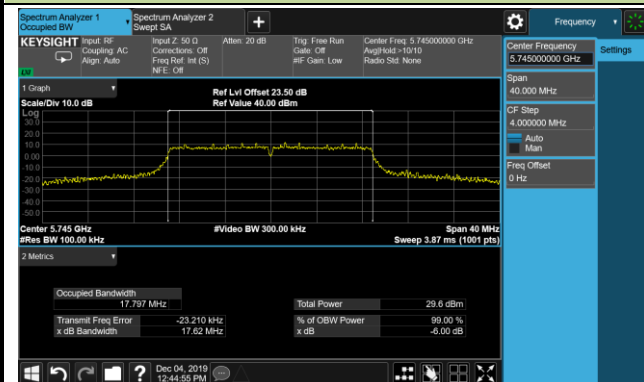
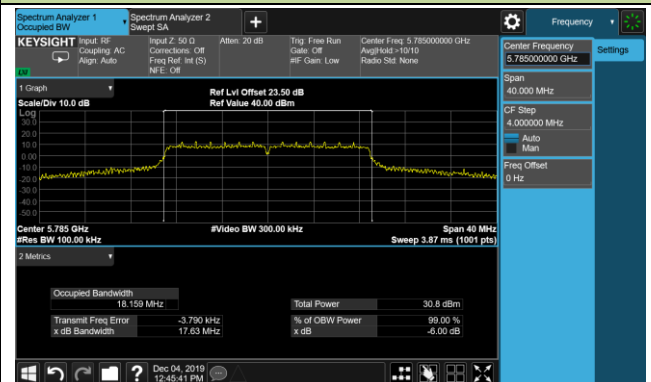


802.11n-HT20 6dB Bandwidth - Ant 8 / Ant 8 + 9

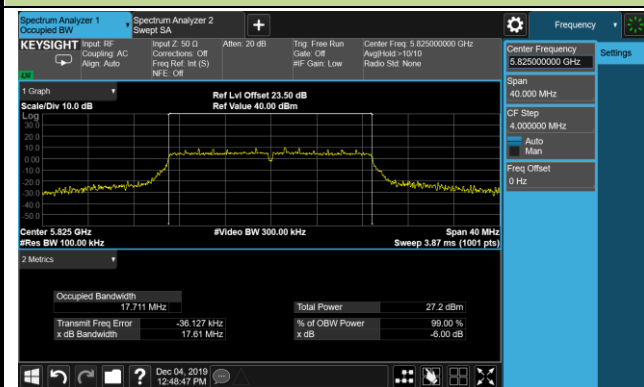
Channel 149 (5745MHz)



Channel 157 (5785MHz)

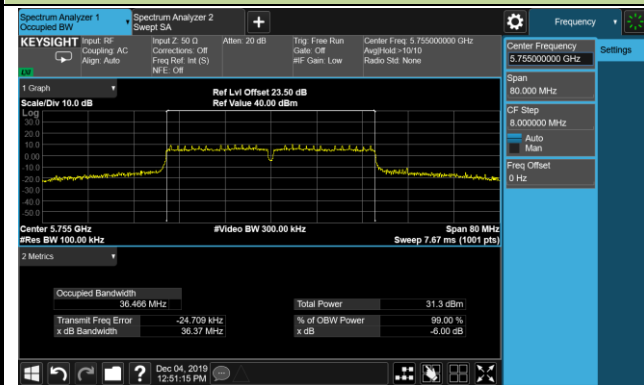


Channel 165 (5825MHz)

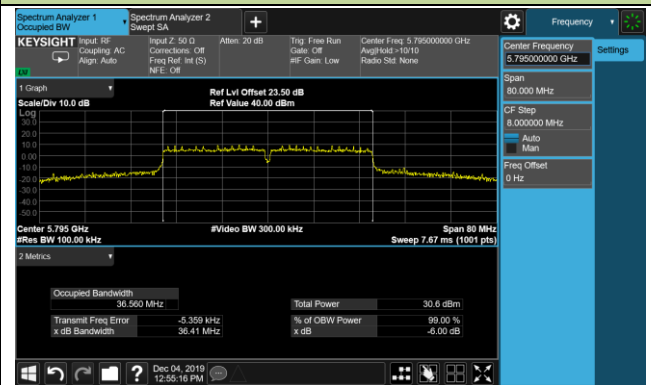


802.11n-HT40 6dB Bandwidth - Ant 8 / Ant 8 + 9

Channel 151 (5755MHz)

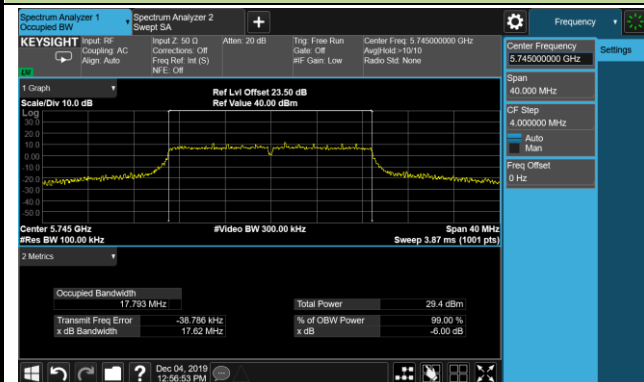


Channel 159 (5795MHz)

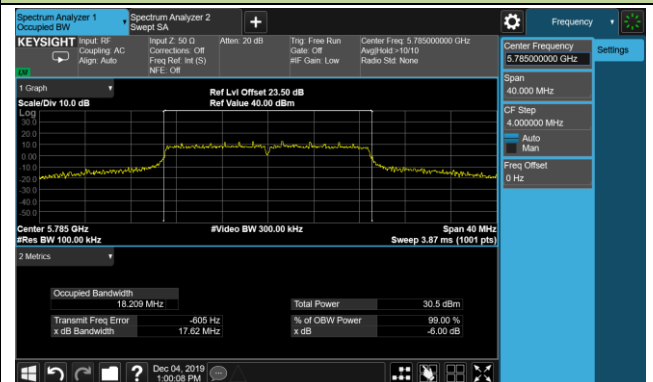


802.11ac-VHT20 6dB Bandwidth - Ant 8 / Ant 8 + 9

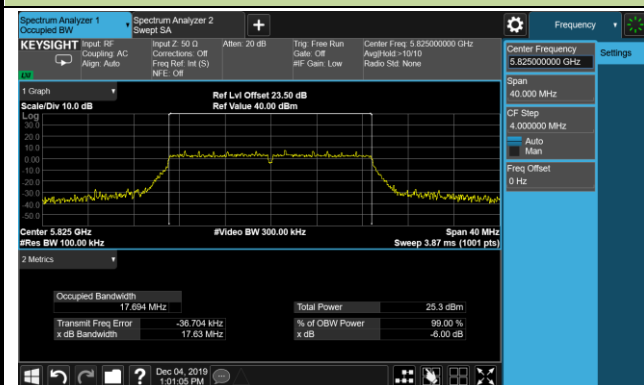
Channel 149 (5745MHz)



Channel 157 (5785MHz)

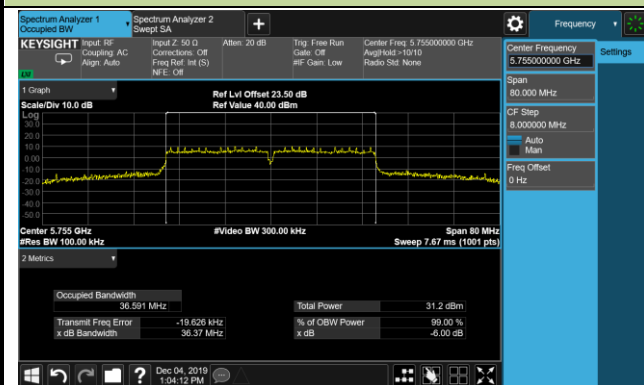


Channel 165 (5825MHz)

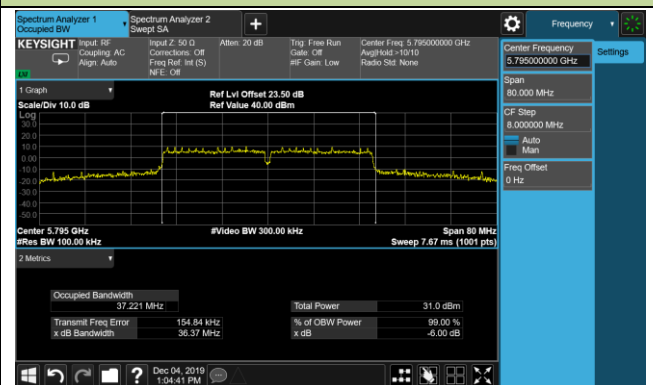


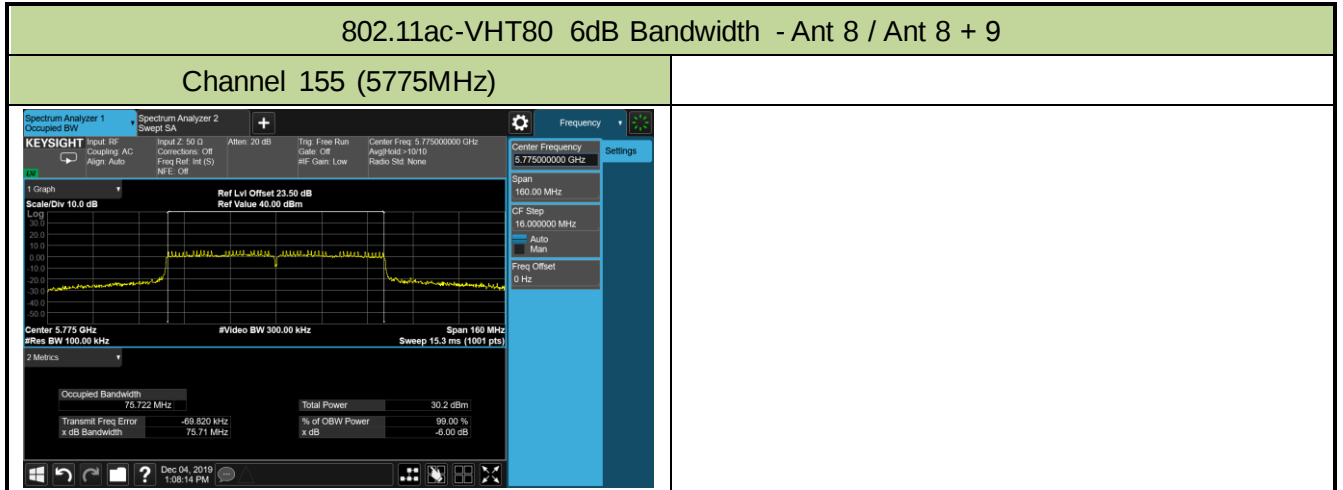
802.11ac-VHT40 6dB Bandwidth - Ant 8 / Ant 8 + 9

Channel 151 (5755MHz)



Channel 159 (5795MHz)





7.4. Output Power Measurement

7.4.1. 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 (23.98dBm) or 11dBm +10 log (26dB BW).

