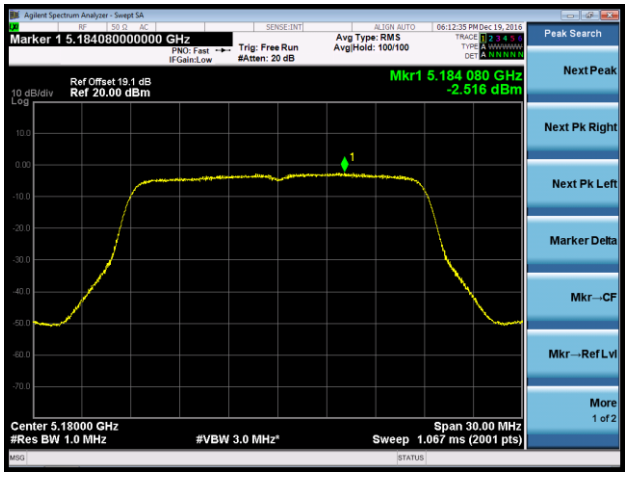
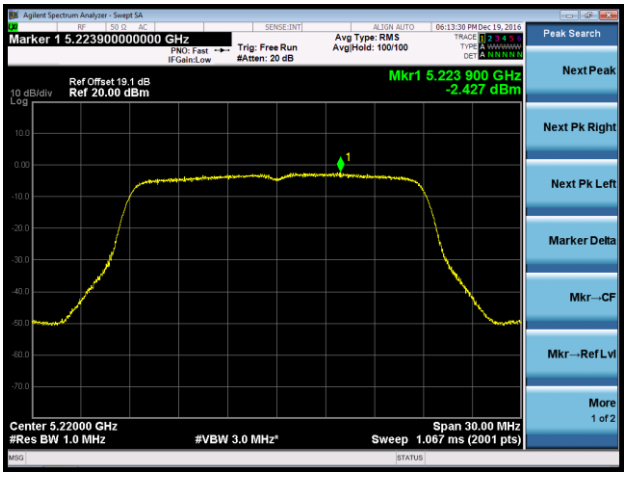
802.11ac-VHT20 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

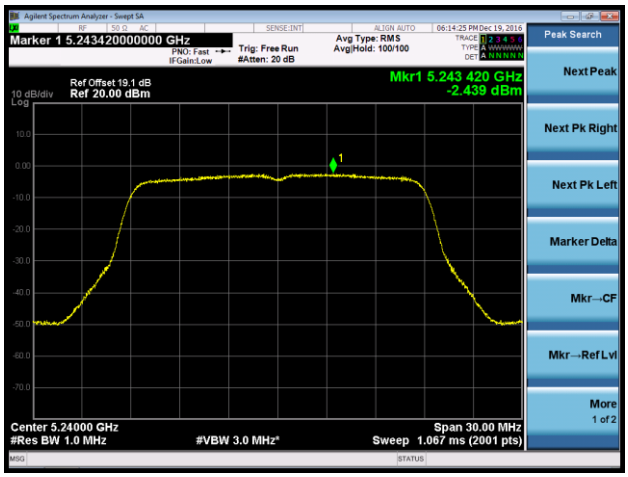
Channel 36 (5180MHz)



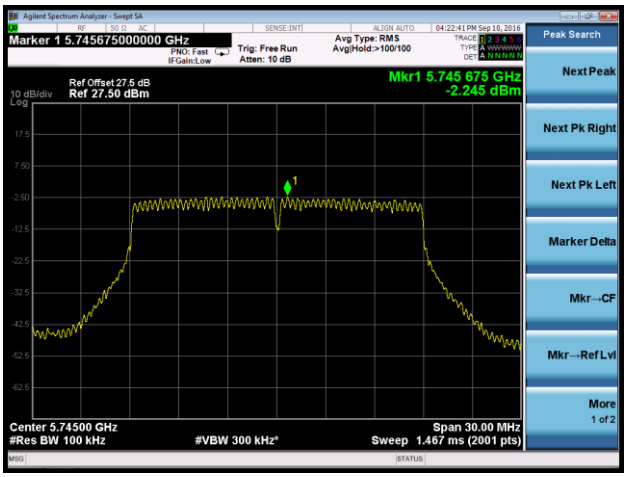
Channel 44 (5220MHz)



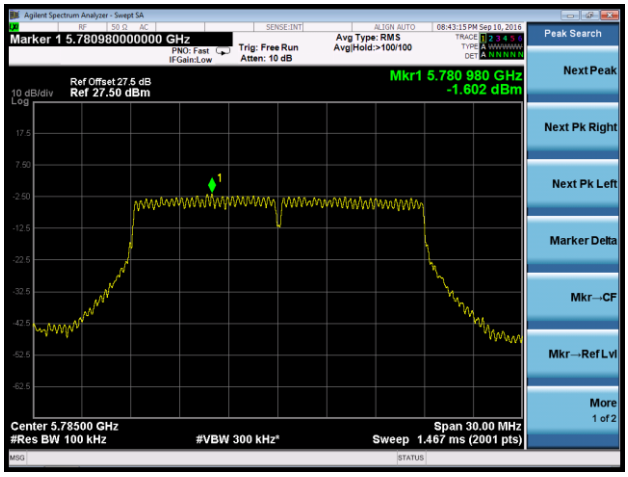
Channel 48 (5240MHz)



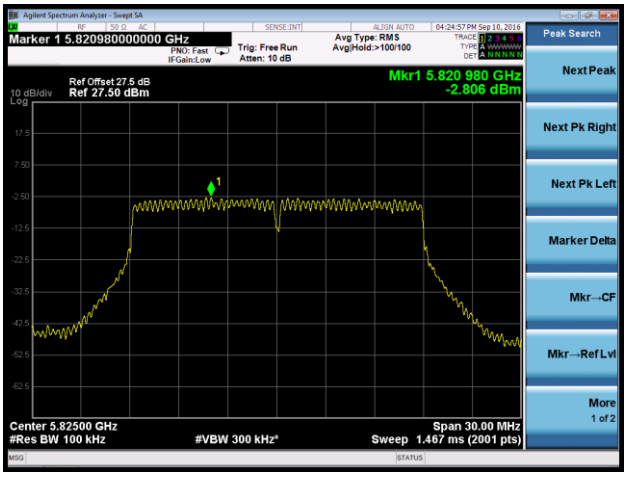
Channel 149 (5745MHz)

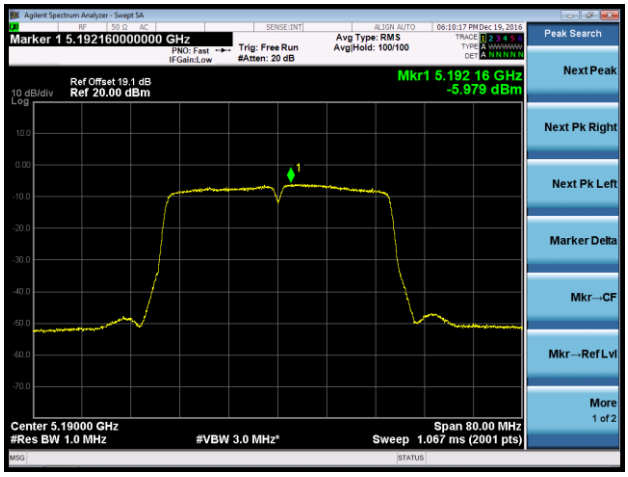
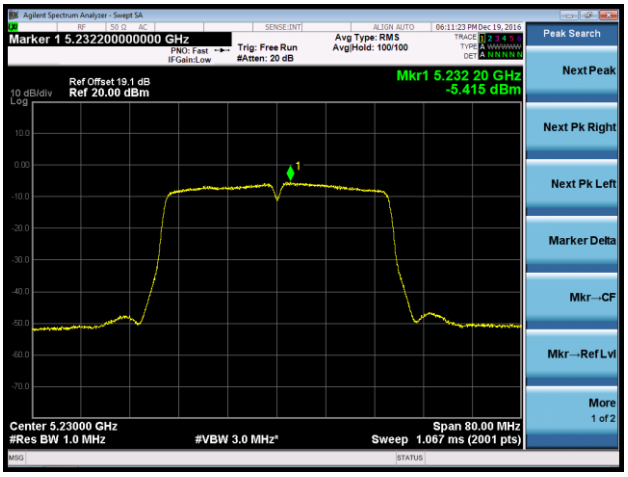
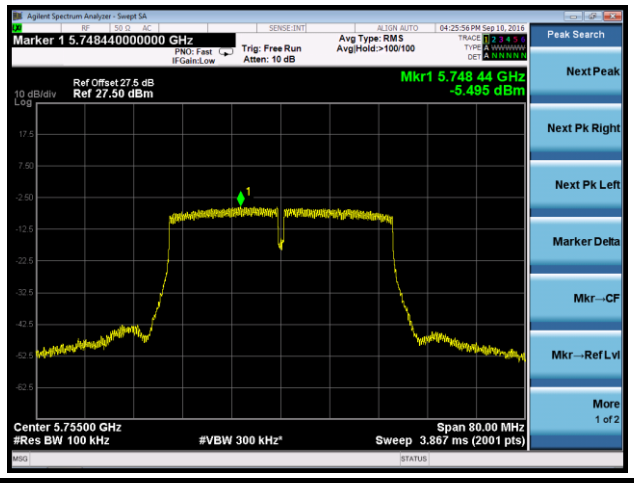
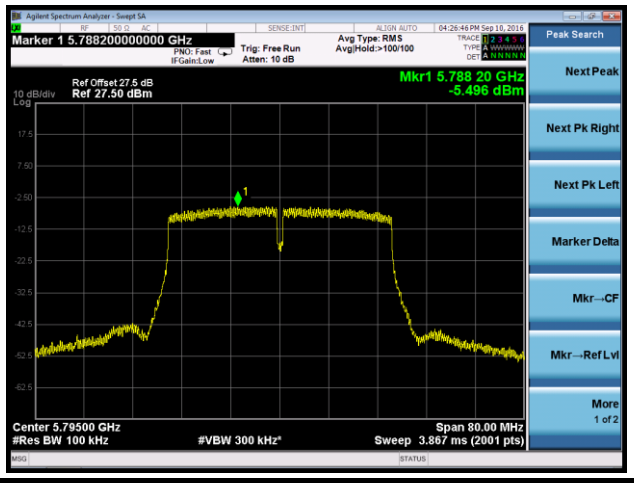


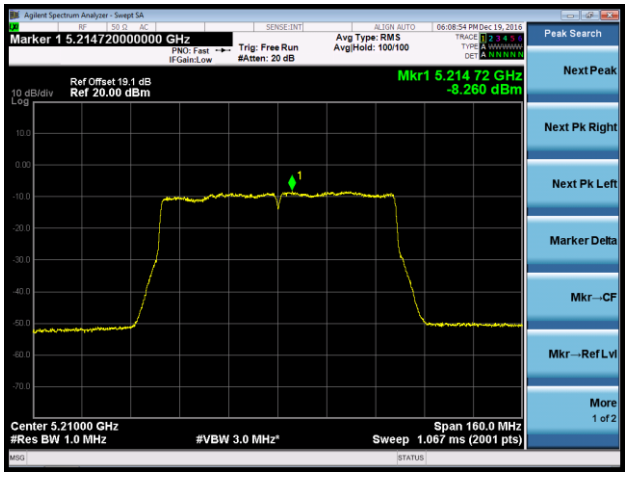
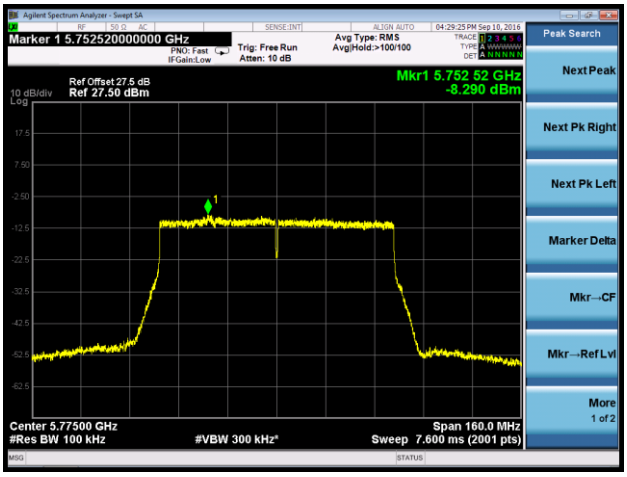
Channel 157 (5785MHz)

