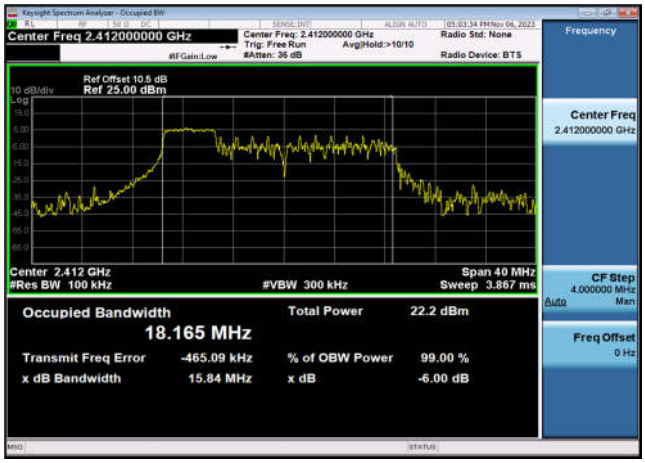
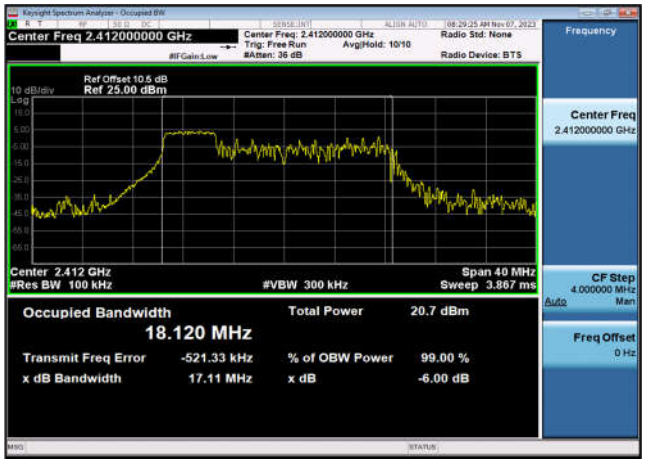
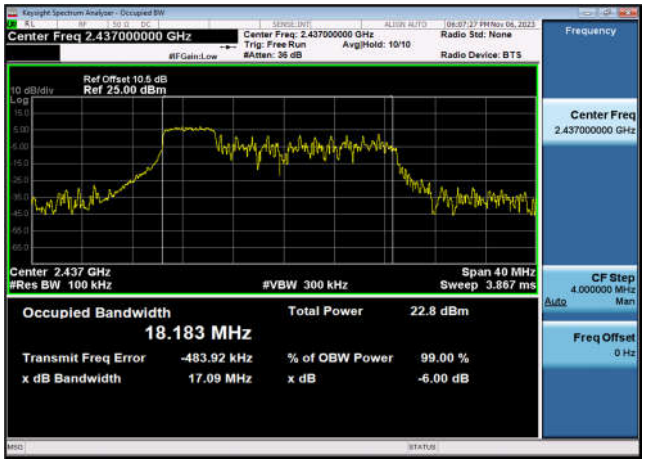
6dB Bandwidth-802.11ax(HE20_RU52_1),2412MHz,Ant7



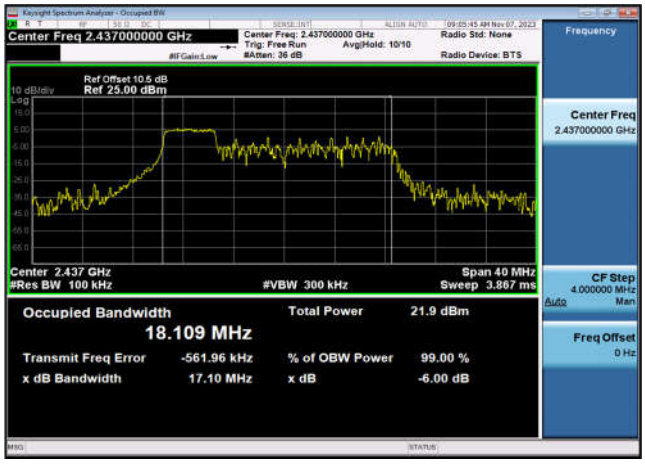
6dB Bandwidth-802.11ax(HE20_RU52_1),2412MHz,Ant6



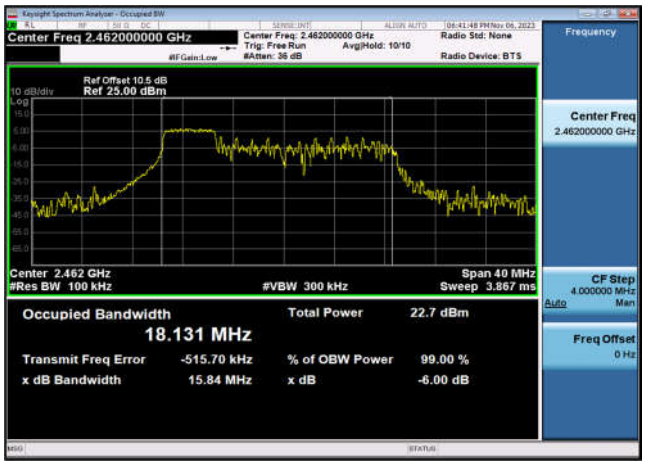
6dB Bandwidth-802.11ax(HE20_RU52_1),2437MHz,Ant7



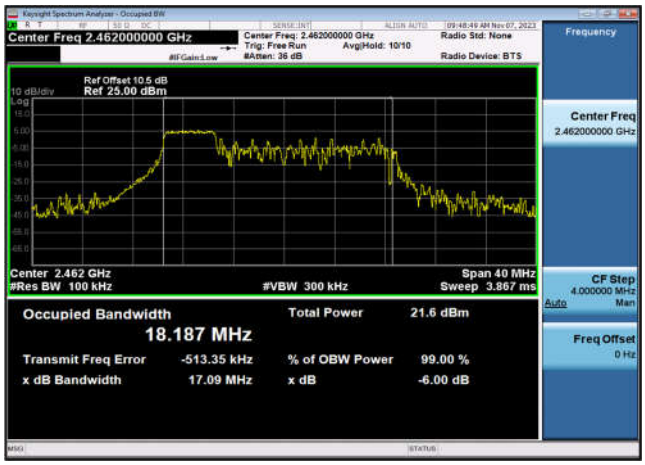
6dB Bandwidth-802.11ax(HE20_RU52_1),2437MHz,Ant6



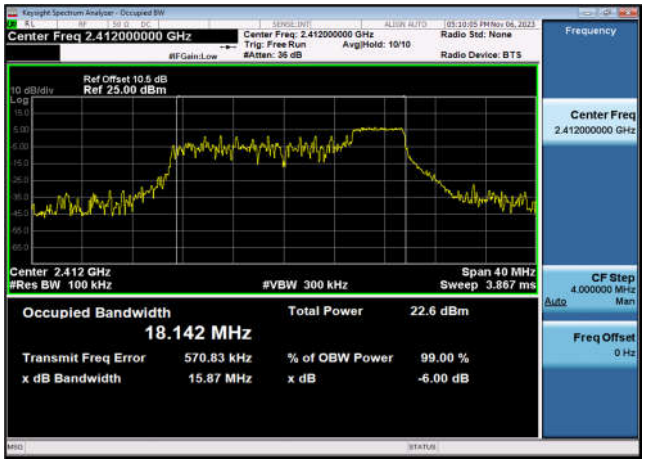
6dB Bandwidth-802.11ax(HE20_RU52_1),2462MHz,Ant7



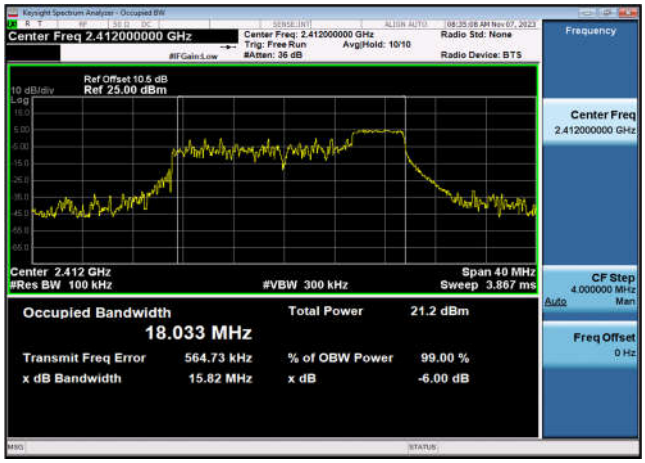
6dB Bandwidth-802.11ax(HE20_RU52_1),2462MHz,Ant6



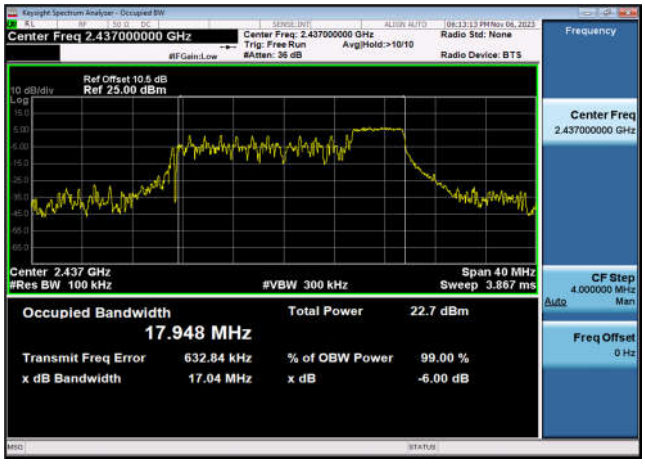
6dB Bandwidth-802.11ax(HE20_RU52_4),2412MHz,Ant7



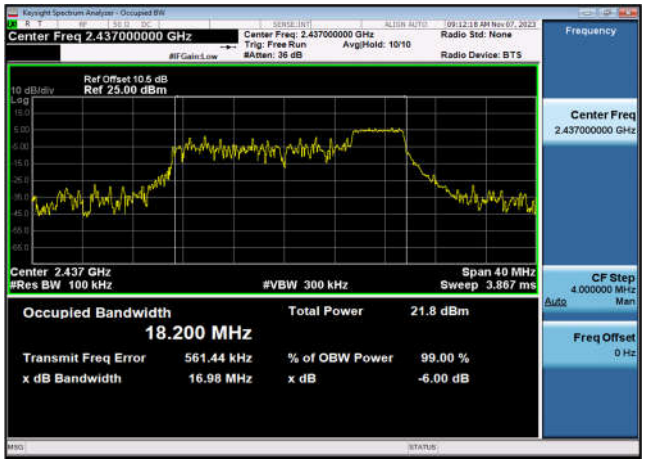
6dB Bandwidth-802.11ax(HE20_RU52_4),2412MHz,Ant6



