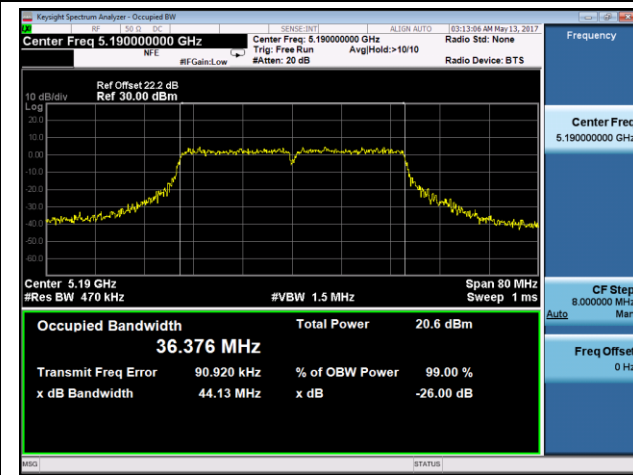
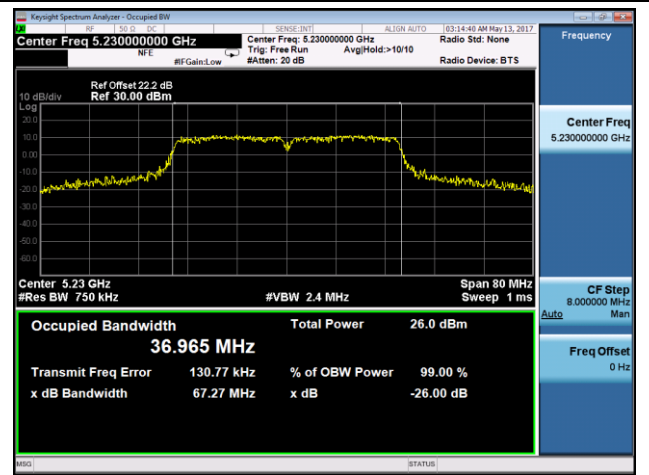


802.11ac-VHT40 26dB Bandwidth & 99% Bandwidth - Chain 0 / Chain 0 + 1 + 2

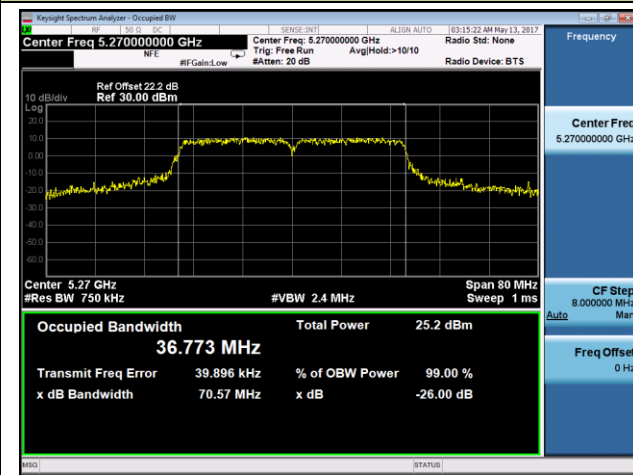
Channel 38 (5190MHz)



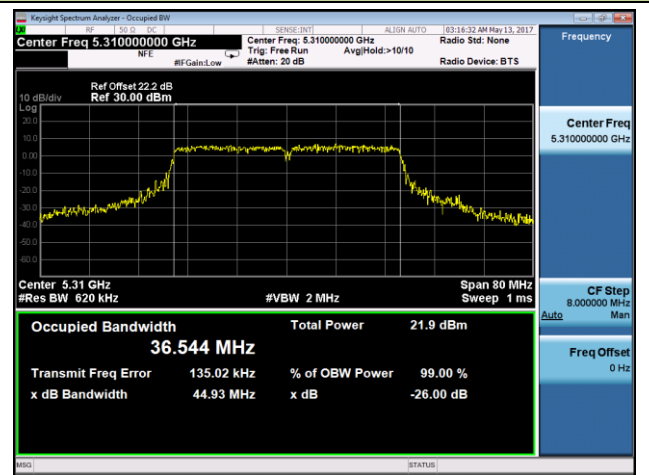
Channel 46 (5230MHz)



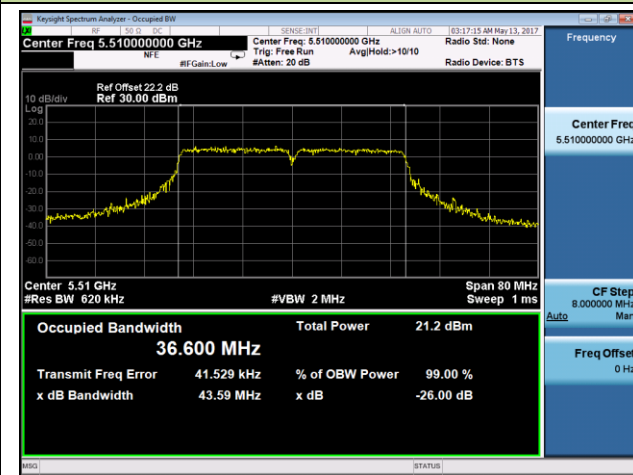
Channel 54 (5270MHz)



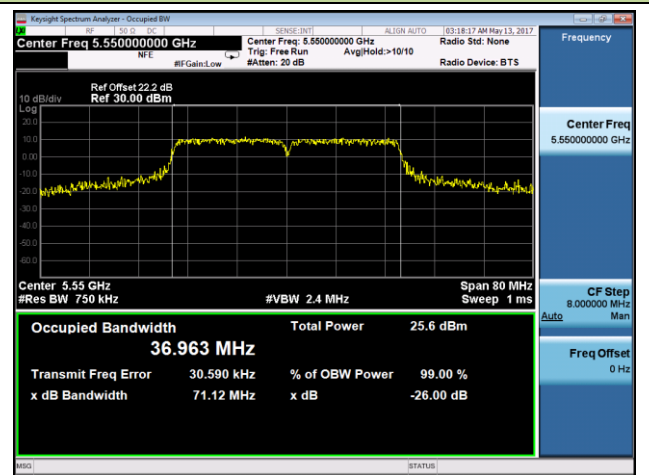
Channel 62 (5310MHz)



Channel 102 (5510MHz)

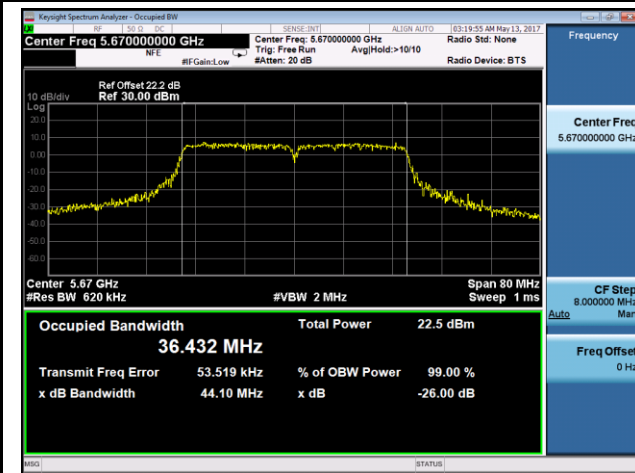


Channel 110 (5550MHz)

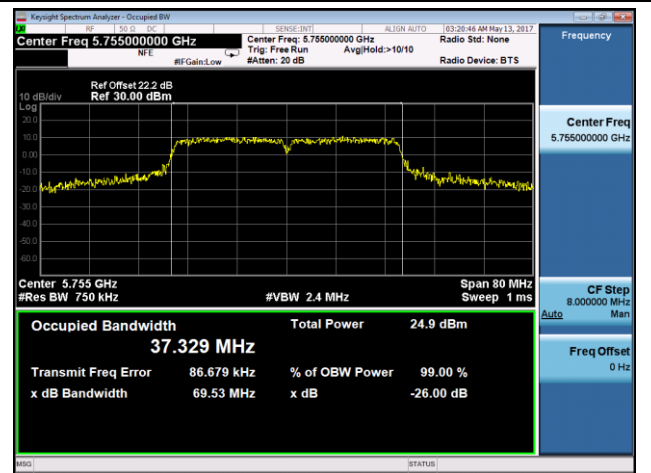


802.11ac-VHT40 26dB Bandwidth & 99% Bandwidth - Chain 0 / Chain 0 + 1 + 2

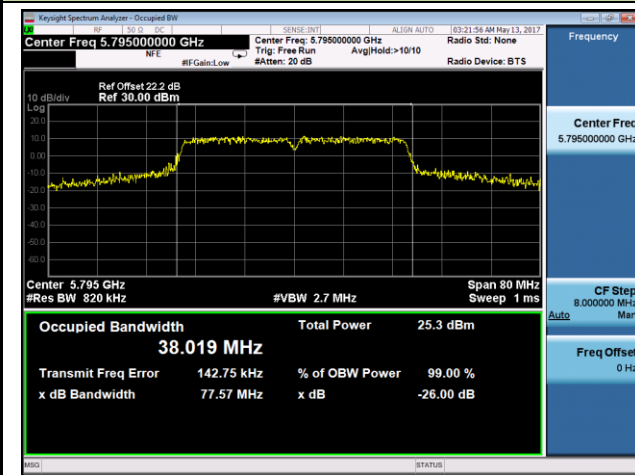
Channel 134 (5670MHz)



Channel 151 (5755MHz)

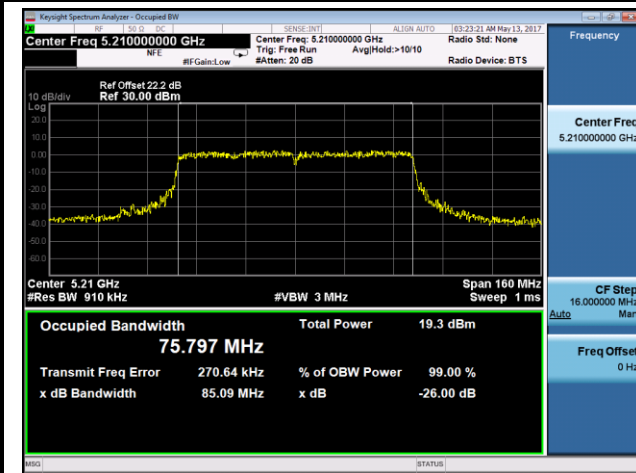


Channel 159 (5795MHz)

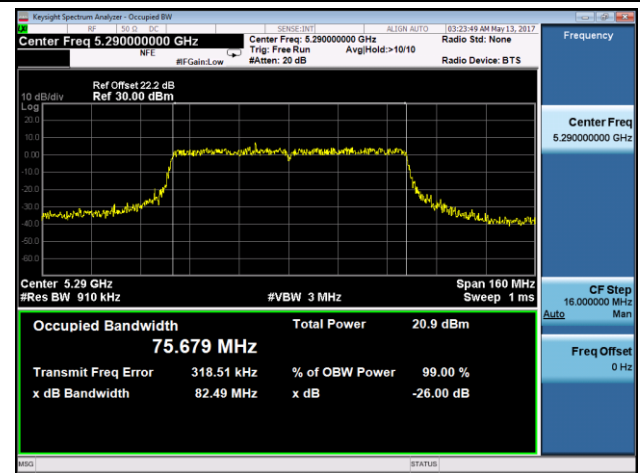


802.11ac-VHT80 26dB Bandwidth & 99% Bandwidth - Chain 0 / Chain 0 + 1 + 2

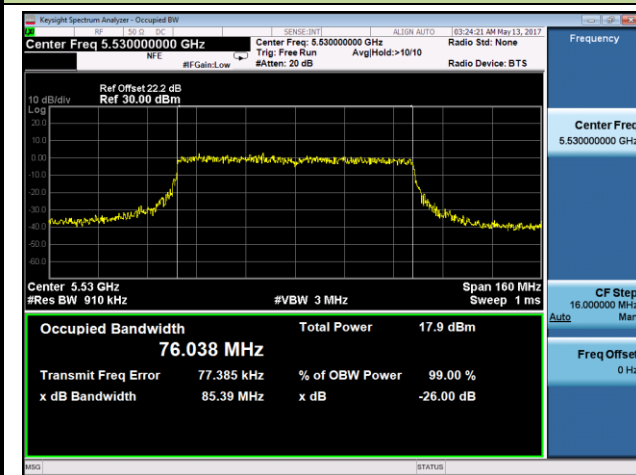
Channel 42 (5210MHz)



