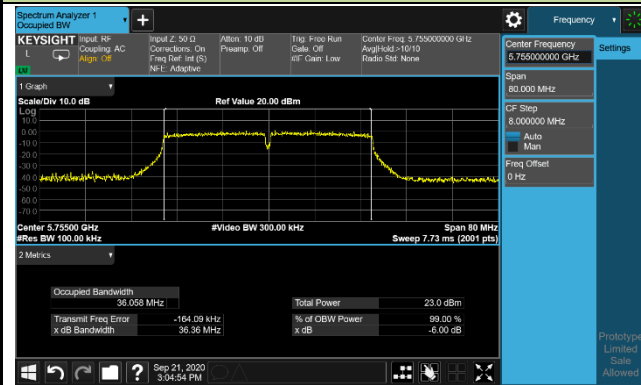
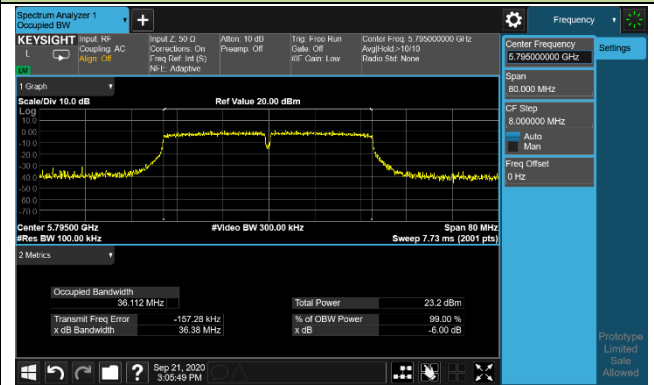


802.11ac-VHT40 6dB Bandwidth - Ant 0 / Ant 0 + 1

Channel 151 (5755MHz)

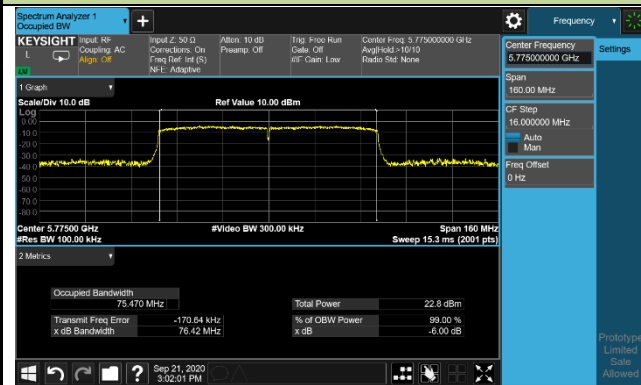


Channel 159 (5795MHz)



802.11ac-VHT80 6dB Bandwidth - Ant 0 / Ant 0 + 1

Channel 155 (5775MHz)



6.4. Output Power Measurement

6.4.1. Test Limit

For an indoor access point operating in 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.

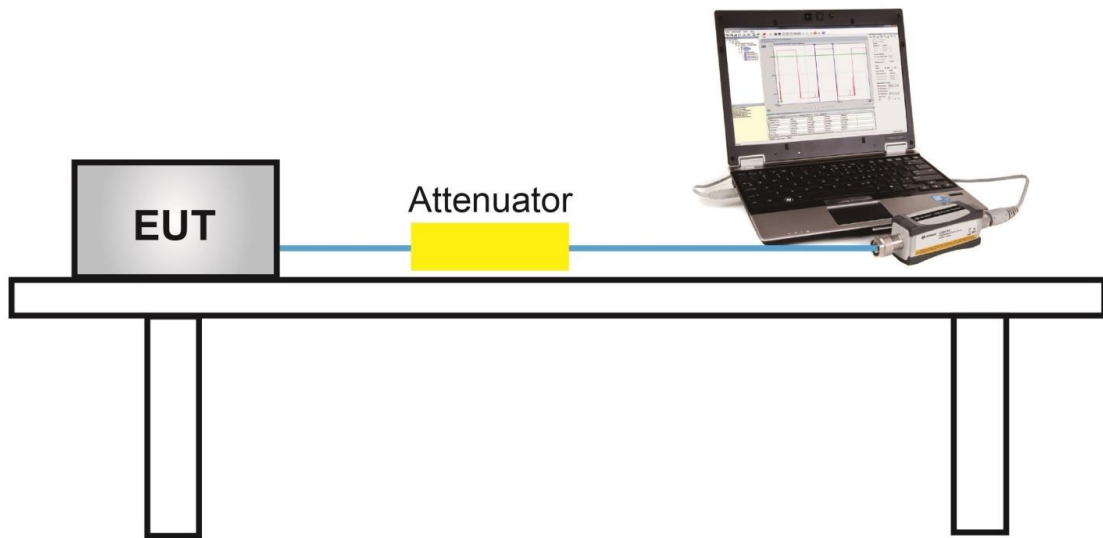
6.4.2. Test Procedure Used

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

6.4.3. Test Setting

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

6.4.4. Test Setup



6.4.5.Test Result

Pre-Test RF Output Power at various data rates for Ant 0 (SISO Mode). All modes of operation and data rates were investigated, so all RF test requirements shall be executed at low data rates.

Test Mode	Bandwidth	Channel No.	Frequency (MHz)	Data Rate/ MCS	Average Power (dBm)
802.11a	20	36	5180	6Mbps	11.93
				24Mbps	11.84
				54Mbps	11.74
802.11n	20	36	5180	MCS0	11.76
				MCS4	11.68
				MCS7	11.59
802.11n	40	38	5190	MCS0	11.77
				MCS4	11.70
				MCS7	11.61
802.11ac	20	36	5180	MCS0	11.72
				MCS4	11.65
				MCS8	11.57
802.11ac	40	38	5190	MCS0	11.84
				MCS4	11.74
				MCS9	11.59
802.11ac	80	42	5210	MCS0	11.80
				MCS4	11.70
				MCS9	11.58

Test Site	WZ-TR3	Test Engineer	Amy Zhang
Test Date	2020/12/31		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Limit (dBm)	Result
				Ant 0	Ant 1		
SISO mode							
11a	6Mbps	36	5180	11.93	11.73	≤ 30.00	Pass
11a	6Mbps	44	5220	11.82	11.82	≤ 30.00	Pass
11a	6Mbps	48	5240	11.78	11.85	≤ 30.00	Pass
11a	6Mbps	52	5260	12.06	11.80	≤ 23.66	Pass
11a	6Mbps	60	5300	11.94	11.69	≤ 23.66	Pass
11a	6Mbps	64	5320	11.82	11.75	≤ 23.66	Pass
11a	6Mbps	100	5500	11.99	11.80	≤ 23.66	Pass
11a	6Mbps	116	5580	11.84	11.85	≤ 23.66	Pass
11a	6Mbps	140	5700	11.75	11.81	≤ 23.66	Pass
11a	6Mbps	144	5720	11.56	11.72	≤ 22.54	Pass
11a	6Mbps	149	5745	11.98	11.89	≤ 30.00	Pass
11a	6Mbps	157	5785	11.74	11.98	≤ 30.00	Pass
11a	6Mbps	165	5825	11.79	11.95	≤ 30.00	Pass
11n-HT20	MCS0	36	5180	11.76	11.93	≤ 30.00	Pass
11n-HT20	MCS0	44	5220	11.98	11.88	≤ 30.00	Pass
11n-HT20	MCS0	48	5240	11.85	11.91	≤ 30.00	Pass
11n-HT20	MCS0	52	5260	12.06	11.74	≤ 23.89	Pass
11n-HT20	MCS0	60	5300	11.93	11.99	≤ 23.89	Pass
11n-HT20	MCS0	64	5320	11.88	11.97	≤ 23.89	Pass
11n-HT20	MCS0	100	5500	11.82	11.76	≤ 23.89	Pass
11n-HT20	MCS0	116	5580	11.95	11.65	≤ 23.89	Pass
11n-HT20	MCS0	140	5700	11.96	11.81	≤ 23.89	Pass
11n-HT20	MCS0	144	5720	11.87	11.70	≤ 22.68	Pass
11n-HT20	MCS0	149	5745	11.82	11.87	≤ 30.00	Pass
11n-HT20	MCS0	157	5785	11.74	11.74	≤ 30.00	Pass
11n-HT20	MCS0	165	5825	11.58	11.72	≤ 30.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Limit (dBm)	Result
				Ant 0	Ant 1		
SISO mode							
11n-HT40	MCS0	38	5190	11.77	11.85	≤ 30.00	Pass
11n-HT40	MCS0	46	5230	11.73	11.77	≤ 30.00	Pass
11n-HT40	MCS0	54	5270	11.78	11.75	≤ 23.98	Pass
11n-HT40	MCS0	62	5310	11.97	11.86	≤ 23.98	Pass
11n-HT40	MCS0	102	5510	11.75	11.87	≤ 23.98	Pass
11n-HT40	MCS0	110	5550	11.86	11.82	≤ 23.98	Pass
11n-HT40	MCS0	134	5670	11.80	11.85	≤ 23.98	Pass
11n-HT40	MCS0	142	5710	11.84	11.93	≤ 23.98	Pass
11n-HT40	MCS0	151	5755	11.86	11.78	≤ 30.00	Pass
11n-HT40	MCS0	159	5795	11.78	11.84	≤ 30.00	Pass
11ac-VHT20	MCS0	36	5180	11.72	11.74	≤ 30.00	Pass
11ac-VHT20	MCS0	44	5220	11.93	11.63	≤ 30.00	Pass
11ac-VHT20	MCS0	48	5240	12.01	11.95	≤ 30.00	Pass
11ac-VHT20	MCS0	52	5260	12.04	11.72	≤ 23.86	Pass
11ac-VHT20	MCS0	60	5300	11.89	11.91	≤ 23.86	Pass
11ac-VHT20	MCS0	64	5320	11.76	11.73	≤ 23.86	Pass
11ac-VHT20	MCS0	100	5500	11.73	11.78	≤ 23.86	Pass
11ac-VHT20	MCS0	116	5580	11.88	11.96	≤ 23.86	Pass
11ac-VHT20	MCS0	140	5700	11.65	11.81	≤ 23.86	Pass
11ac-VHT20	MCS0	144	5720	11.87	11.76	≤ 22.68	Pass
11ac-VHT20	MCS0	149	5745	11.93	11.87	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	11.88	11.70	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	11.91	11.71	≤ 30.00	Pass
11ac-VHT40	MCS0	38	5190	11.84	11.83	≤ 30.00	Pass
11ac-VHT40	MCS0	46	5230	11.72	11.91	≤ 30.00	Pass
11ac-VHT40	MCS0	54	5270	11.76	11.97	≤ 23.98	Pass
11ac-VHT40	MCS0	62	5310	11.64	11.86	≤ 23.98	Pass
11ac-VHT40	MCS0	102	5510	11.91	11.83	≤ 23.98	Pass
11ac-VHT40	MCS0	110	5550	12.02	11.78	≤ 23.98	Pass
11ac-VHT40	MCS0	134	5670	11.70	11.86	≤ 23.98	Pass
11ac-VHT40	MCS0	142	5710	11.89	11.87	≤ 23.98	Pass
11ac-VHT40	MCS0	151	5755	11.75	11.75	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	11.94	11.84	≤ 30.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Limit (dBm)	Result
				Ant 0	Ant 1		
SISO mode							
11ac-VHT80	MCS0	42	5210	11.80	11.65	≤ 30.00	Pass
11ac-VHT80	MCS0	58	5290	11.75	11.73	≤ 23.98	Pass
11ac-VHT80	MCS0	106	5530	11.94	11.74	≤ 23.98	Pass
11ac-VHT80	MCS0	122	5610	11.71	11.86	≤ 23.98	Pass
11ac-VHT80	MCS0	138	5690	11.68	11.61	≤ 23.98	Pass
11ac-VHT80	MCS0	155	5775	11.82	11.65	≤ 30.00	Pass

Note: Average Power Limit Calculation as below:

For 5150-5250MHz & 5725-5850MHz

802.11a/n/ac: Final Limit = 30dBm

For 5250-5350MHz & 5470-5725MHz

802.11a: $11 + 10 \log_{10} (18.47\text{MHz}) = 23.66\text{dBm} < 23.98\text{dBm}$

802.11n-HT20: $11 + 10 \log_{10} (19.44\text{MHz}) = 23.89\text{dBm} < 23.98\text{dBm}$

802.11ac-VHT20: $11 + 10 \log_{10} (19.30\text{MHz}) = 23.86\text{dBm} < 23.98\text{dBm}$

802.11n-HT40/ac-VHT40/ac-VHT80: $11 + 10 \log_{10} B > 23.98\text{dBm}$

For straddle channel, the conducted power limit is as below.