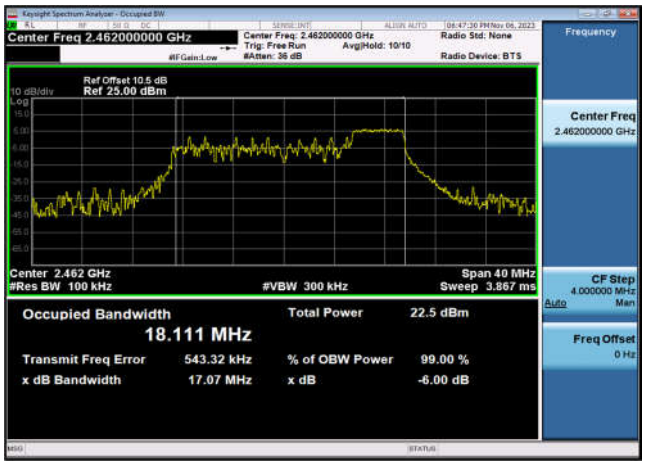
6dB Bandwidth-802.11ax(HE20_RU52_4),2437MHz,Ant7



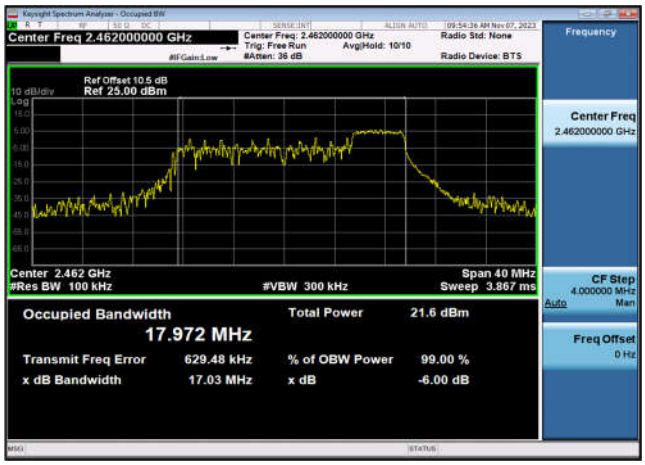
6dB Bandwidth-802.11ax(HE20_RU52_4),2437MHz,Ant6



6dB Bandwidth-802.11ax(HE20_RU52_4),2462MHz,Ant7



6dB Bandwidth-802.11ax(HE20_RU52_4),2462MHz,Ant6



99% Occupied Bandwidth

Test Result and Data

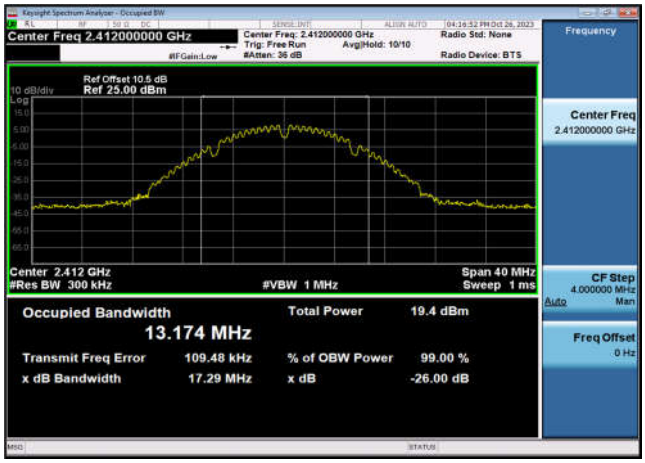
WLAN 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant7	13.174	Pass
802.11b	2412	Ant6	13.107	Pass
802.11b	2437	Ant7	13.193	Pass
802.11b	2437	Ant6	13.268	Pass
802.11b	2462	Ant7	13.170	Pass
802.11b	2462	Ant6	13.186	Pass
802.11g	2412	Ant7	17.171	Pass
802.11g	2412	Ant6	17.096	Pass
802.11g	2437	Ant7	17.194	Pass
802.11g	2437	Ant6	17.227	Pass
802.11g	2462	Ant7	17.120	Pass
802.11g	2462	Ant6	17.133	Pass
802.11n (HT20)	2412	Ant7	18.154	Pass
802.11n (HT20)	2412	Ant6	18.113	Pass
802.11n (HT20)	2437	Ant7	18.188	Pass
802.11n (HT20)	2437	Ant6	18.230	Pass
802.11n (HT20)	2462	Ant7	18.151	Pass
802.11n (HT20)	2462	Ant6	18.134	Pass
802.11n (HT40)	2422	Ant7	37.483	Pass
802.11n (HT40)	2422	Ant6	37.280	Pass
802.11n (HT40)	2437	Ant7	37.664	Pass
802.11n (HT40)	2437	Ant6	37.842	Pass
802.11n (HT40)	2452	Ant7	37.625	Pass
802.11n (HT40)	2452	Ant6	37.715	Pass
802.11ax (HE20)	2412	Ant7	19.196	Pass
802.11ax (HE20)	2412	Ant6	19.188	Pass
802.11ax (HE20)	2437	Ant7	19.233	Pass
802.11ax (HE20)	2437	Ant6	19.217	Pass
802.11ax (HE20)	2462	Ant7	19.211	Pass
802.11ax (HE20)	2462	Ant6	19.166	Pass

802.11ax (HE40)	2422	Ant7	38.562	Pass
802.11ax (HE40)	2422	Ant6	38.297	Pass
802.11ax (HE40)	2437	Ant7	38.603	Pass
802.11ax (HE40)	2437	Ant6	38.780	Pass
802.11ax (HE40)	2452	Ant7	38.530	Pass
802.11ax (HE40)	2452	Ant6	38.621	Pass

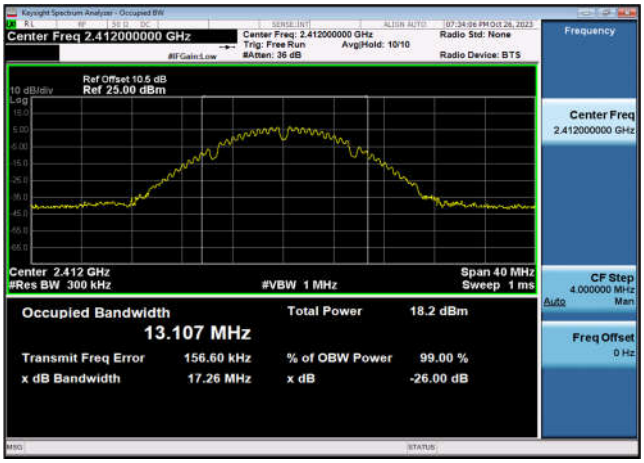
WLAN 99% Occupied Bandwidth - Tone RU mode				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11ax (HE20_RU106_1)	2412	Ant7	18.316	Pass
802.11ax (HE20_RU106_1)	2412	Ant6	18.307	Pass
802.11ax (HE20_RU106_1)	2437	Ant7	18.367	Pass
802.11ax (HE20_RU106_1)	2437	Ant6	18.360	Pass
802.11ax (HE20_RU106_1)	2462	Ant7	18.333	Pass
802.11ax (HE20_RU106_1)	2462	Ant6	18.289	Pass
802.11ax (HE20_RU106_2)	2412	Ant7	18.330	Pass
802.11ax (HE20_RU106_2)	2412	Ant6	18.204	Pass
802.11ax (HE20_RU106_2)	2437	Ant7	18.368	Pass
802.11ax (HE20_RU106_2)	2437	Ant6	18.404	Pass
802.11ax (HE20_RU106_2)	2462	Ant7	18.376	Pass
802.11ax (HE20_RU106_2)	2462	Ant6	18.328	Pass
802.11ax (HE20_RU26_1)	2412	Ant7	18.771	Pass
802.11ax (HE20_RU26_1)	2412	Ant6	18.688	Pass
802.11ax (HE20_RU26_1)	2437	Ant7	18.757	Pass

802.11ax (HE20_RU26_1)	2437	Ant6	18.805	Pass
802.11ax (HE20_RU26_1)	2462	Ant7	18.722	Pass
802.11ax (HE20_RU26_1)	2462	Ant6	18.635	Pass
802.11ax (HE20_RU26_9)	2412	Ant7	18.312	Pass
802.11ax (HE20_RU26_9)	2412	Ant6	18.400	Pass
802.11ax (HE20_RU26_9)	2437	Ant7	18.537	Pass
802.11ax (HE20_RU26_9)	2437	Ant6	18.393	Pass
802.11ax (HE20_RU26_9)	2462	Ant7	18.463	Pass
802.11ax (HE20_RU26_9)	2462	Ant6	18.433	Pass
802.11ax (HE20_RU52_1)	2412	Ant7	18.406	Pass
802.11ax (HE20_RU52_1)	2412	Ant6	18.480	Pass
802.11ax (HE20_RU52_1)	2437	Ant7	18.218	Pass
802.11ax (HE20_RU52_1)	2437	Ant6	18.355	Pass
802.11ax (HE20_RU52_1)	2462	Ant7	18.379	Pass
802.11ax (HE20_RU52_1)	2462	Ant6	18.211	Pass
802.11ax (HE20_RU52_4)	2412	Ant7	18.327	Pass
802.11ax (HE20_RU52_4)	2412	Ant6	18.250	Pass
802.11ax (HE20_RU52_4)	2437	Ant7	18.420	Pass
802.11ax (HE20_RU52_4)	2437	Ant6	18.402	Pass
802.11ax (HE20_RU52_4)	2462	Ant7	18.392	Pass
802.11ax (HE20_RU52_4)	2462	Ant6	18.312	Pass