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 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.

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.

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.

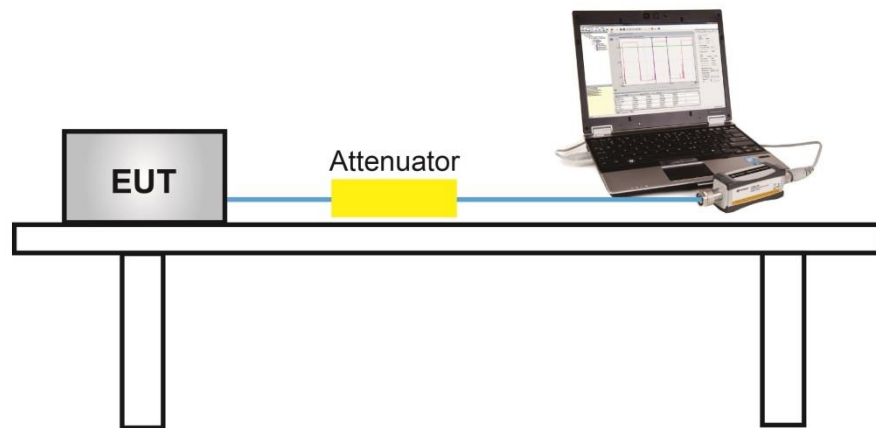
7.4.2. Test Procedure Used

KDB 789033 D02v02r01 - 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

Power output test was verified over all data rates of each mode shown as below table, and then choose the maximum power output (yellow marker) for final test of each channel.

Pre-Test RF Output Power at various data rates for Ant 8

Ant 8 - 802.11a - Channel 64 (5320MHz)								
Date Rate (Mbps)	6	9	12	18	24	36	48	54
Power (dBm)	16.79	16.73	16.69	16.65	16.64	16.59	16.55	16.53

Ant 8 / Ant 8 + 9 - 802.11n-HT20 - Channel 64 (5320MHz)								
Date Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Power (dBm)	18.16	18.08	18.02	17.96	17.90	17.87	17.85	17.83

Ant 8 / Ant 8 + 9 - 802.11n-HT40 - Channel 62 (5310MHz)								
Date Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Power (dBm)	17.42	17.38	17.30	17.28	17.25	17.22	17.16	17.09

Ant 8 / Ant 8 + 9 - 802.11ac-VHT20 - Channel 64 (5320MHz)									
Date Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
Power (dBm)	18.01	17.98	17.95	17.90	17.86	17.83	17.76	17.71	17.69

Ant 8 / Ant 8 + 9 - 802.11ac-VHT40 - Channel 62 (5310MHz)										
Date Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
Power (dBm)	17.63	17.61	17.58	17.54	17.52	17.50	17.49	17.48	17.46	17.45

Ant 8 / Ant 8 + 9 - 802.11ac-VHT80 - Channel 58 (5290MHz)										
Date Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
Power (dBm)	18.51	18.48	18.44	18.40	18.36	18.34	18.32	18.29	18.25	18.23

Product	FastMile 4G Gateway	Temperature	23 ~ 25°C
Test Engineer	Cloud Guo	Relative Humidity	44 ~ 58%
Test Site	TR3	Test Date	2019/11/20 ~ 2019/12/08

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 8 Average Power (dBm)	Ant 9 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
802.11a	6Mbps	36	5180	23.48	--	23.48	≤ 30.00	Pass
802.11a	6Mbps	44	5220	24.41	--	24.41	≤ 30.00	Pass
802.11a	6Mbps	48	5240	23.53	--	23.53	≤ 30.00	Pass
802.11a	6Mbps	52	5260	16.50	--	16.50	≤ 23.98	Pass
802.11a	6Mbps	60	5300	16.68	--	16.68	≤ 23.98	Pass
802.11a	6Mbps	64	5320	16.79	--	16.79	≤ 23.98	Pass
802.11a	6Mbps	100	5500	16.19	--	16.19	≤ 23.98	Pass
802.11a	6Mbps	120	5600	16.30	--	16.30	≤ 23.98	Pass
802.11a	6Mbps	140	5700	16.18	--	16.18	≤ 23.98	Pass
802.11a	6Mbps	144	5720	16.23	--	16.23	≤ 22.79	Pass
802.11a	6Mbps	149	5745	22.23	--	22.23	≤ 30.00	Pass
802.11a	6Mbps	157	5785	23.41	--	23.41	≤ 30.00	Pass
802.11a	6Mbps	165	5825	20.55	--	20.55	≤ 30.00	Pass
802.11n-HT20	MCS0	36	5180	21.03	21.34	24.20	≤ 30.00	Pass
802.11n-HT20	MCS0	44	5220	23.88	24.07	26.99	≤ 30.00	Pass
802.11n-HT20	MCS0	48	5240	24.07	24.22	27.16	≤ 30.00	Pass
802.11n-HT20	MCS0	52	5260	18.29	18.72	21.52	≤ 23.98	Pass
802.11n-HT20	MCS0	60	5300	18.02	18.71	21.39	≤ 23.98	Pass
802.11n-HT20	MCS0	64	5320	18.16	18.55	21.37	≤ 23.98	Pass
802.11n-HT20	MCS0	100	5500	17.69	18.51	21.13	≤ 23.98	Pass
802.11n-HT20	MCS0	120	5600	17.63	18.24	20.96	≤ 23.98	Pass
802.11n-HT20	MCS0	140	5700	17.11	17.92	20.54	≤ 23.98	Pass
802.11n-HT20	MCS0	144	5720	16.92	17.65	20.31	≤ 22.79	Pass
802.11n-HT20	MCS0	149	5745	22.47	22.88	25.69	≤ 30.00	Pass
802.11n-HT20	MCS0	157	5785	23.25	23.65	26.46	≤ 30.00	Pass
802.11n-HT20	MCS0	165	5825	19.89	20.53	23.23	≤ 30.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 8 Average Power (dBm)	Ant 9 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
802.11n-HT40	MCS0	38	5190	17.81	18.15	20.99	≤ 30.00	Pass
802.11n-HT40	MCS0	46	5230	24.30	24.12	27.22	≤ 30.00	Pass
802.11n-HT40	MCS0	54	5270	19.58	19.82	22.71	≤ 23.98	Pass
802.11n-HT40	MCS0	62	5310	17.42	17.48	20.46	≤ 23.98	Pass
802.11n-HT40	MCS0	102	5510	17.71	18.05	20.89	≤ 23.98	Pass
802.11n-HT40	MCS0	118	5590	18.40	18.90	21.67	≤ 23.98	Pass
802.11n-HT40	MCS0	134	5670	18.71	19.14	21.94	≤ 23.98	Pass
802.11n-HT40	MCS0	142	5710	19.02	19.14	22.09	≤ 23.98	Pass
802.11n-HT40	MCS0	151	5755	23.43	23.75	26.60	≤ 30.00	Pass
802.11n-HT40	MCS0	159	5795	22.91	23.57	26.26	≤ 30.00	Pass
802.11ac-VHT20	MCS0	36	5180	21.18	21.47	24.34	≤ 30.00	Pass
802.11ac-VHT20	MCS0	44	5220	24.26	24.32	27.30	≤ 30.00	Pass
802.11ac-VHT20	MCS0	48	5240	23.74	24.30	27.04	≤ 30.00	Pass
802.11ac-VHT20	MCS0	52	5260	18.19	18.58	21.40	≤ 23.98	Pass
802.11ac-VHT20	MCS0	60	5300	17.97	18.56	21.29	≤ 23.98	Pass
802.11ac-VHT20	MCS0	64	5320	18.01	18.28	21.16	≤ 23.98	Pass
802.11ac-VHT20	MCS0	100	5500	17.74	18.52	21.16	≤ 23.98	Pass
802.11ac-VHT20	MCS0	120	5600	17.89	18.51	21.22	≤ 23.98	Pass
802.11ac-VHT20	MCS0	140	5700	17.37	18.25	20.84	≤ 23.98	Pass
802.11ac-VHT20	MCS0	144	5720	17.35	18.07	20.74	≤ 22.80	Pass
802.11ac-VHT20	MCS0	149	5745	22.61	22.91	25.77	≤ 30.00	Pass
802.11ac-VHT20	MCS0	157	5785	23.16	23.73	26.46	≤ 30.00	Pass
802.11ac-VHT20	MCS0	165	5825	18.01	18.63	21.34	≤ 30.00	Pass
802.11ac-VHT40	MCS0	38	5190	17.75	18.28	21.03	≤ 30.00	Pass
802.11ac-VHT40	MCS0	46	5230	23.64	23.86	26.76	≤ 30.00	Pass
802.11ac-VHT40	MCS0	54	5270	19.24	19.47	22.37	≤ 23.98	Pass
802.11ac-VHT40	MCS0	62	5310	17.63	17.38	20.52	≤ 23.98	Pass
802.11ac-VHT40	MCS0	102	5510	17.74	18.02	20.89	≤ 23.98	Pass
802.11ac-VHT40	MCS0	118	5590	18.89	19.36	22.14	≤ 23.98	Pass
802.11ac-VHT40	MCS0	134	5670	19.02	19.17	22.11	≤ 23.98	Pass
802.11ac-VHT40	MCS0	142	5710	18.76	19.05	21.92	≤ 23.98	Pass
802.11ac-VHT40	MCS0	151	5755	23.68	23.98	26.84	≤ 30.00	Pass
802.11ac-VHT40	MCS0	159	5795	23.12	23.81	26.49	≤ 30.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 8 Average Power (dBm)	Ant 9 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
802.11ac-VHT80	MCS0	42	5210	15.92	16.62	19.29	≤ 30.00	Pass
802.11ac-VHT80	MCS0	58	5290	18.51	18.97	21.76	≤ 23.98	Pass
802.11ac-VHT80	MCS0	106	5530	17.61	17.91	20.77	≤ 23.98	Pass
802.11ac-VHT80	MCS0	122	5610	18.84	19.26	22.07	≤ 23.98	Pass
802.11ac-VHT80	MCS0	138	5690	18.76	19.25	22.02	≤ 23.98	Pass
802.11ac-VHT80	MCS0	155	5775	22.02	22.75	25.41	≤ 30.00	Pass

Note 1: Total Average Power (dBm) = $10 \cdot \log \{10^{[\text{Ant 8 Average Power (dBm)} / 10]} + 10^{[\text{Ant 9 Average Power (dBm)} / 10]}\}$.

