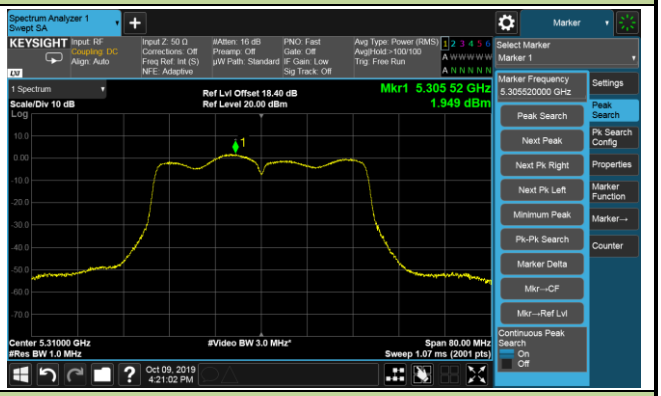
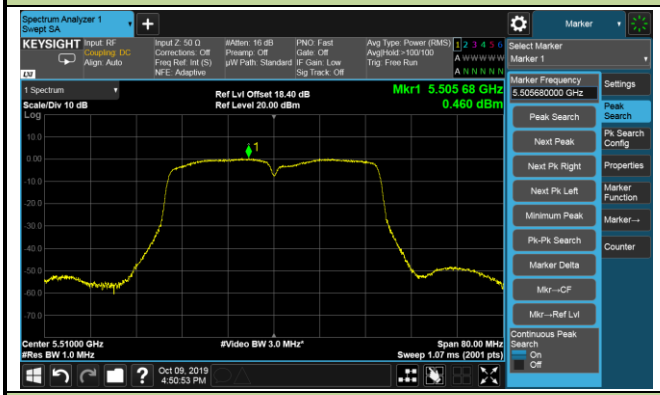
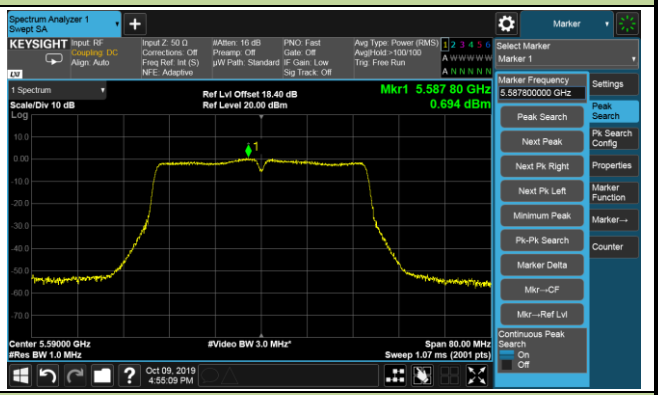
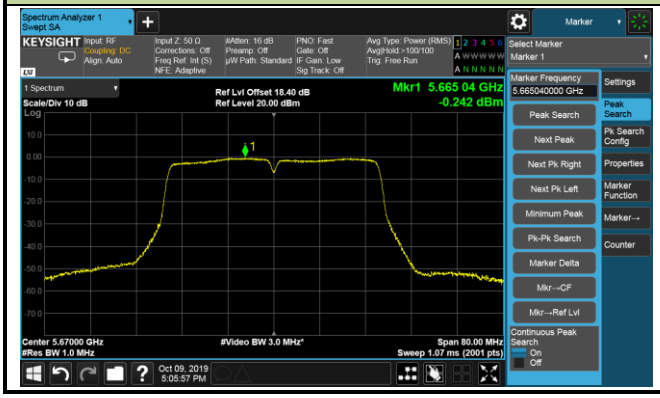
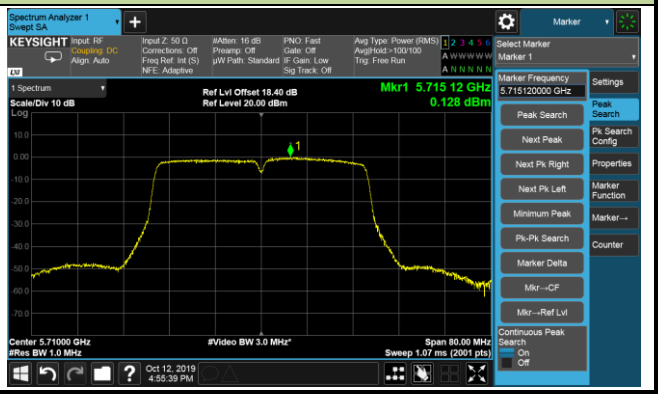
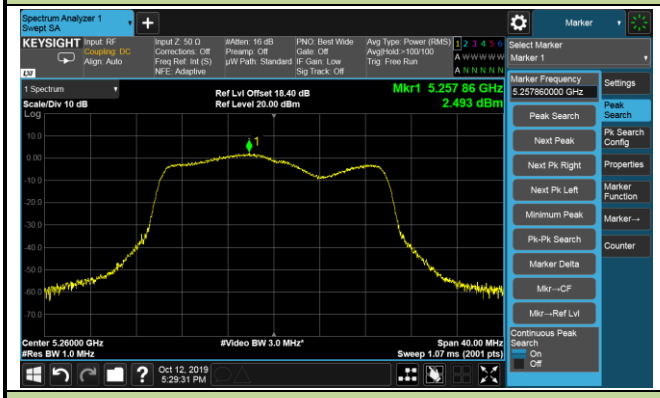
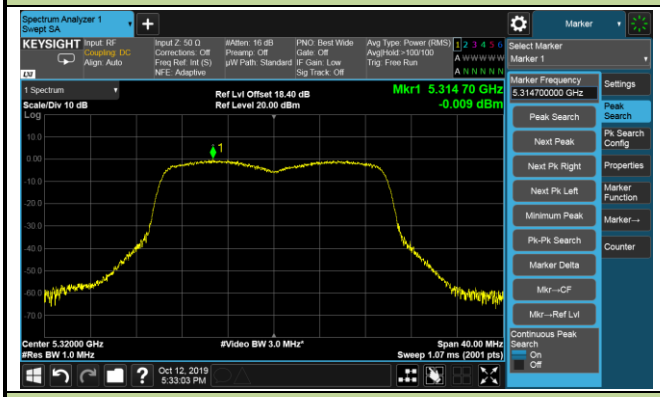
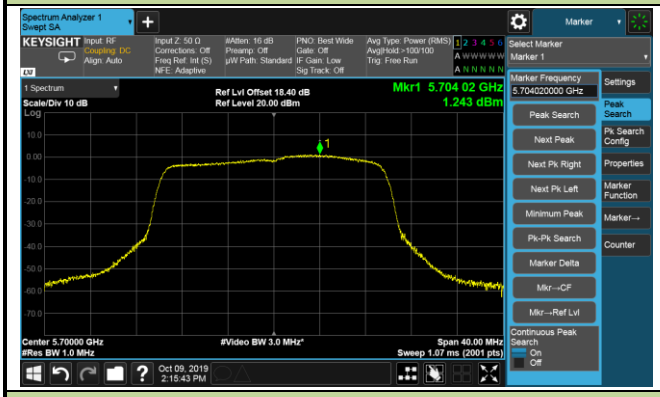
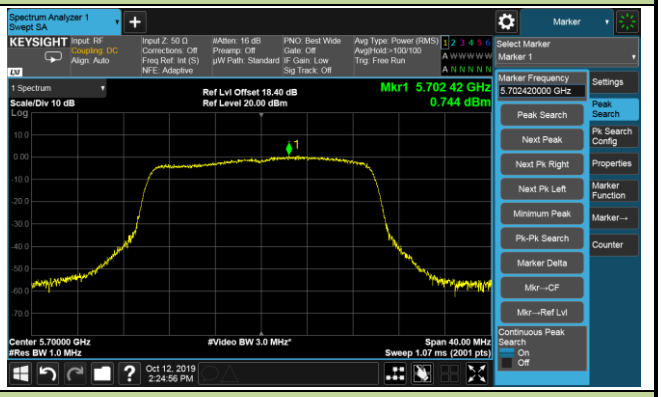