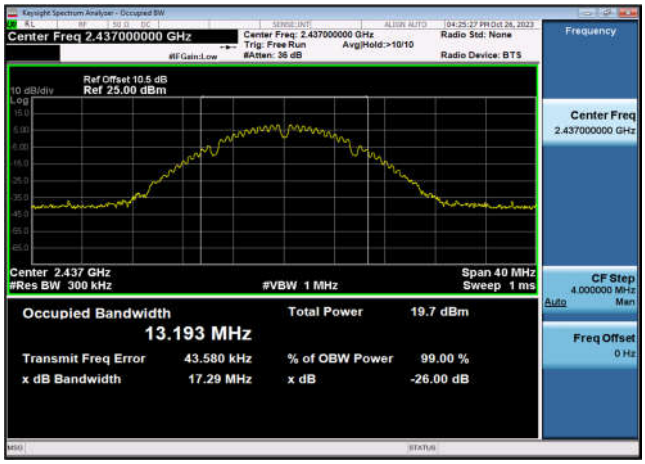
99% Bandwidth-802.11b,2412MHz,Ant7



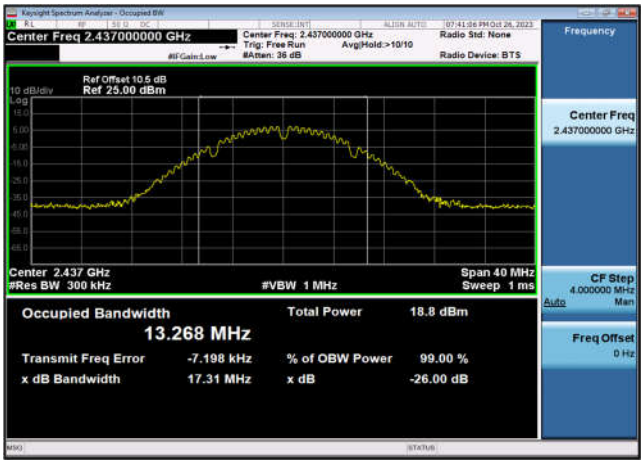
99% Bandwidth-802.11b,2412MHz,Ant6



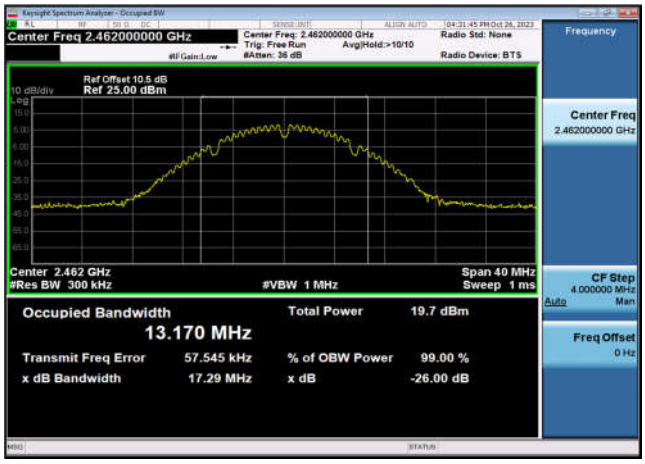
99% Bandwidth-802.11b,2437MHz,Ant7



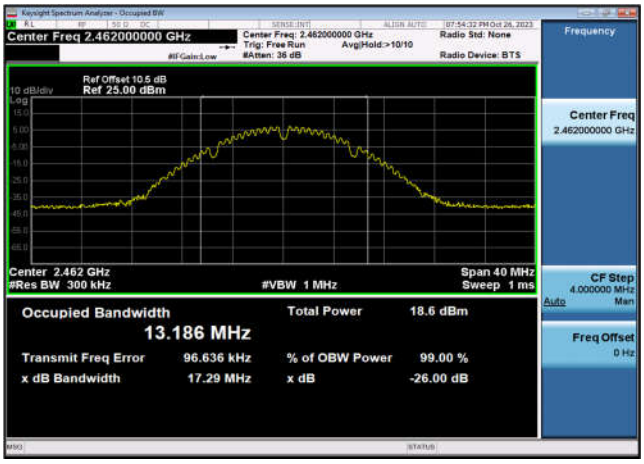
99% Bandwidth-802.11b,2437MHz,Ant6



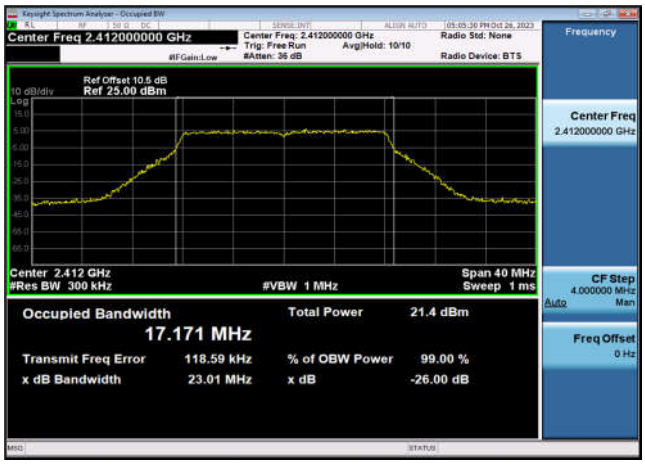
99% Bandwidth-802.11b,2462MHz,Ant7



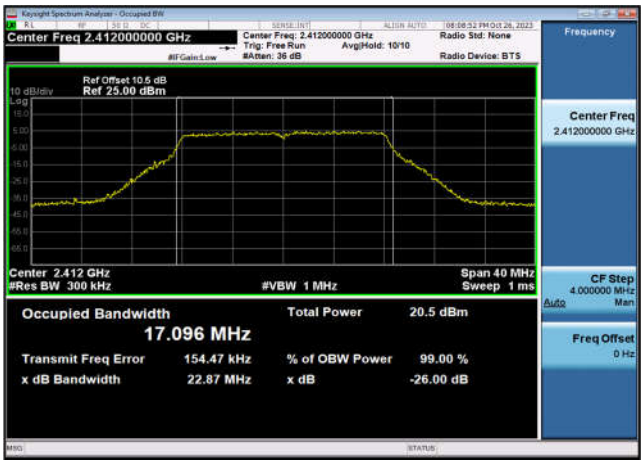
99% Bandwidth-802.11b,2462MHz,Ant6



99% Bandwidth-802.11g,2412MHz,Ant7

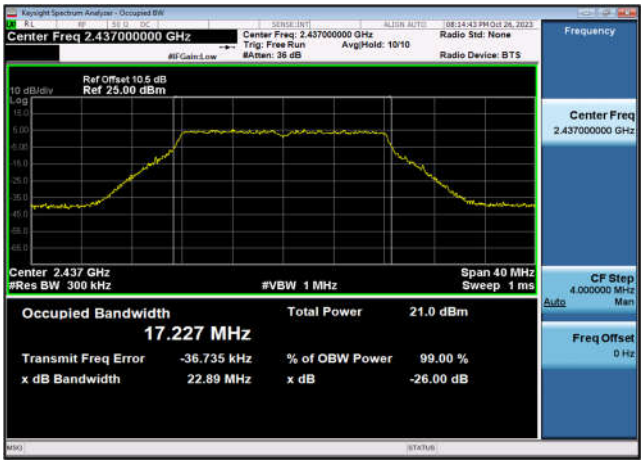


99% Bandwidth-802.11g,2412MHz,Ant6



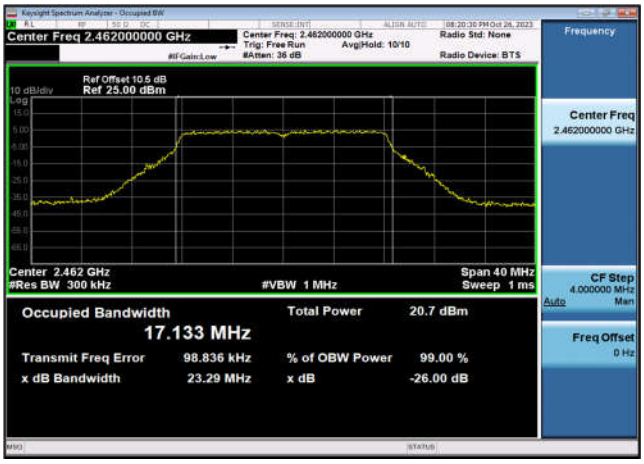
99% Bandwidth-802.11g,2437MHz,Ant7

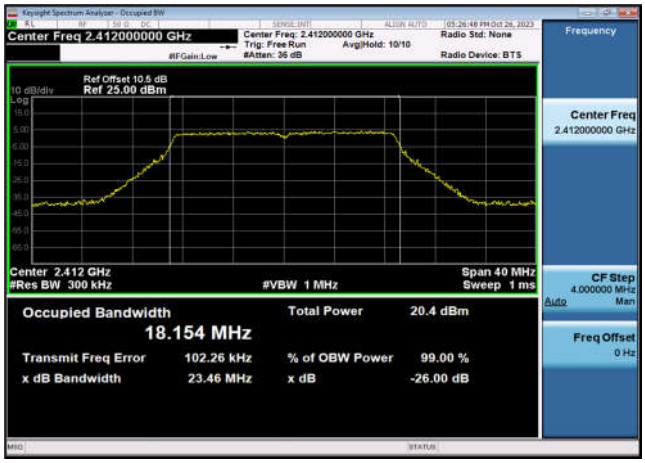
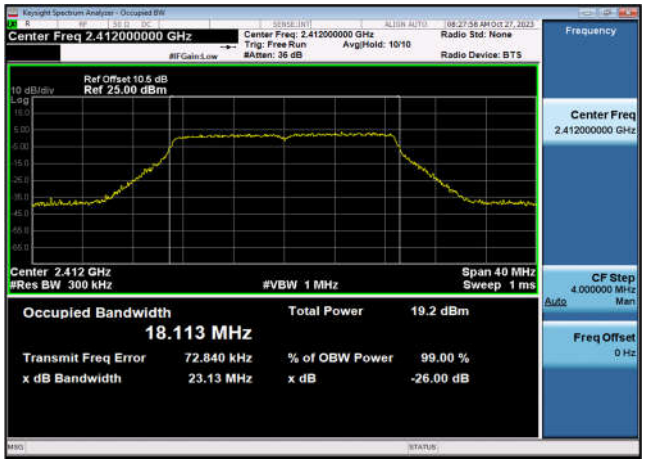
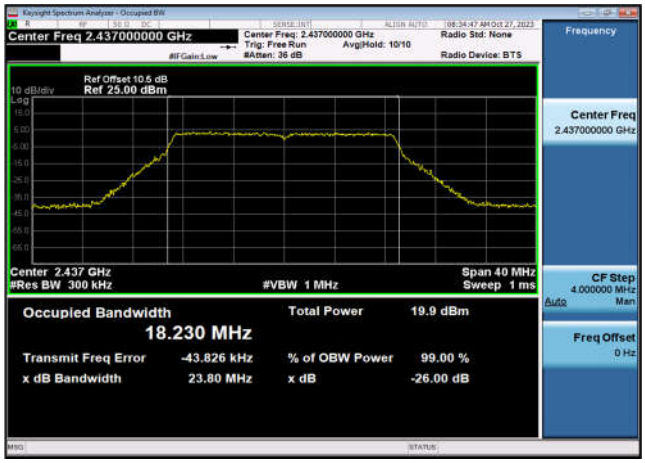
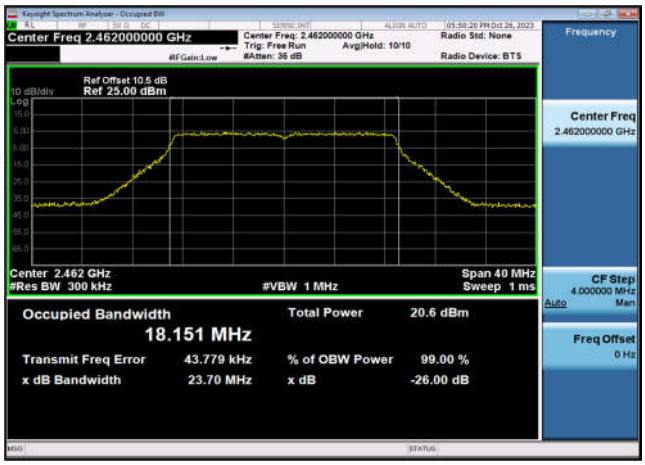
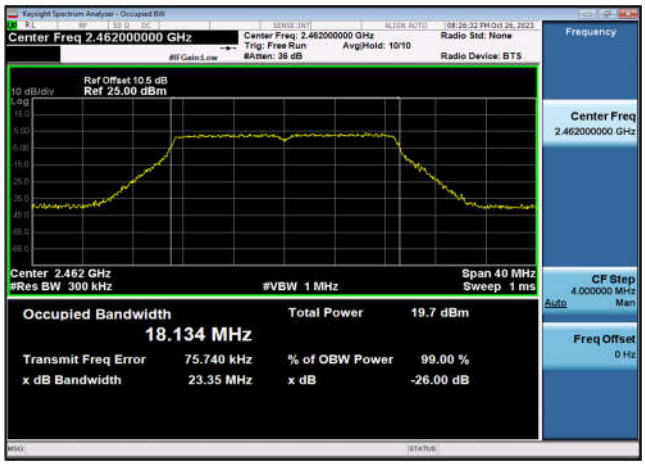
99% Bandwidth-802.11g,2437MHz,Ant6