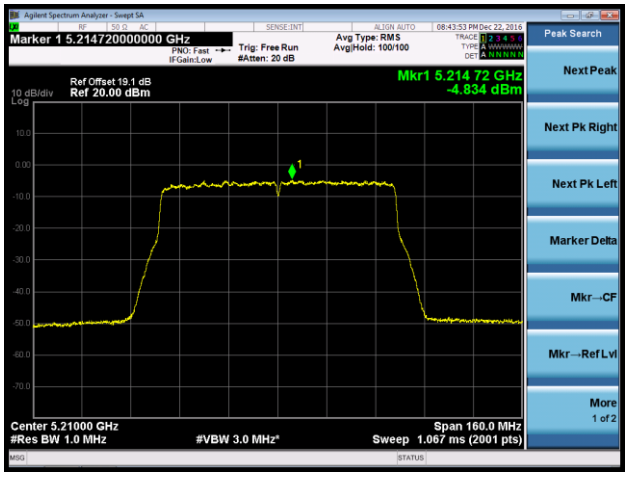
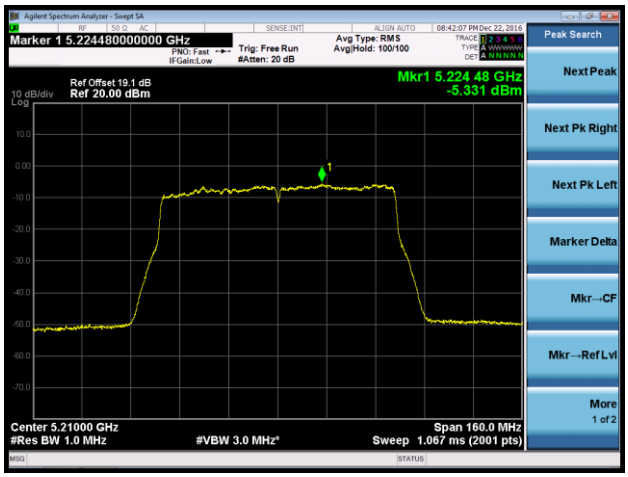


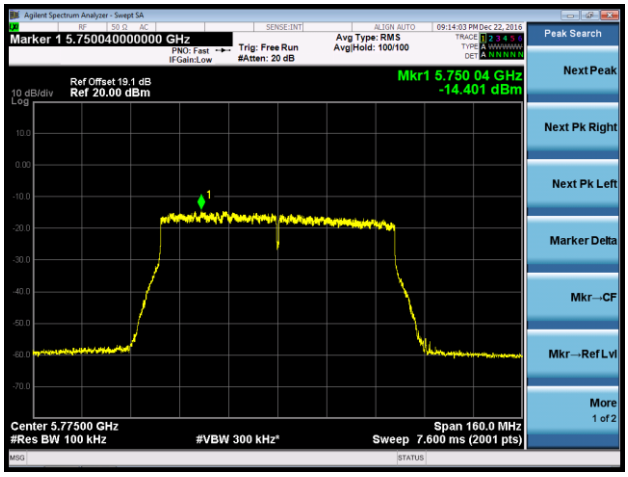
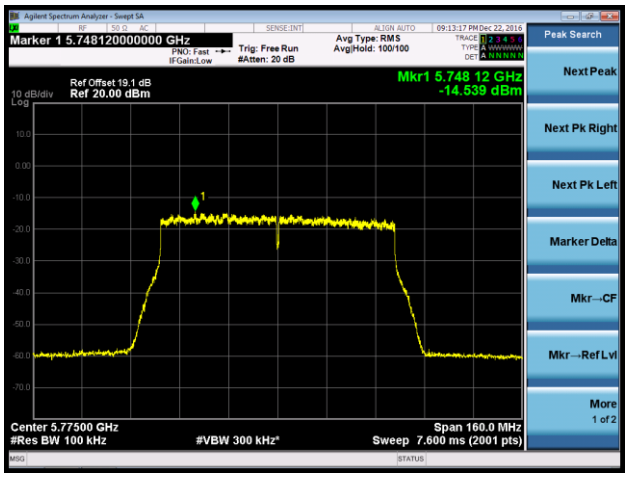
Channel 165 (5825MHz)



802.11ac-VHT40 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3	
Channel 38 (5190MHz)	**Channel 46 (5230MHz)**
	
Channel 151 (5755MHz)	**Channel 159 (5795MHz)**
	

802.11ac-VHT80 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3	
Channel 42 (5210MHz)	**Channel 155 (5775MHz)**
	

802.11ac-VHT 80 + 80 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3	
Channel 42 (5210MHz)	
	
802.11ac-VHT 80 + 80 Power Spectral Density - Ant 1 / Ant 0 + 1 + 2 + 3	
Channel 42 (5210MHz)	
	

802.11ac-VHT 80 + 80 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3	
Channel 155 (5775MHz)	
	
802.11ac-VHT 80 + 80 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3	
Channel 155 (5775MHz)	
	

Power Spectral Density Measurement Limit of FPMI2458-DP2RPSMA Antenna

Frequency Band (MHz)	Per Chain Max Antenna Gain (dBi)				CDD & Beam Forming Directional Gain (dBi)	Limit of SISO (dBm/MHz)				Limit of MIMO (dBm/MHz)
	Ant 0	Ant 1	Ant 2	Ant 3		Ant 0	Ant 1	Ant 2	Ant 3	Ant 0+1+2+3
5150 ~ 5250	5.79	5.57	--	--	8.69	17.00	17.00	--	--	14.31
	--	--	5.79	5.57	8.69	--	--	17.00	17.00	14.31
Frequency Band (MHz)	Per Chain Max Antenna Gain (dBi)				CDD & Beam Forming Directional Gain (dBi)	Limit of SISO (dBm/500kHz)				Limit of MIMO (dBm/500kHz)
	Ant 0	Ant 1	Ant 2	Ant 3		Ant 0	Ant 1	Ant 2	Ant 3	Ant 0+1+2+3
5725 ~ 5850	5.24	5.09	--	--	8.18	30.00	30.00	--	--	27.82
	--	--	5.24	5.09	8.18	--	--	30.00	30.00	27.82

Product	US WI-FI AP 4X4 OD ext. antenna	Temperature	25°C
Test Engineer	Johnson Liao	Relative Humidity	50 ~ 58%
Test Site	SR2	Test Date	2016/12/19
Test Item	Power Spectral Density	Antenna Model No.	FPMI2458-DP2RPSMA

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	PSD (dBm/ MHz)	Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/ MHz)	Result
Ant 0								
11a	6	36	5180	3.05	97.18	3.17	≤ 17.00	Pass
11a	6	44	5220	3.82	97.18	3.94	≤ 17.00	Pass
11a	6	48	5240	3.43	97.18	3.55	≤ 17.00	Pass
11n-HT20	6.5	36	5180	3.05	98.81	3.10	≤ 17.00	Pass
11n-HT20	6.5	44	5220	3.31	98.81	3.36	≤ 17.00	Pass
11n-HT20	6.5	48	5240	3.57	98.81	3.62	≤ 17.00	Pass
11n-HT40	13.5	38	5190	0.33	97.55	0.44	≤ 17.00	Pass
11n-HT40	13.5	46	5230	0.38	97.55	0.49	≤ 17.00	Pass
11ac-VHT20	6.5	36	5180	3.19	98.82	3.24	≤ 17.00	Pass
11ac-VHT20	6.5	44	5220	3.50	98.82	3.55	≤ 17.00	Pass
11ac-VHT20	6.5	48	5240	3.58	98.82	3.63	≤ 17.00	Pass
11ac-VHT40	13.5	38	5190	0.01	97.40	0.12	≤ 17.00	Pass
11ac-VHT40	13.5	46	5230	0.15	97.40	0.26	≤ 17.00	Pass
11ac-VHT80	29.3	42	5210	-2.45	94.30	-2.20	≤ 17.00	Pass

Note: Total PSD (dBm/MHz) = Ant PSD (dBm/MHz) + 10*log(1/duty cycle)

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	PSD (dBm/ MHz)	Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/ MHz)	Result
Ant 1								
11a	6	36	5180	5.70	97.18	5.82	≤ 17.00	Pass
11a	6	44	5220	5.85	97.18	5.97	≤ 17.00	Pass
11a	6	48	5240	6.59	97.18	6.71	≤ 17.00	Pass
11n-HT20	6.5	36	5180	4.97	98.81	5.02	≤ 17.00	Pass
11n-HT20	6.5	44	5220	5.42	98.81	5.47	≤ 17.00	Pass
11n-HT20	6.5	48	5240	6.20	98.81	6.25	≤ 17.00	Pass
11n-HT40	13.5	38	5190	2.62	97.55	2.73	≤ 17.00	Pass
11n-HT40	13.5	46	5230	2.98	97.55	3.09	≤ 17.00	Pass
11ac-VHT20	6.5	36	5180	4.95	98.82	5.00	≤ 17.00	Pass
11ac-VHT20	6.5	44	5220	5.41	98.82	5.46	≤ 17.00	Pass
11ac-VHT20	6.5	48	5240	6.26	98.82	6.31	≤ 17.00	Pass
11ac-VHT40	13.5	38	5190	2.49	97.40	2.60	≤ 17.00	Pass
11ac-VHT40	13.5	46	5230	3.08	97.40	3.19	≤ 17.00	Pass
11ac-VHT80	29.3	42	5210	0.22	94.30	0.47	≤ 17.00	Pass

Note: Total PSD (dBm/MHz) = Ant PSD (dBm/MHz) + 10*log(1/duty cycle)

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	PSD (dBm/ MHz)	Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/ MHz)	Result
Ant 2								
11a	6	36	5180	2.66	97.18	2.78	≤ 17.00	Pass
11a	6	44	5220	3.01	97.18	3.13	≤ 17.00	Pass
11a	6	48	5240	3.23	97.18	3.35	≤ 17.00	Pass
11n-HT20	6.5	36	5180	2.06	98.81	2.11	≤ 17.00	Pass
11n-HT20	6.5	44	5220	3.14	98.81	3.19	≤ 17.00	Pass
11n-HT20	6.5	48	5240	3.37	98.81	3.42	≤ 17.00	Pass
11n-HT40	13.5	38	5190	0.07	97.55	0.18	≤ 17.00	Pass
11n-HT40	13.5	46	5230	0.49	97.55	0.60	≤ 17.00	Pass
11ac-VHT20	6.5	36	5180	3.14	98.82	3.19	≤ 17.00	Pass
11ac-VHT20	6.5	44	5220	3.71	98.82	3.76	≤ 17.00	Pass
11ac-VHT20	6.5	48	5240	3.88	98.82	3.93	≤ 17.00	Pass
11ac-VHT40	13.5	38	5190	0.62	97.40	0.73	≤ 17.00	Pass
11ac-VHT40	13.5	46	5230	0.56	97.40	0.67	≤ 17.00	Pass
11ac-VHT80	29.3	42	5210	-2.54	94.30	-2.29	≤ 17.00	Pass
Ant 3								
11a	6	36	5180	5.28	97.18	5.40	≤ 17.00	Pass
11a	6	44	5220	5.91	97.18	6.03	≤ 17.00	Pass
11a	6	48	5240	6.08	97.18	6.20	≤ 17.00	Pass
11n-HT20	6.5	36	5180	5.59	98.81	5.64	≤ 17.00	Pass
11n-HT20	6.5	44	5220	6.08	98.81	6.13	≤ 17.00	Pass
11n-HT20	6.5	48	5240	6.01	98.81	6.06	≤ 17.00	Pass
11n-HT40	13.5	38	5190	2.20	97.55	2.31	≤ 17.00	Pass
11n-HT40	13.5	46	5230	2.73	97.55	2.84	≤ 17.00	Pass
11ac-VHT20	6.5	36	5180	5.32	98.82	5.37	≤ 17.00	Pass
11ac-VHT20	6.5	44	5220	5.79	98.82	5.84	≤ 17.00	Pass
11ac-VHT20	6.5	48	5240	5.52	98.82	5.57	≤ 17.00	Pass
11ac-VHT40	13.5	38	5190	2.21	97.40	2.32	≤ 17.00	Pass
11ac-VHT40	13.5	46	5230	2.67	97.40	2.78	≤ 17.00	Pass
11ac-VHT80	29.3	42	5210	-0.29	94.30	-0.04	≤ 17.00	Pass