802.11a CH144: $11 + 10 \log_{10} [(18.48 / 2 + 5) \text{ MHz}] = 22.54\text{dBm} < 23.98\text{dBm}$

802.11n-HT20 CH144: $11 + 10 \log_{10} [(19.48 / 2 + 5) \text{ MHz}] = 22.68\text{dBm} < 23.98\text{dBm}$

802.11ac-VHT20 CH144: $11 + 10 \log_{10} [(19.44 / 2 + 5) \text{ MHz}] = 22.68\text{dBm} < 23.98\text{dBm}$

802.11ac-VHT40/ac-VHT80: $11 + 10 \log_{10} B > 23.98\text{dBm}$

Test Site	WZ-TR3	Test Engineer	Amy Zhang
Test Date	2020/12/31		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Average Power (dBm)	Limit (dBm)	Result
				Ant 0	Ant 1			
CDD Mode								
11a	6Mbps	36	5180	12.08	11.95	15.03	≤ 30.00	Pass
11a	6Mbps	44	5220	11.89	12.07	14.99	≤ 30.00	Pass
11a	6Mbps	48	5240	11.94	11.98	14.97	≤ 30.00	Pass
11a	6Mbps	52	5260	12.12	12.13	15.14	≤ 23.66	Pass
11a	6Mbps	60	5300	12.02	11.95	15.00	≤ 23.66	Pass
11a	6Mbps	64	5320	11.95	11.98	14.98	≤ 23.66	Pass
11a	6Mbps	100	5500	12.03	12.06	15.06	≤ 23.66	Pass
11a	6Mbps	116	5580	12.06	12.14	15.11	≤ 23.66	Pass
11a	6Mbps	140	5700	11.93	12.01	14.98	≤ 23.66	Pass
11a	6Mbps	144	5720	11.98	12.05	15.03	≤ 22.54	Pass
11a	6Mbps	149	5745	12.01	12.02	15.03	≤ 30.00	Pass
11a	6Mbps	157	5785	11.94	12.13	15.05	≤ 30.00	Pass
11a	6Mbps	165	5825	12.03	11.96	15.01	≤ 30.00	Pass
11n-HT20	MCS0	36	5180	11.91	12.07	15.00	≤ 30.00	Pass
11n-HT20	MCS0	44	5220	12.05	12.13	15.10	≤ 30.00	Pass
11n-HT20	MCS0	48	5240	11.98	12.24	15.12	≤ 30.00	Pass
11n-HT20	MCS0	52	5260	12.26	12.19	15.24	≤ 23.89	Pass
11n-HT20	MCS0	60	5300	12.10	12.04	15.08	≤ 23.89	Pass
11n-HT20	MCS0	64	5320	12.03	11.96	15.01	≤ 23.89	Pass
11n-HT20	MCS0	100	5500	12.06	11.93	15.01	≤ 23.89	Pass
11n-HT20	MCS0	116	5580	12.05	11.95	15.01	≤ 23.89	Pass
11n-HT20	MCS0	140	5700	12.07	12.13	15.11	≤ 23.89	Pass
11n-HT20	MCS0	144	5720	11.89	12.01	14.96	≤ 22.68	Pass
11n-HT20	MCS0	149	5745	12.12	11.94	15.04	≤ 30.00	Pass
11n-HT20	MCS0	157	5785	11.91	11.91	14.92	≤ 30.00	Pass
11n-HT20	MCS0	165	5825	11.76	12.12	14.95	≤ 30.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Average Power (dBm)	Limit (dBm)	Result
				Ant 0	Ant 1			
CDD Mode								
11n-HT40	MCS0	38	5190	11.85	11.89	14.88	≤ 30.00	Pass
11n-HT40	MCS0	46	5230	11.88	11.97	14.94	≤ 30.00	Pass
11n-HT40	MCS0	54	5270	11.91	11.95	14.94	≤ 23.98	Pass
11n-HT40	MCS0	62	5310	12.13	11.92	15.04	≤ 23.98	Pass
11n-HT40	MCS0	102	5510	12.01	12.03	15.03	≤ 23.98	Pass
11n-HT40	MCS0	110	5550	11.97	12.06	15.03	≤ 23.98	Pass
11n-HT40	MCS0	134	5670	11.95	12.13	15.05	≤ 23.98	Pass
11n-HT40	MCS0	142	5710	11.98	12.01	15.01	≤ 23.98	Pass
11n-HT40	MCS0	151	5755	11.92	11.97	14.96	≤ 30.00	Pass
11n-HT40	MCS0	159	5795	12.05	12.04	15.06	≤ 30.00	Pass
11ac-VHT20	MCS0	36	5180	11.93	12.12	15.04	≤ 30.00	Pass
11ac-VHT20	MCS0	44	5220	12.04	11.90	14.98	≤ 30.00	Pass
11ac-VHT20	MCS0	48	5240	12.11	12.02	15.08	≤ 30.00	Pass
11ac-VHT20	MCS0	52	5260	12.07	11.93	15.01	≤ 23.86	Pass
11ac-VHT20	MCS0	60	5300	11.99	12.02	15.02	≤ 23.86	Pass
11ac-VHT20	MCS0	64	5320	11.89	11.93	14.92	≤ 23.86	Pass
11ac-VHT20	MCS0	100	5500	11.95	12.03	15.00	≤ 23.86	Pass
11ac-VHT20	MCS0	116	5580	11.98	12.08	15.04	≤ 23.86	Pass
11ac-VHT20	MCS0	140	5700	11.93	11.85	14.90	≤ 23.86	Pass
11ac-VHT20	MCS0	144	5720	11.95	11.94	14.96	≤ 22.68	Pass
11ac-VHT20	MCS0	149	5745	12.10	11.91	15.02	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	12.06	12.07	15.08	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	11.97	11.93	14.96	≤ 30.00	Pass
11ac-VHT40	MCS0	38	5190	12.02	11.91	14.98	≤ 30.00	Pass
11ac-VHT40	MCS0	46	5230	11.95	11.94	14.96	≤ 30.00	Pass
11ac-VHT40	MCS0	54	5270	12.02	12.07	15.06	≤ 23.98	Pass
11ac-VHT40	MCS0	62	5310	11.91	12.01	14.97	≤ 23.98	Pass
11ac-VHT40	MCS0	102	5510	11.94	11.98	14.97	≤ 23.98	Pass
11ac-VHT40	MCS0	110	5550	12.07	12.12	15.11	≤ 23.98	Pass
11ac-VHT40	MCS0	134	5670	12.02	12.08	15.06	≤ 23.98	Pass
11ac-VHT40	MCS0	142	5710	12.09	11.95	15.03	≤ 23.98	Pass
11ac-VHT40	MCS0	151	5755	12.03	11.99	15.02	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	11.97	12.02	15.01	≤ 30.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Average Power (dBm)	Limit (dBm)	Result
				Ant 0	Ant 1			
CDD Mode								
11ac-VHT80	MCS0	42	5210	11.96	11.97	14.98	≤ 30.00	Pass
11ac-VHT80	MCS0	58	5290	12.00	11.94	14.98	≤ 23.98	Pass
11ac-VHT80	MCS0	106	5530	11.96	12.05	15.02	≤ 23.98	Pass
11ac-VHT80	MCS0	122	5610	12.01	12.01	15.02	≤ 23.98	Pass
11ac-VHT80	MCS0	138	5690	12.03	11.92	14.99	≤ 23.98	Pass
11ac-VHT80	MCS0	155	5775	11.97	11.91	14.95	≤ 30.00	Pass

Note 1: Total Average Power (dBm) = $10 \log_{10} \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$.

Note 2: Average Power Limit Calculation as below:

For 5250-5350MHz & 5470-5725MHz

802.11a: $11 + 10 \log_{10} (18.47\text{MHz}) = 23.66\text{dBm} < 23.98\text{dBm}$

802.11n-HT20: $11 + 10 \log_{10} (19.44\text{MHz}) = 23.89\text{dBm} < 23.98\text{dBm}$

802.11ac-VHT20: $11 + 10 \log_{10} (19.30\text{MHz}) = 23.86\text{dBm} < 23.98\text{dBm}$

802.11n-HT40/ac-VHT40/ac-VHT80: $11 + 10 \log_{10} B > 23.98\text{dBm}$

For straddle channel, the conducted power limit is as below.

802.11a CH144: $11 + 10 \log_{10} [(18.48 / 2 + 5) \text{ MHz}] = 22.54\text{dBm} < 23.98\text{dBm}$

802.11n-HT20 CH144: $11 + 10 \log_{10} [(19.48 / 2 + 5) \text{ MHz}] = 22.68\text{dBm} < 23.98\text{dBm}$

802.11ac-VHT20 CH144: $11 + 10 \log_{10} [(19.44 / 2 + 5) \text{ MHz}] = 22.68\text{dBm} < 23.98\text{dBm}$

802.11 n-HT40/ac-VHT40/ac-VHT80: $11 + 10 \log_{10} B > 23.98\text{dBm}$

6.5. Transmit Power Control

6.5.1. 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.

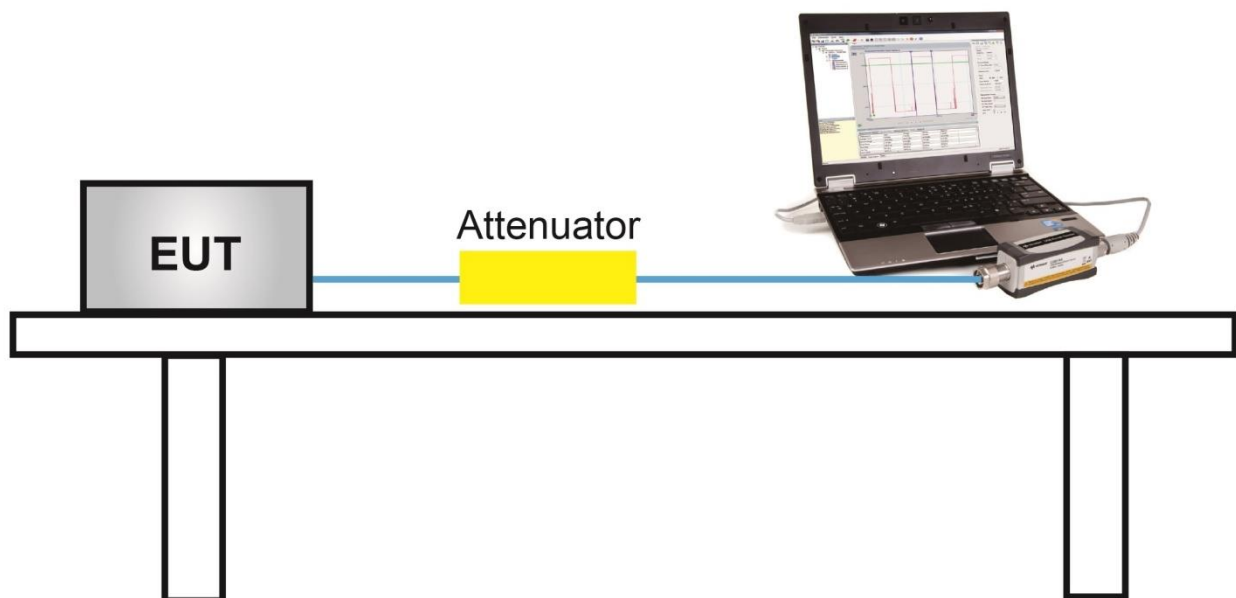
6.5.2. Test Procedure Used

ANSI C63.10-2013- Section 12.3.3.2 Method PM-G

6.5.3. 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.

6.5.4. Test Setup



6.5.5. Test Result

A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

6.6. Power Spectral Density Measurement

6.6.1. Test Limit

For an indoor access point operating in 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.