Note 2: Average Power Limit Calculation as below:

For 5150-5250MHz: Limit = 30.00dBm.

For 5250-5350MHz & 5470-5725MHz:

802.11a: Limit = $11 + 10 \cdot \log(20.06\text{MHz}) = 24.02\text{dBm} > 23.98\text{dBm}$.

802.11n-HT20: Limit = $11 + 10 \cdot \log(20.35\text{MHz}) = 24.09\text{dBm} > 23.98\text{dBm}$.

802.11ac-VHT20: Limit = $11 + 10 \cdot \log(20.19\text{MHz}) = 24.05\text{dBm} > 23.98\text{dBm}$.

802.11n-HT40/ac-VHT40/ac-VHT80: Limit = 23.98dBm.

For channel s operating in both U-NII-2C and U-NII-3:

802.11a (5720MHz): Limit = $11 + 10 \cdot \log[(20.17\text{MHz}/2) + (5725-5720)] = 22.79\text{dBm} < 23.98\text{dBm}$.

802.11n-HT20 (5720MHz): Limit = $11 + 10 \cdot \log[(20.21\text{MHz}/2) + (5725-5720)] = 22.79\text{dBm} < 23.98\text{dBm}$.

802.11ac-VHT20 (5720MHz): Limit = $11 + 10 \cdot \log[(20.29\text{MHz}/2) + (5725-5720)] = 22.80\text{dBm} < 23.98\text{dBm}$.

802.11n-HT40/ac-VHT40 (5710MHz): Limit = 23.98dBm.

802.11ac-VHT80 (5690MHz): Limit = 23.98dBm.

For 5725-5825MHz: Limit = 30.00dBm.

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.

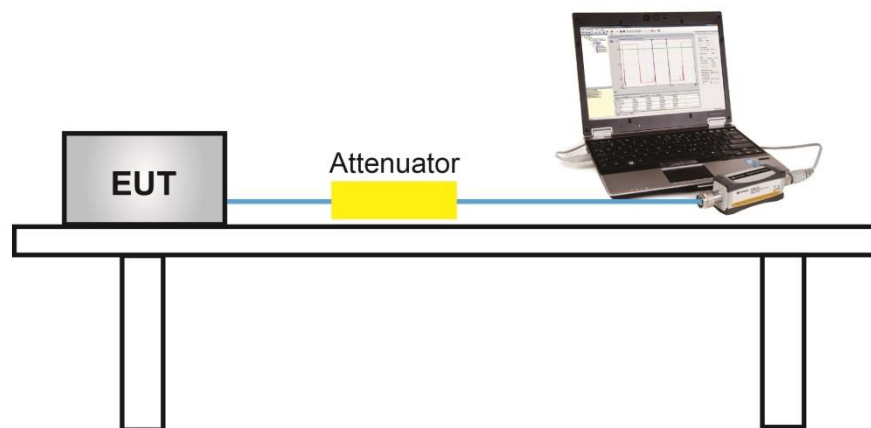
7.5.2. Test Procedure Used

KDB 789033 D02v01 - 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.

7.5.4. Test Setup



7.5.5. Test Result

This device supports the TPC mechanism.

7.6. Power Spectral Density Measurement

7.6.1. 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.

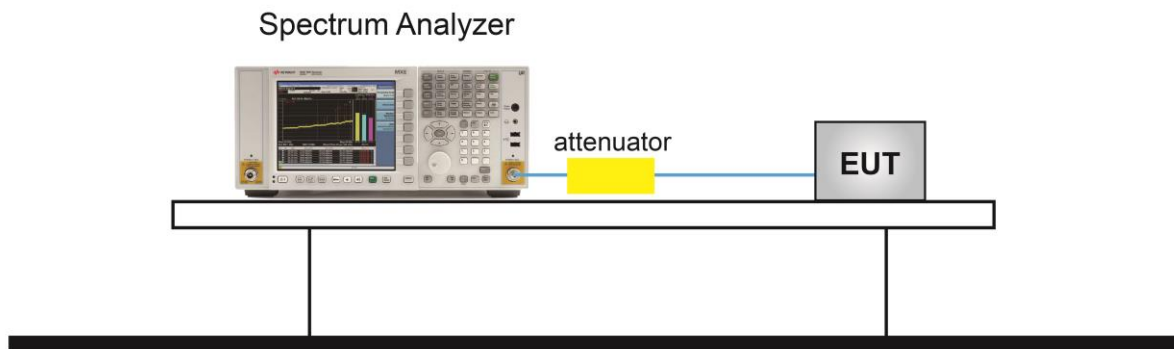
7.6.2. Test Procedure Used

KDB 789033 D02v02r01 - Section F

7.6.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz, if measurement bandwidth of Maximum PSD is specified in 500 kHz,
RBW = 100 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.
11. When the measurement bandwidth of Maximum PSD is specified in 500 kHz, add a constant factor $10 \cdot \log(500\text{kHz}/100\text{kHz}) = 6.99$ dB to the measured result.

7.6.4. Test Setup



7.6.5. Test Result

Product	FastMile 4G Gateway	Temperature	22 ~ 25°C
Test Engineer	Cloud Guo	Relative Humidity	46 ~ 58%
Test Site	TR3	Test Date	2019/11/26 ~ 2019/12/04

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 8 PSD (dBm/ MHz)	Ant 9 PSD (dBm/ MHz)	Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/ MHz)	Result
802.11a	6Mbps	36	5180	11.89	--	95.14	12.11	≤ 15.86	Pass
802.11a	6Mbps	44	5220	12.40	--	95.14	12.62	≤ 15.86	Pass
802.11a	6Mbps	48	5240	12.17	--	95.14	12.39	≤ 15.86	Pass
802.11a	6Mbps	52	5260	6.13	--	95.14	6.35	≤ 9.86	Pass
802.11a	6Mbps	60	5300	6.04	--	95.14	6.26	≤ 9.86	Pass
802.11a	6Mbps	64	5320	6.11	--	95.14	6.33	≤ 9.86	Pass
802.11a	6Mbps	100	5500	5.51	--	95.14	5.73	≤ 9.34	Pass
802.11a	6Mbps	120	5600	5.64	--	95.14	5.86	≤ 9.34	Pass
802.11a	6Mbps	140	5700	5.70	--	95.14	5.92	≤ 9.34	Pass
802.11a	6Mbps	144	5720	5.72	--	95.14	5.94	≤ 9.34	Pass
802.11n-HT20	MCS0	36	5180	9.37	9.94	95.05	12.90	≤ 15.86	Pass
802.11n-HT20	MCS0	44	5220	12.23	12.35	95.05	15.52	≤ 15.86	Pass
802.11n-HT20	MCS0	48	5240	12.21	12.37	95.05	15.52	≤ 15.86	Pass
802.11n-HT20	MCS0	52	5260	6.18	6.74	95.05	9.70	≤ 9.86	Pass
802.11n-HT20	MCS0	60	5300	6.00	6.62	95.05	9.55	≤ 9.86	Pass
802.11n-HT20	MCS0	64	5320	6.11	6.70	95.05	9.65	≤ 9.86	Pass
802.11n-HT20	MCS0	100	5500	5.47	6.32	95.05	9.15	≤ 9.34	Pass
802.11n-HT20	MCS0	120	5600	5.54	6.18	95.05	9.10	≤ 9.34	Pass
802.11n-HT20	MCS0	140	5700	5.32	6.24	95.05	9.04	≤ 9.34	Pass
802.11n-HT20	MCS0	144	5720	5.48	6.48	95.05	9.24	≤ 9.34	Pass
802.11n-HT40	MCS0	38	5190	4.38	5.05	90.53	8.17	≤ 15.86	Pass
802.11n-HT40	MCS0	46	5230	9.42	9.80	90.53	13.06	≤ 15.86	Pass
802.11n-HT40	MCS0	54	5270	5.76	5.58	90.53	9.11	≤ 9.86	Pass
802.11n-HT40	MCS0	62	5310	2.46	2.67	90.53	6.01	≤ 9.86	Pass
802.11n-HT40	MCS0	102	5510	2.68	2.94	90.53	6.25	≤ 9.34	Pass
802.11n-HT40	MCS0	118	5590	3.98	4.75	90.53	7.82	≤ 9.34	Pass
802.11n-HT40	MCS0	134	5670	4.21	4.85	90.53	7.98	≤ 9.34	Pass
802.11n-HT40	MCS0	142	5710	4.62	5.31	90.53	8.42	≤ 9.34	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 8 PSD (dBm/ MHz)	Ant 9 PSD (dBm/ MHz)	Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/ MHz)	Result
802.11ac-VHT20	MCS0	36	5180	10.62	11.07	98.22	13.94	≤ 15.86	Pass
802.11ac-VHT20	MCS0	44	5220	12.40	12.77	98.22	15.68	≤ 15.86	Pass
802.11ac-VHT20	MCS0	48	5240	12.55	12.81	98.22	15.77	≤ 15.86	Pass
802.11ac-VHT20	MCS0	52	5260	6.30	7.08	98.22	9.80	≤ 9.86	Pass
802.11ac-VHT20	MCS0	60	5300	6.24	7.07	98.22	9.76	≤ 9.86	Pass
802.11ac-VHT20	MCS0	64	5320	6.19	6.90	98.22	9.65	≤ 9.86	Pass
802.11ac-VHT20	MCS0	100	5500	5.76	6.47	98.22	9.22	≤ 9.34	Pass
802.11ac-VHT20	MCS0	120	5600	5.79	6.55	98.22	9.27	≤ 9.34	Pass
802.11ac-VHT20	MCS0	140	5700	5.61	6.76	98.22	9.31	≤ 9.34	Pass
802.11ac-VHT20	MCS0	144	5720	5.70	6.61	98.22	9.27	≤ 9.34	Pass
802.11ac-VHT40	MCS0	38	5190	4.35	4.79	97.15	7.71	≤ 15.86	Pass
802.11ac-VHT40	MCS0	46	5230	9.76	10.19	97.15	13.12	≤ 15.86	Pass
802.11ac-VHT40	MCS0	54	5270	4.91	5.24	97.15	8.21	≤ 9.86	Pass
802.11ac-VHT40	MCS0	62	5310	2.34	2.66	97.15	5.64	≤ 9.86	Pass
802.11ac-VHT40	MCS0	102	5510	3.31	3.18	97.15	6.38	≤ 9.34	Pass
802.11ac-VHT40	MCS0	118	5590	4.91	5.64	97.15	8.43	≤ 9.34	Pass
802.11ac-VHT40	MCS0	134	5670	4.69	4.86	97.15	7.91	≤ 9.34	Pass
802.11ac-VHT40	MCS0	142	5710	5.03	5.33	97.15	8.32	≤ 9.34	Pass
802.11ac-VHT80	MCS0	42	5210	-0.85	-0.40	94.01	2.66	≤ 15.86	Pass
802.11ac-VHT80	MCS0	58	5290	0.70	1.08	94.01	4.17	≤ 9.86	Pass
802.11ac-VHT80	MCS0	106	5530	0.03	0.04	94.01	3.31	≤ 9.34	Pass
802.11ac-VHT80	MCS0	122	5610	0.83	1.37	94.01	4.39	≤ 9.34	Pass
802.11ac-VHT80	MCS0	138	5690	0.50	1.44	94.01	4.27	≤ 9.34	Pass

Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = $10 \cdot \log \{10^{[\text{Ant 8 PSD}/10 \text{ (dBm / MHz)}]} + 10^{[\text{Ant 9 PSD}/10 \text{ (dBm / MHz)}]}\} \text{ (dBm/MHz)} + 10 \cdot \log (1/\text{Duty Cycle})$.

Note 2: PSD Limit Calculation as below:

For 5150 - 5250MHz: $17 - (7.14 - 6) = 15.86 \text{ dBm/MHz}$.

For 5250-5350MHz: $11 - (7.14 - 6) = 9.86 \text{ dBm/MHz}$.

For 5470-5725MHz: $11 - (7.66 - 6) = 9.34 \text{ dBm/MHz}$.

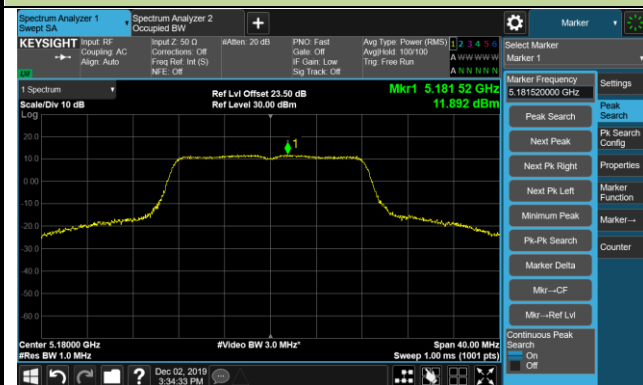
Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 8 PSD (dBm/100kHz)	Ant 9 PSD (dBm/100kHz)	Duty Cycle (%)	Constant Factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
802.11a	6Mbps	149	5745	2.36	--	95.14	6.99	9.57	≤ 28.34	Pass
802.11a	6Mbps	157	5785	3.69	--	95.14	6.99	10.90	≤ 28.34	Pass
802.11a	6Mbps	165	5825	-1.48	--	95.14	6.99	5.73	≤ 28.34	Pass
802.11n-HT20	MCS0	149	5745	2.10	2.76	95.05	6.99	12.66	≤ 28.34	Pass
802.11n-HT20	MCS0	157	5785	2.95	3.34	95.05	6.99	13.37	≤ 28.34	Pass
802.11n-HT20	MCS0	165	5825	-0.06	0.48	95.05	6.99	10.44	≤ 28.34	Pass
802.11n-HT40	MCS0	151	5755	-0.21	0.38	90.53	6.99	10.53	≤ 28.34	Pass
802.11n-HT40	MCS0	159	5795	0.00	0.41	90.53	6.99	10.64	≤ 28.34	Pass
802.11ac-VHT20	MCS0	149	5745	2.21	2.59	98.22	6.99	12.48	≤ 28.34	Pass
802.11ac-VHT20	MCS0	157	5785	2.90	3.70	98.22	6.99	13.40	≤ 28.34	Pass
802.11ac-VHT20	MCS0	165	5825	-1.88	-1.47	98.22	6.99	8.41	≤ 28.34	Pass
802.11ac-VHT40	MCS0	151	5755	0.56	1.03	97.15	6.99	10.93	≤ 28.34	Pass
802.11ac-VHT40	MCS0	159	5795	0.27	1.15	97.15	6.99	10.86	≤ 28.34	Pass
802.11ac-VHT80	MCS0	155	5775	-4.37	-3.81	94.01	6.99	6.19	≤ 28.34	Pass

Note 1: When EUT duty cycle < 98%, the total PSD = $10 \cdot \log\{10^{[\text{Ant 8 PSD (dBm / 100kHz) / 10}] + 10^{[\text{Ant 9 PSD (dBm / 100kHz) / 10}]}} + 10 \cdot \log(1/\text{duty cycle}) + \text{Constant Factor (dB)}.$

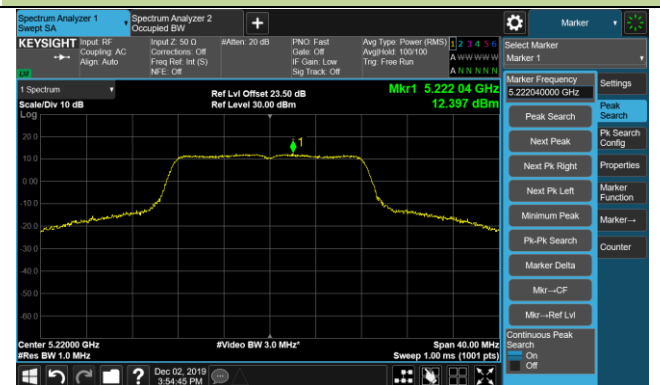
Note 2: PSD Limit Calculation: $30 - (7.66 - 6) = 28.34 \text{ dBm/MHz}$

802.11a Power Spectral Density - Ant 8

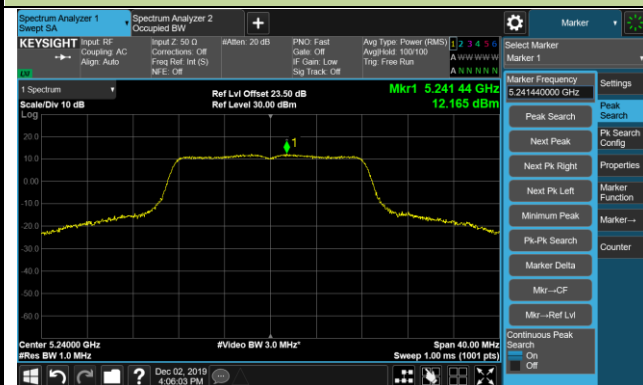
Channel 36 (5180MHz)



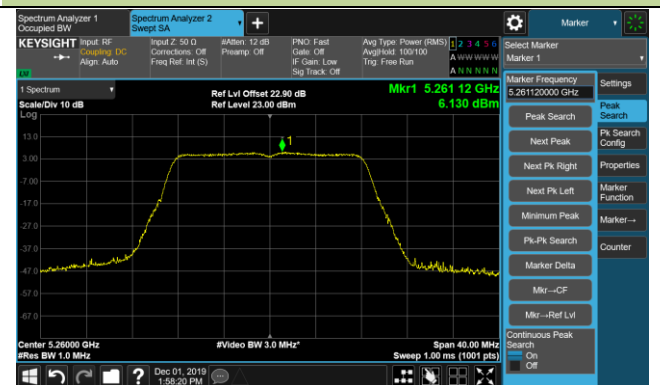
Channel 44 (5220MHz)



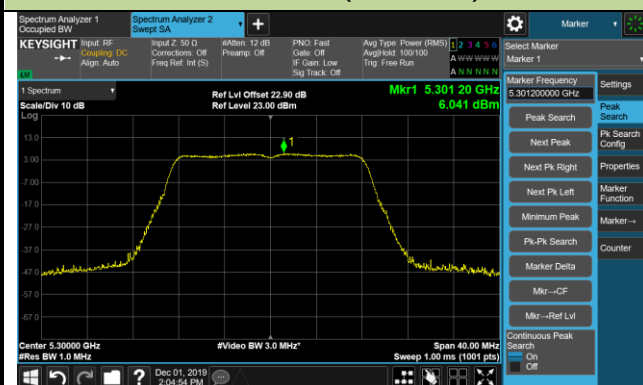
Channel 48 (5240MHz)



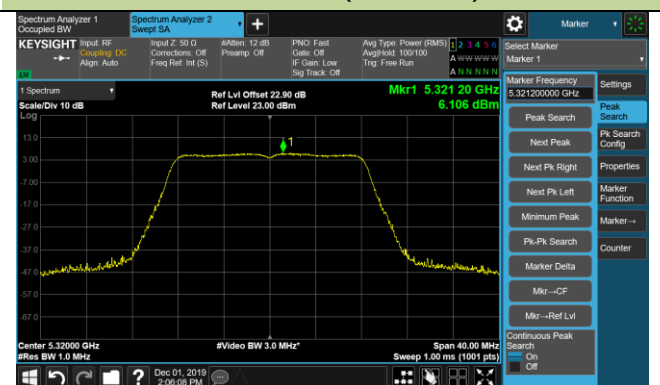
Channel 52 (5260MHz)



