

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 2 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Max EIRP (dBm)	EIRP Limit (dBm)	Result
11a	6	36	5180	14.84	14.84	--	19.37	≤ 22.21	Pass
11a	6	44	5220	14.32	14.32	--	18.85	≤ 22.21	Pass
11a	6	48	5240	14.19	14.19	--	18.72	≤ 22.21	Pass
11a	6	149	5745	22.99	22.99	≤ 30.00	--	--	Pass
11a	6	157	5785	22.52	22.52	≤ 30.00	--	--	Pass
11a	6	165	5825	22.34	22.34	≤ 30.00	--	--	Pass
11n-HT20	6.5	36	5180	14.36	14.36	--	18.89	≤ 22.50	Pass
11n-HT20	6.5	44	5220	14.36	14.36	--	18.89	≤ 22.50	Pass
11n-HT20	6.5	48	5240	14.22	14.22	--	18.75	≤ 22.50	Pass
11n-HT20	6.5	149	5745	22.99	22.99	≤ 30.00	--	--	Pass
11n-HT20	6.5	157	5785	22.49	22.49	≤ 30.00	--	--	Pass
11n-HT20	6.5	165	5825	22.32	22.32	≤ 30.00	--	--	Pass
11n-HT40	13.5	38	5190	14.53	14.53	--	19.06	≤ 23.01	Pass
11n-HT40	13.5	46	5230	14.55	14.55	--	19.08	≤ 23.01	Pass
11n-HT40	13.5	151	5755	19.78	19.78	≤ 30.00	--	--	Pass
11n-HT40	13.5	159	5795	22.47	22.47	≤ 30.00	--	--	Pass
11ac-VHT20	6.5	36	5180	14.23	14.23	--	18.76	≤ 22.49	Pass
11ac-VHT20	6.5	44	5220	13.76	13.76	--	18.29	≤ 22.49	Pass
11ac-VHT20	6.5	48	5240	14.12	14.12	--	18.65	≤ 22.49	Pass
11ac-VHT20	6.5	149	5745	22.16	22.16	≤ 30.00	--	--	Pass
11ac-VHT20	6.5	157	5785	22.56	22.56	≤ 30.00	--	--	Pass
11ac-VHT20	6.5	165	5825	22.27	22.27	≤ 30.00	--	--	Pass
11ac-VHT40	13.5	38	5190	14.57	14.57	--	19.10	≤ 23.01	Pass
11ac-VHT40	13.5	46	5230	14.49	14.49	--	19.02	≤ 23.01	Pass
11ac-VHT40	13.5	151	5755	18.25	18.25	≤ 30.00	--	--	Pass
11ac-VHT40	13.5	159	5795	22.52	22.52	≤ 30.00	--	--	Pass
11ac-VHT80	29.3	42	5210	14.11	14.11	--	18.64	≤ 23.01	Pass
11ac-VHT80	29.3	155	5775	18.22	18.22	≤ 30.00	--	--	Pass

Note: Max EIRP Power (dBm) = Total Average Power (dBm) + Antenna Gain.

EIRP Limit Calculation as below:

For 5150-5250MHz

802.11a: $10 + 10 \log_{10}(16.63\text{MHz}) = 22.21\text{dBm} < 23.01\text{dBm}$;

802.11n-HT20: $10 + 10 \log_{10}(17.77\text{MHz}) = 22.50\text{dBm} < 23.01\text{dBm}$;

802.11ac-VHT20: $10 + 10 \log_{10} (17.76\text{MHz}) = 22.49\text{dBm} < 23.01\text{dBm}$;

802.11n-HT40/ac-VHT40/ac-VHT80: $10 + 10 \log_{10} B > 23.01\text{dBm}$;

2Tx

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Max EIRP (dBm)	EIRP Limit (dBm)	Result
11a	6	36	5180	9.61	9.59	12.61	--	20.60	≤ 22.21	Pass
11a	6	44	5220	9.28	9.53	12.42	--	20.41	≤ 22.21	Pass
11a	6	48	5240	9.27	9.23	12.26	--	20.25	≤ 22.21	Pass
11a	6	149	5745	21.27	22.07	24.70	≤ 27.06	--	--	Pass
11a	6	157	5785	22.96	23.44	26.22	≤ 27.06	--	--	Pass
11a	6	165	5825	22.27	22.51	25.40	≤ 27.06	--	--	Pass
11n-HT20	13	36	5180	9.40	9.23	12.33	--	20.32	≤ 22.49	Pass
11n-HT20	13	44	5220	9.11	9.33	12.23	--	20.22	≤ 22.49	Pass
11n-HT20	13	48	5240	9.04	9.03	12.05	--	20.04	≤ 22.49	Pass
11n-HT20	13	149	5745	21.35	22.21	24.81	≤ 27.06	--	--	Pass
11n-HT20	13	157	5785	22.67	23.14	25.92	≤ 27.06	--	--	Pass
11n-HT20	13	165	5825	22.56	22.51	25.55	≤ 27.06	--	--	Pass
11n-HT40	27	38	5190	11.54	11.44	14.50	--	22.49	≤ 23.01	Pass
11n-HT40	27	46	5230	11.32	11.48	14.41	--	22.40	≤ 23.01	Pass
11n-HT40	27	151	5755	16.10	17.05	19.61	≤ 27.06	--	--	Pass
11n-HT40	27	159	5795	22.55	23.36	25.98	≤ 27.06	--	--	Pass
11ac-VHT20	13	36	5180	9.84	9.82	12.84	--	20.83	≤ 22.49	Pass
11ac-VHT20	13	44	5220	9.57	9.84	12.72	--	20.71	≤ 22.49	Pass
11ac-VHT20	13	48	5240	9.56	9.53	12.56	--	20.55	≤ 22.49	Pass
11ac-VHT20	13	149	5745	19.73	20.83	23.33	≤ 27.06	--	--	Pass
11ac-VHT20	13	157	5785	22.52	23.27	25.92	≤ 27.06	--	--	Pass
11ac-VHT20	13	165	5825	21.99	22.20	25.11	≤ 27.06	--	--	Pass
11ac-VHT40	27	38	5190	11.52	11.49	14.52	--	22.51	≤ 23.01	Pass
11ac-VHT40	27	46	5230	11.36	11.53	14.46	--	22.45	≤ 23.01	Pass
11ac-VHT40	27	151	5755	16.19	17.20	19.73	≤ 27.06	--	--	Pass
11ac-VHT40	27	159	5795	22.50	23.43	26.00	≤ 27.06	--	--	Pass
11ac-VHT80	58.6	42	5210	11.50	11.51	14.52	--	22.51	≤ 23.01	Pass
11ac-VHT80	58.6	155	5775	12.43	13.26	15.88	≤ 27.06	--	--	Pass

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

Note 2: Max EIRP Power (dBm) = Total Average Power (dBm) + Antenna Gain.

EIRP Limit Calculation as below:

For 5150-5250MHz

802.11a: $10 + 10 \log_{10} (16.63\text{MHz}) = 22.21\text{dBm} < 23.01\text{dBm}$;

802.11n-HT20: $10 + 10 \log_{10} (17.77\text{MHz}) = 22.49\text{dBm} < 23.01\text{dBm}$;

802.11ac-VHT20: $10 + 10 \log_{10} (17.76\text{MHz}) = 22.49\text{dBm} < 23.01\text{dBm}$;

802.11n-HT40/ac-VHT40/ac-VHT80: $10 + 10 \log_{10} B > 23.01\text{dBm}$;

For FCC band (UNII-1)

1Tx

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
11a	6	36	5180	22.60	22.60	≤ 30.00	Pass
11a	6	44	5220	23.91	23.91	≤ 30.00	Pass
11a	6	48	5240	23.48	23.48	≤ 30.00	Pass
11n-HT20	26	36	5180	22.54	22.54	≤ 30.00	Pass
11n-HT20	26	44	5220	23.88	23.88	≤ 30.00	Pass
11n-HT20	26	48	5240	23.45	23.45	≤ 30.00	Pass
11n-HT40	54	38	5190	20.75	20.75	≤ 30.00	Pass
11n-HT40	54	46	5230	23.03	23.03	≤ 30.00	Pass
11ac-VHT20	26	36	5180	22.05	22.05	≤ 30.00	Pass
11ac-VHT20	26	44	5220	23.88	23.88	≤ 30.00	Pass
11ac-VHT20	26	48	5240	23.47	23.47	≤ 30.00	Pass
11ac-VHT40	54	38	5190	20.22	20.22	≤ 30.00	Pass
11ac-VHT40	54	46	5230	22.98	22.98	≤ 30.00	Pass
11ac-VHT80	117	42	5210	19.84	19.84	≤ 30.00	Pass

1Tx

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 2 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
11a	6	36	5180	22.50	22.50	≤ 30.00	Pass
11a	6	44	5220	22.58	22.58	≤ 30.00	Pass
11a	6	48	5240	22.78	22.78	≤ 30.00	Pass
11n-HT20	26	36	5180	22.39	22.39	≤ 30.00	Pass
11n-HT20	26	44	5220	22.54	22.54	≤ 30.00	Pass
11n-HT20	26	48	5240	22.77	22.77	≤ 30.00	Pass
11n-HT40	54	38	5190	19.53	19.53	≤ 30.00	Pass
11n-HT40	54	46	5230	21.63	21.63	≤ 30.00	Pass
11ac-VHT20	26	36	5180	22.60	22.60	≤ 30.00	Pass
11ac-VHT20	26	44	5220	22.62	22.62	≤ 30.00	Pass
11ac-VHT20	26	48	5240	22.83	22.83	≤ 30.00	Pass
11ac-VHT40	54	38	5190	19.53	19.53	≤ 30.00	Pass
11ac-VHT40	54	46	5230	21.62	21.62	≤ 30.00	Pass
11ac-VHT80	117	42	5210	18.52	18.52	≤ 30.00	Pass

2T_x

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
11a	6	36	5180	22.54	20.40	24.61	≤ 28.01	Pass
11a	6	44	5220	23.86	22.60	26.29	≤ 28.01	Pass
11a	6	48	5240	23.48	22.77	26.15	≤ 28.01	Pass
11n-HT20	26	36	5180	21.87	19.77	23.96	≤ 28.01	Pass
11n-HT20	26	44	5220	23.67	22.40	26.09	≤ 28.01	Pass
11n-HT20	26	48	5240	23.32	22.60	25.99	≤ 28.01	Pass
11n-HT40	54	38	5190	19.08	16.74	21.08	≤ 28.01	Pass
11n-HT40	54	46	5230	22.70	21.45	25.13	≤ 28.01	Pass
11ac-VHT20	26	36	5180	21.48	19.20	23.50	≤ 28.01	Pass
11ac-VHT20	26	44	5220	23.75	22.50	26.18	≤ 28.01	Pass
11ac-VHT20	26	48	5240	23.23	22.70	25.98	≤ 28.01	Pass
11ac-VHT40	54	38	5190	19.03	16.73	21.04	≤ 28.01	Pass
11ac-VHT40	54	46	5230	22.66	21.34	25.06	≤ 28.01	Pass
11ac-VHT80	117	42	5210	18.98	17.10	21.15	≤ 28.01	Pass

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

7.6. Transmit Power Control

7.6.1. 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.

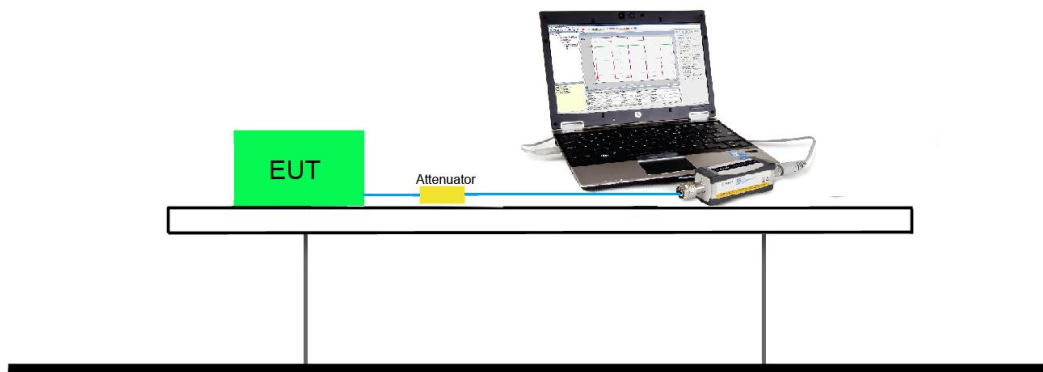
7.6.2. Test Procedure Used

KDB 789033 D02v01 - Section E) 3) b) Method PM-G

7.6.3. 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.