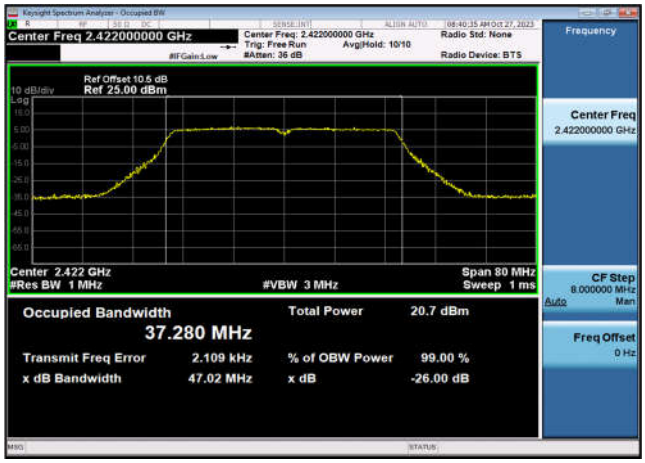
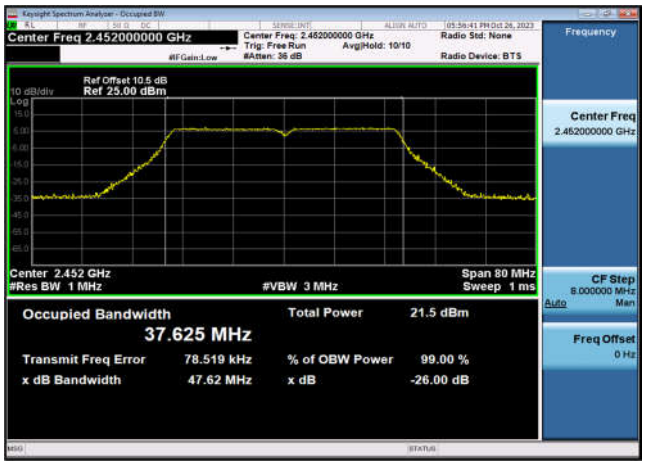
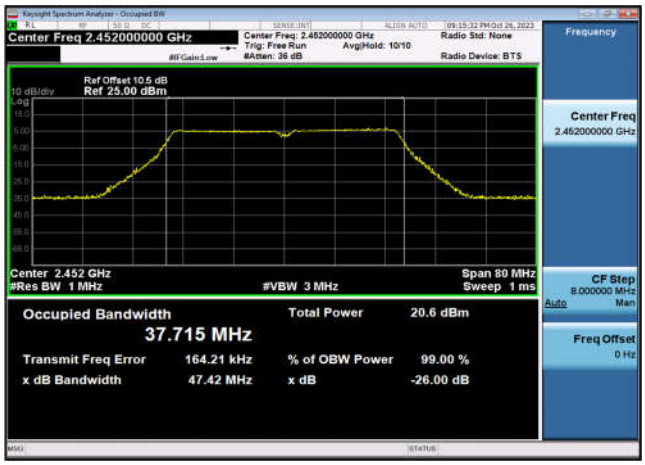


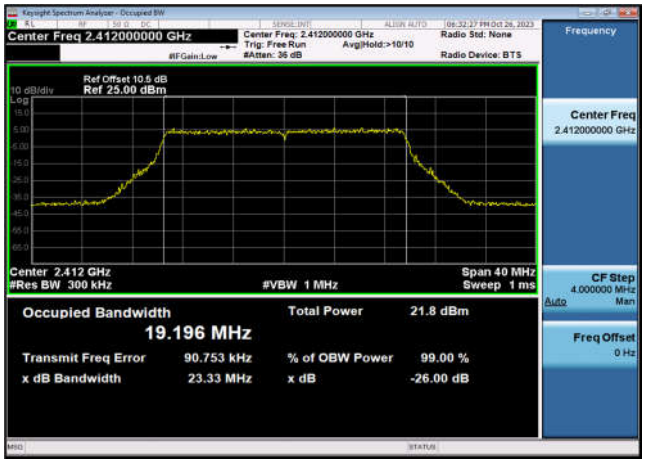
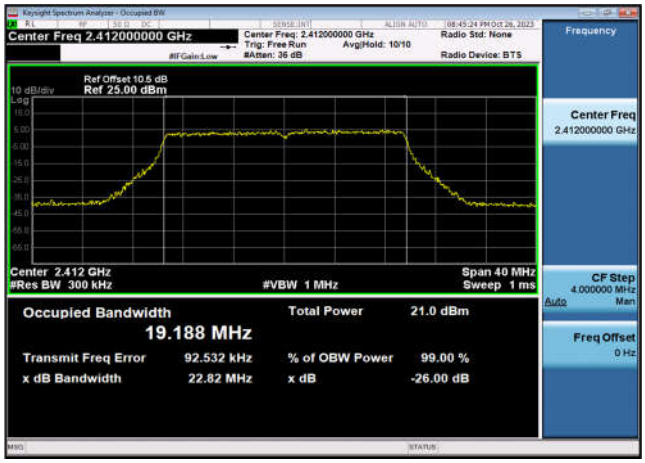
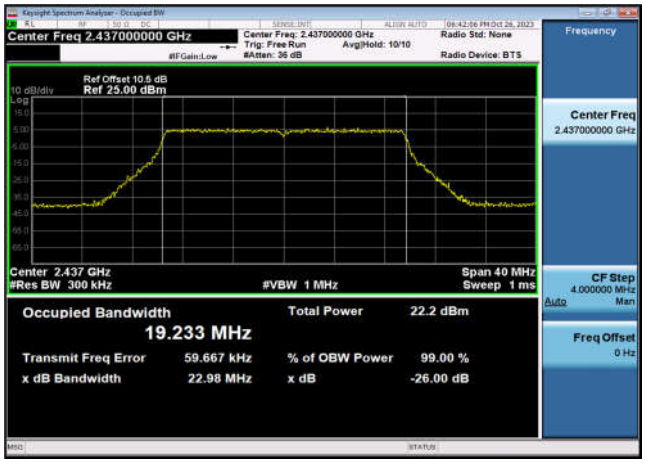
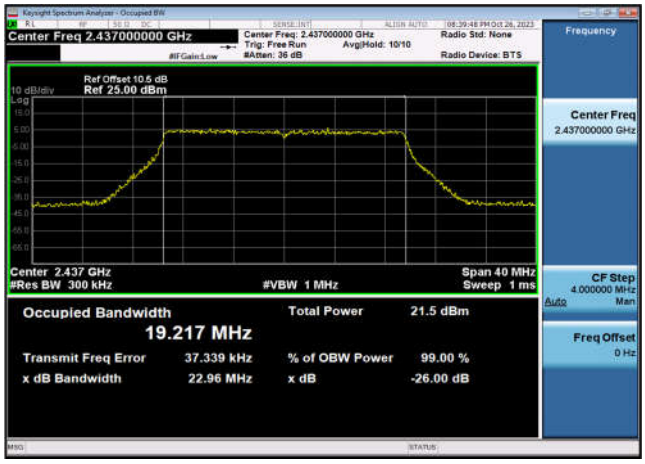
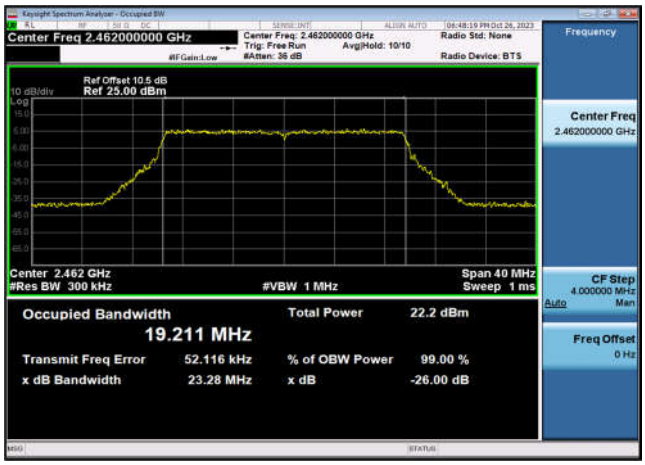
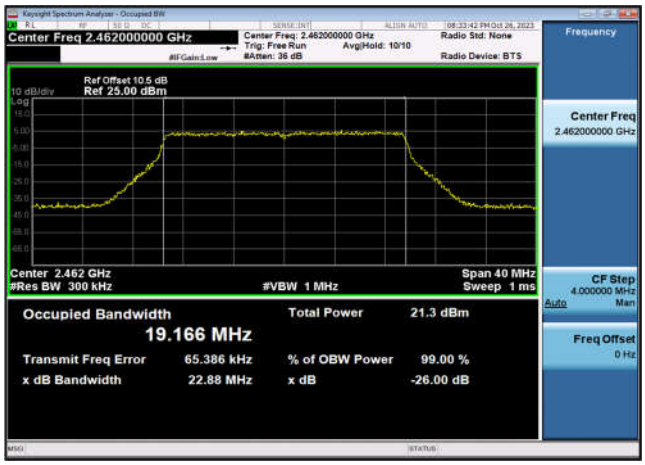
99% Bandwidth-802.11g,2462MHz,Ant7

