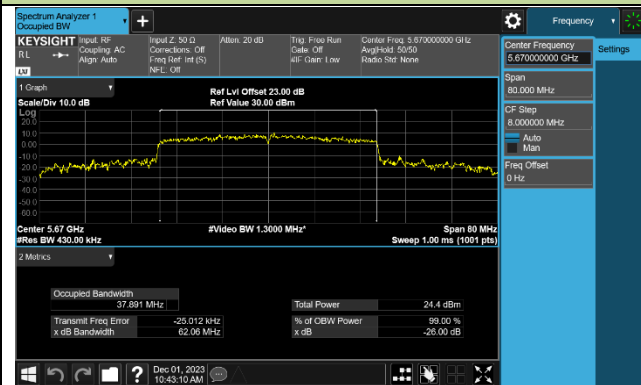
Channel 102 (5510MHz)



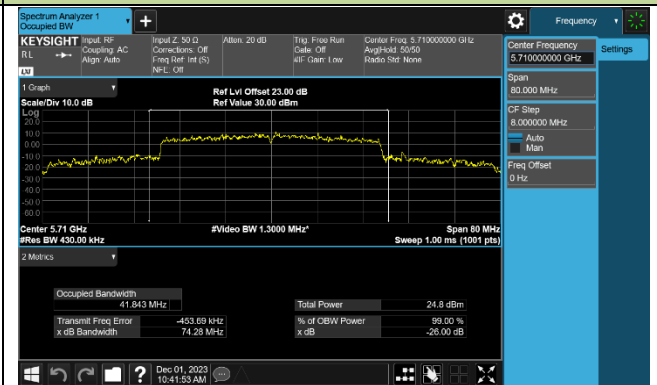
Channel 110 (5550MHz)

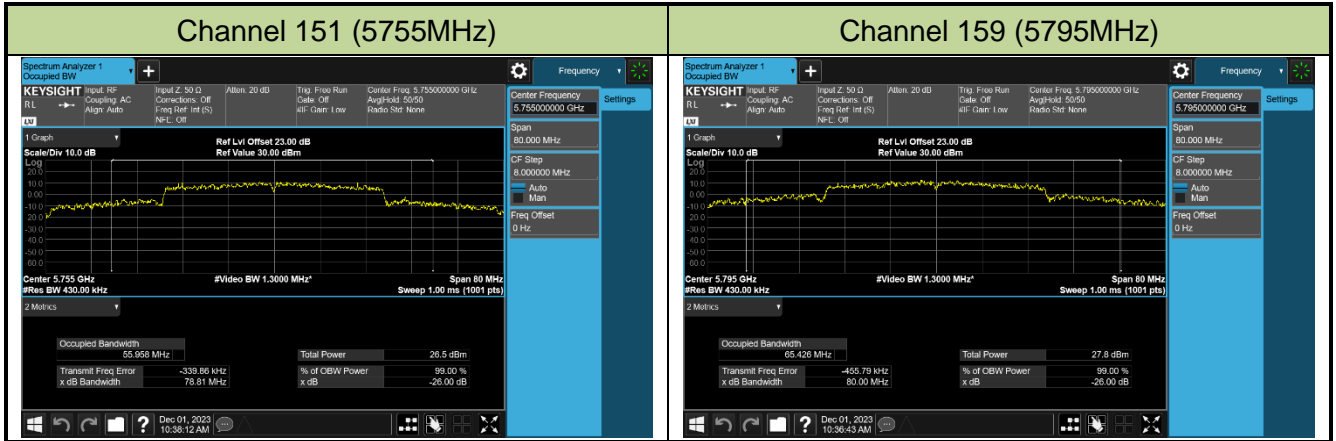


Channel 134 (5670MHz)



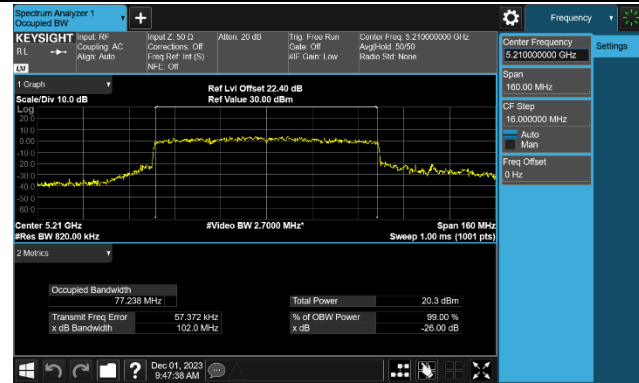
Channel 142 (5710MHz)



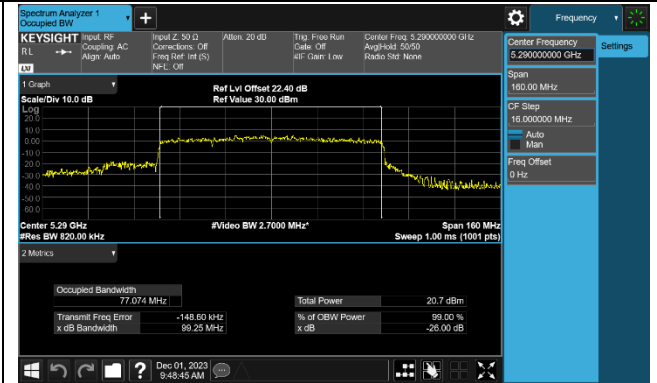


802.11be-EHT80 26dB Bandwidth & 99% Bandwidth

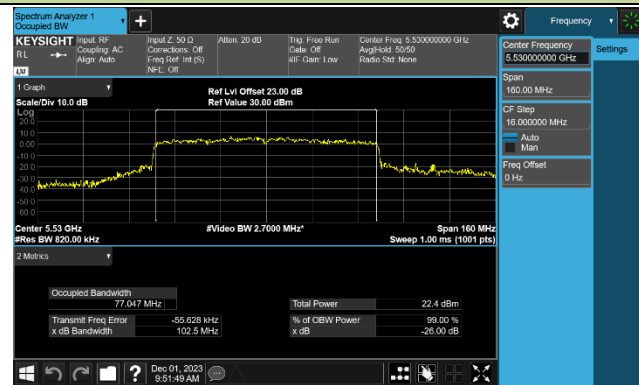
Channel 42 (5210MHz)



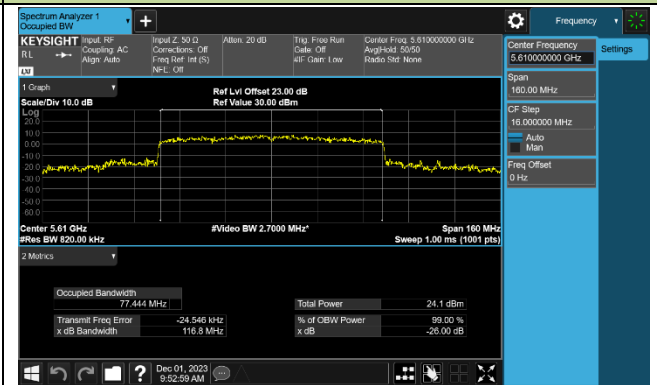
Channel 58 (5290MHz)



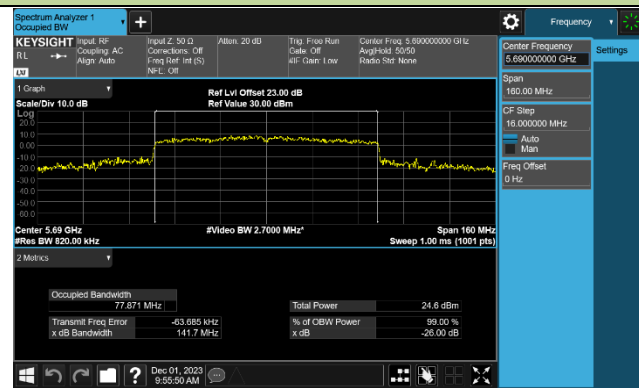
Channel 106 (5530MHz)



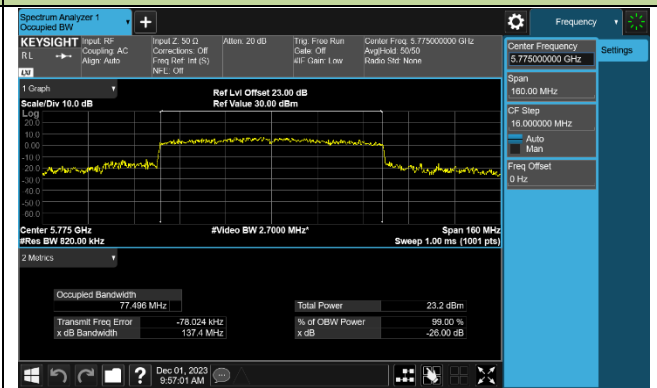
Channel 122 (5610MHz)



Channel 138 (5690MHz)

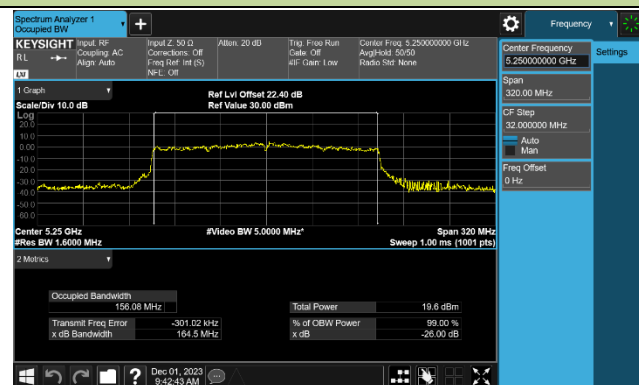


Channel 155 (5775MHz)

