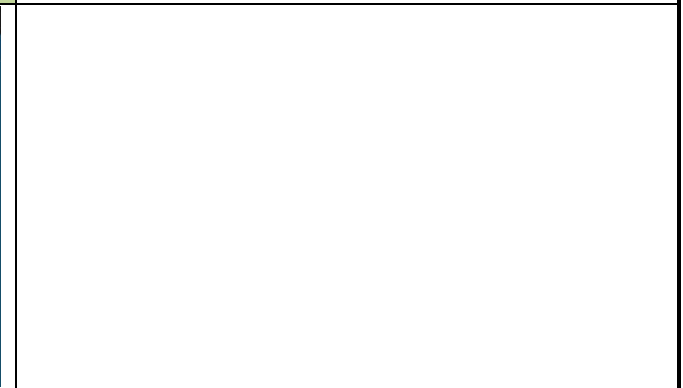
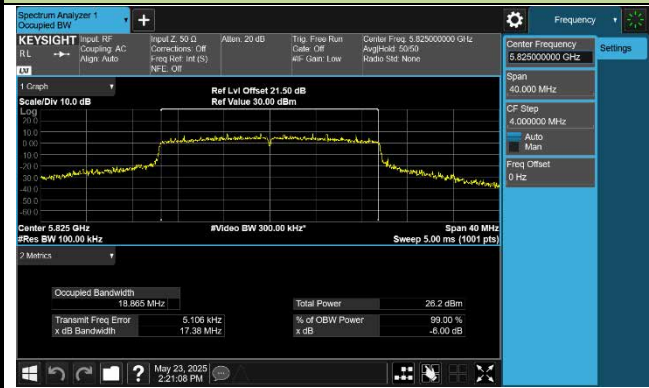
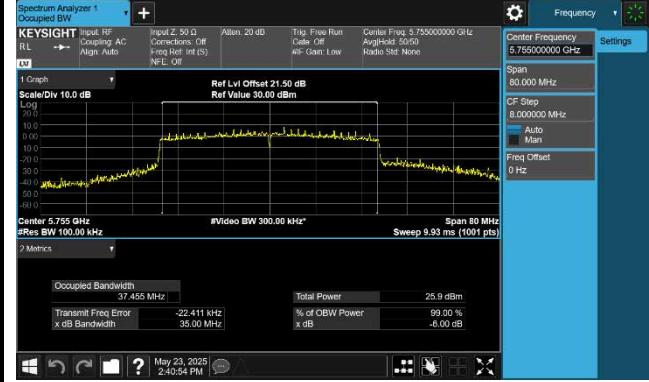


**Channel 165 (5825MHz)**

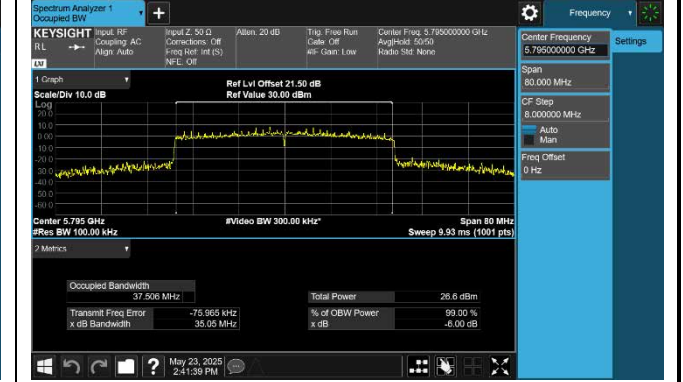


**802.11ax-HE40 6dB Bandwidth**

**Channel 151 (5755MHz)**

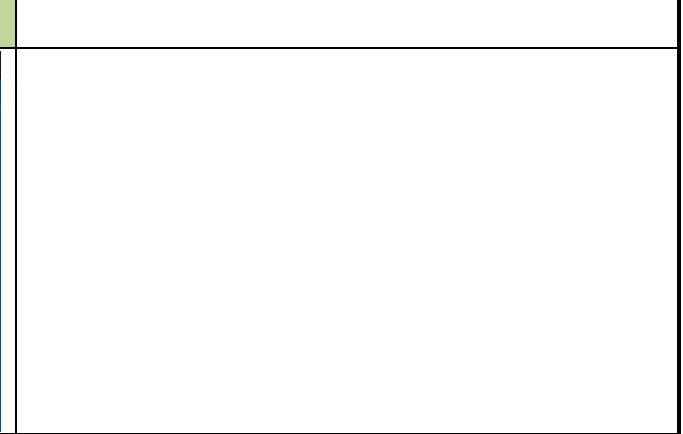


**Channel 159 (5795MHz)**



**802.11ax-HE80 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.

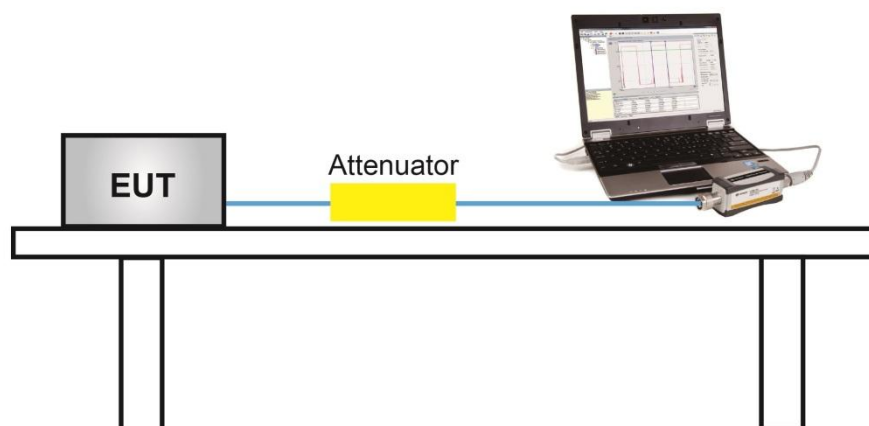
### 7.4.2. Test Procedure Used

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	AX6000 Wi-Fi 6 SOHO Router	Temperature	25°C
Test Engineer	Fran	Relative Humidity	56%
Test Site	SR7	Test Date	2025/5/3