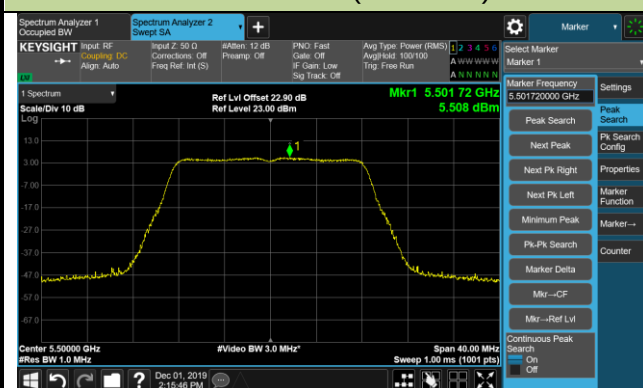
Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)

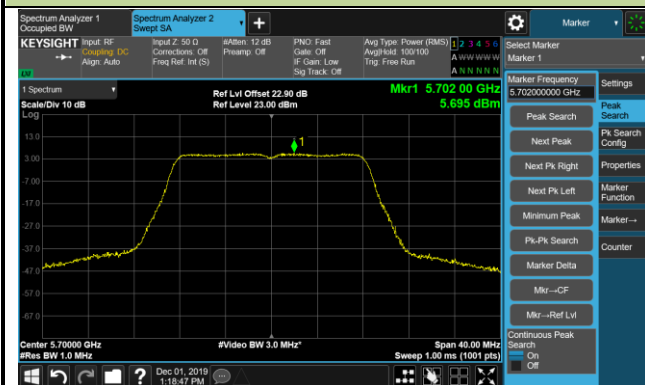


Channel 100 (5600MHz)

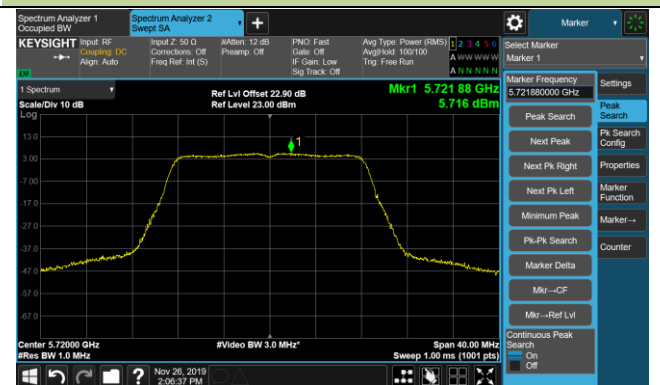


802.11a Power Spectral Density - Ant 8

Channel 140 (5700MHz)



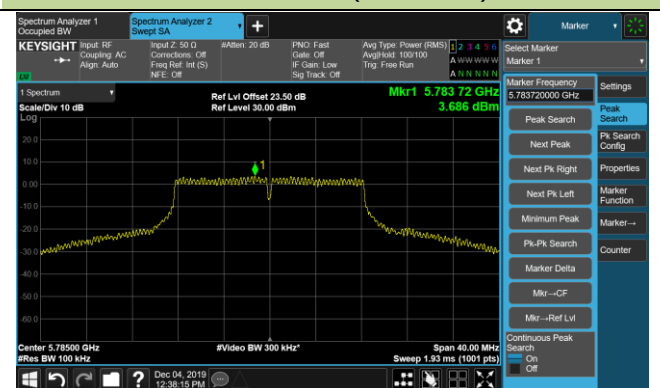
Channel 144 (5720MHz)



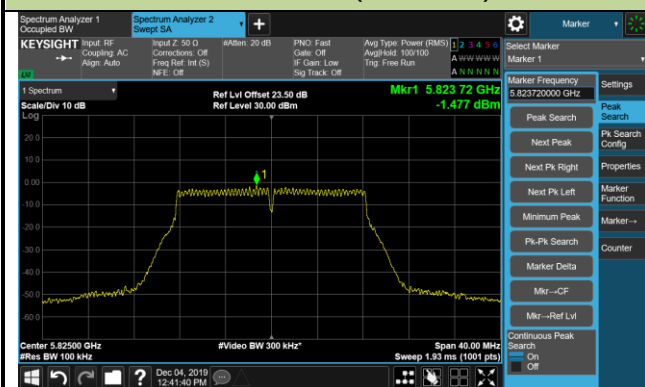
Channel 149 (5745MHz)



Channel 157 (5785MHz)

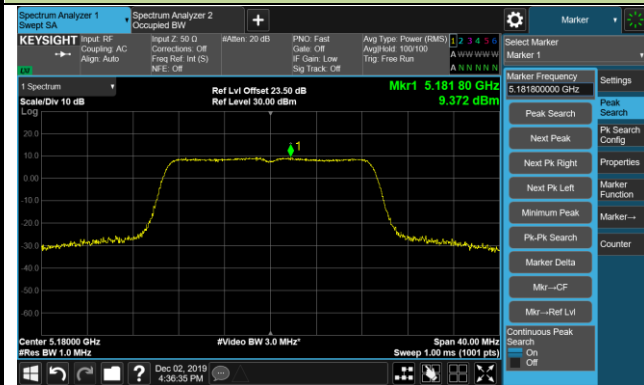


Channel 165 (5825MHz)

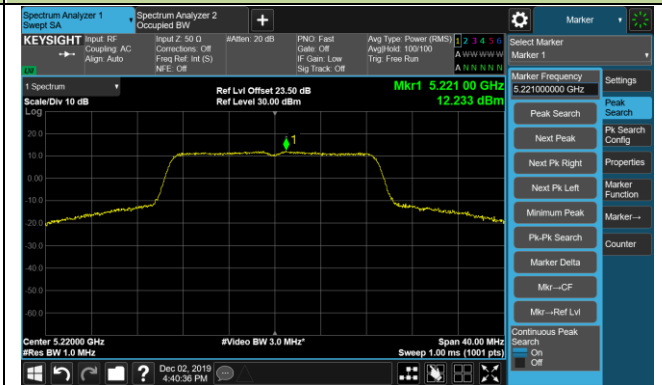


802.11n-HT20 Power Spectral Density - Ant 8 / Ant 8 + 9

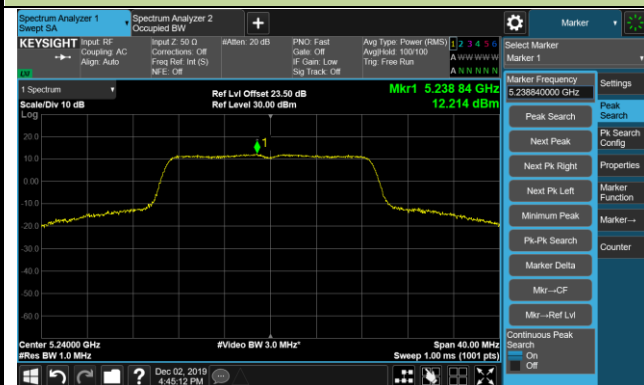
Channel 36 (5180MHz)



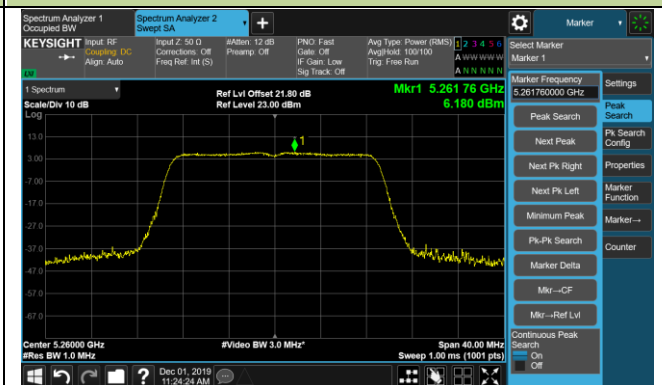
Channel 44 (5220MHz)



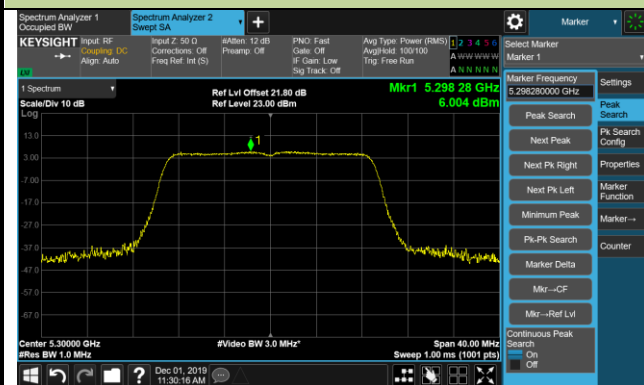
Channel 48 (5240MHz)



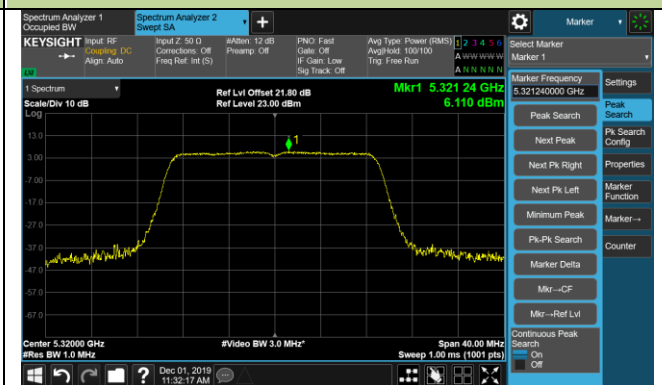
Channel 52 (5260MHz)



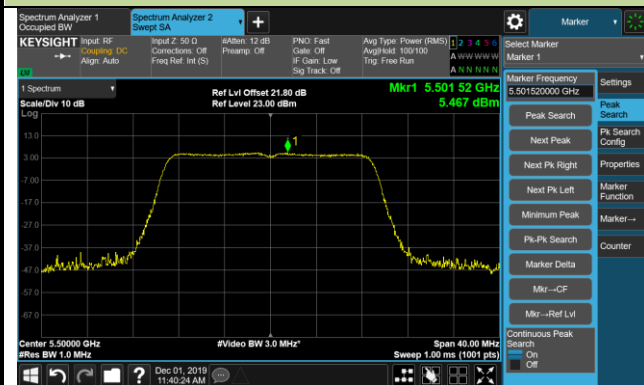
Channel 60 (5300MHz)



