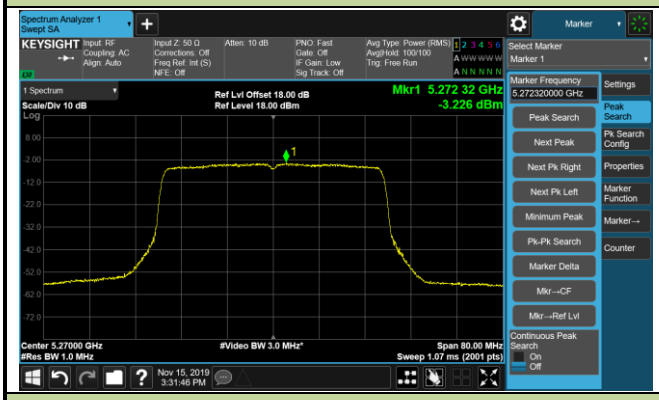
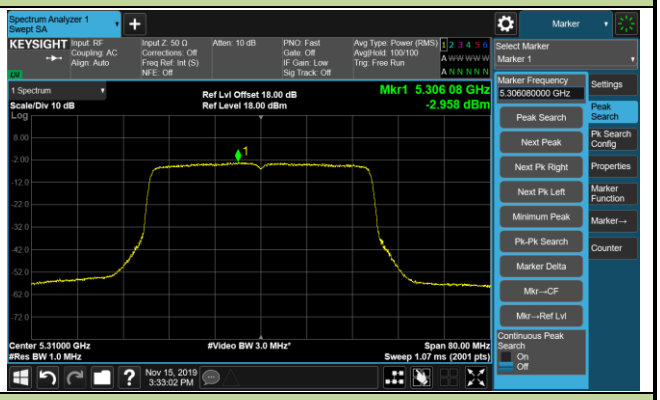
802.11ax-HE40 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

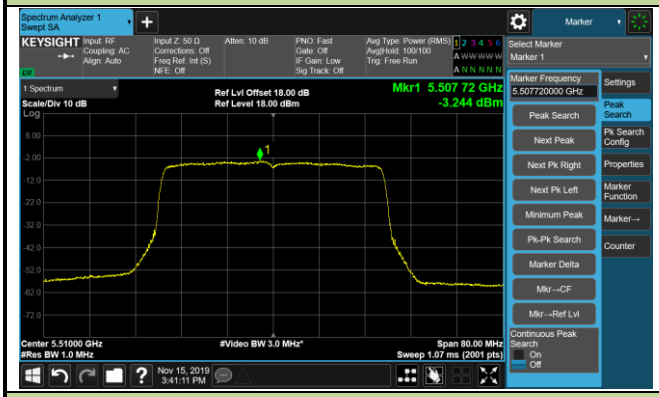
Channel 54 (5270MHz)



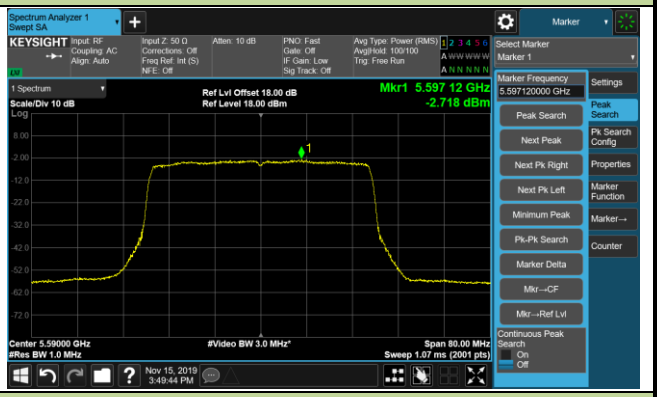
Channel 62 (5310MHz)



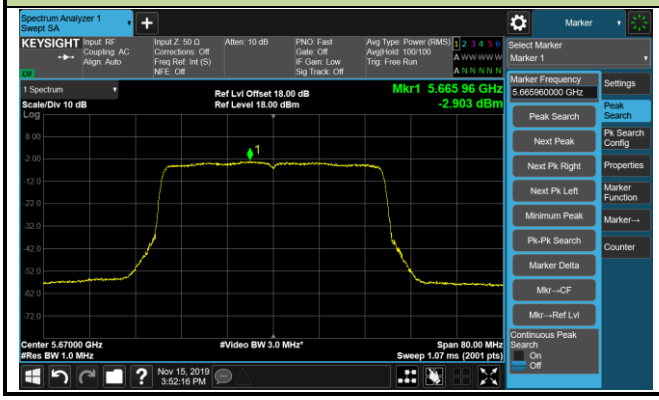
Channel 102 (5510MHz)



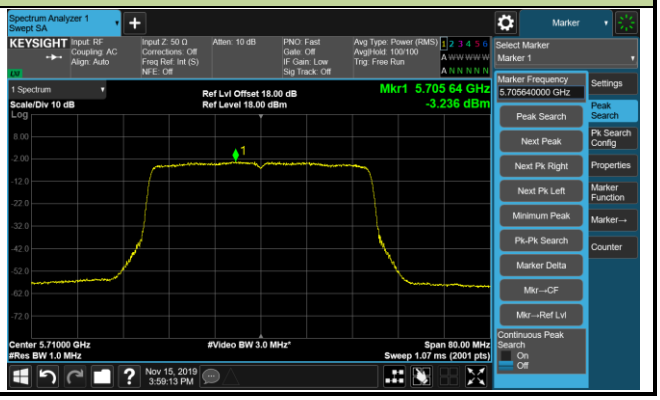
Channel 118 (5590MHz)



Channel 134 (5670MHz)

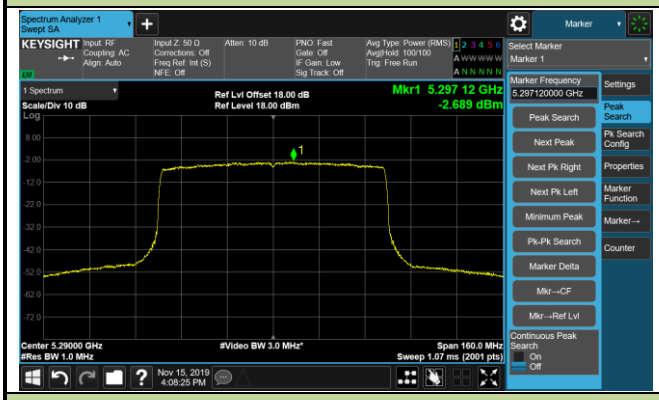


Channel 142 (5710MHz)

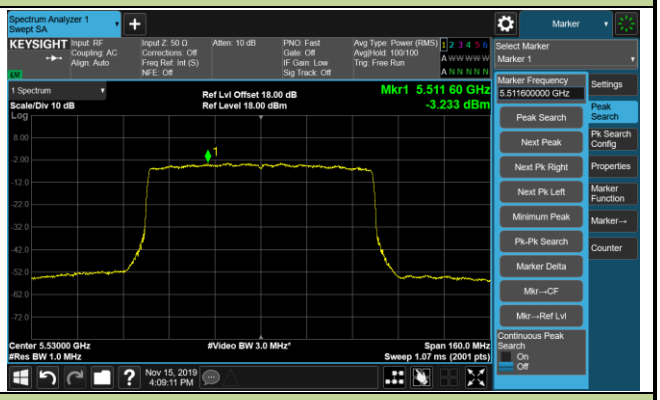


802.11ax-HE80 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

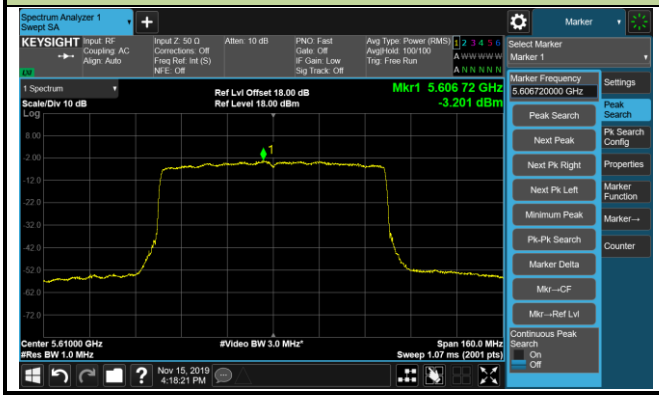
Channel 58 (5290MHz)



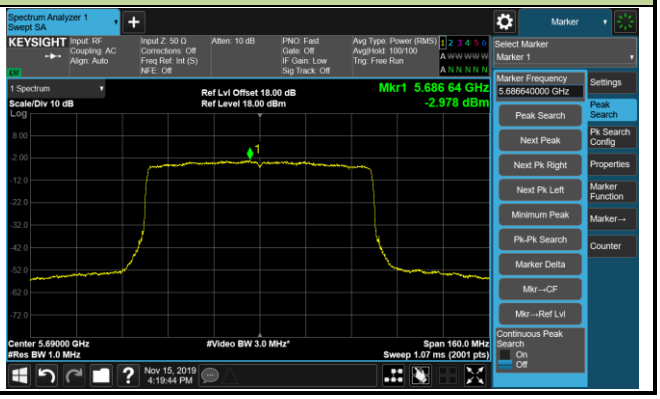
Channel 106 (5530MHz)