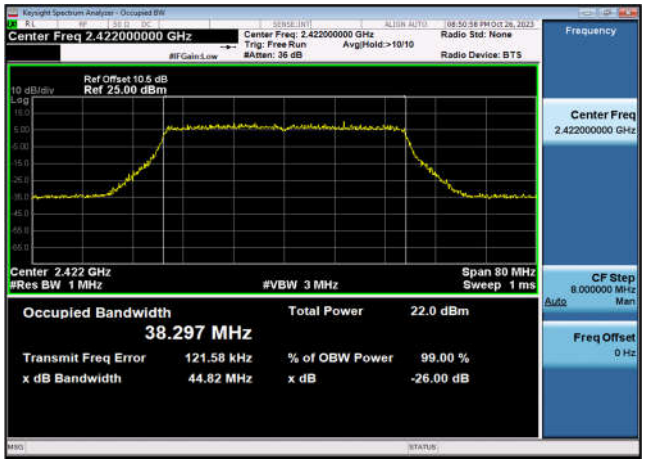
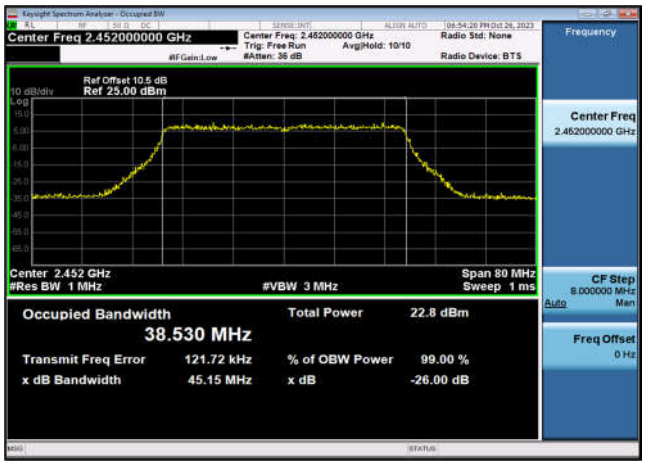
99% Bandwidth-802.11g,2462MHz,Ant6

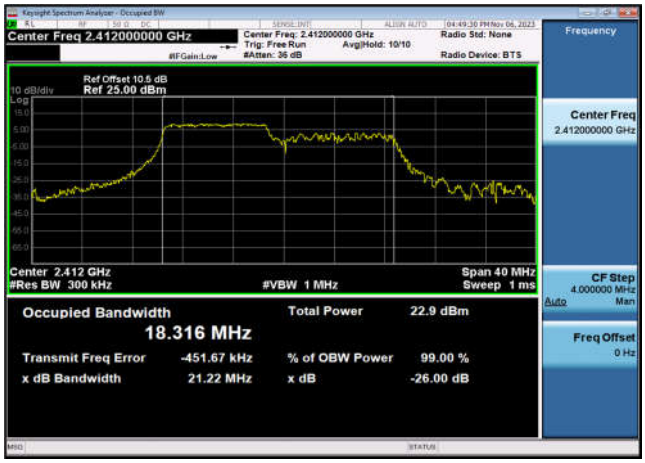
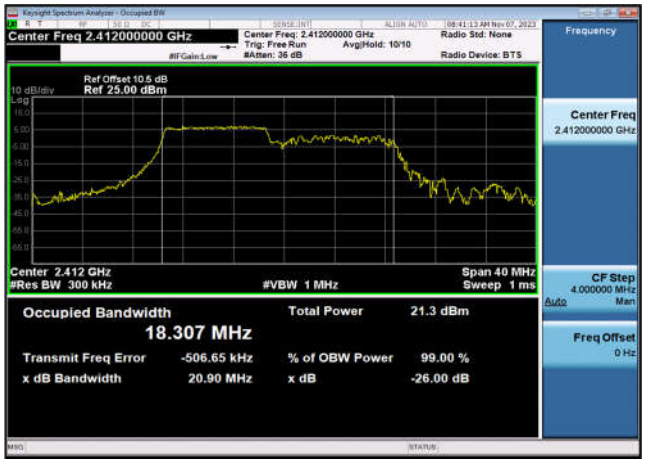
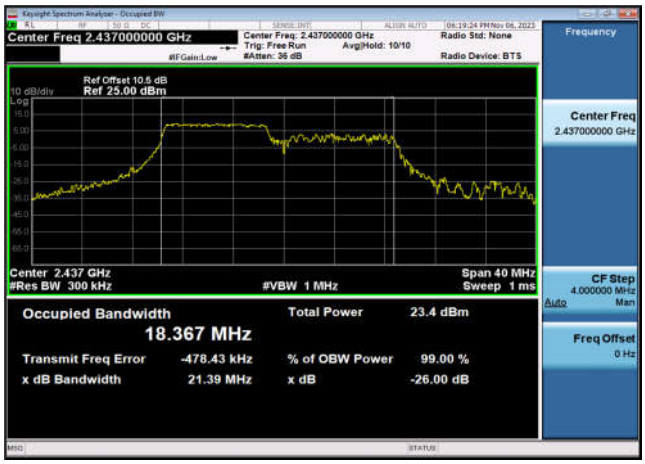
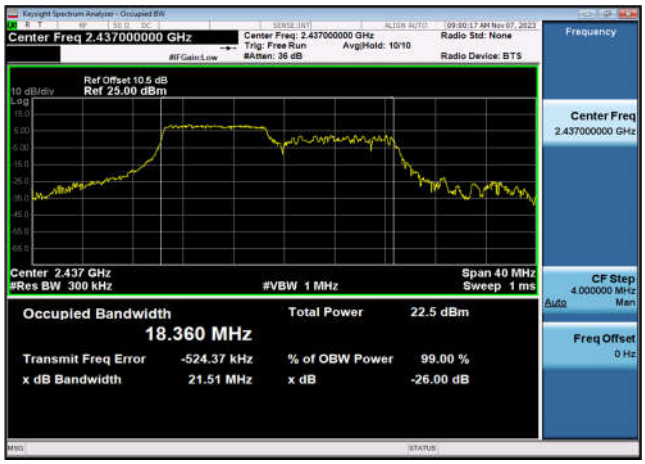
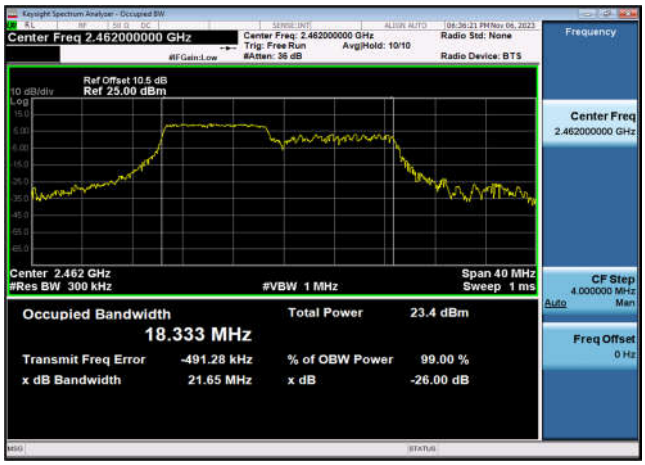
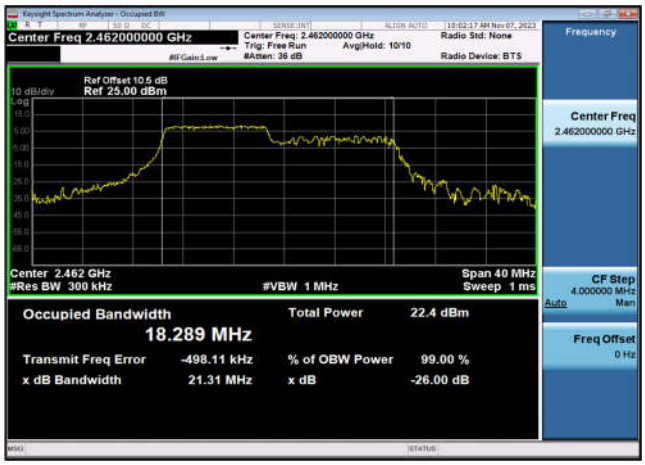


99% Bandwidth-802.11n(HT20),2412MHz ,Ant7	99% Bandwidth-802.11n(HT20),2412MHz ,Ant6
	
99% Bandwidth-802.11n(HT20),2437MHz ,Ant7	99% Bandwidth-802.11n(HT20),2437MHz ,Ant6
	
99% Bandwidth-802.11n(HT20),2462MHz ,Ant7	99% Bandwidth-802.11n(HT20),2462MHz ,Ant6
	

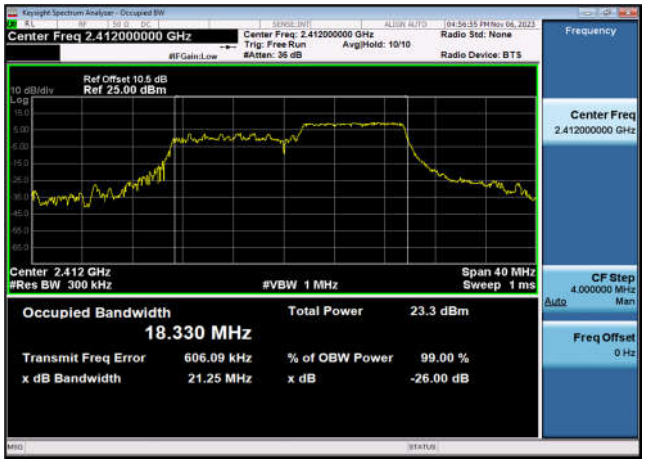
99% Bandwidth-802.11n(HT40),2422MHz ,Ant7	99% Bandwidth-802.11n(HT40),2422MHz ,Ant6
	
99% Bandwidth-802.11n(HT40),2437MHz ,Ant7	99% Bandwidth-802.11n(HT40),2437MHz ,Ant6
99% Bandwidth-802.11n(HT40),2452MHz ,Ant7	99% Bandwidth-802.11n(HT40),2452MHz ,Ant6
	

99% Bandwidth-802.11ax(HE20),2412MHz ,Ant7	99% Bandwidth-802.11ax(HE20),2412MHz ,Ant6
	
99% Bandwidth-802.11ax(HE20),2437MHz ,Ant7	99% Bandwidth-802.11ax(HE20),2437MHz ,Ant6
	
99% Bandwidth-802.11ax(HE20),2462MHz ,Ant7	99% Bandwidth-802.11ax(HE20),2462MHz ,Ant6
	

99% Bandwidth-802.11ax(HE40),2422MHz ,Ant7	99% Bandwidth-802.11ax(HE40),2422MHz ,Ant6
	
99% Bandwidth-802.11ax(HE40),2437MHz ,Ant7	99% Bandwidth-802.11ax(HE40),2437MHz ,Ant6
99% Bandwidth-802.11ax(HE40),2452MHz ,Ant7	99% Bandwidth-802.11ax(HE40),2452MHz ,Ant6
	

99% Bandwidth-802.11ax(HE20_RU106 _1),2412MHz,Ant7	99% Bandwidth-802.11ax(HE20_RU106 _1),2412MHz,Ant6
	
99% Bandwidth-802.11ax(HE20_RU106 _1),2437MHz,Ant7	99% Bandwidth-802.11ax(HE20_RU106 _1),2437MHz,Ant6
	
99% Bandwidth-802.11ax(HE20_RU106 _1),2462MHz,Ant7	99% Bandwidth-802.11ax(HE20_RU106 _1),2462MHz,Ant6
	