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
CDD Mode										
11a	6Mbps	36	5180	14.66	15.15	15.04	13.92	20.74	≤ 29.05	Pass
11a	6Mbps	40	5200	14.71	14.57	15.30	13.71	20.63	≤ 29.05	Pass
11a	6Mbps	48	5240	14.76	14.31	16.22	13.77	20.88	≤ 29.05	Pass
11a	6Mbps	52	5260	9.28	9.48	8.71	9.05	15.16	≤ 23.03	Pass
11a	6Mbps	60	5300	8.57	8.37	8.32	8.14	14.37	≤ 23.03	Pass
11a	6Mbps	64	5320	8.59	8.57	8.76	7.67	14.44	≤ 23.03	Pass
11a	6Mbps	100	5500	8.04	9.46	7.25	8.98	14.54	≤ 23.03	Pass
11a	6Mbps	116	5580	8.38	10.11	7.36	9.25	14.91	≤ 23.03	Pass
11a	6Mbps	140	5700	8.68	8.99	8.22	7.26	14.36	≤ 23.03	Pass
11a	6Mbps	144	5720	8.96	9.32	8.14	7.34	14.53	≤ 22.60	Pass
11a	6Mbps	149	5745	21.45	22.06	20.60	21.97	27.58	≤ 29.05	Pass
11a	6Mbps	157	5785	21.95	22.46	22.30	22.99	28.46	≤ 29.05	Pass
11a	6Mbps	165	5825	22.41	22.10	22.38	22.75	28.44	≤ 29.05	Pass
11ac-VHT20	MCS0	36	5180	14.65	15.12	14.99	13.87	20.70	≤ 29.05	Pass
11ac-VHT20	MCS0	40	5200	14.62	14.87	15.36	13.76	20.71	≤ 29.05	Pass
11ac-VHT20	MCS0	48	5240	14.41	14.23	16.14	13.44	20.69	≤ 29.05	Pass
11ac-VHT20	MCS0	52	5260	8.08	8.51	7.80	7.93	14.11	≤ 23.03	Pass
11ac-VHT20	MCS0	60	5300	8.68	9.03	8.57	8.25	14.66	≤ 23.03	Pass
11ac-VHT20	MCS0	64	5320	8.69	8.85	8.71	8.01	14.60	≤ 23.03	Pass
11ac-VHT20	MCS0	100	5500	8.13	9.20	7.24	8.76	14.41	≤ 23.03	Pass
11ac-VHT20	MCS0	116	5580	8.05	9.65	6.52	8.20	14.27	≤ 23.03	Pass
11ac-VHT20	MCS0	140	5700	9.34	9.75	8.41	7.69	14.89	≤ 23.03	Pass
11ac-VHT20	MCS0	144	5720	9.23	9.55	8.63	7.54	14.82	≤ 22.75	Pass
11ac-VHT20	MCS0	149	5745	19.60	20.36	19.36	20.04	25.88	≤ 29.05	Pass
11ac-VHT20	MCS0	157	5785	21.75	23.10	22.13	23.01	28.56	≤ 29.05	Pass
11ac-VHT20	MCS0	165	5825	22.43	22.29	22.03	22.48	28.33	≤ 29.05	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
11ac-VHT40	MCS0	38	5190	15.30	14.79	16.35	13.82	21.18	≤ 29.05	Pass
11ac-VHT40	MCS0	46	5230	17.44	17.62	18.35	16.41	23.53	≤ 29.05	Pass
11ac-VHT40	MCS0	54	5270	11.40	12.02	10.92	11.10	17.40	≤ 23.03	Pass
11ac-VHT40	MCS0	62	5310	11.27	11.24	10.85	10.02	16.89	≤ 23.03	Pass
11ac-VHT40	MCS0	102	5510	11.64	12.56	10.83	11.53	17.70	≤ 23.03	Pass
11ac-VHT40	MCS0	110	5550	12.10	11.94	10.79	11.40	17.61	≤ 23.03	Pass
11ac-VHT40	MCS0	134	5670	12.34	12.46	11.51	10.93	17.87	≤ 23.03	Pass
11ac-VHT40	MCS0	142	5710	12.09	11.91	11.50	11.03	17.67	≤ 23.03	Pass
11ac-VHT40	MCS0	151	5755	21.68	22.16	22.03	22.78	28.20	≤ 29.05	Pass
11ac-VHT40	MCS0	159	5795	21.89	22.93	22.21	22.80	28.50	≤ 29.05	Pass
11ac-VHT80	MCS0	42	5210	8.40	8.84	8.82	7.63	14.47	≤ 29.05	Pass
11ac-VHT80	MCS0	58	5290	7.32	7.67	7.38	7.07	13.39	≤ 23.03	Pass
11ac-VHT80	MCS0	106	5530	14.58	15.09	13.04	14.16	20.30	≤ 23.03	Pass
11ac-VHT80	MCS0	122	5610	14.63	15.77	13.32	14.86	20.75	≤ 23.03	Pass
11ac-VHT80	MCS0	138	5690	14.69	14.32	13.84	13.40	20.11	≤ 23.03	Pass
11ac-VHT80	MCS0	155	5775	22.08	22.55	21.01	22.42	28.08	≤ 29.05	Pass
11ac-VHT160	MCS0	50	5250	7.42	7.31	8.95	6.99	13.76	≤ 23.03	Pass
11ac-VHT160	MCS0	114	5570	11.99	12.52	11.05	12.06	17.96	≤ 23.03	Pass
11ax-HE20	MCS0	36	5180	15.04	15.66	15.17	14.30	21.09	≤ 29.05	Pass
11ax-HE20	MCS0	40	5200	14.94	15.23	15.54	14.06	21.00	≤ 29.05	Pass
11ax-HE20	MCS0	48	5240	14.18	14.05	15.42	13.21	20.31	≤ 29.05	Pass
11ax-HE20	MCS0	52	5260	8.06	8.41	7.36	7.58	13.89	≤ 23.03	Pass
11ax-HE20	MCS0	60	5300	8.87	8.78	8.75	8.31	14.70	≤ 23.03	Pass
11ax-HE20	MCS0	64	5320	8.73	8.80	8.91	8.22	14.69	≤ 23.03	Pass
11ax-HE20	MCS0	100	5500	8.02	9.17	7.04	8.56	14.29	≤ 23.03	Pass
11ax-HE20	MCS0	116	5580	7.92	9.75	6.61	8.37	14.33	≤ 23.03	Pass
11ax-HE20	MCS0	140	5700	8.85	8.91	7.91	6.83	14.22	≤ 23.03	Pass
11ax-HE20	MCS0	144	5720	8.64	9.05	8.14	7.10	14.31	≤ 22.84	Pass
11ax-HE20	MCS0	149	5745	19.51	20.12	19.13	19.70	25.65	≤ 29.05	Pass
11ax-HE20	MCS0	157	5785	21.55	22.77	21.91	22.90	28.34	≤ 29.05	Pass
11ax-HE20	MCS0	165	5825	22.72	21.92	22.55	22.68	28.50	≤ 29.05	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
11ax-HE40	MCS0	38	5190	14.24	14.73	14.29	13.20	20.17	≤ 29.05	Pass
11ax-HE40	MCS0	46	5230	17.66	17.85	18.83	16.92	23.89	≤ 29.05	Pass
11ax-HE40	MCS0	54	5270	11.19	11.17	10.67	10.55	16.93	≤ 23.03	Pass
11ax-HE40	MCS0	62	5310	10.99	11.03	10.85	9.96	16.75	≤ 23.03	Pass
11ax-HE40	MCS0	102	5510	11.06	11.80	10.17	11.13	17.10	≤ 23.03	Pass
11ax-HE40	MCS0	110	5550	11.19	11.71	10.34	11.00	17.11	≤ 23.03	Pass
11ax-HE40	MCS0	134	5670	11.70	11.77	11.01	10.68	17.33	≤ 23.03	Pass
11ax-HE40	MCS0	142	5710	11.65	11.65	11.13	10.65	17.31	≤ 23.03	Pass
11ax-HE40	MCS0	151	5755	22.18	23.13	22.20	22.40	28.52	≤ 29.05	Pass
11ax-HE40	MCS0	159	5795	21.70	23.22	21.79	22.65	28.41	≤ 29.05	Pass
11ax-HE80	MCS0	42	5210	8.92	9.24	9.53	8.23	15.03	≤ 29.05	Pass
11ax-HE80	MCS0	58	5290	7.31	8.03	7.39	7.06	13.48	≤ 23.03	Pass
11ax-HE80	MCS0	106	5530	14.42	15.06	13.16	14.20	20.28	≤ 23.03	Pass
11ax-HE80	MCS0	122	5610	14.10	14.99	12.52	14.22	20.07	≤ 23.03	Pass
11ax-HE80	MCS0	138	5690	14.68	14.07	13.39	12.84	19.82	≤ 23.03	Pass
11ax-HE80	MCS0	155	5775	22.03	22.64	21.23	22.50	28.15	≤ 29.05	Pass
11ax-HE160	MCS0	50	5250	9.20	9.22	10.97	8.45	15.58	≤ 23.03	Pass
11ax-HE160	MCS0	114	5570	13.96	14.63	13.07	13.44	19.84	≤ 23.03	Pass

Note 1:

The Total Average Power (dBm) =  $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$ .

Note 2:

For 5250- 5350MHz and 5470 - 5725MHz Band: Average Power Limit (dBm) = 23.98 dBm.

For 5150 - 5250MHz and 5725 - 5850MHz Bands: Average Power Limit (dBm) = 30 dBm.

For Channel 144 (5720MHz), Average Power Limit (dBm) =  $11 + 10 \cdot \log(5\text{MHz} + \text{BW}_{26\text{dBc}}/2)$

Product	AX6000 Wi-Fi 6 SOHO Router	Temperature	25°C
Test Engineer	Fran	Relative Humidity	56%
Test Site	SR7	Test Date	2025/5/3