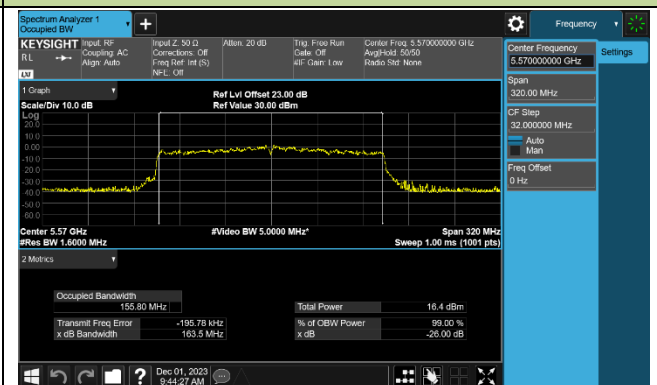


802.11be-EHT160 26dB Bandwidth & 99% Bandwidth

Channel 50 (5250MHz)



Channel 114 (5570MHz)



7.3. 6dB Bandwidth Measurement

7.3.1. Test Limit

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

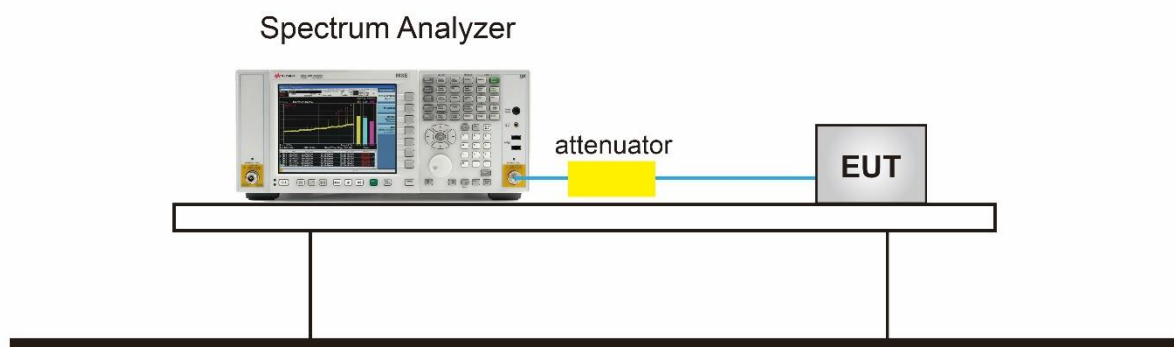
7.3.2. Test Procedure used

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



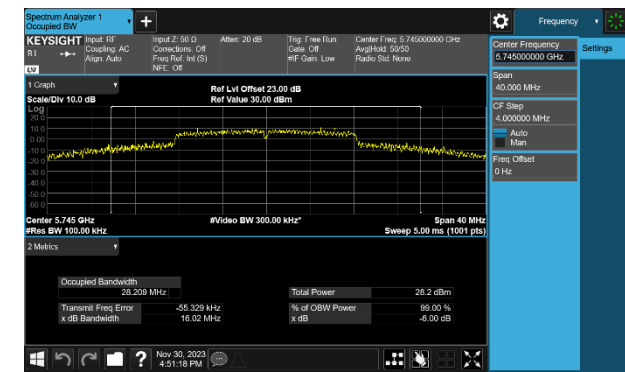
7.3.5. Test Result

Product	BE9300 Wi-Fi 7 Bluetooth PCIe Adapter	Test Engineer	Xuan Yu
Test Site	SR6	Test Date	2023/11/30~2023/12/01

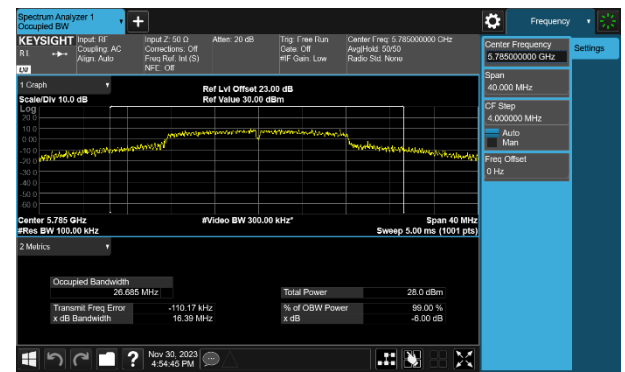
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 0						
802.11a	6Mbps	149	5745	16.020	≥ 0.5	Pass
802.11a	6Mbps	157	5785	16.390	≥ 0.5	Pass
802.11a	6Mbps	165	5825	15.990	≥ 0.5	Pass
802.11ac-VHT20	MCS0	149	5745	16.930	≥ 0.5	Pass
802.11ac-VHT20	MCS0	157	5785	16.880	≥ 0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.520	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	35.690	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	35.680	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	72.550	≥ 0.5	Pass
802.11ax-HE20	MCS0	149	5745	17.080	≥ 0.5	Pass
802.11ax-HE20	MCS0	157	5785	18.040	≥ 0.5	Pass
802.11ax-HE20	MCS0	165	5825	18.630	≥ 0.5	Pass
802.11ax-HE40	MCS0	151	5755	33.820	≥ 0.5	Pass
802.11ax-HE40	MCS0	159	5795	32.610	≥ 0.5	Pass
802.11ax-HE80	MCS0	155	5775	75.150	≥ 0.5	Pass
802.11be-EHT20	MCS0	149	5745	14.310	≥ 0.5	Pass
802.11be-EHT20	MCS0	157	5785	17.200	≥ 0.5	Pass
802.11be-EHT20	MCS0	165	5825	16.540	≥ 0.5	Pass
802.11be-EHT40	MCS0	151	5755	33.850	≥ 0.5	Pass
802.11be-EHT40	MCS0	159	5795	33.780	≥ 0.5	Pass
802.11be-EHT80	MCS0	155	5775	75.180	≥ 0.5	Pass

802.11a 6dB Bandwidth

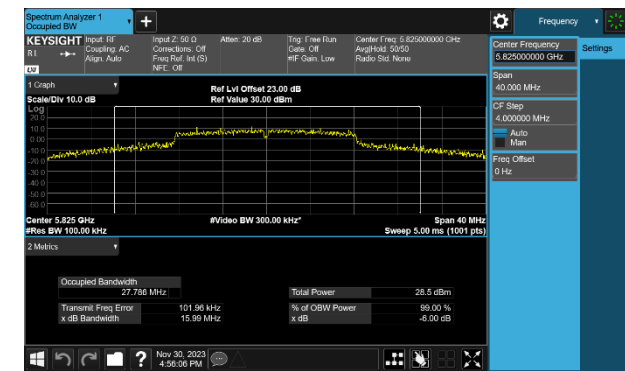
Channel 149 (5745MHz)



Channel 157 (5785MHz)

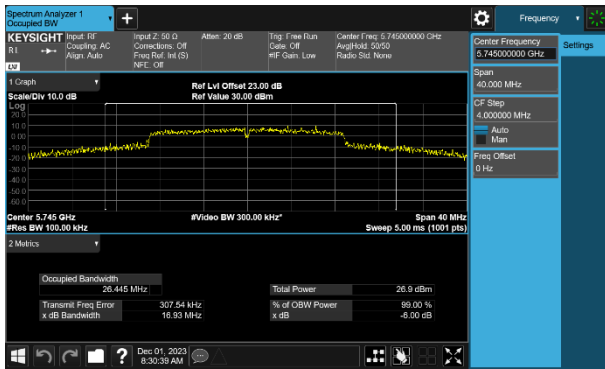


Channel 165 (5825MHz)

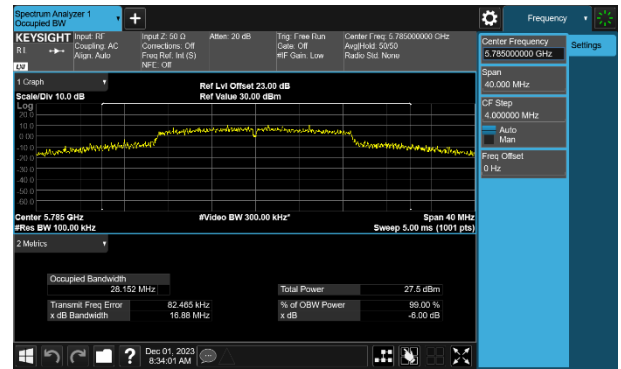


802.11ac-VHT20 6dB Bandwidth

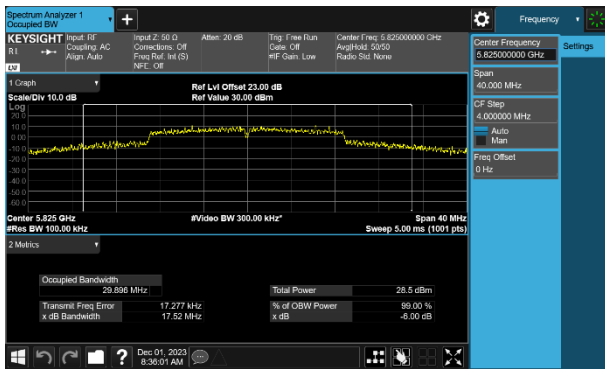
Channel 149 (5745MHz)



Channel 157 (5785MHz)

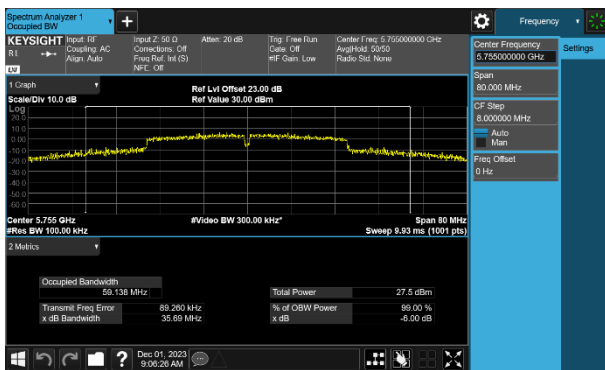


Channel 165 (5825MHz)