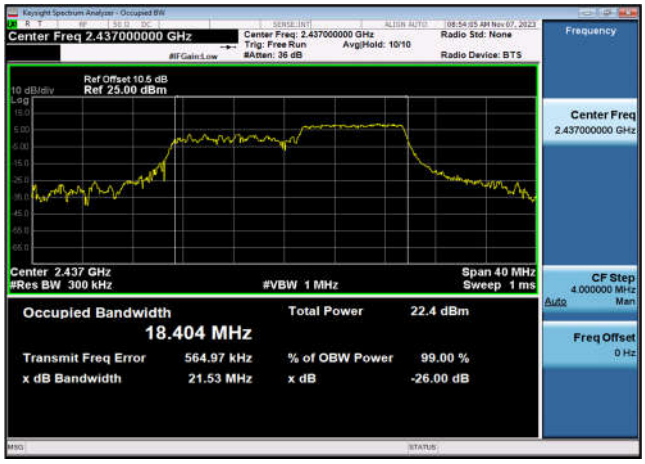
99% Bandwidth-802.11ax(HE20_RU106_2),2412MHz,Ant7



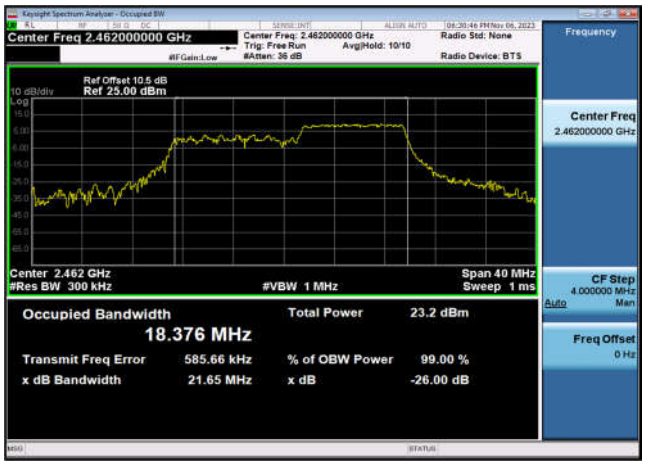
99% Bandwidth-802.11ax(HE20_RU106_2),2412MHz,Ant6

99% Bandwidth-802.11ax(HE20_RU106_2),2437MHz,Ant7

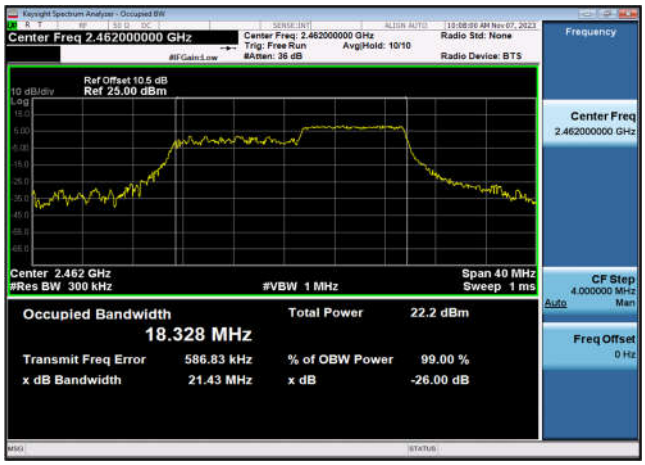
99% Bandwidth-802.11ax(HE20_RU106_2),2437MHz,Ant6



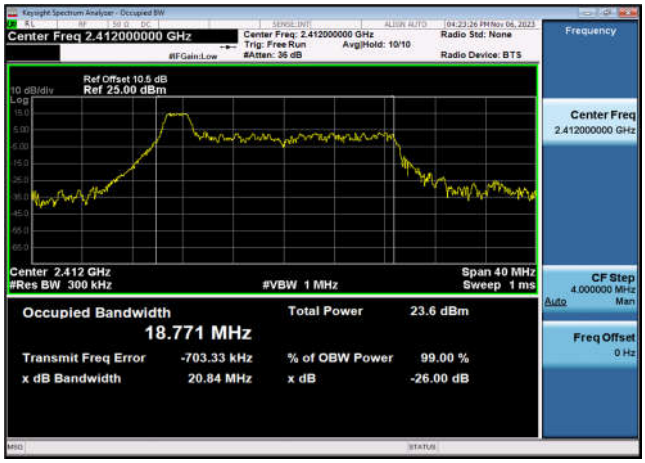
99% Bandwidth-802.11ax(HE20_RU106_2),2462MHz,Ant7



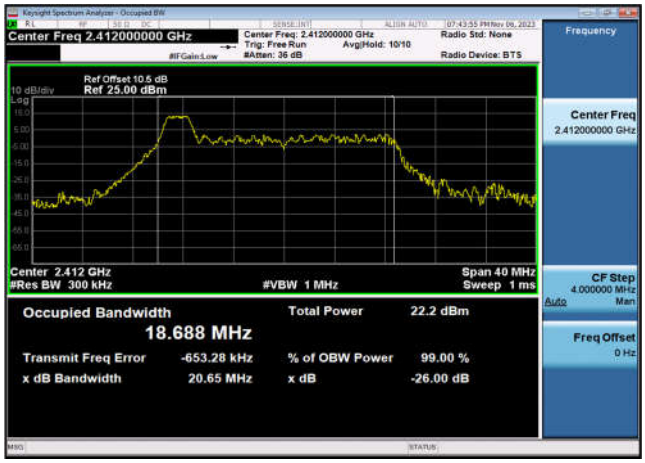
99% Bandwidth-802.11ax(HE20_RU106_2),2462MHz,Ant6



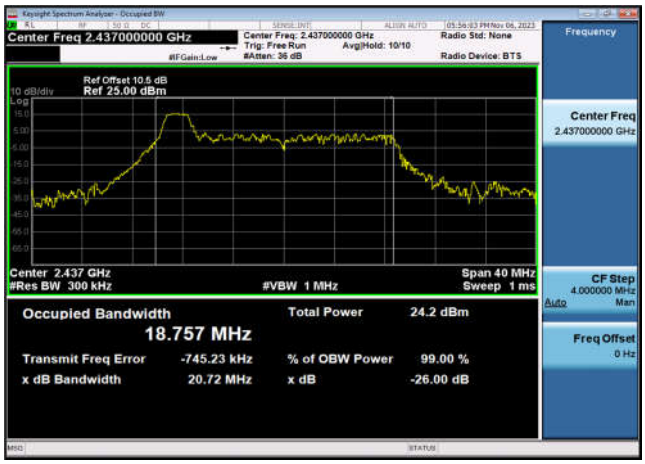
99% Bandwidth-802.11ax(HE20_RU26_1),2412MHz,Ant7



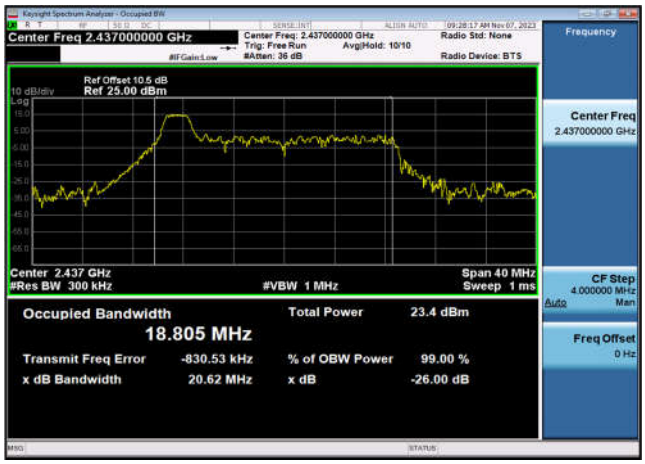
99% Bandwidth-802.11ax(HE20_RU26_1),2412MHz,Ant6



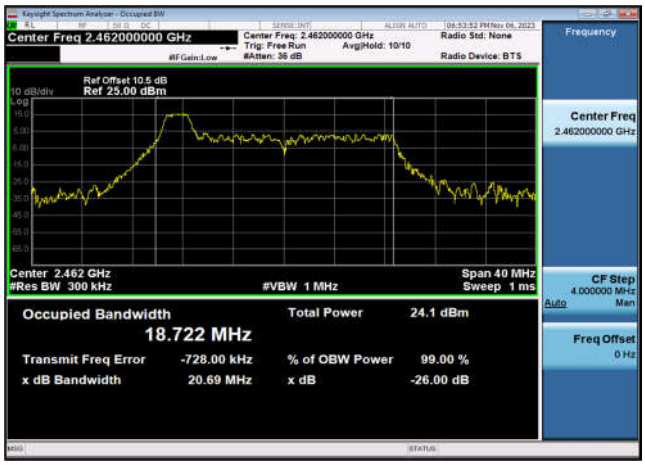
99% Bandwidth-802.11ax(HE20_RU26_1),2437MHz,Ant7



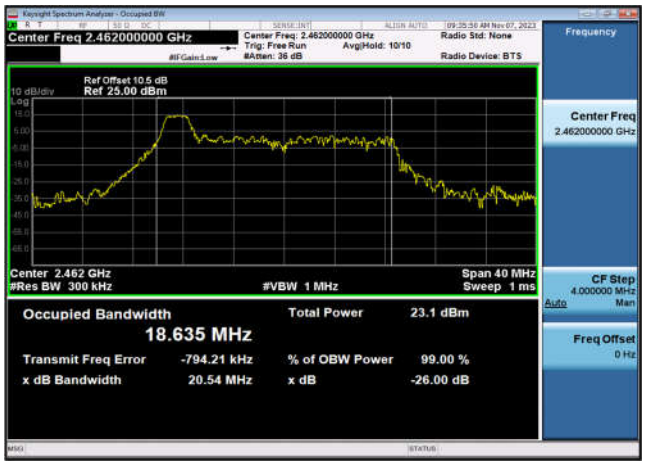
99% Bandwidth-802.11ax(HE20_RU26_1),2437MHz,Ant6