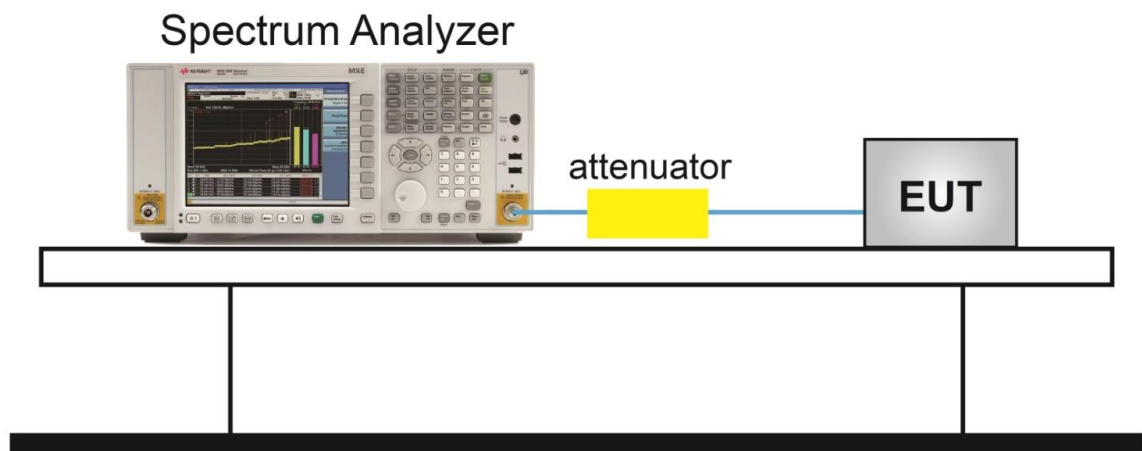
6.6.2. Test Procedure Used

KDB 789033 D02v02r01 - Section F

6.6.3. 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 = 510kHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = Power averaging (Average)
7. Trace average at least 100 traces in power averaging (rms) mode
8. Sweep time = Auto
9. Trigger = Free run
10. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
11. 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.

6.6.4. Test Setup



6.6.5. Test Result

Test Site	WZ-TR3	Test Engineer	Amy Zhang
Test Date	2021/01/04		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	PSD (dBm/MHz)		Duty Cycle (%)	Final PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
				Ant 0	Ant 1				
11a	6Mbps	36	5180	0.48	-0.84	100	2.88	≤ 16.65	Pass
11a	6Mbps	44	5220	0.56	-0.78	100	2.95	≤ 16.65	Pass
11a	6Mbps	48	5240	0.62	-0.26	100	3.21	≤ 16.65	Pass
11a	6Mbps	52	5260	1.02	-0.30	100	3.42	≤ 10.65	Pass
11a	6Mbps	60	5300	0.88	-0.29	100	3.34	≤ 10.65	Pass
11a	6Mbps	64	5320	0.68	-0.10	100	3.32	≤ 10.65	Pass
11a	6Mbps	100	5500	-0.17	-1.13	100	2.39	≤ 10.65	Pass
11a	6Mbps	116	5580	0.04	-0.63	100	2.73	≤ 10.65	Pass
11a	6Mbps	140	5700	0.01	-0.25	100	2.89	≤ 10.65	Pass
11a	6Mbps	144	5720	0.75	-0.17	100	3.32	≤ 10.65	Pass
11n-HT20	MCS0	36	5180	0.54	0.00	100	3.29	≤ 16.65	Pass
11n-HT20	MCS0	44	5220	0.29	-0.63	100	2.87	≤ 16.65	Pass
11n-HT20	MCS0	48	5240	0.38	-0.45	100	3.00	≤ 16.65	Pass
11n-HT20	MCS0	52	5260	0.21	-0.84	100	2.73	≤ 10.65	Pass
11n-HT20	MCS0	60	5300	0.12	-0.63	100	2.77	≤ 10.65	Pass
11n-HT20	MCS0	64	5320	0.76	-1.20	100	2.90	≤ 10.65	Pass
11n-HT20	MCS0	100	5500	-0.08	-1.26	100	2.38	≤ 10.65	Pass
11n-HT20	MCS0	116	5580	0.44	-1.53	100	2.58	≤ 10.65	Pass
11n-HT20	MCS0	140	5700	-0.24	-0.60	100	2.60	≤ 10.65	Pass
11n-HT20	MCS0	144	5720	0.08	-0.61	100	2.75	≤ 10.65	Pass
11n-HT40	MCS0	38	5190	-2.11	-2.67	100	3.50	≤ 16.65	Pass
11n-HT40	MCS0	46	5230	-2.79	-2.94	100	3.11	≤ 16.65	Pass
11n-HT40	MCS0	54	5270	-2.51	-3.84	100	3.01	≤ 10.65	Pass
11n-HT40	MCS0	62	5310	-2.18	-3.72	100	2.63	≤ 10.65	Pass
11n-HT40	MCS0	102	5510	-3.92	-4.27	100	2.75	≤ 10.65	Pass
11n-HT40	MCS0	110	5550	-4.25	-3.74	100	2.73	≤ 10.65	Pass
11n-HT40	MCS0	134	5670	-3.66	-4.06	100	1.94	≤ 10.65	Pass
11n-HT40	MCS0	142	5710	-3.48	-3.34	100	2.01	≤ 10.65	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	PSD (dBm/MHz)		Duty Cycle (%)	Final PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
				Ant 0	Ant 1				
11ac-VHT20	MCS0	36	5180	0.41	0.58	100	-0.08	≤ 16.65	Pass
11ac-VHT20	MCS0	44	5220	0.49	-0.32	100	-0.07	≤ 16.65	Pass
11ac-VHT20	MCS0	48	5240	0.41	-0.45	100	-0.40	≤ 16.65	Pass
11ac-VHT20	MCS0	52	5260	0.27	-1.14	100	0.63	≤ 10.65	Pass
11ac-VHT20	MCS0	60	5300	0.47	-1.15	100	0.15	≤ 10.65	Pass
11ac-VHT20	MCS0	64	5320	0.40	-1.10	100	-0.12	≤ 10.65	Pass
11ac-VHT20	MCS0	100	5500	-0.35	-1.92	100	0.13	≤ 10.65	Pass
11ac-VHT20	MCS0	116	5580	-0.43	-1.66	100	-1.08	≤ 10.65	Pass
11ac-VHT20	MCS0	140	5700	-0.21	-1.19	100	-0.98	≤ 10.65	Pass
11ac-VHT20	MCS0	144	5720	-0.09	-1.02	100	-0.84	≤ 10.65	Pass
11ac-VHT40	MCS0	38	5190	-2.33	-1.91	100	0.89	≤ 16.65	Pass
11ac-VHT40	MCS0	46	5230	-2.61	-2.77	100	0.32	≤ 16.65	Pass
11ac-VHT40	MCS0	54	5270	-2.99	-3.29	100	-0.13	≤ 10.65	Pass
11ac-VHT40	MCS0	62	5310	-2.55	-3.30	100	0.10	≤ 10.65	Pass
11ac-VHT40	MCS0	102	5510	-3.54	-4.31	100	-0.90	≤ 10.65	Pass
11ac-VHT40	MCS0	110	5550	-3.97	-4.33	100	-1.14	≤ 10.65	Pass
11ac-VHT40	MCS0	134	5670	-3.20	-3.71	100	-0.44	≤ 10.65	Pass
11ac-VHT40	MCS0	142	5710	-3.36	-3.87	100	-0.60	≤ 10.65	Pass
11ac-VHT80	MCS0	42	5210	-4.34	-5.81	100	-2.00	≤ 16.65	Pass
11ac-VHT80	MCS0	58	5290	-4.71	-6.35	100	-2.45	≤ 10.65	Pass
11ac-VHT80	MCS0	106	5530	-6.13	-5.96	100	-3.03	≤ 10.65	Pass
11ac-VHT80	MCS0	122	5610	-6.59	-5.58	100	-3.04	≤ 10.65	Pass
11ac-VHT80	MCS0	138	5690	-5.34	-6.87	100	-3.03	≤ 10.65	Pass

Note 1: When EUT duty cycle ≥ 98%, Final PSD (dBm/MHz) = $10 \log_{10} \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$.

Note 2: PSD Limit Calculation as below:

For 5150-5250MHz: PSD Limit (dBm/MHz) = 17 - (6.35 - 6) = 16.65 (dBm/MHz);

For 5250-5350MHz & 5470-5725MHz: PSD Limit (dBm/MHz) = 11 - (6.35 - 6) = 10.65 (dBm/MHz);

Test Site	TR3	Test Engineer	Amy Zhang
Test Date	2021/01/04		

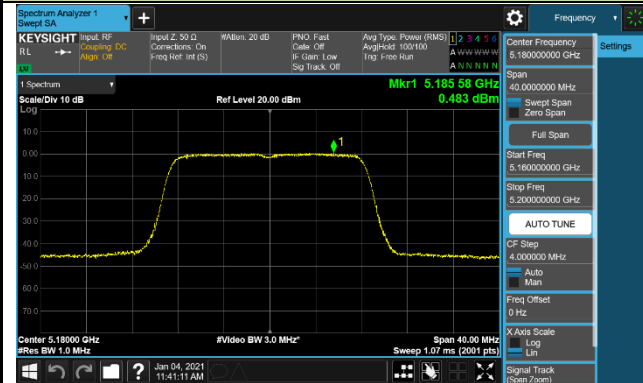
Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	PSD (dBm/510kHz)		Duty Cycle (%)	Final PSD (dBm/ 510kHz)	Limit (dBm/ 500kHz)	Result
				Ant 0	Ant 1				
11a	6Mbps	149	5745	-1.93	-3.13	100	0.52	≤ 29.65	Pass
11a	6Mbps	157	5785	-1.56	-3.37	100	0.64	≤ 29.65	Pass
11a	6Mbps	165	5825	-1.34	-3.29	100	0.81	≤ 29.65	Pass
11n-HT20	MCS0	149	5745	-2.33	-3.60	100	0.09	≤ 29.65	Pass
11n-HT20	MCS0	157	5785	-2.74	-3.30	100	0.00	≤ 29.65	Pass
11n-HT20	MCS0	165	5825	-2.68	-3.73	100	-0.17	≤ 29.65	Pass
11n-HT40	MCS0	151	5755	-6.07	-6.35	100	2.34	≤ 29.65	Pass
11n-HT40	MCS0	159	5795	-6.32	-6.79	100	2.48	≤ 29.65	Pass
11ac-VHT20	MCS0	149	5745	-2.72	-3.49	100	-0.40	≤ 29.65	Pass
11ac-VHT20	MCS0	157	5785	-2.91	-3.26	100	-3.20	≤ 29.65	Pass
11ac-VHT20	MCS0	165	5825	-2.88	-4.02	100	-3.54	≤ 29.65	Pass
11ac-VHT40	MCS0	151	5755	-5.98	-6.89	100	-3.40	≤ 29.65	Pass
11ac-VHT40	MCS0	159	5795	-6.06	-7.16	100	-3.57	≤ 29.65	Pass
11ac-VHT80	MCS0	155	5775	-7.66	-10.02	100	-5.67	≤ 29.65	Pass

Note 1: When EUT duty cycle ≥ 98%, Final PSD (dBm/510kHz) = $10 \log_{10} \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$.

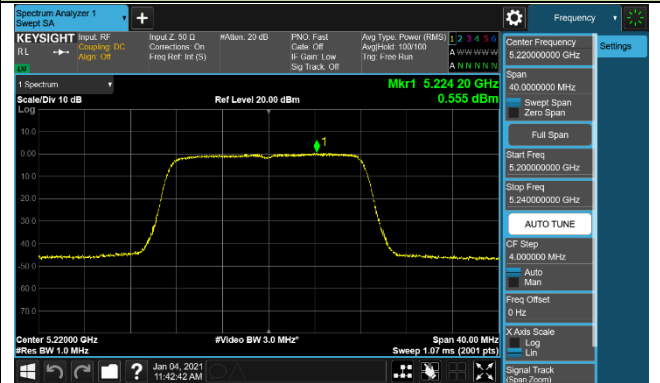
Note 2: PSD Limit (dBm/500kHz) = 30 - (6.35 - 6) = 29.65 (dBm/500kHz)

802.11a Power Spectral Density - Ant 0 / Ant 0 + 1

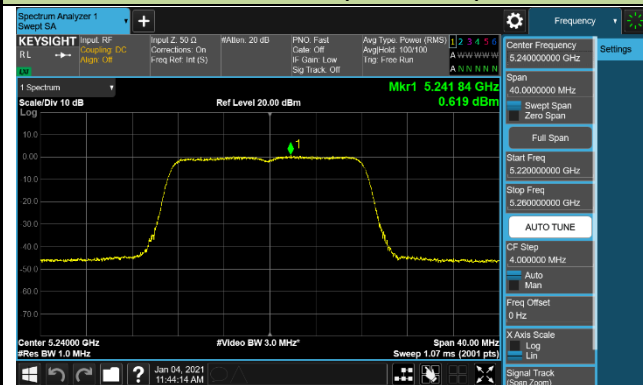
Channel 36 (5180MHz)