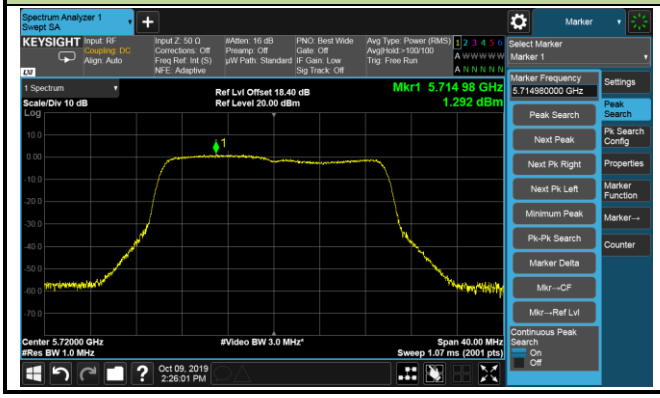
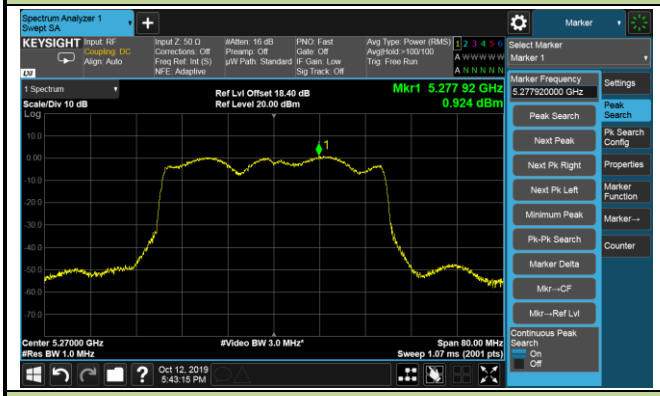
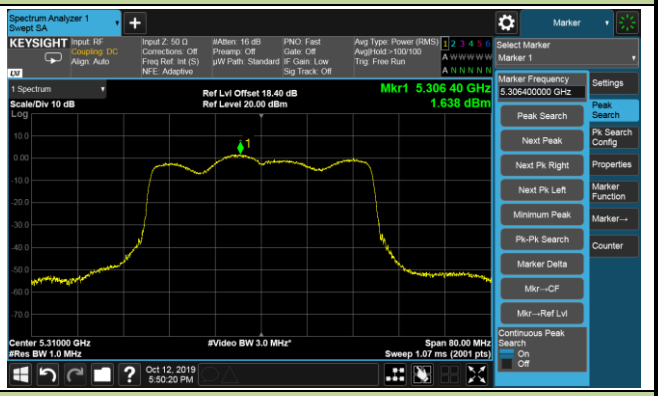
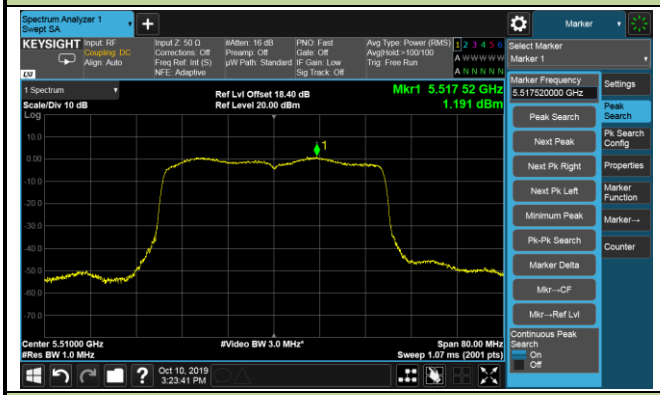
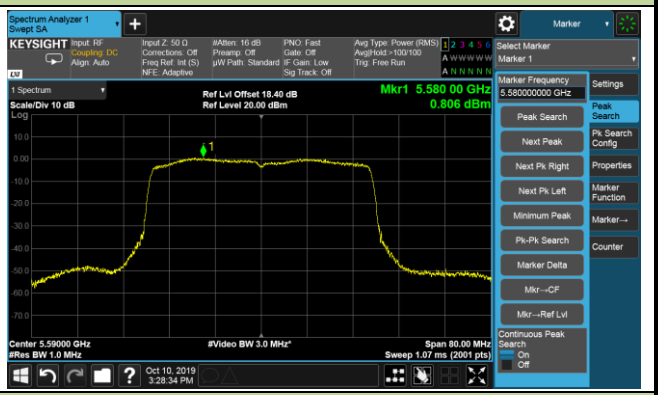
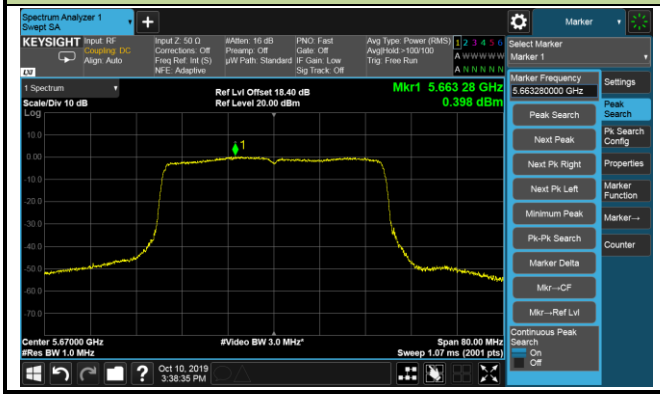
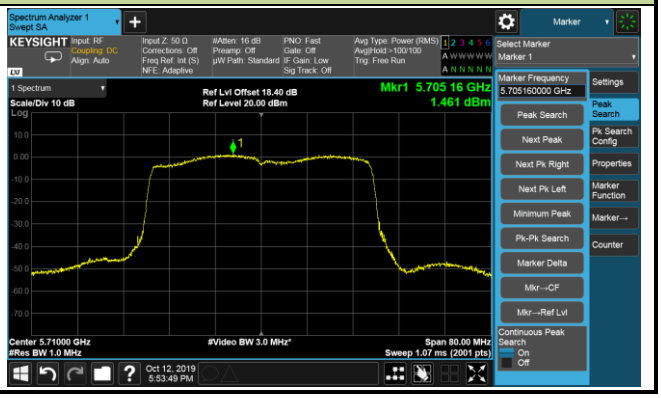
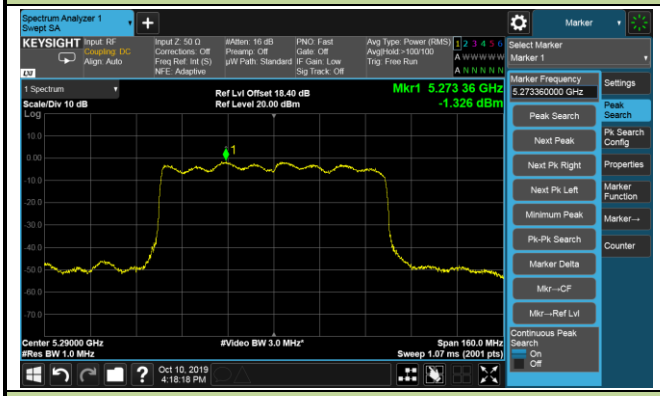
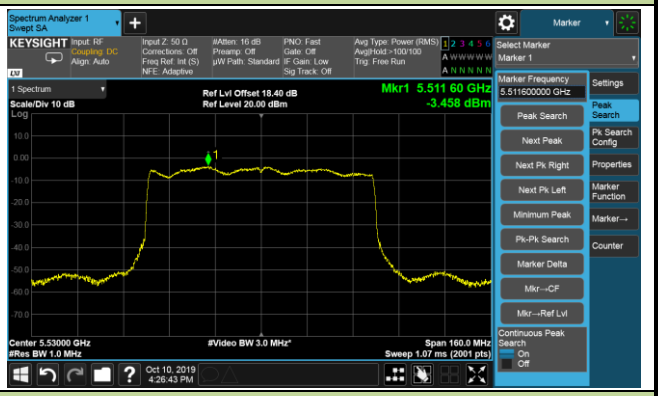
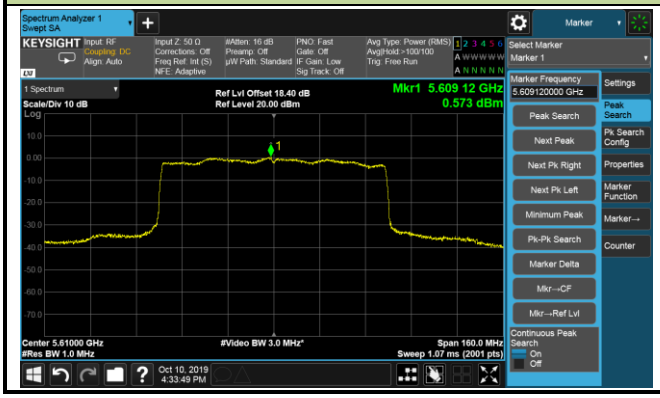