7.6.4. Test Setup



7.6.5. Test Result

TPC is not required for 5150 ~ 5250MHz & 5725 ~ 5850MHz.

7.7. Power Spectral Density Measurement

7.7.1. Test Limit

For FCC

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 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.

For IC

For the band 5.15-5.25 GHz, the e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

For the 5.725-5.85 GHz band, the power spectral density shall not exceed 30 dBm in any 500 kHz band.

7.7.2. Test Procedure Used

KDB 789033 D02v01 - Section F

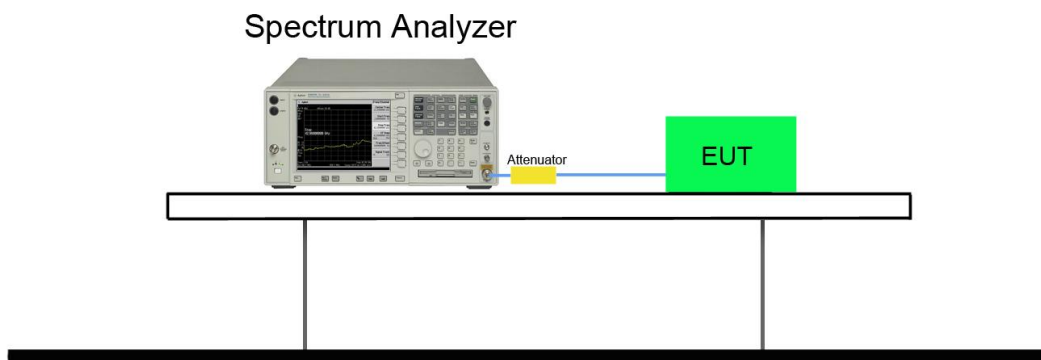
7.7.3. Test Setting

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 $10 \cdot \log(500\text{kHz}/100\text{kHz}) = 7$ dB to the measured result

7.7.4. Test Setup



7.7.5. Test Result

For FCC bands (UNII-3) & IC bands (UNII-1 & UNII-3)

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Result
11a	6	36	5180	3.91	96.04	4.08	--	9.48	≤ 10.00	Pass
11a	6	44	5220	3.82	96.04	3.99	--	9.39	≤ 10.00	Pass
11a	6	48	5240	3.44	96.04	3.62	--	9.02	≤ 10.00	Pass
11n-HT20	6.5	36	5180	3.85	93.72	4.13	--	9.53	≤ 10.00	Pass
11n-HT20	6.5	44	5220	3.50	93.72	3.78	--	9.18	≤ 10.00	Pass
11n-HT20	6.5	48	5240	3.25	93.72	3.53	--	8.93	≤ 10.00	Pass
11n-HT40	13.5	38	5190	0.31	91.16	0.71	--	6.11	≤ 10.00	Pass
11n-HT40	13.5	46	5230	-0.37	91.16	0.03	--	5.43	≤ 10.00	Pass
11ac-VHT20	6.5	36	5180	3.79	95.63	3.98	--	9.38	≤ 10.00	Pass
11ac-VHT20	6.5	44	5220	3.75	95.63	3.94	--	9.34	≤ 10.00	Pass
11ac-VHT20	6.5	48	5240	3.85	95.63	4.05	--	9.45	≤ 10.00	Pass
11ac-VHT40	13.5	38	5190	0.62	90.35	1.06	--	6.46	≤ 10.00	Pass
11ac-VHT40	13.5	46	5230	0.21	90.35	0.65	--	6.05	≤ 10.00	Pass
11ac-VHT80	29.3	42	5210	-2.34	82.45	-1.50	--	3.90	≤ 10.00	Pass

Note:

When EUT duty cycle < 98%, the total PSD = Ant 1 PSD (dBm/MHz) + 10*log(1/duty cycle),

EIRP PSD (dBm/MHz) = Total PSD (dBm/MHz) + Antenna Gain (dBi)

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 2 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Result
11a	6	36	5180	4.51	96.04	4.68	--	9.21	≤ 10.00	Pass
11a	6	44	5220	4.86	96.04	5.03	--	9.56	≤ 10.00	Pass
11a	6	48	5240	4.77	96.04	4.94	--	9.47	≤ 10.00	Pass
11n-HT20	6.5	36	5180	4.86	93.72	5.14	--	9.67	≤ 10.00	Pass
11n-HT20	6.5	44	5220	4.88	93.72	5.16	--	9.69	≤ 10.00	Pass
11n-HT20	6.5	48	5240	4.25	93.72	4.53	--	9.06	≤ 10.00	Pass
11n-HT40	13.5	38	5190	1.26	91.16	1.66	--	6.19	≤ 10.00	Pass
11n-HT40	13.5	46	5230	1.51	91.16	1.91	--	6.44	≤ 10.00	Pass
11ac-VHT20	6.5	36	5180	4.81	95.63	5.00	--	9.53	≤ 10.00	Pass
11ac-VHT20	6.5	44	5220	4.60	95.63	4.79	--	9.32	≤ 10.00	Pass
11ac-VHT20	6.5	48	5240	4.96	95.63	5.16	--	9.69	≤ 10.00	Pass
11ac-VHT40	13.5	38	5190	0.96	90.35	1.40	--	5.93	≤ 10.00	Pass
11ac-VHT40	13.5	46	5230	1.45	90.35	1.89	--	6.42	≤ 10.00	Pass
11ac-VHT80	29.3	42	5210	-1.76	82.45	-0.92	--	3.61	≤ 10.00	Pass

Note:

When EUT duty cycle < 98%, the total PSD = Ant 2 PSD (dBm/MHz) + 10*log(1/duty cycle),
 EIRP PSD (dBm/MHz) = Total PSD (dBm/MHz) + Antenna Gain (dBi)

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Result
11a	6	36	5180	-1.18	-1.65	96.04	1.78	--	9.77	≤ 10.00	Pass
11a	6	44	5220	-1.53	-1.23	96.04	1.81	--	9.80	≤ 10.00	Pass
11a	6	48	5240	-1.55	-1.49	96.04	1.67	--	9.66	≤ 10.00	Pass
11n-HT20	13	36	5180	-1.81	-2.03	93.72	1.37	--	9.36	≤ 10.00	Pass
11n-HT20	13	44	5220	-2.05	-1.76	93.72	1.39	--	9.38	≤ 10.00	Pass
11n-HT20	13	48	5240	-2.17	-1.98	93.72	1.21	--	9.20	≤ 10.00	Pass
11n-HT40	27	38	5190	-2.45	-2.89	91.16	0.75	--	8.74	≤ 10.00	Pass
11n-HT40	27	46	5230	-2.39	-2.01	91.16	1.22	--	8.90	≤ 10.00	Pass
11ac-VHT20	13	36	5180	-1.53	-1.50	95.63	1.69	--	9.68	≤ 10.00	Pass
11ac-VHT20	13	44	5220	-1.35	-1.38	95.63	1.84	--	9.83	≤ 10.00	Pass
11ac-VHT20	13	48	5240	-1.70	-1.20	95.63	1.76	--	9.75	≤ 10.00	Pass
11ac-VHT40	27	38	5190	-2.45	-2.81	90.35	0.83	--	8.82	≤ 10.00	Pass
11ac-VHT40	27	46	5230	-1.95	-2.65	90.35	1.16	--	9.15	≤ 10.00	Pass
11ac-VHT80	58.6	42	5210	-4.47	-5.10	82.45	-0.93	--	7.06	≤ 10.00	Pass

Note:

When EUT duty cycle < 98%, the total PSD = $10 \cdot \log\{10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}\} + 10 \cdot \log(1/\text{duty cycle})$,

EIRP PSD (dBm/MHz) = Total PSD (dBm/MHz) + Antenna Gain(dBi)

For FCC Bands (UNII-1)

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11a	6	36	5180	10.93	96.04	11.10	≤ 17.00	Pass
11a	6	44	5220	12.10	96.04	12.28	≤ 17.00	Pass
11a	6	48	5240	11.80	96.04	11.97	≤ 17.00	Pass
11n-HT20	6.5	36	5180	10.49	93.72	10.77	≤ 17.00	Pass
11n-HT20	6.5	44	5220	11.78	93.72	12.06	≤ 17.00	Pass
11n-HT20	6.5	48	5240	11.53	93.72	11.81	≤ 17.00	Pass
11n-HT40	13.5	38	5190	6.26	91.16	6.66	≤ 17.00	Pass
11n-HT40	13.5	46	5230	8.31	91.16	8.72	≤ 17.00	Pass
11ac-VHT20	6.5	36	5180	10.15	95.63	10.34	≤ 17.00	Pass
11ac-VHT20	6.5	44	5220	11.83	95.63	12.03	≤ 17.00	Pass
11ac-VHT20	6.5	48	5240	11.67	95.63	11.87	≤ 17.00	Pass
11ac-VHT40	13.5	38	5190	5.32	90.35	5.76	≤ 17.00	Pass
11ac-VHT40	13.5	46	5230	8.20	90.35	8.64	≤ 17.00	Pass
11ac-VHT80	29.3	42	5210	3.14	82.45	3.98	≤ 17.00	Pass

Note: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = Ant 1 PSD (dBm/MHz) + 10*log(1/duty cycle)

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 2 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11a	6	36	5180	10.71	96.04	10.88	≤ 17.00	Pass
11a	6	44	5220	10.54	96.04	10.71	≤ 17.00	Pass
11a	6	48	5240	10.96	96.04	11.13	≤ 17.00	Pass
11n-HT20	6.5	36	5180	10.27	93.72	10.55	≤ 17.00	Pass
11n-HT20	6.5	44	5220	10.35	93.72	10.63	≤ 17.00	Pass
11n-HT20	6.5	48	5240	10.59	93.72	10.87	≤ 17.00	Pass
11n-HT40	13.5	38	5190	3.49	91.16	3.89	≤ 17.00	Pass
11n-HT40	13.5	46	5230	6.63	91.16	7.03	≤ 17.00	Pass
11ac-VHT20	6.5	36	5180	9.61	95.63	9.80	≤ 17.00	Pass
11ac-VHT20	6.5	44	5220	10.33	95.63	10.52	≤ 17.00	Pass
11ac-VHT20	6.5	48	5240	10.65	95.63	10.84	≤ 17.00	Pass
11ac-VHT40	13.5	38	5190	3.10	90.35	3.54	≤ 17.00	Pass
11ac-VHT40	13.5	46	5230	6.56	90.35	7.00	≤ 17.00	Pass
11ac-VHT80	29.3	42	5210	-0.83	82.45	0.00	≤ 17.00	Pass

Note: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = Ant 2 PSD (dBm/MHz) + 10*log(1/duty cycle)

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11a	6	36	5180	10.50	7.63	96.04	12.48	≤ 15.01	Pass
11a	6	44	5220	12.36	10.72	96.04	14.80	≤ 15.01	Pass
11a	6	48	5240	11.81	10.79	96.04	14.52	≤ 15.01	Pass
11n-HT20	13	36	5180	9.51	6.99	93.72	11.72	≤ 15.01	Pass
11n-HT20	13	44	5220	11.46	10.12	93.72	14.13	≤ 15.01	Pass
11n-HT20	13	48	5240	11.23	10.40	93.72	14.13	≤ 15.01	Pass
11n-HT40	27	38	5190	4.32	1.67	91.16	6.61	≤ 15.01	Pass
11n-HT40	27	46	5230	7.97	6.55	91.16	10.73	≤ 15.01	Pass
11ac-VHT20	13	36	5180	9.37	6.92	95.63	11.52	≤ 15.01	Pass
11ac-VHT20	13	44	5220	11.85	10.20	95.63	14.31	≤ 15.01	Pass
11ac-VHT20	13	48	5240	11.21	10.25	95.63	13.96	≤ 15.01	Pass
11ac-VHT40	27	38	5190	4.72	1.84	90.35	6.97	≤ 15.01	Pass
11ac-VHT40	27	46	5230	8.11	5.98	90.35	10.63	≤ 15.01	Pass
11ac-VHT80	58.6	42	5210	2.09	-2.75	82.45	2.93	≤ 15.01	Pass