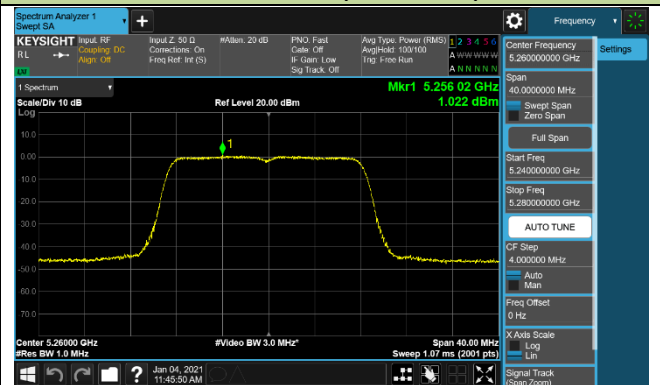
Channel 44 (5220MHz)



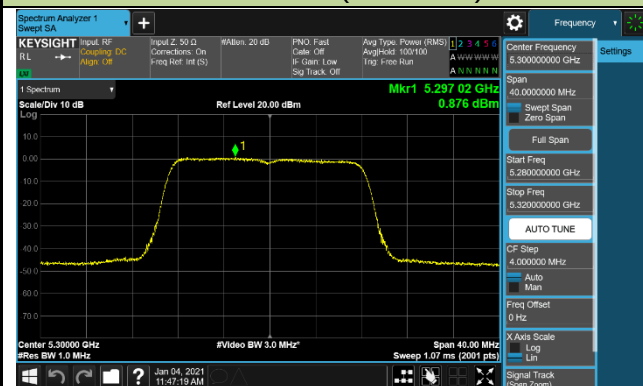
Channel 48 (5240MHz)



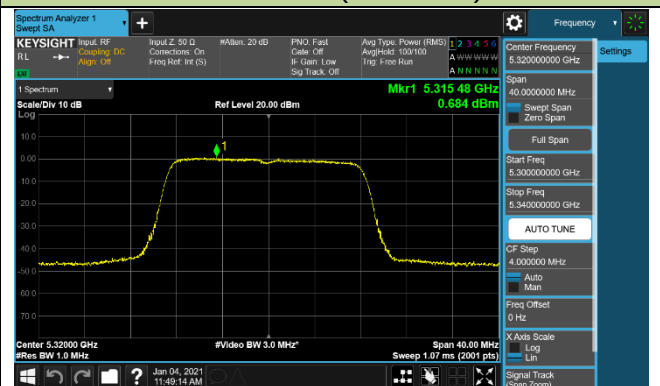
Channel 52 (5260MHz)



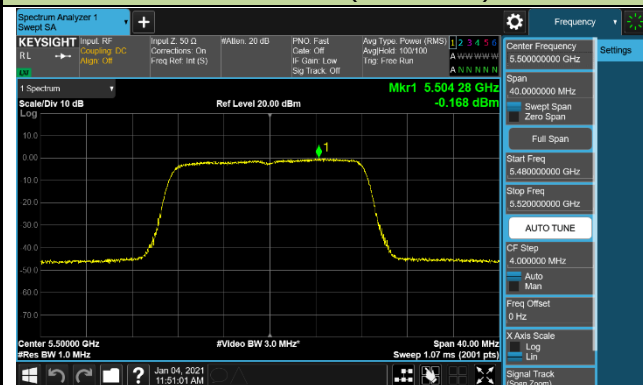
Channel 60 (5300MHz)



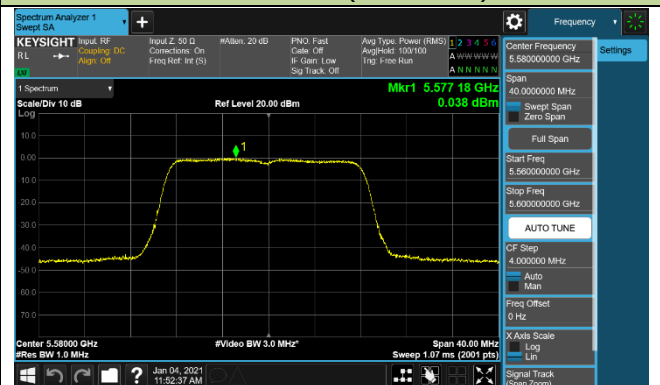
Channel 64 (5320MHz)



Channel 100 (5500MHz)

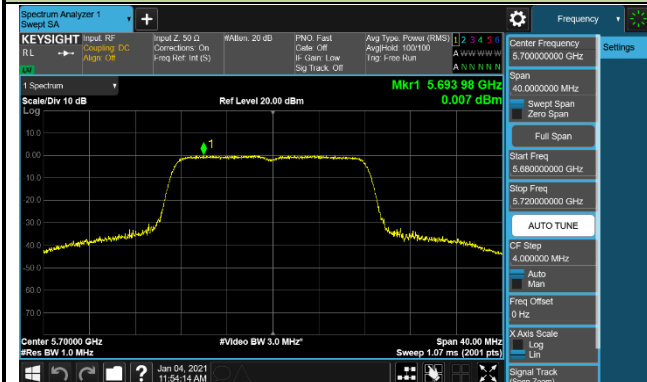


Channel 116 (5580MHz)

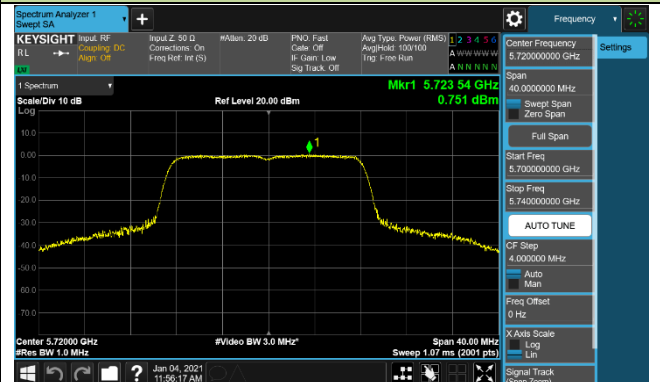


802.11a Power Spectral Density - Ant 0 / Ant 0 + 1

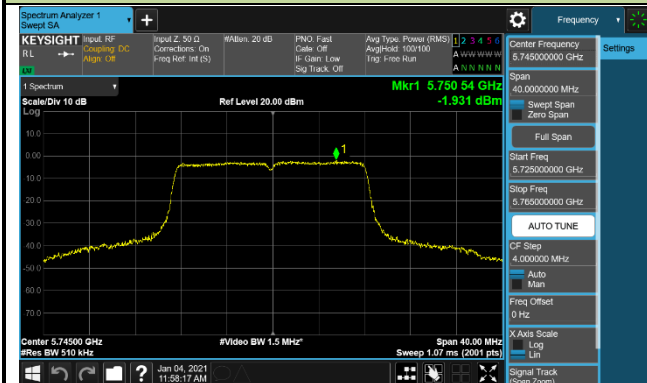
Channel 140 (5700MHz)



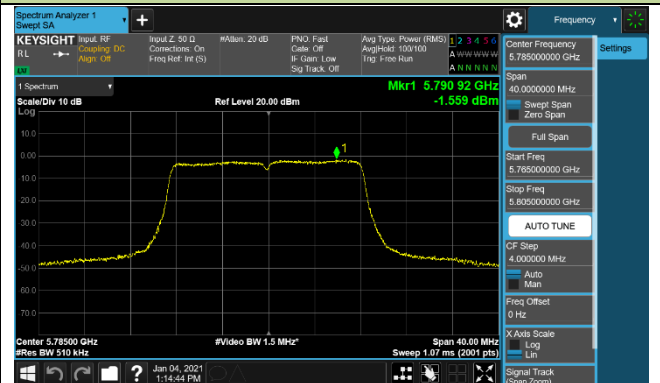
Channel 144 (5720MHz)



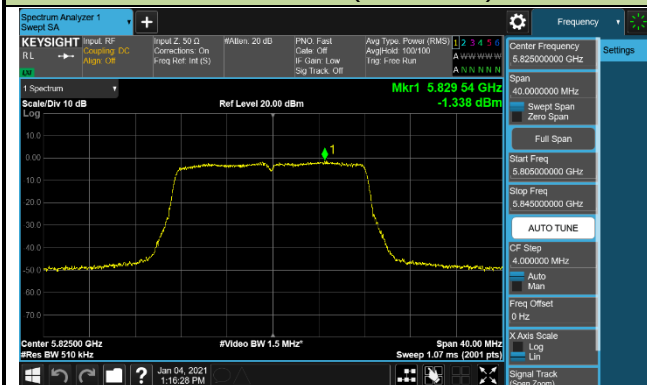
Channel 149 (5745MHz)



Channel 157 (5785MHz)

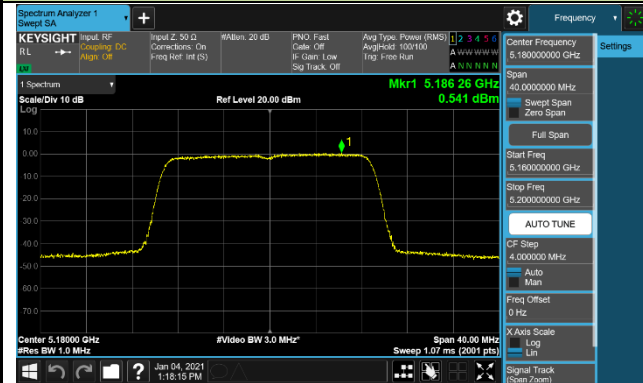


Channel 165 (5825MHz)

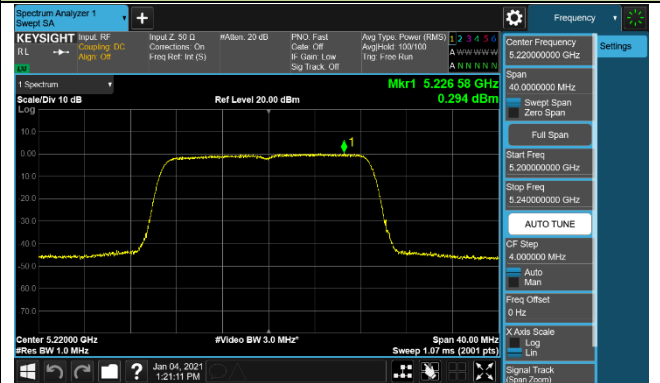


802.11n-HT20 Power Spectral Density - Ant 0 / Ant 0 + 1

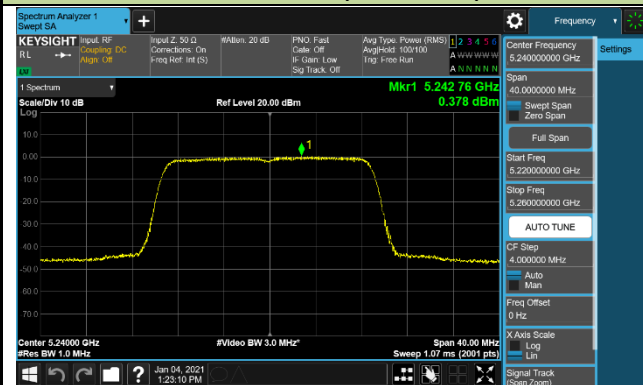
Channel 36 (5180MHz)



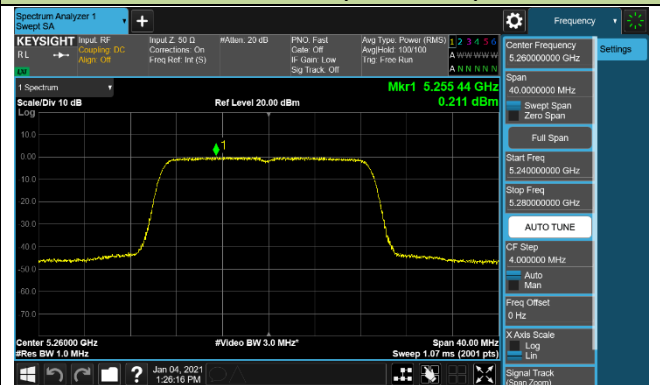
Channel 44 (5220MHz)



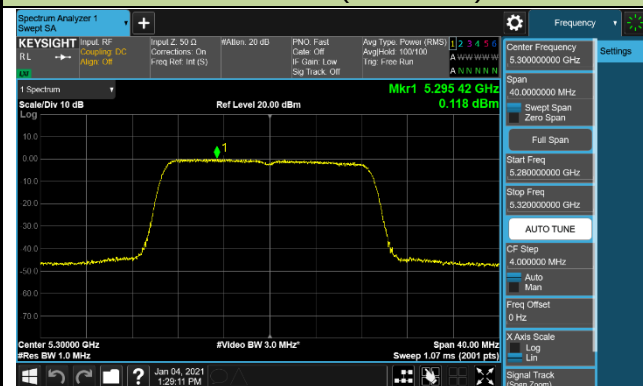
Channel 48 (5240MHz)