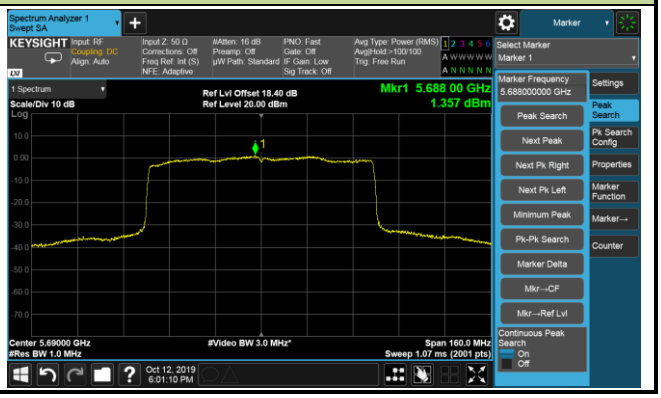
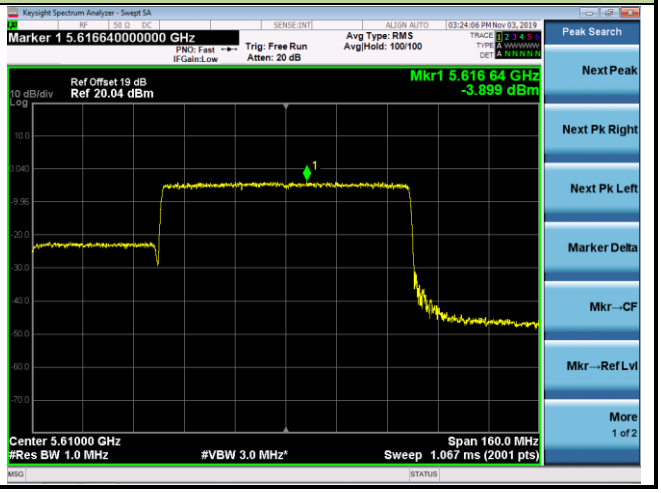
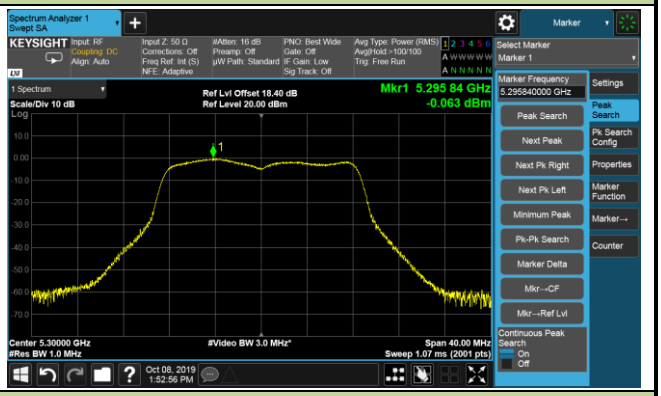
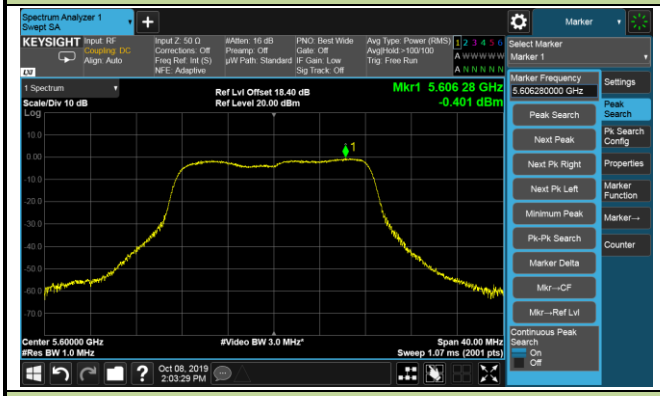
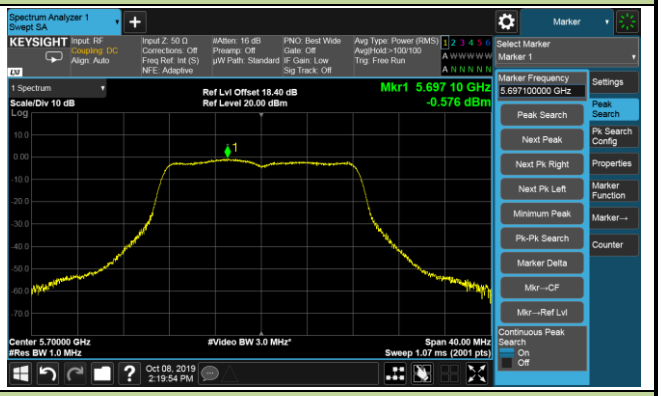
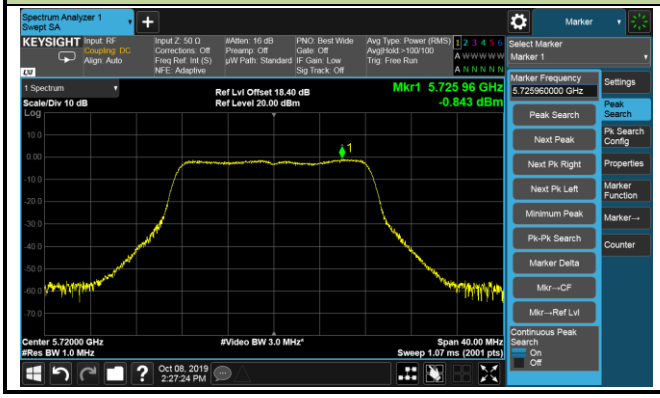
802.11n-HT40 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3	
Channel 54 (5270MHz)	Channel 62 (5310MHz)
	