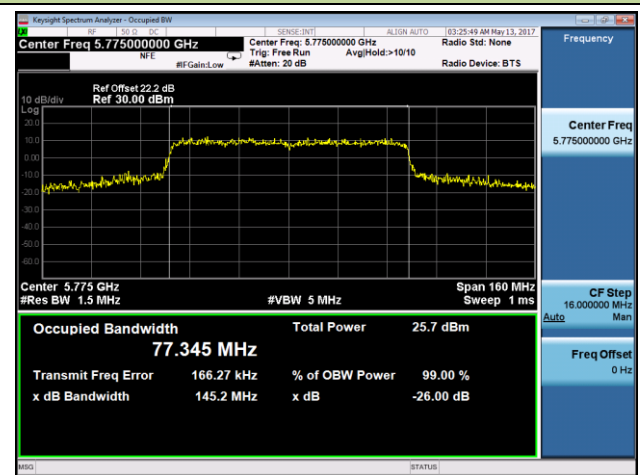
Channel 58 (5290MHz)



Channel 106 (5530MHz)



Channel 155 (5775MHz)



7.3. 6dB Bandwidth Measurement

7.3.1. Test Limit

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

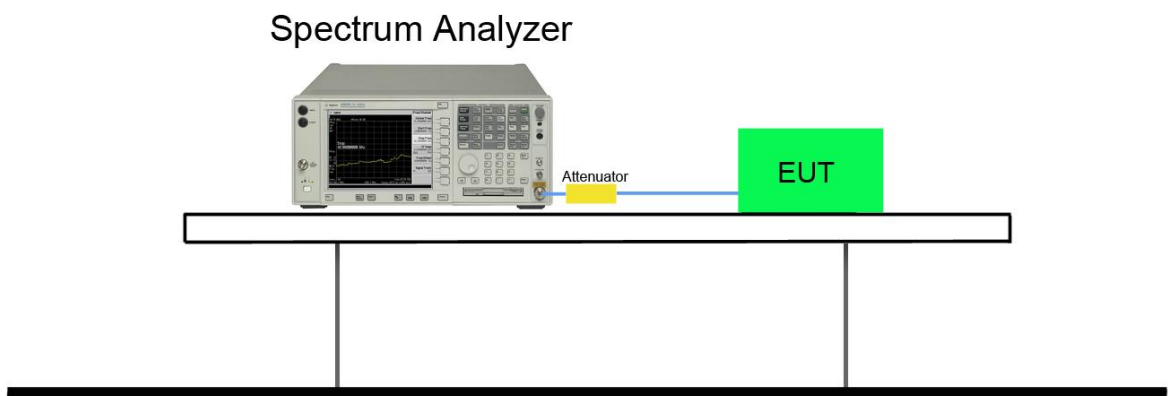
7.3.2. Test Procedure used

KDB 789033 D02v01r04 - Section C.2

7.3.3. Test Setting

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

7.3.4. Test Setup



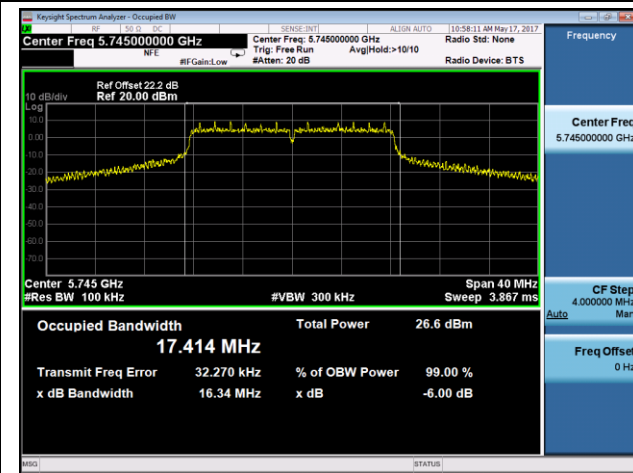
7.3.5. Test Result

Product	AC1750 Wi-Fi Range Extender	Temperature	25°C
Test Engineer	Kevin Ker	Relative Humidity	52%
Test Site	SR1	Test Date	2017/05/17

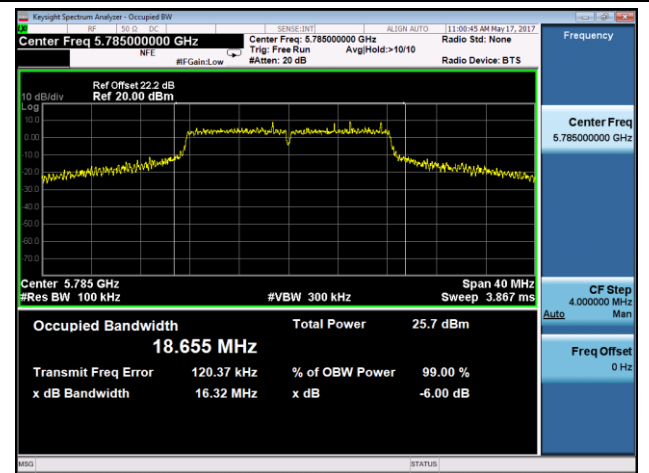
Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Chain 0 / Chain 0 + 1 + 2						
802.11a	6Mbps	149	5745	16.34	≥ 0.5	Pass
802.11a	6Mbps	157	5785	16.32	≥ 0.5	Pass
802.11a	6Mbps	165	5825	16.27	≥ 0.5	Pass
802.11n-HT20	MCS0	149	5745	16.76	≥ 0.5	Pass
802.11n-HT20	MCS0	157	5785	16.95	≥ 0.5	Pass
802.11n-HT20	MCS0	165	5825	17.55	≥ 0.5	Pass
802.11n-HT40	MCS0	151	5755	36.28	≥ 0.5	Pass
802.11n-HT40	MCS0	159	5795	36.35	≥ 0.5	Pass
802.11ac-VHT20	MCS0	149	5745	17.55	≥ 0.5	Pass
802.11ac-VHT20	MCS0	157	5785	16.35	≥ 0.5	Pass
802.11ac-VHT20	MCS0	165	5825	16.93	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	35.73	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	35.93	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	75.10	≥ 0.5	Pass

802.11a 6dB Bandwidth - Chain 0 / Chain 0 + 1 + 2

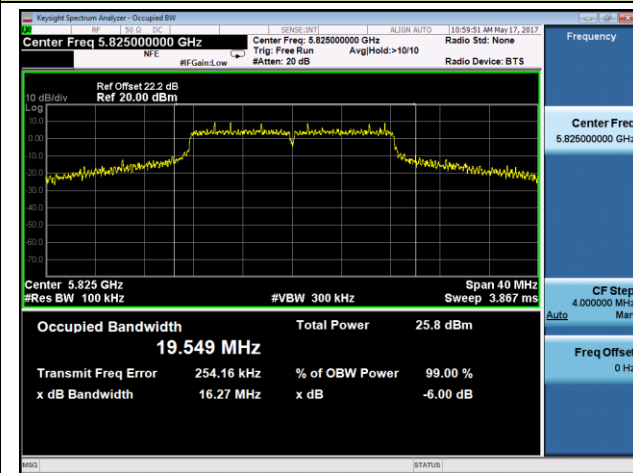
Channel 149 (5745MHz)



Channel 157 (5785MHz)

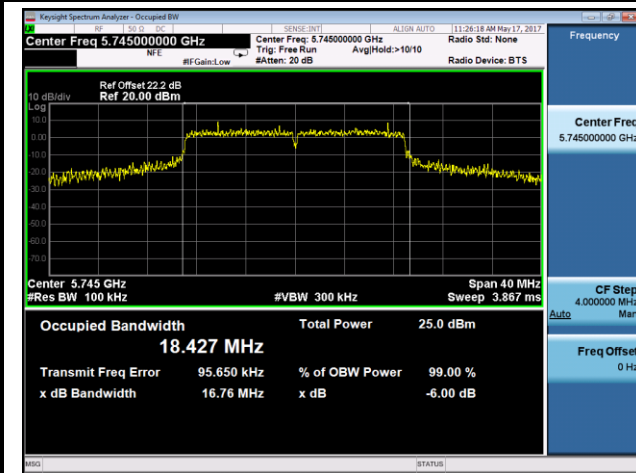


Channel 165 (5825MHz)

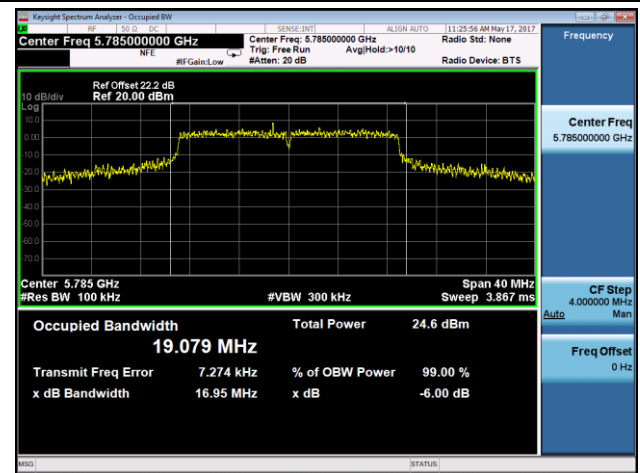


802.11n-HT20 6dB Bandwidth - Chain 0 / Chain 0 + 1 + 2

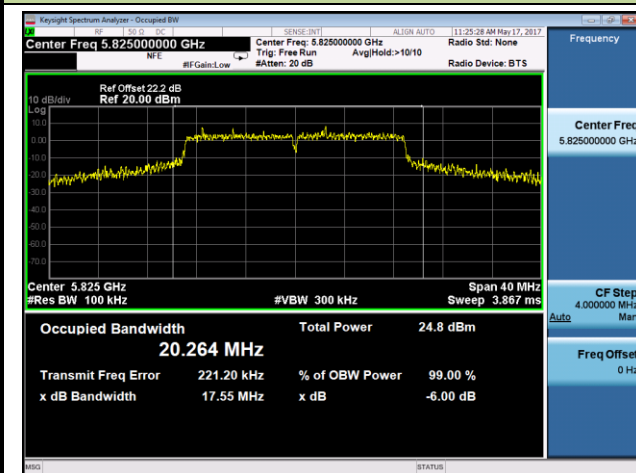
Channel 149 (5745MHz)



Channel 157 (5785MHz)

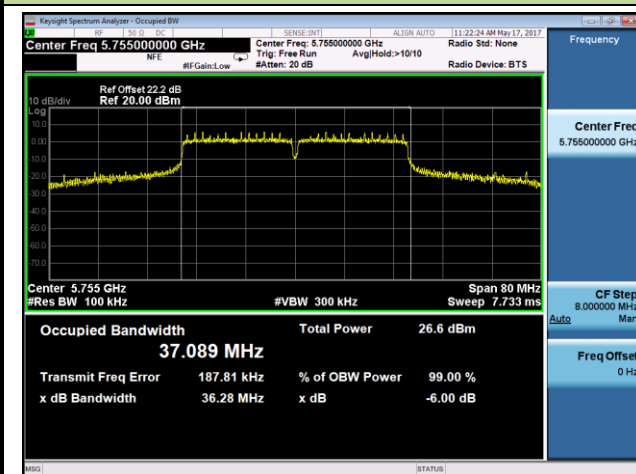


Channel 165 (5825MHz)