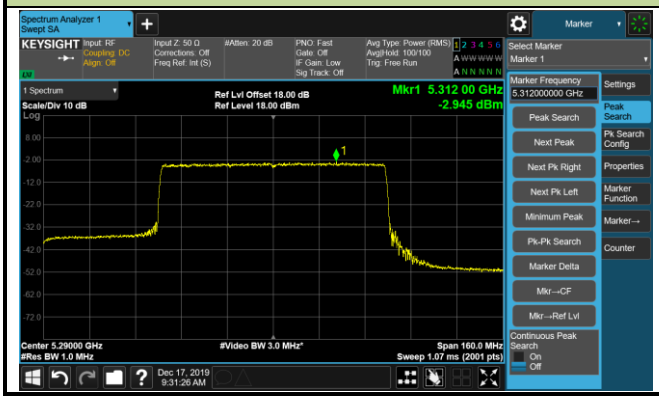
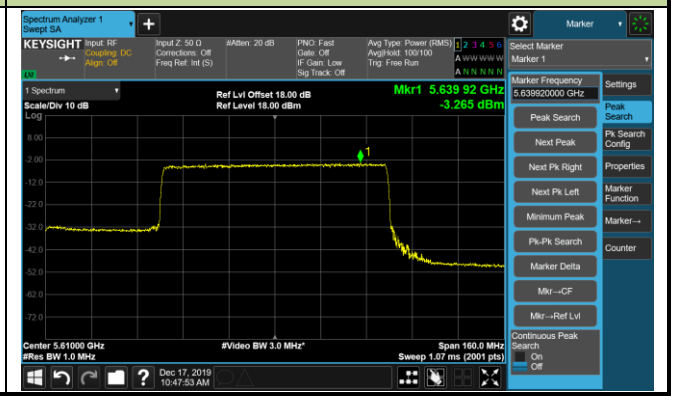


Channel 122 (5610MHz)



Channel 138 (5690MHz)



802.11ax-HE80 + 80 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3	
Channel 58 (5290MHz)	Channel 122 (5610MHz)
	

Product	HAN Access Point	Temperature	22 ~ 25°C
Test Engineer	David Lv	Relative Humidity	46 ~ 54%
Test Site	TR3	Test Date	2019/10/12 ~ 2020/03/02
Model No.	AP361e	Test Item	Power Spectral Density

Test Mode	Data Rate/ MCS	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	6Mbps	52	5260	-2.44	-3.14	-3.07	-3.03	92.26	3.46	≤ 3.98	Pass
11a	6Mbps	60	5300	-2.53	-3.08	-3.10	-2.61	92.26	3.55	≤ 3.98	Pass
11a	6Mbps	64	5320	-3.38	-2.54	-2.90	-3.13	92.26	3.39	≤ 3.98	Pass
11a	6Mbps	100	5500	-2.49	-3.53	-2.70	-2.62	92.26	3.55	≤ 3.98	Pass
11a	6Mbps	120	5600	-2.23	-3.06	-2.82	-2.38	92.26	3.76	≤ 3.98	Pass
11a	6Mbps	140	5700	-3.96	-2.52	-3.10	-2.56	92.26	3.37	≤ 3.98	Pass
11a	6Mbps	144	5720	-3.03	-2.41	-2.22	-2.43	92.26	3.86	≤ 3.98	Pass
11n-HT20	MCS0	52	5260	-2.46	-3.62	-2.76	-3.06	95.01	3.29	≤ 3.98	Pass
11n-HT20	MCS0	60	5300	-2.65	-2.40	-3.98	-2.94	95.01	3.29	≤ 3.98	Pass
11n-HT20	MCS0	64	5320	-3.13	-2.85	-3.28	-3.41	95.01	3.08	≤ 3.98	Pass
11n-HT20	MCS0	100	5500	-2.80	-3.21	-3.04	-2.91	95.01	3.26	≤ 3.98	Pass
11n-HT20	MCS0	120	5600	-2.42	-3.06	-2.85	-2.58	95.01	3.52	≤ 3.98	Pass
11n-HT20	MCS0	140	5700	-3.15	-2.29	-2.55	-1.98	95.01	3.77	≤ 3.98	Pass
11n-HT20	MCS0	144	5720	-3.81	-2.52	-3.07	-2.72	95.01	3.24	≤ 3.98	Pass
11n-HT40	MCS0	54	5270	-2.50	-2.72	-2.85	-2.77	91.60	3.69	≤ 3.98	Pass
11n-HT40	MCS0	62	5310	-2.82	-2.43	-3.16	-3.04	91.60	3.55	≤ 3.98	Pass
11n-HT40	MCS0	102	5510	-2.62	-3.44	-3.45	-2.33	91.60	3.47	≤ 3.98	Pass
11n-HT40	MCS0	118	5590	-2.60	-3.39	-3.16	-2.73	91.60	3.44	≤ 3.98	Pass
11n-HT40	MCS0	134	5670	-3.43	-2.84	-2.85	-3.17	91.60	3.34	≤ 3.98	Pass
11n-HT40	MCS0	142	5710	-3.41	-3.03	-2.97	-2.48	91.60	3.44	≤ 3.98	Pass

Test Mode	Data Rate/ MCS	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											
11ax-HE20	MCS0	52	5260	-2.67	-2.85	-3.05	-3.33	95.03	3.27	≤ 3.98	Pass
11ax-HE20	MCS0	60	5300	-2.97	-3.02	-3.51	-2.82	95.03	3.17	≤ 3.98	Pass
11ax-HE20	MCS0	64	5320	-2.92	-2.41	-2.72	-2.96	95.03	3.50	≤ 3.98	Pass
11ax-HE20	MCS0	100	5500	-2.46	-3.37	-3.14	-2.58	95.03	3.37	≤ 3.98	Pass
11ax-HE20	MCS0	120	5600	-2.89	-3.13	-3.20	-2.97	95.03	3.20	≤ 3.98	Pass
11ax-HE20	MCS0	140	5700	-3.29	-2.53	-2.77	-2.68	95.03	3.43	≤ 3.98	Pass
11ax-HE20	MCS0	144	5720	-3.42	-2.70	-2.40	-2.57	95.03	3.49	≤ 3.98	Pass
11ax-HE40	MCS0	54	5270	-2.30	-3.22	-2.91	-2.80	96.02	3.40	≤ 3.98	Pass
11ax-HE40	MCS0	62	5310	-2.50	-2.45	-1.94	-2.67	96.02	3.82	≤ 3.98	Pass
11ax-HE40	MCS0	102	5510	-2.36	-3.05	-3.17	-2.19	96.02	3.53	≤ 3.98	Pass
11ax-HE40	MCS0	118	5590	-2.79	-2.90	-1.85	-2.69	96.02	3.66	≤ 3.98	Pass
11ax-HE40	MCS0	134	5670	-2.98	-2.69	-2.64	-3.05	96.02	3.36	≤ 3.98	Pass
11ax-HE40	MCS0	142	5710	-3.12	-2.81	-2.58	-2.48	96.02	3.46	≤ 3.98	Pass
11ax-HE80	MCS0	58	5290	-2.77	-2.55	-3.29	-3.00	94.27	3.38	≤ 3.98	Pass
11ax-HE80	MCS0	106	5530	-2.68	-3.40	-2.97	-2.63	94.27	3.37	≤ 3.98	Pass
11ax-HE80	MCS0	122	5610	-2.36	-2.72	-2.96	-2.91	94.27	3.55	≤ 3.98	Pass
11ax-HE80	MCS0	138	5690	-2.68	-2.27	-2.64	-2.39	94.27	3.79	≤ 3.98	Pass
11ax-HE80 + 80	MCS0	42	5210	-6.05	-6.02			94.27	-2.77	≤ 9.98	Pass
		58	5290			-6.88	-2.71	94.27	-1.05	≤ 3.98	Pass
11ax-HE80 + 80	MCS0	106	5530	-8.12	-8.45			94.27	-5.02	≤ 3.98	Pass
		122	5610			-6.80	-5.90	94.27	-3.06	≤ 3.98	Pass

Note 1: When EUT duty cycle ≥ 98%, the total PSD (dBm/MHz) = $10*\log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$

Note 2: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = $10*\log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\} + 10*\log(1/\text{duty cycle})$

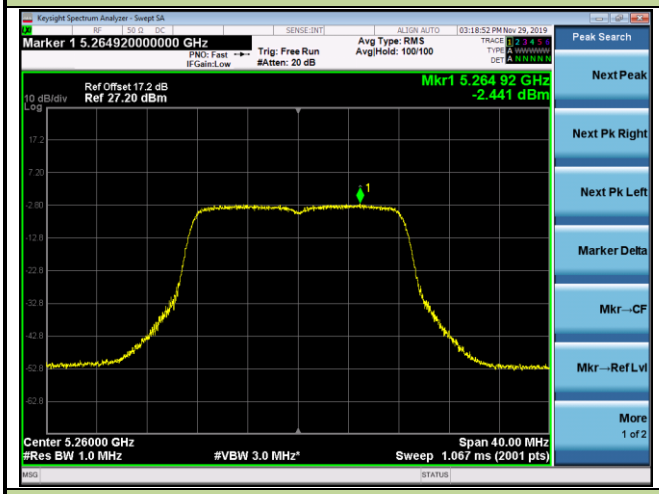
Note 3: For ax-HE80+80 Contiguous Mode

5210MHz and 5530MHz: Total Average Power (dBm) = $10*\log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$.