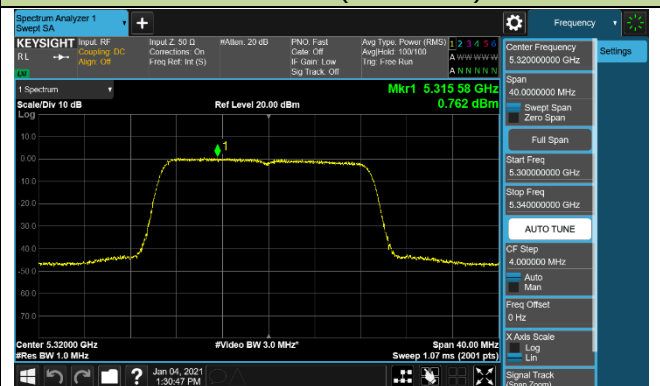
Channel 52 (5260MHz)



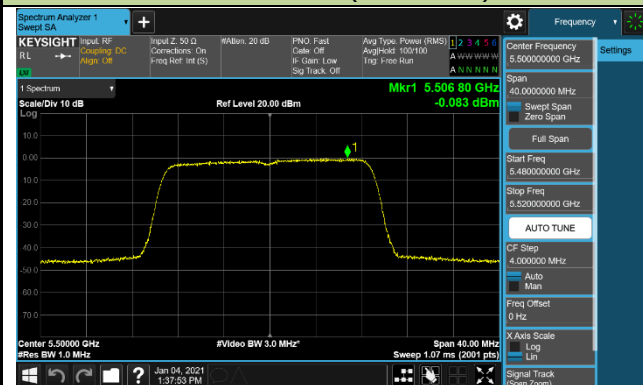
Channel 60 (5300MHz)



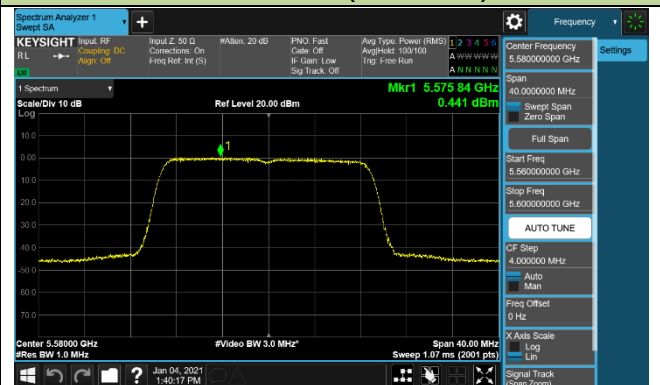
Channel 64 (5320MHz)



Channel 100 (5500MHz)

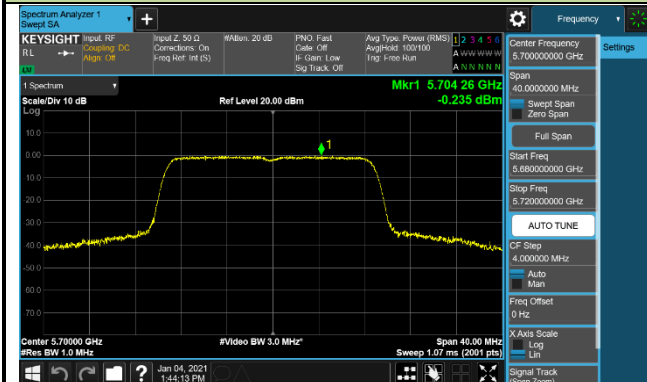


Channel 116 (5580MHz)

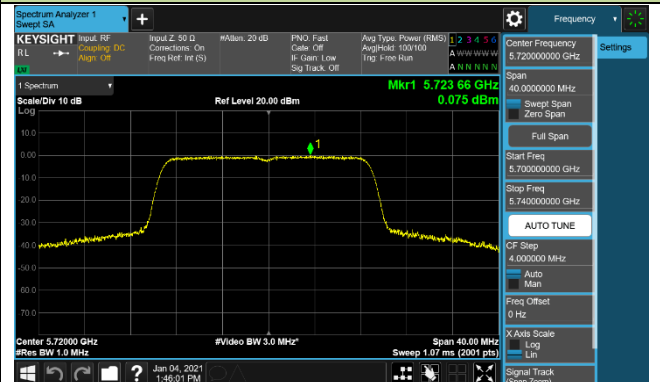


802.11n-HT20 Power Spectral Density - Ant 0 / Ant 0 + 1

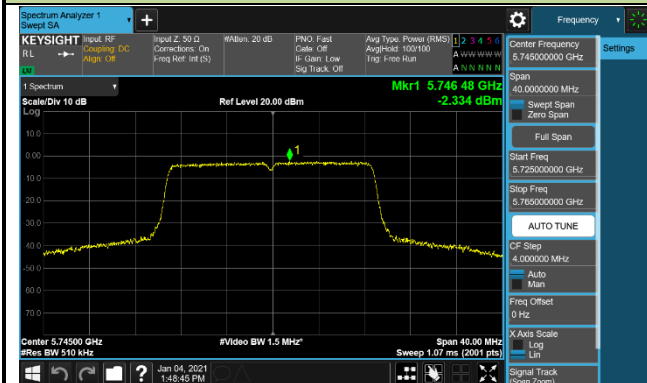
Channel 140 (5700MHz)



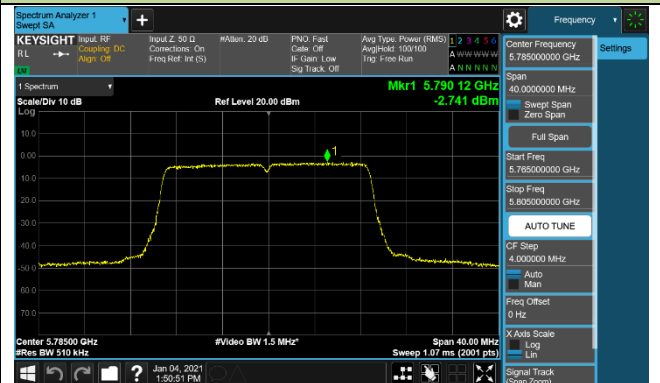
Channel 144 (5720MHz)



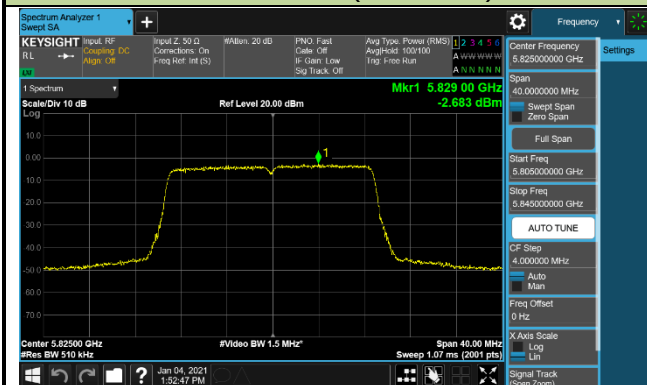
Channel 149 (5745MHz)



Channel 157 (5785MHz)

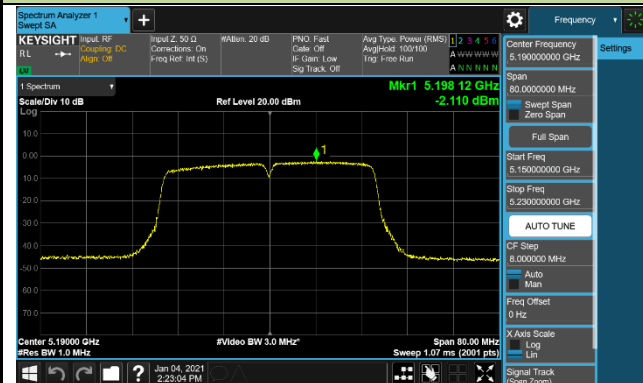


Channel 165 (5825MHz)

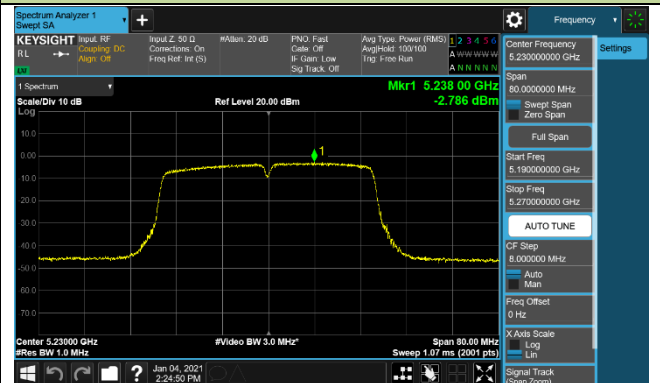


802.11n-HT40 Power Spectral Density - Ant 0 / Ant 0 + 1

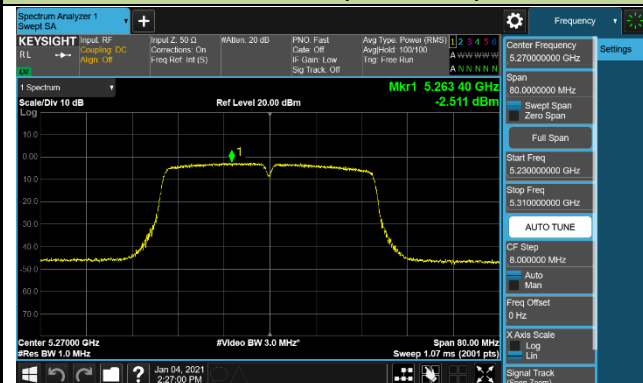
Channel 38 (5190MHz)



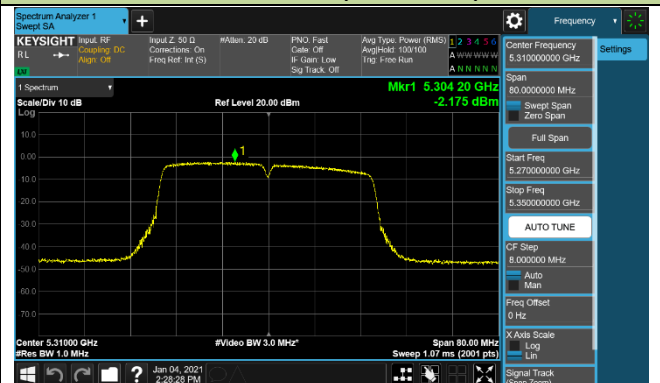
Channel 46 (5230MHz)



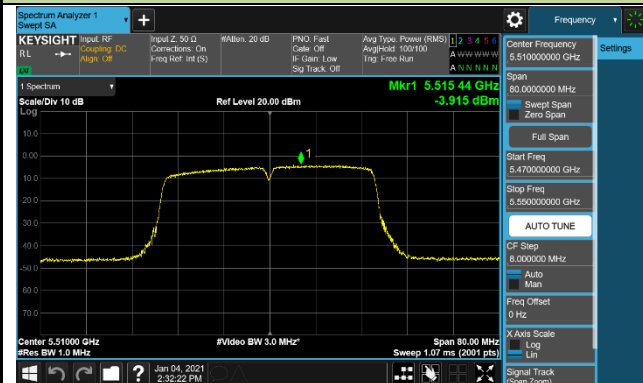
Channel 54 (5270MHz)



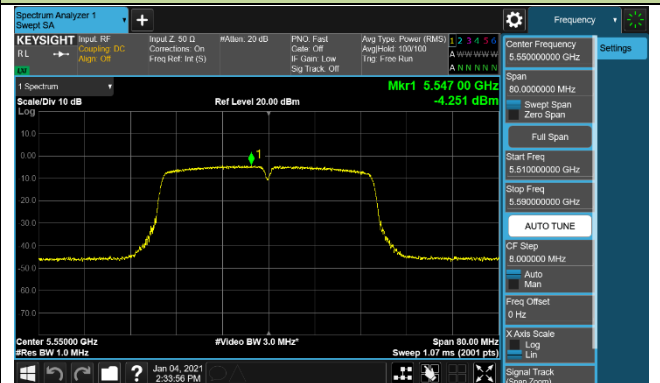
Channel 62 (5310MHz)