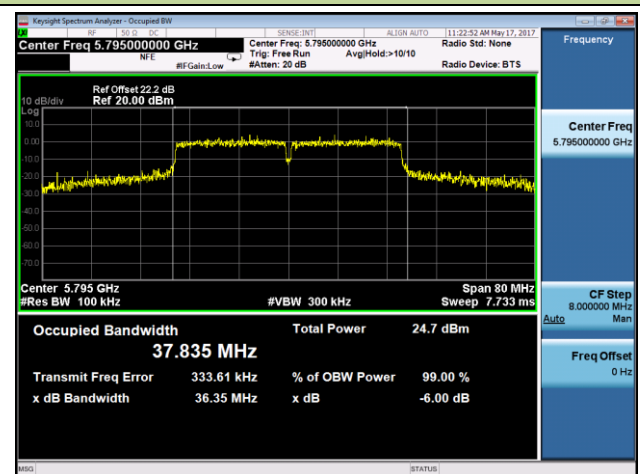


802.11n-HT40 6dB Bandwidth - Chain 0 / Chain 0 + 1 + 2

Channel 151 (5755MHz)

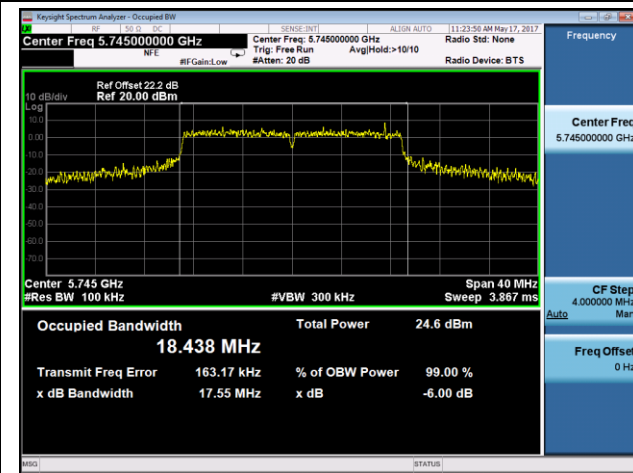


Channel 159 (5795MHz)

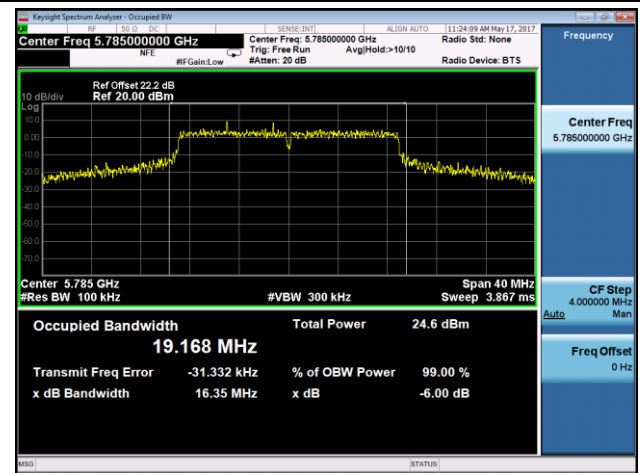


802.11ac-VHT20 6dB Bandwidth - Chain 0 / Chain 0 + 1 + 2

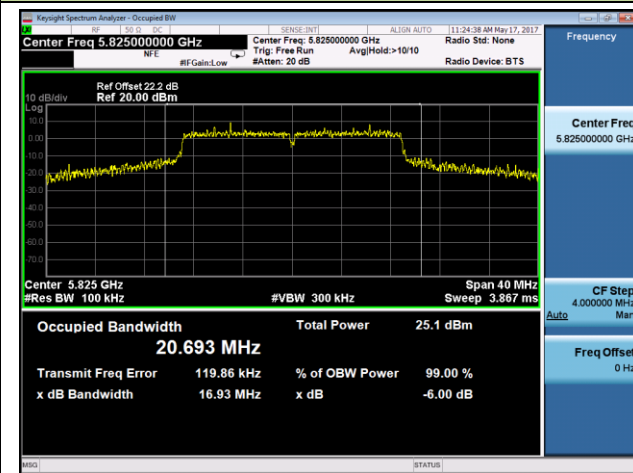
Channel 149 (5745MHz)



Channel 157 (5785MHz)

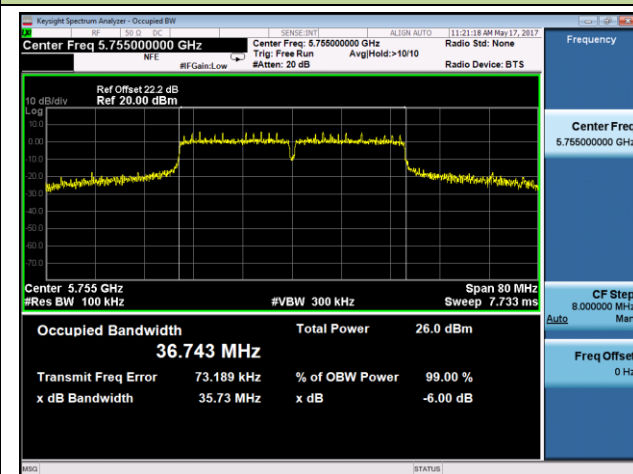


Channel 165 (5825MHz)

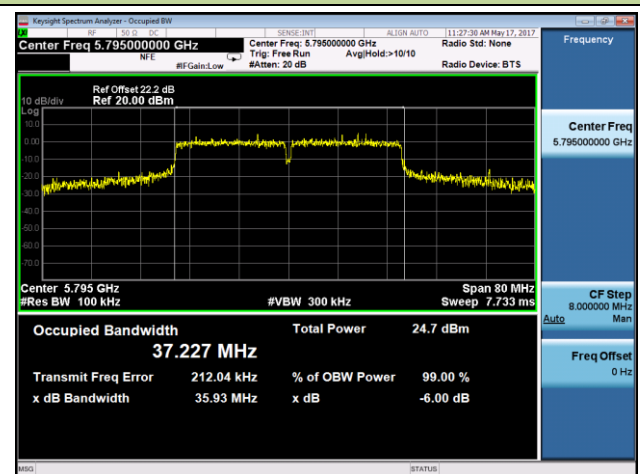


802.11ac-VHT40 6dB Bandwidth - Chain 0 / Chain 0 + 1 + 2

Channel 151 (5755MHz)



Channel 159 (5795MHz)



802.11ac-VHT80 6dB Bandwidth - Chain 0 / Chain 0 + 1 + 2

Channel 155 (5775MHz)



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 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.

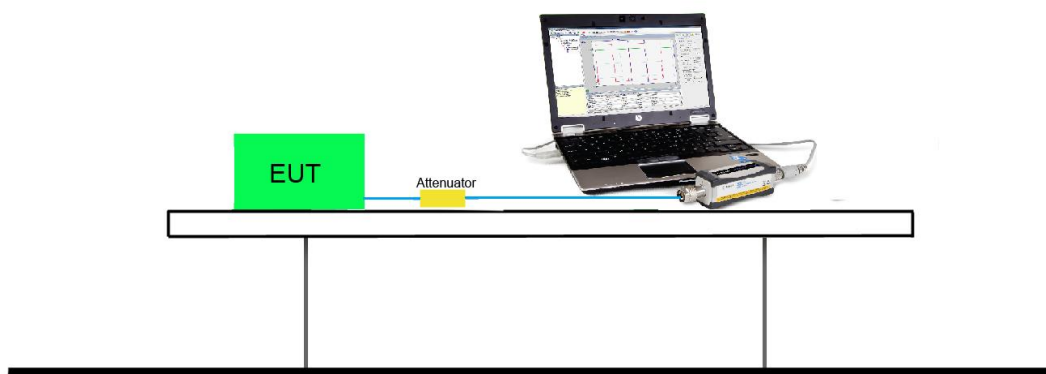
7.4.2. Test Procedure Used

KDB 789033 D02v01r04 - 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. The trace was averaged over 100 traces to obtain the final measured average power.

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.

For Chain 0 / Chain 0 + 1 + 2 port:

Test Mode	Bandwidth	Channel	Frequency (MHz)	Data Rate/ MCS	Average Power (dBm)
802.11a	20	36	5180	6Mbps	15.85
				24Mbps	15.67
				54Mbps	15.43
802.11n	20	36	5180	MCS0	15.12
				MCS3	14.89
				MCS7	14.66
802.11n	40	38	5190	MCS0	14.48
				MCS3	14.23
				MCS7	14.02
802.11ac	20	36	5180	MCS0	15.06
				MCS4	14.87
				MCS8	14.65
802.11ac	40	38	5190	MCS0	14.74
				MCS4	14.34
				MCS9	14.04
802.11ac	80	42	5210	MCS0	12.93
				MCS4	12.67
				MCS9	12.34



Product	AC1750 Wi-Fi Range Extender	Temperature	25°C
Test Engineer	Kevin Ker	Relative Humidity	50%
Test Site	SR1	Test Date	2017/04/26

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Chain 0 Average Power (dBm)	Chain 1 Average Power (dBm)	Chain 2 Average Power (dBm)	Total Average Power (dBm)	Power Limit (dBm)	Result
11a	6Mbps	36	5180	15.85	16.10	16.20	20.82	≤ 30.00	Pass
11a	6Mbps	40	5200	21.05	21.47	21.38	26.07	≤ 30.00	Pass
11a	6Mbps	48	5240	21.02	21.15	20.66	25.72	≤ 30.00	Pass
11a	6Mbps	52	5260	16.19	16.16	16.11	20.92	≤ 23.98	Pass
11a	6Mbps	60	5300	16.35	16.30	16.06	21.01	≤ 23.98	Pass
11a	6Mbps	64	5320	16.11	16.31	15.92	20.89	≤ 23.98	Pass
11a	6Mbps	100	5500	15.83	15.49	15.22	20.29	≤ 23.98	Pass
11a	6Mbps	116	5580	16.03	15.09	15.27	20.25	≤ 23.98	Pass
11a	6Mbps	140	5700	16.59	16.47	16.51	21.29	≤ 23.98	Pass
11a	6Mbps	149	5745	19.04	19.18	19.03	23.86	≤ 30.00	Pass
11a	6Mbps	157	5785	19.51	19.14	19.12	24.03	≤ 30.00	Pass
11a	6Mbps	165	5825	19.46	19.14	18.92	23.95	≤ 30.00	Pass
11n-HT20	MCS0	36	5180	15.12	15.11	14.95	19.83	≤ 30.00	Pass
11n-HT20	MCS0	40	5200	21.11	21.65	21.12	26.07	≤ 30.00	Pass
11n-HT20	MCS0	48	5240	20.85	21.28	20.91	25.79	≤ 30.00	Pass
11n-HT20	MCS0	52	5260	15.80	15.82	16.16	20.70	≤ 23.98	Pass
11n-HT20	MCS0	60	5300	16.53	16.68	16.62	21.38	≤ 23.98	Pass
11n-HT20	MCS0	64	5320	15.80	16.14	15.84	20.70	≤ 23.98	Pass
11n-HT20	MCS0	100	5500	15.77	15.58	15.34	20.34	≤ 23.98	Pass
11n-HT20	MCS0	116	5580	15.81	14.53	15.67	20.14	≤ 23.98	Pass
11n-HT20	MCS0	140	5700	16.04	15.93	15.81	20.70	≤ 23.98	Pass
11n-HT20	MCS0	149	5745	19.38	19.14	18.73	23.86	≤ 30.00	Pass
11n-HT20	MCS0	157	5785	19.39	19.11	18.97	23.93	≤ 30.00	Pass
11n-HT20	MCS0	165	5825	19.35	19.15	18.79	23.87	≤ 30.00	Pass

Note: Total Average Power (dBm) = $10 \cdot \log \{ 10^{(\text{Chain 0 Average Power} / 10)} + 10^{(\text{Chain 1 Average Power} / 10)} + 10^{(\text{Chain 2 Average Power} / 10)} \}$.



Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Chain 0 Average Power (dBm)	Chain 1 Average Power (dBm)	Chain 2 Average Power (dBm)	Total Average Power (dBm)	Power Limit (dBm)	Result
11n-HT40	MCS0	38	5190	14.48	14.55	14.04	19.13	≤ 30.00	Pass
11n-HT40	MCS0	46	5230	20.28	20.24	18.76	24.59	≤ 30.00	Pass
11n-HT40	MCS0	54	5270	19.04	18.91	18.22	23.51	≤ 23.98	Pass
11n-HT40	MCS0	62	5310	16.16	16.13	15.70	20.77	≤ 23.98	Pass
11n-HT40	MCS0	102	5510	13.78	13.71	13.19	18.34	≤ 23.98	Pass
11n-HT40	MCS0	110	5550	18.96	19.04	18.88	23.73	≤ 23.98	Pass
11n-HT40	MCS0	134	5670	17.08	17.07	16.93	21.80	≤ 23.98	Pass
11n-HT40	MCS0	151	5755	19.23	19.04	18.76	23.79	≤ 30.00	Pass
11n-HT40	MCS0	159	5795	19.26	18.95	18.71	23.75	≤ 30.00	Pass
11ac-VHT20	MCS0	36	5180	15.06	15.35	14.81	19.85	≤ 30.00	Pass
11ac-VHT20	MCS0	40	5200	20.55	21.23	20.61	25.58	≤ 30.00	Pass
11ac-VHT20	MCS0	48	5240	19.86	20.23	20.42	24.95	≤ 30.00	Pass
11ac-VHT20	MCS0	52	5260	16.23	16.42	15.72	20.90	≤ 23.98	Pass
11ac-VHT20	MCS0	60	5300	16.05	16.31	15.74	20.81	≤ 23.98	Pass
11ac-VHT20	MCS0	64	5320	15.99	16.32	15.88	20.84	≤ 23.98	Pass
11ac-VHT20	MCS0	100	5500	14.38	14.81	14.43	19.32	≤ 23.98	Pass
11ac-VHT20	MCS0	116	5580	15.53	15.11	15.06	20.01	≤ 23.98	Pass
11ac-VHT20	MCS0	140	5700	16.72	16.41	16.23	21.23	≤ 23.98	Pass
11ac-VHT20	MCS0	149	5745	19.34	19.16	18.91	23.91	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	19.32	19.17	18.95	23.92	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	19.31	19.10	18.80	23.85	≤ 30.00	Pass
11ac-VHT40	MCS0	38	5190	14.74	14.83	14.28	19.39	≤ 30.00	Pass
11ac-VHT40	MCS0	46	5230	19.77	19.62	19.16	24.30	≤ 30.00	Pass
11ac-VHT40	MCS0	54	5270	19.19	19.14	18.67	23.78	≤ 23.98	Pass
11ac-VHT40	MCS0	62	5310	16.33	16.66	16.05	21.13	≤ 23.98	Pass
11ac-VHT40	MCS0	102	5510	13.97	13.95	13.29	18.52	≤ 23.98	Pass
11ac-VHT40	MCS0	110	5550	19.16	18.96	18.78	23.74	≤ 23.98	Pass
11ac-VHT40	MCS0	134	5670	17.41	17.47	17.16	22.12	≤ 23.98	Pass
11ac-VHT40	MCS0	151	5755	19.21	18.99	18.69	23.74	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	19.19	19.04	18.86	23.80	≤ 30.00	Pass

Note: Total Average Power (dBm) = $10 \cdot \log \{ 10^{(\text{Chain 0 Average Power} / 10)} + 10^{(\text{Chain 1 Average Power} / 10)} + 10^{(\text{Chain 2 Average Power} / 10)} \}$.

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Chain 0 Average Power (dBm)	Chain 1 Average Power (dBm)	Chain 2 Average Power (dBm)	Total Average Power (dBm)	Power Limit (dBm)	Result
11ac-VHT80	MCS0	42	5210	12.93	13.18	12.50	17.65	≤ 30.00	Pass
11ac-VHT80	MCS0	58	5290	14.02	13.65	13.59	18.53	≤ 30.00	Pass
11ac-VHT80	MCS0	106	5530	10.31	10.43	10.17	15.08	≤ 30.00	Pass
11ac-VHT80	MCS0	155	5775	19.03	18.74	18.52	23.54	≤ 30.00	Pass

Note: Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Chain 0 Average Power} / 10)} + 10^{(\text{Chain 1 Average Power} / 10)} + 10^{(\text{Chain 2 Average Power} / 10)}\}$.

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.

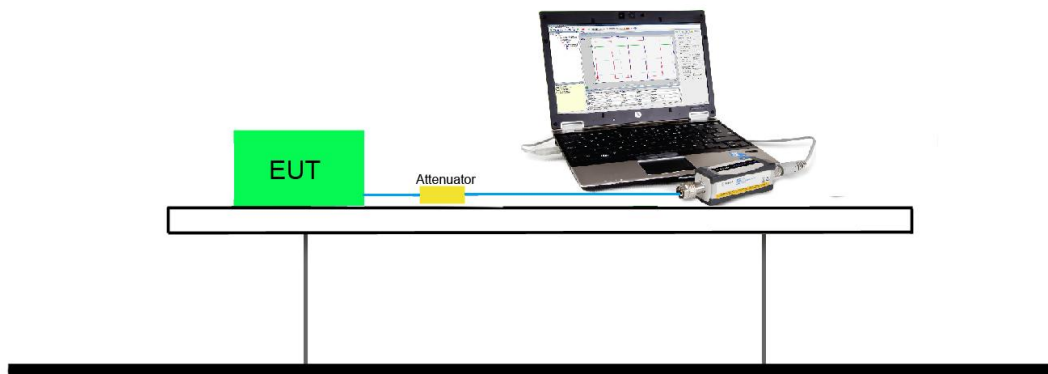
7.5.2. Test Procedure Used

KDB 789033 D02v01r04 - 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

Product	AC1750 Wi-Fi Range Extender	Temperature	25°C
Test Engineer	Kevin Ker	Relative Humidity	50%
Test Site	SR1	Test Date	2017/04/26

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Chain 0 Average Power (dBm)	Chain 1 Average Power (dBm)	Chain 2 Average Power (dBm)	Total E.I.R.P (dBm)	TPC Power Limit (dBm)	Result
11a	6Mbps	52	5260	9.91	10.04	9.05	16.96	≤ 24.00	Pass
11a	6Mbps	60	5300	9.89	9.35	9.13	16.74	≤ 24.00	Pass
11a	6Mbps	64	5320	9.85	9.71	8.73	16.73	≤ 24.00	Pass
11a	6Mbps	100	5500	8.20	8.93	8.13	15.71	≤ 24.00	Pass
11a	6Mbps	116	5580	8.40	8.70	9.41	16.13	≤ 24.00	Pass
11a	6Mbps	140	5700	9.64	8.57	10.38	16.86	≤ 24.00	Pass
11n-HT20	MCS0	52	5260	9.08	9.62	8.57	16.38	≤ 24.00	Pass
11n-HT20	MCS0	60	5300	10.30	10.13	9.94	17.40	≤ 24.00	Pass
11n-HT20	MCS0	64	5320	9.52	9.72	9.26	16.78	≤ 24.00	Pass
11n-HT20	MCS0	100	5500	9.73	9.33	9.02	16.64	≤ 24.00	Pass
11n-HT20	MCS0	116	5580	9.73	9.59	8.35	16.54	≤ 24.00	Pass
11n-HT20	MCS0	140	5700	9.19	9.42	8.62	16.36	≤ 24.00	Pass
11n-HT40	MCS0	54	5270	12.92	11.94	10.98	19.29	≤ 24.00	Pass
11n-HT40	MCS0	62	5310	10.14	9.62	9.71	17.10	≤ 24.00	Pass
11n-HT40	MCS0	102	5510	7.74	7.61	6.62	14.62	≤ 24.00	Pass
11n-HT40	MCS0	110	5550	13.48	14.20	12.82	20.81	≤ 24.00	Pass
11n-HT40	MCS0	134	5670	10.42	10.14	9.72	17.37	≤ 24.00	Pass
11ac-VHT20	MCS0	52	5260	9.81	10.22	9.03	16.99	≤ 24.00	Pass
11ac-VHT20	MCS0	60	5300	9.67	9.82	9.05	16.80	≤ 24.00	Pass
11ac-VHT20	MCS0	64	5320	9.23	9.97	9.12	16.73	≤ 24.00	Pass
11ac-VHT20	MCS0	100	5500	9.14	8.77	8.00	15.93	≤ 24.00	Pass
11ac-VHT20	MCS0	116	5580	9.70	9.43	8.59	16.54	≤ 24.00	Pass
11ac-VHT20	MCS0	140	5700	9.92	10.11	9.15	17.02	≤ 24.00	Pass

Note: Total E.I.R.P (dBm) = $10 \cdot \log \{ 10^{(\text{Chain 0 Average Power} / 10)} + 10^{(\text{Chain 1 Average Power} / 10)} + 10^{(\text{Chain 2 Average Power} / 10)} \} + \text{Antenna Gain (dBi)}$.

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Chain 0 Average Power (dBm)	Chain 1 Average Power (dBm)	Chain 2 Average Power (dBm)	Total Average Power (dBm)	Power Limit (dBm)	Result
11ac-VHT40	MCS0	54	5270	13.28	13.64	12.72	20.50	≤ 24.00	Pass
11ac-VHT40	MCS0	62	5310	10.17	10.26	9.64	17.30	≤ 24.00	Pass
11ac-VHT40	MCS0	102	5510	7.76	8.10	7.27	14.99	≤ 24.00	Pass
11ac-VHT40	MCS0	110	5550	13.91	13.88	13.27	20.97	≤ 24.00	Pass
11ac-VHT40	MCS0	134	5670	10.73	10.70	10.74	17.99	≤ 24.00	Pass
11ac-VHT80	MCS0	58	5290	8.46	8.66	8.00	15.65	≤ 24.00	Pass
11ac-VHT80	MCS0	106	5530	5.24	5.55	5.10	12.57	≤ 24.00	Pass

Note: Total Average Power (dBm) = $10 \cdot \log \left\{ 10^{(\text{Chain 0 Average Power} / 10)} + 10^{(\text{Chain 1 Average Power} / 10)} + 10^{(\text{Chain 2 Average Power} / 10)} \right\}$.

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.

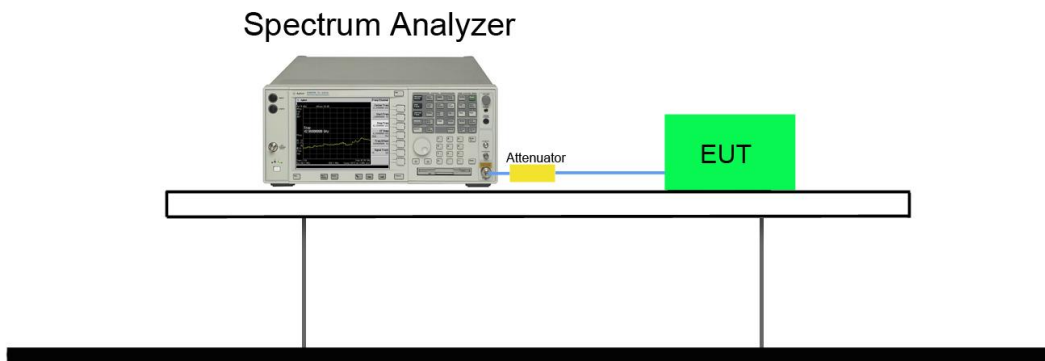
7.6.2. Test Procedure Used

KDB 789033 D02v01r04 - 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,
4. RBW = 100 kHz
5. VBW = 3MHz
6. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
7. Detector = power averaging (Average)
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.
12. When the measurement bandwidth of Maximum PSD is specified in 500 kHz, add a constant factor $10 \cdot \log(500\text{kHz}/100\text{kHz}) = 7$ dB to the measured result

7.6.4. Test Setup



7.6.5. Test Result

Product	AC1750 Wi-Fi Range Extender	Temperature	25°C
Test Engineer	Kevin Ker	Relative Humidity	51%
Test Site	SR1	Test Date	2017/05/12