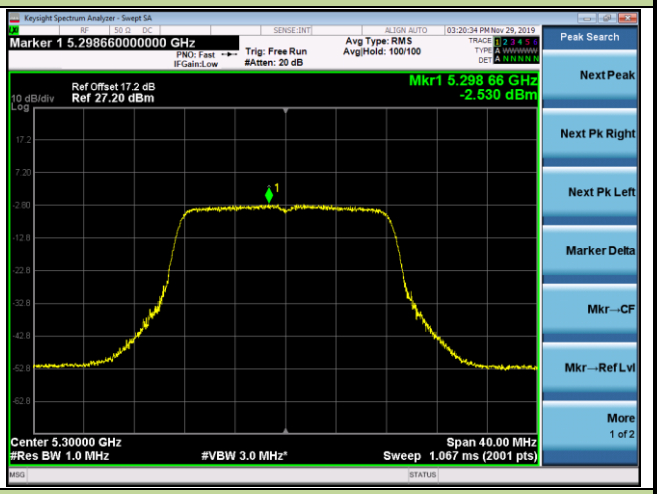
5290MHz and 5610MHz: Total Average Power (dBm) = $10*\log\{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$.

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

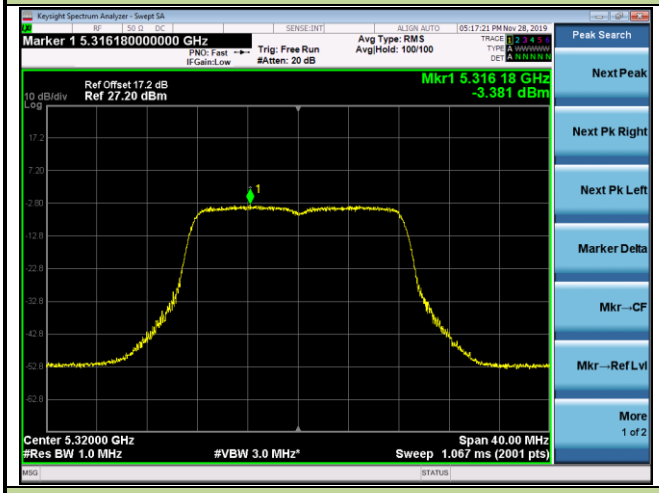
Channel 52 (5260MHz)



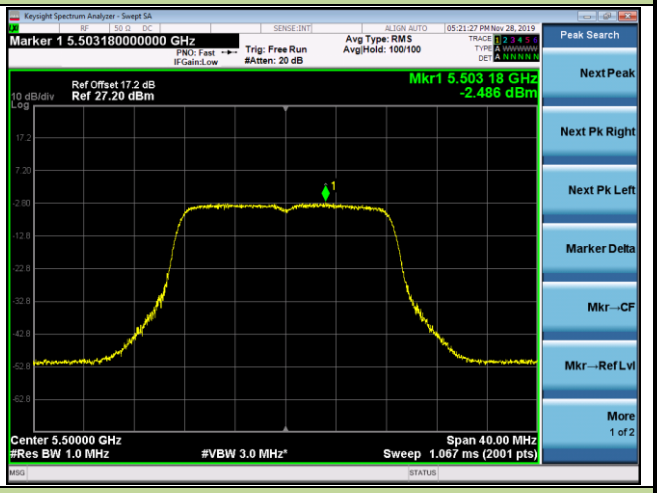
Channel 60 (5300MHz)



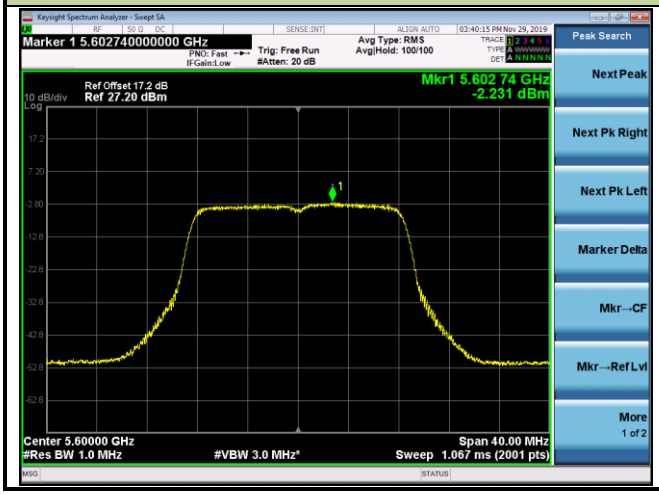
Channel 64 (5320MHz)



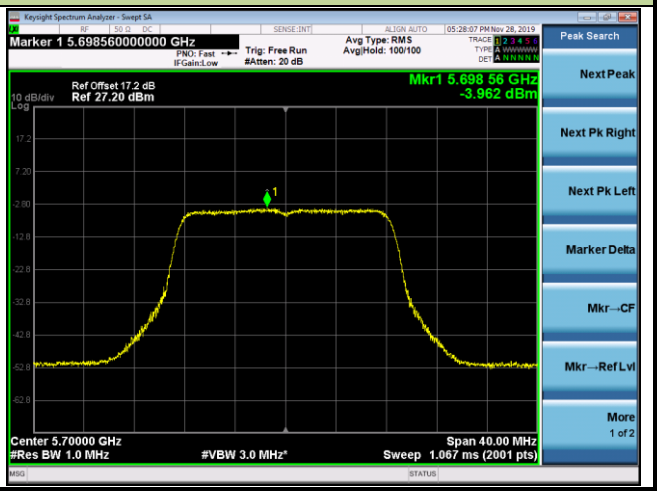
Channel 100 (5500MHz)

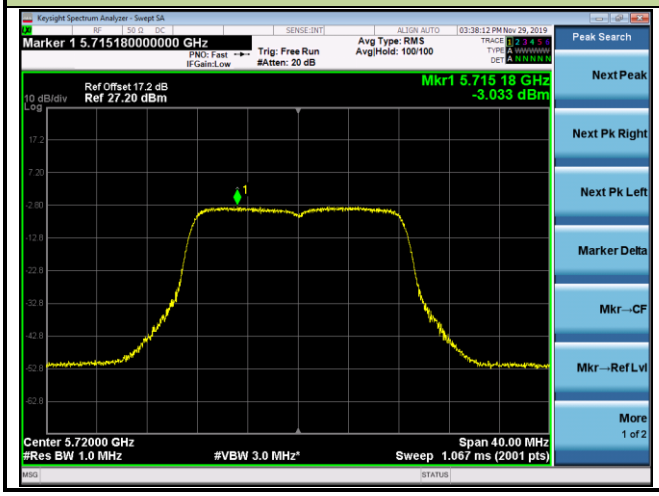


Channel 120 (5600MHz)



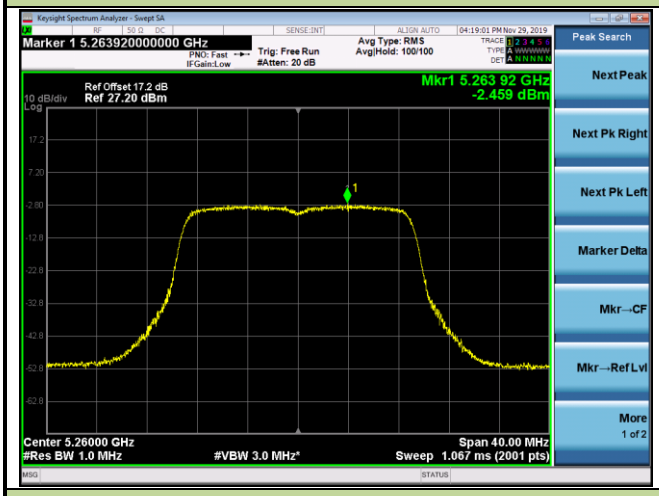
Channel 140 (5700MHz)