Channel 102 (5510MHz)	Channel 118 (5590MHz)
	
Channel 134 (5670MHz)	Channel 142 (5710MHz)
	

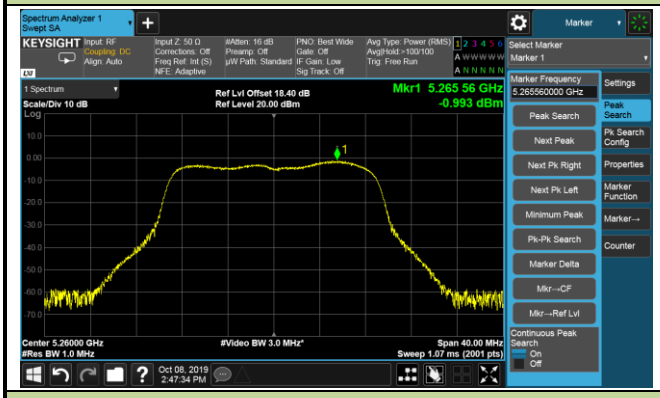
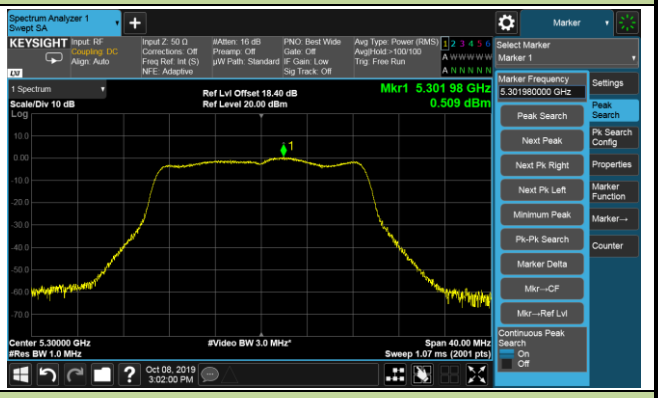
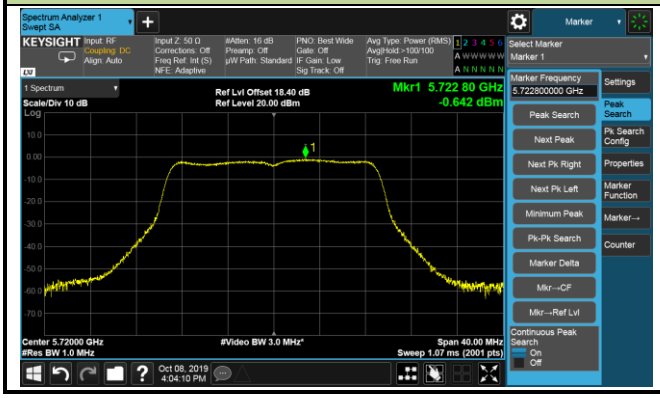
802.11ax-HE20 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3	
Channel 52 (5260MHz)	Channel 60 (5300MHz)
	
Channel 64 (5320MHz)	Channel 100 (5500MHz)
	
Channel 120 (5600MHz)	Channel 140 (5700MHz)
	
Channel 144 (5720MHz)	
	

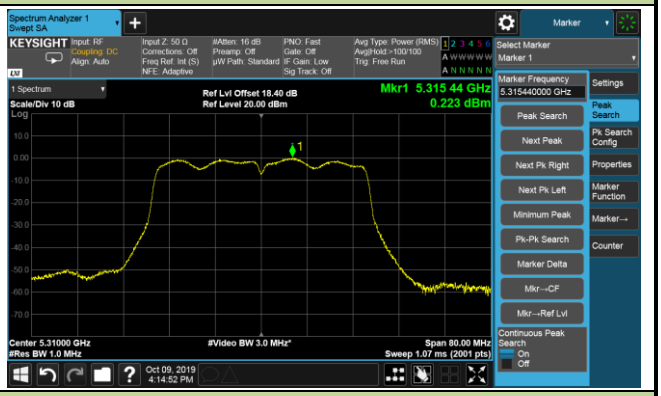
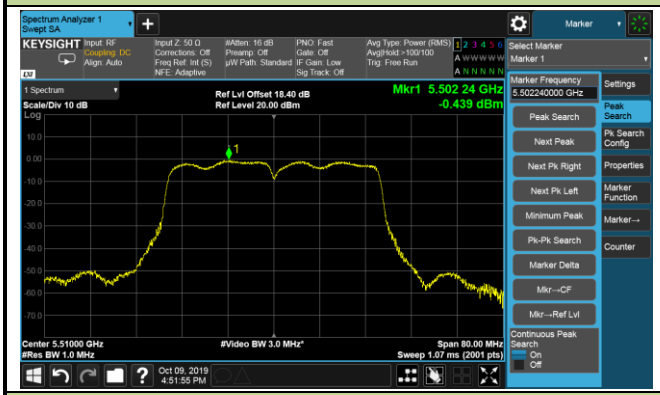
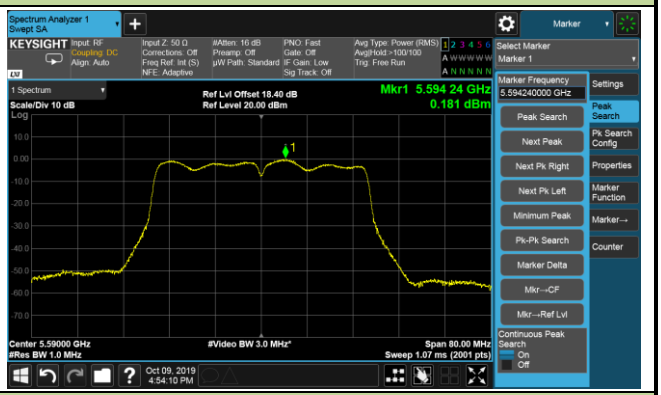
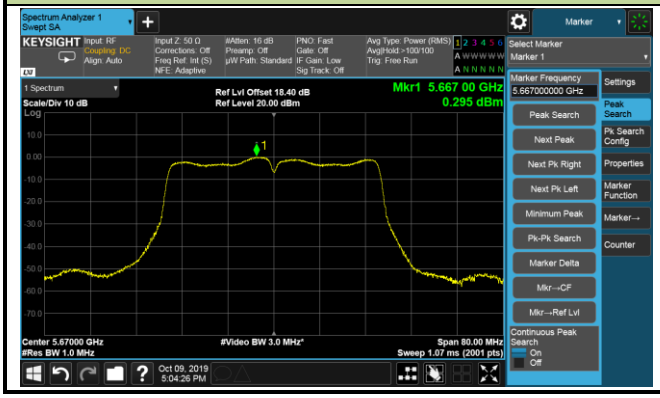
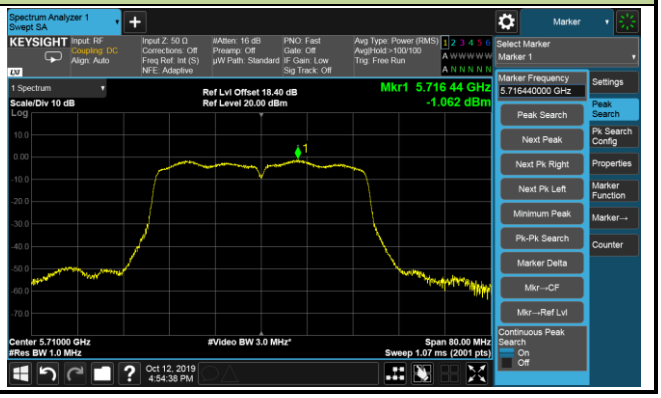
802.11ax-HE40 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3	
Channel 54 (5270MHz)	Channel 62 (5310MHz)
	