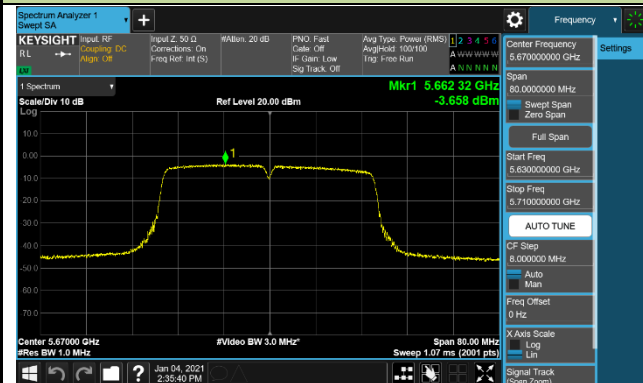
Channel 102 (5510MHz)



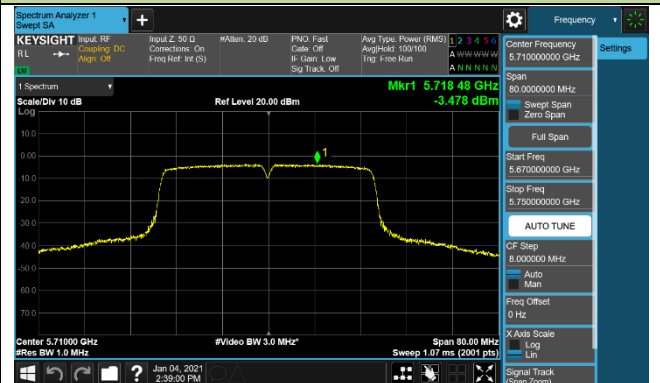
Channel 110 (5550MHz)



Channel 134 (5670MHz)

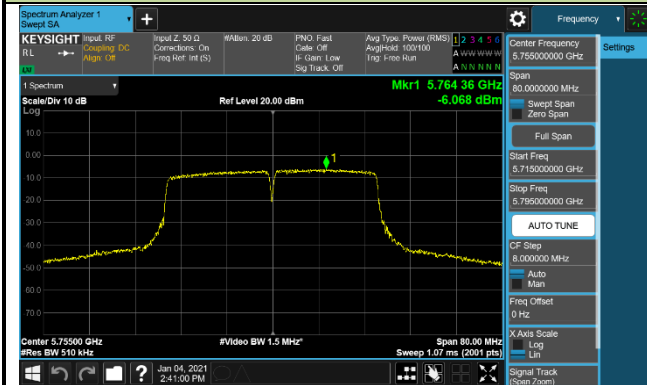


Channel 142 (5710MHz)

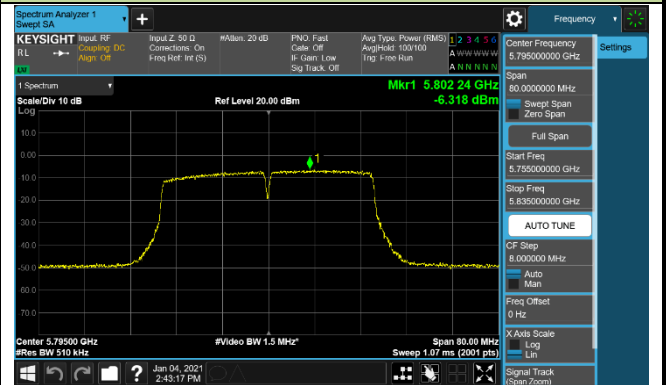


802.11n-HT40 Power Spectral Density - Ant 0 / Ant 0 + 1

Channel 151 (5755MHz)

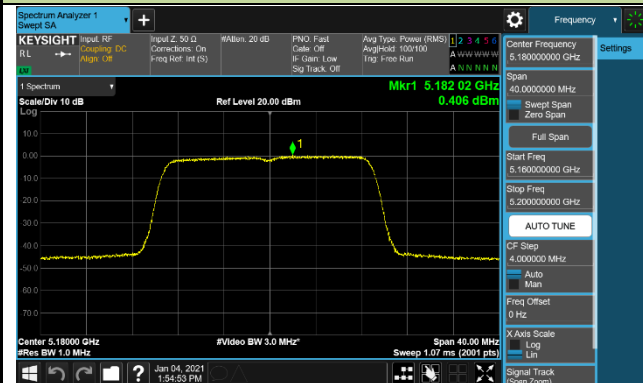


Channel 159 (5795MHz)

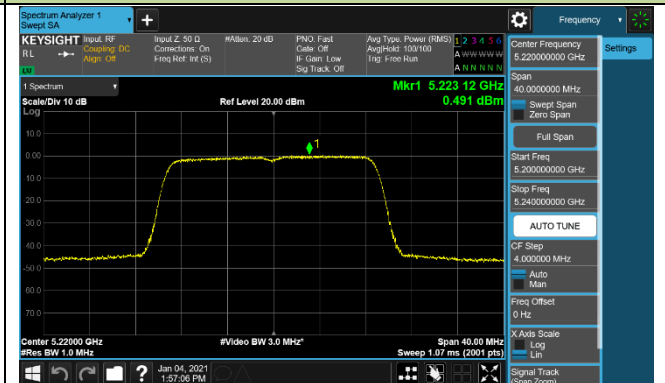


802.11ac-VHT20 Power Spectral Density - Ant 0 / Ant 0 + 1

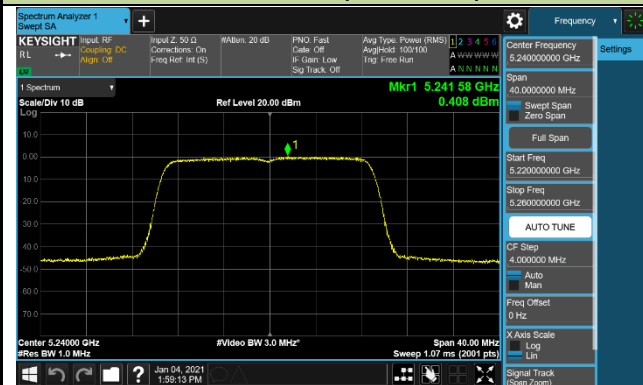
Channel 36 (5180MHz)



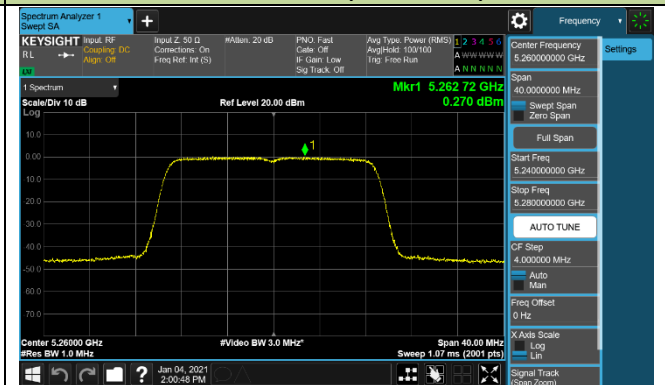
Channel 44 (5220MHz)



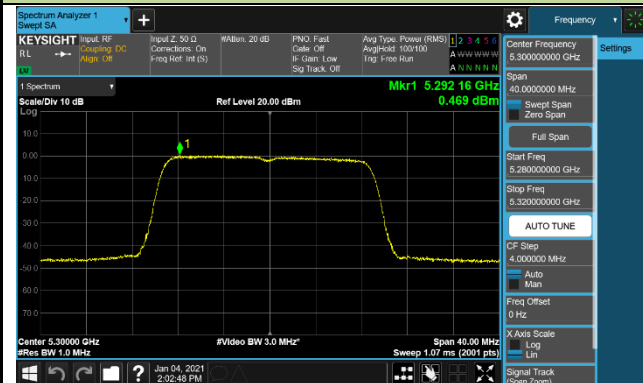
Channel 48 (5240MHz)



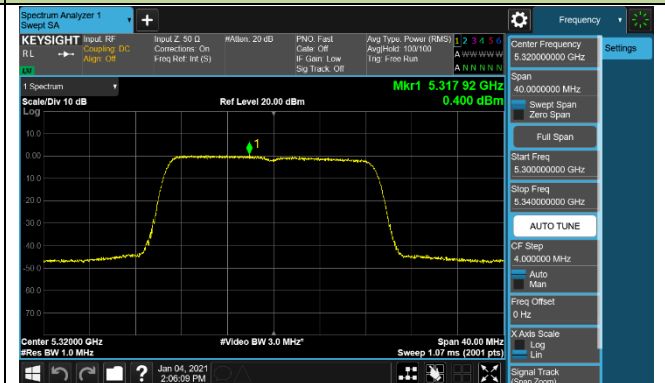
Channel 52 (5260MHz)



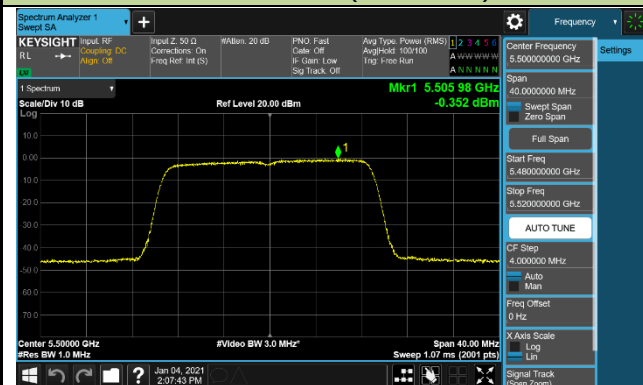
Channel 60 (5300MHz)



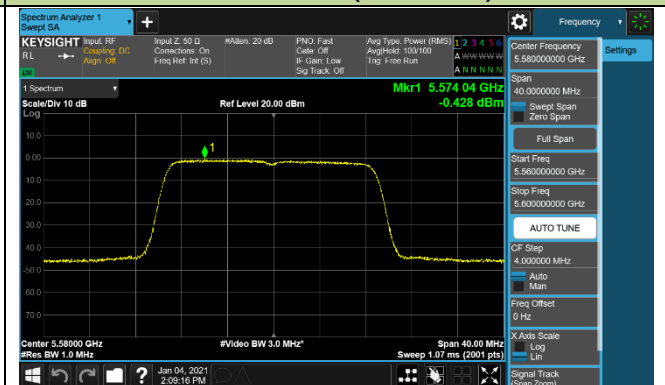
Channel 64 (5320MHz)



Channel 100 (5500MHz)

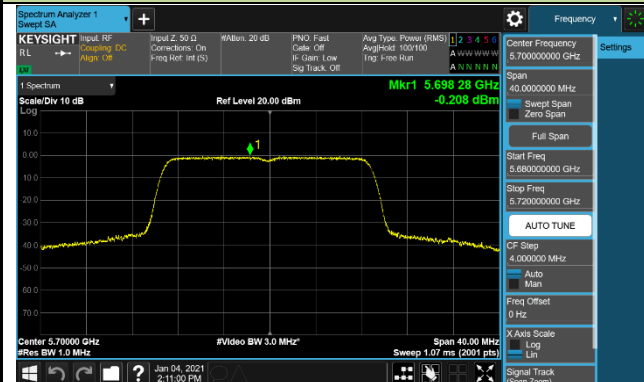


Channel 116 (5580MHz)

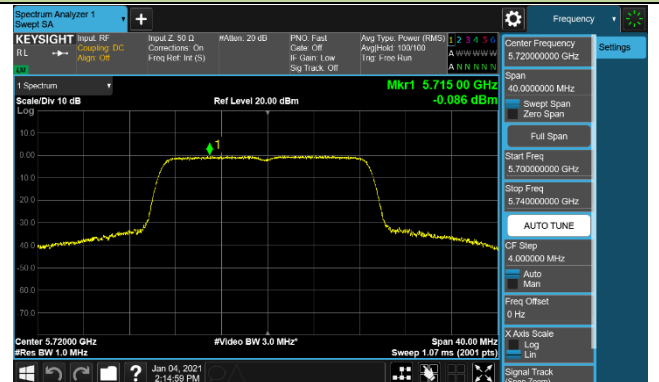


802.11ac-VHT20 Power Spectral Density - Ant 0 / Ant 0 + 1

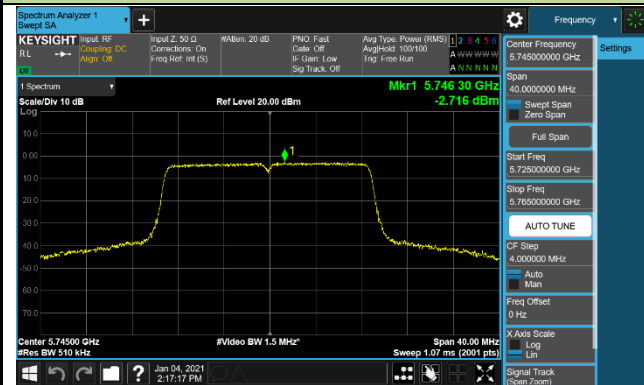
Channel 140 (5700MHz)