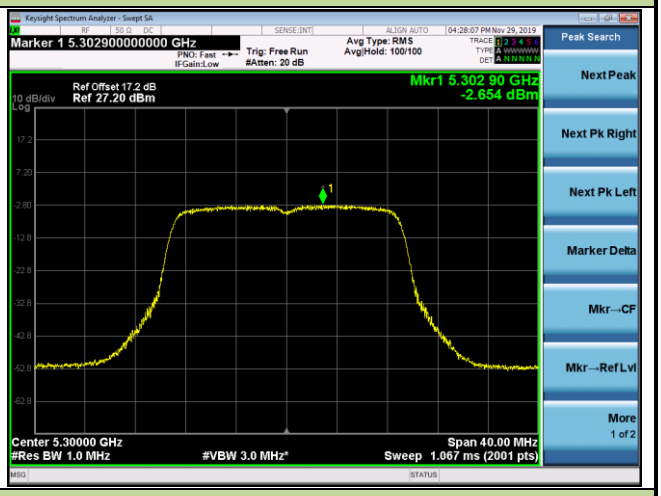
Channel 144 (5720MHz)	
	

802.11n-HT20 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

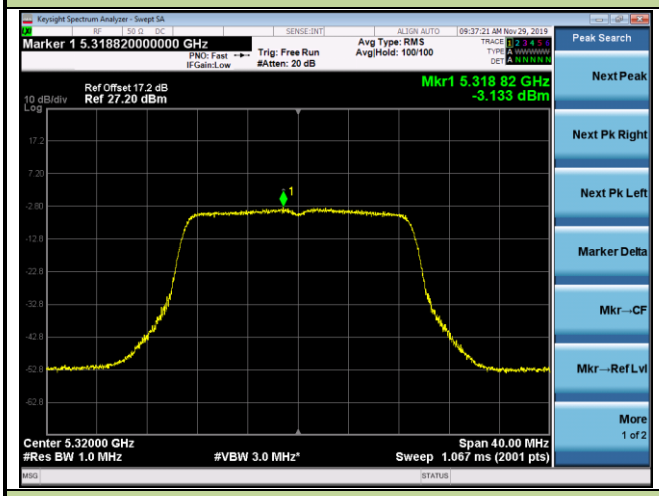
Channel 52 (5260MHz)



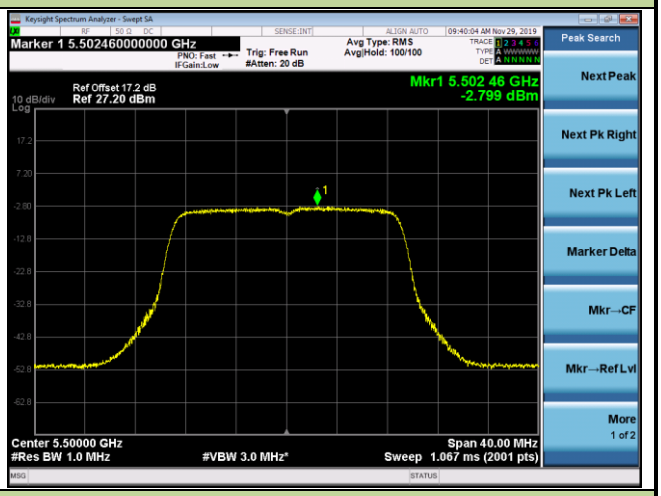
Channel 60 (5300MHz)



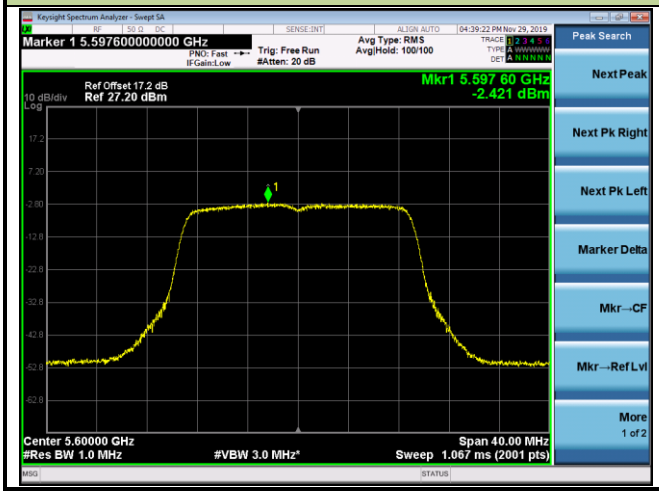
Channel 64 (5320MHz)



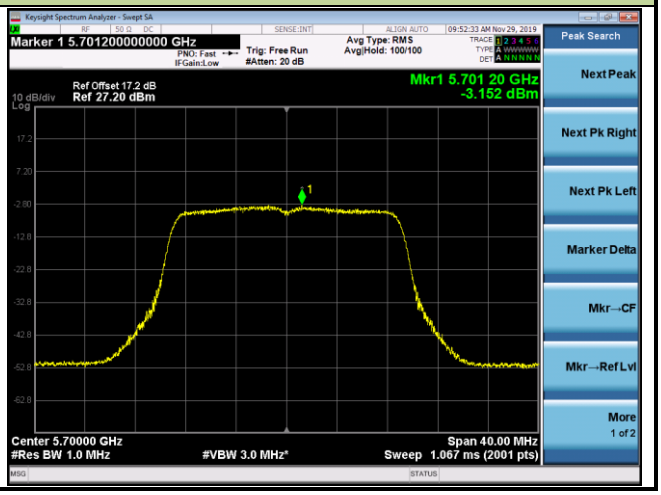
Channel 100 (5500MHz)

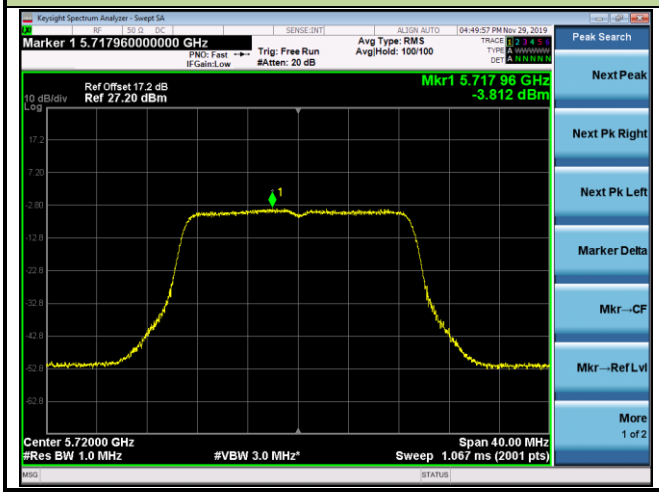


Channel 120 (5600MHz)



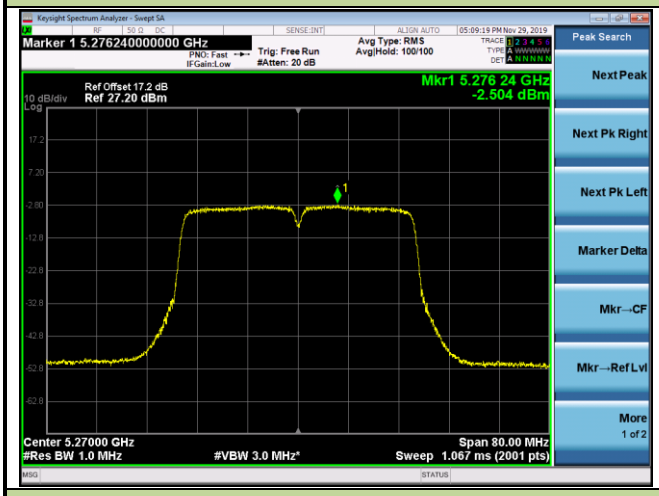
Channel 140 (5700MHz)



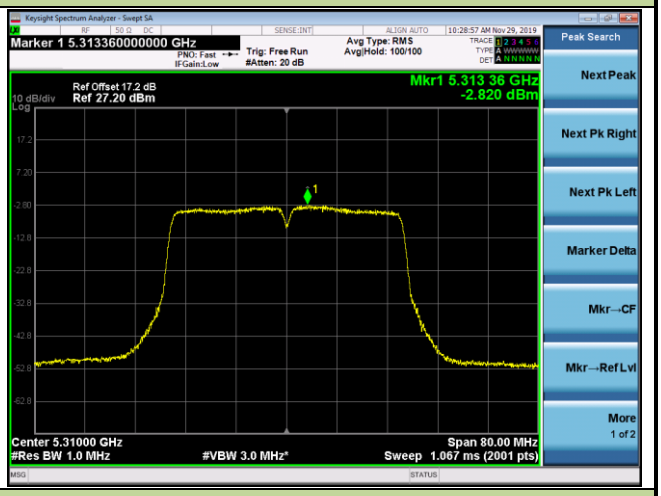
Channel 144 (5720MHz)	
	

802.11n-HT40 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

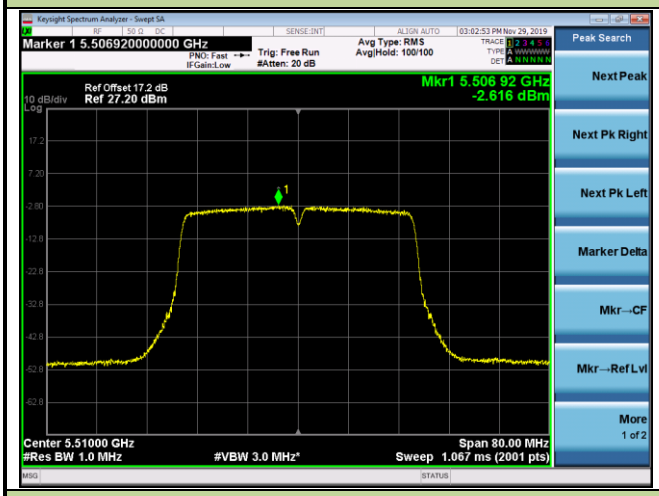
Channel 54 (5270MHz)