Channel 102 (5510MHz)	Channel 118 (5590MHz)
	
Channel 134 (5670MHz)	Channel 142 (5710MHz)
	

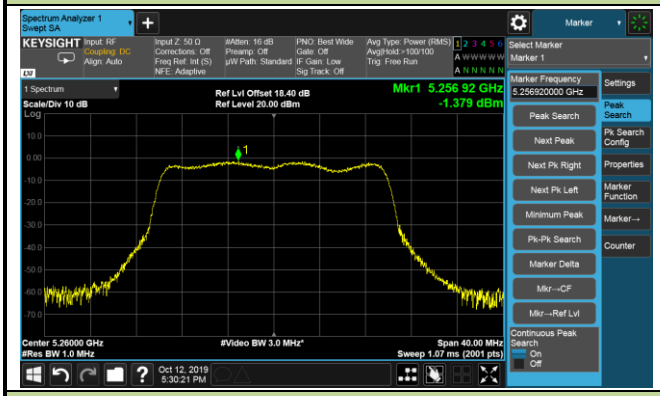
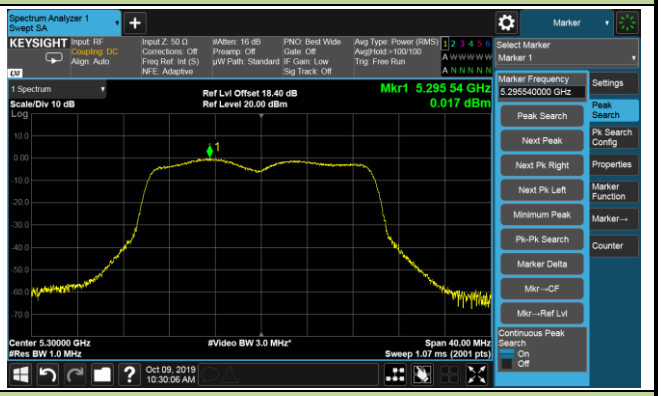
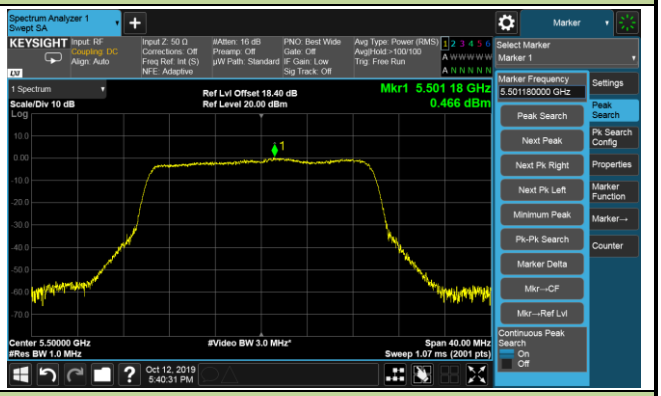
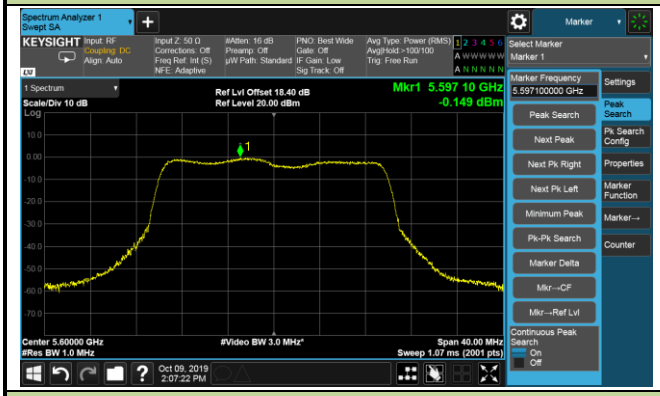
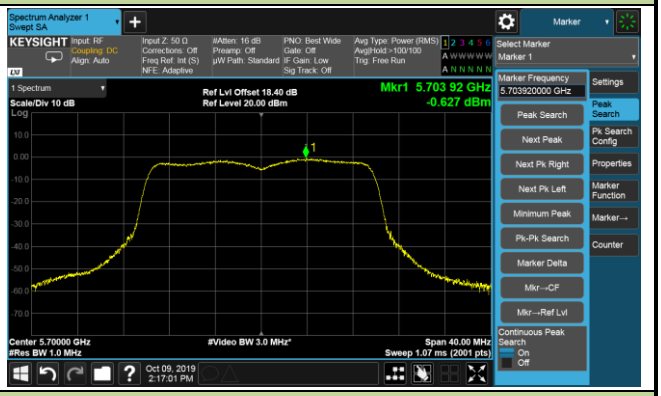
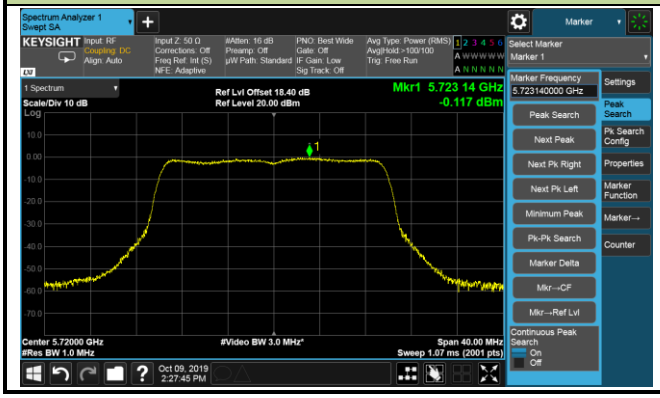
802.11ax-HE80 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3	
Channel 58 (5290MHz)	Channel 106 (5530MHz)
	