Note: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = $10 \cdot \log\{10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}\} + 10 \cdot \log(1/\text{duty cycle})$

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 1 PSD (dBm/100kHz)	Duty Cycle (%)	Constant Factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
11a	6	149	5745	2.42	96.04	7	9.60	≤ 30.00	Pass
11a	6	157	5785	2.18	96.04	7	9.36	≤ 30.00	Pass
11a	6	165	5825	2.36	96.04	7	9.54	≤ 30.00	Pass
11n-HT20	6.5	149	5745	2.08	93.72	7	9.36	≤ 30.00	Pass
11n-HT20	6.5	157	5785	1.79	93.72	7	9.07	≤ 30.00	Pass
11n-HT20	6.5	165	5825	1.87	93.72	7	9.15	≤ 30.00	Pass
11n-HT40	13.5	151	5755	-1.35	91.16	7	6.05	≤ 30.00	Pass
11n-HT40	13.5	159	5795	-0.87	91.16	7	6.53	≤ 30.00	Pass
11ac-VHT20	6.5	149	5745	2.64	95.63	7	9.83	≤ 30.00	Pass
11ac-VHT20	6.5	157	5785	2.13	95.63	7	9.32	≤ 30.00	Pass
11ac-VHT20	6.5	165	5825	1.90	95.63	7	9.09	≤ 30.00	Pass
11ac-VHT40	13.5	151	5755	-1.56	90.35	7	5.88	≤ 30.00	Pass
11ac-VHT40	13.5	159	5795	-1.33	90.35	7	6.11	≤ 30.00	Pass
11ac-VHT80	29.3	155	5775	-4.05	82.45	7	3.79	≤ 30.00	Pass

Note: When EUT duty cycle < 98%, Total PSD (dBm/500kHz) = Ant 1 PSD (dBm/100kHz) + 10*log(1/duty cycle) + Constant Factor.

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 2 PSD (dBm/100kHz)	Duty Cycle (%)	Constant Factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
11a	6	149	5745	0.50	96.04	7	7.68	≤ 30.00	Pass
11a	6	157	5785	2.56	96.04	7	9.74	≤ 30.00	Pass
11a	6	165	5825	2.41	96.04	7	9.59	≤ 30.00	Pass
11n-HT20	6.5	149	5745	0.56	93.72	7	7.84	≤ 30.00	Pass
11n-HT20	6.5	157	5785	2.19	93.72	7	9.47	≤ 30.00	Pass
11n-HT20	6.5	165	5825	2.48	93.72	7	9.76	≤ 30.00	Pass
11n-HT40	13.5	151	5755	-5.76	91.16	7	1.64	≤ 30.00	Pass
11n-HT40	13.5	159	5795	0.11	91.16	7	7.51	≤ 30.00	Pass
11ac-VHT20	6.5	149	5745	-1.24	95.63	7	5.95	≤ 30.00	Pass
11ac-VHT20	6.5	157	5785	2.54	95.63	7	9.73	≤ 30.00	Pass
11ac-VHT20	6.5	165	5825	1.86	95.63	7	9.05	≤ 30.00	Pass
11ac-VHT40	13.5	151	5755	-5.84	90.35	7	1.60	≤ 30.00	Pass
11ac-VHT40	13.5	159	5795	0.18	90.35	7	7.62	≤ 30.00	Pass
11ac-VHT80	29.3	155	5775	-11.17	82.45	7	-3.33	≤ 30.00	Pass

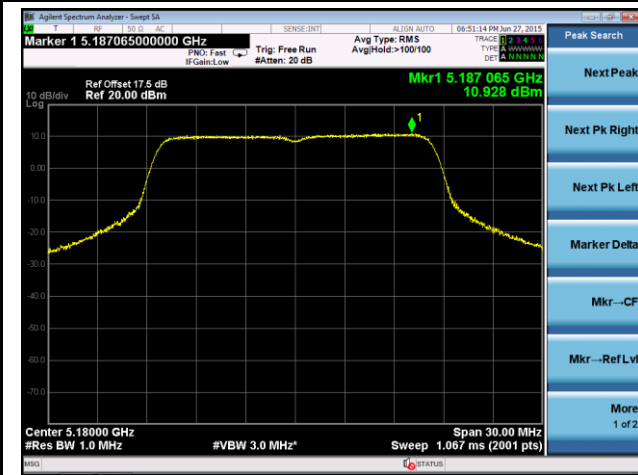
Note: When EUT duty cycle < 98%, Total PSD (dBm/500kHz) = Ant 2 PSD (dBm/100kHz) + 10*log(1/duty cycle) + Constant Factor.

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 1 PSD (dBm/100kHz)	Ant 2 PSD (dBm/100kHz)	Duty Cycle (%)	Constant Factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
11a	6	149	5745	1.53	2.17	96.04	7	12.05	≤ 27.06	Pass
11a	6	157	5785	3.01	3.04	96.04	7	13.21	≤ 27.06	Pass
11a	6	165	5825	1.86	1.91	96.04	7	12.07	≤ 27.06	Pass
11n-HT20	13	149	5745	-0.89	0.13	93.72	7	9.94	≤ 27.06	Pass
11n-HT20	13	157	5785	2.05	2.58	93.72	7	12.62	≤ 27.06	Pass
11n-HT20	13	165	5825	0.91	1.57	93.72	7	11.54	≤ 27.06	Pass
11n-HT40	27	151	5755	-6.47	-5.79	91.16	7	4.30	≤ 27.06	Pass
11n-HT40	27	159	5795	-1.88	-0.34	91.16	7	9.37	≤ 27.06	Pass
11ac-VHT20	13	149	5745	-0.69	0.07	95.63	7	9.91	≤ 27.06	Pass
11ac-VHT20	13	157	5785	2.46	3.13	95.63	7	13.01	≤ 27.06	Pass
11ac-VHT20	13	165	5825	0.73	0.57	95.63	7	10.86	≤ 27.06	Pass
11ac-VHT40	27	151	5755	-6.48	-5.50	90.35	7	4.49	≤ 27.06	Pass
11ac-VHT40	27	159	5795	-0.76	0.01	90.35	7	10.09	≤ 27.06	Pass
11ac-VHT80	58.6	155	5775	-13.03	-11.14	82.45	7	-1.13	≤ 27.06	Pass

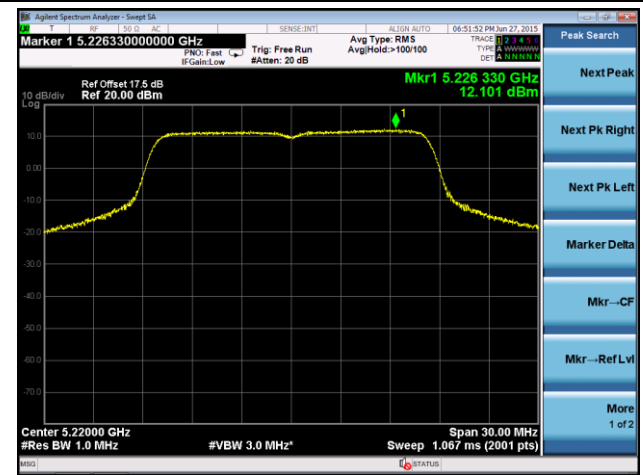
Note: When EUT duty cycle < 98%, Total PSD (dBm/500kHz) = $10 \cdot \log\{10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}\} + 10 \cdot \log(1/\text{duty cycle}) + \text{Constant Factor}$.

802.11a Power Spectral Density - Ant 1

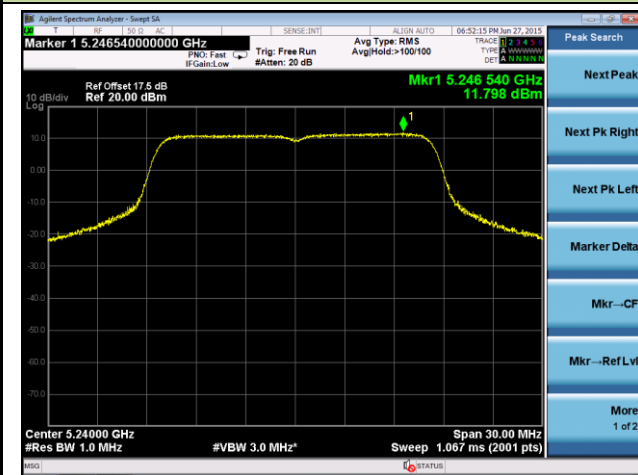
Channel 36 (5180MHz)



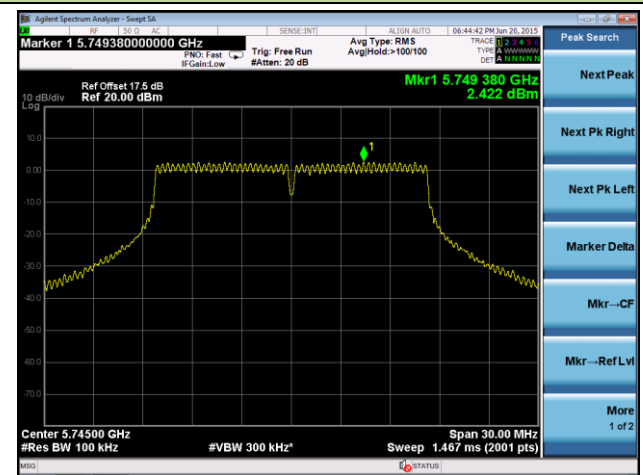
Channel 44 (5220MHz)



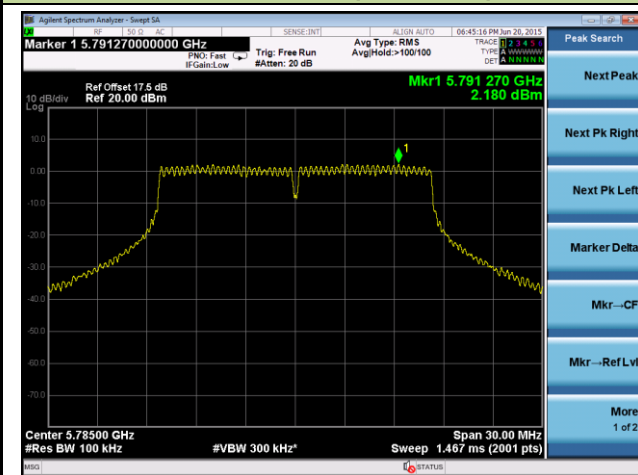
Channel 48 (5240MHz)



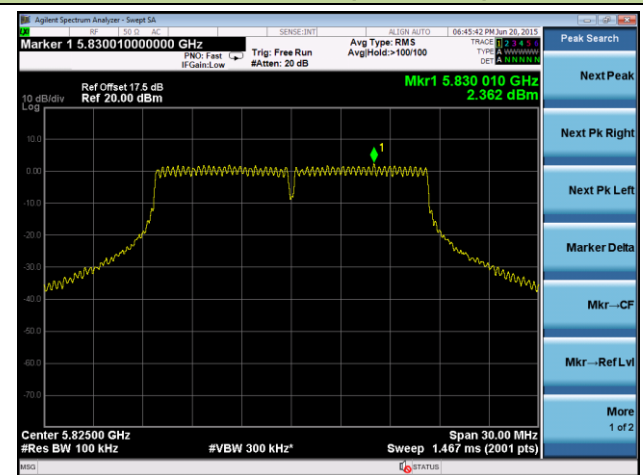
Channel 149 (5745MHz)



Channel 157 (5785MHz)

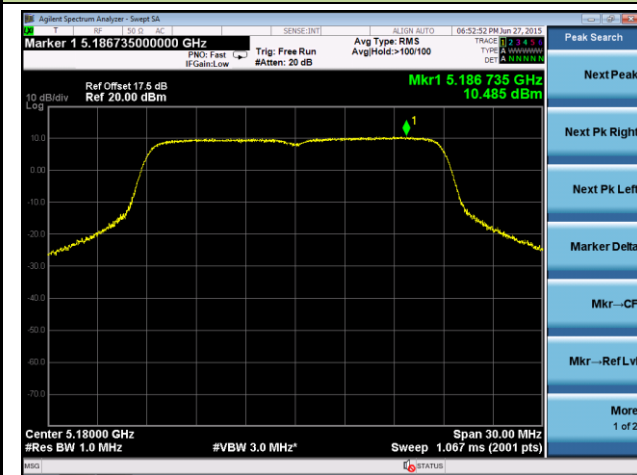


Channel 165 (5825MHz)