Note: Total PSD (dBm/MHz) = Ant PSD (dBm/MHz) + 10*log(1/duty cycle)

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/ MHz)	Ant 1 PSD (dBm/ MHz)	Ant 2 PSD (dBm/ MHz)	Ant 3 PSD (dBm/ MHz)	Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/ MHz)	Result
Ant 0 + 1 + 2 + 3											
11a	6	36	5180	0.56	0.19	--	--	97.18	3.51	≤ 14.31	Pass
11a	6	44	5220	0.80	0.10	--	--	97.18	3.60	≤ 14.31	Pass
11a	6	48	5240	1.03	0.13	--	--	97.18	3.74	≤ 14.31	Pass
11a	6	36	5180	--	--	0.58	0.36	97.18	3.61	≤ 14.31	Pass
11a	6	44	5220	--	--	0.38	0.16	97.18	3.41	≤ 14.31	Pass
11a	6	48	5240	--	--	0.19	-0.19	97.18	3.14	≤ 14.31	Pass
11n-HT20	13	36	5180	1.65	1.32	--	--	98.81	4.55	≤ 14.31	Pass
11n-HT20	13	44	5220	1.16	0.90	--	--	98.81	4.09	≤ 14.31	Pass
11n-HT20	13	48	5240	1.32	1.38	--	--	98.81	4.41	≤ 14.31	Pass
11n-HT20	13	36	5180	--	--	1.34	1.53	98.81	4.50	≤ 14.31	Pass
11n-HT20	13	44	5220	--	--	0.85	1.08	98.81	4.03	≤ 14.31	Pass
11n-HT20	13	48	5240	--	--	1.11	1.01	98.81	4.12	≤ 14.31	Pass
11n-HT40	27	38	5190	-1.23	-2.01	--	--	97.55	1.52	≤ 14.31	Pass
11n-HT40	27	46	5230	-1.35	-1.95	--	--	97.55	1.48	≤ 14.31	Pass
11n-HT40	27	38	5190	--	--	-1.47	-1.85	97.55	1.46	≤ 14.31	Pass
11n-HT40	27	46	5230	--	--	-1.69	-1.90	97.55	1.32	≤ 14.31	Pass
11ac-VHT20	13	36	5180	1.00	0.74	--	--	98.82	3.93	≤ 14.31	Pass
11ac-VHT20	13	44	5220	1.17	0.49	--	--	98.82	3.91	≤ 14.31	Pass
11ac-VHT20	13	48	5240	1.47	1.26	--	--	98.82	4.43	≤ 14.31	Pass
11ac-VHT20	13	36	5180	--	--	0.84	0.95	98.82	3.96	≤ 14.31	Pass
11ac-VHT20	13	44	5220	--	--	0.95	0.88	98.82	3.98	≤ 14.31	Pass
11ac-VHT20	13	48	5240	--	--	0.98	0.93	98.82	4.02	≤ 14.31	Pass
11ac-VHT40	27	38	5190	-1.37	-1.93	--	--	97.40	1.48	≤ 14.31	Pass
11ac-VHT40	27	46	5230	-1.05	-1.96	--	--	97.40	1.64	≤ 14.31	Pass
11ac-VHT40	27	38	5190	--	--	-1.56	-1.65	97.40	1.52	≤ 14.31	Pass
11ac-VHT40	27	46	5230	--	--	-1.89	-1.93	97.40	1.21	≤ 14.31	Pass
11ac-VHT80	58.6	42	5210	-4.06	-4.73	--	--	94.30	-1.12	≤ 14.31	Pass
11ac-VHT80	58.6	42	5210	--	--	-4.71	-5.27	94.30	-1.72	≤ 14.31	Pass

Note: Total PSD (dBm/MHz) = $10*\log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\} +$ $10*\log(1/\text{duty cycle})$

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/ MHz)	Ant 1 PSD (dBm/ MHz)	Ant 2 PSD (dBm/ MHz)	Ant 3 PSD (dBm/ MHz)	Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/ MHz)	Result
Ant 0 + 1 + 2 + 3											
11ac-VHT80+80	58.6	42	5210	-4.83	-5.33	--	--	94.30	-1.81	≤ 14.31	Pass

Note: Total PSD (dBm/MHz) = $10*\log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\} + 10*\log(1/\text{duty cycle})$

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	PSD (dBm/ 100kHz)	Duty Cycle (%)	Constant Factor	Total PSD (dBm/ 500kHz)	Limit (dBm/ 500kHz)	Result
Ant 0									
11a	6	149	5745	3.04	97.18	6.99	10.16	≤ 30.00	Pass
11a	6	157	5785	2.64	97.18	6.99	9.75	≤ 30.00	Pass
11a	6	165	5825	2.31	97.18	6.99	9.42	≤ 30.00	Pass
11n-HT20	6.5	149	5745	2.77	98.81	6.99	9.81	≤ 30.00	Pass
11n-HT20	6.5	157	5785	2.47	98.81	6.99	9.52	≤ 30.00	Pass
11n-HT20	6.5	165	5825	2.01	98.81	6.99	9.05	≤ 30.00	Pass
11n-HT40	13.5	151	5755	-0.31	97.55	6.99	6.79	≤ 30.00	Pass
11n-HT40	13.5	159	5795	-0.73	97.55	6.99	6.37	≤ 30.00	Pass
11ac-VHT20	6.5	149	5745	2.01	98.82	6.99	9.05	≤ 30.00	Pass
11ac-VHT20	6.5	157	5785	2.06	98.82	6.99	9.10	≤ 30.00	Pass
11ac-VHT20	6.5	165	5825	1.97	98.82	6.99	9.01	≤ 30.00	Pass
11ac-VHT40	13.5	151	5755	-0.55	97.40	6.99	6.56	≤ 30.00	Pass
11ac-VHT40	13.5	159	5795	-0.94	97.40	6.99	6.16	≤ 30.00	Pass
11ac-VHT80	29.3	155	5775	-3.96	94.30	6.99	3.28	≤ 30.00	Pass
Ant 1									
11a	6	149	5745	2.83	97.18	6.99	9.94	≤ 30.00	Pass
11a	6	157	5785	2.78	97.18	6.99	9.90	≤ 30.00	Pass
11a	6	165	5825	2.26	97.18	6.99	9.38	≤ 30.00	Pass
11n-HT20	6.5	149	5745	2.45	98.81	6.99	9.49	≤ 30.00	Pass
11n-HT20	6.5	157	5785	1.95	98.81	6.99	8.99	≤ 30.00	Pass
11n-HT20	6.5	165	5825	1.89	98.81	6.99	8.93	≤ 30.00	Pass
11n-HT40	13.5	151	5755	-0.24	97.55	6.99	6.86	≤ 30.00	Pass
11n-HT40	13.5	159	5795	-0.80	97.55	6.99	6.30	≤ 30.00	Pass
11ac-VHT20	6.5	149	5745	2.54	98.82	6.99	9.58	≤ 30.00	Pass
11ac-VHT20	6.5	157	5785	1.85	98.82	6.99	8.89	≤ 30.00	Pass
11ac-VHT20	6.5	165	5825	1.92	98.82	6.99	8.96	≤ 30.00	Pass
11ac-VHT40	13.5	151	5755	-0.21	97.40	6.99	6.90	≤ 30.00	Pass
11ac-VHT40	13.5	159	5795	-0.80	97.40	6.99	6.30	≤ 30.00	Pass
11ac-VHT80	29.3	155	5775	-5.37	94.30	6.99	1.87	≤ 30.00	Pass

Note: Total PSD (dBm/500kHz) = Ant PSD (dBm/100kHz) + 10*log(1/duty cycle) + Constant Factor.

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	PSD (dBm/ 100kHz)	Duty Cycle (%)	Constant Factor	Total PSD (dBm/ 500kHz)	Limit (dBm/ 500kHz)	Result
Ant 2									
11a	6	149	5745	2.81	97.18	6.99	9.92	≤ 30.00	Pass
11a	6	157	5785	2.20	97.18	6.99	9.31	≤ 30.00	Pass
11a	6	165	5825	1.85	97.18	6.99	8.97	≤ 30.00	Pass
11n-HT20	6.5	149	5745	2.61	98.81	6.99	9.65	≤ 30.00	Pass
11n-HT20	6.5	157	5785	1.67	98.81	6.99	8.71	≤ 30.00	Pass
11n-HT20	6.5	165	5825	1.19	98.81	6.99	8.23	≤ 30.00	Pass
11n-HT40	13.5	151	5755	-0.05	97.55	6.99	7.05	≤ 30.00	Pass
11n-HT40	13.5	159	5795	-0.99	97.55	6.99	6.11	≤ 30.00	Pass
11ac-VHT20	6.5	149	5745	2.12	98.82	6.99	9.17	≤ 30.00	Pass
11ac-VHT20	6.5	157	5785	1.99	98.82	6.99	9.03	≤ 30.00	Pass
11ac-VHT20	6.5	165	5825	1.32	98.82	6.99	8.36	≤ 30.00	Pass
11ac-VHT40	13.5	151	5755	0.18	97.40	6.99	7.29	≤ 30.00	Pass
11ac-VHT40	13.5	159	5795	-1.02	97.40	6.99	6.08	≤ 30.00	Pass
11ac-VHT80	29.3	155	5775	-3.85	94.30	6.99	3.40	≤ 30.00	Pass
Ant 3									
11a	6	149	5745	2.43	97.18	6.99	9.54	≤ 30.00	Pass
11a	6	157	5785	1.71	97.18	6.99	8.82	≤ 30.00	Pass
11a	6	165	5825	1.32	97.18	6.99	8.43	≤ 30.00	Pass
11n-HT20	6.5	149	5745	1.86	98.81	6.99	8.90	≤ 30.00	Pass
11n-HT20	6.5	157	5785	1.01	98.81	6.99	8.05	≤ 30.00	Pass
11n-HT20	6.5	165	5825	0.79	98.81	6.99	7.83	≤ 30.00	Pass
11n-HT40	13.5	151	5755	-0.77	97.55	6.99	6.33	≤ 30.00	Pass
11n-HT40	13.5	159	5795	-1.42	97.55	6.99	5.68	≤ 30.00	Pass
11ac-VHT20	6.5	149	5745	1.81	98.82	6.99	8.85	≤ 30.00	Pass
11ac-VHT20	6.5	157	5785	1.10	98.82	6.99	8.14	≤ 30.00	Pass
11ac-VHT20	6.5	165	5825	0.91	98.82	6.99	7.96	≤ 30.00	Pass
11ac-VHT40	13.5	151	5755	-0.83	97.40	6.99	6.27	≤ 30.00	Pass
11ac-VHT40	13.5	159	5795	-1.83	97.40	6.99	5.28	≤ 30.00	Pass
11ac-VHT80	29.3	155	5775	-4.20	94.30	6.99	3.04	≤ 30.00	Pass

Note: Total PSD (dBm/500kHz) = Ant PSD (dBm/100kHz) + 10*log(1/duty cycle) + Constant Factor.