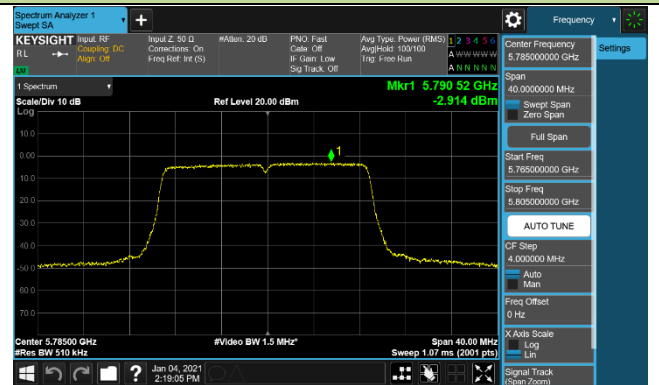
Channel 144 (5720MHz)



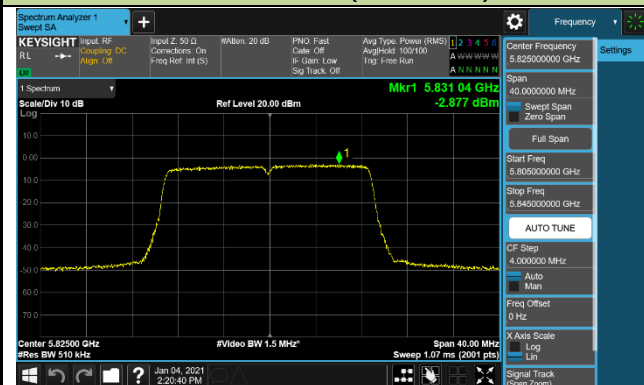
Channel 149 (5745MHz)



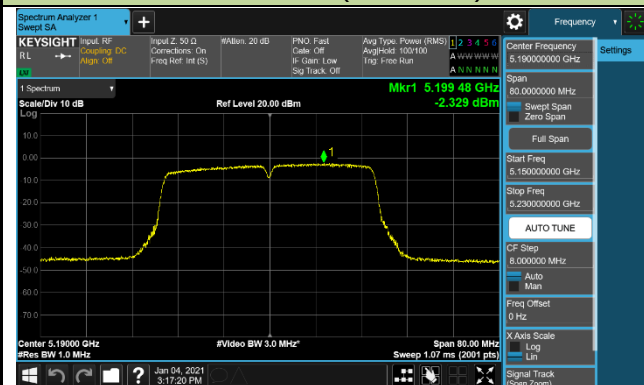
Channel 157 (5785MHz)



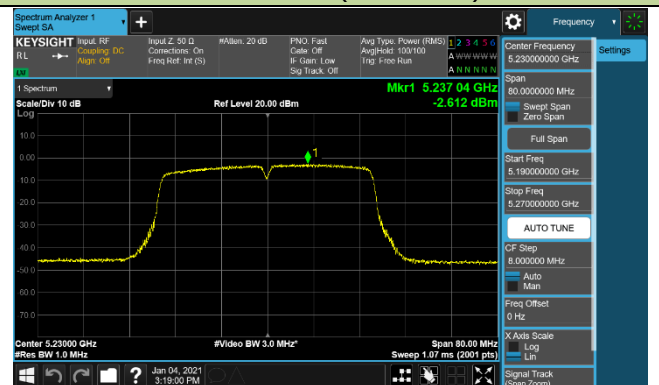
Channel 165 (5825MHz)



Channel 38 (5190MHz)

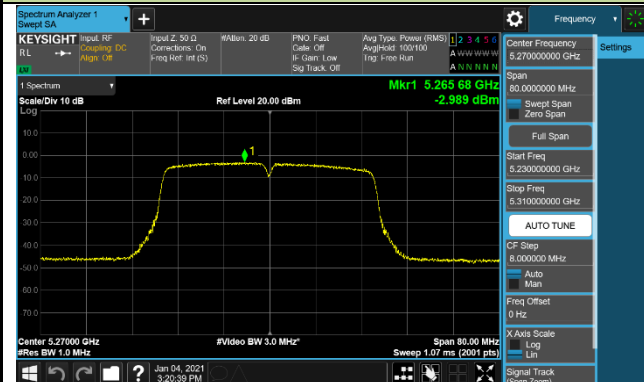


Channel 46 (5230MHz)

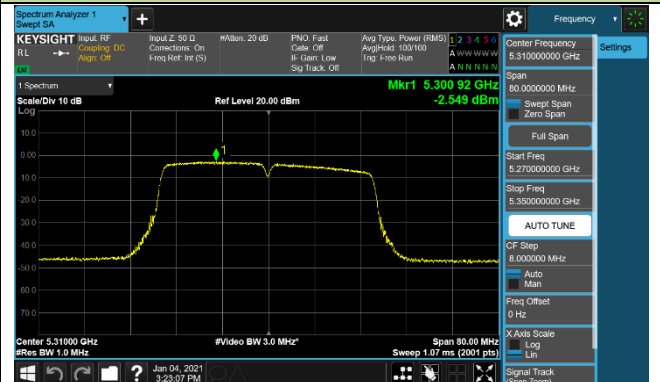


802.11ac-VHT40 Power Spectral Density - Ant 0 / Ant 0 + 1

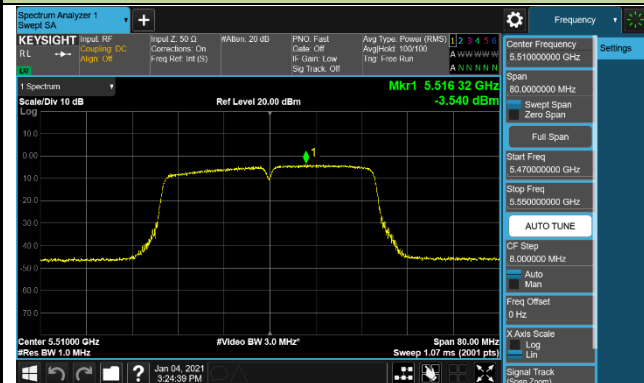
Channel 54 (5270MHz)



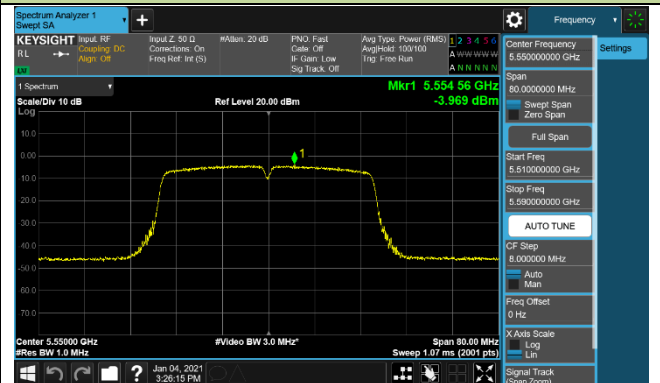
Channel 62 (5310MHz)



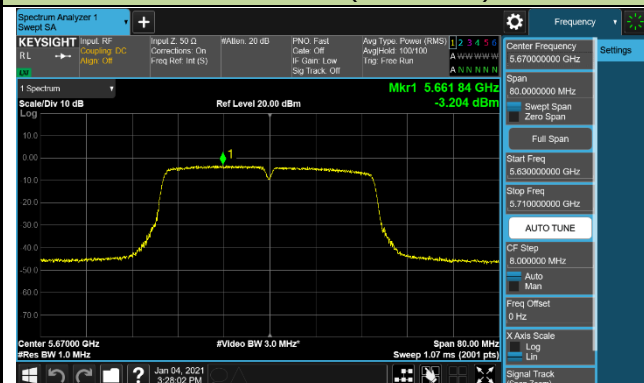
Channel 102 (5510MHz)



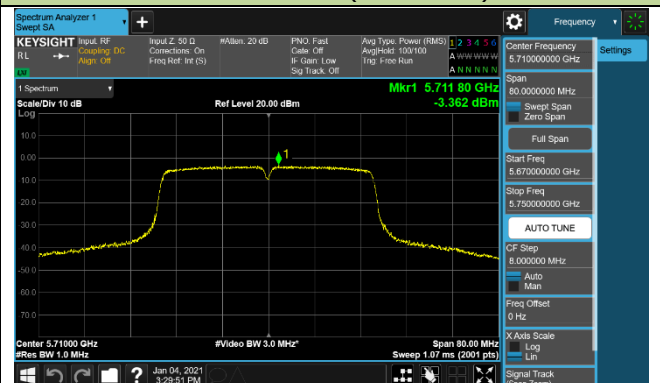
Channel 110 (5550MHz)



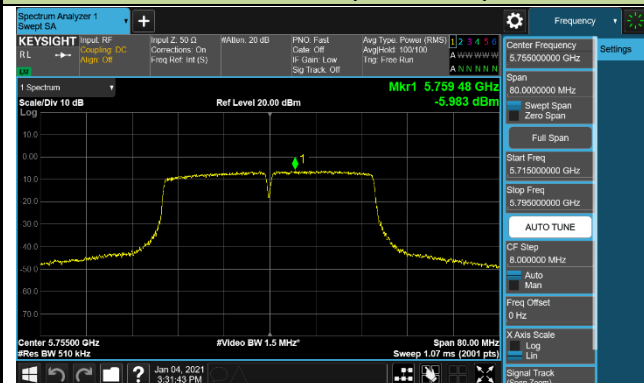
Channel 134 (5670MHz)



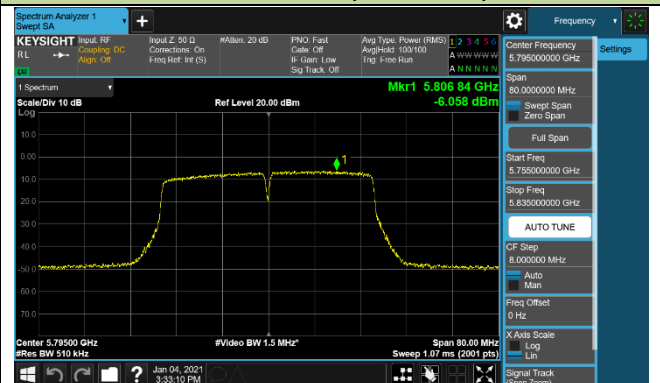
Channel 142 (5710MHz)



Channel 151 (5755MHz)

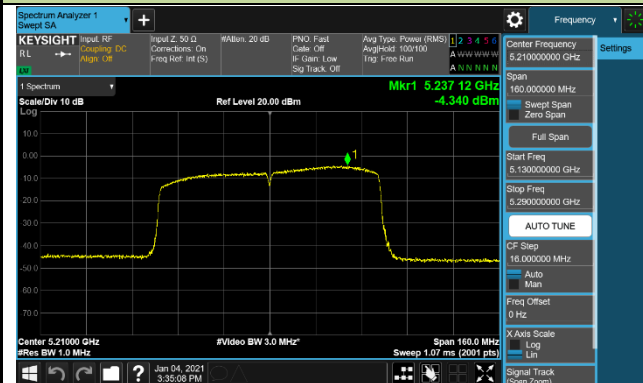


Channel 159 (5795MHz)

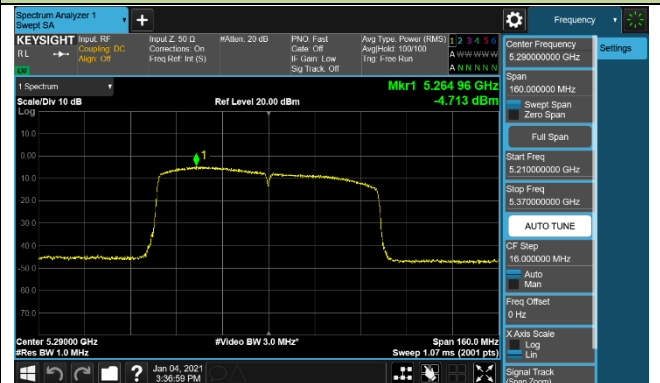


802.11ac-VHT80 Power Spectral Density - Ant 0 / Ant 0 + 1

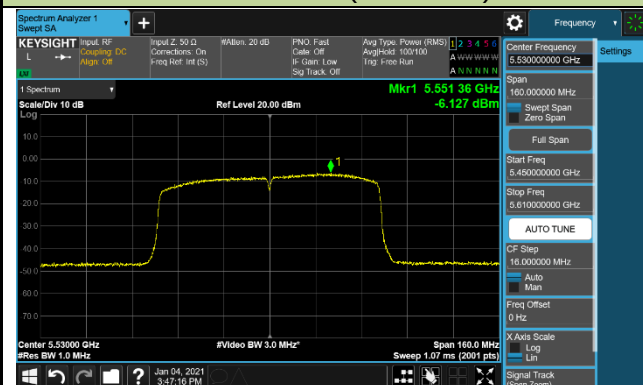
Channel 42 (5210MHz)