Channel 122 (5610MHz)	Channel 138 (5690MHz)
	

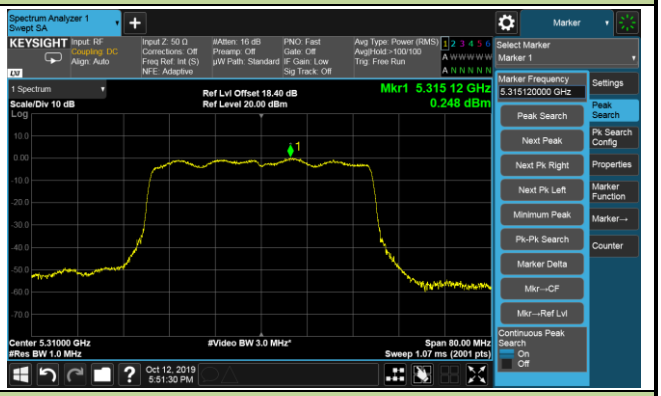
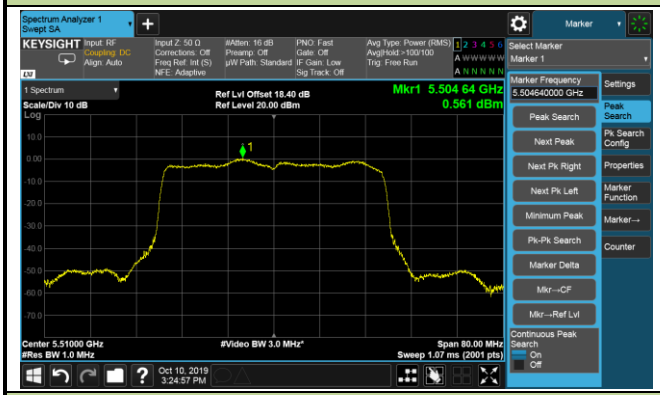
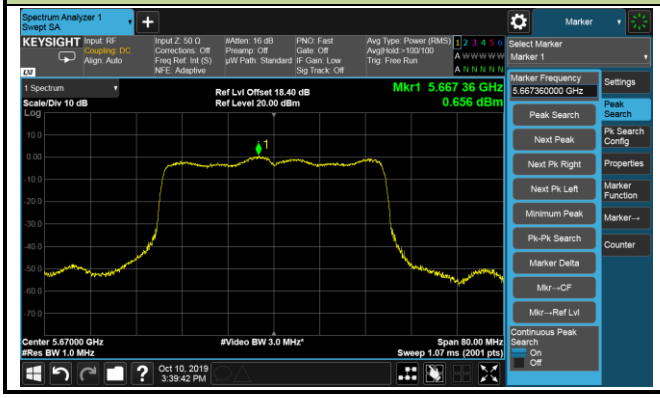
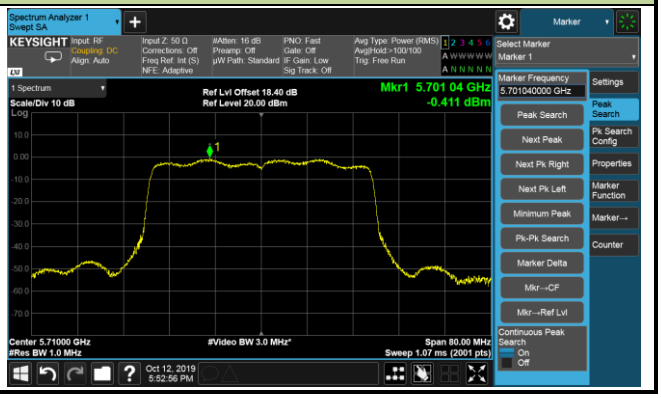
802.11ax-HE80 + 80 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3	
Channel 58 (5290MHz)	Channel 122 (5610MHz)
	

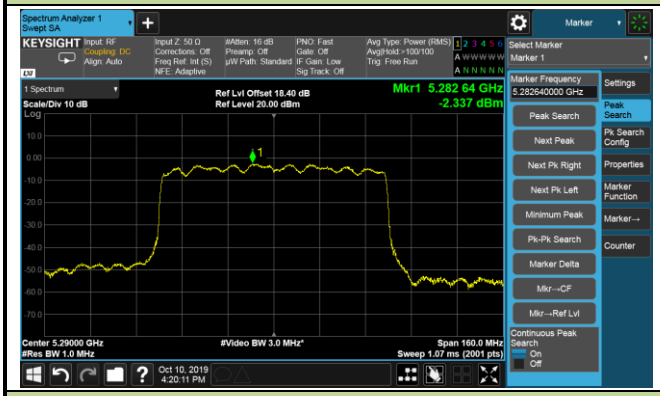
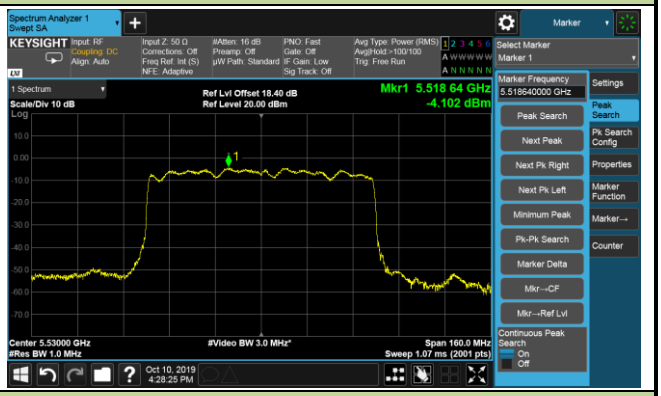
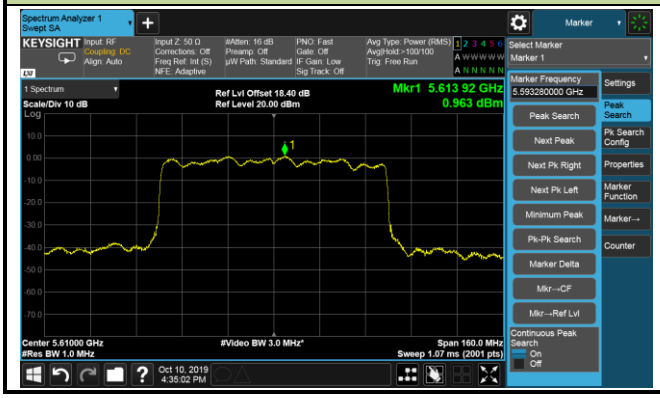
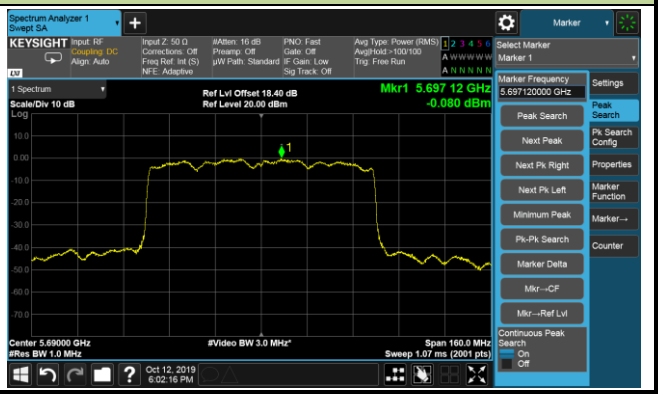
802.11a Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3	
Channel 52 (5260MHz)	Channel 60 (5300MHz)
	