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Chain 0 PSD (dBm/MHz)	Chain 1 PSD (dBm/MHz)	Chain 2 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11a	6Mbps	36	5180	5.97	6.69	5.60	95.94	11.06	≤ 15.73	Pass
11a	6Mbps	40	5200	9.54	9.13	9.68	95.94	14.41	≤ 15.73	Pass
11a	6Mbps	48	5240	8.57	9.06	8.18	95.94	13.57	≤ 15.73	Pass
11a	6Mbps	52	5260	4.62	4.94	4.30	95.94	9.58	≤ 9.73	Pass
11a	6Mbps	60	5300	4.54	4.91	4.27	95.94	9.53	≤ 9.73	Pass
11a	6Mbps	64	5320	4.39	4.87	4.08	95.94	9.41	≤ 9.73	Pass
11a	6Mbps	100	5500	4.37	3.61	2.82	95.94	8.60	≤ 9.73	Pass
11a	6Mbps	116	5580	4.89	4.57	4.62	95.94	9.65	≤ 9.73	Pass
11a	6Mbps	140	5700	4.33	4.72	4.49	95.94	9.47	≤ 9.73	Pass
11n-HT20	MCS0	36	5180	4.36	4.61	4.08	96.11	9.30	≤ 15.73	Pass
11n-HT20	MCS0	40	5200	9.27	8.76	8.81	96.11	13.90	≤ 15.73	Pass
11n-HT20	MCS0	48	5240	8.32	8.70	8.55	96.11	13.47	≤ 15.73	Pass
11n-HT20	MCS0	52	5260	4.08	4.55	4.03	96.11	9.17	≤ 9.73	Pass
11n-HT20	MCS0	60	5300	4.56	5.20	4.02	96.11	9.56	≤ 9.73	Pass
11n-HT20	MCS0	64	5320	3.94	4.35	3.35	96.11	8.84	≤ 9.73	Pass
11n-HT20	MCS0	100	5500	4.14	3.55	3.65	96.11	8.73	≤ 9.73	Pass
11n-HT20	MCS0	116	5580	4.34	4.34	4.14	96.11	9.22	≤ 9.73	Pass
11n-HT20	MCS0	140	5700	4.60	4.66	4.68	96.11	9.59	≤ 9.73	Pass
11n-HT40	MCS0	38	5190	-0.92	-1.74	-2.09	92.85	3.54	≤ 15.73	Pass
11n-HT40	MCS0	46	5230	5.39	5.37	4.59	92.85	10.23	≤ 15.73	Pass
11n-HT40	MCS0	54	5270	4.26	3.76	3.74	92.85	9.02	≤ 9.73	Pass
11n-HT40	MCS0	62	5310	0.28	0.09	-0.56	92.85	5.04	≤ 9.73	Pass
11n-HT40	MCS0	102	5510	-0.82	-1.68	-1.74	92.85	3.70	≤ 9.73	Pass
11n-HT40	MCS0	110	5550	4.71	4.67	4.34	92.85	9.67	≤ 9.73	Pass
11n-HT40	MCS0	134	5670	2.28	0.74	2.33	92.85	6.94	≤ 9.73	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Chain 0 PSD (dBm/MHz)	Chain 1 PSD (dBm/MHz)	Chain 2 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11ac-VHT20	MCS0	36	5180	3.90	4.55	3.68	96.15	9.00	≤ 15.73	Pass
11ac-VHT20	MCS0	40	5200	8.57	8.60	8.49	96.15	13.50	≤ 15.73	Pass
11ac-VHT20	MCS0	48	5240	8.62	7.76	7.35	96.15	12.88	≤ 15.73	Pass
11ac-VHT20	MCS0	52	5260	4.42	5.13	3.64	96.15	9.38	≤ 9.73	Pass
11ac-VHT20	MCS0	60	5300	4.35	5.16	3.95	96.15	9.46	≤ 9.73	Pass
11ac-VHT20	MCS0	64	5320	4.27	4.99	3.85	96.15	9.34	≤ 9.73	Pass
11ac-VHT20	MCS0	100	5500	4.48	3.87	2.49	96.15	8.63	≤ 9.73	Pass
11ac-VHT20	MCS0	116	5580	4.79	4.99	4.25	96.15	9.63	≤ 9.73	Pass
11ac-VHT20	MCS0	140	5700	5.04	4.75	4.10	96.15	9.59	≤ 9.73	Pass
11ac-VHT40	MCS0	38	5190	0.17	0.69	-0.58	91.96	5.26	≤ 15.73	Pass
11ac-VHT40	MCS0	46	5230	4.78	4.68	4.07	91.96	9.66	≤ 15.73	Pass
11ac-VHT40	MCS0	54	5270	3.38	3.99	3.38	91.96	8.73	≤ 9.73	Pass
11ac-VHT40	MCS0	62	5310	1.79	1.53	0.80	91.96	6.53	≤ 9.73	Pass
11ac-VHT40	MCS0	102	5510	0.80	0.20	-0.04	91.96	5.47	≤ 9.73	Pass
11ac-VHT40	MCS0	110	5550	4.49	4.35	4.02	91.96	9.43	≤ 9.73	Pass
11ac-VHT40	MCS0	134	5670	2.12	3.38	2.62	91.96	7.87	≤ 9.73	Pass
11ac-VHT80	MCS0	42	5210	-5.25	-4.92	-5.21	87.01	0.25	≤ 15.73	Pass
11ac-VHT80	MCS0	58	5290	-3.00	-3.28	-3.45	87.01	2.14	≤ 9.73	Pass
11ac-VHT80	MCS0	106	5530	-6.06	-5.58	-7.64	87.01	-0.97	≤ 9.73	Pass

Note 1: When EUT duty cycle ≥ 98%, the Total PSD (dBm/MHz) = $10 \cdot \log\{10^{(\text{Chain 0 PSD}/10)} + 10^{(\text{Chain 1 PSD}/10)} + 10^{(\text{Chain 2 PSD}/10)}\}$.

Note 2: When EUT duty cycle < 98%, the Total PSD (dBm/MHz) = $10 \cdot \log\{10^{(\text{Chain 0 PSD}/10)} + 10^{(\text{Chain 1 PSD}/10)} + 10^{(\text{Chain 2 PSD}/10)}\} + 10 \cdot \log(1/\text{Duty Cycle})$.

Note 3: For Band 1: PSD Limit = 17 (dBm/MHz) - [Directional Gain (dBi) - 6 (dBi)] = 15.73 (dBm/MHz).

For Band 2 & 3: PSD Limit = 11 (dBm/MHz) - [Directional Gain (dBi) - 6 (dBi)] = 9.73 (dBm/MHz).

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Chain 0 PSD (dBm/MHz)	Chain 1 PSD (dBm/MHz)	Chain 2 PSD (dBm/MHz)	Duty Cycle (%)	Constant Factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
11a	6Mbps	149	5745	-0.53	-1.01	-1.61	95.94	6.99	10.91	≤ 28.73	Pass
11a	6Mbps	157	5785	-1.12	-0.77	-1.43	95.94	6.99	10.84	≤ 28.73	Pass
11a	6Mbps	165	5825	-1.04	-1.20	-1.10	95.94	6.99	10.83	≤ 28.73	Pass
11n-HT20	MCS0	149	5745	-1.33	-1.69	-2.28	96.11	6.99	10.18	≤ 28.73	Pass
11n-HT20	MCS0	157	5785	-1.81	-2.34	-1.70	96.11	6.99	9.99	≤ 28.73	Pass
11n-HT20	MCS0	165	5825	-1.50	-1.56	-2.51	96.11	6.99	10.10	≤ 28.73	Pass
11n-HT40	MCS0	151	5755	-5.15	-5.11	-4.95	92.85	6.99	7.01	≤ 28.73	Pass
11n-HT40	MCS0	159	5795	-5.66	-5.36	-5.61	92.85	6.99	6.54	≤ 28.73	Pass
11ac-VHT20	MCS0	149	5745	-1.61	-1.87	-2.71	96.15	6.99	9.89	≤ 28.73	Pass
11ac-VHT20	MCS0	157	5785	-2.10	-1.94	-1.49	96.15	6.99	10.10	≤ 28.73	Pass
11ac-VHT20	MCS0	165	5825	-1.51	-1.66	-2.18	96.15	6.99	10.16	≤ 28.73	Pass
11ac-VHT40	MCS0	151	5755	-5.38	-5.27	-4.72	91.96	6.99	7.01	≤ 28.73	Pass
11ac-VHT40	MCS0	159	5795	-5.68	-5.51	-5.67	91.96	6.99	6.51	≤ 28.73	Pass
11ac-VHT80	MCS0	155	5775	-8.63	-8.58	-8.64	87.01	6.99	3.75	≤ 28.73	Pass

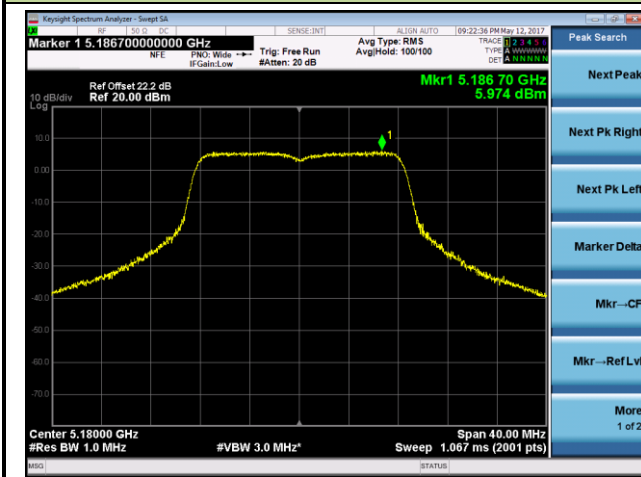
Note 1: When EUT duty cycle ≥ 98%, the Total PSD (dBm/MHz) = $10 \cdot \log\{10^{(\text{Chain 0 PSD}/10)} + 10^{(\text{Chain 1 PSD}/10)} + 10^{(\text{Chain 2 PSD}/10)}\} + \text{Constant Factor}$.

Note 2: When EUT duty cycle < 98%, the Total PSD (dBm/MHz) = $10 \cdot \log\{10^{(\text{Chain 0 PSD}/10)} + 10^{(\text{Chain 1 PSD}/10)} + 10^{(\text{Chain 2 PSD}/10)}\} + 10 \cdot \log(1/\text{Duty Cycle}) + \text{Constant Factor}$.

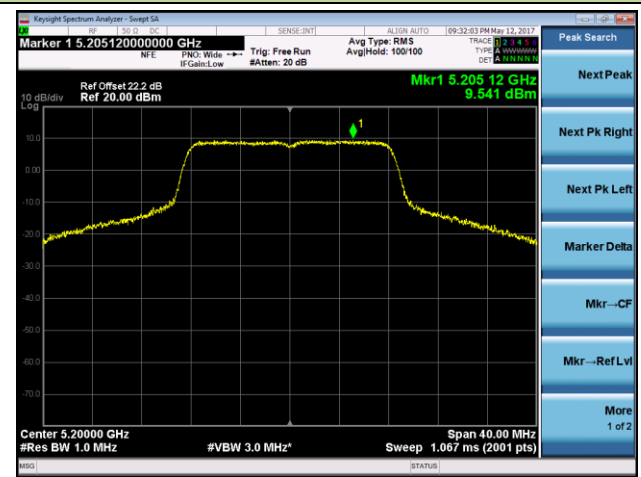
Note 3: PSD Limit = 30 (dBm/MHz) - [Directional Gain (dBi) - 6 (dBi)] = 28.23 (dBm/MHz).