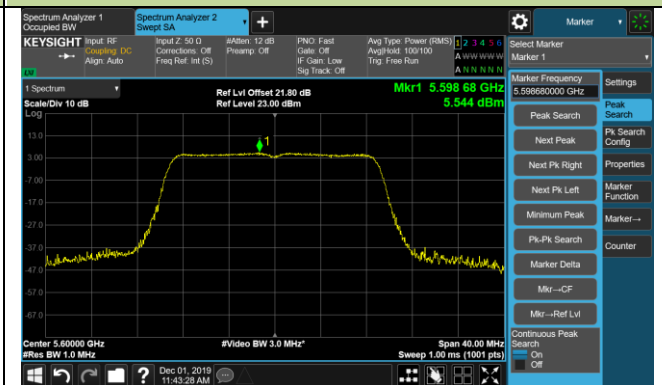
Channel 64 (5320MHz)



Channel 100 (5500MHz)

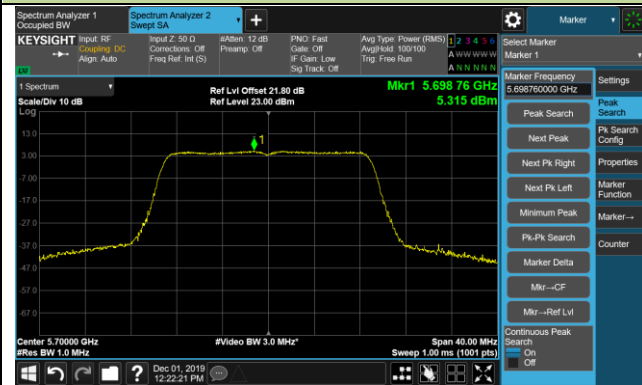


Channel 100 (5600MHz)

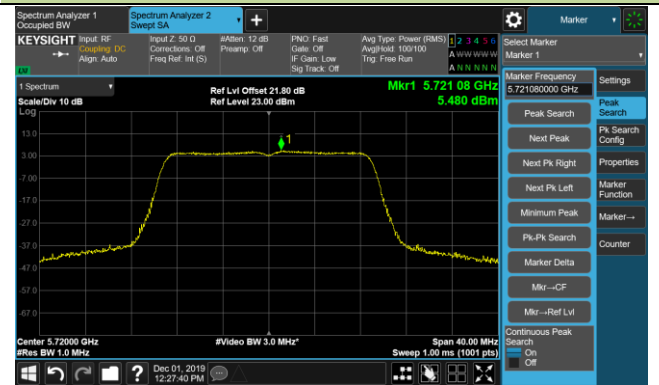


802.11n-HT20 Power Spectral Density - Ant 8 / Ant 8 + 9

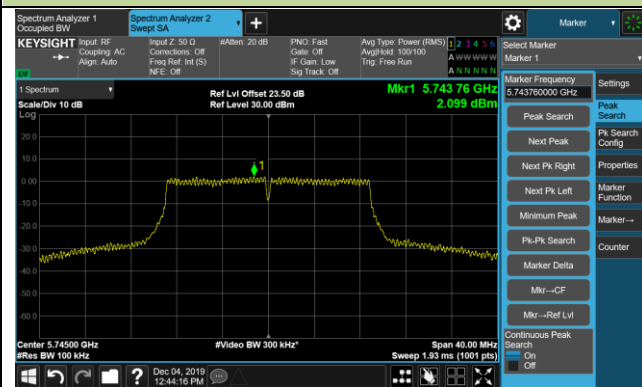
Channel 140 (5700MHz)



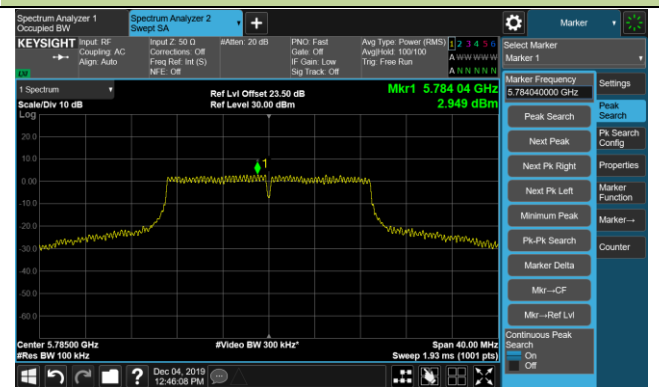
Channel 144 (5720MHz)



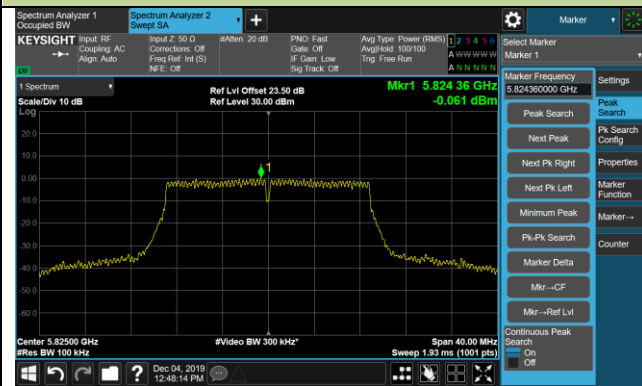
Channel 149 (5745MHz)



Channel 157 (5785MHz)

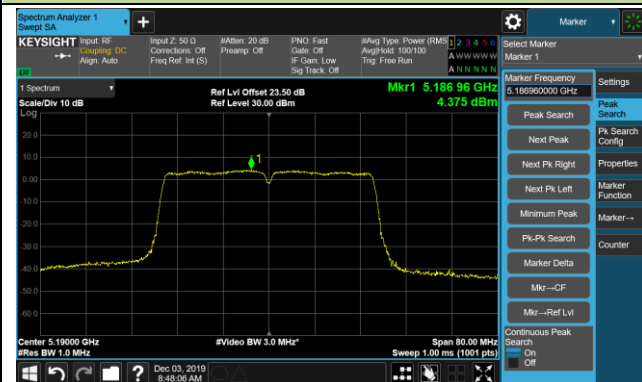


Channel 165 (5825MHz)



802.11n-HT40 Power Spectral Density - Ant 8 / Ant 8 + 9

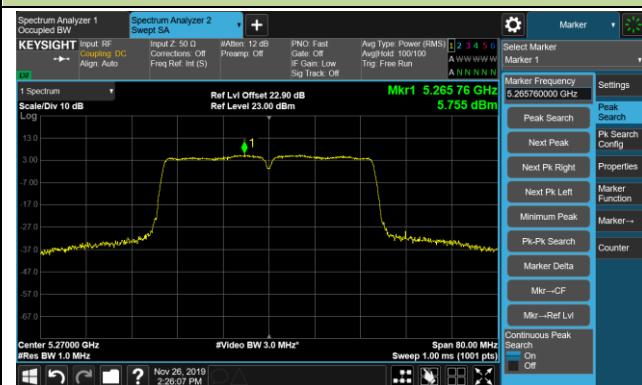
Channel 38 (5190MHz)



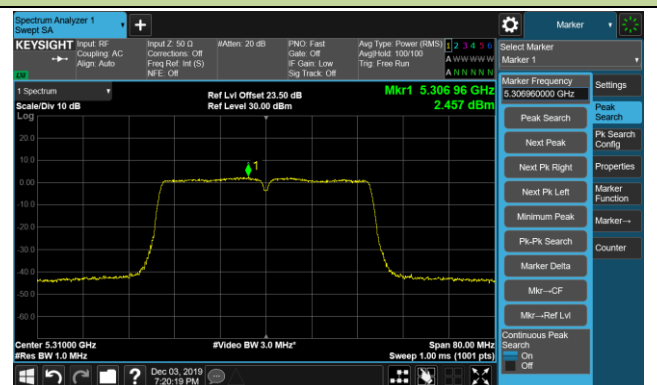
Channel 46 (5230MHz)



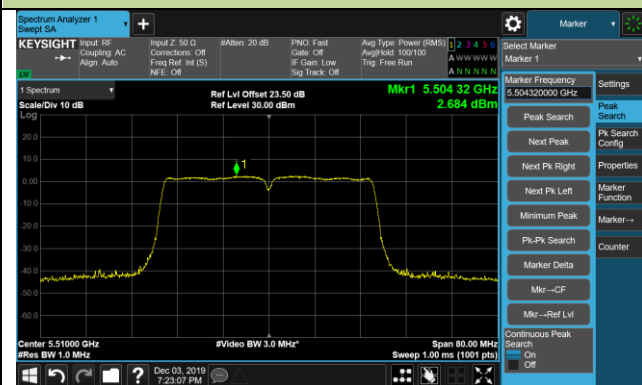
Channel 54 (5270MHz)



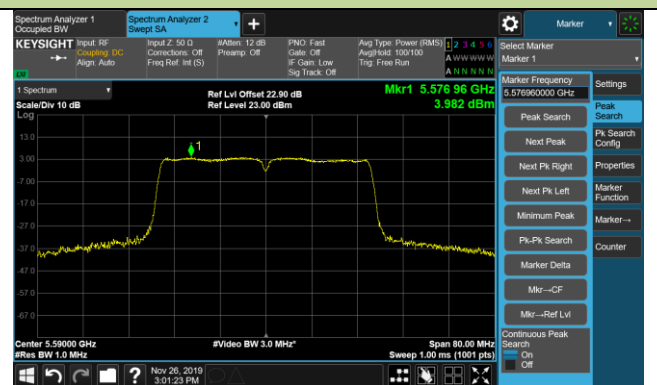
Channel 62 (5310MHz)



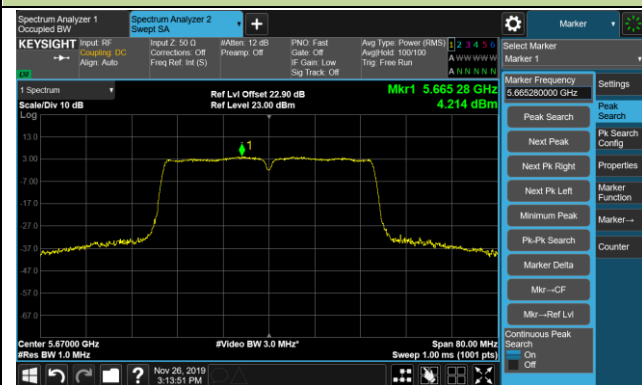
Channel 102 (5510MHz)