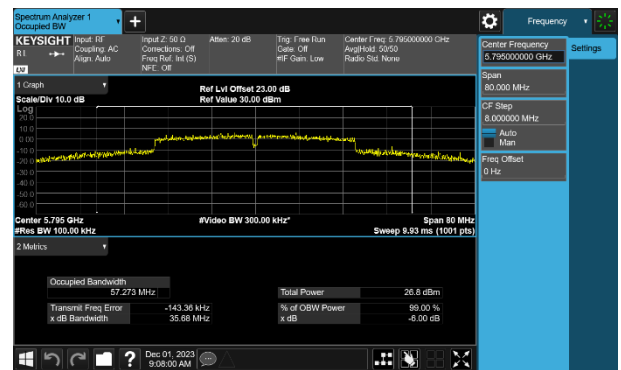


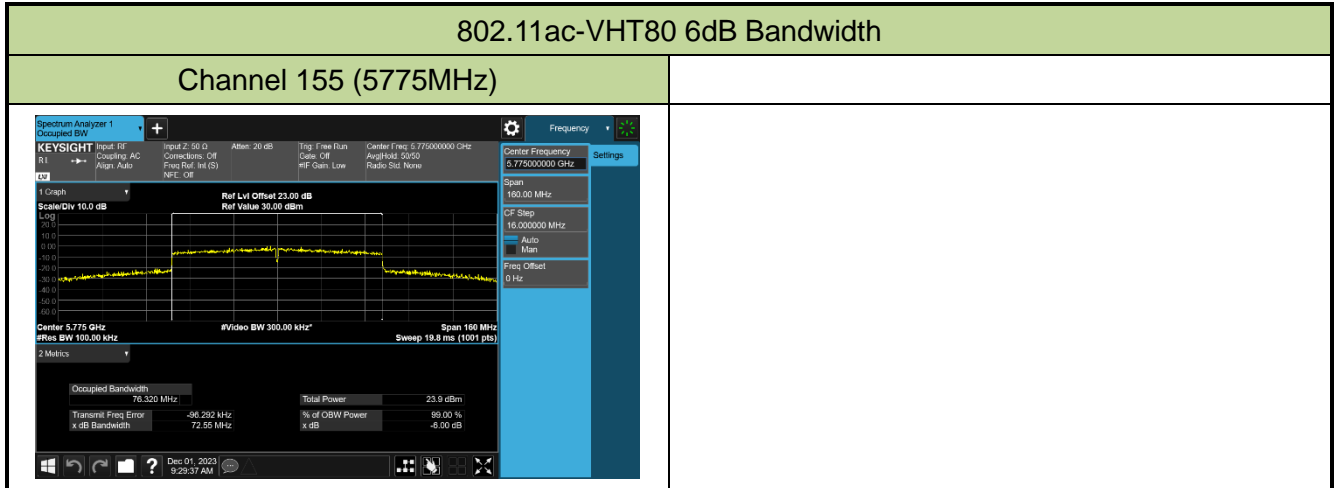
802.11ac-VHT40 6dB Bandwidth

Channel 151 (5755MHz)



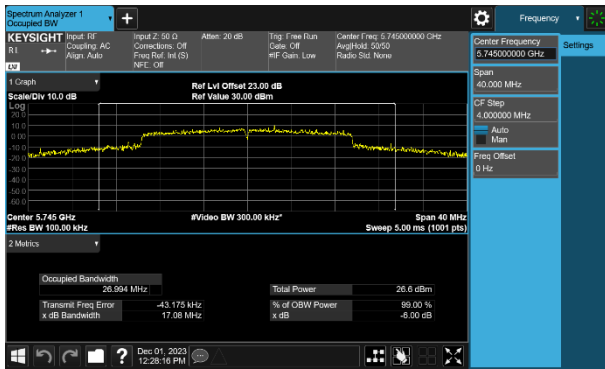
Channel 159 (5795MHz)



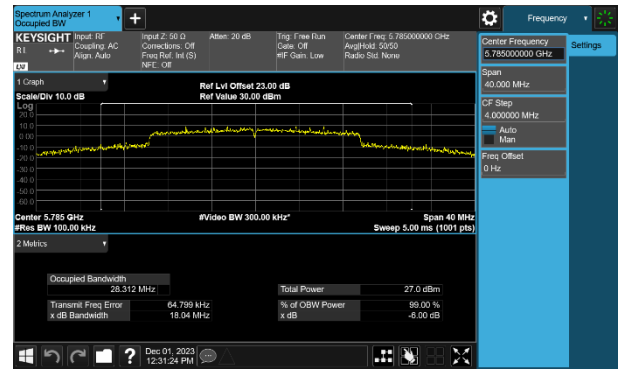


802.11ax-HE20 6dB Bandwidth

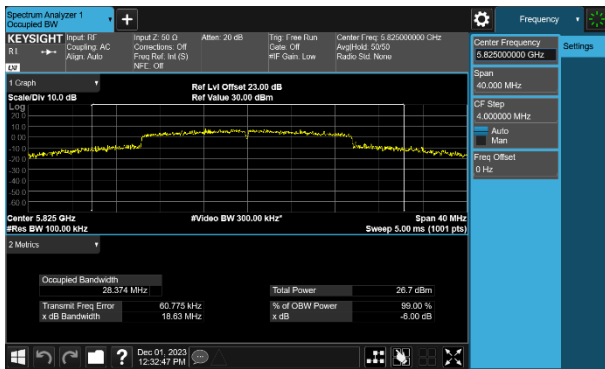
Channel 149 (5745MHz)



Channel 157 (5785MHz)

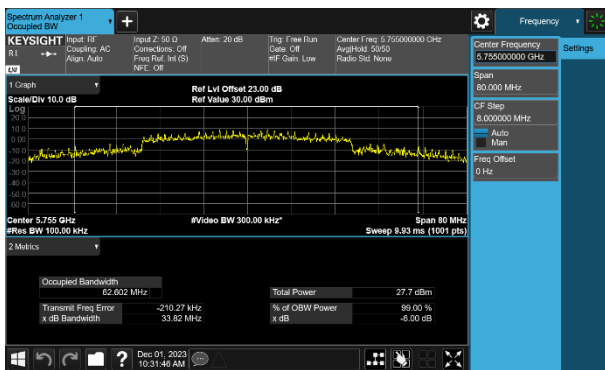


Channel 165 (5825MHz)

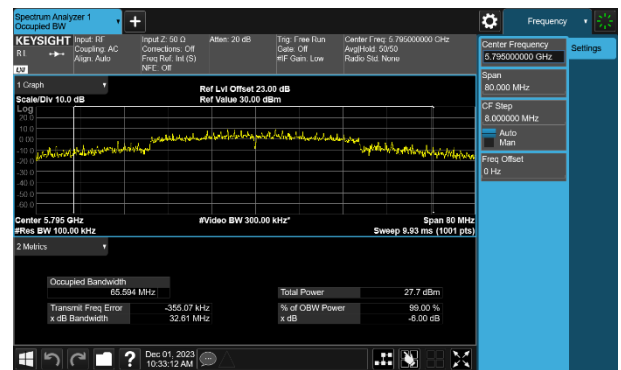


802.11ax-HE40 6dB Bandwidth

Channel 151 (5755MHz)

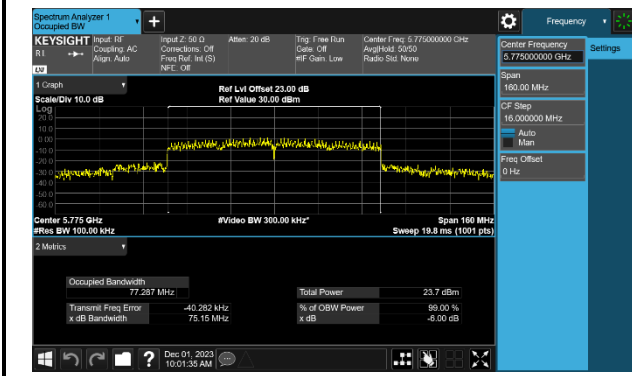


Channel 159 (5795MHz)



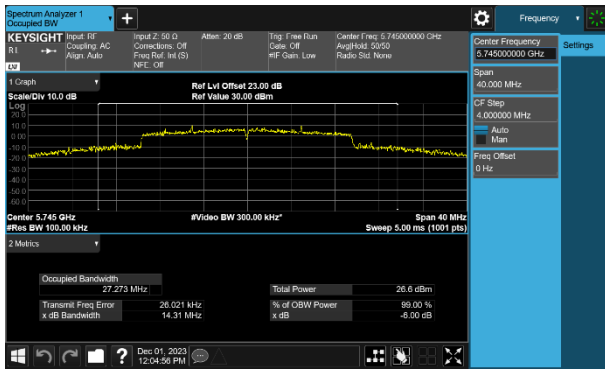
802.11ax-HE80 6dB Bandwidth

Channel 155 (5775MHz)