Channel 64 (5320MHz)	Channel 100 (5500MHz)
	
Channel 120 (5600MHz)	Channel 140 (5700MHz)
	
Channel 144 (5720MHz)	
	

802.11n-HT20 Power Spectral Density - Ant 3 / 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 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-HE20 Power Spectral Density - Ant 3 / 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 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°C
Test Engineer	Amy Zhang	Relative Humidity	54%
Test Site	TR3	Test Date	2019/10/12
Configuration	AP 321e	Test Item	Power Spectral Density

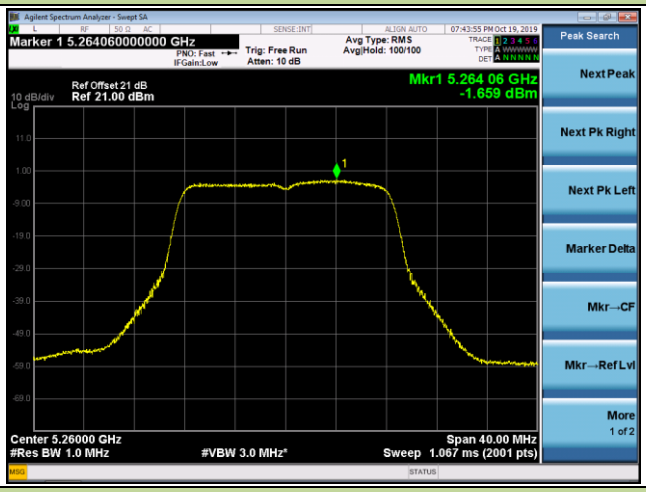
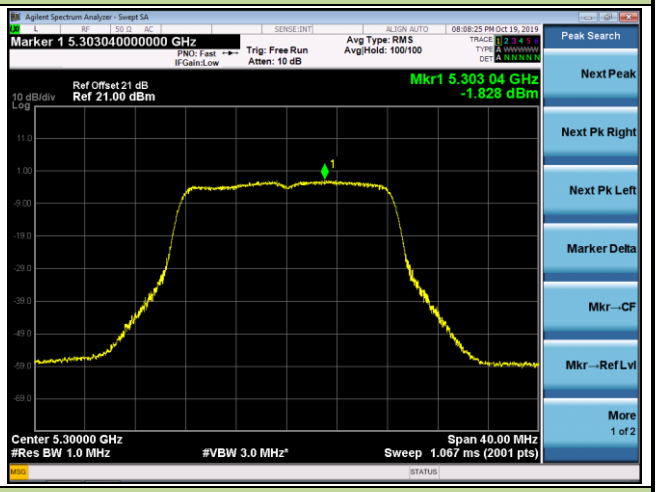
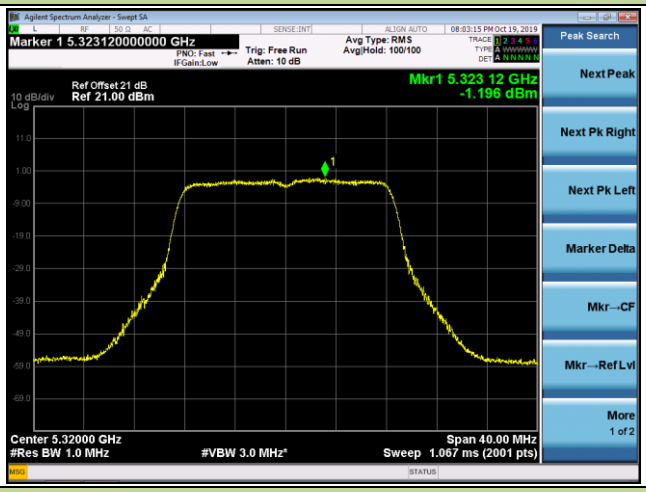
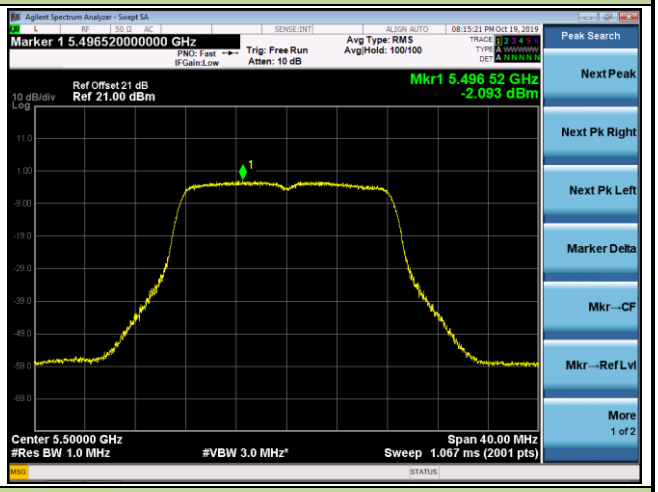
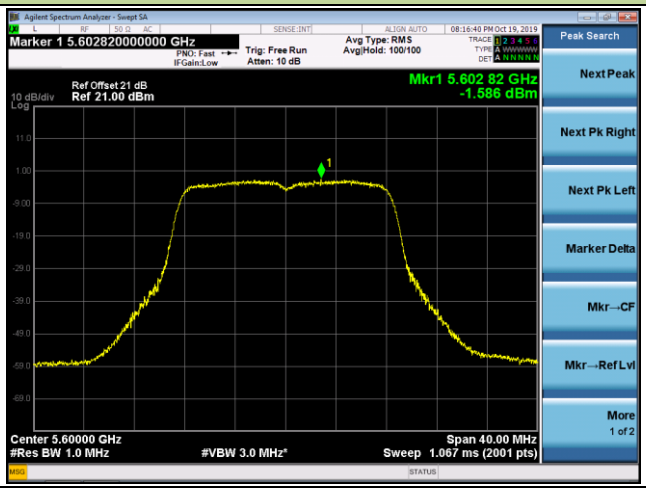
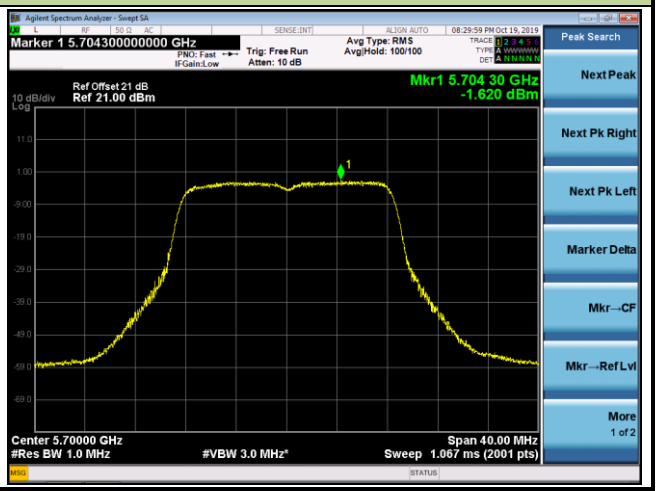
Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/ MHz)	Ant 1 PSD (dBm/ MHz)	Ant 2 PSD (dBm/ MHz)	Ant 3 PSD (dBm/ MHz)	Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/MHz)	Result
Ant 0 + 1 + 2 + 3											
11a	6Mbps	52	5260	-1.66	-1.65	-2.54	-1.99	92.45	4.42	≤ 4.98	Pass
11a	6Mbps	60	5300	-1.83	-2.35	-1.37	-1.77	92.45	4.55	≤ 4.98	Pass
11a	6Mbps	64	5320	-1.20	-1.82	-2.11	-1.43	92.45	4.74	≤ 4.98	Pass
11a	6Mbps	100	5500	-2.09	-2.41	-2.48	-1.86	92.45	4.16	≤ 4.98	Pass
11a	6Mbps	120	5600	-1.59	-2.73	-1.05	-1.47	92.45	4.70	≤ 4.98	Pass
11a	6Mbps	140	5700	-1.62	-2.14	-0.80	-1.92	92.45	4.77	≤ 4.98	Pass
11a	6Mbps	144	5720	-1.75	-2.63	-1.22	-2.10	92.45	4.47	≤ 4.98	Pass
11n-HT20	MCS0	52	5260	-1.58	-1.68	-1.79	-1.07	94.76	4.73	≤ 4.98	Pass
11n-HT20	MCS0	60	5300	-1.78	-1.68	-1.78	-1.93	94.76	4.46	≤ 4.98	Pass
11n-HT20	MCS0	64	5320	-2.21	-1.14	-2.16	-1.42	94.76	4.55	≤ 4.98	Pass
11n-HT20	MCS0	100	5500	-1.18	-1.53	-1.24	-1.76	94.76	4.83	≤ 4.98	Pass
11n-HT20	MCS0	120	5600	-2.35	-0.96	-4.07	-1.06	94.76	4.31	≤ 4.98	Pass
11n-HT20	MCS0	140	5700	-1.47	-1.23	-1.14	-2.06	94.76	4.79	≤ 4.98	Pass
11n-HT20	MCS0	144	5720	-1.24	-1.26	-0.96	-2.67	94.76	4.77	≤ 4.98	Pass
11n-HT40	MCS0	54	5270	-2.17	-2.41	-2.06	-2.15	91.27	4.22	≤ 4.98	Pass