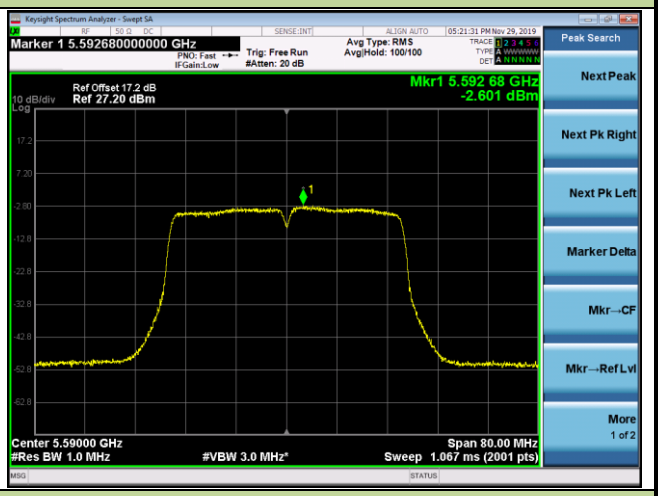
Channel 62 (5310MHz)



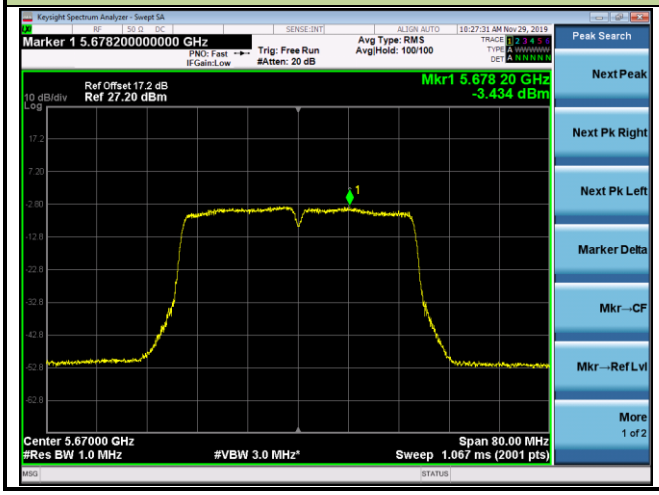
Channel 102 (5510MHz)



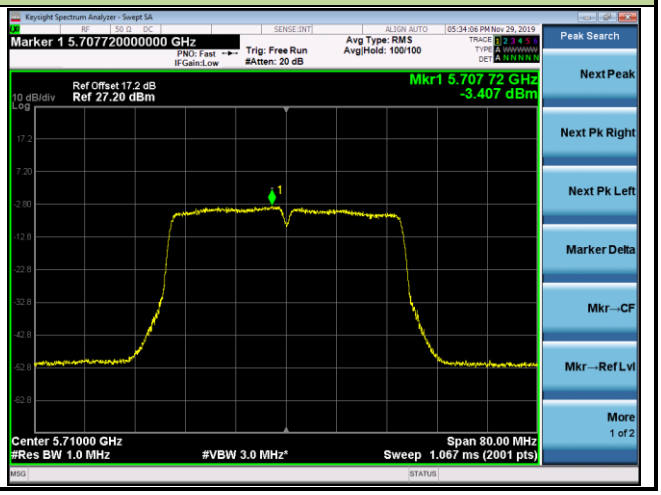
Channel 118 (5590MHz)



Channel 134 (5670MHz)

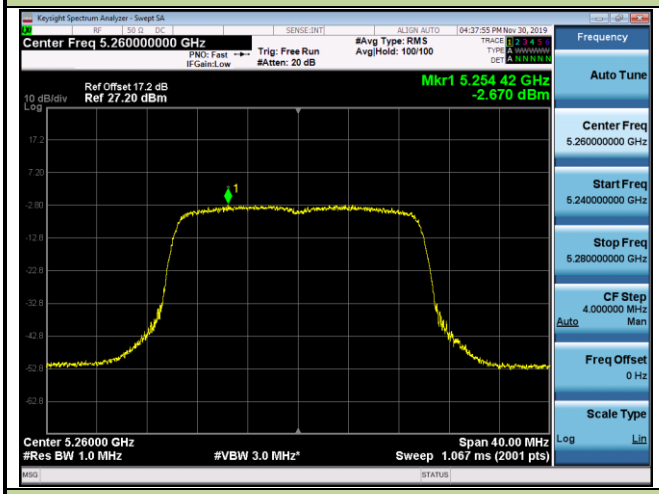


Channel 142 (5710MHz)

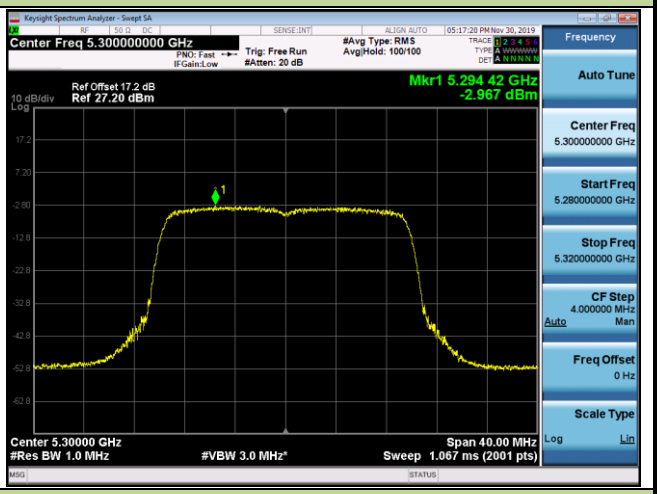


802.11ax-HE20 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 52 (5260MHz)

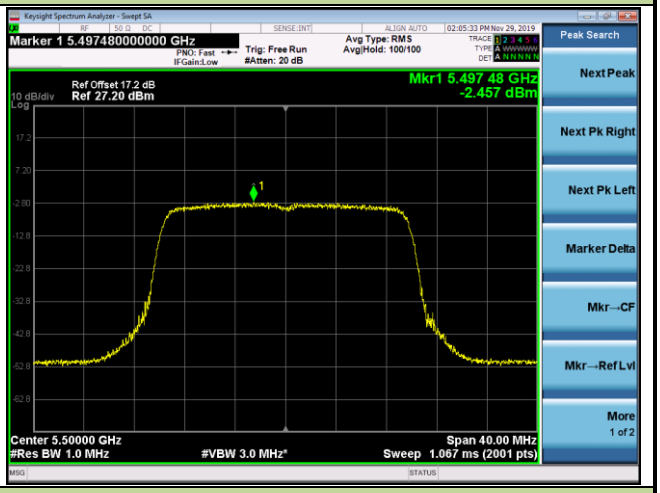


Channel 60 (5300MHz)

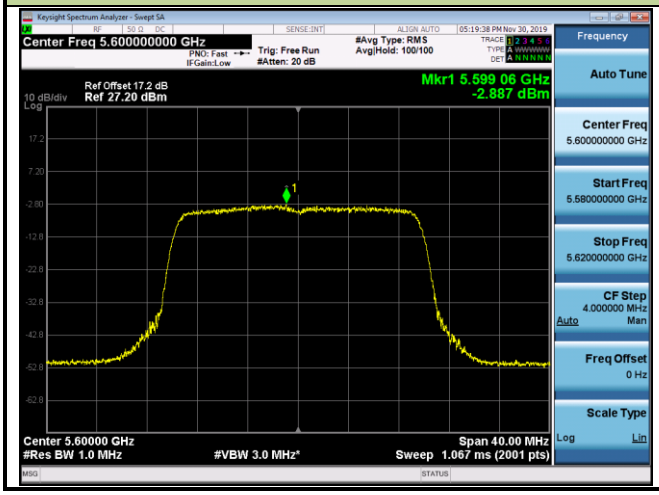


Channel 64 (5320MHz)

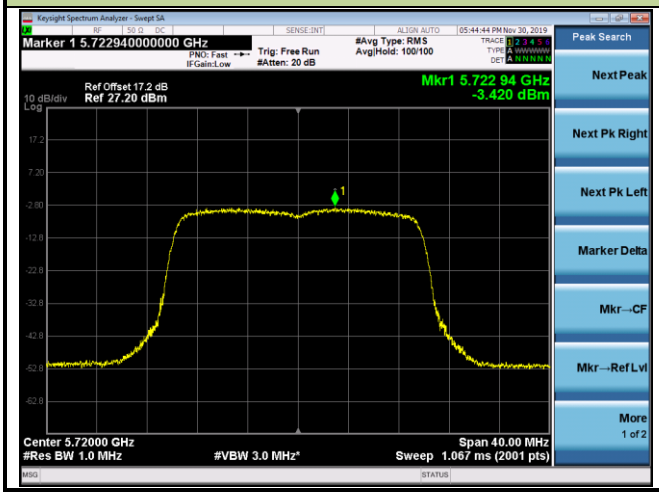
Channel 100 (5500MHz)