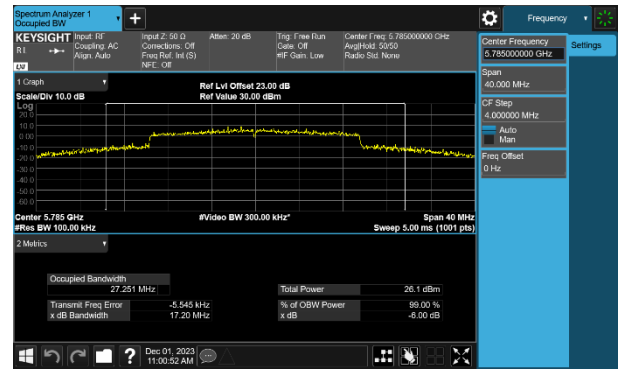


802.11be-EHT20 6dB Bandwidth

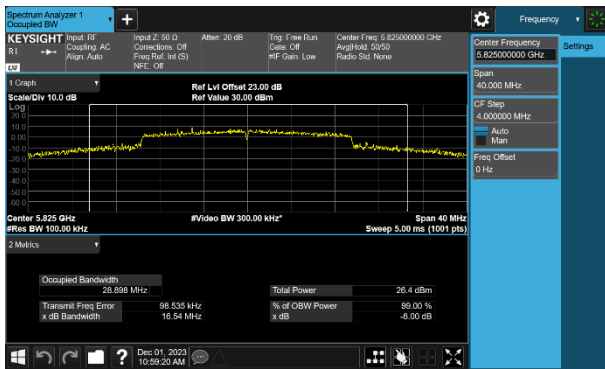
Channel 149 (5745MHz)



Channel 157 (5785MHz)

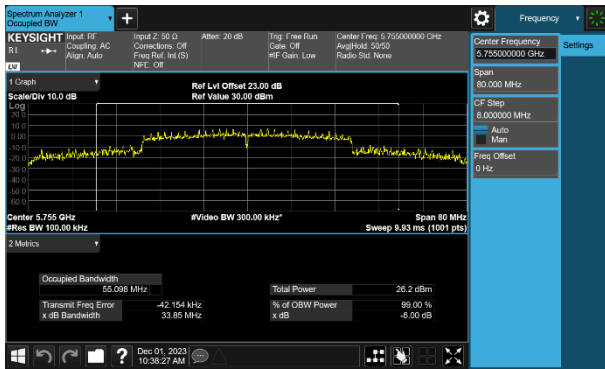


Channel 165 (5825MHz)

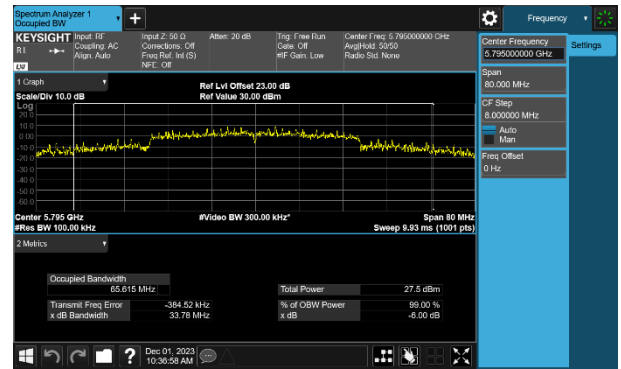


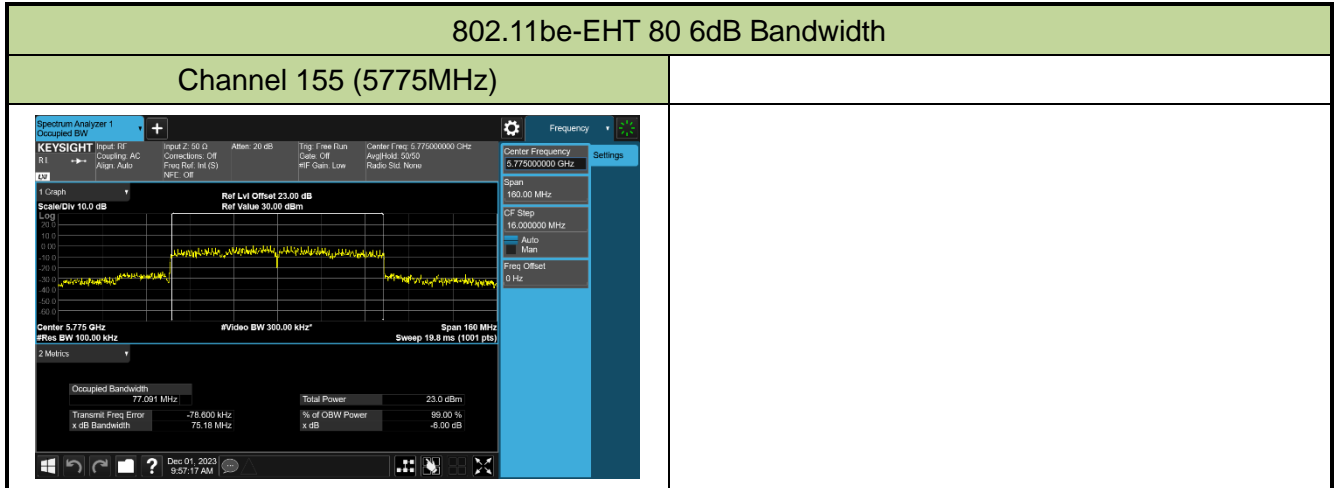
802.11be-EHT 40 6dB Bandwidth

Channel 151 (5755MHz)



Channel 159 (5795MHz)





7.4. Output Power Measurement

7.4.1. Test Limit

For client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW 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.