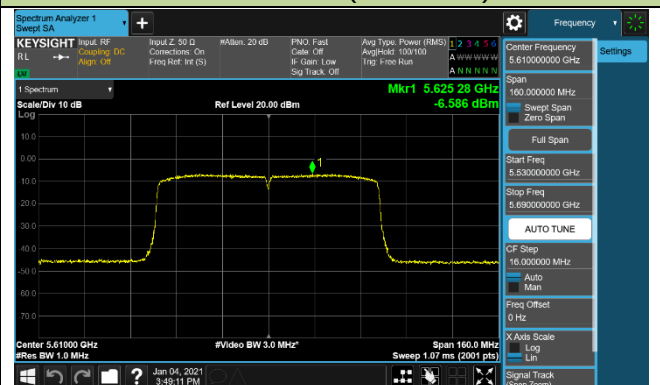
Channel 58 (5290MHz)



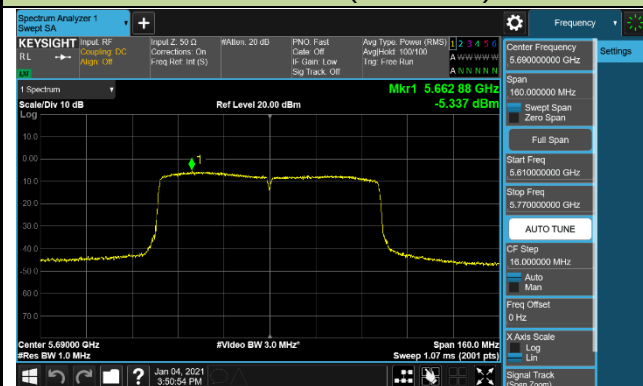
Channel 106 (5530MHz)



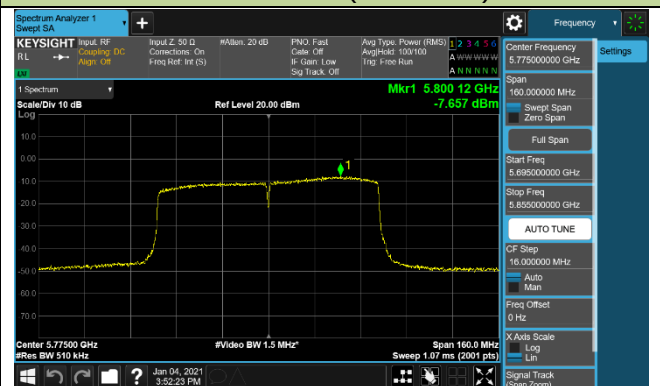
Channel 122 (5610MHz)



Channel 138 (5690MHz)

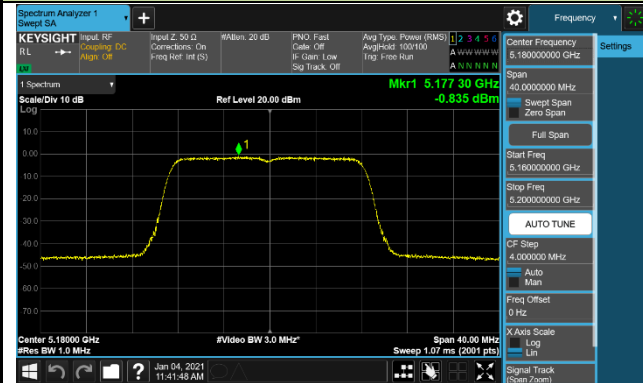


Channel 155 (5775MHz)

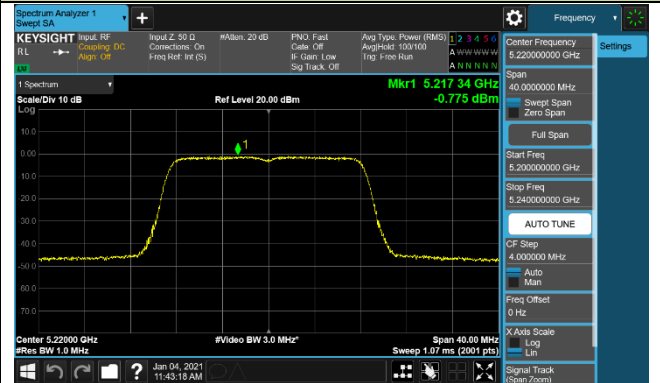


802.11a Power Spectral Density - Ant 1 / Ant 0 + 1

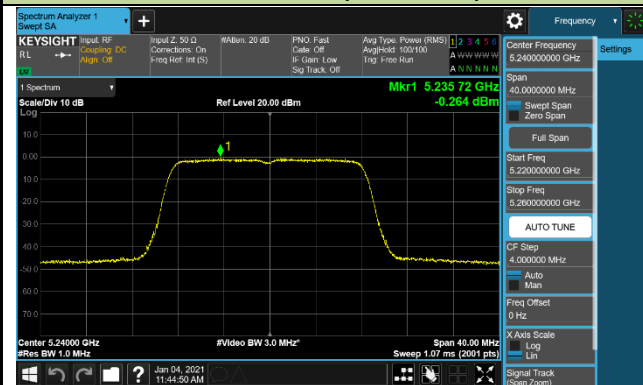
Channel 36 (5180MHz)



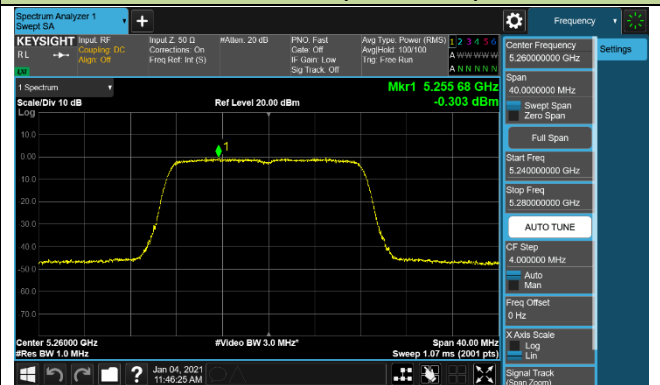
Channel 44 (5220MHz)



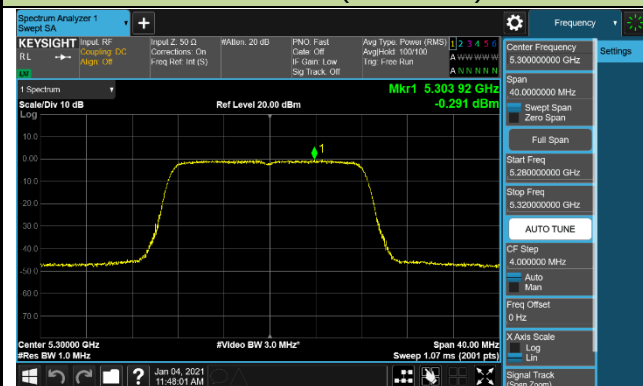
Channel 48 (5240MHz)



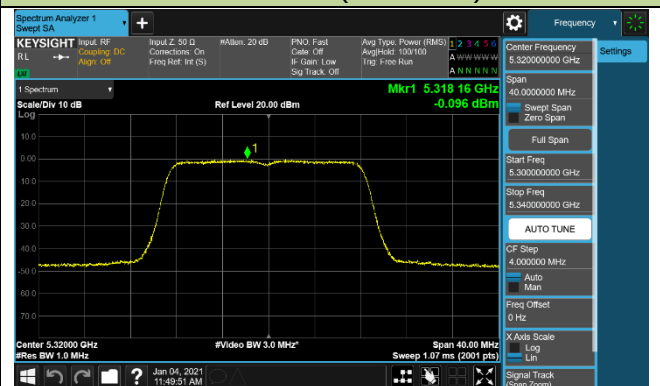
Channel 52 (5260MHz)



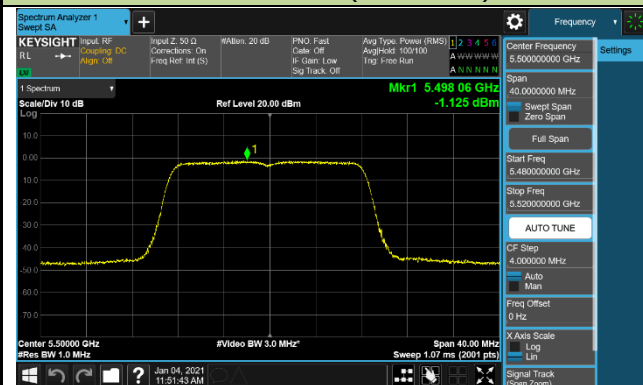
Channel 60 (5300MHz)



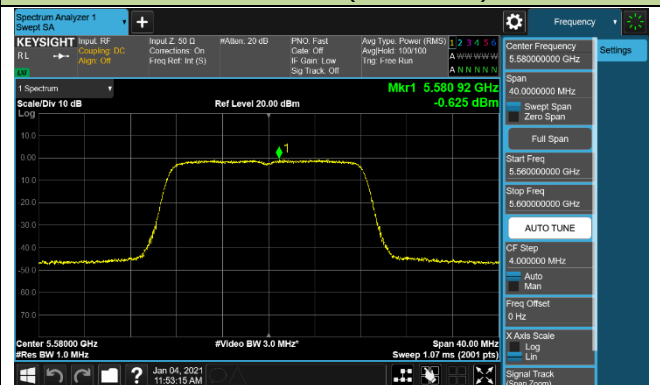
Channel 64 (5320MHz)



Channel 100 (5500MHz)

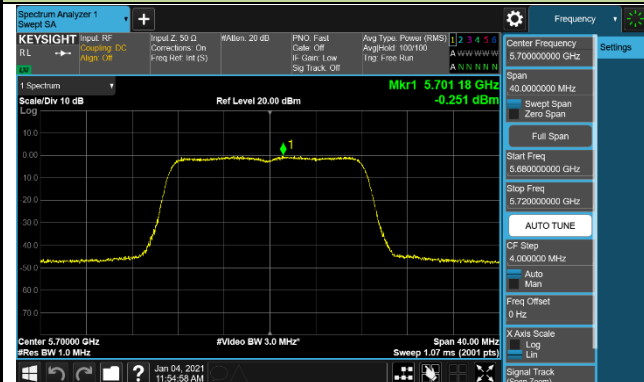


Channel 116 (5580MHz)

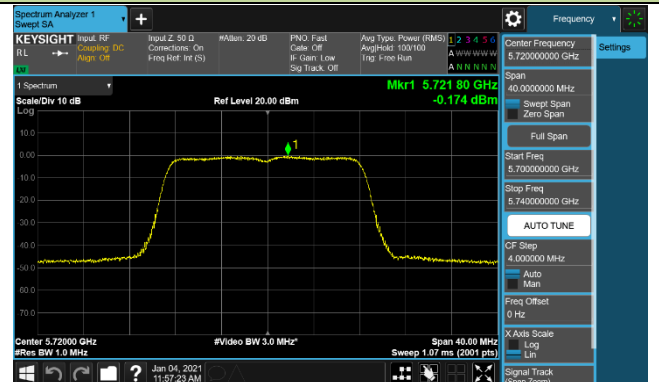


802.11a Power Spectral Density - Ant 1 / Ant 0 + 1

Channel 140 (5700MHz)



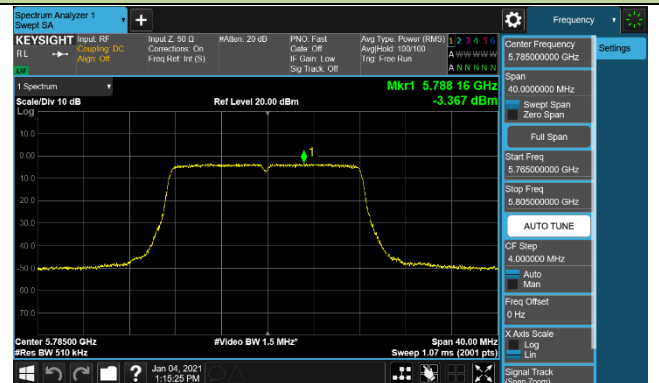
Channel 144 (5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