Channel 120 (5600MHz)

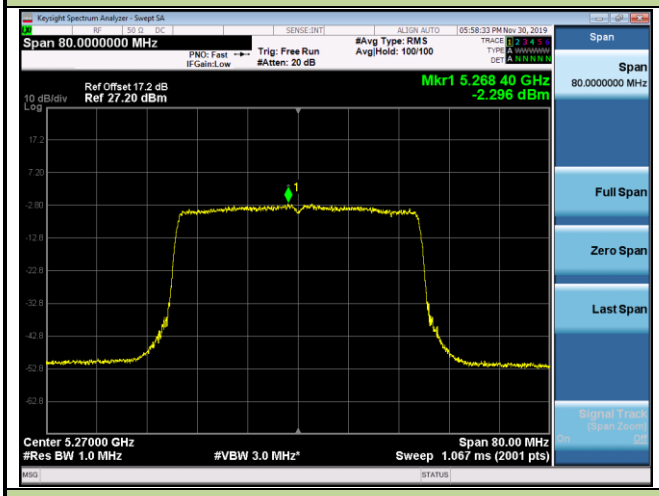


Channel 140 (5700MHz)

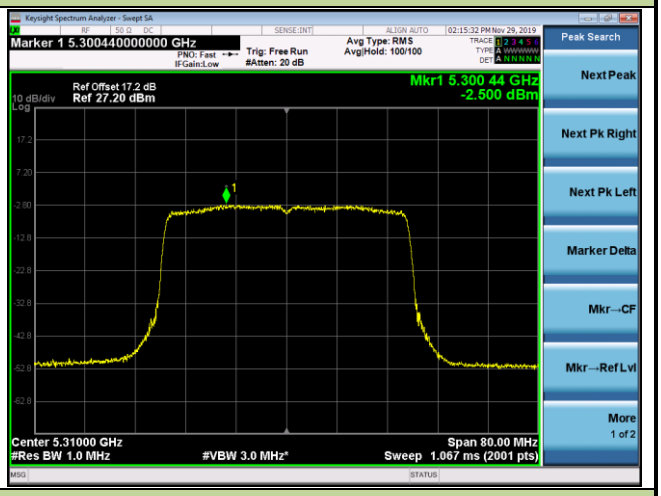
Channel 144 (5720MHz)	
	

802.11ax-HE40 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

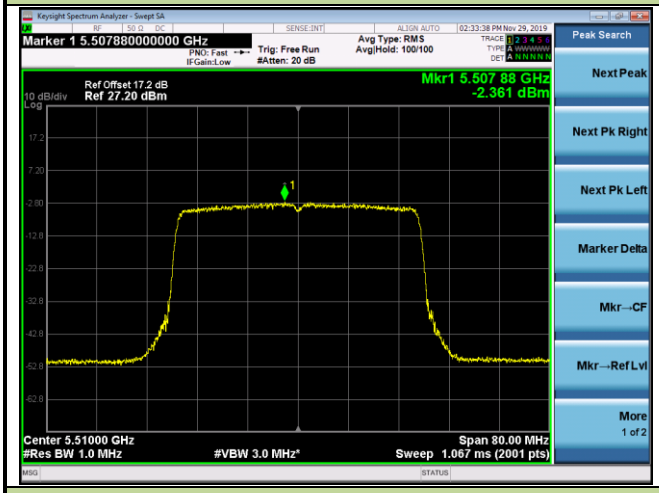
Channel 54 (5270MHz)



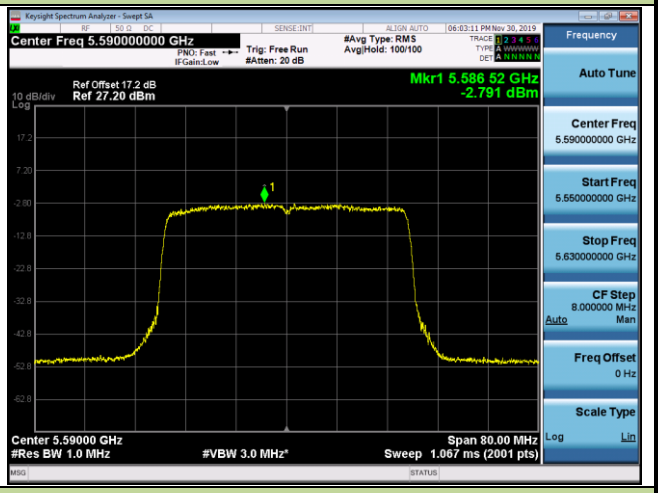
Channel 62 (5310MHz)



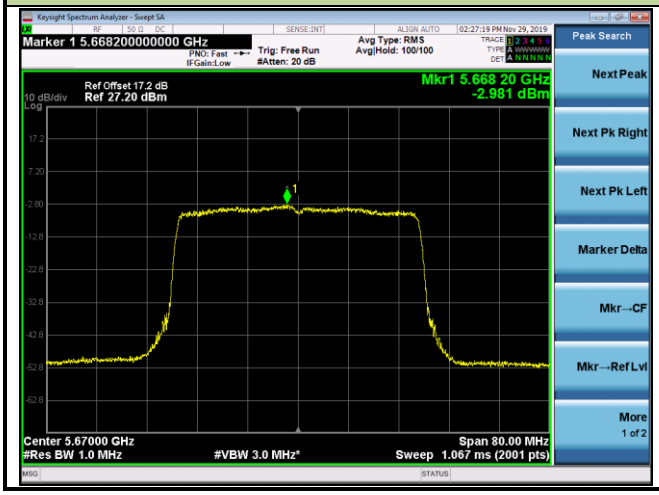
Channel 102 (5510MHz)



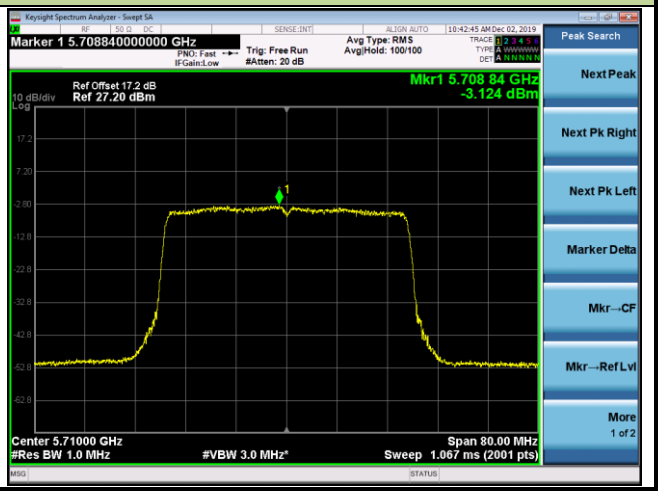
Channel 118 (5590MHz)

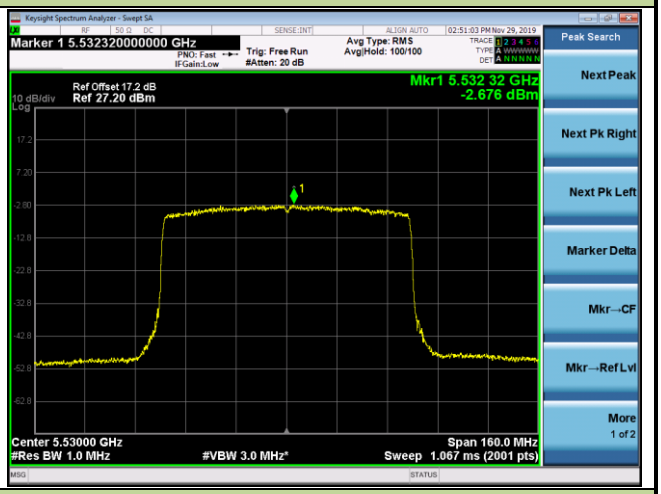
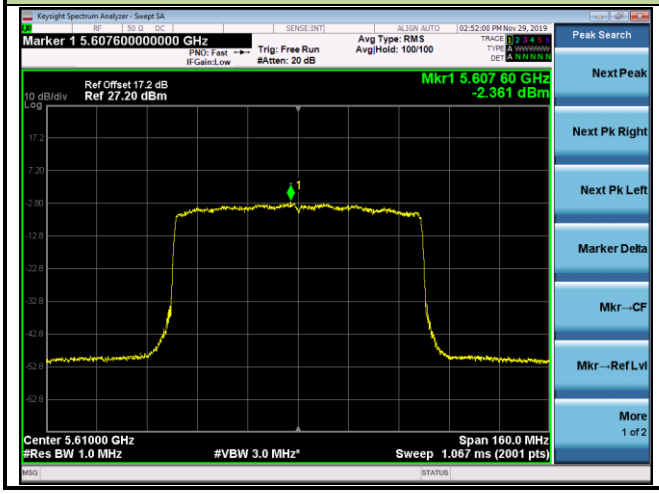
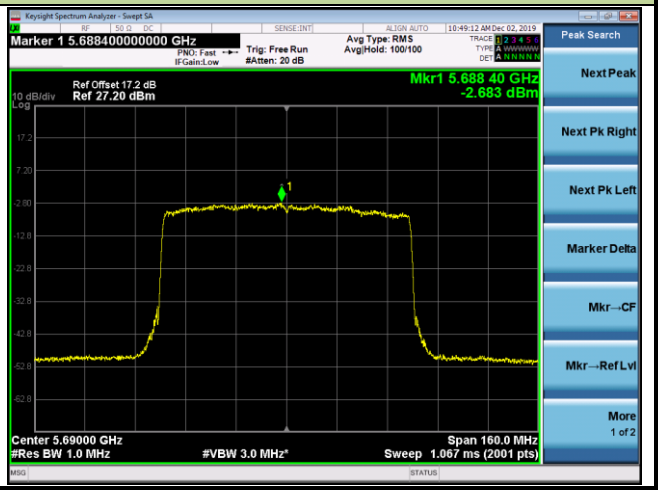