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/ 100kHz)	Ant 1 PSD (dBm/ 100kHz)	Ant 2 PSD (dBm/ 100kHz)	Ant 3 PSD (dBm/ 100kHz)	Duty Cycle (%)	Constant Factor	Total PSD (dBm/ 500kHz)	Limit (dBm/ 500kHz)	Result
Ant 0 + 1 + 2 + 3												
11a	6	149	5745	2.70	2.44	--	--	97.18	6.99	12.69	≤ 27.82	Pass
11a	6	157	5785	2.26	2.04	--	--	97.18	6.99	12.28	≤ 27.82	Pass
11a	6	165	5825	2.44	2.01	--	--	97.18	6.99	12.35	≤ 27.82	Pass
11a	6	149	5745	--	--	3.09	2.74	97.18	6.99	13.04	≤ 27.82	Pass
11a	6	157	5785	--	--	2.09	2.12	97.18	6.99	12.23	≤ 27.82	Pass
11a	6	165	5825	--	--	1.16	1.60	97.18	6.99	11.51	≤ 27.82	Pass
11n-HT20	13	149	5745	2.03	1.77	--	--	98.81	6.99	11.95	≤ 27.82	Pass
11n-HT20	13	157	5785	1.57	1.35	--	--	98.81	6.99	11.51	≤ 27.82	Pass
11n-HT20	13	165	5825	1.68	0.78	--	--	98.81	6.99	11.31	≤ 27.82	Pass
11n-HT20	13	149	5745	--	--	2.24	1.10	98.81	6.99	11.76	≤ 27.82	Pass
11n-HT20	13	157	5785	--	--	1.71	1.44	98.81	6.99	11.63	≤ 27.82	Pass
11n-HT20	13	165	5825	--	--	1.46	0.61	98.81	6.99	11.11	≤ 27.82	Pass
11n-HT40	27	151	5755	-0.56	-1.07	--	--	97.55	6.99	9.30	≤ 27.82	Pass
11n-HT40	27	159	5795	-1.06	-1.47	--	--	97.55	6.99	8.85	≤ 27.82	Pass
11n-HT40	27	151	5755	--	--	-0.57	-1.96	97.55	6.99	8.90	≤ 27.82	Pass
11n-HT40	27	159	5795	--	--	-1.59	-1.84	97.55	6.99	8.39	≤ 27.82	Pass
11ac-VHT20	13	149	5745	2.25	1.65	--	--	98.82	6.99	12.01	≤ 27.82	Pass
11ac-VHT20	13	157	5785	1.69	1.57	--	--	98.82	6.99	11.68	≤ 27.82	Pass
11ac-VHT20	13	165	5825	1.54	1.11	--	--	98.82	6.99	11.38	≤ 27.82	Pass
11ac-VHT20	13	149	5745	--	--	2.91	2.27	98.82	6.99	12.66	≤ 27.82	Pass
11ac-VHT20	13	157	5785	--	--	2.31	1.75	98.82	6.99	12.09	≤ 27.82	Pass
11ac-VHT20	13	165	5825	--	--	1.20	1.48	98.82	6.99	11.39	≤ 27.82	Pass
11ac-VHT40	27	151	5755	-0.78	-1.19	--	--	97.40	6.99	9.13	≤ 27.82	Pass
11ac-VHT40	27	159	5795	-1.28	-1.75	--	--	97.40	6.99	8.61	≤ 27.82	Pass
11ac-VHT40	27	151	5755	--	--	-1.04	-1.67	97.40	6.99	8.77	≤ 27.82	Pass
11ac-VHT40	27	159	5795	--	--	-1.70	-1.99	97.40	6.99	8.27	≤ 27.82	Pass
11ac-VHT80	58.6	155	5775	-4.31	-4.72	--	--	94.30	6.99	5.75	≤ 27.82	Pass
11ac-VHT80	58.6	155	5775	--	--	-4.95	-4.82	94.30	6.99	5.37	≤ 27.82	Pass

Note 1: Total PSD (dBm/500kHz) = $10*\log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\} + 10*\log(1/\text{duty cycle}) + \text{Constant Factor}$.

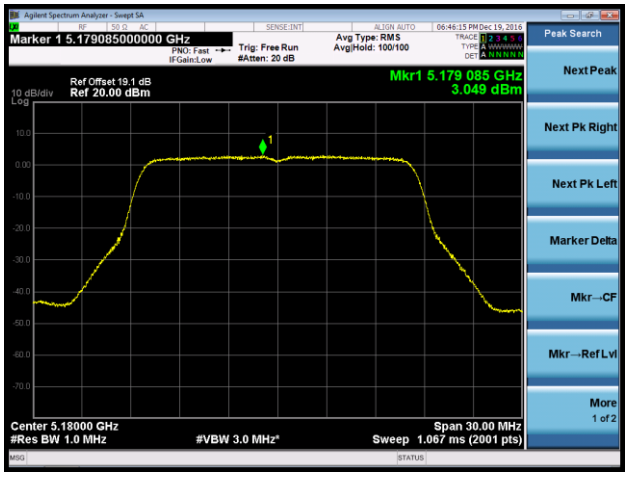
Note 1: Total PSD (dBm/500kHz) = $10*\log\{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\} + 10*\log(1/\text{duty cycle}) + \text{Constant Factor}$.

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/ 100kHz)	Ant 1 PSD (dBm/ 100kHz)	Ant 2 PSD (dBm/ 100kHz)	Ant 3 PSD (dBm/ 100kHz)	Duty Cycle (%)	Constant Factor	Total PSD (dBm/ 500kHz)	Limit (dBm/ 500kHz)	Result
Ant 0 + 1 + 2 + 3												
11ac-VHT80+80	58.6	155	5775	--	--	-14.40	-14.54	94.30	6.99	-4.21	≤ 27.82	Pass

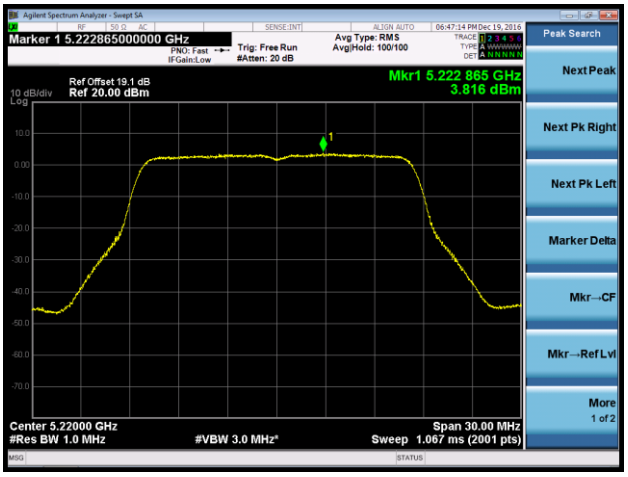
Note: Total PSD (dBm/MHz) = $10*\log\{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\} + 10*\log(1/\text{duty cycle}) + \text{Constant Factor}$

802.11a Power Spectral Density - Ant 0

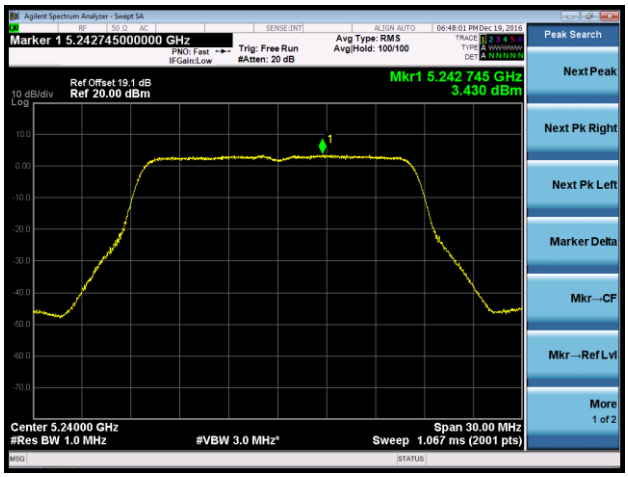
Channel 36 (5180MHz)



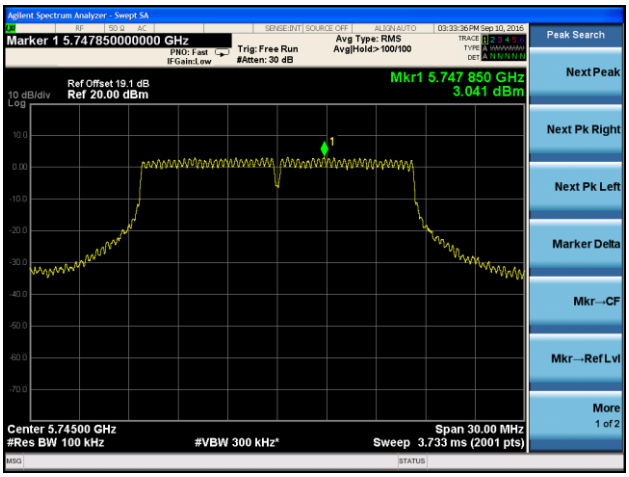
Channel 44 (5220MHz)



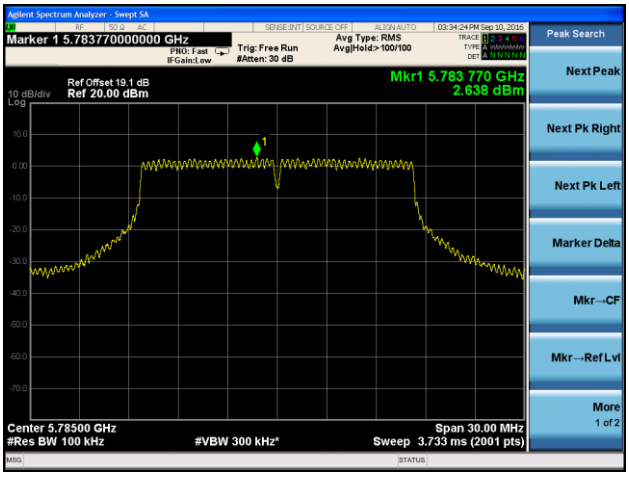
Channel 48 (5240MHz)



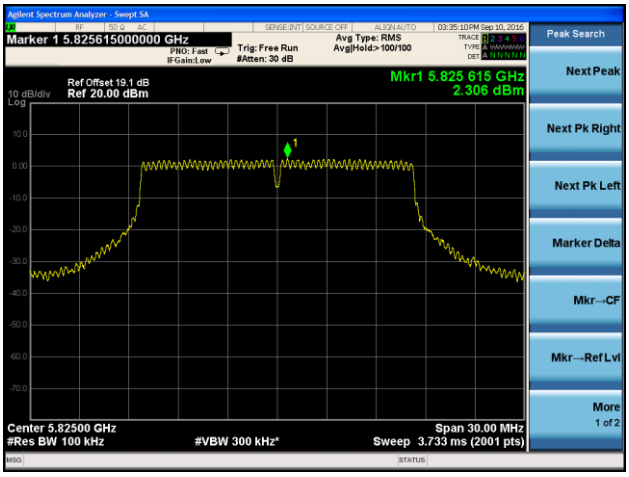
Channel 149 (5745MHz)



Channel 157 (5785MHz)

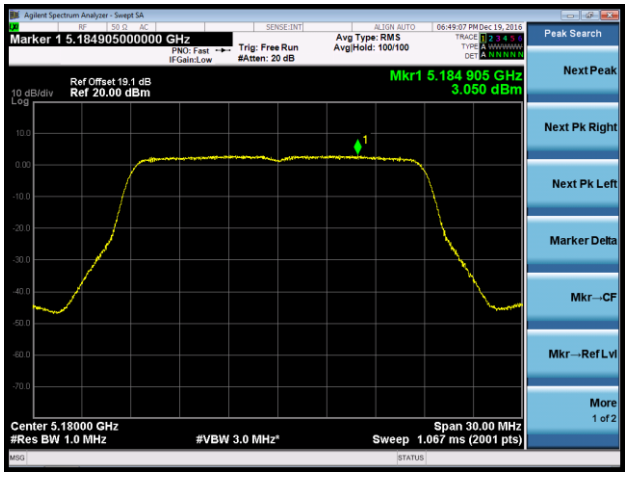


Channel 165 (5825MHz)