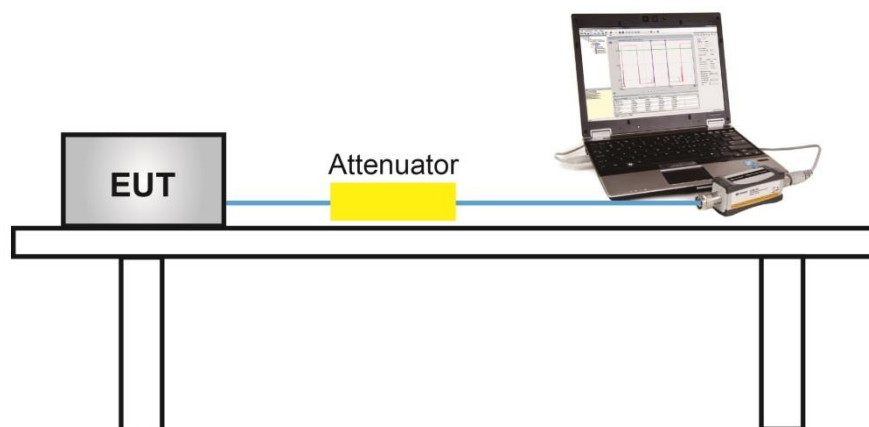
7.4.2. Test Procedure Used

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	BE9300 Wi-Fi 7 Bluetooth PCIe Adapter	Test Engineer	Xuan Yu
Test Site	SR6	Test Date	2023/11/16~2023/12/01
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)	Power Limit (dBm)	Result
11a	6Mbps	36	5180	19.36	18.80	22.10	≤ 23.98	Pass
11a	6Mbps	44	5220	19.25	18.41	21.86	≤ 23.98	Pass
11a	6Mbps	48	5240	18.95	18.54	21.76	≤ 23.98	Pass
11a	6Mbps	52	5260	19.33	18.93	22.14	≤ 23.98	Pass
11a	6Mbps	60	5300	18.61	18.32	21.48	≤ 23.98	Pass
11a	6Mbps	64	5320	19.08	18.77	21.94	≤ 23.98	Pass
11a	6Mbps	100	5500	19.80	18.35	22.15	≤ 23.98	Pass
11a	6Mbps	116	5580	19.90	19.01	22.49	≤ 23.98	Pass
11a	6Mbps	140	5700	19.12	18.00	21.61	≤ 23.98	Pass
11a	6Mbps	144	5720	19.81	18.95	22.41	≤ 23.18	Pass
11a	6Mbps	149	5745	24.25	23.10	26.72	≤ 30.00	Pass
11a	6Mbps	157	5785	23.56	23.30	26.44	≤ 30.00	Pass
11a	6Mbps	165	5825	24.03	23.22	26.65	≤ 30.00	Pass
11ac-VHT20	MCS0	36	5180	19.65	18.78	22.25	≤ 23.98	Pass
11ac-VHT20	MCS0	40	5220	20.51	19.38	22.99	≤ 23.98	Pass
11ac-VHT20	MCS0	48	5240	19.80	19.14	22.49	≤ 23.98	Pass
11ac-VHT20	MCS0	52	5260	19.90	19.36	22.65	≤ 23.98	Pass
11ac-VHT20	MCS0	60	5300	20.00	20.03	23.03	≤ 23.98	Pass
11ac-VHT20	MCS0	64	5320	19.04	19.27	22.17	≤ 23.98	Pass
11ac-VHT20	MCS0	100	5500	19.21	17.92	21.62	≤ 23.98	Pass
11ac-VHT20	MCS0	116	5580	19.86	19.04	22.48	≤ 23.98	Pass
11ac-VHT20	MCS0	140	5700	18.91	18.19	21.58	≤ 23.98	Pass
11ac-VHT20	MCS0	144	5720	19.80	19.15	22.50	≤23.28	Pass
11ac-VHT20	MCS0	149	5745	23.65	23.00	26.35	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	23.82	23.42	26.63	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	24.26	23.37	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)	Power Limit (dBm)	Result
11ac-VHT40	MCS0	38	5190	18.22	17.77	21.01	≤ 23.98	Pass
11ac-VHT40	MCS0	46	5230	19.87	21.29	23.65	≤ 23.98	Pass
11ac-VHT40	MCS0	54	5270	20.46	21.18	23.85	≤ 23.98	Pass
11ac-VHT40	MCS0	62	5310	17.44	17.85	20.66	≤ 23.98	Pass
11ac-VHT40	MCS0	102	5510	19.42	18.29	21.90	≤ 23.98	Pass
11ac-VHT40	MCS0	110	5550	21.16	20.55	23.88	≤ 23.98	Pass
11ac-VHT40	MCS0	134	5670	20.71	19.30	23.07	≤ 23.98	Pass
11ac-VHT40	MCS0	142	5710	21.07	20.26	23.69	≤ 23.98	Pass
11ac-VHT40	MCS0	151	5755	24.22	23.05	26.68	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	23.61	23.25	26.44	≤ 30.00	Pass
11ac-VHT80	MCS0	42	5210	17.71	17.01	20.38	≤ 23.98	Pass
11ac-VHT80	MCS0	58	5290	17.15	17.65	20.42	≤ 23.98	Pass
11ac-VHT80	MCS0	106	5530	19.74	18.92	22.36	≤ 23.98	Pass
11ac-VHT80	MCS0	122	5610	21.01	20.45	23.75	≤ 23.98	Pass
11ac-VHT80	MCS0	138	5690	20.89	20.53	23.72	≤ 23.98	Pass
11ac-VHT80	MCS0	155	5775	21.60	20.77	24.22	≤ 30.00	Pass
11ac-VHT160	MCS0	50	5250	17.26	16.21	19.78	≤ 23.98	Pass
11ac-VHT160	MCS0	114	5570	18.68	17.30	21.05	≤ 23.98	Pass
11ax-HE20	MCS0	36	5180	19.77	18.68	22.27	≤ 23.98	Pass
11ax-HE20	MCS0	40	5220	20.30	18.66	22.57	≤ 23.98	Pass
11ax-HE20	MCS0	48	5240	19.95	19.14	22.57	≤ 23.98	Pass
11ax-HE20	MCS0	52	5260	19.83	18.96	22.43	≤ 23.98	Pass
11ax-HE20	MCS0	60	5300	19.74	19.42	22.59	≤ 23.98	Pass
11ax-HE20	MCS0	64	5320	18.95	18.91	21.94	≤ 23.98	Pass
11ax-HE20	MCS0	100	5500	20.55	19.26	22.96	≤ 23.98	Pass
11ax-HE20	MCS0	116	5580	20.29	19.16	22.77	≤ 23.98	Pass
11ax-HE20	MCS0	140	5700	18.88	17.42	21.22	≤ 23.98	Pass
11ax-HE20	MCS0	144	5720	19.70	18.51	22.16	≤ 22.71	Pass
11ax-HE20	MCS0	149	5745	24.04	22.91	26.52	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	24.16	23.40	26.81	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	24.15	23.01	26.63	≤ 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
11ax-HE40	MCS0	38	5190	17.05	15.99	19.56	≤ 23.98	Pass
11ax-HE40	MCS0	46	5230	20.20	21.27	23.78	≤ 23.98	Pass
11ax-HE40	MCS0	54	5270	20.37	20.81	23.61	≤ 23.98	Pass
11ax-HE40	MCS0	62	5310	16.05	16.40	19.24	≤ 23.98	Pass
11ax-HE40	MCS0	102	5510	17.96	16.68	20.38	≤ 23.98	Pass
11ax-HE40	MCS0	110	5550	20.72	20.44	23.59	≤ 23.98	Pass
11ax-HE40	MCS0	134	5670	19.92	18.44	22.25	≤ 23.98	Pass
11ax-HE40	MCS0	142	5710	21.21	20.40	23.83	≤ 23.98	Pass
11ax-HE40	MCS0	151	5755	23.23	22.04	25.69	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	23.68	23.09	26.41	≤ 30.00	Pass
11ax-HE80	MCS0	42	5210	16.73	16.15	19.46	≤ 23.98	Pass
11ax-HE80	MCS0	58	5290	16.53	16.86	19.71	≤ 23.98	Pass
11ax-HE80	MCS0	106	5530	18.70	17.67	21.23	≤ 23.98	Pass
11ax-HE80	MCS0	122	5610	20.90	20.22	23.58	≤ 23.98	Pass
11ax-HE80	MCS0	138	5690	20.78	20.17	23.50	≤ 23.98	Pass
11ax-HE80	MCS0	155	5775	20.66	19.20	23.00	≤ 30.00	Pass
11ax-HE160	MCS0	50	5250	15.52	14.77	18.17	≤ 23.98	Pass
11ax-HE160	MCS0	114	5570	17.63	16.61	20.16	≤ 23.98	Pass
11be-EHT20	MCS0	36	5180	20.15	19.11	22.67	≤ 23.98	Pass
11be-EHT20	MCS0	40	5220	20.33	18.69	22.60	≤ 23.98	Pass
11be-EHT20	MCS0	48	5240	19.71	18.42	22.12	≤ 23.98	Pass
11be-EHT20	MCS0	52	5260	19.80	18.89	22.38	≤ 23.98	Pass
11be-EHT20	MCS0	60	5300	19.75	18.91	22.36	≤ 23.98	Pass
11be-EHT20	MCS0	64	5320	18.31	18.60	21.47	≤ 23.98	Pass
11be-EHT20	MCS0	100	5500	19.81	18.70	22.30	≤ 23.98	Pass
11be-EHT20	MCS0	116	5580	19.50	18.71	22.13	≤ 23.98	Pass
11be-EHT20	MCS0	140	5700	19.10	18.00	21.60	≤ 23.98	Pass
11be-EHT20	MCS0	144	5720	19.91	18.96	22.47	≤ 23.05	Pass
11be-EHT20	MCS0	149	5745	24.06	23.07	26.60	≤ 30.00	Pass
11be-EHT20	MCS0	157	5785	23.66	23.05	26.38	≤ 30.00	Pass
11be-EHT20	MCS0	165	5825	23.98	23.00	26.53	≤ 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
11be-EHT40	MCS0	38	5190	17.11	16.36	19.76	≤ 23.98	Pass
11be-EHT40	MCS0	46	5230	20.31	21.30	23.84	≤ 23.98	Pass
11be-EHT40	MCS0	54	5270	20.05	21.31	23.74	≤ 23.98	Pass
11be-EHT40	MCS0	62	5310	16.02	15.99	19.02	≤ 23.98	Pass
11be-EHT40	MCS0	102	5510	18.00	17.00	20.54	≤ 23.98	Pass
11be-EHT40	MCS0	110	5550	20.74	20.51	23.64	≤ 23.98	Pass
11be-EHT40	MCS0	134	5670	19.81	18.84	22.36	≤ 23.98	Pass
11be-EHT40	MCS0	142	5710	20.90	20.01	23.49	≤ 23.98	Pass
11be-EHT40	MCS0	151	5755	22.24	21.39	24.85	≤ 30.00	Pass
11be-EHT40	MCS0	159	5795	23.86	23.12	26.52	≤ 30.00	Pass
11be-EHT80	MCS0	42	5210	16.21	15.62	18.94	≤ 23.98	Pass
11be-EHT80	MCS0	58	5290	16.80	16.85	19.84	≤ 23.98	Pass
11be-EHT80	MCS0	106	5530	18.89	17.85	21.41	≤ 23.98	Pass
11be-EHT80	MCS0	122	5610	20.94	20.43	23.70	≤ 23.98	Pass
11be-EHT80	MCS0	138	5690	20.73	20.25	23.51	≤ 23.98	Pass
11be-EHT80	MCS0	155	5775	20.23	18.59	22.50	≤ 30.00	Pass
11be-EHT160	MCS0	50	5250	15.77	14.86	18.35	≤ 23.98	Pass
11be-EHT160	MCS0	114	5570	13.42	12.27	15.89	≤ 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 802.11a Ch144 (5720MHz), Average Power Limit (dBm) = $11 + 10 \cdot \log(5\text{MHz} + \text{BW}_{26\text{dBc}}/2) = 23.18$ dBm.

For 802.11ac Ch144 (5720MHz), Average Power Limit (dBm) = $11 + 10 \cdot \log(5\text{MHz} + \text{BW}_{26\text{dBc}}/2) = 23.28$ dBm.

For 802.11ax Ch144 (5720MHz), Average Power Limit (dBm) = $11 + 10 \cdot \log(5\text{MHz} + \text{BW}_{26\text{dBc}}/2) = 22.71$ dBm.

For 802.11be Ch144 (5720MHz), Average Power Limit (dBm) = $11 + 10 \cdot \log(5\text{MHz} + \text{BW}_{26\text{dBc}}/2) = 23.05$ dBm.

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.

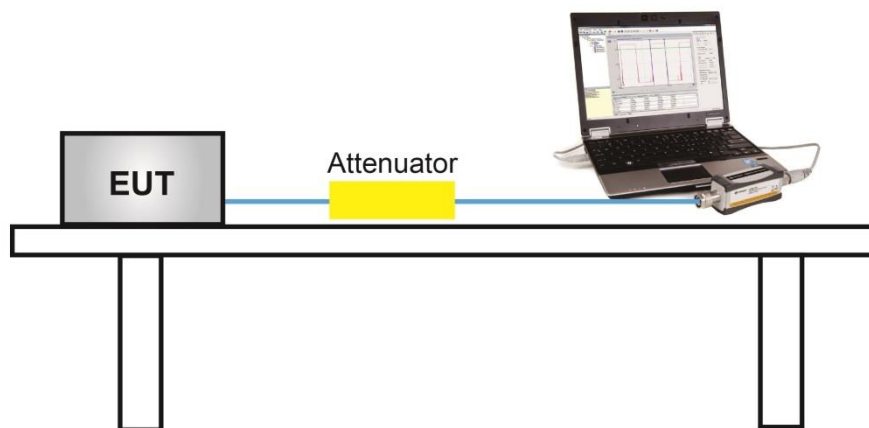
7.5.2. Test Procedure Used

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 11 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.