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
Beamforming Mode										
11ac-VHT20	MCS0	36	5180	14.65	15.12	14.99	13.87	20.70	≤ 23.03	Pass
11ac-VHT20	MCS0	40	5200	14.62	14.87	15.36	13.76	20.71	≤ 23.03	Pass
11ac-VHT20	MCS0	48	5240	14.41	14.23	16.14	13.44	20.69	≤ 23.03	Pass
11ac-VHT20	MCS0	52	5260	8.08	8.51	7.80	7.93	14.11	≤ 17.01	Pass
11ac-VHT20	MCS0	60	5300	8.68	9.03	8.57	8.25	14.66	≤ 17.01	Pass
11ac-VHT20	MCS0	64	5320	8.69	8.85	8.71	8.01	14.60	≤ 17.01	Pass
11ac-VHT20	MCS0	100	5500	8.13	9.20	7.24	8.76	14.41	≤ 17.01	Pass
11ac-VHT20	MCS0	116	5580	8.05	9.65	6.52	8.20	14.27	≤ 17.01	Pass
11ac-VHT20	MCS0	140	5700	9.34	9.75	8.41	7.69	14.89	≤ 17.01	Pass
11ac-VHT20	MCS0	144	5720	9.23	9.55	8.63	7.54	14.82	≤ 15.78	Pass
11ac-VHT20	MCS0	149	5745	16.26	17.02	16.07	16.67	22.54	≤ 23.03	Pass
11ac-VHT20	MCS0	157	5785	16.64	17.27	16.19	17.01	22.82	≤ 23.03	Pass
11ac-VHT20	MCS0	165	5825	16.77	16.68	16.38	16.78	22.68	≤ 23.03	Pass
11ac-VHT40	MCS0	38	5190	15.30	14.79	16.35	13.82	21.18	≤ 23.03	Pass
11ac-VHT40	MCS0	46	5230	16.31	16.55	17.63	15.30	22.55	≤ 23.03	Pass
11ac-VHT40	MCS0	54	5270	10.46	10.91	10.41	9.89	16.45	≤ 17.01	Pass
11ac-VHT40	MCS0	62	5310	11.27	11.24	10.85	10.02	16.89	≤ 17.01	Pass
11ac-VHT40	MCS0	102	5510	10.09	11.51	9.37	10.90	16.56	≤ 17.01	Pass
11ac-VHT40	MCS0	110	5550	10.35	11.34	9.44	10.35	16.44	≤ 17.01	Pass
11ac-VHT40	MCS0	134	5670	11.27	11.64	10.25	9.57	16.78	≤ 17.01	Pass
11ac-VHT40	MCS0	142	5710	10.97	11.34	10.10	9.35	16.53	≤ 17.01	Pass
11ac-VHT40	MCS0	151	5755	16.60	17.41	16.42	17.21	22.95	≤ 23.03	Pass
11ac-VHT40	MCS0	159	5795	16.39	17.54	16.43	17.27	22.96	≤ 23.03	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
11ac-VHT80	MCS0	42	5210	8.40	8.84	8.82	7.63	14.47	≤ 23.03	Pass
11ac-VHT80	MCS0	58	5290	7.32	7.67	7.38	7.07	13.39	≤ 17.01	Pass
11ac-VHT80	MCS0	106	5530	10.55	11.57	9.53	10.23	16.55	≤ 17.01	Pass
11ac-VHT80	MCS0	122	5610	10.67	11.62	9.57	11.17	16.84	≤ 17.01	Pass
11ac-VHT80	MCS0	138	5690	10.61	11.57	10.34	10.51	16.81	≤ 17.01	Pass
11ac-VHT80	MCS0	155	5775	16.27	17.14	15.95	16.86	22.60	≤ 23.03	Pass
11ac-VHT160	MCS0	50	5250	7.42	7.31	8.95	6.99	13.76	≤ 17.01	Pass
11ac-VHT160	MCS0	114	5570	10.93	11.81	10.43	10.49	16.97	≤ 17.01	Pass
11ax-HE20	MCS0	36	5180	15.04	15.66	15.17	14.30	21.09	≤ 23.03	Pass
11ax-HE20	MCS0	40	5200	14.94	15.23	15.54	14.06	21.00	≤ 23.03	Pass
11ax-HE20	MCS0	48	5240	14.18	14.05	15.42	13.21	20.31	≤ 23.03	Pass
11ax-HE20	MCS0	52	5260	8.06	8.41	7.36	7.58	13.89	≤ 17.01	Pass
11ax-HE20	MCS0	60	5300	8.87	8.78	8.75	8.31	14.70	≤ 17.01	Pass
11ax-HE20	MCS0	64	5320	8.73	8.80	8.91	8.22	14.69	≤ 17.01	Pass
11ax-HE20	MCS0	100	5500	8.02	9.17	7.04	8.56	14.29	≤ 17.01	Pass
11ax-HE20	MCS0	116	5580	7.92	9.75	6.61	8.37	14.33	≤ 17.01	Pass
11ax-HE20	MCS0	140	5700	8.85	8.91	7.91	6.83	14.22	≤ 17.01	Pass
11ax-HE20	MCS0	144	5720	8.64	9.05	8.14	7.10	14.31	≤ 15.86	Pass
11ax-HE20	MCS0	149	5745	16.09	17.04	16.19	16.91	22.60	≤ 23.03	Pass
11ax-HE20	MCS0	157	5785	16.55	16.85	16.07	17.24	22.72	≤ 23.03	Pass
11ax-HE20	MCS0	165	5825	17.14	16.91	16.70	17.10	22.99	≤ 23.03	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
11ax-HE40	MCS0	38	5190	14.24	14.73	14.29	13.20	20.17	≤ 23.03	Pass
11ax-HE40	MCS0	46	5230	16.26	16.43	17.52	15.46	22.50	≤ 23.03	Pass
11ax-HE40	MCS0	54	5270	11.19	11.17	10.67	10.55	16.93	≤ 17.01	Pass
11ax-HE40	MCS0	62	5310	10.99	11.03	10.85	9.96	16.75	≤ 17.01	Pass
11ax-HE40	MCS0	102	5510	10.22	11.31	9.41	11.07	16.59	≤ 17.01	Pass
11ax-HE40	MCS0	110	5550	10.56	11.59	9.57	10.79	16.71	≤ 17.01	Pass
11ax-HE40	MCS0	134	5670	11.11	11.32	10.28	10.55	16.86	≤ 17.01	Pass
11ax-HE40	MCS0	142	5710	10.94	10.86	10.67	10.52	16.77	≤ 17.01	Pass
11ax-HE40	MCS0	151	5755	15.93	16.80	15.77	17.05	22.44	≤ 23.03	Pass
11ax-HE40	MCS0	159	5795	15.83	17.12	16.05	17.24	22.63	≤ 23.03	Pass
11ax-HE80	MCS0	42	5210	8.92	9.24	9.53	8.23	15.03	≤ 23.03	Pass
11ax-HE80	MCS0	58	5290	7.31	8.03	7.39	7.06	13.48	≤ 17.01	Pass
11ax-HE80	MCS0	106	5530	10.78	11.89	9.66	10.88	16.89	≤ 17.01	Pass
11ax-HE80	MCS0	122	5610	10.33	12.40	9.12	10.71	16.82	≤ 17.01	Pass
11ax-HE80	MCS0	138	5690	11.09	11.34	9.47	9.52	16.46	≤ 17.01	Pass
11ax-HE80	MCS0	155	5775	16.45	16.31	16.47	17.09	22.61	≤ 23.03	Pass
11ax-HE160	MCS0	50	5250	9.20	9.22	10.97	8.45	15.58	≤ 17.01	Pass
11ax-HE160	MCS0	114	5570	10.86	11.65	10.19	10.46	16.85	≤ 17.01	Pass

Note 1:

The Total Average Power (dBm) =  $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$ .

Note 2:

For 5125 - 5250MHz Band: Average Power Limit (dBm) = 30 - (12.97- 6) = 23.03dBm

For 5250 - 5350MHz and 5470 - 5725MHz Band: Average Power Limit (dBm) = 23.98 - (12.97- 6) = 17.01dBm.

For 5725 - 5850MHz Band: Average Power Limit (dBm) = 30- (12.97- 6) = 23.03dBm.

For Channel 144 (5720MHz), Average Power Limit (dBm) =  $11 + 10 \cdot \log(5\text{MHz} + \text{BW}_{26\text{dBc}}/2) - (12.97- 6)$

## 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.

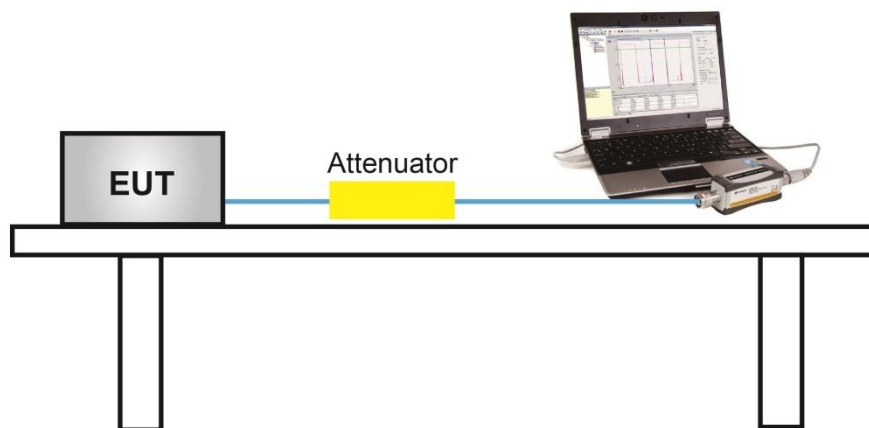
### 7.5.2. Test Procedure Used

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.

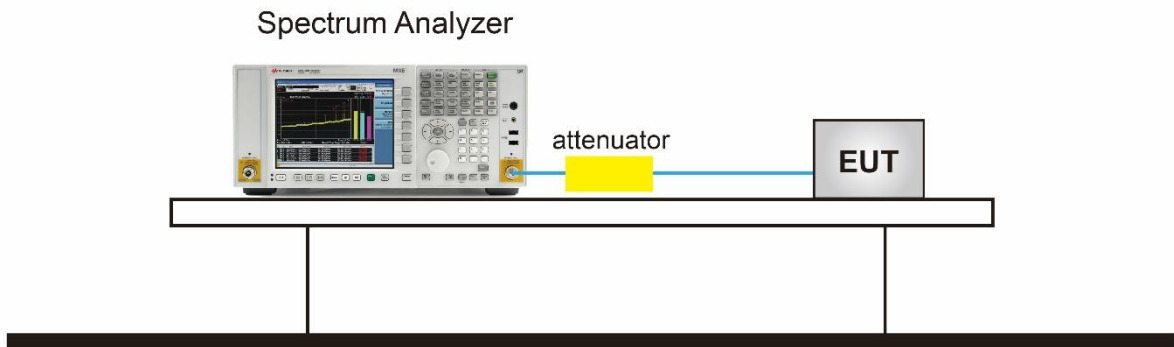
### 7.6.2. Test Procedure Used

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	AX6000 Wi-Fi 6 SOHO Router	Temperature	25°C
Test Engineer	Fran	Relative Humidity	56%
Test Site	SR7	Test Date	2025/5/8~2025/5/22
Mode	Power Spectral Density (U-NII- 1/-2a / -2c) CDD Mode		