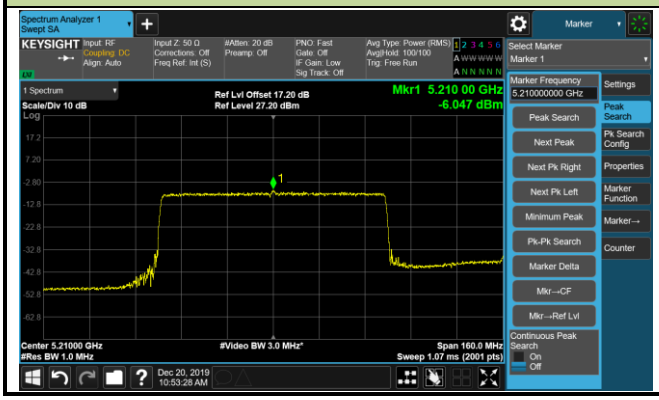
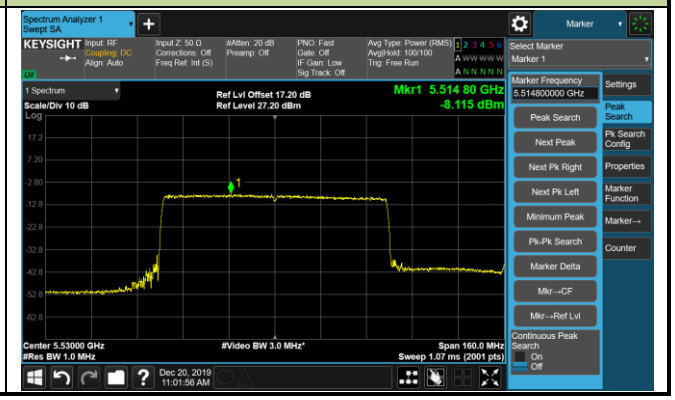
Channel 134 (5670MHz)



Channel 142 (5710MHz)

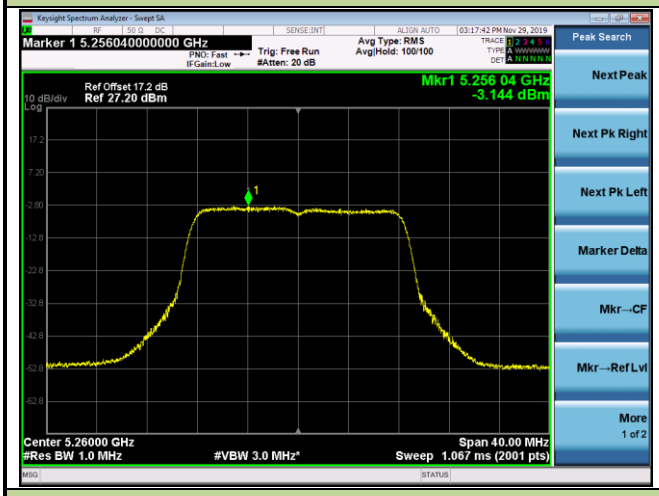


802.11ax-HE80 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3	
Channel 58 (5290MHz)	Channel 106 (5530MHz)
	
Channel 122 (5610MHz)	Channel 138 (5690MHz)
	

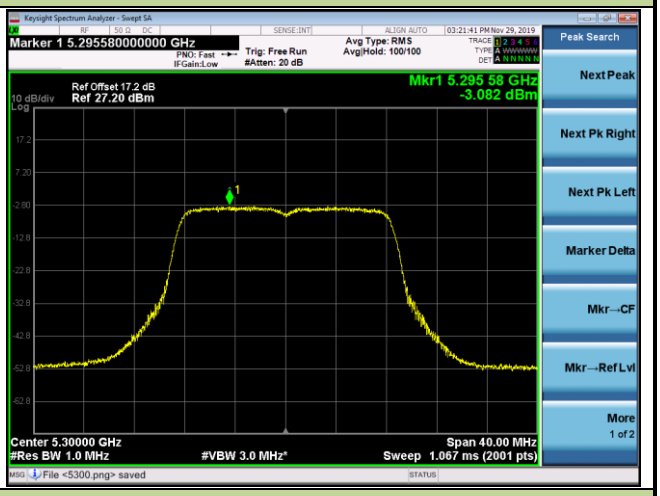
802.11ax-HE80+80 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3	
Channel 42 (5210MHz)	Channel 106 (5530MHz)
	

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

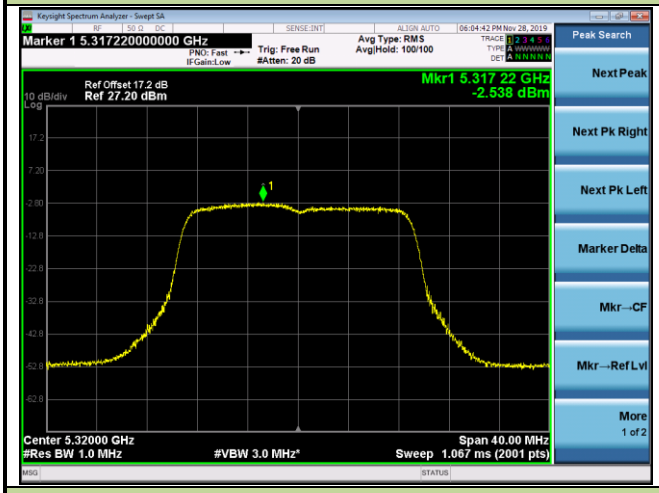
Channel 52 (5260MHz)



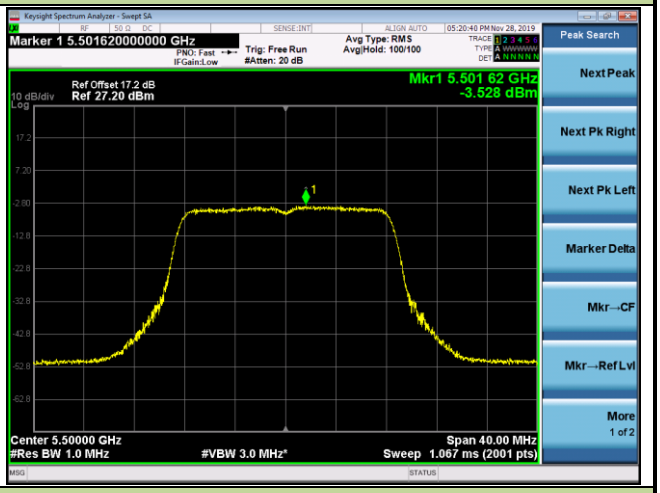
Channel 60 (5300MHz)



Channel 64 (5320MHz)

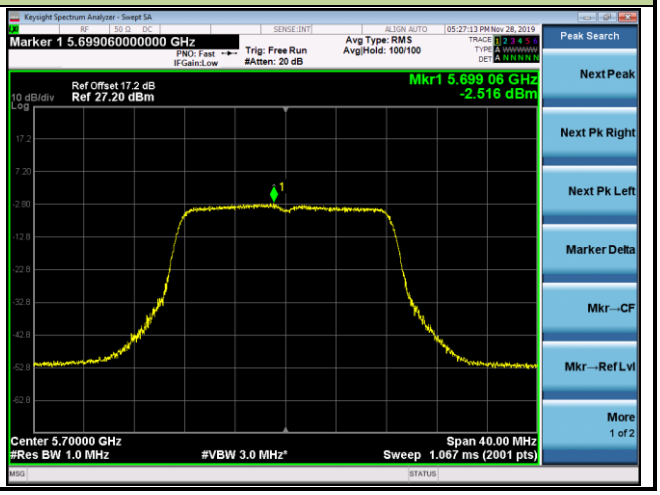


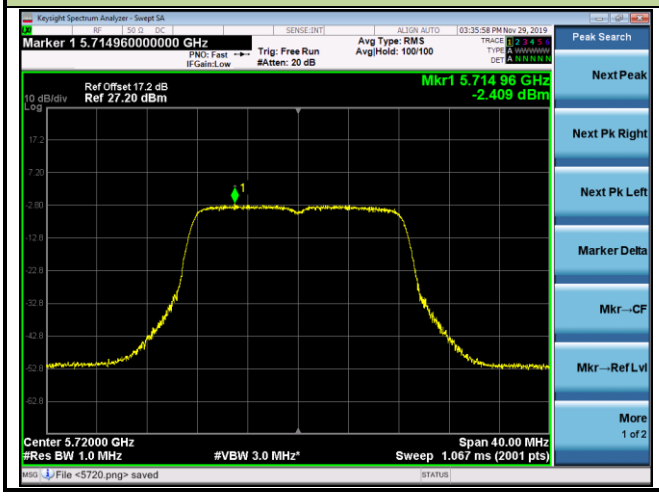
Channel 100 (5500MHz)