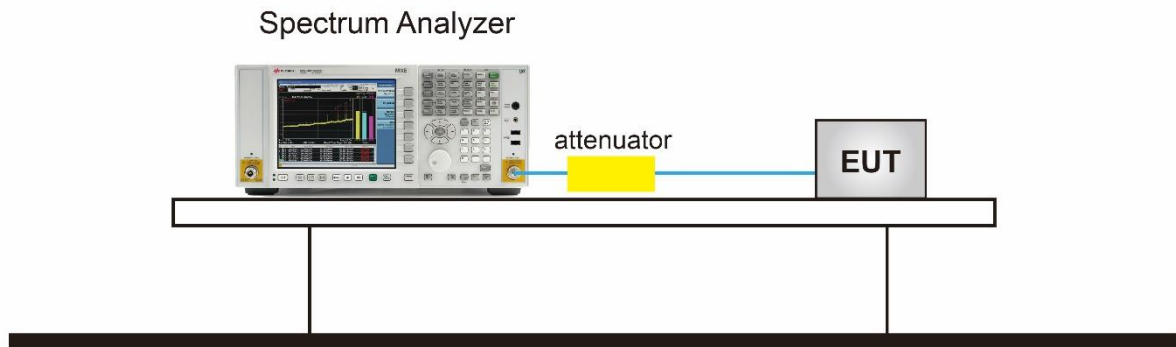
7.6.2. Test Procedure Used

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	BE9300 Wi-Fi 7 Bluetooth PCIe Adapter	Test Engineer	Xuan Yu
Test Site	SR6	Test Date	2023/11/16~2023/12/01
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	7.776	7.375	97.03%	10.721	≤ 11.00	Pass
11a	6Mbps	44	5220	8.065	7.067	97.03%	10.736	≤ 11.00	Pass
11a	6Mbps	48	5240	7.911	7.529	97.03%	10.865	≤ 11.00	Pass
11a	6Mbps	52	5260	7.816	7.721	97.03%	10.910	≤ 11.00	Pass
11a	6Mbps	60	5300	7.466	7.366	97.03%	10.558	≤ 11.00	Pass
11a	6Mbps	64	5320	7.724	7.420	97.03%	10.716	≤ 11.00	Pass
11a	6Mbps	100	5500	8.421	6.978	97.03%	10.900	≤ 11.00	Pass
11a	6Mbps	116	5580	8.241	7.351	97.03%	10.960	≤ 11.00	Pass
11a	6Mbps	140	5700	7.803	6.569	97.03%	10.371	≤ 11.00	Pass
11a	6Mbps	144	5720	8.277	6.992	97.03%	10.823	≤ 11.00	Pass
11ac-VHT20	MCS0	36	5180	7.622	6.505	97.61%	10.215	≤ 11.00	Pass
11ac-VHT20	MCS0	40	5220	7.605	7.700	97.61%	10.768	≤ 11.00	Pass
11ac-VHT20	MCS0	48	5240	7.279	7.942	97.61%	10.738	≤ 11.00	Pass
11ac-VHT20	MCS0	52	5260	7.574	7.829	97.61%	10.819	≤ 11.00	Pass
11ac-VHT20	MCS0	60	5300	7.536	7.804	97.61%	10.787	≤ 11.00	Pass
11ac-VHT20	MCS0	64	5320	7.327	7.550	97.61%	10.555	≤ 11.00	Pass
11ac-VHT20	MCS0	100	5500	7.491	6.193	97.61%	10.006	≤ 11.00	Pass
11ac-VHT20	MCS0	116	5580	8.022	7.272	97.61%	10.779	≤ 11.00	Pass
11ac-VHT20	MCS0	140	5700	7.072	5.903	97.61%	9.642	≤ 11.00	Pass
11ac-VHT20	MCS0	144	5720	8.060	6.905	97.61%	10.636	≤ 11.00	Pass
11ac-VHT40	MCS0	38	5190	3.374	2.558	97.28%	6.115	≤ 11.00	Pass
11ac-VHT40	MCS0	46	5230	5.555	5.285	97.28%	8.552	≤ 11.00	Pass
11ac-VHT40	MCS0	54	5270	6.451	6.764	97.28%	9.740	≤ 11.00	Pass
11ac-VHT40	MCS0	62	5310	3.110	3.291	97.28%	6.332	≤ 11.00	Pass
11ac-VHT40	MCS0	102	5510	4.541	3.489	97.28%	7.177	≤ 11.00	Pass
11ac-VHT40	MCS0	110	5550	6.294	5.541	97.28%	9.064	≤ 11.00	Pass
11ac-VHT40	MCS0	134	5670	5.996	4.518	97.28%	8.450	≤ 11.00	Pass
11ac-VHT40	MCS0	142	5710	6.094	5.653	97.28%	9.009	≤ 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	-0.044	-0.719	97.50%	2.752	≤ 11.00	Pass
11ac-VHT80	MCS0	58	5290	0.292	0.327	97.50%	3.430	≤ 11.00	Pass
11ac-VHT80	MCS0	106	5530	2.314	1.252	97.50%	4.936	≤ 11.00	Pass
11ac-VHT80	MCS0	122	5610	3.448	2.575	97.50%	6.154	≤ 11.00	Pass
11ac-VHT80	MCS0	138	5690	4.089	3.306	97.50%	6.835	≤ 11.00	Pass
11ac-VHT160	MCS0	50	5250	-2.349	-2.898	97.54%	0.504	≤ 11.00	Pass
11ac-VHT160	MCS0	114	5570	-1.292	-2.585	97.54%	1.228	≤ 11.00	Pass
11ax-HE20	MCS0	36	5180	8.100	7.265	98.75%	10.767	≤ 11.00	Pass
11ax-HE20	MCS0	44	5220	7.763	7.545	98.75%	10.720	≤ 11.00	Pass
11ax-HE20	MCS0	48	5240	7.476	7.860	98.75%	10.737	≤ 11.00	Pass
11ax-HE20	MCS0	52	5260	7.422	7.708	98.75%	10.632	≤ 11.00	Pass
11ax-HE20	MCS0	60	5300	7.731	7.976	98.75%	10.920	≤ 11.00	Pass
11ax-HE20	MCS0	64	5320	7.686	7.481	98.75%	10.650	≤ 11.00	Pass
11ax-HE20	MCS0	100	5500	8.372	7.194	98.75%	10.888	≤ 11.00	Pass
11ax-HE20	MCS0	116	5580	8.018	7.661	98.75%	10.908	≤ 11.00	Pass
11ax-HE20	MCS0	140	5700	7.355	6.122	98.75%	9.847	≤ 11.00	Pass
11ax-HE20	MCS0	144	5720	8.050	6.748	98.75%	10.513	≤ 11.00	Pass
11ax-HE40	MCS0	38	5190	2.604	2.166	98.51%	5.466	≤ 11.00	Pass
11ax-HE40	MCS0	46	5230	6.875	6.451	98.51%	9.744	≤ 11.00	Pass
11ax-HE40	MCS0	54	5270	6.517	6.731	98.51%	9.701	≤ 11.00	Pass
11ax-HE40	MCS0	62	5310	2.594	2.733	98.51%	5.740	≤ 11.00	Pass
11ax-HE40	MCS0	102	5510	3.883	2.817	98.51%	6.458	≤ 11.00	Pass
11ax-HE40	MCS0	110	5550	6.780	6.106	98.51%	9.532	≤ 11.00	Pass
11ax-HE40	MCS0	134	5670	6.276	4.364	98.51%	8.500	≤ 11.00	Pass
11ax-HE40	MCS0	142	5710	7.913	6.185	98.51%	10.210	≤ 11.00	Pass
11ax-HE80	MCS0	42	5210	-0.775	-0.765	97.45%	2.352	≤ 11.00	Pass
11ax-HE80	MCS0	58	5290	-0.783	0.124	97.45%	2.817	≤ 11.00	Pass
11ax-HE80	MCS0	106	5530	1.152	0.651	97.45%	4.031	≤ 11.00	Pass
11ax-HE80	MCS0	122	5610	2.880	2.761	97.45%	5.943	≤ 11.00	Pass
11ax-HE80	MCS0	122	5690	4.164	3.399	97.45%	6.921	≤ 11.00	Pass
11ax-HE160	MCS0	50	5250	-3.579	-4.426	97.31%	-0.853	≤ 11.00	Pass
11ax-HE160	MCS0	114	5570	-1.703	-2.790	97.31%	0.916	≤ 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	7.859	7.792	98.53%	10.900	≤ 11.00	Pass
11be-EHT20	MCS0	44	5220	7.887	7.646	98.53%	10.843	≤ 11.00	Pass
11be-EHT20	MCS0	48	5240	7.502	8.152	98.53%	10.914	≤ 11.00	Pass
11be-EHT20	MCS0	52	5260	7.726	7.733	98.53%	10.804	≤ 11.00	Pass
11be-EHT20	MCS0	60	5300	7.431	7.981	98.53%	10.789	≤ 11.00	Pass
11be-EHT20	MCS0	64	5320	7.227	7.801	98.53%	10.598	≤ 11.00	Pass
11be-EHT20	MCS0	100	5500	7.771	7.190	98.53%	10.565	≤ 11.00	Pass
11be-EHT20	MCS0	116	5580	7.909	7.469	98.53%	10.769	≤ 11.00	Pass
11be-EHT20	MCS0	140	5700	7.647	6.541	98.53%	10.204	≤ 11.00	Pass
11be-EHT20	MCS0	144	5720	8.073	7.201	98.53%	10.733	≤ 11.00	Pass
11be-EHT40	MCS0	38	5190	2.578	2.203	98.26%	5.481	≤ 11.00	Pass
11be-EHT40	MCS0	46	5230	6.099	6.371	98.26%	9.324	≤ 11.00	Pass
11be-EHT40	MCS0	54	5270	6.460	7.281	98.26%	9.976	≤ 11.00	Pass
11be-EHT40	MCS0	62	5310	2.377	2.743	98.26%	5.650	≤ 11.00	Pass
11be-EHT40	MCS0	102	5510	3.721	2.632	98.26%	6.297	≤ 11.00	Pass
11be-EHT40	MCS0	110	5550	6.749	6.039	98.26%	9.495	≤ 11.00	Pass
11be-EHT40	MCS0	134	5670	6.160	4.822	98.26%	8.629	≤ 11.00	Pass
11be-EHT40	MCS0	142	5710	6.383	6.032	98.26%	9.298	≤ 11.00	Pass
11be-EHT80	MCS0	42	5210	-0.952	-1.348	97.68%	1.967	≤ 11.00	Pass
11be-EHT80	MCS0	58	5290	-0.175	-0.171	97.68%	2.939	≤ 11.00	Pass
11be-EHT80	MCS0	106	5530	1.694	1.364	97.68%	4.644	≤ 11.00	Pass
11be-EHT80	MCS0	122	5610	3.200	2.953	97.68%	6.190	≤ 11.00	Pass
11be-EHT80	MCS0	138	5690	4.446	2.674	97.68%	6.762	≤ 11.00	Pass
11be-EHT160	MCS0	50	5250	-3.021	-3.749	97.57%	-0.253	≤ 11.00	Pass
11be-EHT160	MCS0	114	5570	-6.130	-7.239	97.57%	-3.532	≤ 11.00	Pass