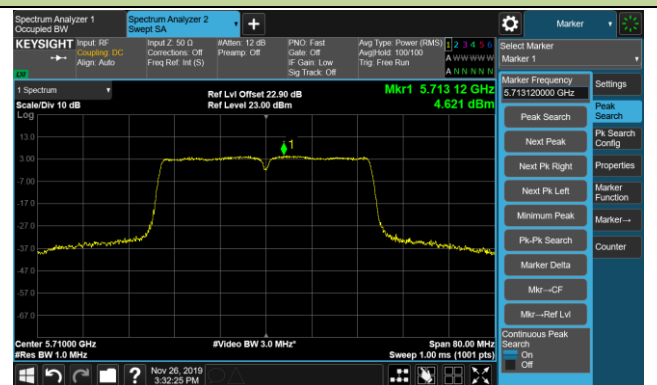
Channel 118 (5590MHz)



Channel 134 (5670MHz)

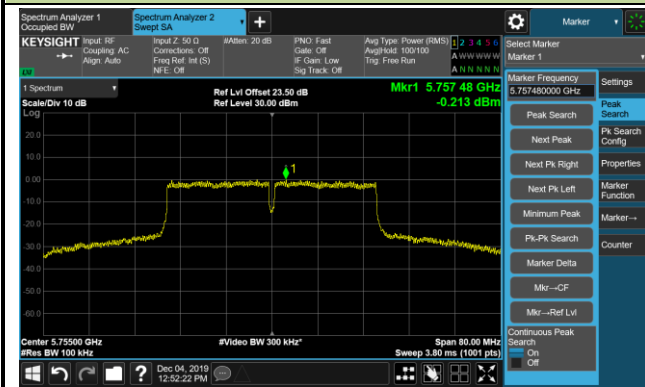


Channel 142 (5710MHz)

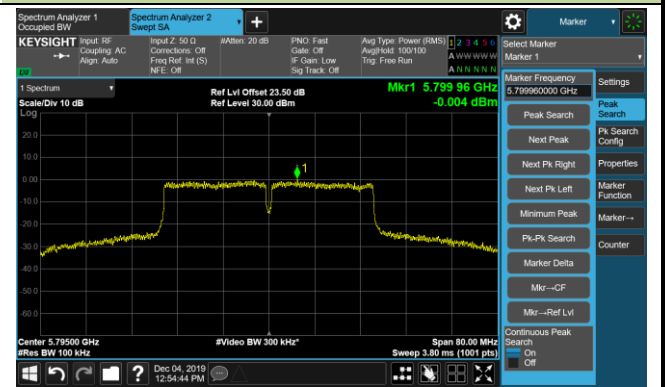


802.11n-HT40 Power Spectral Density - Ant 8 / Ant 8 + 9

Channel 151 (5755MHz)

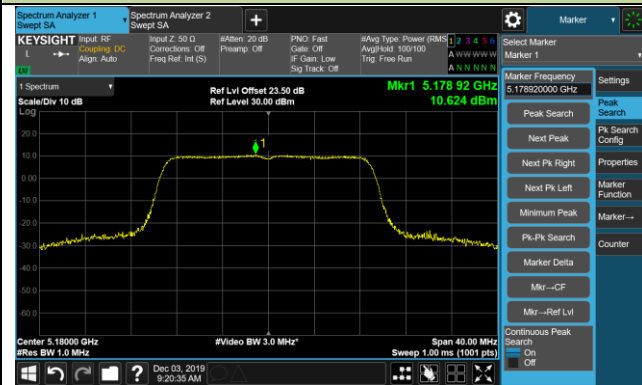


Channel 159 (5795MHz)



802.11ac-VHT20 Power Spectral Density - Ant 8 / Ant 8 + 9

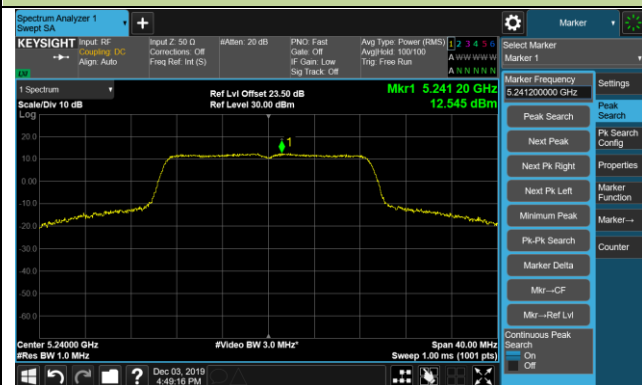
Channel 36 (5180MHz)



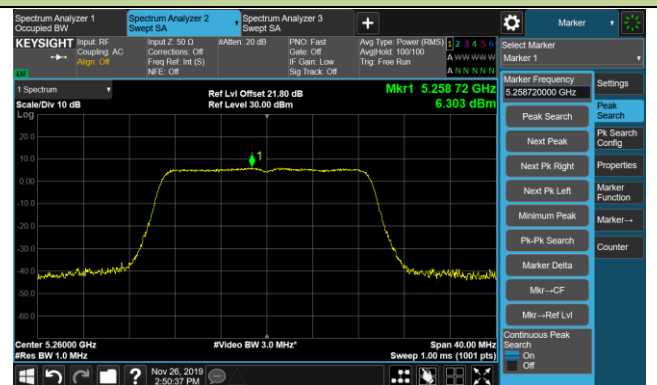
Channel 44 (5220MHz)



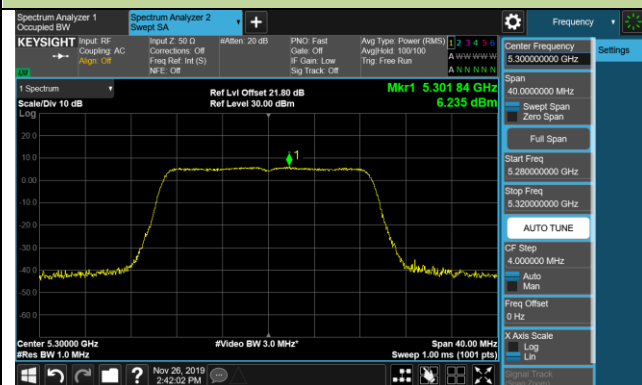
Channel 48 (5240MHz)



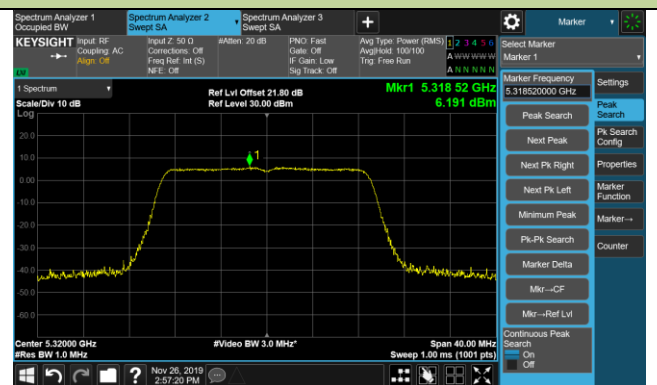
Channel 52 (5260MHz)



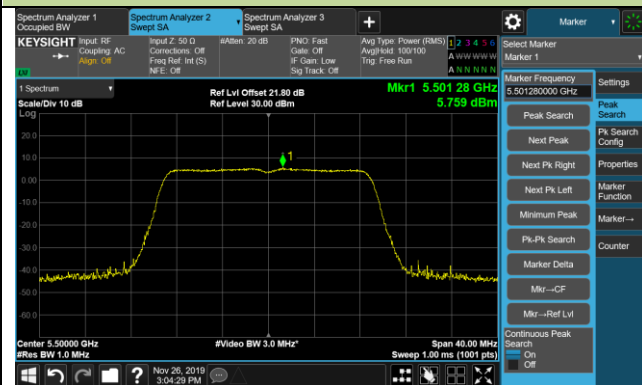
Channel 60 (5300MHz)



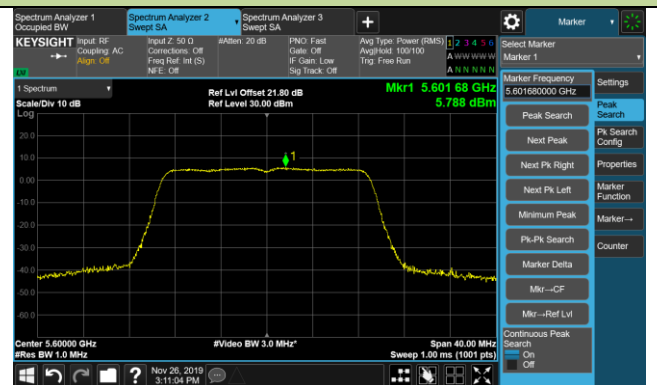
Channel 64 (5320MHz)



Channel 100 (5500MHz)

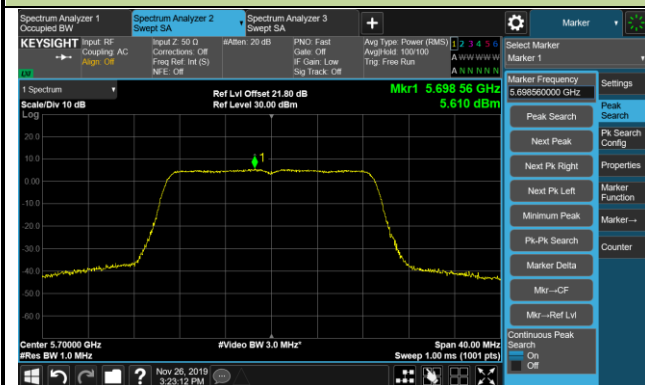


Channel 100 (5600MHz)