Test Mode	Data Rate /MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Ant 3 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11a	6Mbps	36	5180	2.761	4.058	4.132	2.701	96.15%	9.658	≤ 10.03	Pass
11a	6Mbps	40	5200	3.332	3.818	4.379	2.684	96.15%	9.789	≤ 10.03	Pass
11a	6Mbps	48	5240	2.969	2.698	4.506	2.302	96.15%	9.394	≤ 10.03	Pass
11a	6Mbps	52	5260	-1.964	-1.691	-2.897	-3.049	96.15%	3.830	≤ 4.03	Pass
11a	6Mbps	60	5300	-2.019	-2.371	-1.858	-3.643	96.15%	3.772	≤ 4.03	Pass
11a	6Mbps	64	5320	-2.018	-2.620	-1.768	-3.359	96.15%	3.792	≤ 4.03	Pass
11a	6Mbps	100	5500	-2.530	-1.523	-3.223	-2.316	96.15%	3.836	≤ 4.03	Pass
11a	6Mbps	116	5580	-2.337	-1.170	-3.845	-2.333	96.15%	3.871	≤ 4.03	Pass
11a	6Mbps	140	5700	-1.875	-2.471	-1.770	-3.824	96.15%	3.779	≤ 4.03	Pass
11a	6Mbps	144	5720	-2.472	-1.764	-2.450	-2.858	96.15%	3.823	≤ 4.03	Pass
11ac-VHT20	MCS0	36	5180	3.144	3.841	3.526	2.716	96.13%	9.519	≤ 10.03	Pass
11ac-VHT20	MCS0	40	5200	3.505	3.377	3.849	2.690	96.13%	9.567	≤ 10.03	Pass
11ac-VHT20	MCS0	48	5240	2.956	3.093	4.962	2.166	96.13%	9.614	≤ 10.03	Pass
11ac-VHT20	MCS0	52	5260	-2.731	-2.464	-3.108	-2.628	96.13%	3.466	≤ 4.03	Pass
11ac-VHT20	MCS0	60	5300	-2.353	-1.959	-2.163	-2.638	96.13%	3.921	≤ 4.03	Pass
11ac-VHT20	MCS0	64	5320	-2.677	-2.300	-2.088	-2.060	96.13%	3.918	≤ 4.03	Pass
11ac-VHT20	MCS0	100	5500	-2.551	-1.744	-3.313	-2.256	96.13%	3.763	≤ 4.03	Pass
11ac-VHT20	MCS0	116	5580	-2.947	-1.718	-3.341	-2.654	96.13%	3.569	≤ 4.03	Pass
11ac-VHT20	MCS0	140	5700	-2.413	-1.758	-2.337	-3.263	96.13%	3.782	≤ 4.03	Pass
11ac-VHT20	MCS0	144	5720	-2.495	-1.980	-2.256	-2.887	96.13%	3.800	≤ 4.03	Pass

Test Mode	Data Rate /MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Ant 3 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11ac-VHT40	MCS0	38	5190	0.835	0.452	1.604	0.050	92.28%	7.143	≤ 10.03	Pass
11ac-VHT40	MCS0	46	5230	3.113	3.136	3.876	1.906	92.28%	9.433	≤ 10.03	Pass
11ac-VHT40	MCS0	54	5270	-2.713	-2.069	-3.176	-3.122	92.28%	3.623	≤ 4.03	Pass
11ac-VHT40	MCS0	62	5310	-2.722	-2.734	-2.737	-3.233	92.28%	3.518	≤ 4.03	Pass
11ac-VHT40	MCS0	102	5510	-3.119	-2.139	-3.570	-2.426	92.28%	3.592	≤ 4.03	Pass
11ac-VHT40	MCS0	110	5550	-3.168	-2.243	-3.217	-2.656	92.28%	3.567	≤ 4.03	Pass
11ac-VHT40	MCS0	134	5670	-2.421	-2.154	-2.637	-2.887	92.28%	3.853	≤ 4.03	Pass
11ac-VHT40	MCS0	142	5710	-2.738	-2.018	-2.704	-2.685	92.28%	3.844	≤ 4.03	Pass
11ac-VHT80	MCS0	42	5210	-8.821	-8.249	-8.065	-9.425	85.53%	-1.909	≤ 10.03	Pass
11ac-VHT80	MCS0	58	5290	-10.183	-9.088	-9.270	-9.262	85.53%	-2.731	≤ 4.03	Pass
11ac-VHT80	MCS0	106	5530	-3.538	-2.226	-3.295	-3.023	85.53%	3.708	≤ 4.03	Pass
11ac-VHT80	MCS0	122	5610	-3.470	-1.644	-3.884	-2.542	85.53%	3.902	≤ 4.03	Pass
11ac-VHT80	MCS0	138	5690	-3.002	-2.489	-3.575	-3.326	85.53%	3.621	≤ 4.03	Pass
11ac-VHT160	MCS0	50	5250	-13.137	-13.577	-11.791	-13.323	76.99%	-5.743	≤ 4.03	Pass
11ac-VHT160	MCS0	114	5570	-7.775	-7.175	-7.869	-7.279	76.99%	-0.358	≤ 4.03	Pass
11ax-HE20	MCS0	36	5180	3.123	3.502	2.964	2.087	84.82%	9.685	≤ 10.03	Pass
11ax-HE20	MCS0	40	5200	2.471	3.086	3.134	2.244	84.82%	9.486	≤ 10.03	Pass
11ax-HE20	MCS0	48	5240	2.718	2.484	4.326	1.792	84.82%	9.669	≤ 10.03	Pass
11ax-HE20	MCS0	52	5260	-3.310	-2.796	-3.181	-3.595	84.82%	3.525	≤ 4.03	Pass
11ax-HE20	MCS0	60	5300	-2.751	-2.720	-2.643	-3.304	84.82%	3.889	≤ 4.03	Pass
11ax-HE20	MCS0	64	5320	-3.062	-2.755	-2.677	-3.328	84.82%	3.788	≤ 4.03	Pass
11ax-HE20	MCS0	100	5500	-2.970	-2.097	-3.699	-2.956	84.82%	3.842	≤ 4.03	Pass
11ax-HE20	MCS0	116	5580	-3.582	-1.577	-3.763	-3.228	84.82%	3.790	≤ 4.03	Pass
11ax-HE20	MCS0	140	5700	-3.267	-2.494	-3.101	-4.361	84.82%	3.481	≤ 4.03	Pass
11ax-HE20	MCS0	144	5720	-3.475	-2.701	-3.236	-4.057	84.82%	3.396	≤ 4.03	Pass

Test Mode	Data Rate/MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Ant 3 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11ax-HE40	MCS0	38	5190	0.076	0.263	0.757	-0.134	85.09%	6.975	≤ 10.03	Pass
11ax-HE40	MCS0	46	5230	3.264	3.111	4.027	1.913	85.09%	9.865	≤ 10.03	Pass
11ax-HE40	MCS0	54	5270	-3.356	-3.146	-2.600	-3.471	85.09%	3.592	≤ 4.03	Pass
11ax-HE40	MCS0	62	5310	-3.637	-2.730	-2.532	-3.667	85.09%	3.611	≤ 4.03	Pass
11ax-HE40	MCS0	102	5510	-2.696	-2.613	-3.414	-2.893	85.09%	3.829	≤ 4.03	Pass
11ax-HE40	MCS0	110	5550	-3.140	-2.255	-3.305	-3.320	85.09%	3.740	≤ 4.03	Pass
11ax-HE40	MCS0	134	5670	-2.722	-2.304	-2.981	-3.290	85.09%	3.913	≤ 4.03	Pass
11ax-HE40	MCS0	142	5710	-2.774	-2.859	-2.609	-3.133	85.09%	3.882	≤ 4.03	Pass
11ax-HE80	MCS0	42	5210	-8.717	-8.125	-7.431	-8.583	84.42%	-1.428	≤ 10.03	Pass
11ax-HE80	MCS0	58	5290	-9.944	-9.005	-9.692	-9.837	84.42%	-2.848	≤ 4.03	Pass
11ax-HE80	MCS0	106	5530	-3.142	-2.071	-3.951	-3.075	84.42%	3.748	≤ 4.03	Pass
11ax-HE80	MCS0	122	5610	-3.883	-2.539	-4.408	-2.870	84.42%	3.396	≤ 4.03	Pass
11ax-HE80	MCS0	138	5690	-3.005	-2.436	-2.922	-3.651	84.42%	3.774	≤ 4.03	Pass
11ax-HE160	MCS0	50	5250	-11.418	-11.251	-9.310	-11.894	84.99%	-4.122	≤ 4.03	Pass
11ax-HE160	MCS0	114	5570	-5.603	-4.318	-6.226	-5.460	84.99%	1.381	≤ 4.03	Pass

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

Note 2:

For 5150 - 5250MHz Band: PSD Limit (dBm/MHz) = 17 - (12.97 - 6) = 10.03dBm/MHz.