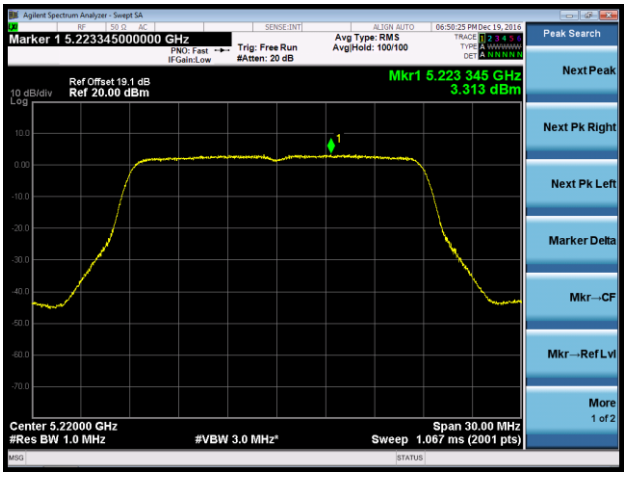


802.11n-HT20 Power Spectral Density - Ant 0

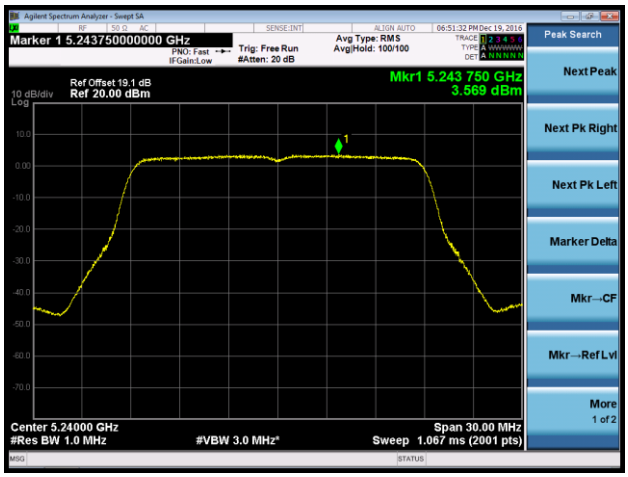
Channel 36 (5180MHz)



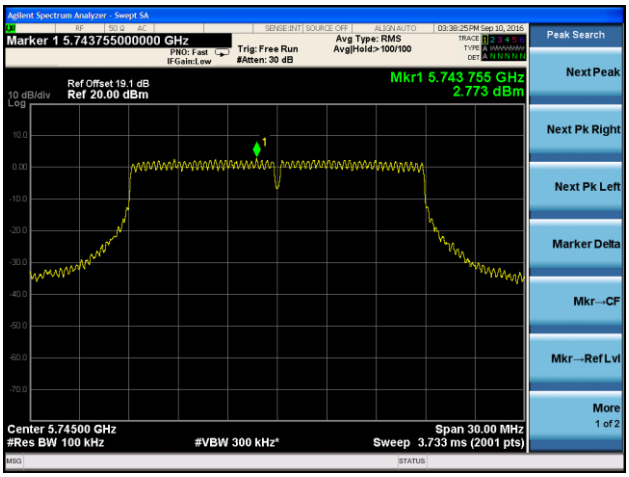
Channel 44 (5220MHz)



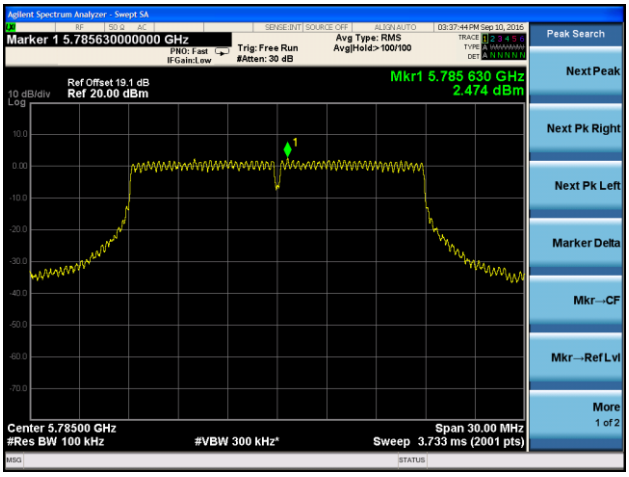
Channel 48 (5240MHz)



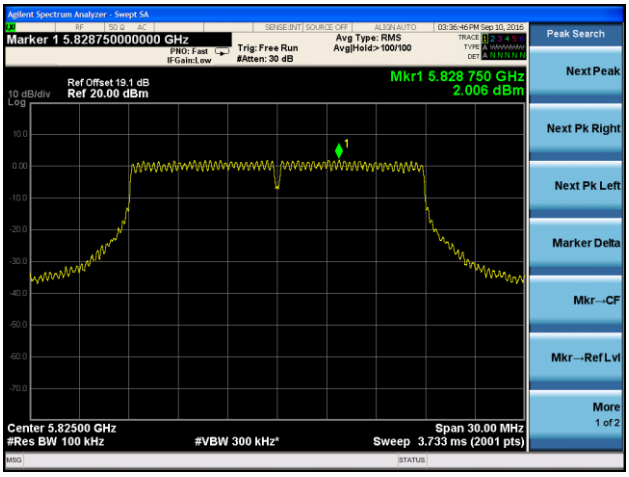
Channel 149 (5745MHz)

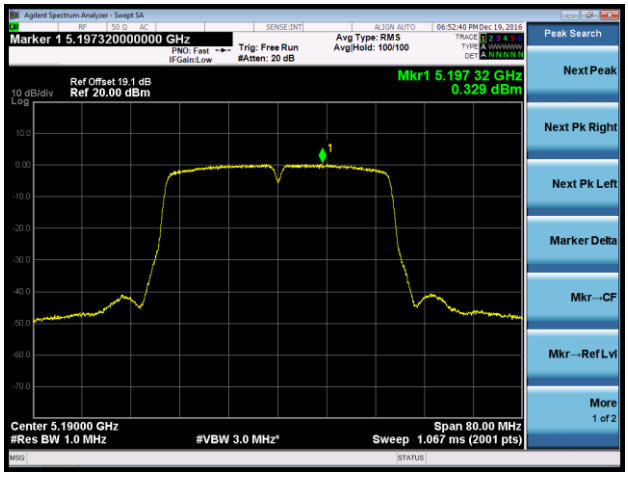
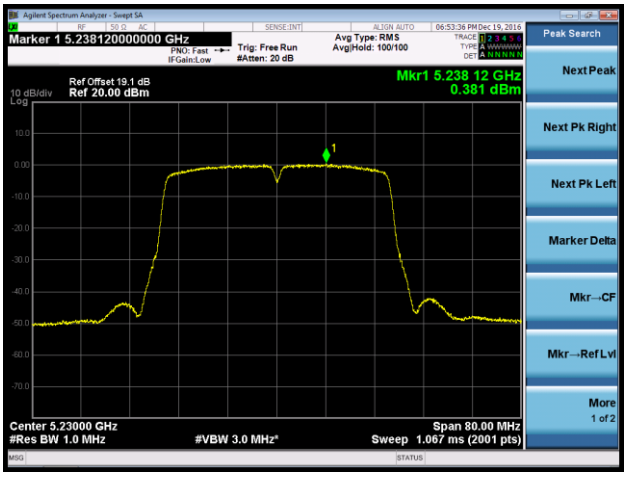
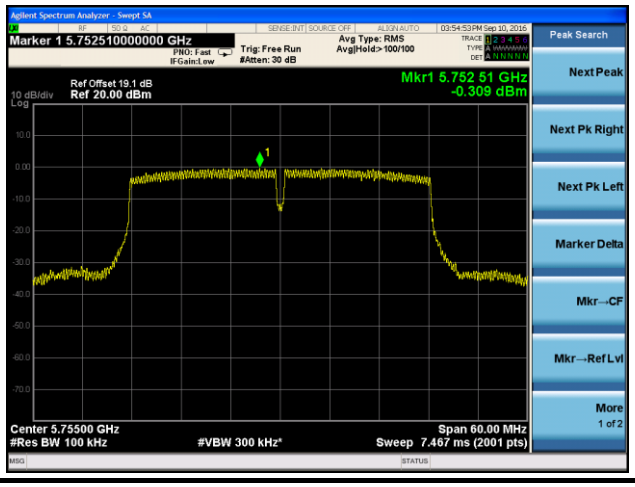
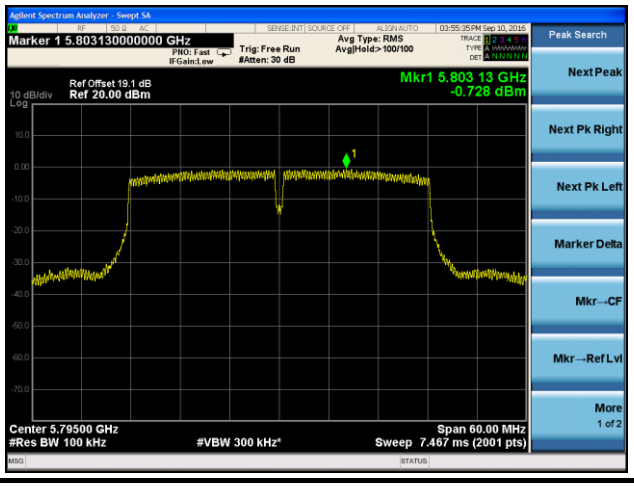


Channel 157 (5785MHz)



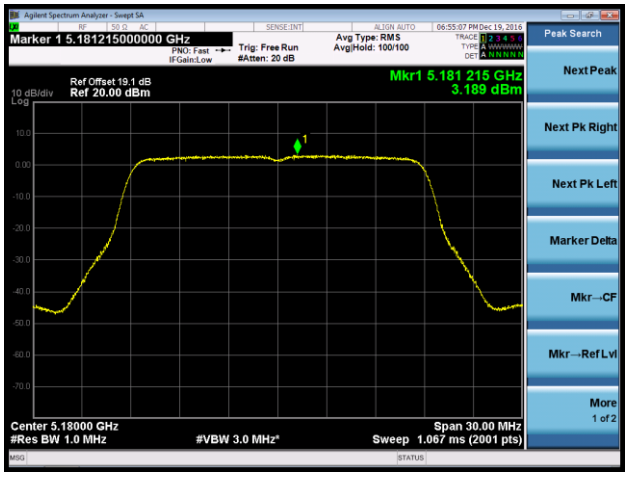
Channel 165 (5825MHz)



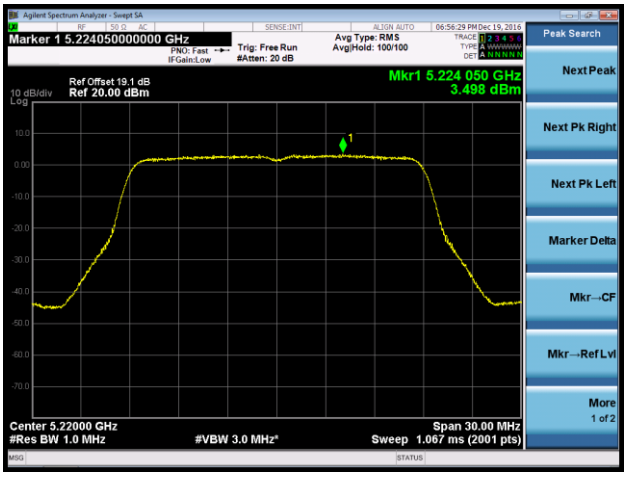
802.11n-HT40 Power Spectral Density - Ant 0	
Channel 38 (5190MHz)	**Channel 46 (5230MHz)**
	