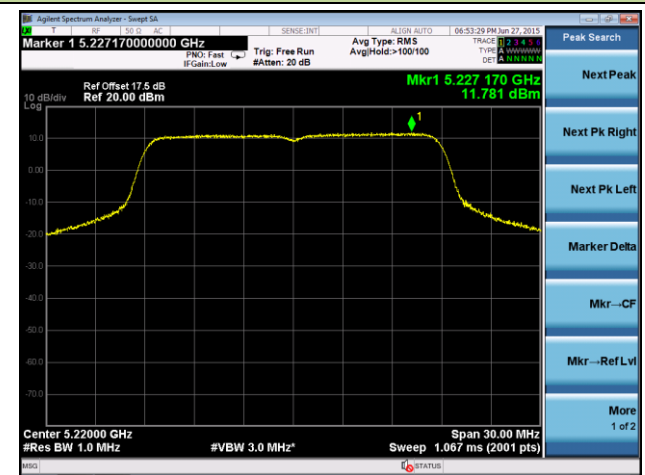


802.11n-HT20 Power Spectral Density - Ant 1

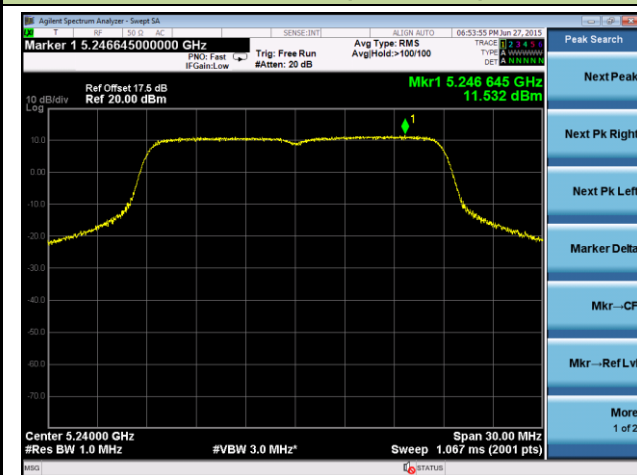
Channel 36 (5180MHz)



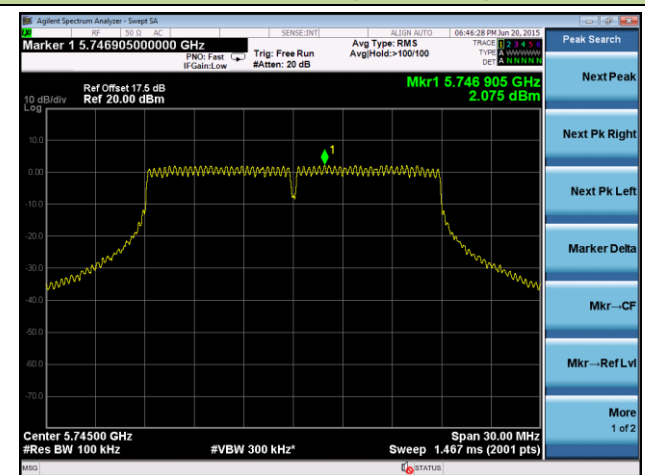
Channel 44 (5220MHz)



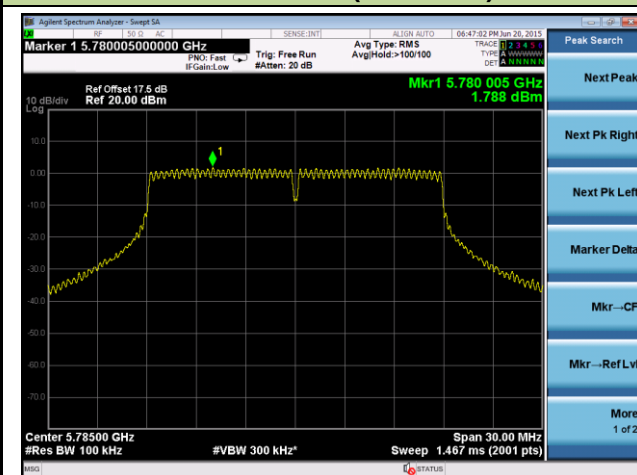
Channel 48 (5240MHz)



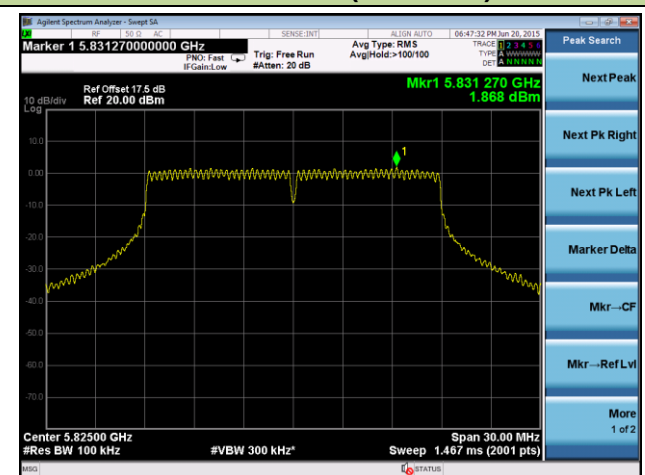
Channel 149 (5745MHz)



Channel 157 (5785MHz)

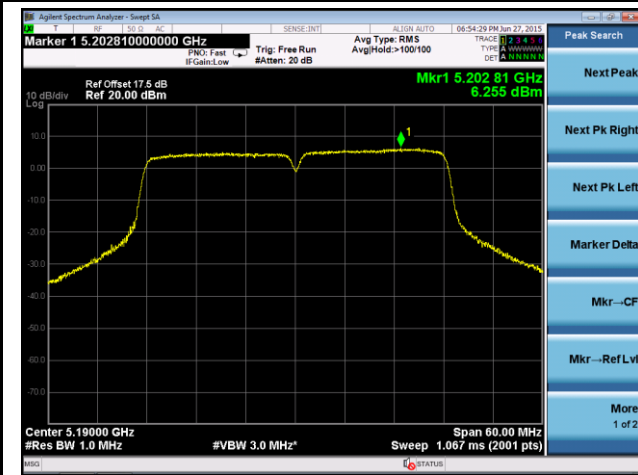


Channel 165 (5825MHz)



802.11n-HT40 Power Spectral Density - Ant 1

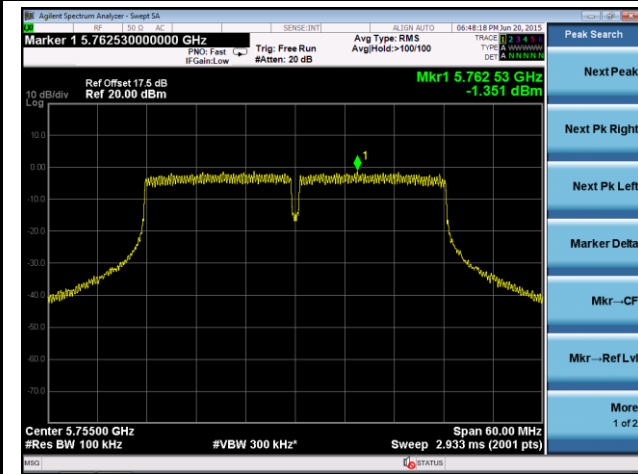
Channel 38 (5190MHz)



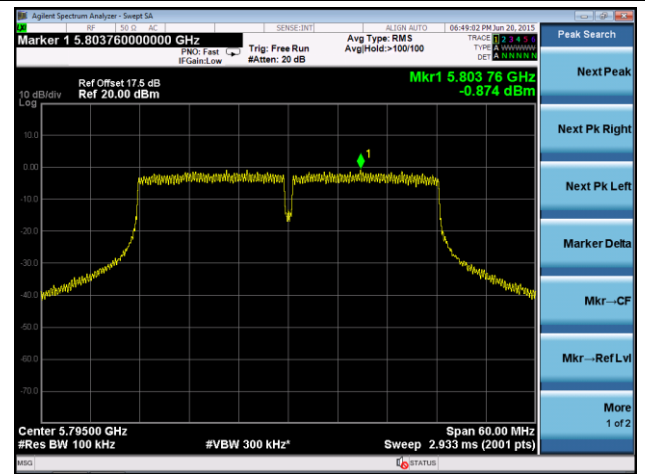
Channel 46 (5230MHz)



Channel 151 (5755MHz)

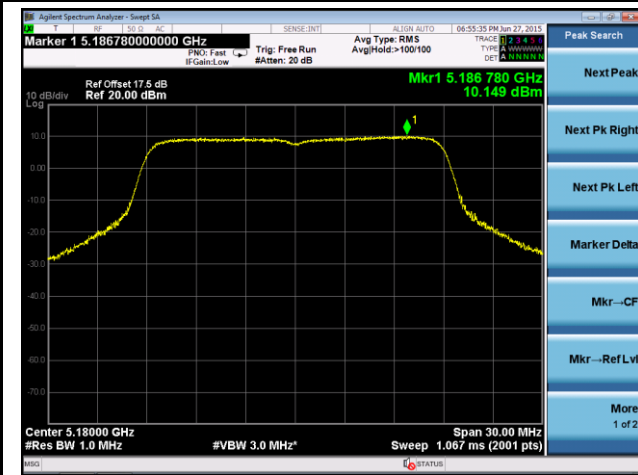


Channel 159 (5795MHz)

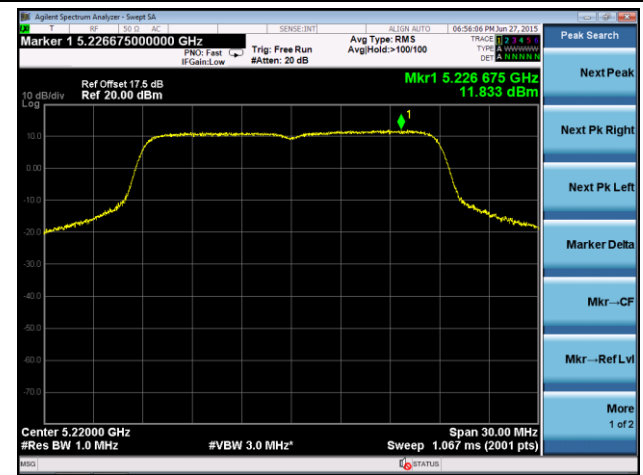


802.11ac-VHT20 Power Spectral Density - Ant 1

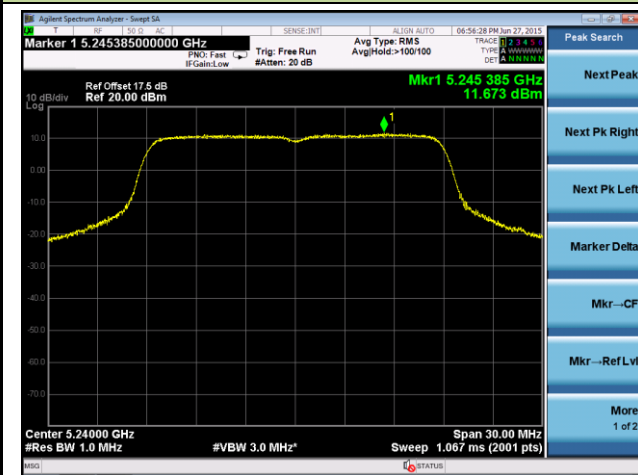
Channel 36 (5180MHz)



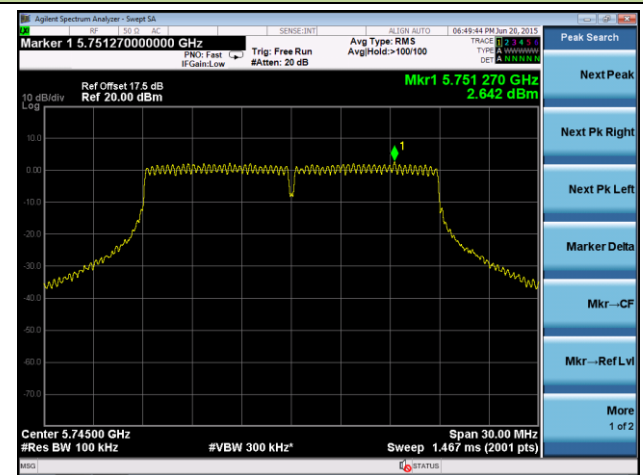
Channel 44 (5220MHz)