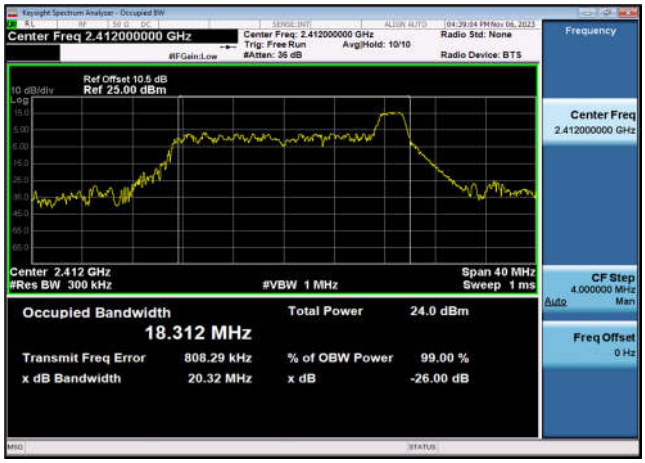
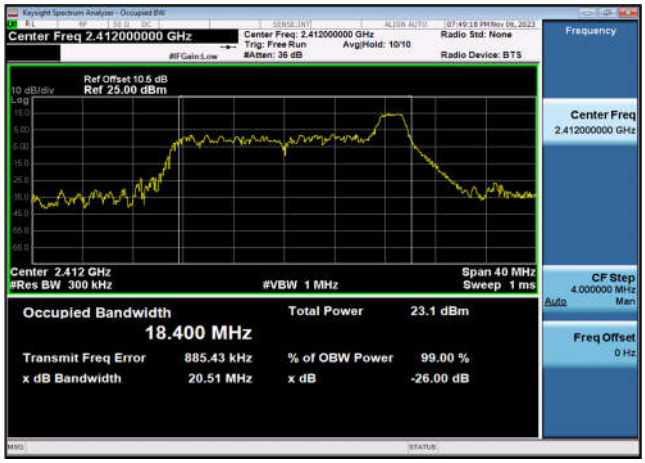
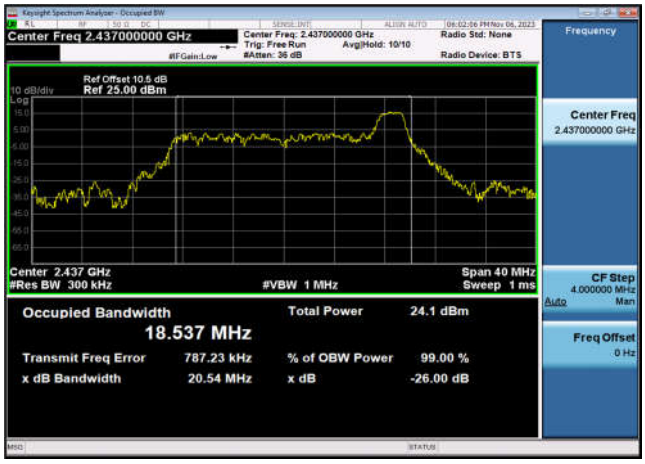
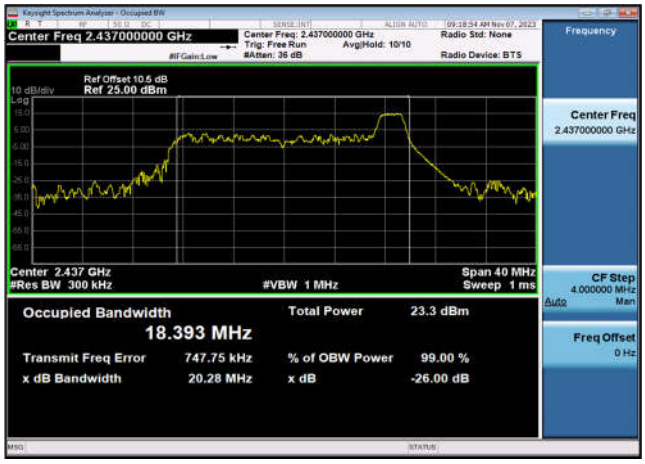
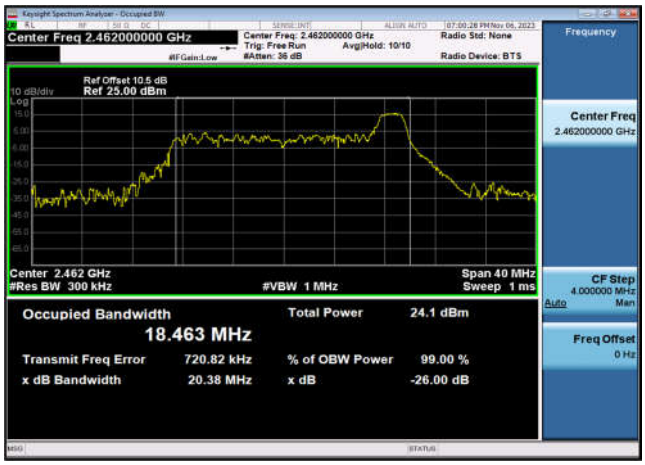
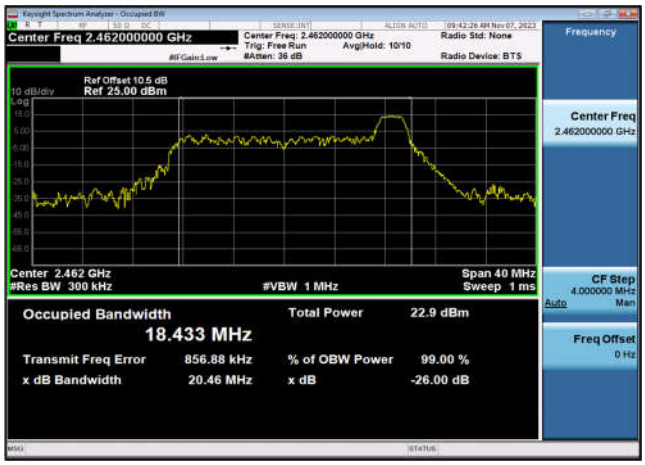


99% Bandwidth-802.11ax(HE20_RU26_1),2462MHz,Ant7

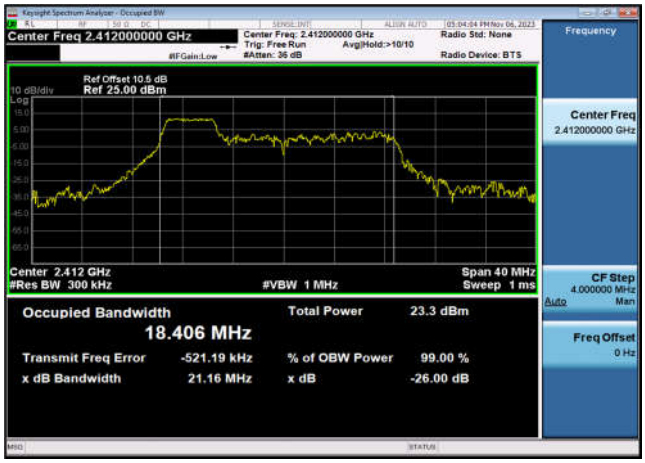


99% Bandwidth-802.11ax(HE20_RU26_1),2462MHz,Ant6

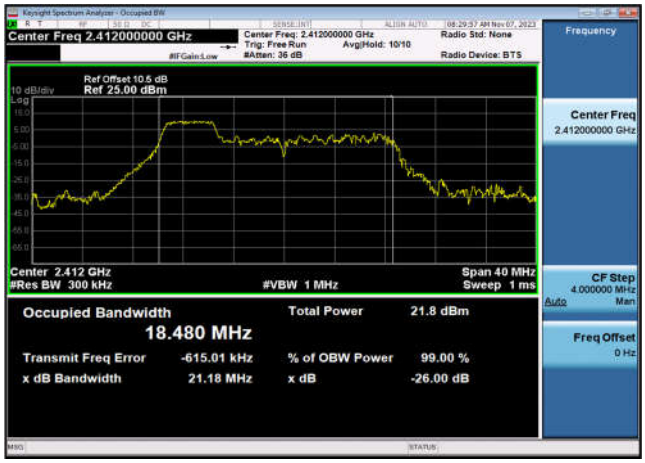


99% Bandwidth-802.11ax(HE20_RU26_9),2412MHz,Ant7	99% Bandwidth-802.11ax(HE20_RU26_9),2412MHz,Ant6
	
99% Bandwidth-802.11ax(HE20_RU26_9),2437MHz,Ant7	99% Bandwidth-802.11ax(HE20_RU26_9),2437MHz,Ant6
	
99% Bandwidth-802.11ax(HE20_RU26_9),2462MHz,Ant7	99% Bandwidth-802.11ax(HE20_RU26_9),2462MHz,Ant6
	

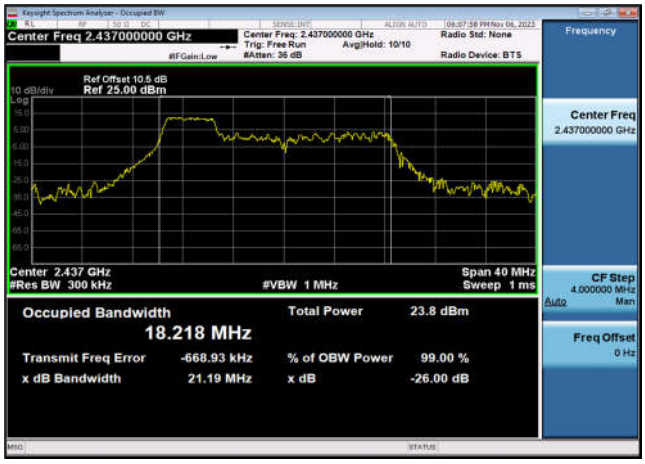
99% Bandwidth-802.11ax(HE20_RU52_1),2412MHz,Ant7



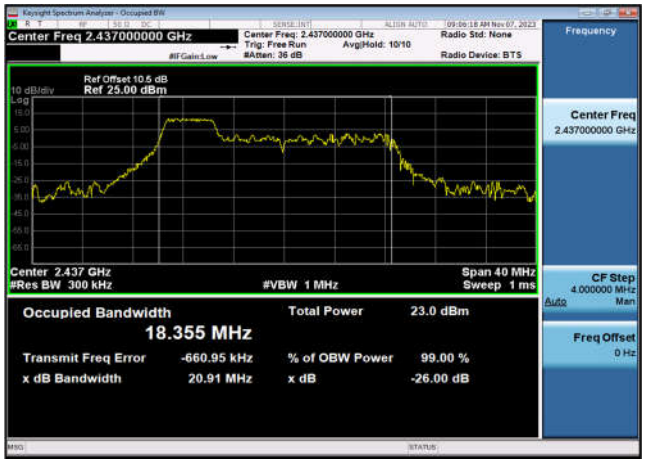
99% Bandwidth-802.11ax(HE20_RU52_1),2412MHz,Ant6



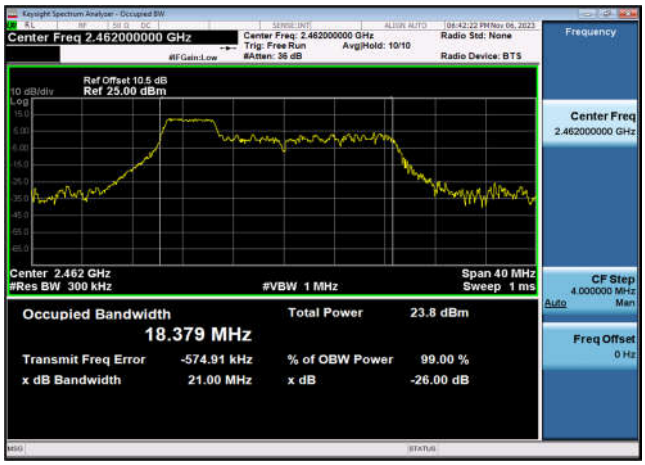
99% Bandwidth-802.11ax(HE20_RU52_1),2437MHz,Ant7