802.11a Power Spectral Density - Chain 0 / Chain 0 + 1 + 2

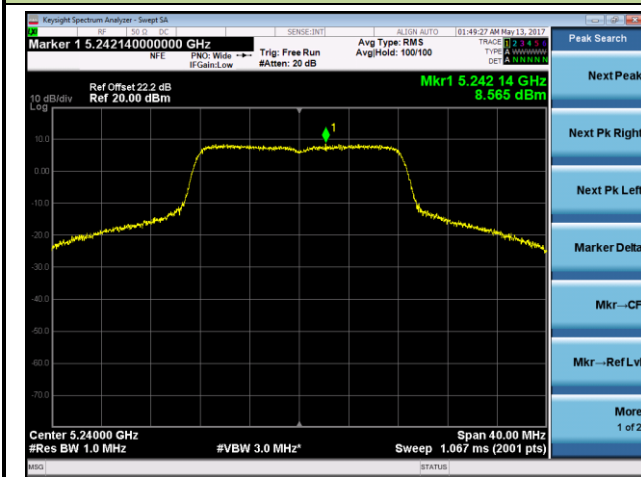
Channel 36 (5180MHz)



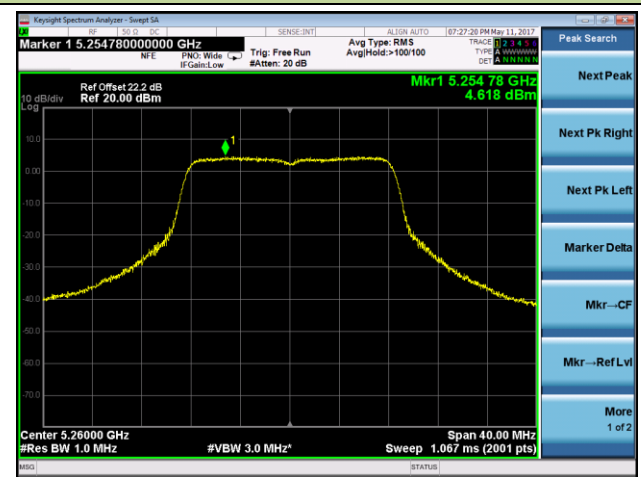
Channel 40 (5200MHz)



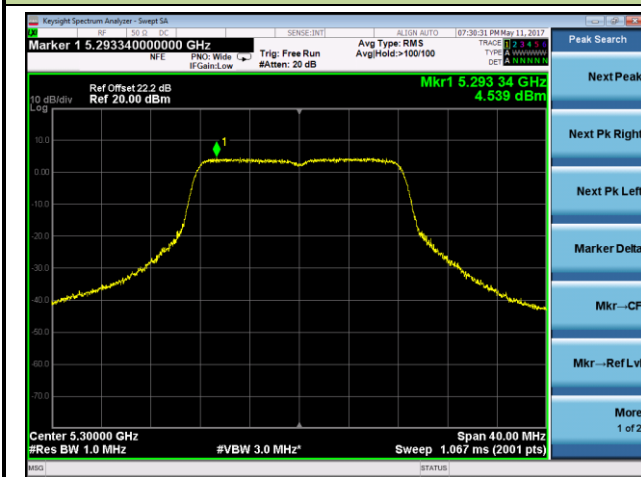
Channel 48 (5240MHz)



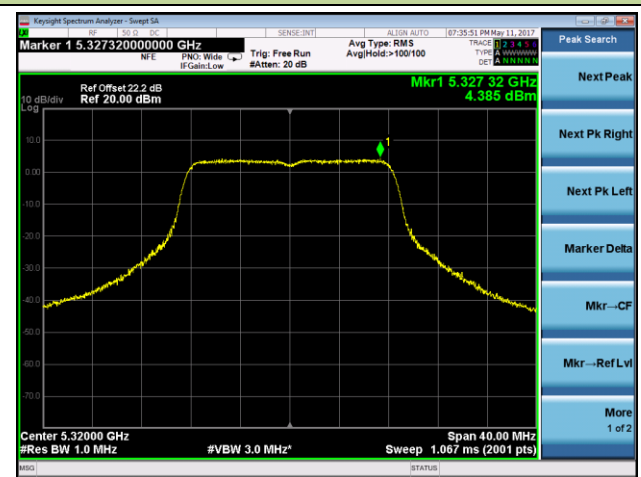
Channel 52 (5260MHz)



Channel 60 (5300MHz)

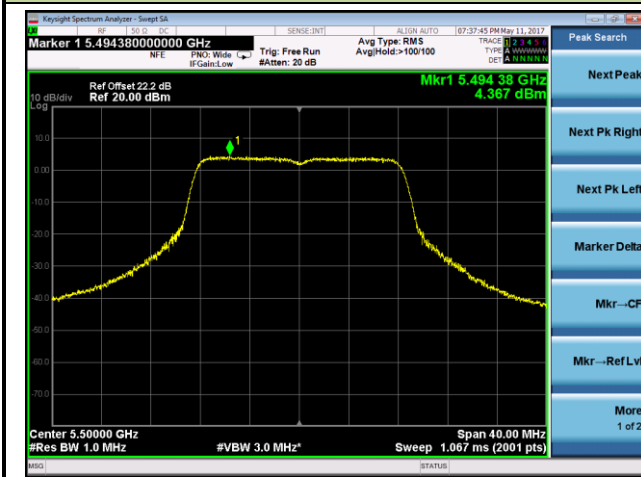


Channel 64 (5320MHz)

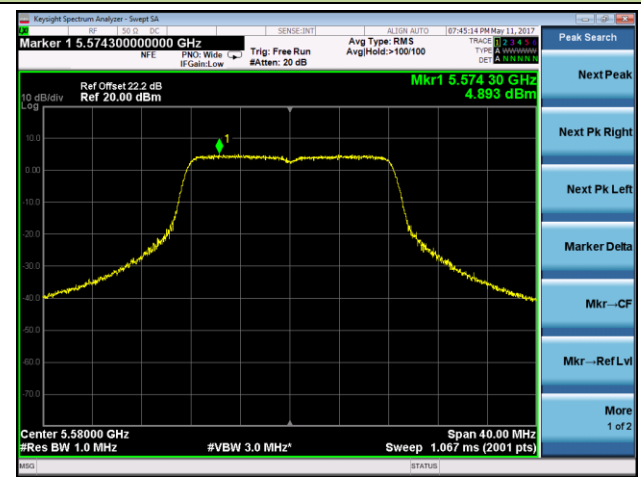


802.11a Power Spectral Density - Chain 0 / Chain 0 + 1 + 2

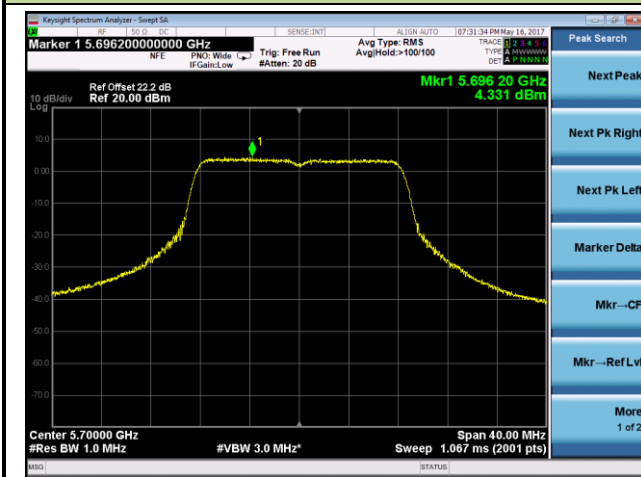
Channel 100 (5500MHz)



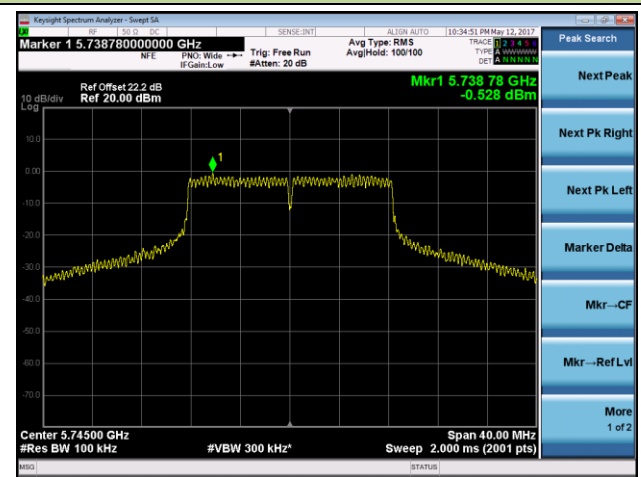
Channel 116 (5580MHz)



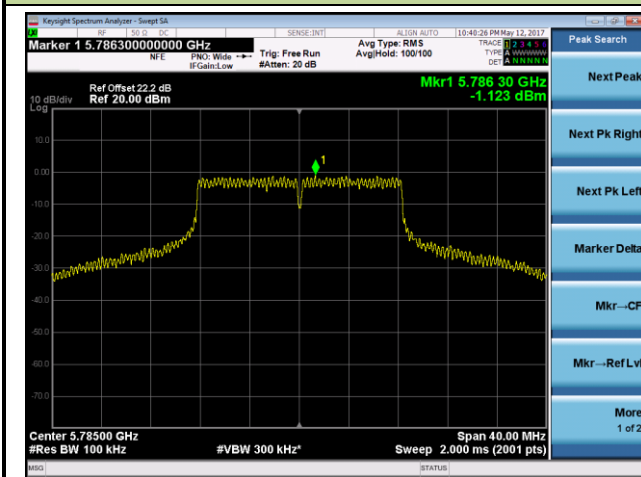
Channel 140 (5700MHz)



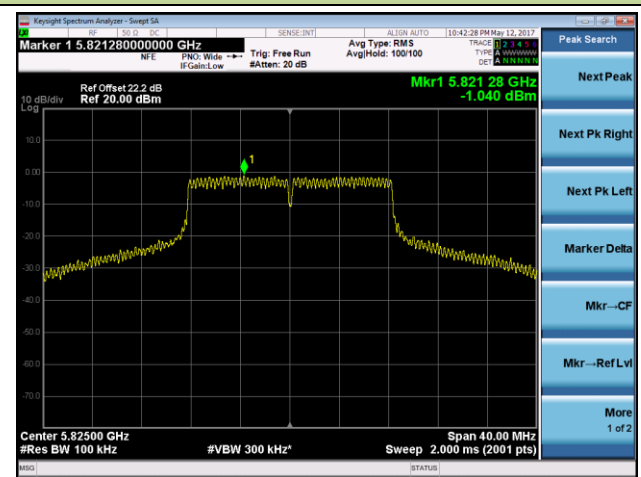
Channel 149 (5745MHz)



Channel 157 (5785MHz)

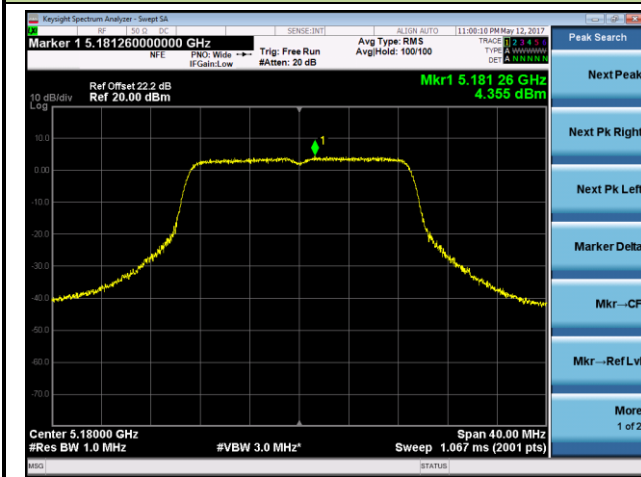


Channel 165 (5825MHz)

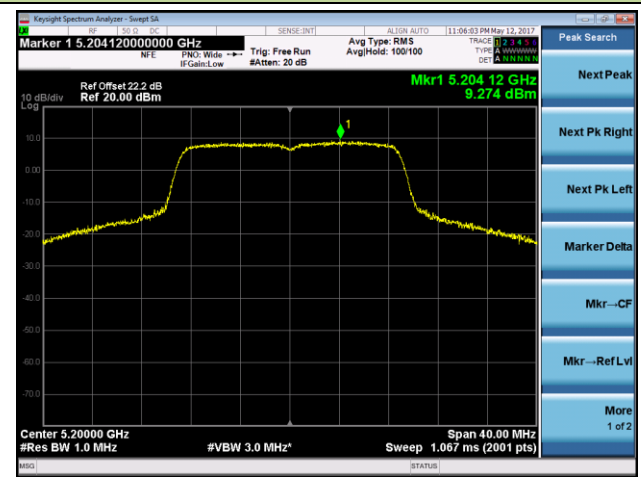


802.11n-HT20 Power Spectral Density - Chain 0 / Chain 0 + 1 + 2

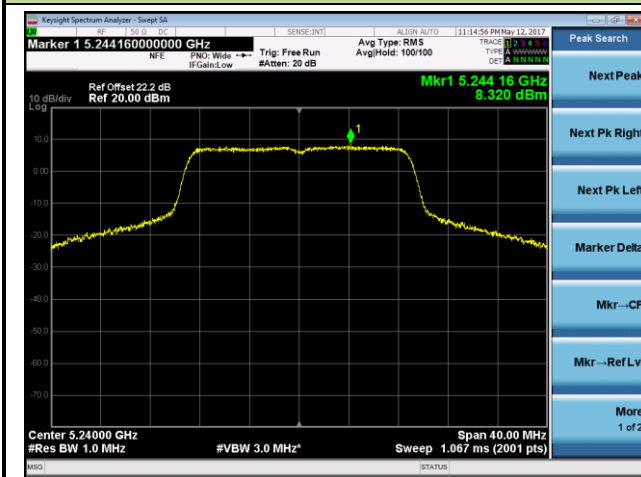
Channel 36 (5180MHz)