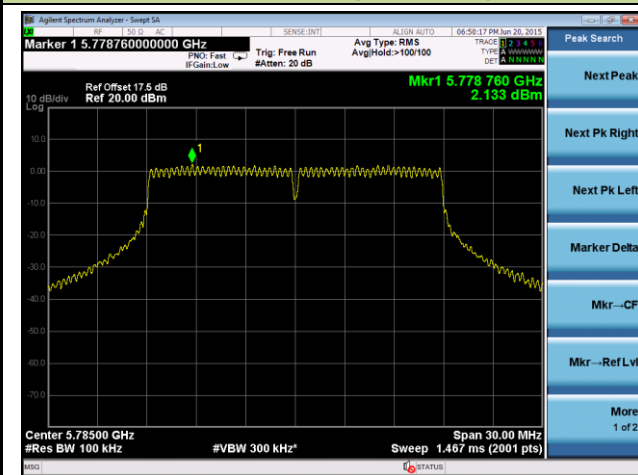
Channel 48 (5240MHz)



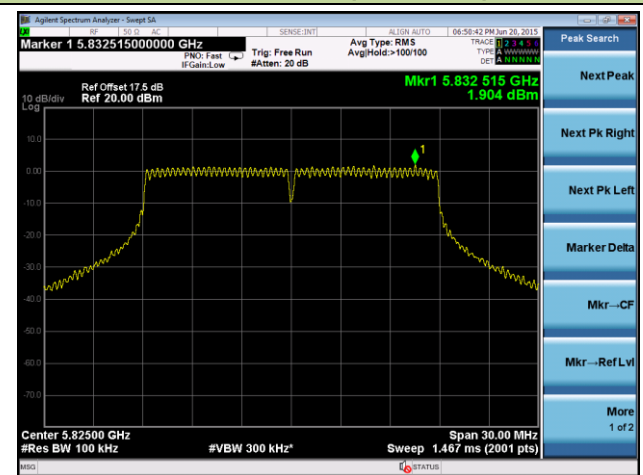
Channel 149 (5745MHz)



Channel 157 (5785MHz)

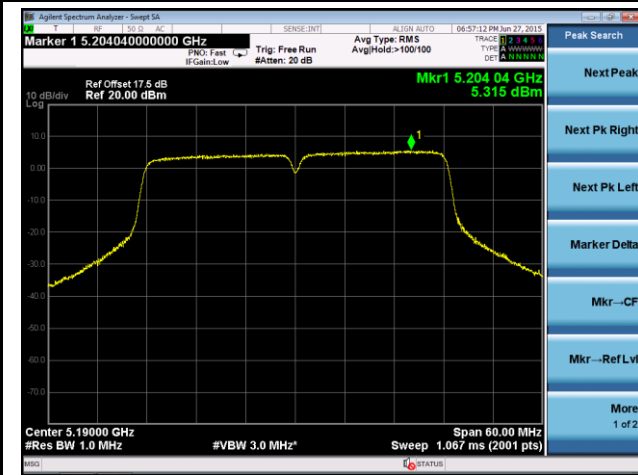


Channel 165 (5825MHz)

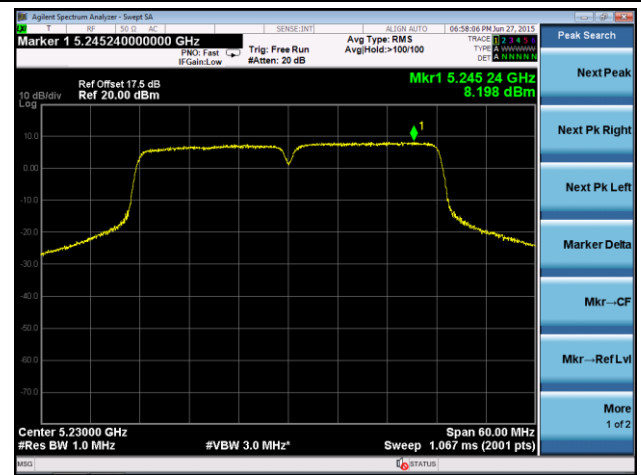


802.11ac-VHT40 Power Spectral Density - Ant 1

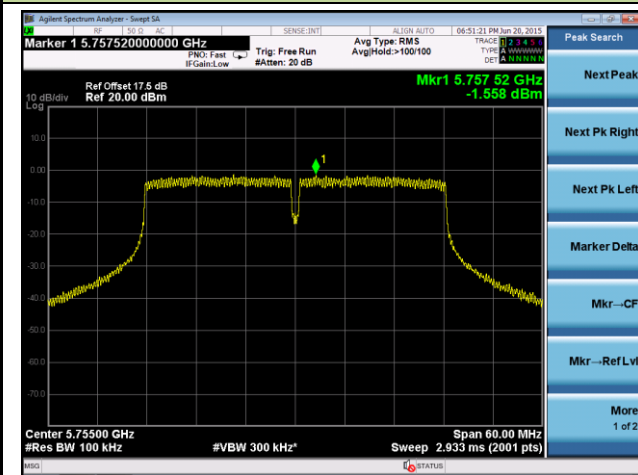
Channel 38 (5190MHz)



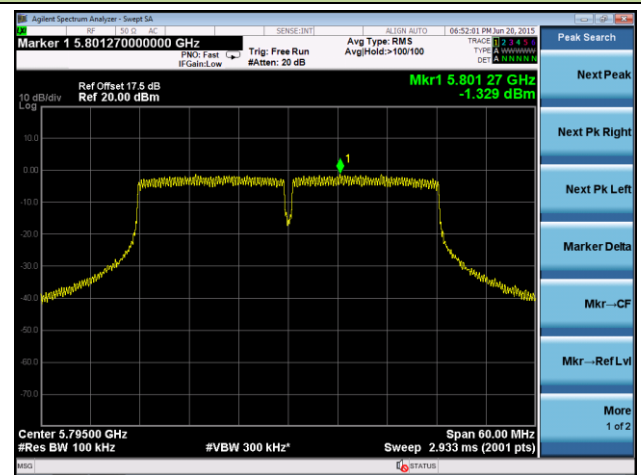
Channel 46 (5230MHz)



Channel 151 (5755MHz)

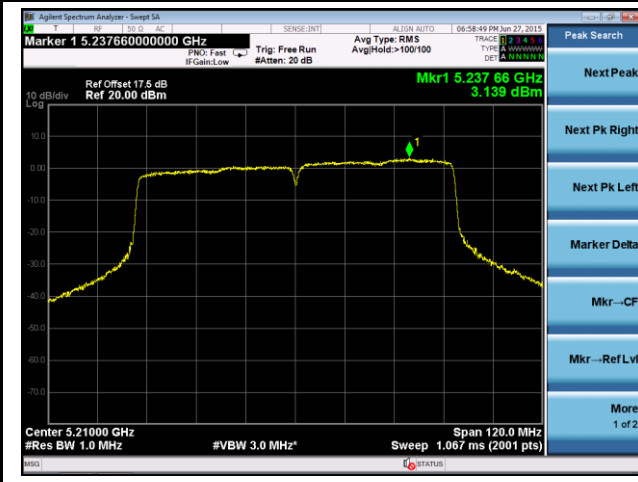


Channel 159 (5795MHz)

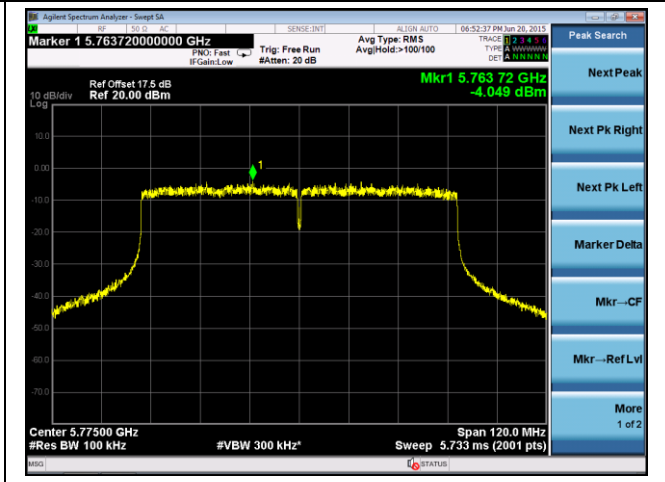


802.11ac-VHT80 Power Spectral Density - Ant 1

Channel 42 (5210MHz)

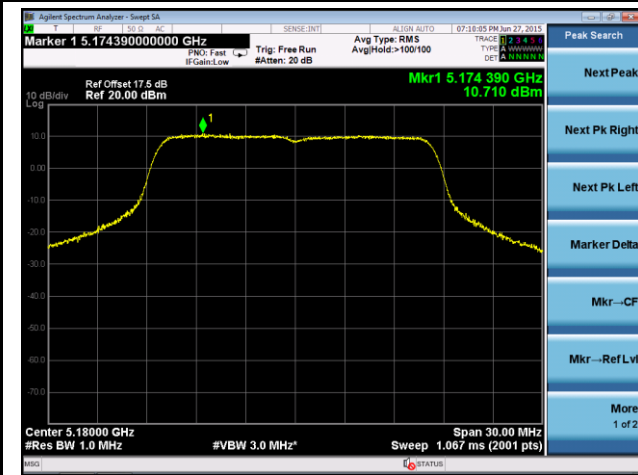


Channel 155 (5775MHz)

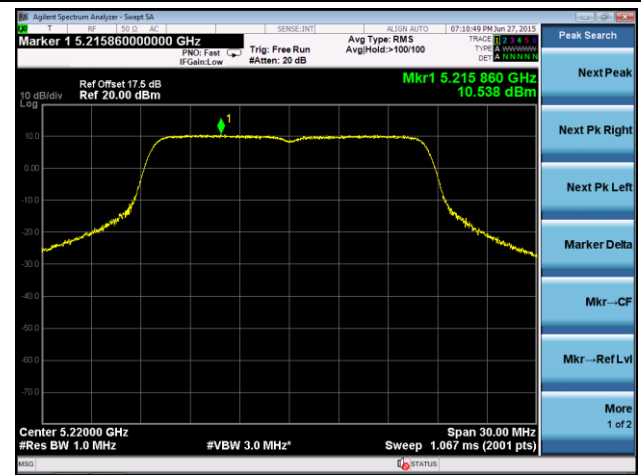


802.11a Power Spectral Density - Ant 2

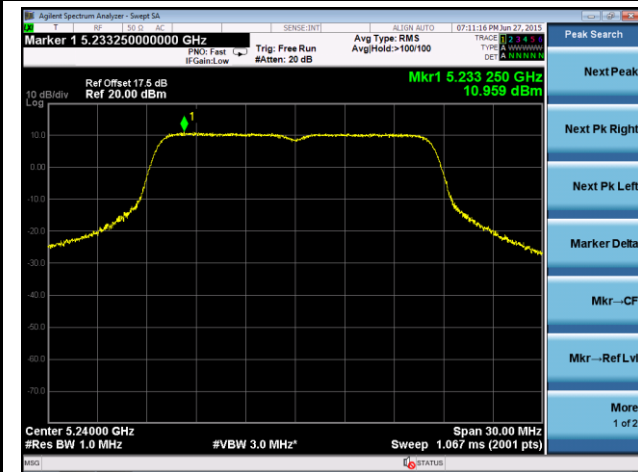
Channel 36 (5180MHz)