Note 1: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	BE9300 Wi-Fi 7 Bluetooth PCIe Adapter	Test Engineer	Xuan Yu
Test Site	SR6	Test Date	2023/11/16~2023/12/01
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/510kHz)	Limit (dBm/500kHz)	Result
11a	6Mbps	149	5745	9.911	8.525	97.03%	12.414	≤ 30.00	Pass
11a	6Mbps	157	5785	9.882	8.375	97.03%	12.335	≤ 30.00	Pass
11a	6Mbps	165	5825	10.083	8.497	97.03%	12.503	≤ 30.00	Pass
11ac-VHT20	MCS0	149	5745	8.619	7.511	97.61%	11.216	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	9.002	7.554	97.61%	11.453	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	9.578	8.135	97.61%	12.032	≤ 30.00	Pass
11ac-VHT40	MCS0	151	5755	6.225	5.416	97.28%	8.969	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	5.777	4.945	97.28%	8.511	≤ 30.00	Pass
11ac-VHT80	MCS0	155	5775	0.989	0.170	97.50%	3.719	≤ 30.00	Pass
11ax-HE20	MCS0	149	5745	9.317	8.278	98.75%	11.893	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	9.101	8.338	98.75%	11.801	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	9.185	8.578	98.75%	11.957	≤ 30.00	Pass
11ax-HE40	MCS0	151	5755	7.430	5.896	98.51%	9.806	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	7.377	6.847	98.51%	10.196	≤ 30.00	Pass
11ax-HE80	MCS0	155	5775	2.068	0.931	97.45%	4.659	≤ 30.00	Pass
11be-EHT20	MCS0	149	5745	9.147	8.824	98.53%	12.063	≤ 30.00	Pass
11be-EHT20	MCS0	157	5785	8.404	8.116	98.53%	11.337	≤ 30.00	Pass
11be-EHT20	MCS0	165	5825	8.405	9.047	98.53%	11.812	≤ 30.00	Pass
11be-EHT40	MCS0	151	5755	6.377	5.300	98.26%	8.958	≤ 30.00	Pass
11be-EHT40	MCS0	159	5795	6.949	6.380	98.26%	9.760	≤ 30.00	Pass
11be-EHT80	MCS0	155	5775	0.389	0.279	97.68%	3.447	≤ 30.00	Pass

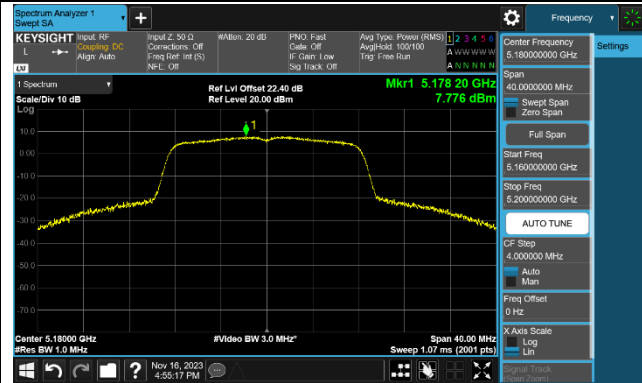
Note 1: When EUT duty cycle ≥ 98%,

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

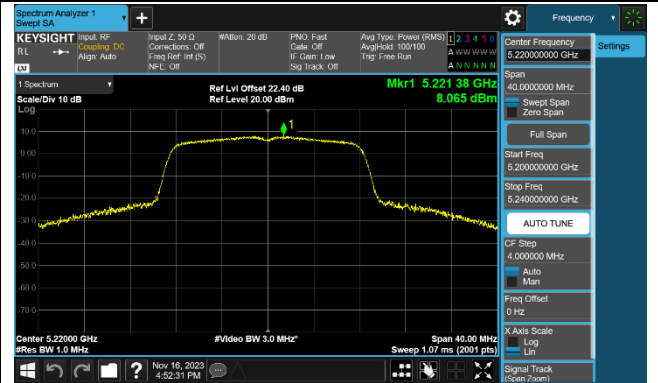
When EUT duty cycle < 98%, the total PSD (dBm/510kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/510kHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

802.11a Power Spectral Density - Ant 0

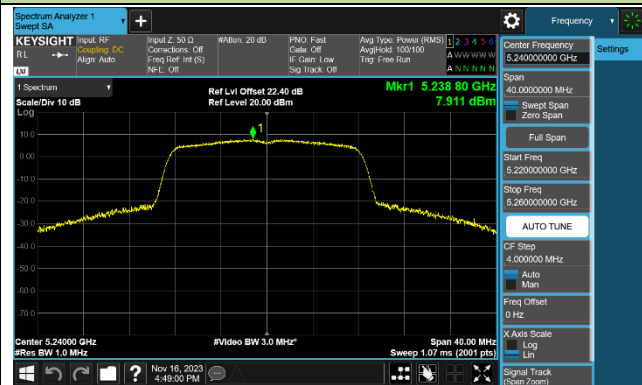
Channel 36 (5180MHz)



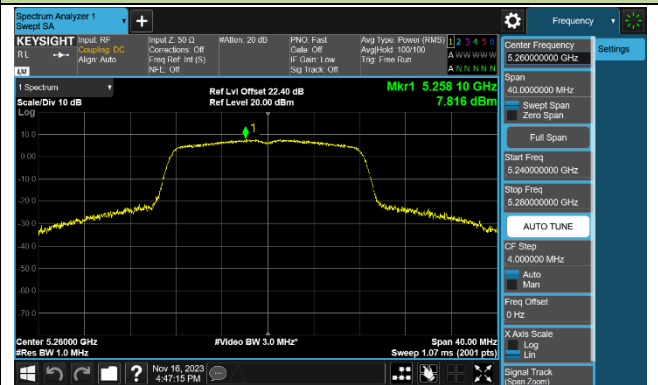
Channel 44 (5220MHz)



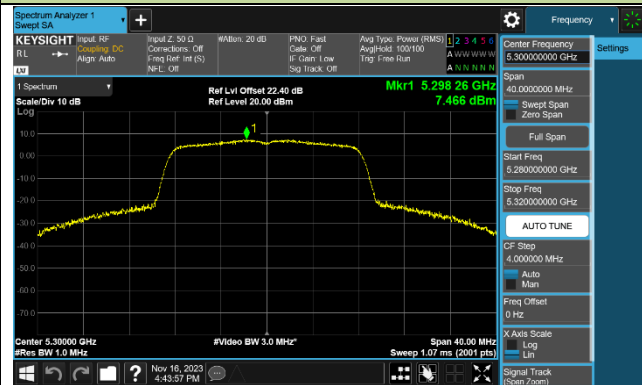
Channel 48 (5240MHz)



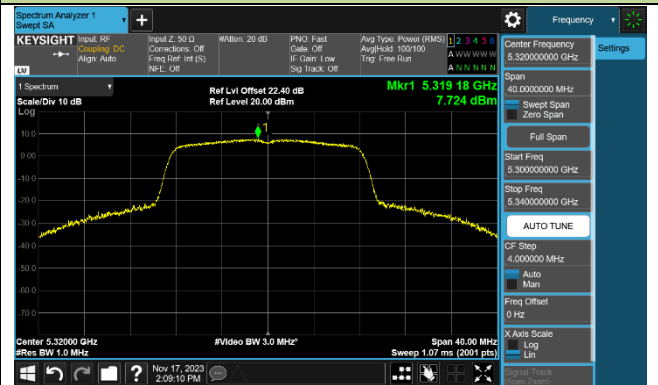
Channel 52 (5260MHz)



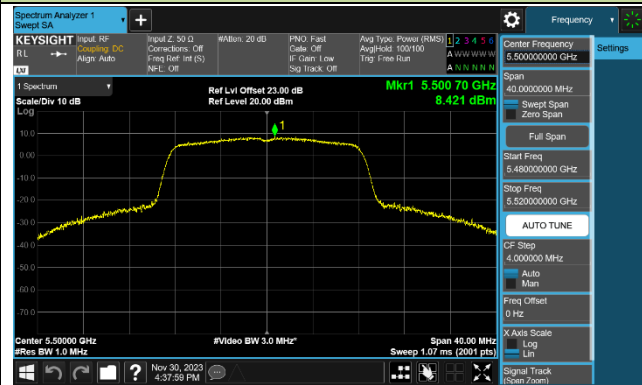
Channel 60 (5300MHz)