For 5250 - 5350MHz and 5470 - 5725MHz Band: PSD Limit (dBm/MHz) = 11 - (12.97 - 6) = 4.03dBm/MHz.

Note 3: The power setting of Beamforming mode is not greater than CDD mode, so only CDD mode result was shown in this section.

Product	AX6000 Wi-Fi 6 SOHO Router	Temperature	25°C
Test Engineer	Fran	Relative Humidity	56%
Test Site	SR7	Test Date	2025/5/8~2025/5/22
Test Item	Power Spectral Density (U-NII-3) CDD Mode		

Test Mode	Data Rate/MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/510 KHz)	Ant 1 PSD (dBm/510 KHz)	Ant 2 PSD (dBm/510 KHz)	Ant 3 PSD (dBm/510 KHz)	Duty Cycle (%)	Total PSD(dBm/510kHz)	Limit (dBm/500kHz)	Result
11a	6Mbps	149	5745	6.834	7.446	7.246	8.011	96.15%	13.596	≤ 23.03	Pass
11a	6Mbps	157	5785	7.714	8.894	7.826	8.790	96.15%	14.530	≤ 23.03	Pass
11a	6Mbps	165	5825	8.599	8.465	8.142	8.826	96.15%	14.706	≤ 23.03	Pass
11ac-VHT20	MCS0	149	5745	5.517	6.310	6.431	6.577	96.13%	12.420	≤ 23.03	Pass
11ac-VHT20	MCS0	157	5785	8.485	9.193	8.287	9.080	96.13%	14.970	≤ 23.03	Pass
11ac-VHT20	MCS0	165	5825	8.193	8.964	8.700	8.812	96.13%	14.869	≤ 23.03	Pass
11ac-VHT40	MCS0	151	5755	4.759	6.217	5.013	5.977	92.28%	11.905	≤ 23.03	Pass
11ac-VHT40	MCS0	159	5795	5.486	6.172	5.385	6.515	92.28%	12.285	≤ 23.03	Pass
11ac-VHT80	MCS0	155	5775	2.118	3.317	2.166	3.588	85.53%	9.547	≤ 23.03	Pass
11ax-HE20	MCS0	149	5745	4.931	6.040	4.758	6.192	84.82%	12.263	≤ 23.03	Pass
11ax-HE20	MCS0	157	5785	7.225	8.483	7.920	8.366	84.82%	14.761	≤ 23.03	Pass
11ax-HE20	MCS0	165	5825	8.387	7.912	7.582	8.425	84.82%	14.826	≤ 23.03	Pass
11ax-HE40	MCS0	151	5755	4.829	5.192	4.130	5.277	85.09%	11.602	≤ 23.03	Pass
11ax-HE40	MCS0	159	5795	5.303	5.792	4.015	6.641	85.09%	12.261	≤ 23.03	Pass
11ax-HE80	MCS0	155	5775	2.537	3.279	2.090	3.290	84.42%	9.585	≤ 23.03	Pass

Note 1: 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) +  $10 \cdot \log (1/\text{Duty Cycle})$ .

Note 2: PSD Limit (dBm/500kHz) =  $30 - (12.97 - 6) = 23.03$  (dBm/500kHz).

Note 3: The power setting of Beamforming mode is not greater than CDD mode, so only CDD mode result was shown in this section.

### 802.11a Power Spectral Density - Ant 0

#### Channel 36 (5180MHz)



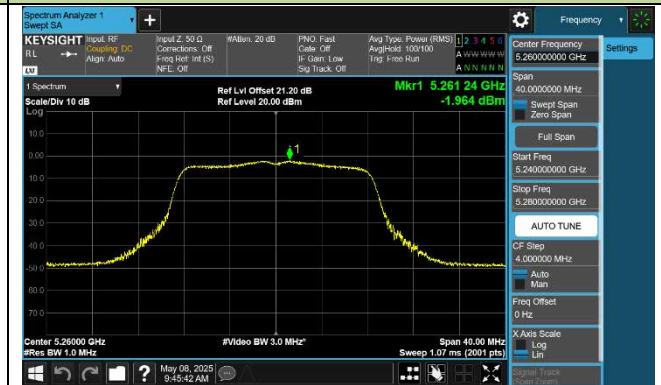
#### Channel 40 (5200MHz)



#### Channel 48 (5240MHz)



#### Channel 52 (5260MHz)



#### Channel 60 (5300MHz)



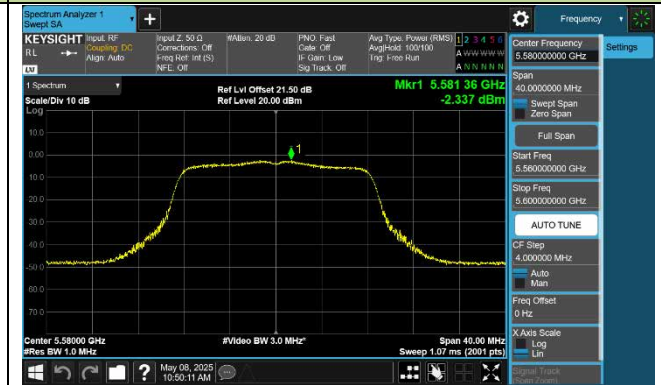
#### Channel 64 (5320MHz)

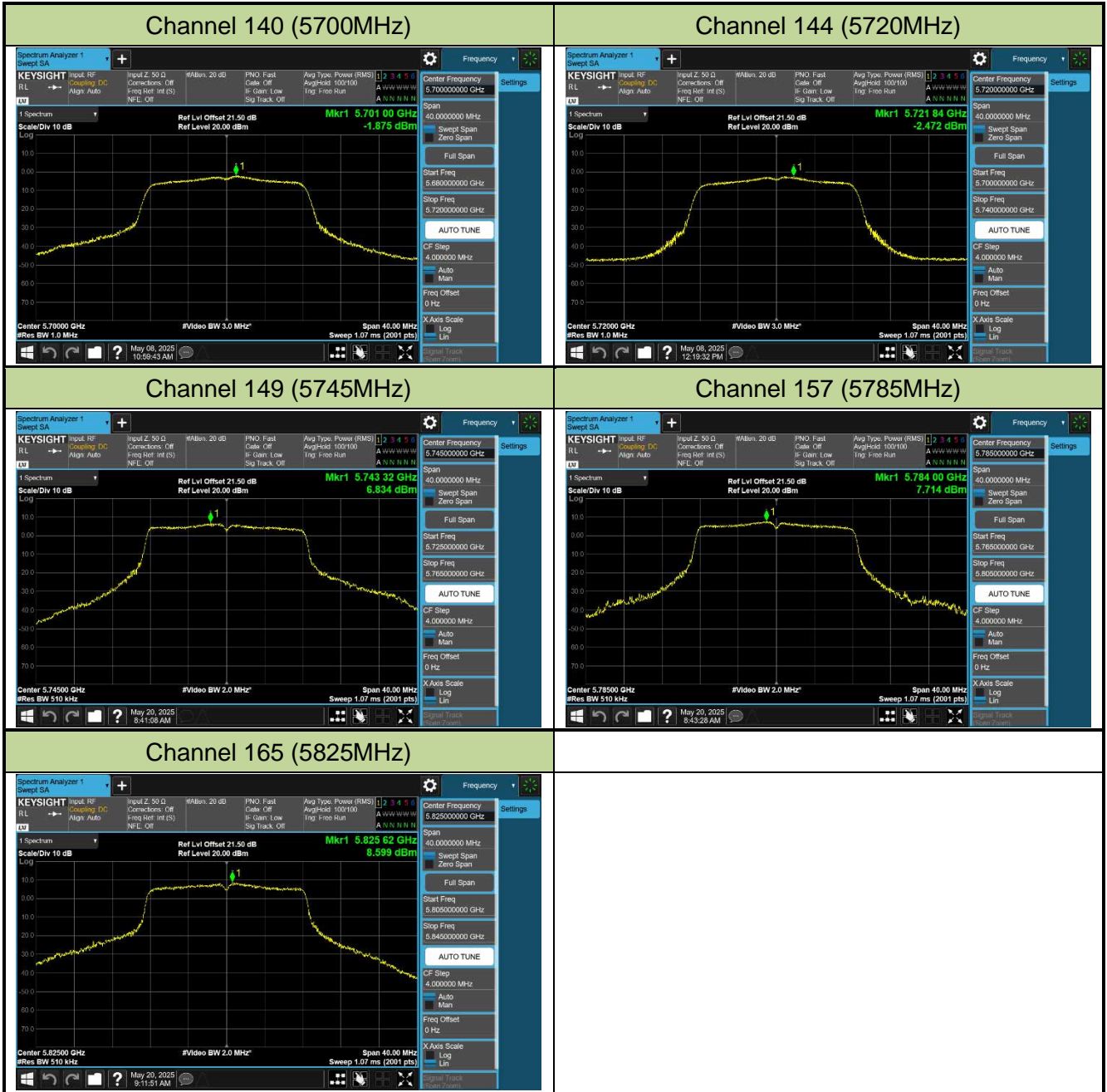


#### Channel 100 (5500MHz)



#### Channel 116 (5580MHz)





### 802.11ac-VHT20 Power Spectral Density - Ant 0

#### Channel 36 (5180MHz)



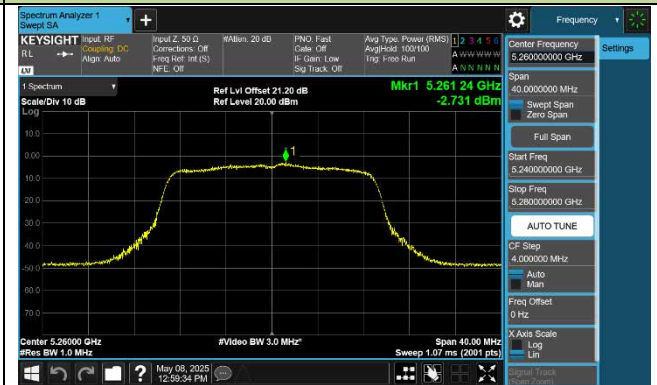
#### Channel 40 (5200MHz)