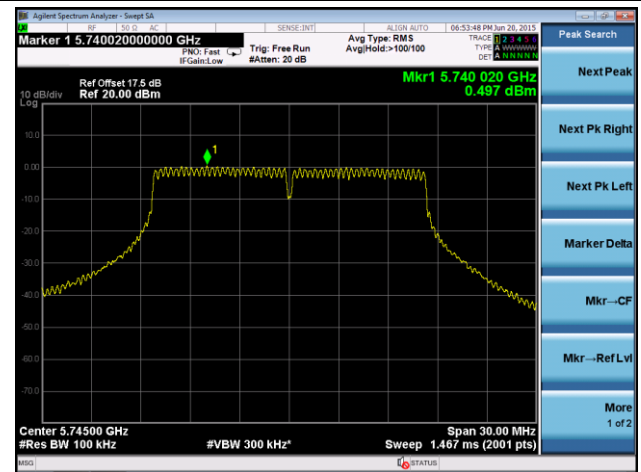
Channel 44 (5220MHz)



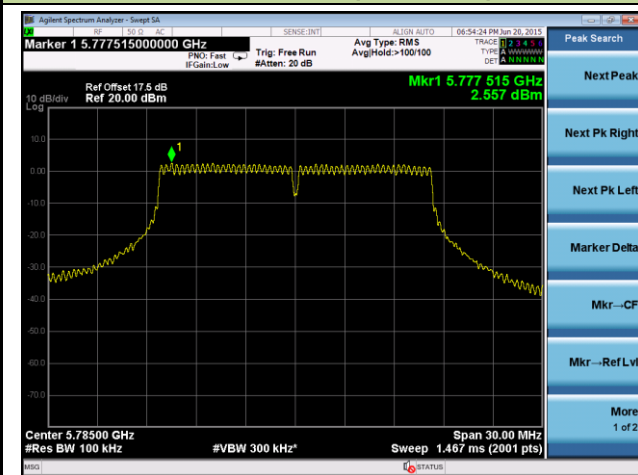
Channel 48 (5240MHz)



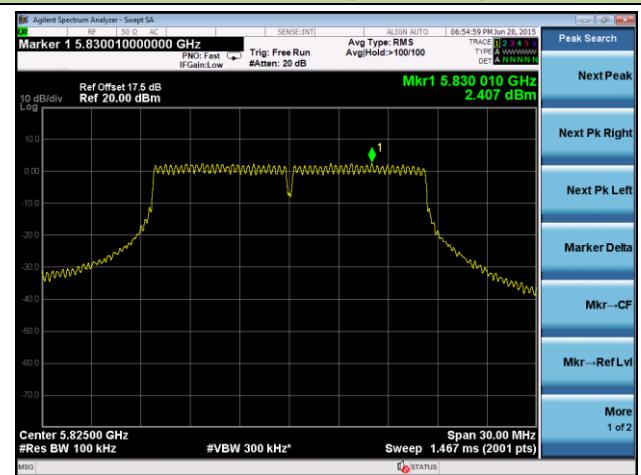
Channel 149 (5745MHz)



Channel 157 (5785MHz)

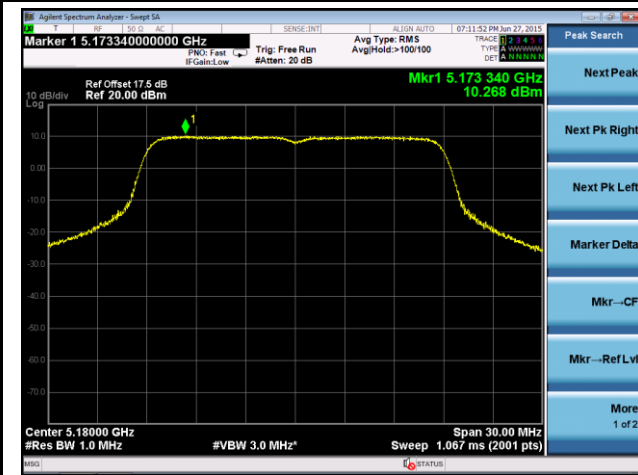


Channel 165 (5825MHz)

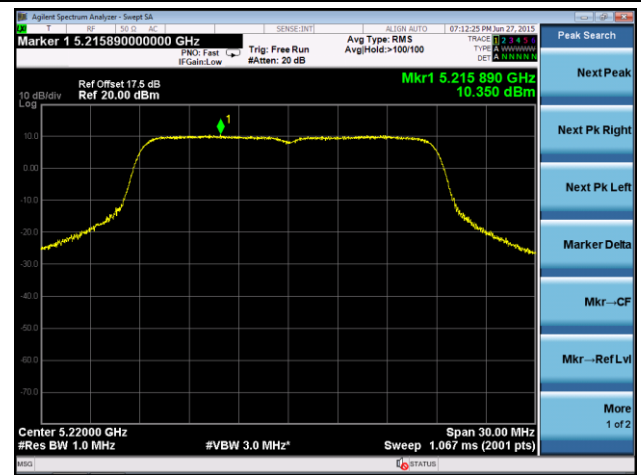


802.11n-HT20 Power Spectral Density - Ant 2

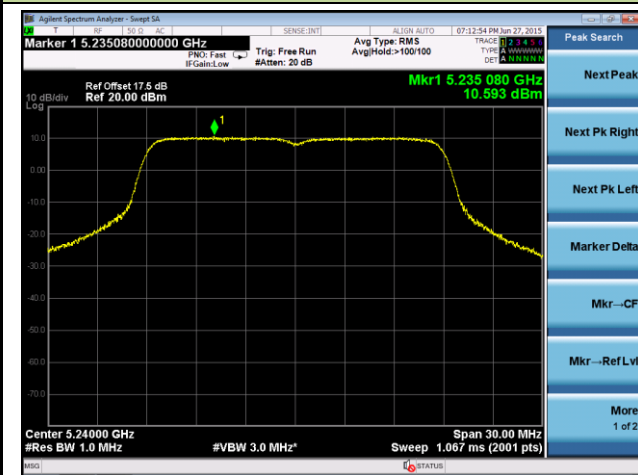
Channel 36 (5180MHz)



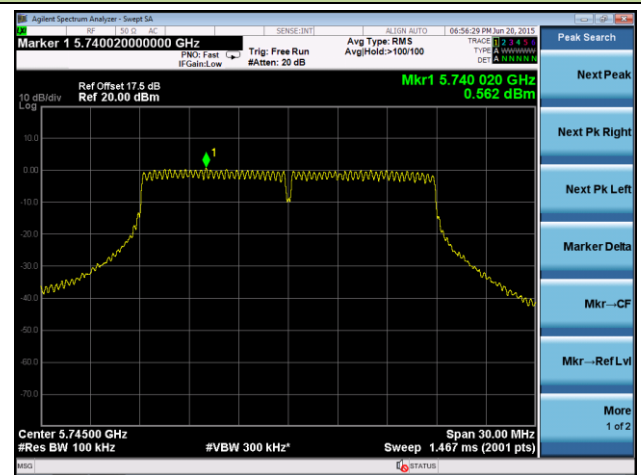
Channel 44 (5220MHz)



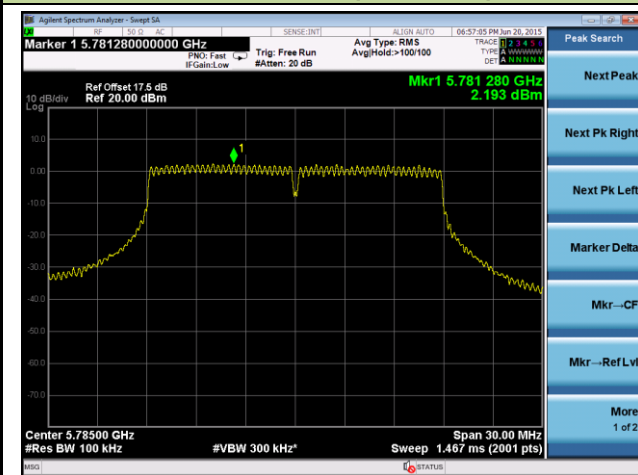
Channel 48 (5240MHz)



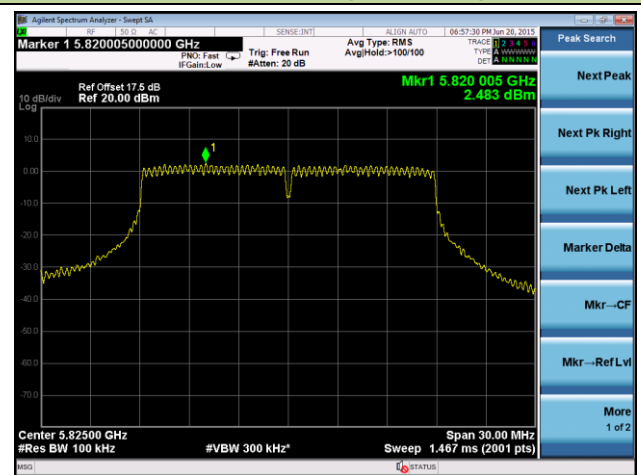
Channel 149 (5745MHz)



Channel 157 (5785MHz)

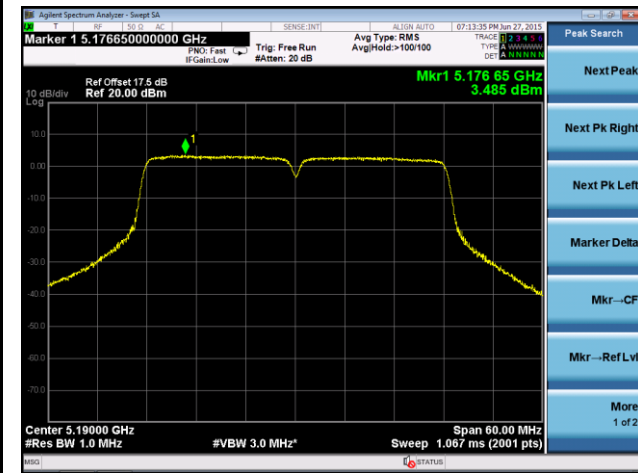


Channel 165 (5825MHz)

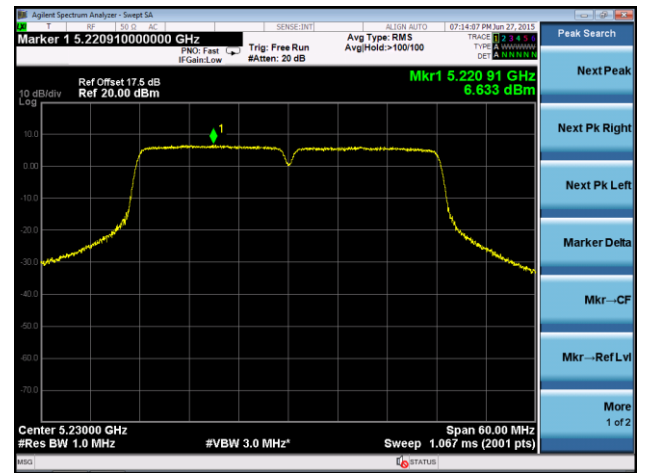


802.11n-HT40 Power Spectral Density - Ant 2

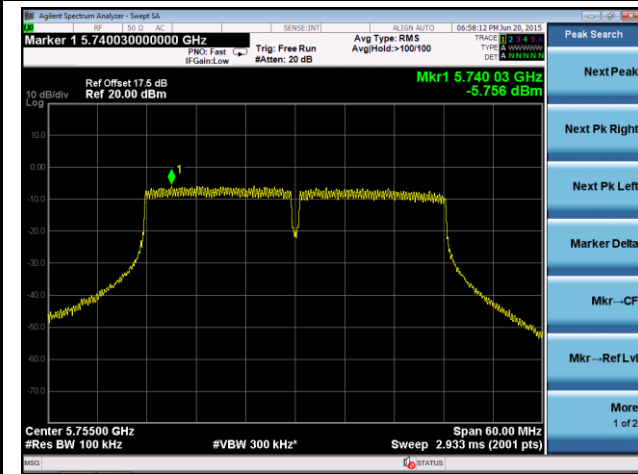
Channel 38 (5190MHz)



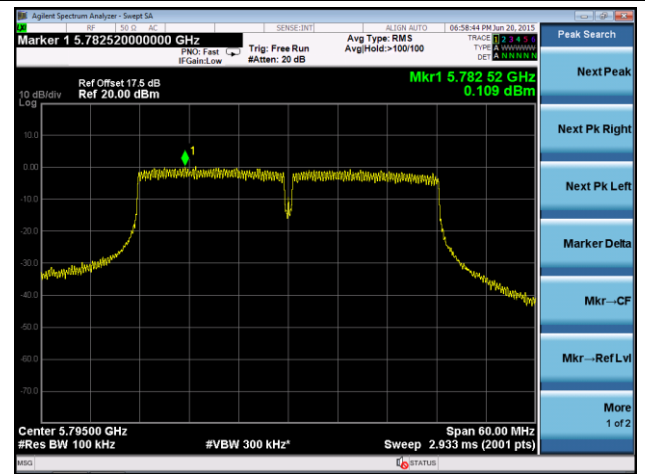
Channel 46 (5230MHz)