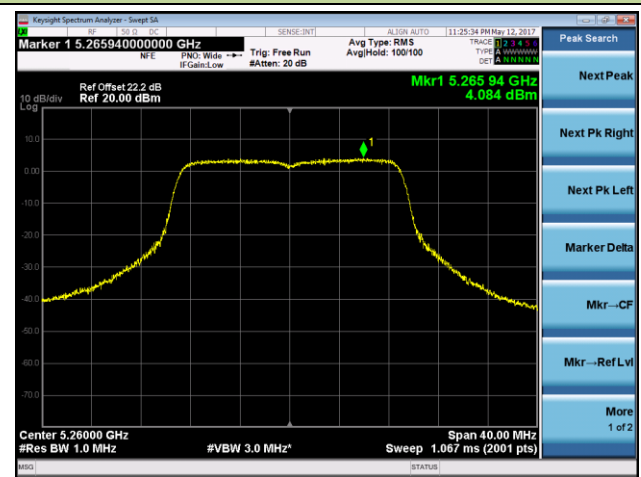
Channel 40 (5200MHz)



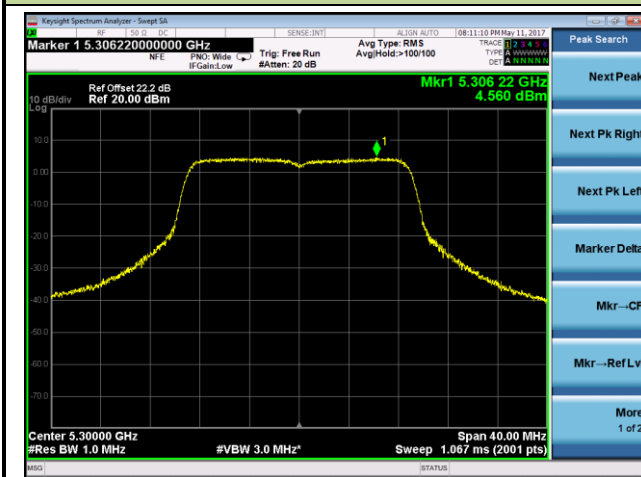
Channel 48 (5240MHz)



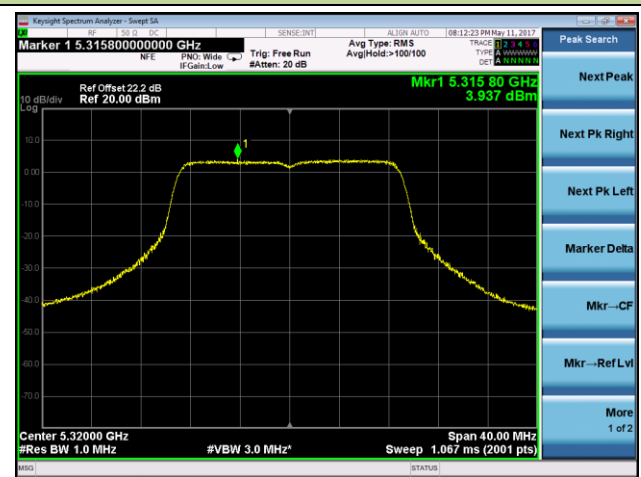
Channel 52 (5260MHz)



Channel 60 (5300MHz)

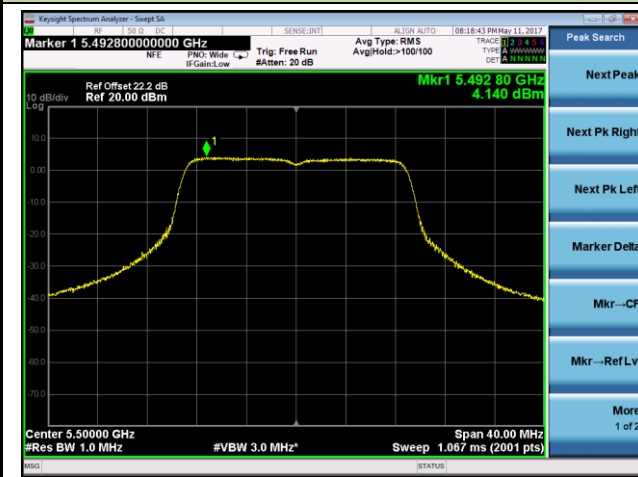


Channel 64 (5320MHz)



802.11n-HT20 Power Spectral Density - Chain 0 / Chain 0 + 1 + 2

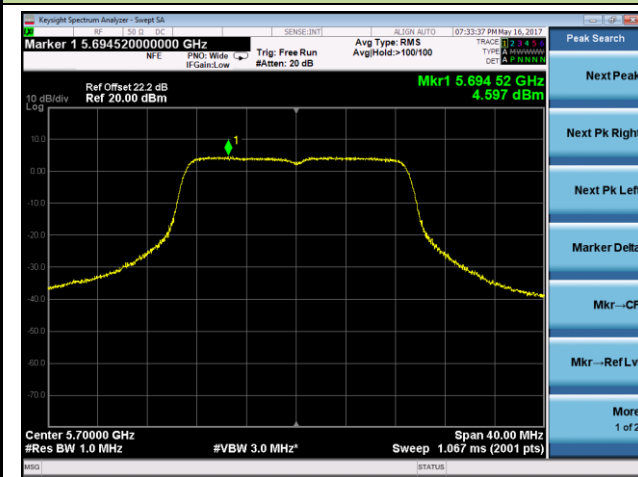
Channel 100 (5500MHz)



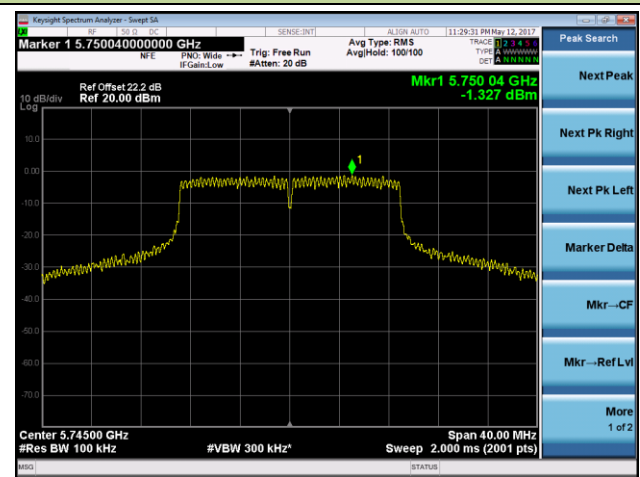
Channel 116 (5580MHz)



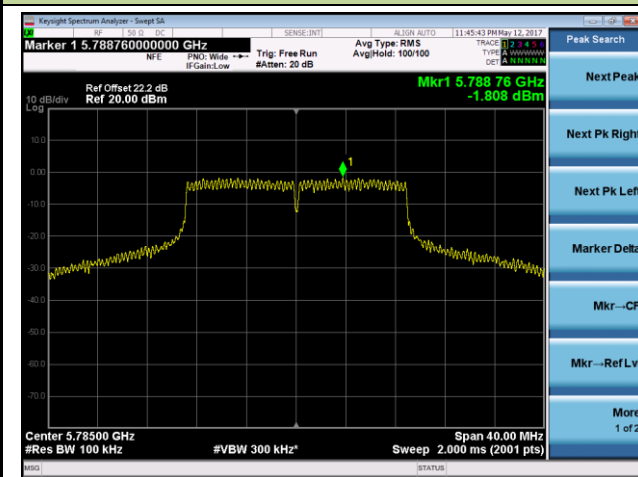
Channel 140 (5700MHz)



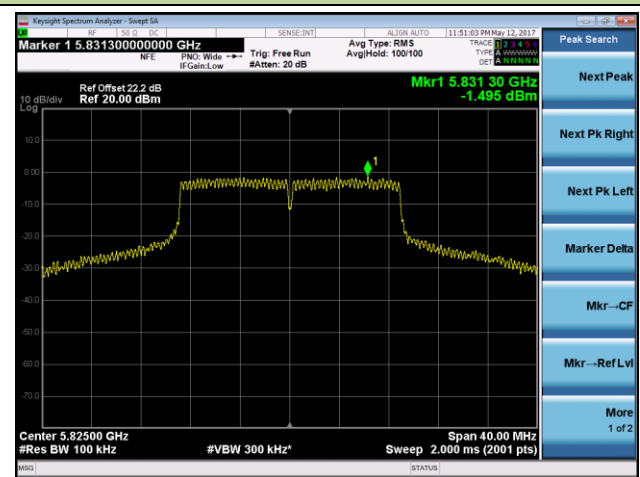
Channel 149 (5745MHz)



Channel 157 (5785MHz)

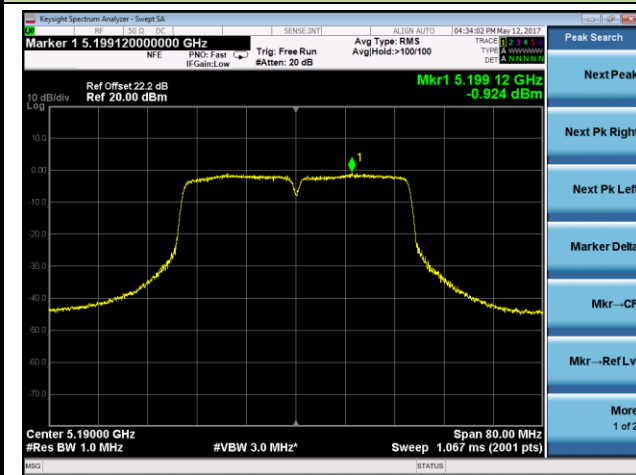


Channel 165 (5825MHz)

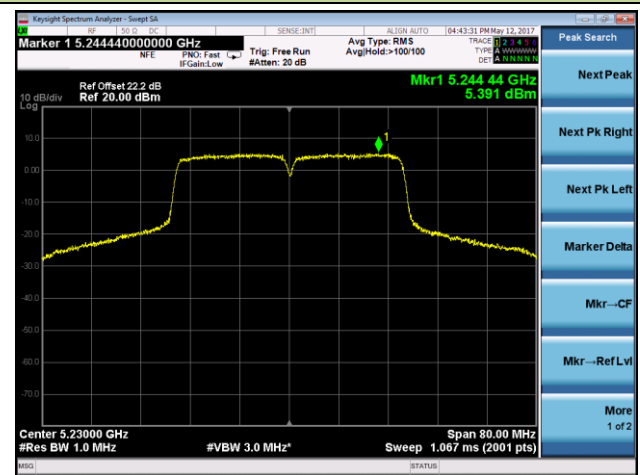


802.11n-HT40 Power Spectral Density - Chain 0 / Chain 0 + 1 + 2

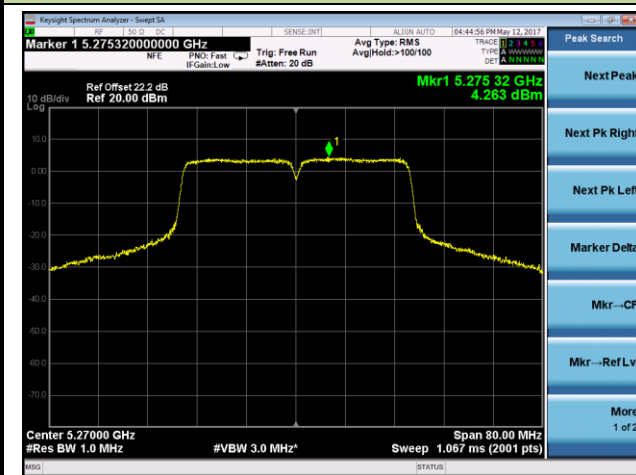
Channel 38 (5190MHz)