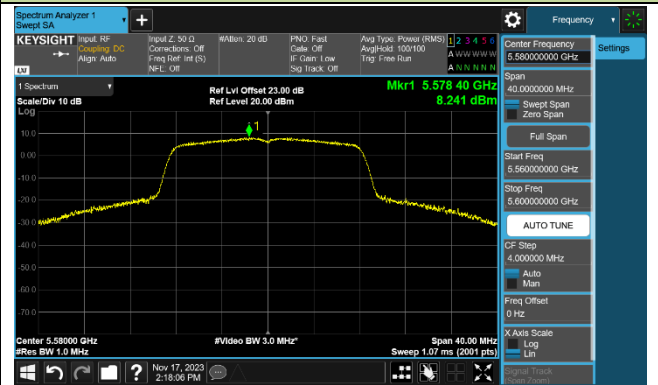
Channel 64 (5320MHz)

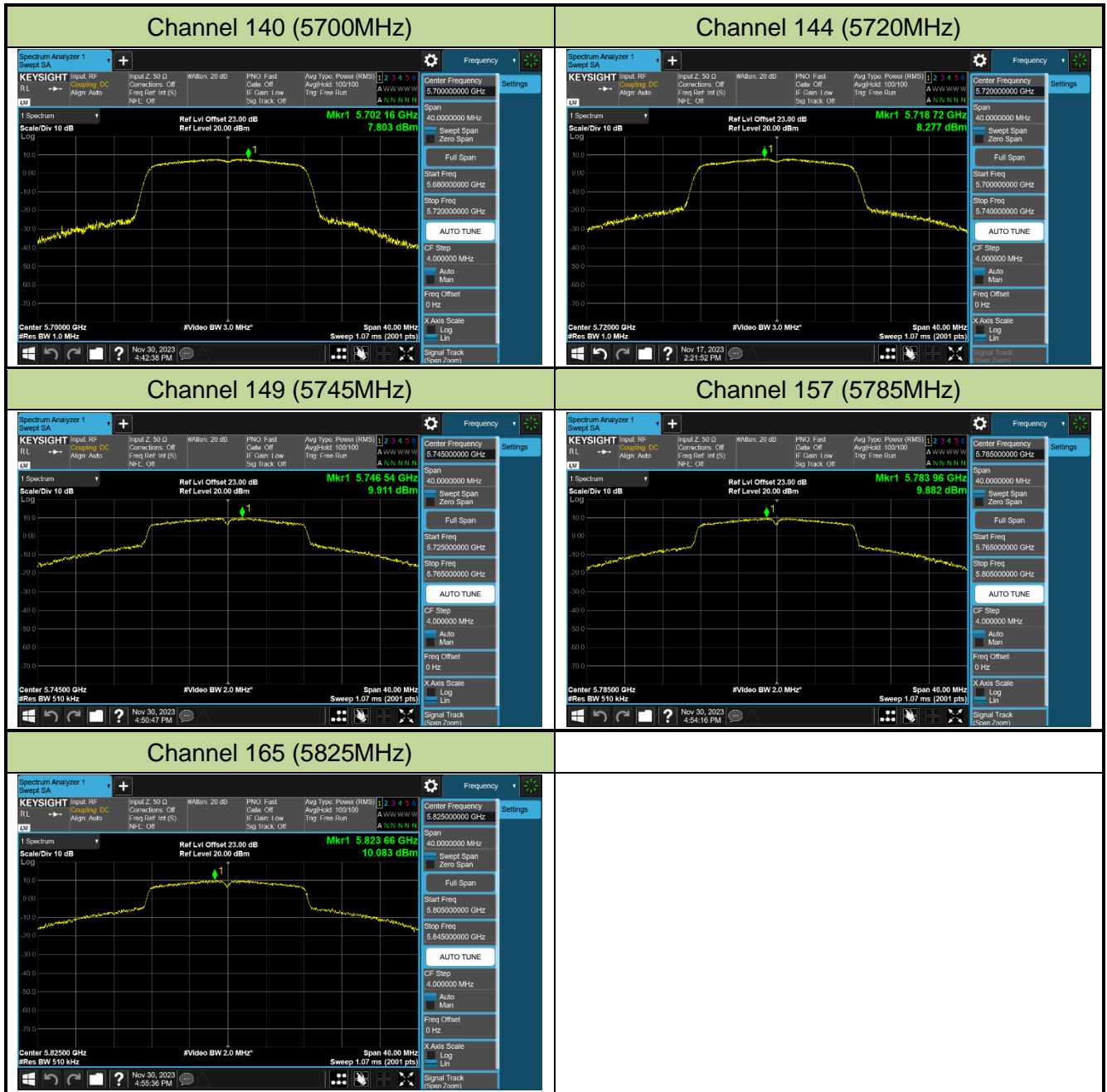


Channel 100 (5500MHz)



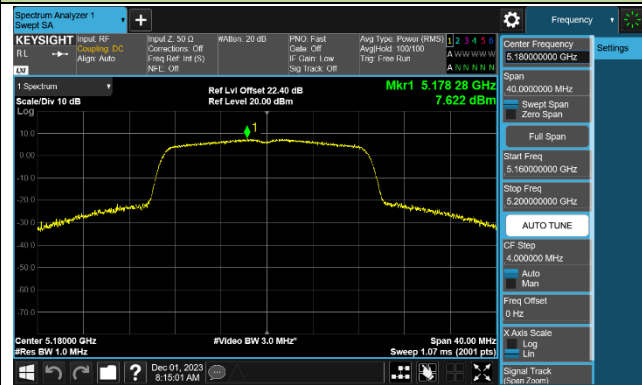
Channel 116 (5580MHz)



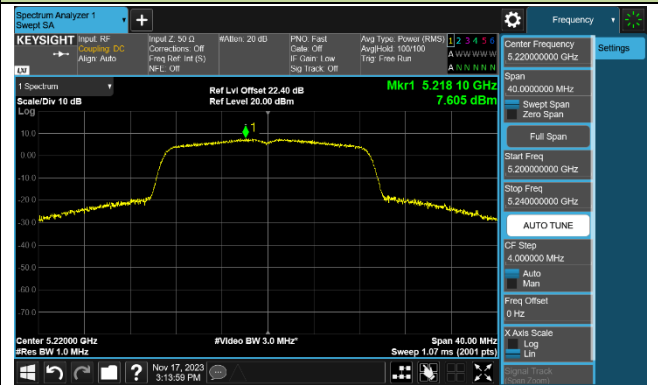


802.11ac-VHT20 Power Spectral Density - Ant 0

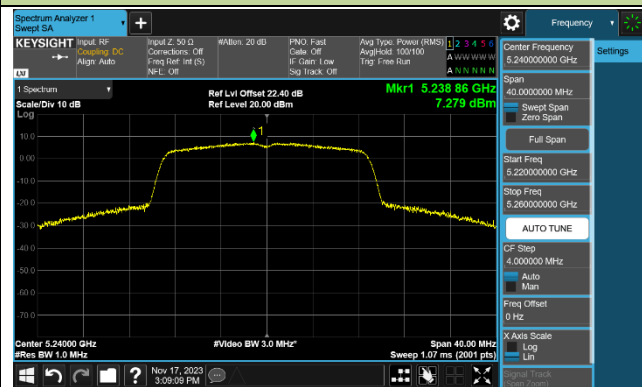
Channel 36 (5180MHz)



Channel 44 (5220MHz)



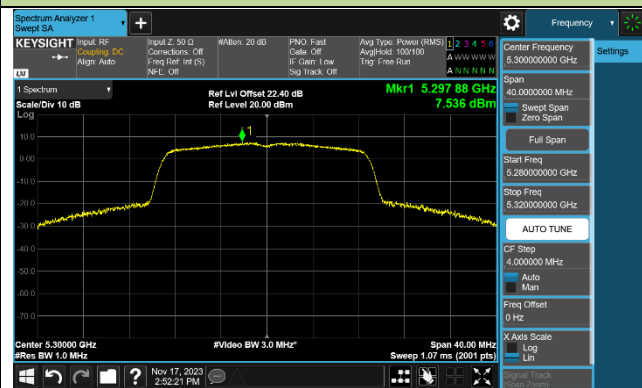
Channel 48 (5240MHz)



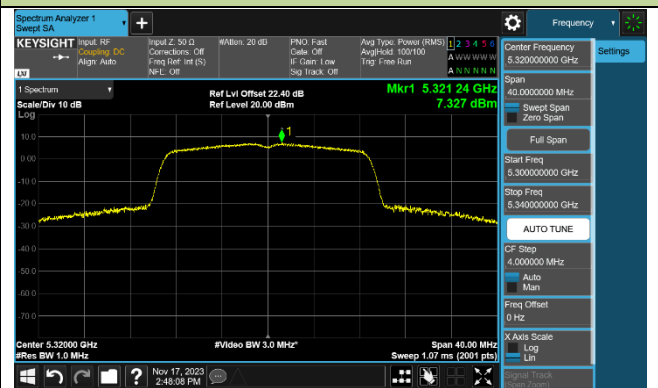
Channel 52 (5260MHz)



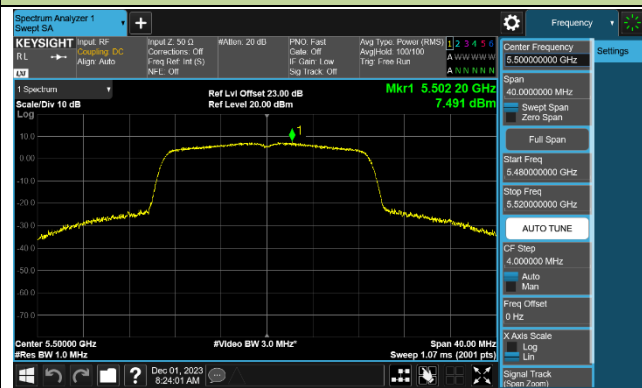
Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)