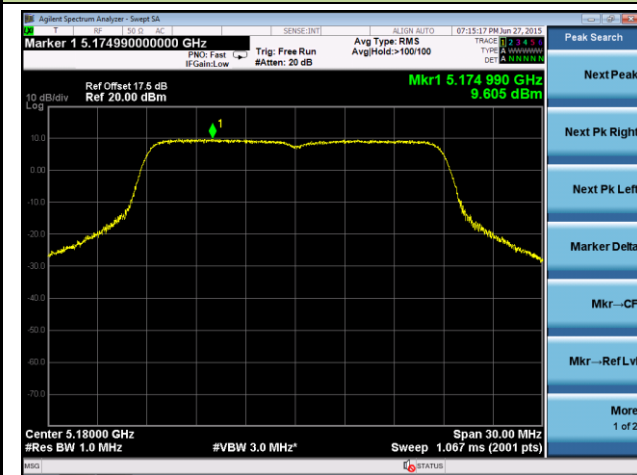
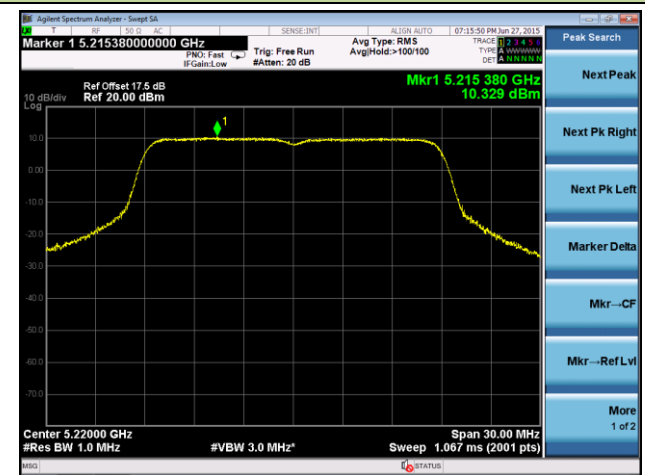
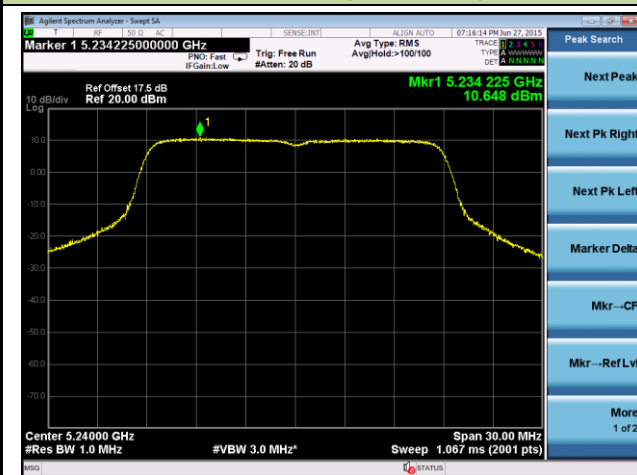
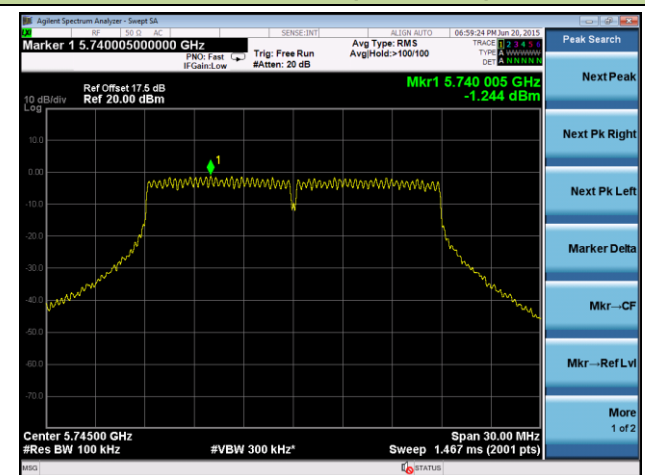
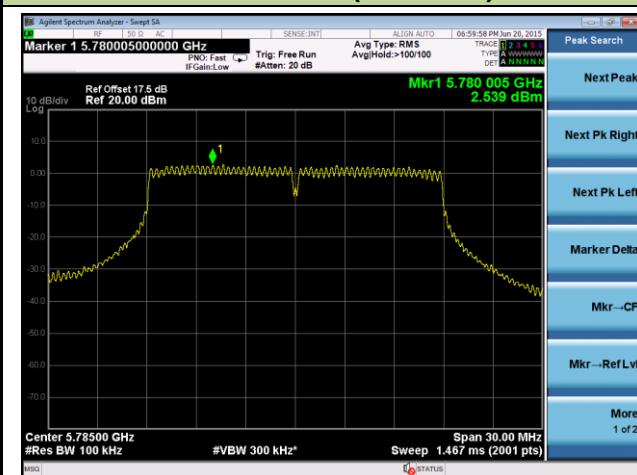
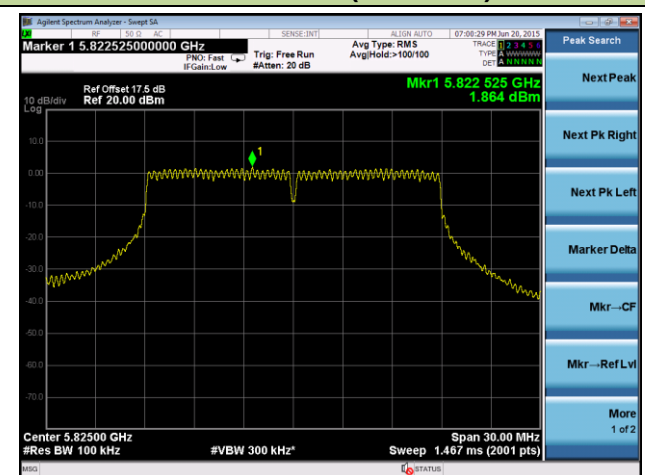


Channel 151 (5755MHz)



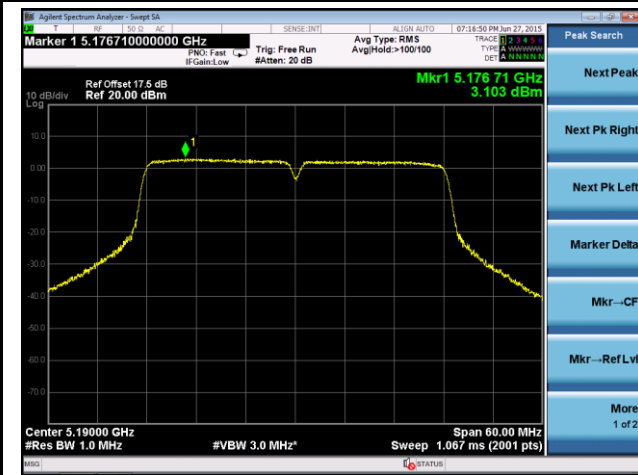
Channel 159 (5795MHz)



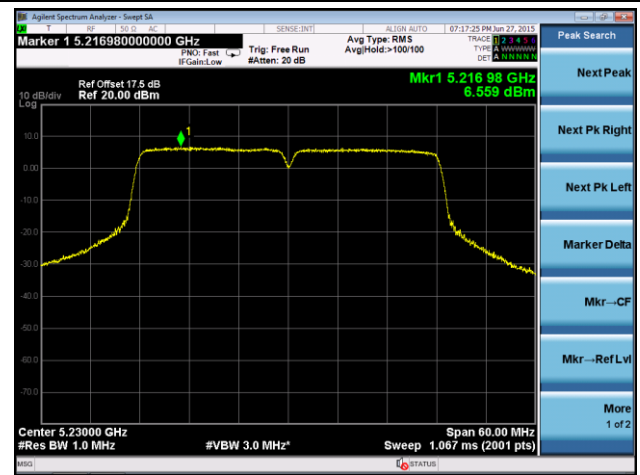
802.11ac-VHT20 Power Spectral Density - Ant 2
Channel 36 (5180MHz)

Channel 44 (5220MHz)

Channel 48 (5240MHz)

Channel 149 (5745MHz)

Channel 157 (5785MHz)

Channel 165 (5825MHz)


802.11ac-VHT40 Power Spectral Density - Ant 2

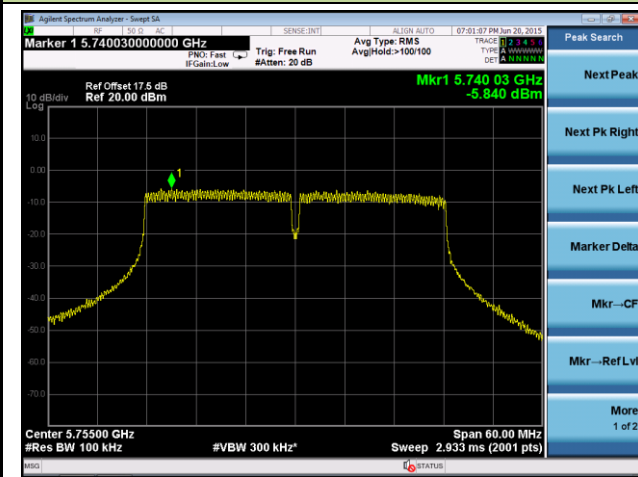
Channel 38 (5190MHz)



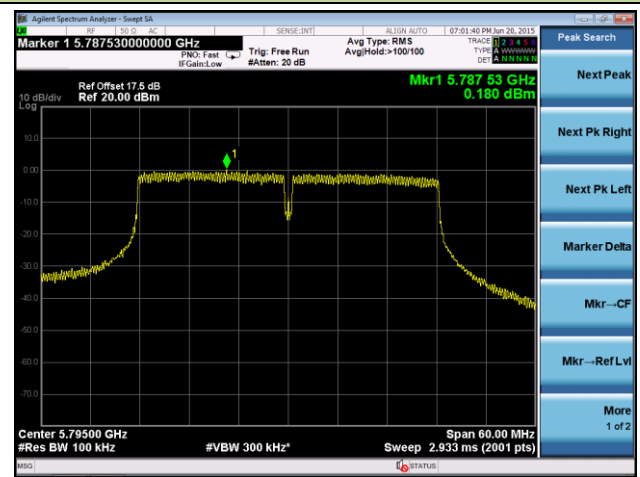
Channel 46 (5230MHz)



Channel 151 (5755MHz)

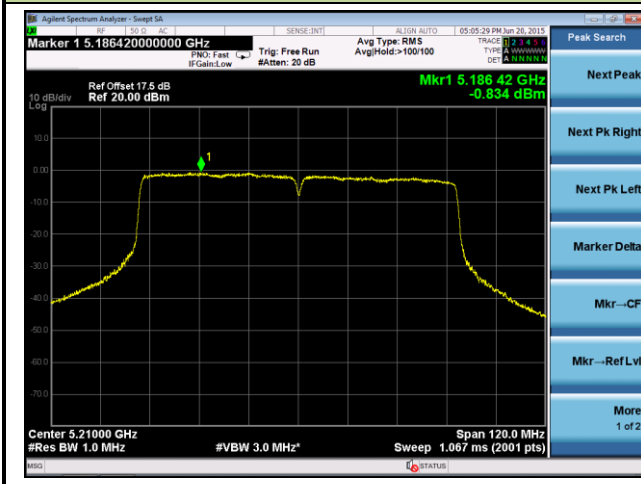


Channel 159 (5795MHz)