Channel 120 (5600MHz)

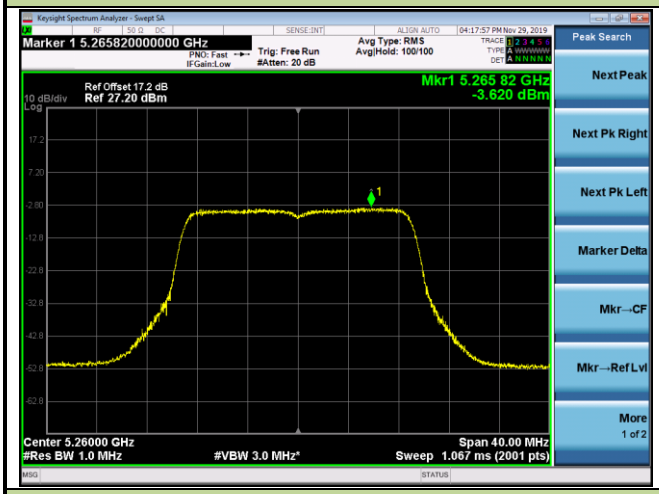
Channel 140 (5700MHz)



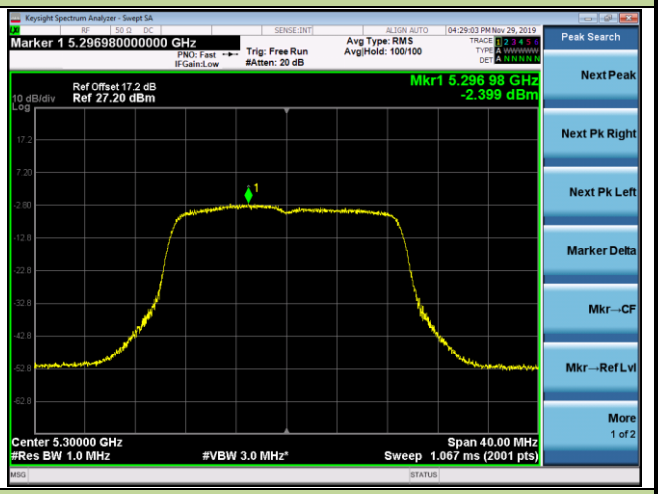
Channel 144 (5720MHz)	
	

802.11n-HT20 Power Spectral Density - Ant 1 / Ant 0 + 1 + 2 + 3

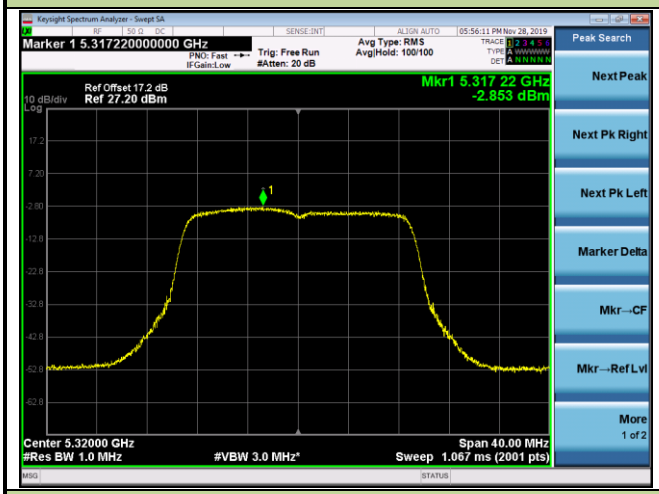
Channel 52 (5260MHz)



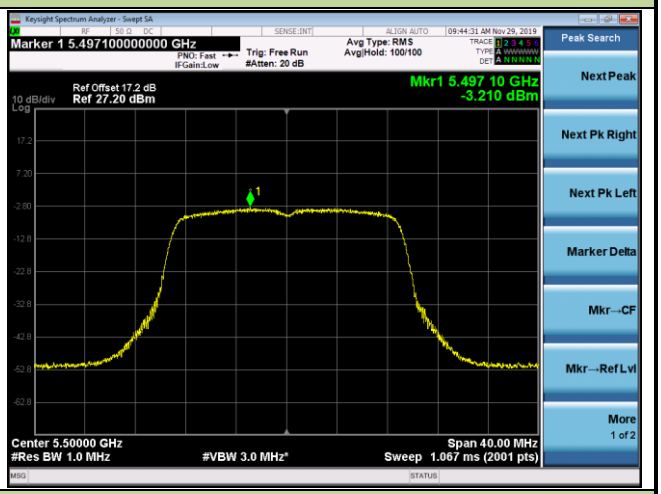
Channel 60 (5300MHz)



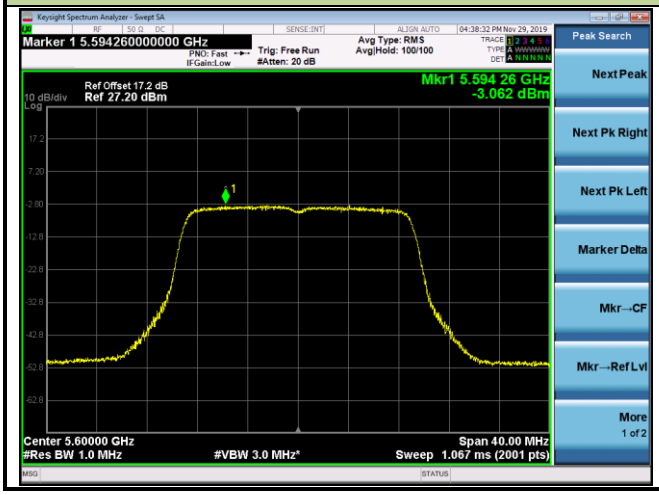
Channel 64 (5320MHz)



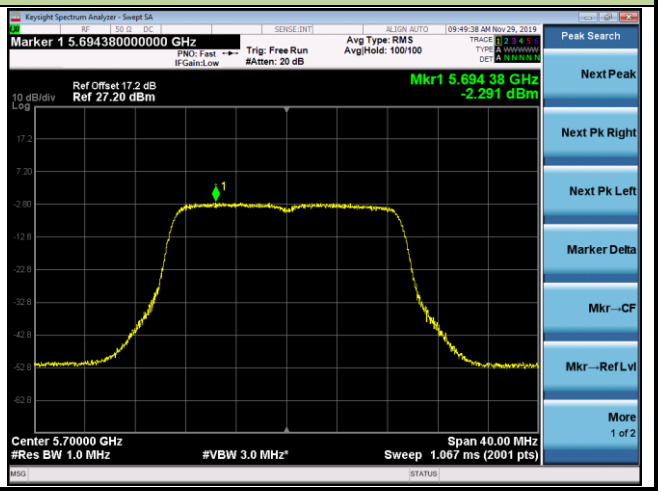
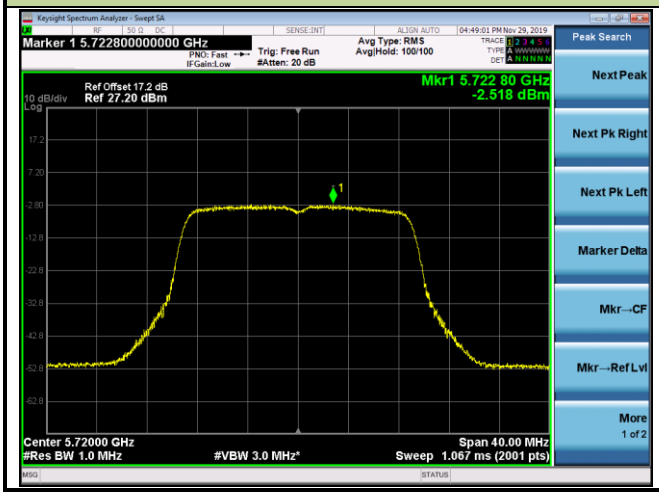
Channel 100 (5500MHz)



Channel 120 (5600MHz)



Channel 140 (5700MHz)



Channel 144 (5720MHz)