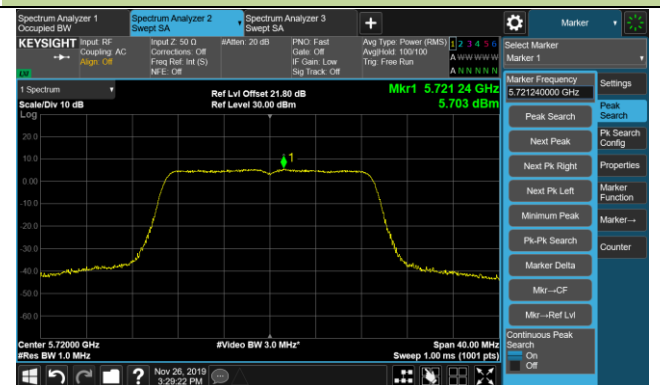


802.11ac-VHT20 Power Spectral Density - Ant 8 / Ant 8 + 9

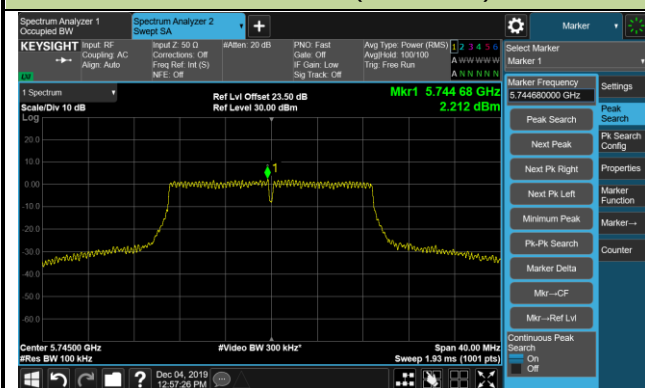
Channel 140 (5700MHz)



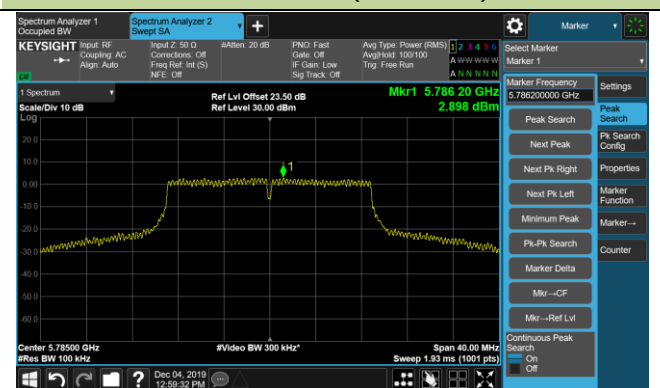
Channel 144 (5720MHz)



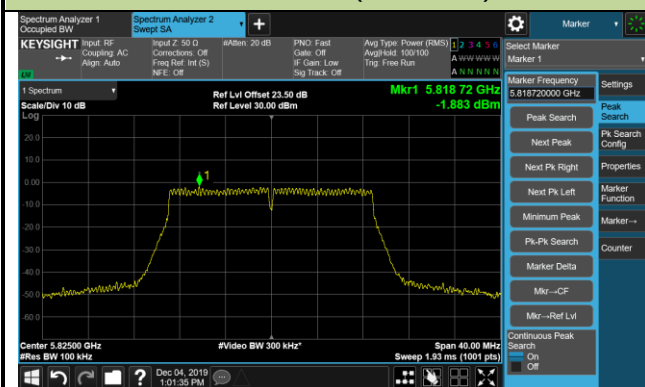
Channel 149 (5745MHz)



Channel 157 (5785MHz)

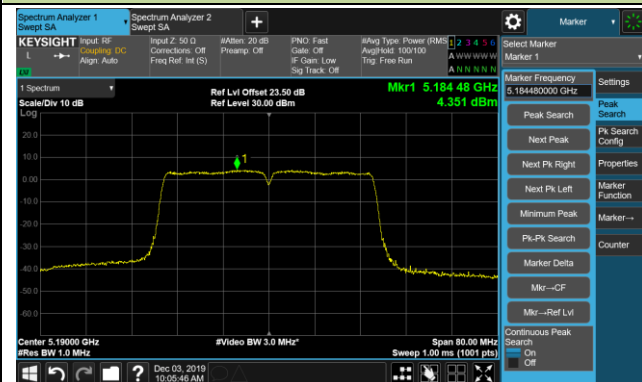


Channel 165 (5825MHz)



802.11ac-VHT40 Power Spectral Density - Ant 8 / Ant 8 + 9

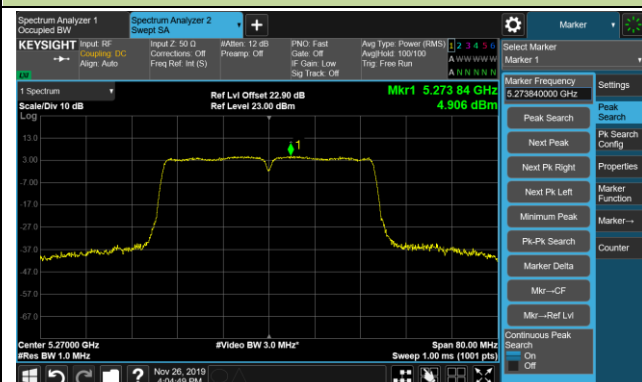
Channel 38 (5190MHz)



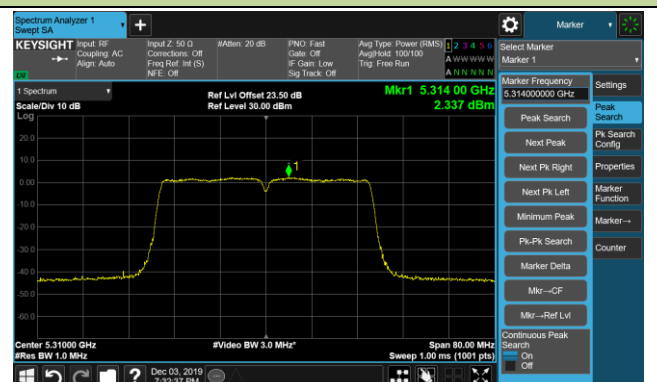
Channel 46 (5230MHz)



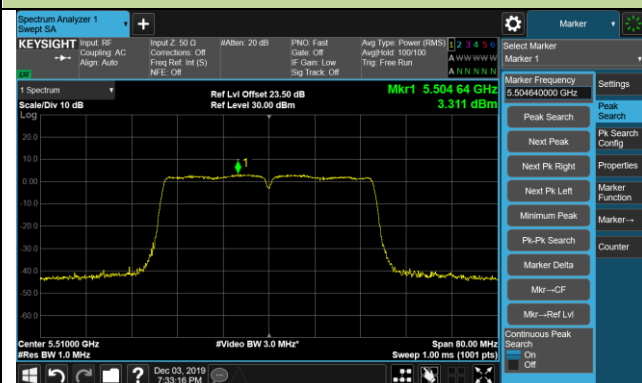
Channel 54 (5270MHz)



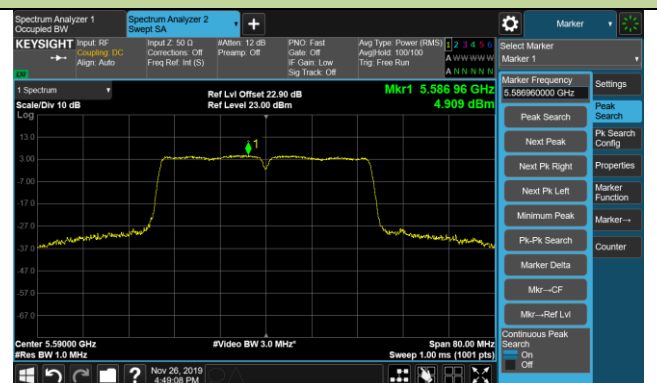
Channel 62 (5310MHz)



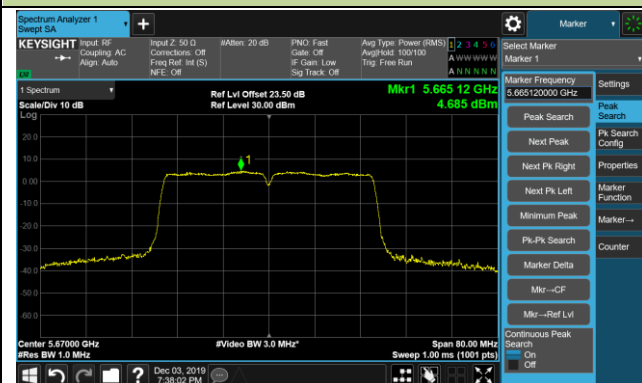
Channel 102 (5510MHz)



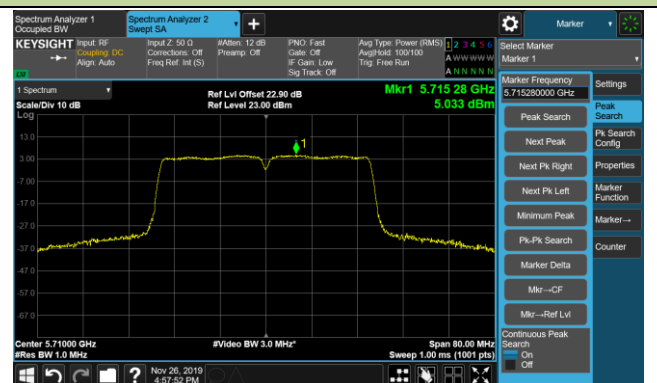
Channel 118 (5590MHz)



Channel 134 (5670MHz)

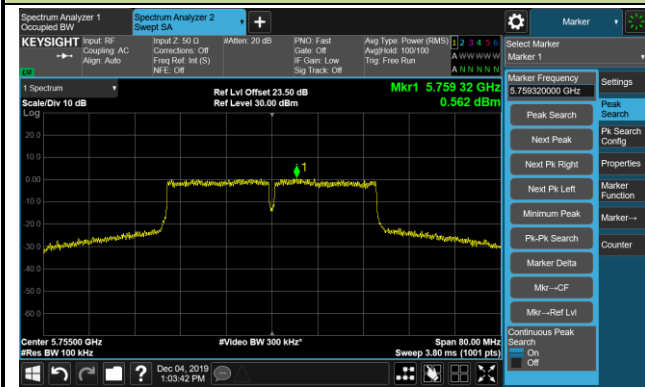


Channel 142 (5710MHz)



802.11ac-VHT40 Power Spectral Density - Ant 8 / Ant 8 + 9

Channel 151 (5755MHz)



Channel 159 (5795MHz)