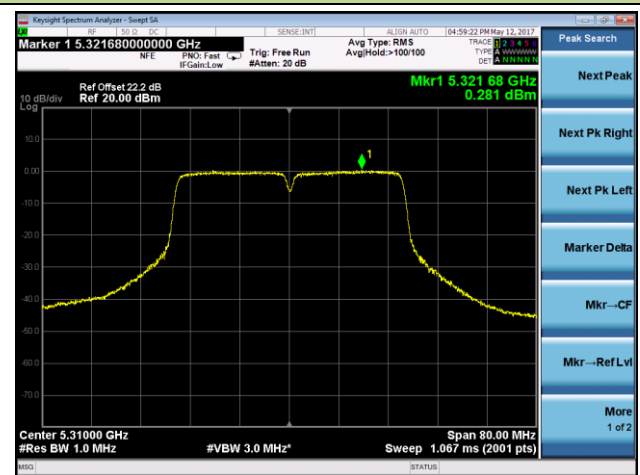
Channel 46 (5230MHz)



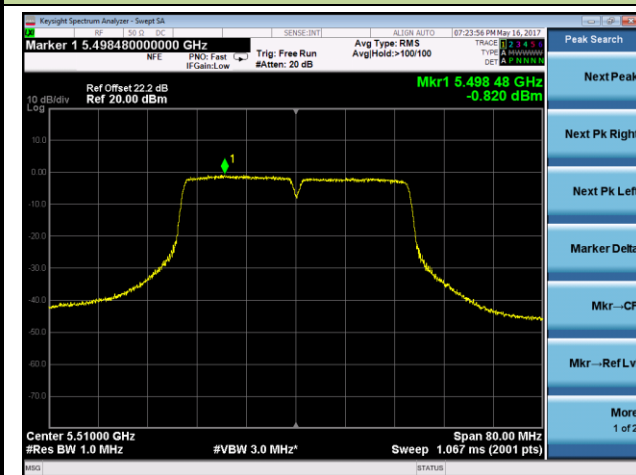
Channel 54 (5270MHz)



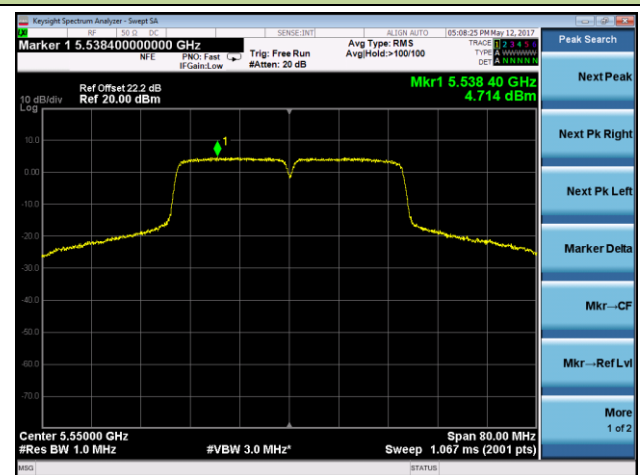
Channel 62 (5310MHz)



Channel 102 (5510MHz)

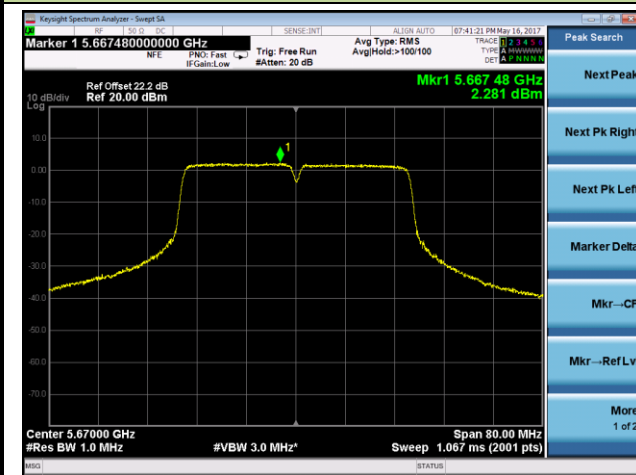


Channel 110 (5550MHz)

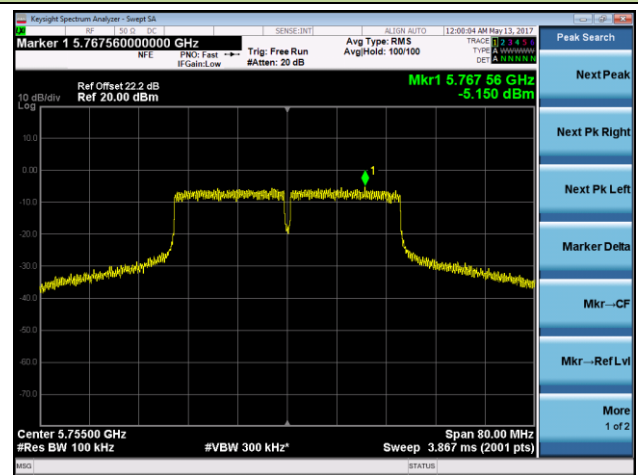


802.11n-HT40 Power Spectral Density - Chain 0 / Chain 0 + 1 + 2

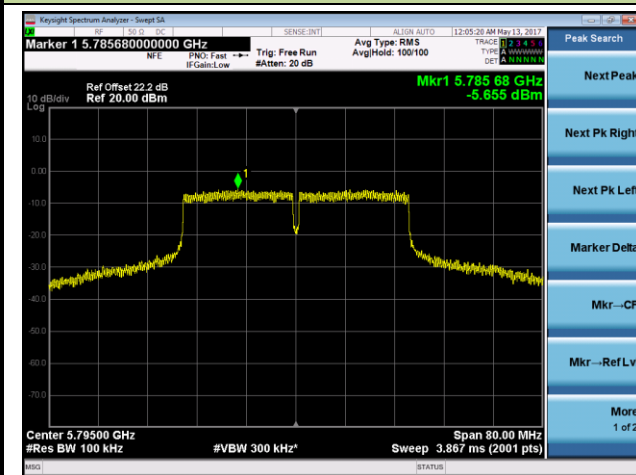
Channel 134 (5670MHz)

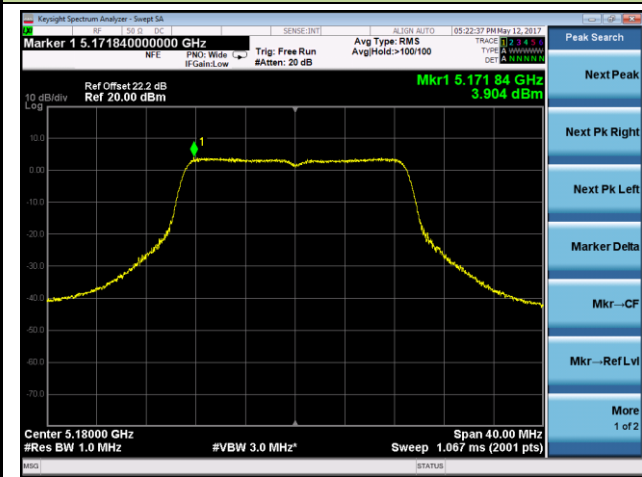
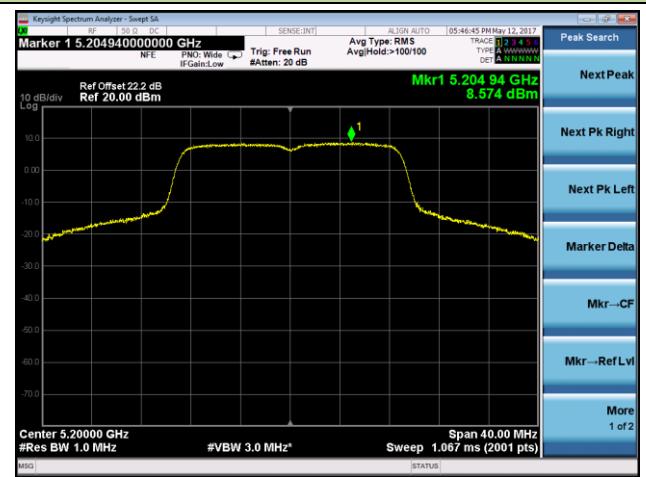
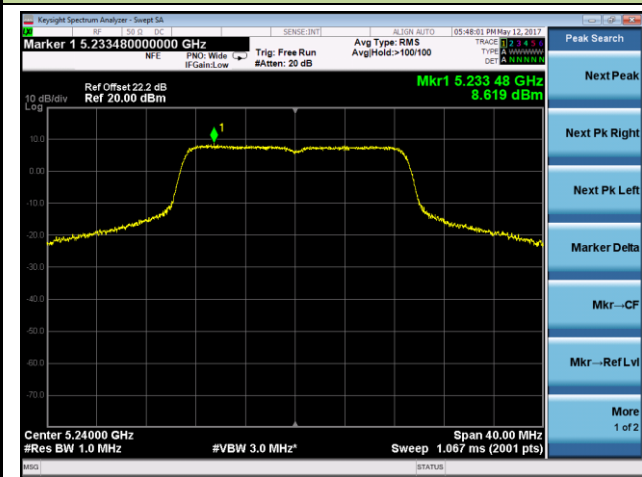
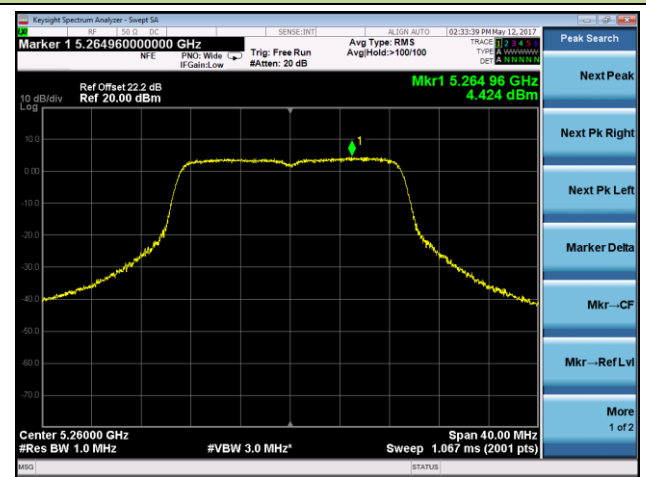
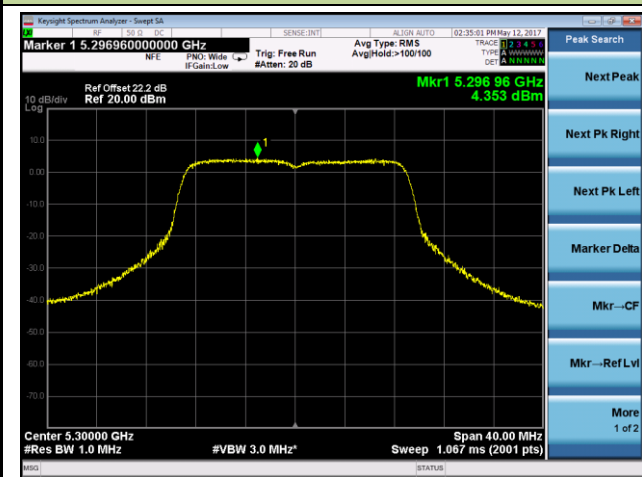


Channel 151 (5755MHz)



Channel 159 (5795MHz)



802.11ac-VHT20 Power Spectral Density - Chain 0 / Chain 0 + 1 + 2
Channel 36 (5180MHz)

Channel 40 (5200MHz)

Channel 48 (5240MHz)

Channel 52 (5260MHz)

Channel 60 (5300MHz)

Channel 64 (5320MHz)