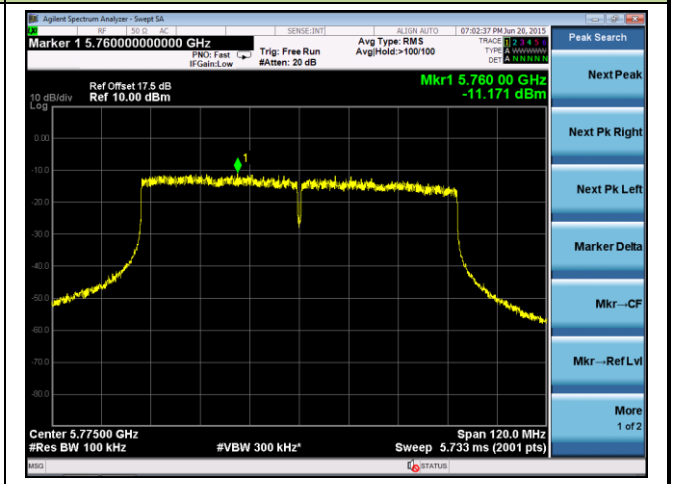


802.11ac-VHT80 Power Spectral Density - Ant 2

Channel 42 (5210MHz)

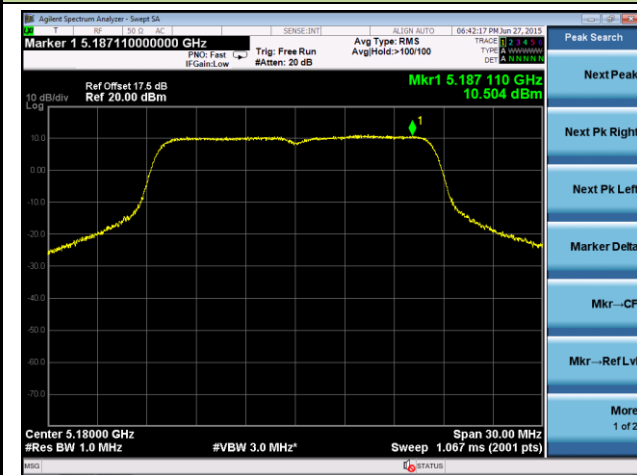


Channel 155 (5775MHz)

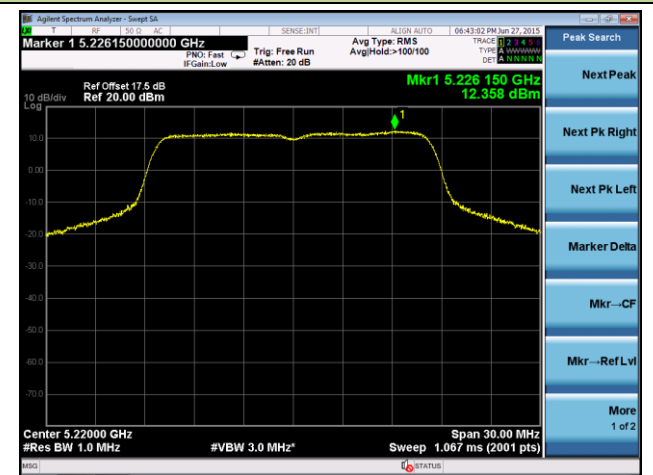


802.11a Power Spectral Density - Ant 1 / Ant 1 + 2

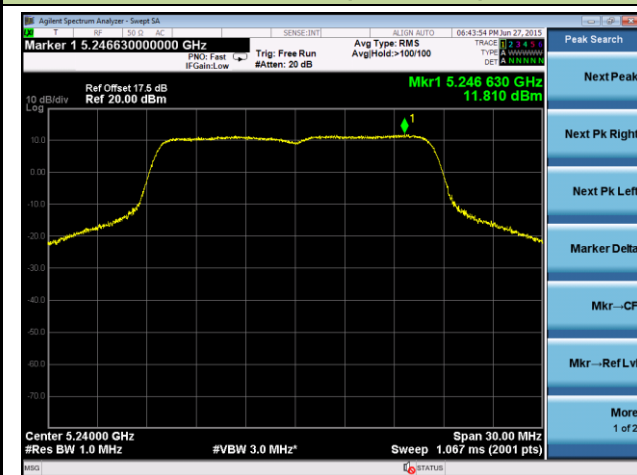
Channel 36 (5180MHz)



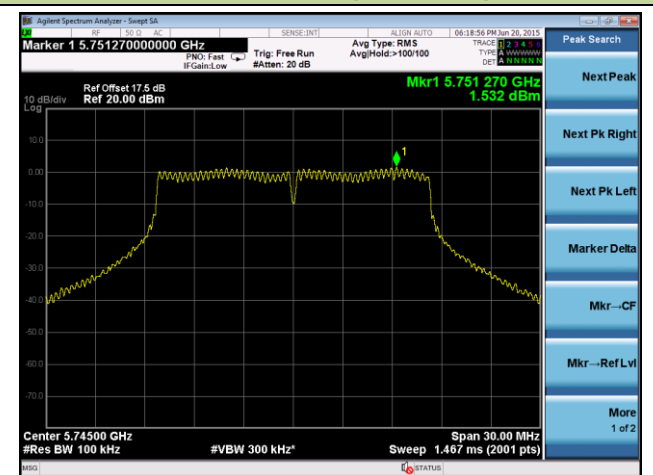
Channel 44 (5220MHz)



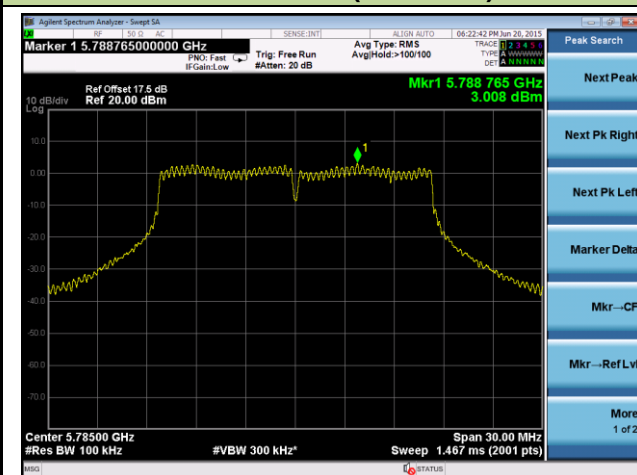
Channel 48 (5240MHz)



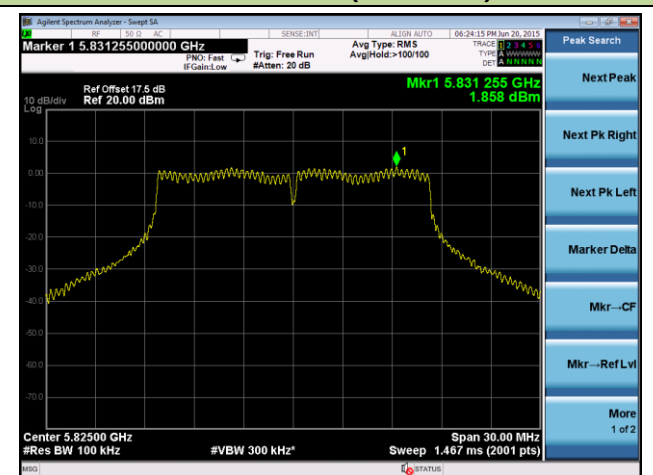
Channel 149 (5745MHz)



Channel 157 (5785MHz)

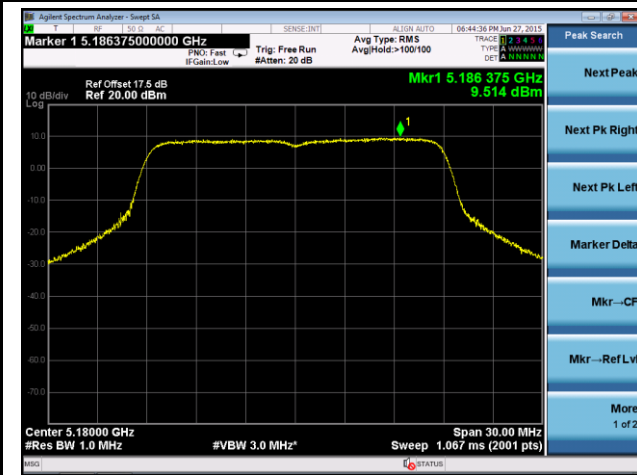


Channel 165 (5825MHz)

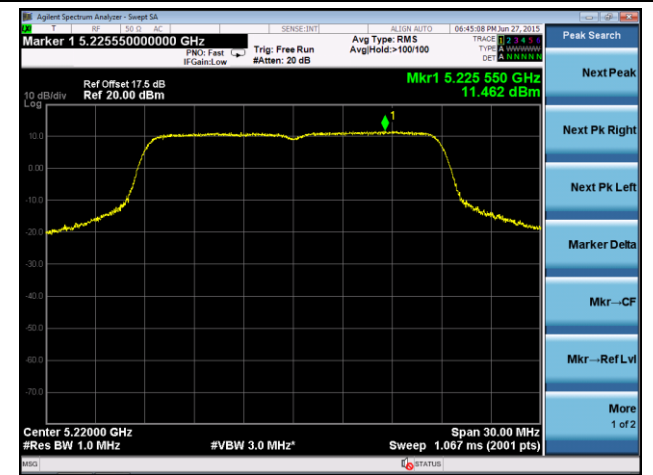


802.11n-HT20 Power Spectral Density - Ant 1 / Ant 1 + 2

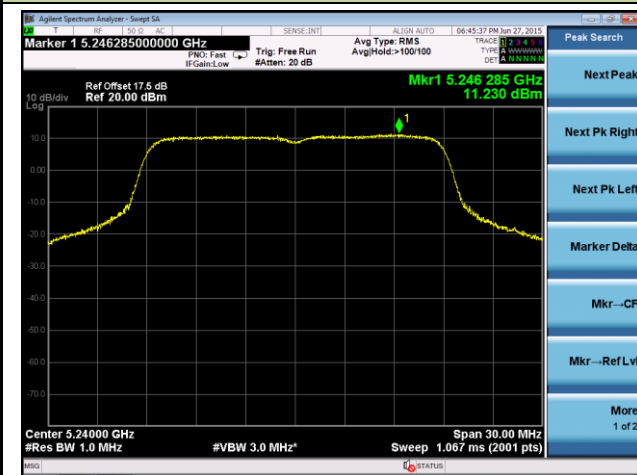
Channel 36 (5180MHz)



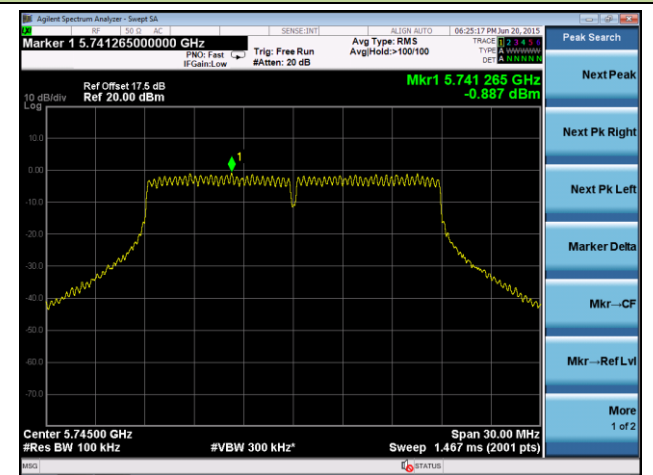
Channel 44 (5220MHz)



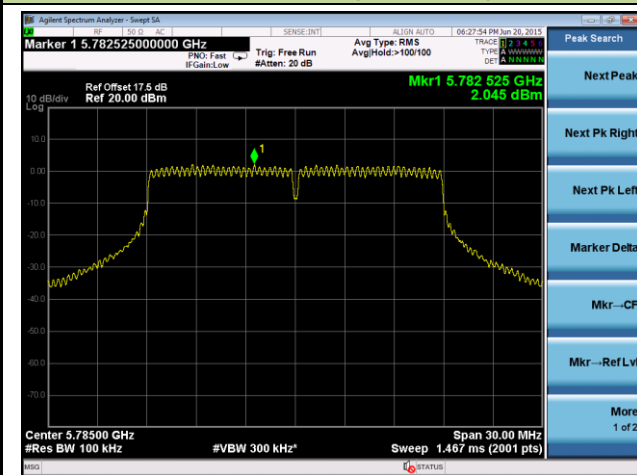
Channel 48 (5240MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