#### Channel 48 (5240MHz)



#### Channel 52 (5260MHz)



#### Channel 60 (5300MHz)



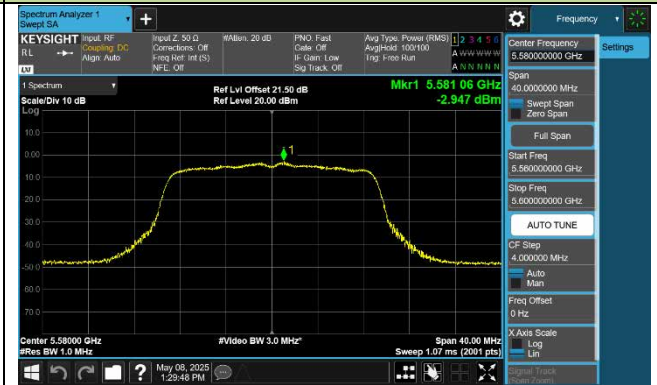
#### Channel 64 (5320MHz)

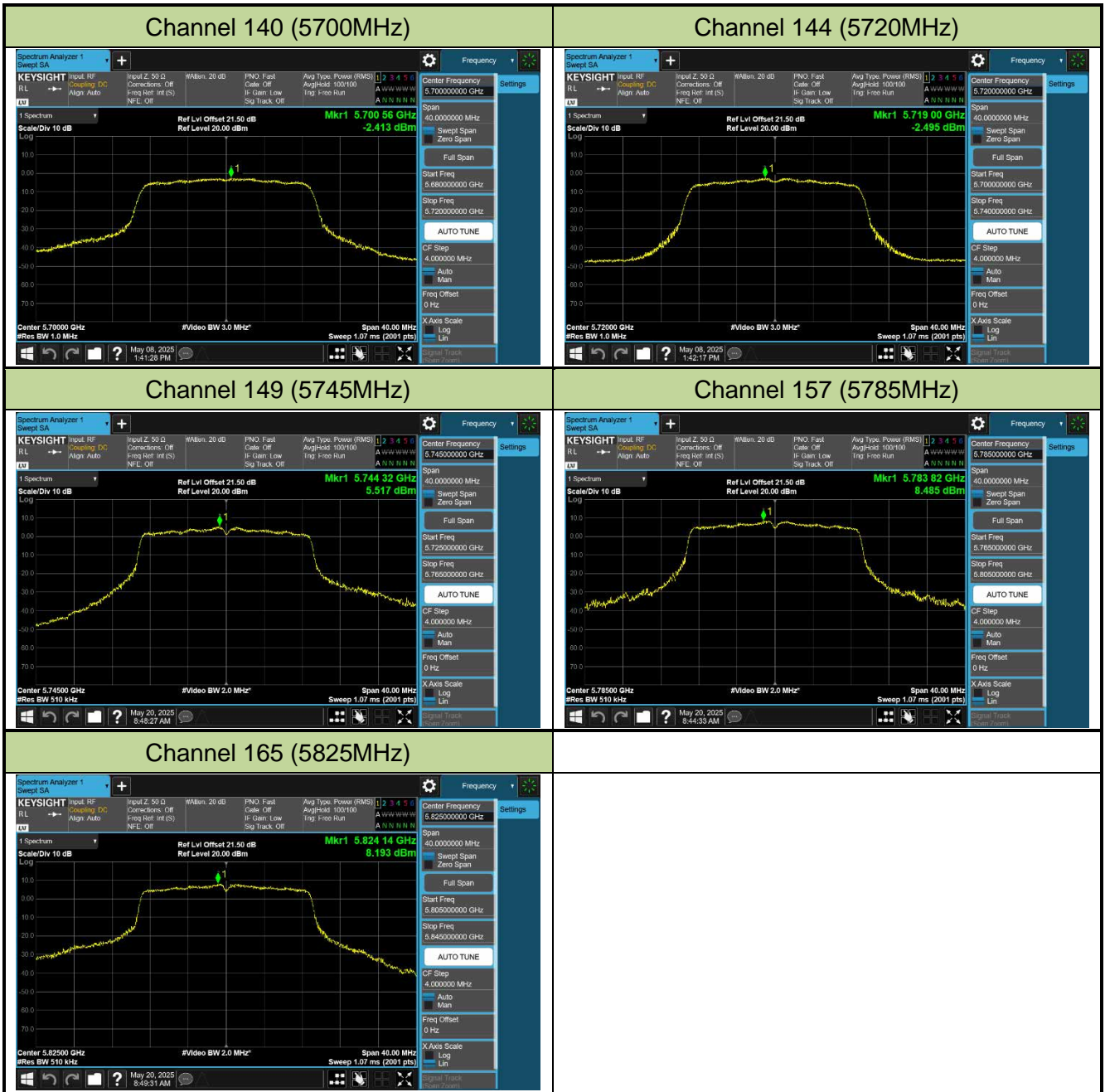


#### Channel 100 (5500MHz)



#### Channel 116 (5580MHz)





### 802.11ac-VHT40 Power Spectral Density - Ant 0

#### Channel 38 (5190MHz)



#### Channel 46 (5230MHz)



#### Channel 54 (5270MHz)



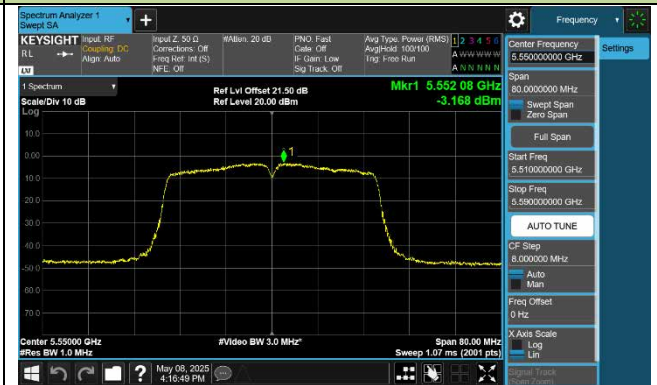
#### Channel 62 (5310MHz)



#### Channel 102 (5510MHz)



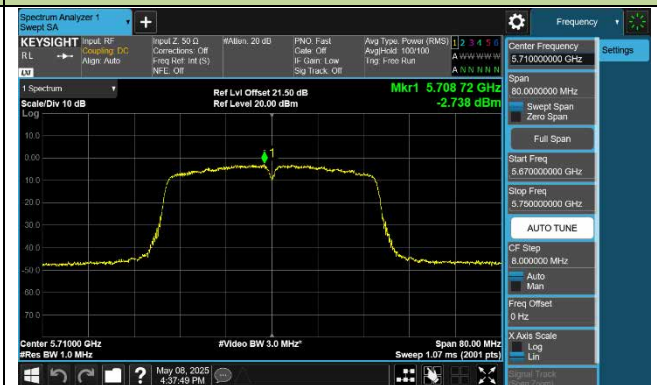
#### Channel 110 (5550MHz)