Channel 151 (5755MHz)	**Channel 159 (5795MHz)**
	

802.11ac-VHT20 Power Spectral Density - Ant 0

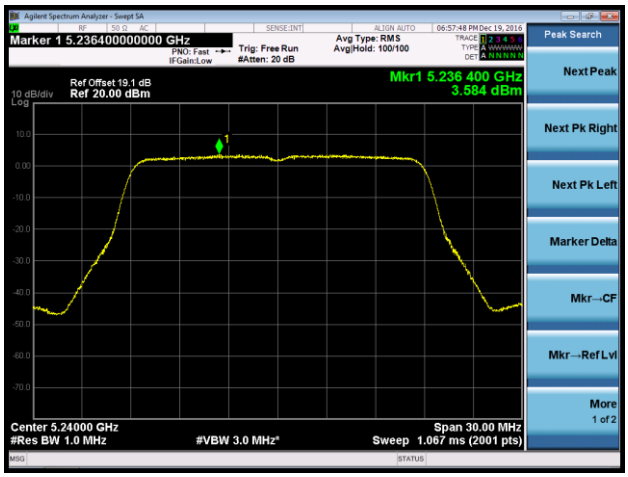
Channel 36 (5180MHz)



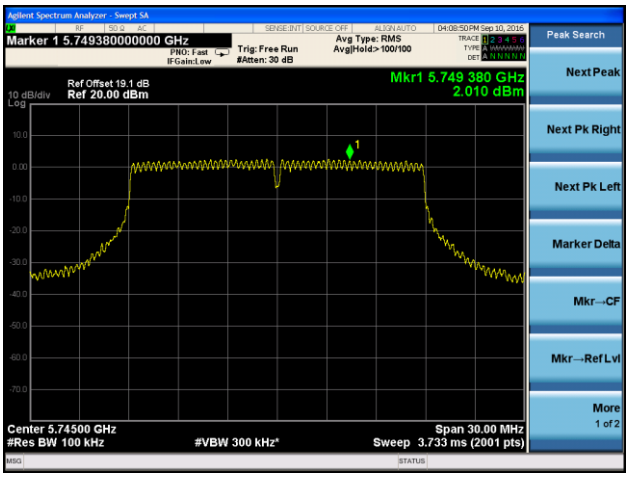
Channel 44 (5220MHz)



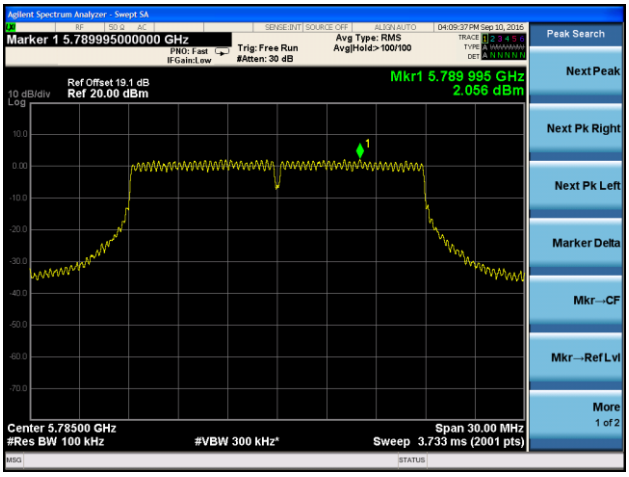
Channel 48 (5240MHz)



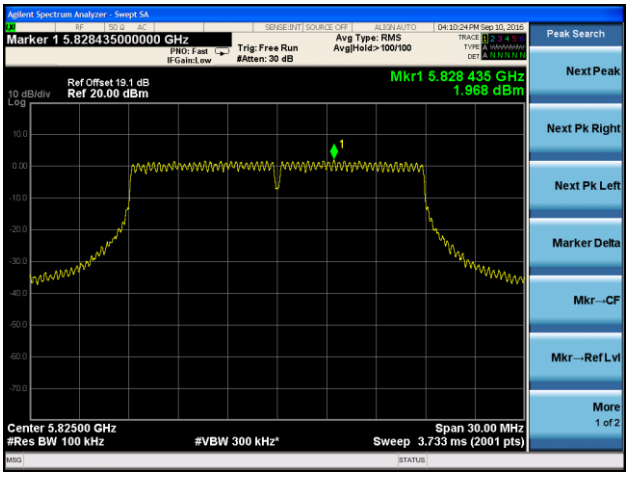
Channel 149 (5745MHz)

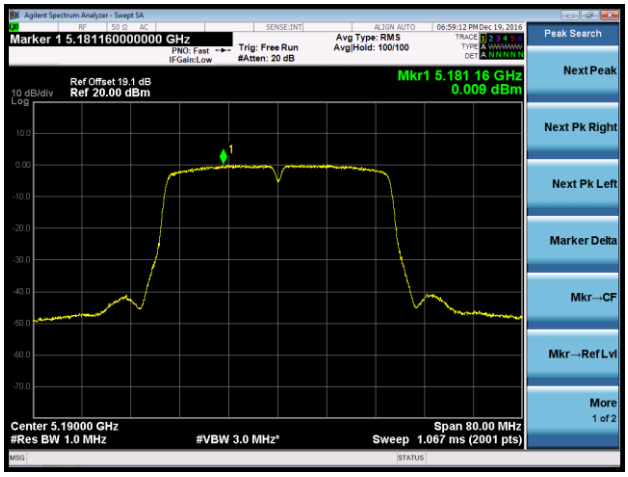
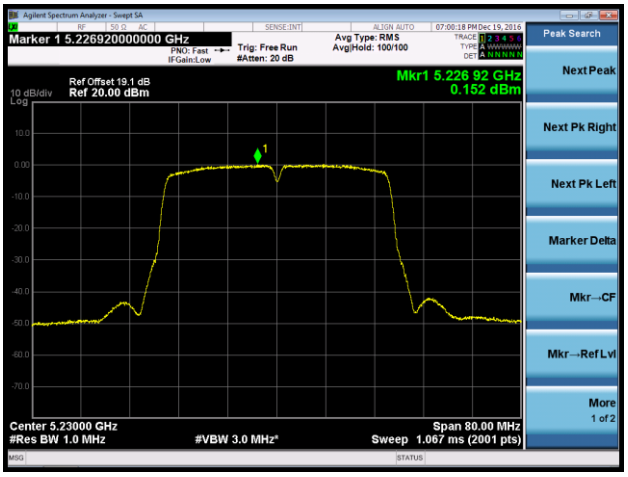
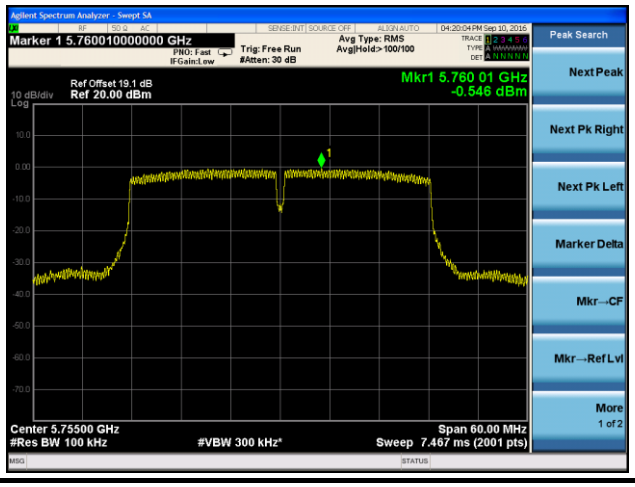
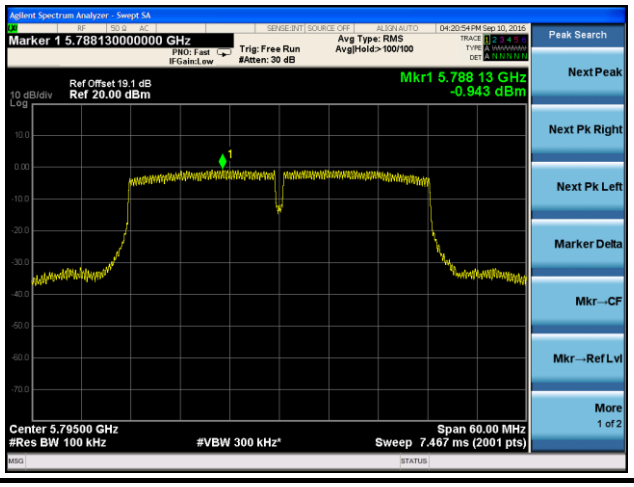


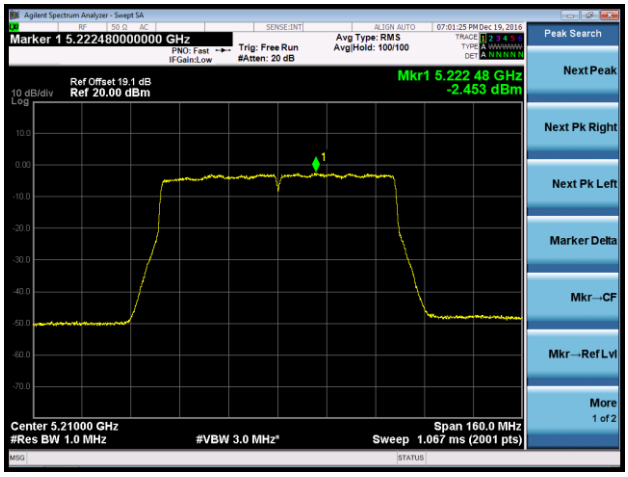
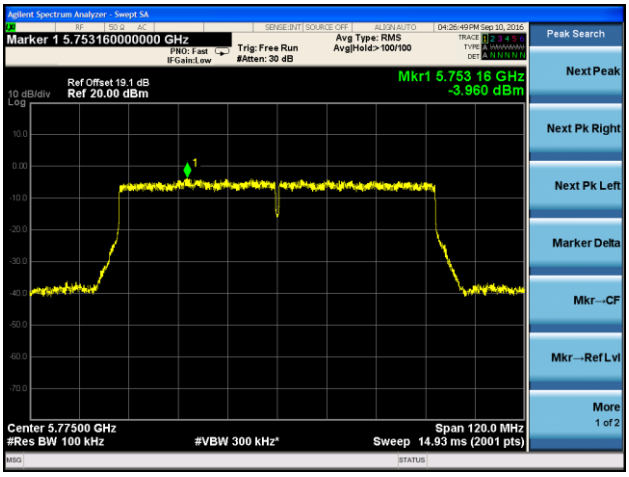
Channel 157 (5785MHz)



Channel 165 (5825MHz)

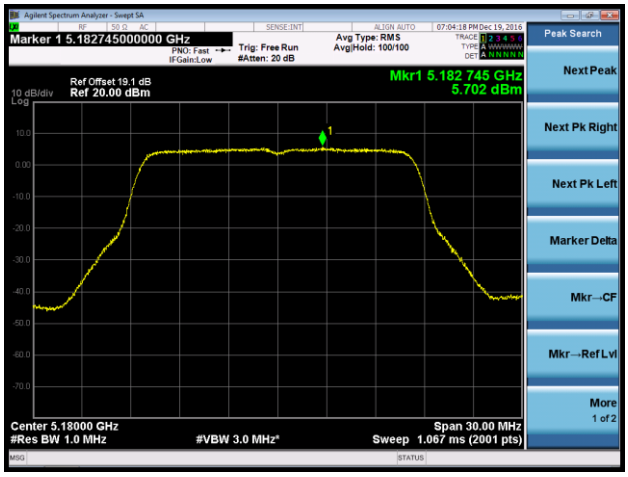


802.11ac-VHT40 Power Spectral Density - Ant 0	
Channel 38 (5190MHz)	**Channel 46 (5230MHz)**
	
Channel 151 (5755MHz)	**Channel 159 (5795MHz)**
	

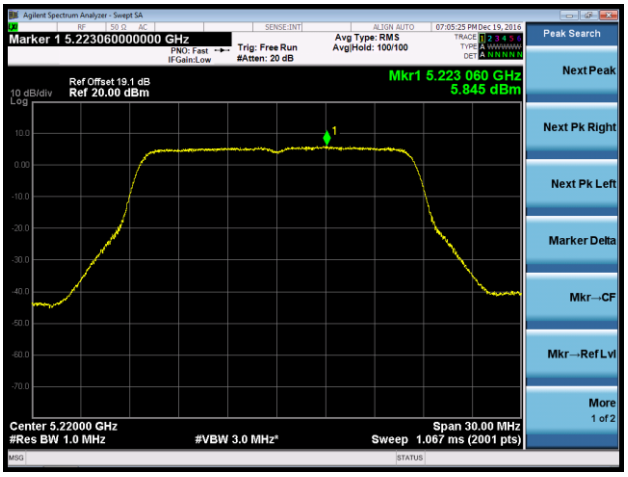
802.11ac-VHT80 Power Spectral Density - Ant 0	
Channel 42 (5210MHz)	**Channel 155 (5775MHz)**
	