11n-HT40	MCS0	62	5310	-2.10	-2.35	-2.55	-2.46	91.27	4.06	≤ 4.98	Pass
11n-HT40	MCS0	102	5510	-2.84	-2.13	-1.55	-2.37	91.27	4.22	≤ 4.98	Pass
11n-HT40	MCS0	118	5590	-2.02	-1.81	-1.61	-2.51	91.27	4.45	≤ 4.98	Pass
11n-HT40	MCS0	134	5670	-1.91	-2.08	-2.02	-2.64	91.27	4.26	≤ 4.98	Pass
11n-HT40	MCS0	142	5710	-1.66	-1.63	-0.99	-2.85	91.27	4.58	≤ 4.98	Pass
11ax-HE20	MCS0	52	5260	-1.30	-1.58	-1.92	-1.32	93.33	4.80	≤ 4.98	Pass
11ax-HE20	MCS0	60	5300	-1.82	-2.55	-0.88	-1.55	93.33	4.66	≤ 4.98	Pass
11ax-HE20	MCS0	64	5320	-1.58	-2.21	-1.34	-1.52	93.33	4.67	≤ 4.98	Pass
11ax-HE20	MCS0	100	5500	-1.77	-2.14	-1.58	-1.72	93.33	4.52	≤ 4.98	Pass
11ax-HE20	MCS0	120	5600	-1.24	-1.81	-1.14	-1.38	93.33	4.94	≤ 4.98	Pass
11ax-HE20	MCS0	140	5700	-1.78	-2.22	-1.28	-1.78	93.33	4.57	≤ 4.98	Pass
11ax-HE20	MCS0	144	5720	-2.31	-2.30	-0.94	-1.61	93.33	4.57	≤ 4.98	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 (CDD Mode)											
11ax-HE40	MCS0	54	5270	-1.33	-1.60	-1.52	-2.00	92.53	4.75	≤ 4.98	Pass
11ax-HE40	MCS0	62	5310	-2.26	-1.94	-1.65	-2.03	92.53	4.39	≤ 4.98	Pass
11ax-HE40	MCS0	102	5510	-1.83	-1.89	-1.69	-1.96	92.53	4.52	≤ 4.98	Pass
11ax-HE40	MCS0	118	5590	-1.77	-1.80	-1.73	-1.30	92.53	4.71	≤ 4.98	Pass
11ax-HE40	MCS0	134	5670	-1.91	-2.04	-1.80	-1.73	92.53	4.49	≤ 4.98	Pass
11ax-HE40	MCS0	142	5710	-1.44	-2.02	-1.68	-1.04	92.53	4.83	≤ 4.98	Pass
11ax-HE80	MCS0	58	5290	-1.35	-1.76	-1.29	-1.65	94.13	4.77	≤ 4.98	Pass
11ax-HE80	MCS0	106	5530	-1.47	-1.25	-1.85	-1.00	94.13	4.80	≤ 4.98	Pass
11ax-HE80	MCS0	122	5610	-1.72	-1.84	-1.60	-1.62	94.13	4.59	≤ 4.98	Pass
11ax-HE80	MCS0	138	5690	-2.03	-1.78	-1.90	-1.27	94.13	4.55	≤ 4.98	Pass
11ax-HE80 + 80	MCS0	42	5210	-2.70	-3.55			94.57	2.74	≤ 4.98	Pass
		58	5290			-3.25	-5.09				
11ax-HE80 + 80	MCS0	106	5530	-1.98	-2.27			94.57	4.43	≤ 4.98	Pass
		122	5610			-2.03	-1.32				

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/duty cycle)

Note 3: PSD Limit (dBm/MHz) = 11dBm/MHz - (12.02dBi - 6dBi) = 4.98dBm/MHz.

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)
	

802.11a Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3	
Channel 144 (5720MHz)