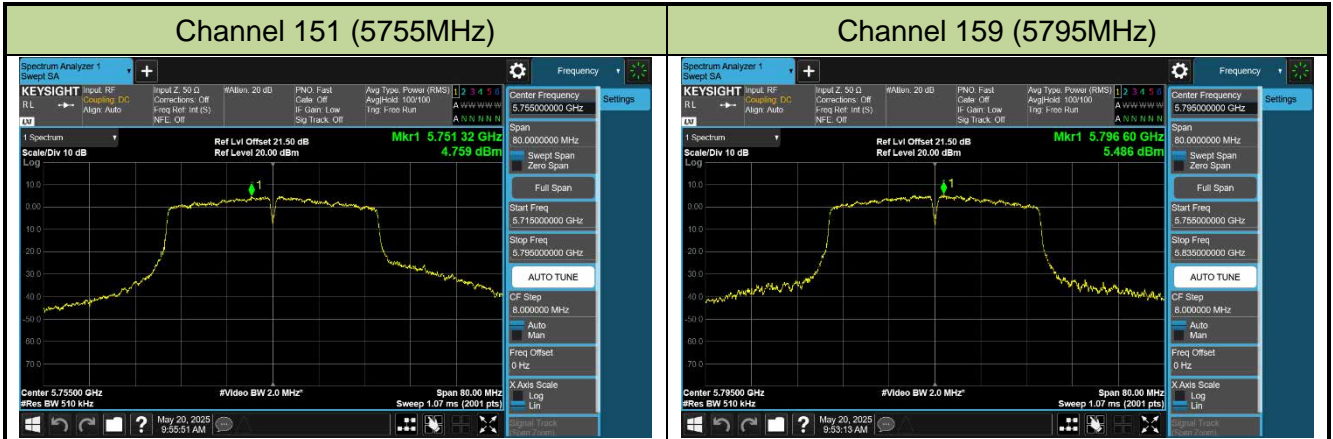


#### Channel 134 (5670MHz)

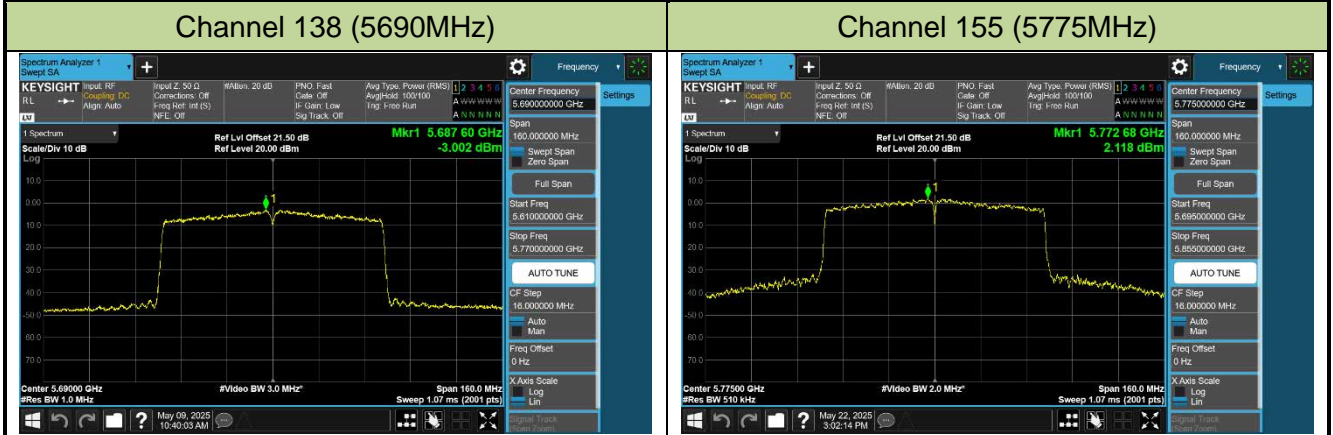
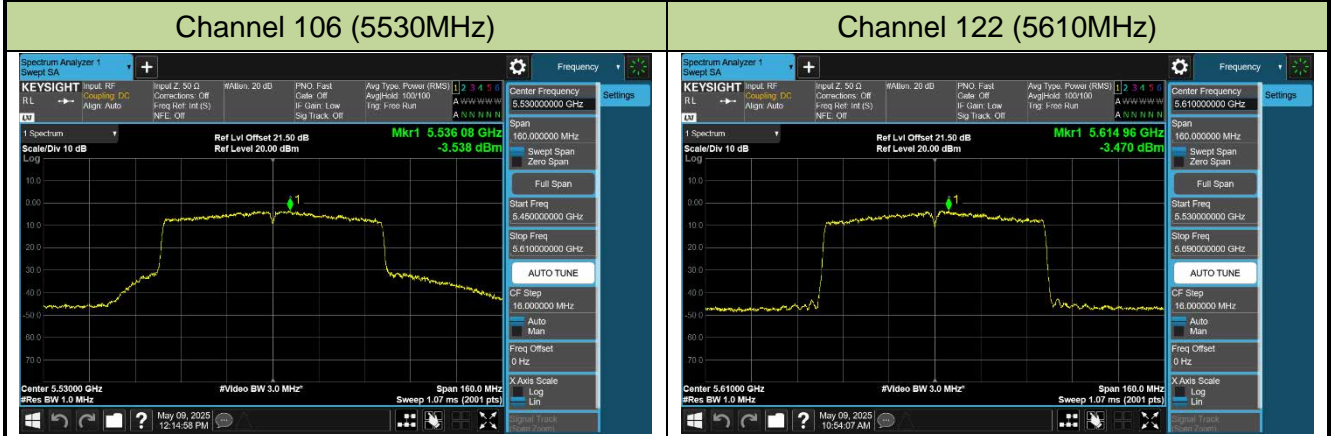


#### Channel 142 (5710MHz)





802.11ac-VHT80 Power Spectral Density - Ant 0



802.11ac-VHT160 Power Spectral Density - Ant 0

Channel 50 (5250MHz)



Channel 114 (5570MHz)



## 802.11ax-HE20 Power Spectral Density - Ant 0

Channel 36 (5180MHz)



Channel 40 (5200MHz)



Channel 48 (5240MHz)



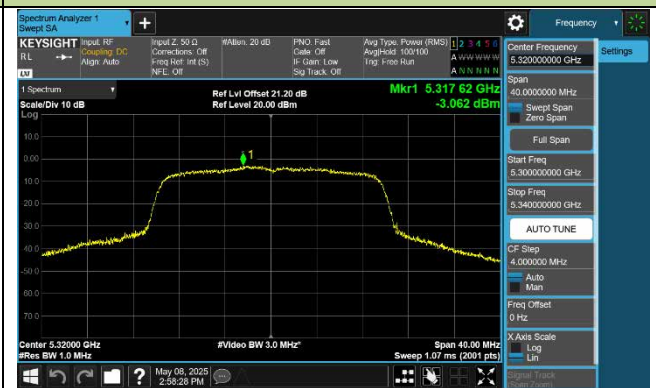
Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)

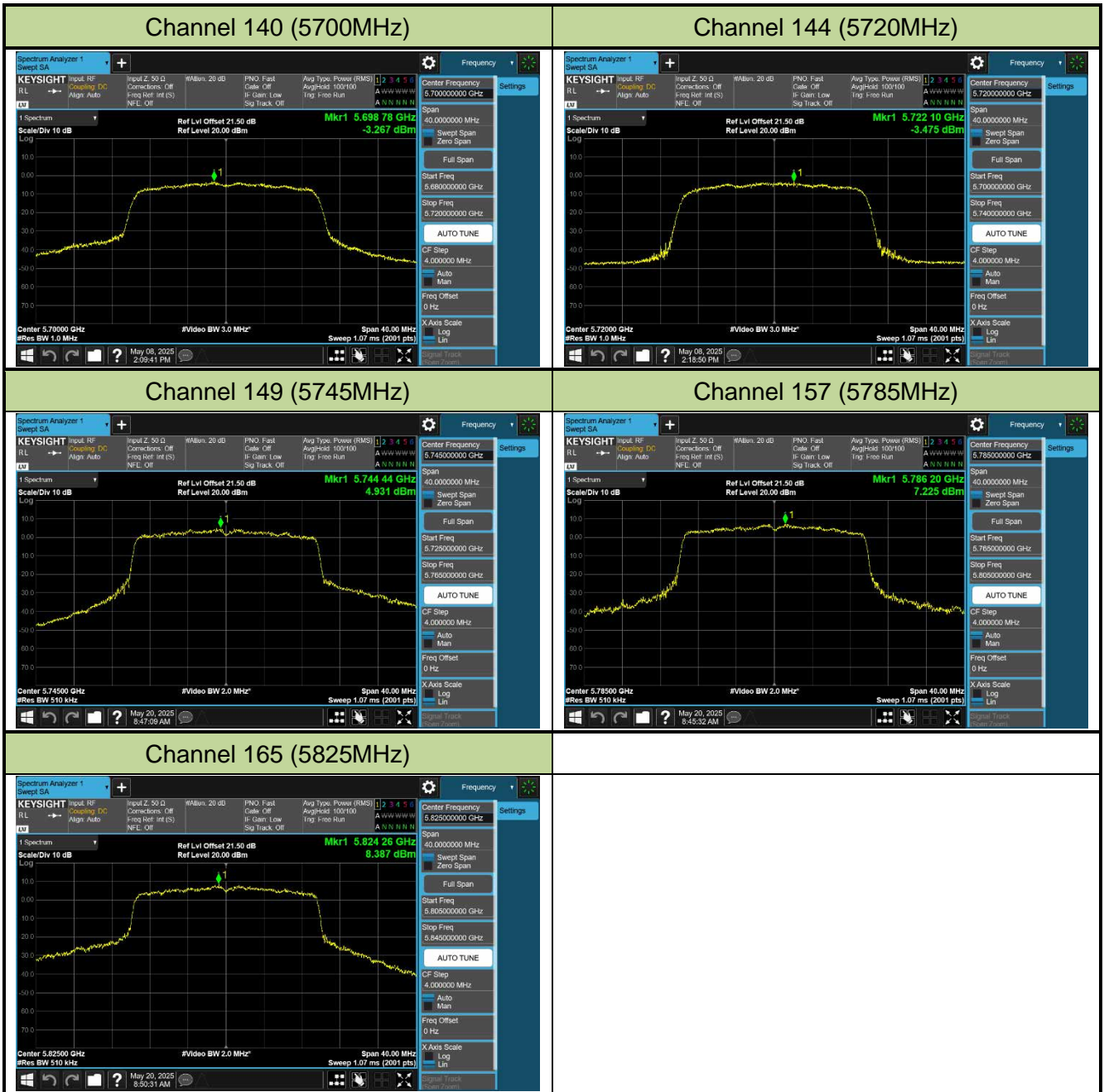


Channel 100 (5500MHz)