802.11a Power Spectral Density - Ant 1

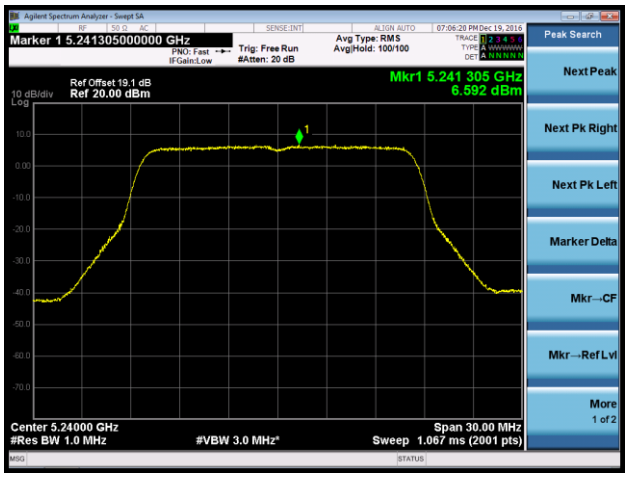
Channel 36 (5180MHz)



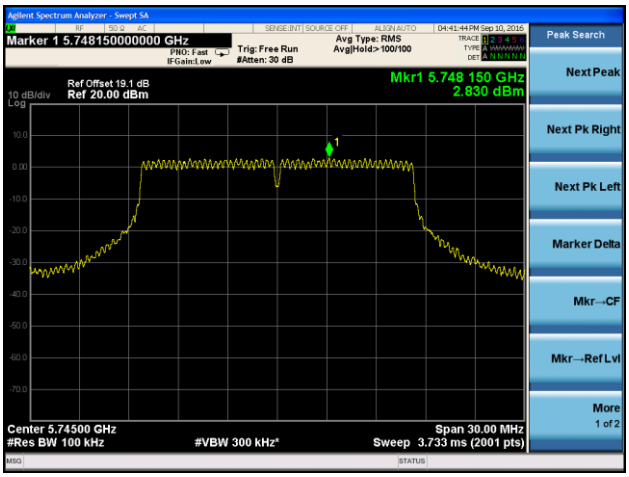
Channel 44 (5220MHz)



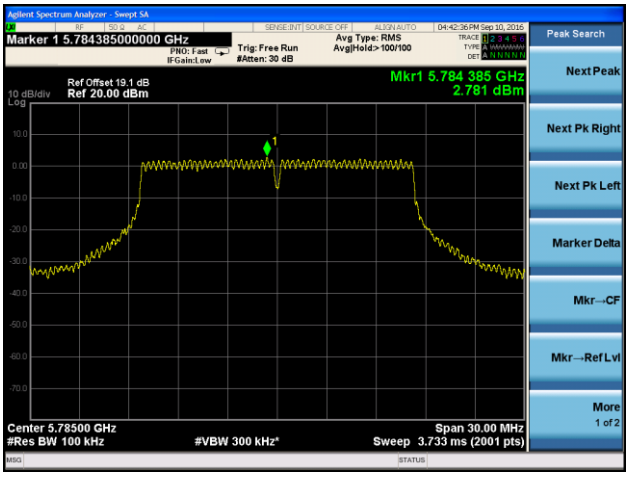
Channel 48 (5240MHz)



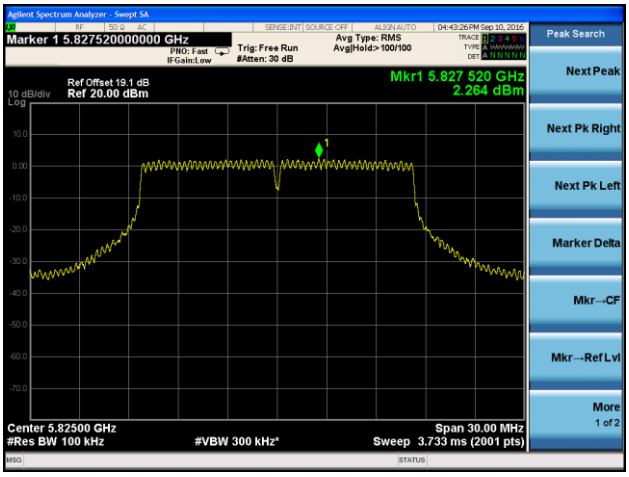
Channel 149 (5745MHz)



Channel 157 (5785MHz)

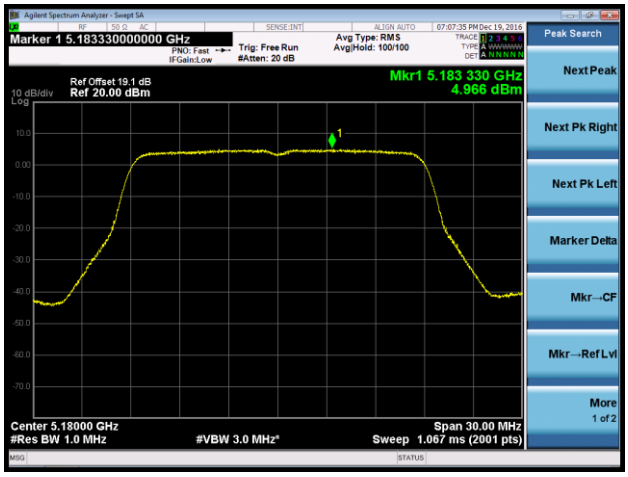


Channel 165 (5825MHz)

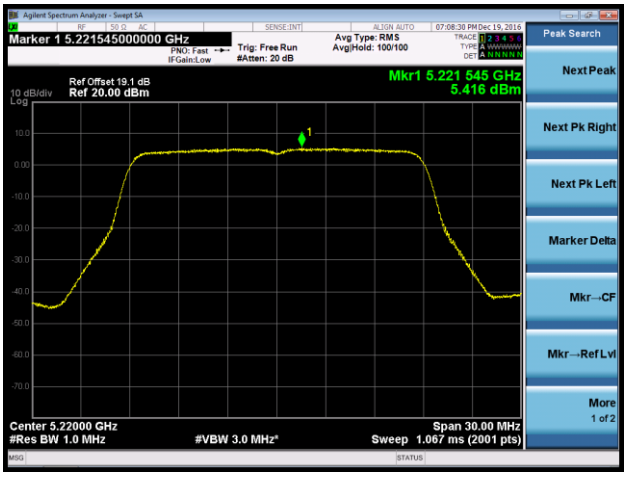


802.11n-HT20 Power Spectral Density - Ant 1

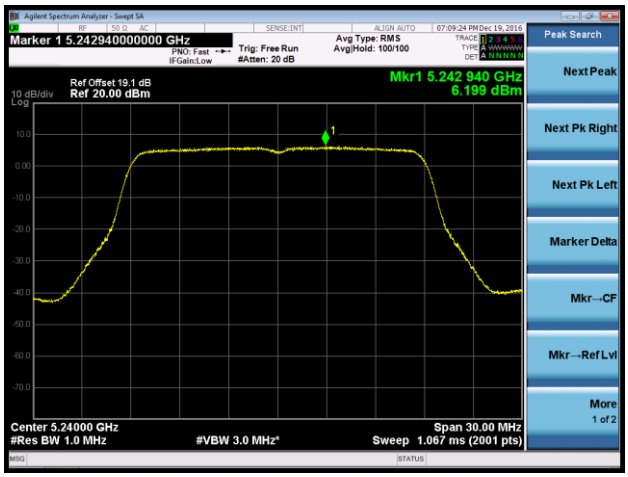
Channel 36 (5180MHz)



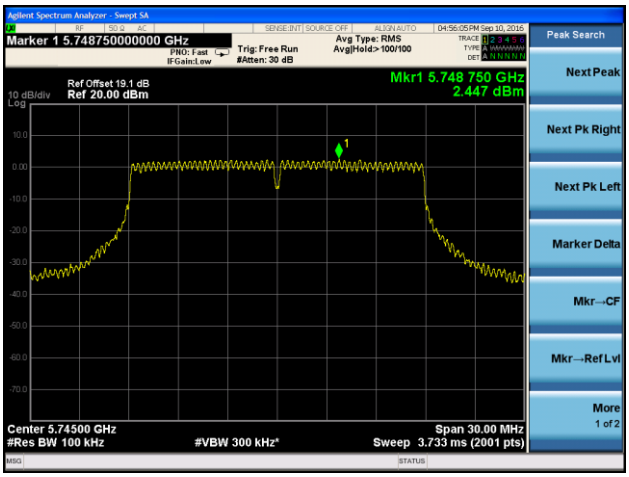
Channel 44 (5220MHz)



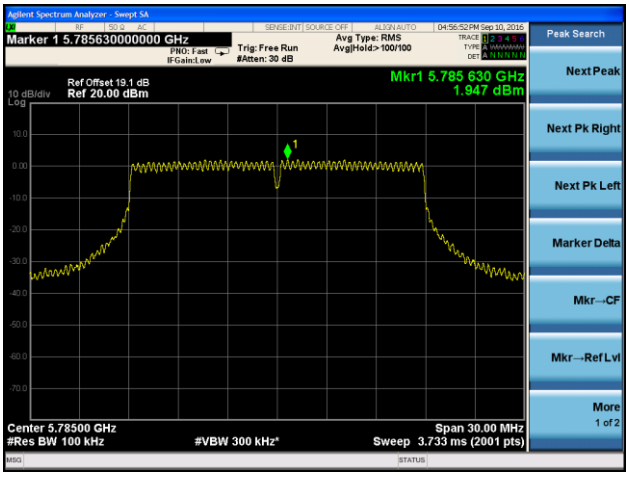
Channel 48 (5240MHz)



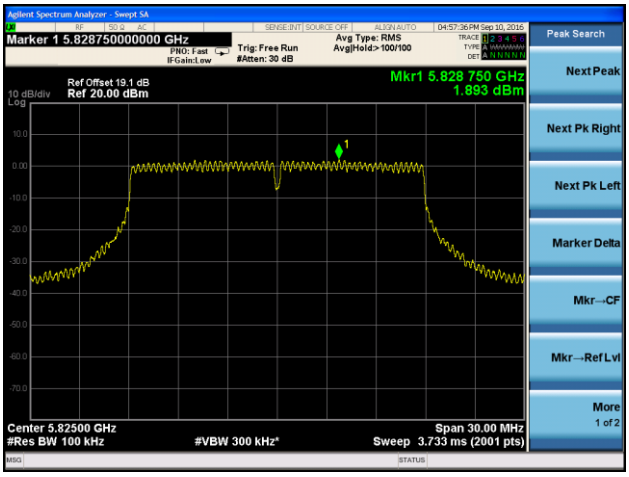
Channel 149 (5745MHz)