Channel 116 (5580MHz)





### 802.11ax-HE40 Power Spectral Density - Ant 0

#### Channel 38 (5190MHz)



#### Channel 46 (5230MHz)



#### Channel 54 (5270MHz)



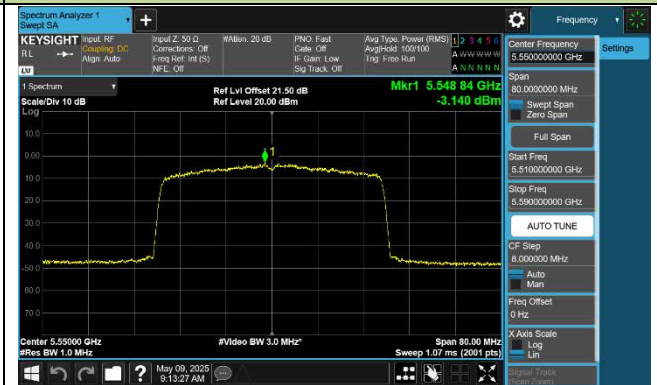
#### Channel 62 (5310MHz)



#### Channel 102 (5510MHz)



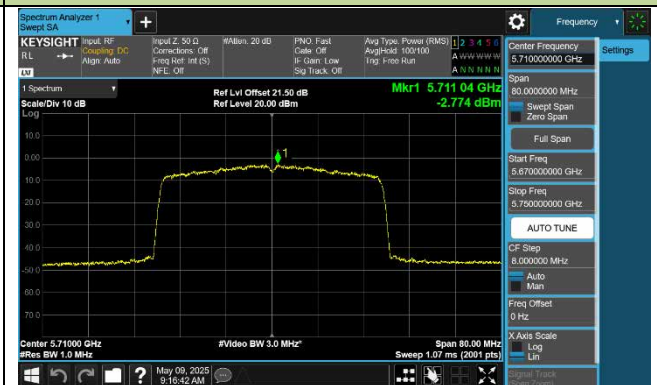
#### Channel 110 (5550MHz)

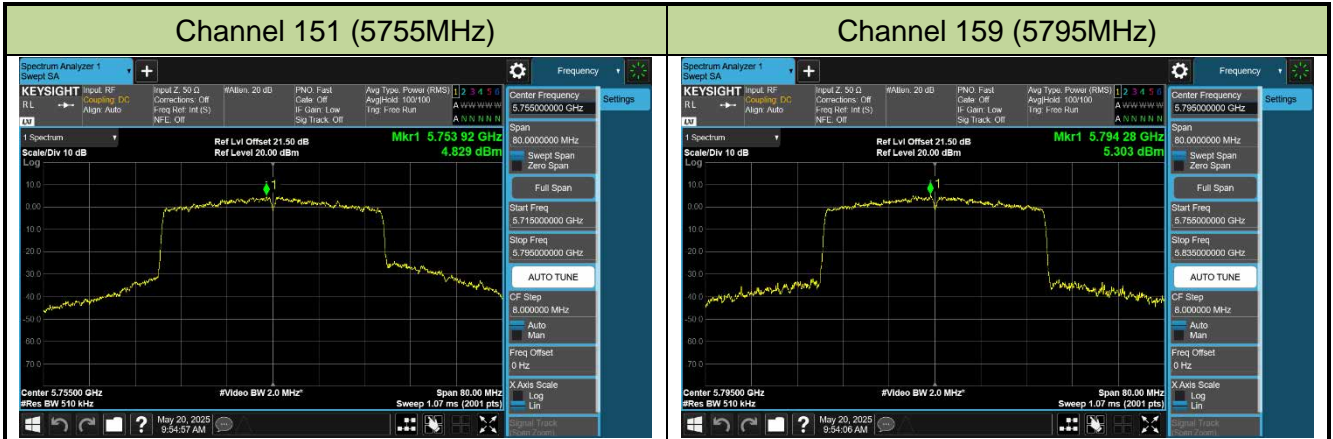


#### Channel 134 (5670MHz)

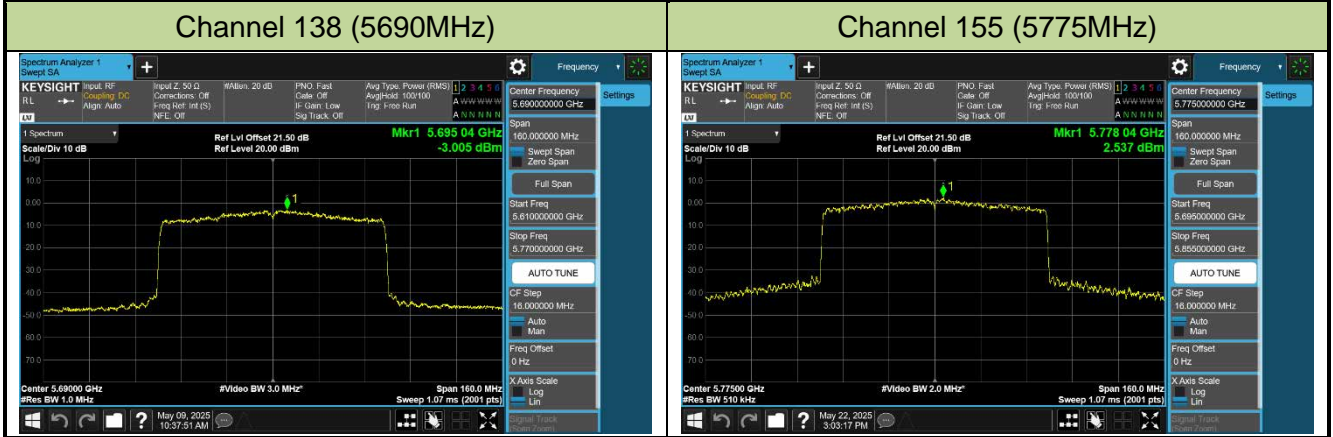
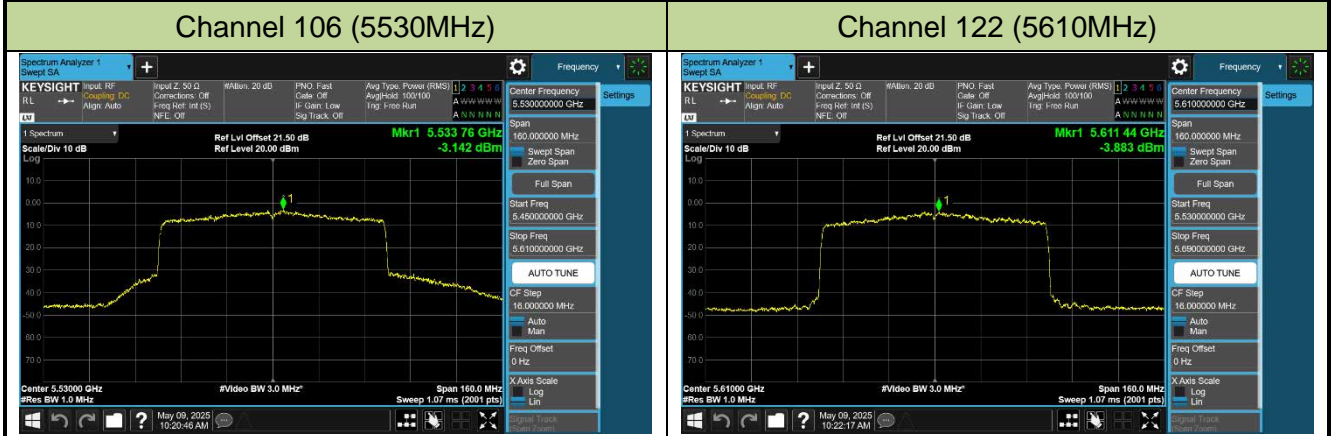


#### Channel 142 (5710MHz)





802.11ax-HE80 Power Spectral Density - Ant 0



802.11ax-HE160 Power Spectral Density - Ant 0

Channel 50 (5250MHz)



Channel 114 (5570MHz)



## 802.11a Power Spectral Density - Ant 1

Channel 36 (5180MHz)



Channel 40 (5200MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)