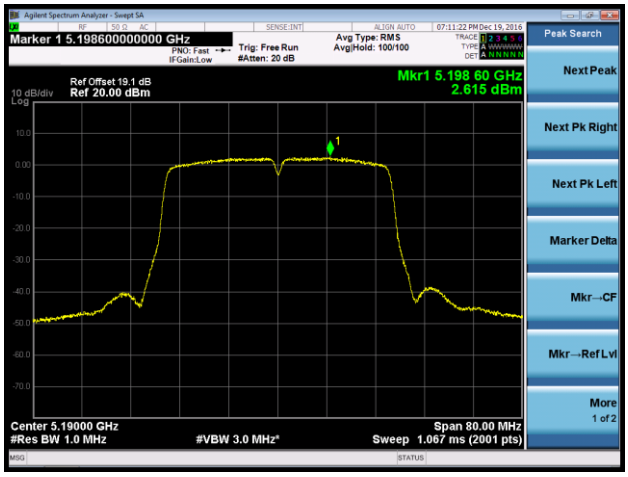
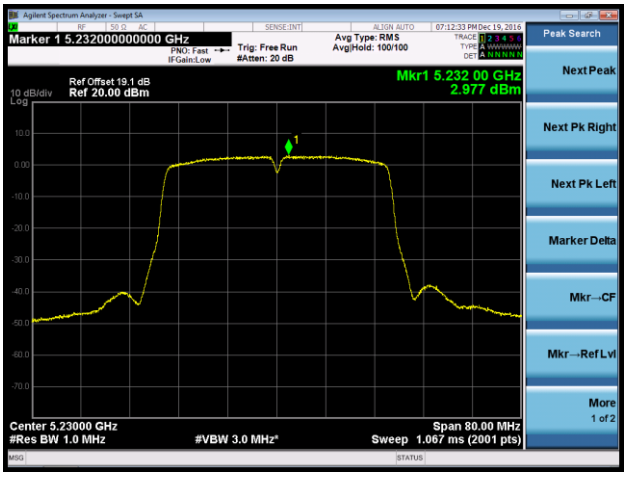
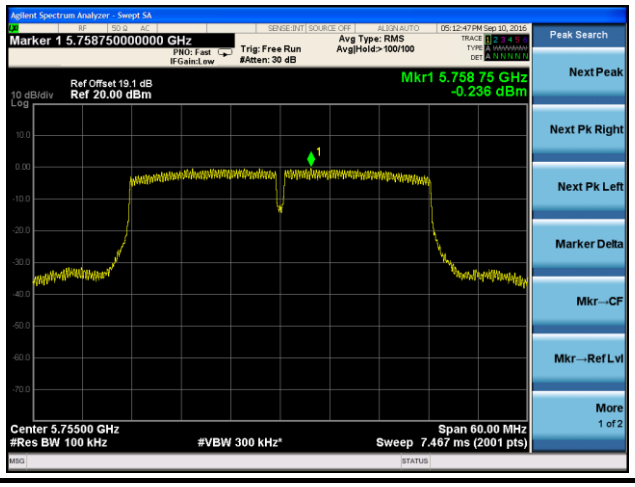
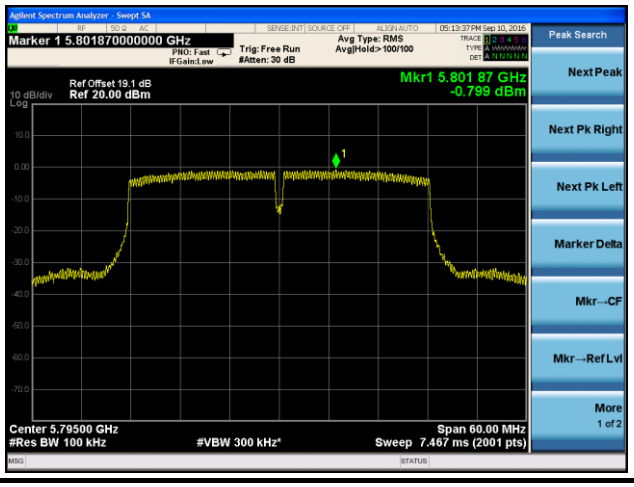


Channel 157 (5785MHz)



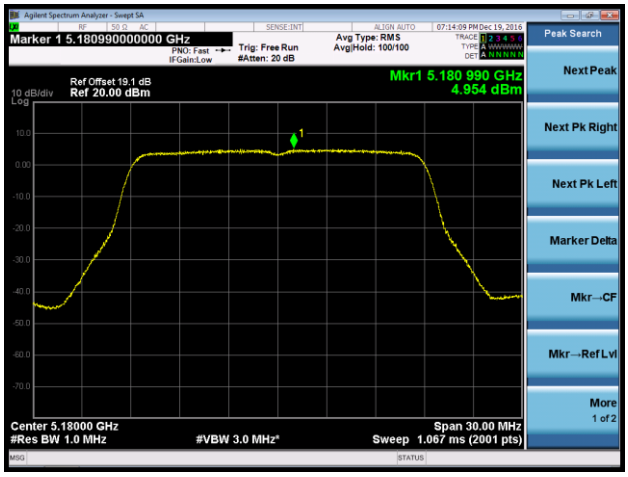
Channel 165 (5825MHz)



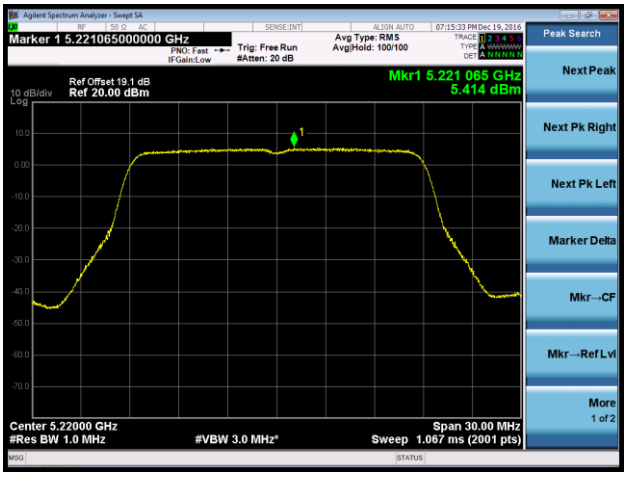
802.11n-HT40 Power Spectral Density - Ant 1	
Channel 38 (5190MHz)	**Channel 46 (5230MHz)**
	
Channel 151 (5755MHz)	**Channel 159 (5795MHz)**
	

802.11ac-VHT20 Power Spectral Density - Ant 1

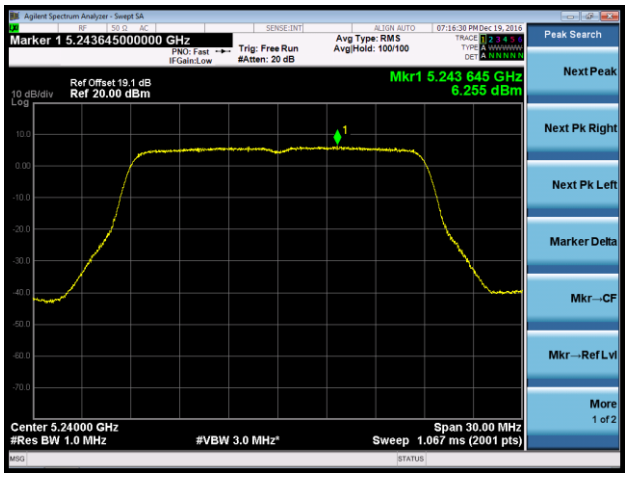
Channel 36 (5180MHz)



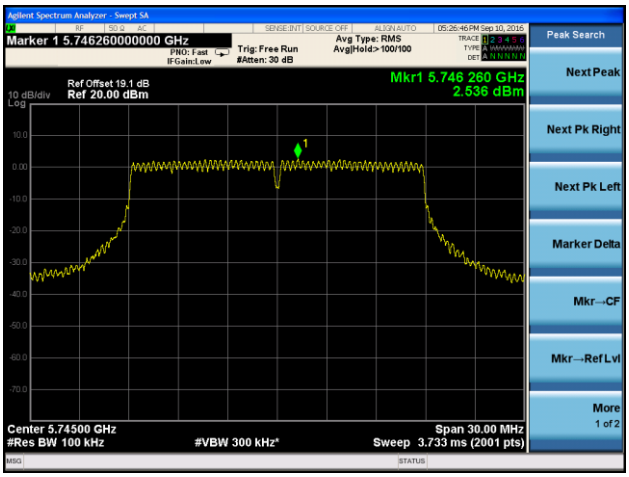
Channel 44 (5220MHz)



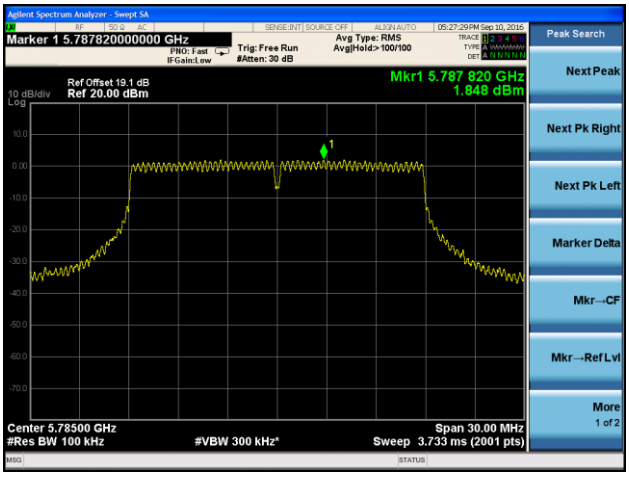
Channel 48 (5240MHz)



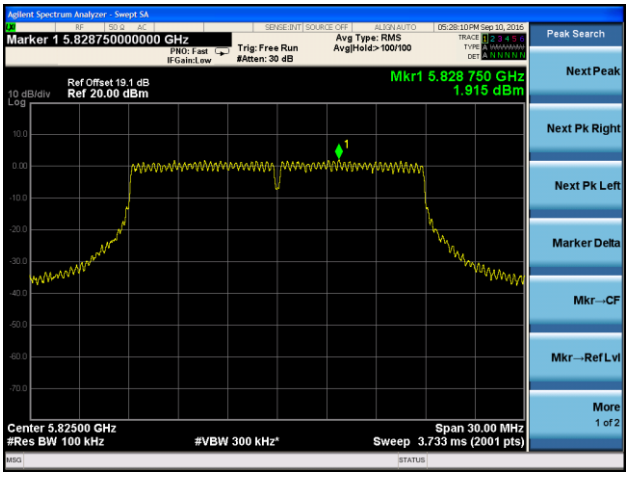
Channel 149 (5745MHz)

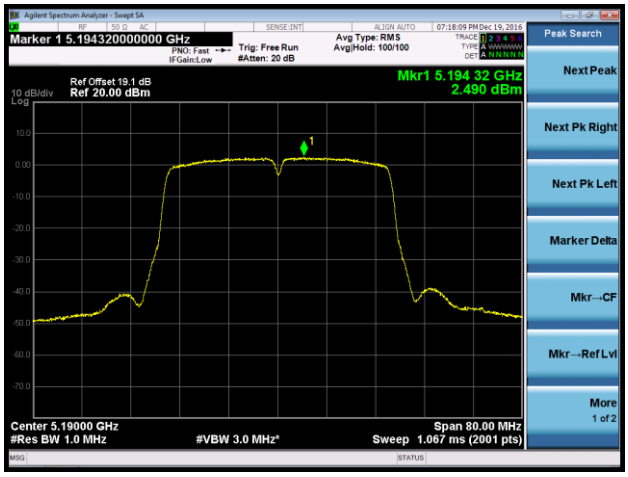
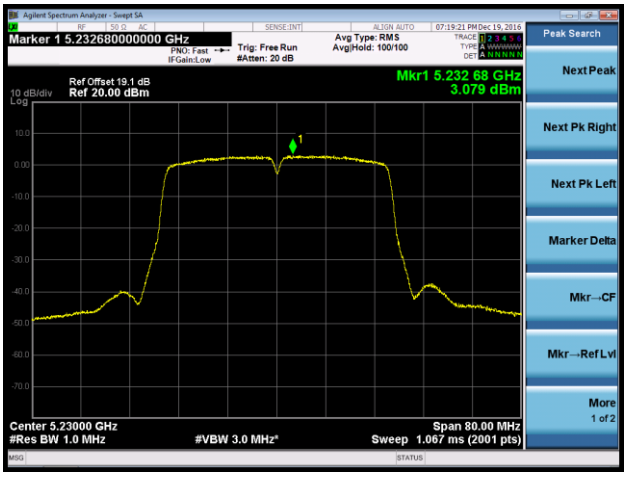


Channel 157 (5785MHz)



Channel 165 (5825MHz)



802.11ac-VHT40 Power Spectral Density - Ant 1	
Channel 38 (5190MHz)	**Channel 46 (5230MHz)**
	
Channel 151 (5755MHz)	**Channel 159 (5795MHz)**