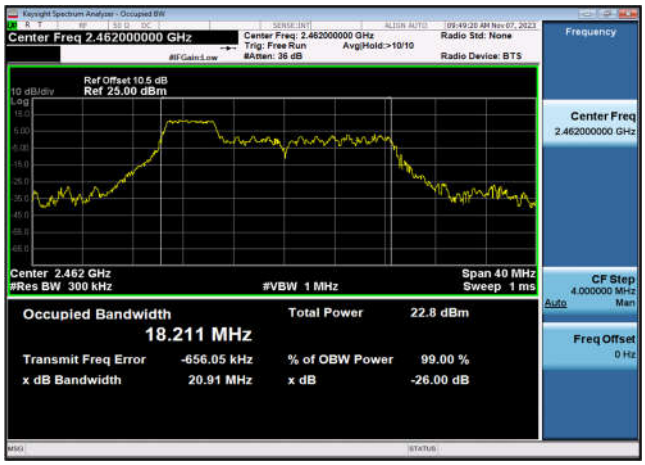
99% Bandwidth-802.11ax(HE20_RU52_1),2437MHz,Ant6

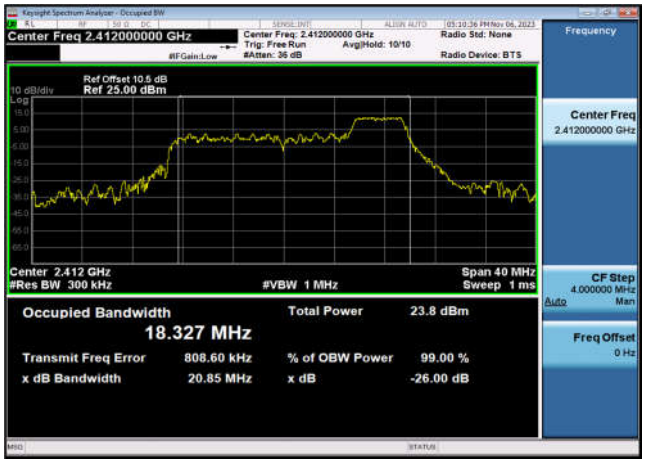
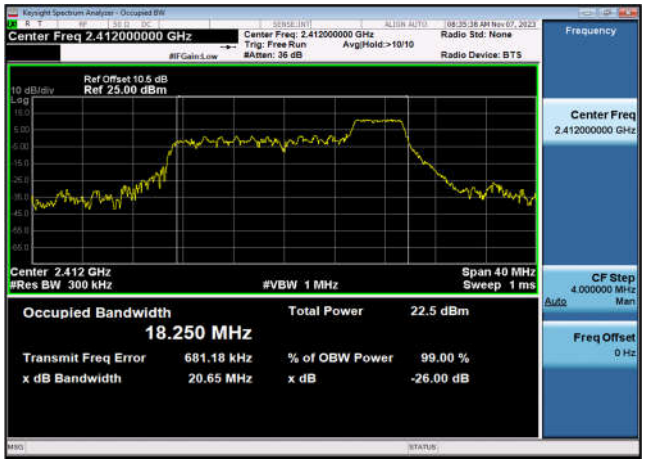
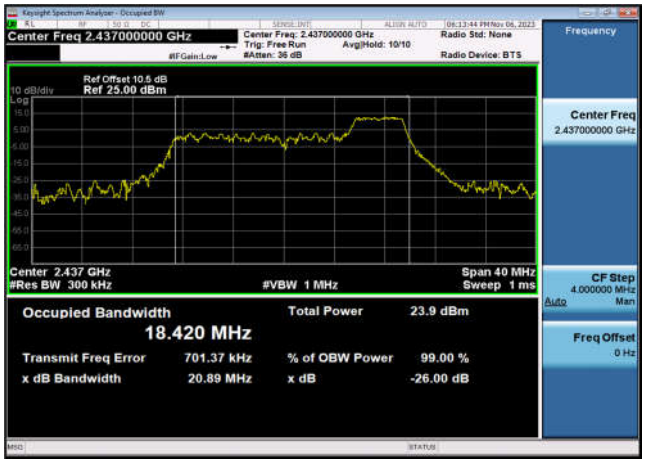
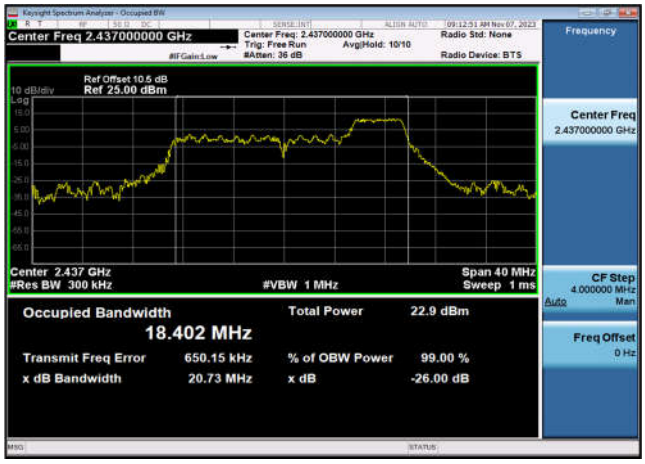
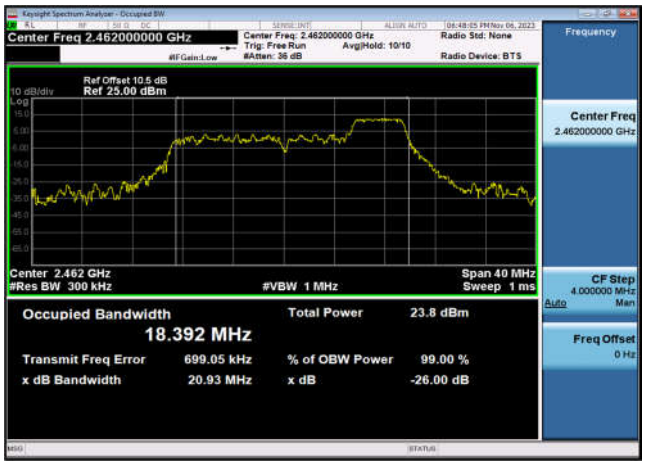
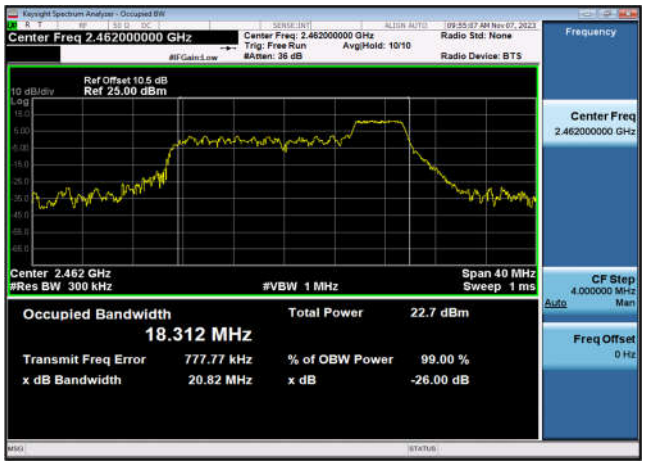


99% Bandwidth-802.11ax(HE20_RU52_1),2462MHz,Ant7



99% Bandwidth-802.11ax(HE20_RU52_1),2462MHz,Ant6



99% Bandwidth-802.11ax(HE20_RU52_4),2412MHz,Ant7	99% Bandwidth-802.11ax(HE20_RU52_4),2412MHz,Ant6
	
99% Bandwidth-802.11ax(HE20_RU52_4),2437MHz,Ant7	99% Bandwidth-802.11ax(HE20_RU52_4),2437MHz,Ant6
	
99% Bandwidth-802.11ax(HE20_RU52_4),2462MHz,Ant7	99% Bandwidth-802.11ax(HE20_RU52_4),2462MHz,Ant6
	

Power Spectral Density

Test Result and Data

WLAN AVGSA Power Spectral Density - SISO					
Mode	Test Frequency (MHz)	Ant	PSD (dBm)	Limit (dBm)	Result
802.11b	2412	Ant7	-10.702	8	Pass
802.11b	2412	Ant6	-13.629	8	Pass
802.11b	2437	Ant7	-11.312	8	Pass
802.11b	2437	Ant6	-11.751	8	Pass
802.11b	2462	Ant7	-11.728	8	Pass
802.11b	2462	Ant6	-13.165	8	Pass
802.11g	2412	Ant7	-20.000	8	Pass
802.11g	2412	Ant6	-20.629	8	Pass
802.11g	2437	Ant7	-19.955	8	Pass
802.11g	2437	Ant6	-20.293	8	Pass
802.11g	2462	Ant7	-19.883	8	Pass
802.11g	2462	Ant6	-20.517	8	Pass

WLAN AVGSA Power Spectral Density - MIMO						
Mode	Test Frequency (MHz)	Ant	PSD (dBm)	Total PSD (dBm)	Limit (dBm)	Result
802.11n (HT20)	2412	Ant7	-21.445	-18.97	8	Pass
802.11n (HT20)	2412	Ant6	-22.597			
802.11n (HT20)	2437	Ant7	-21.537	-18.58	8	Pass
802.11n (HT20)	2437	Ant6	-21.650			
802.11n (HT20)	2462	Ant7	-21.471	-18.78	8	Pass
802.11n (HT20)	2462	Ant6	-22.137			
802.11n (HT40)	2422	Ant7	-24.324	-21.52	8	Pass
802.11n (HT40)	2422	Ant6	-24.754			
802.11n (HT40)	2437	Ant7	-24.230	-21.16	8	Pass
802.11n (HT40)	2437	Ant6	-24.113			
802.11n (HT40)	2452	Ant7	-24.431	-21.55	8	Pass
802.11n (HT40)	2452	Ant6	-24.696			
802.11ax (HE20)	2412	Ant7	-22.272	-19.57	8	Pass
802.11ax (HE20)	2412	Ant6	-22.919			

802.11ax (HE20)	2437	Ant7	-22.273	-19.46	8	Pass
802.11ax (HE20)	2437	Ant6	-22.687			
802.11ax (HE20)	2462	Ant7	-22.517	-19.90	8	Pass
802.11ax (HE20)	2462	Ant6	-23.334			
802.11ax (HE40)	2422	Ant7	-25.263	-22.62	8	Pass
802.11ax (HE40)	2422	Ant6	-26.030			
802.11ax (HE40)	2437	Ant7	-24.905	-22.24	8	Pass
802.11ax (HE40)	2437	Ant6	-25.624			
802.11ax (HE40)	2452	Ant7	-25.542	-22.68	8	Pass
802.11ax (HE40)	2452	Ant6	-25.845			

Note:

1) Ant7 and Ant6 is 2*2MIMO.

2) Total PSD = $10*\log \{10^{(\text{Ant7 PSD}/10)} + 10^{(\text{Ant6 PSD}/10)}\}$.

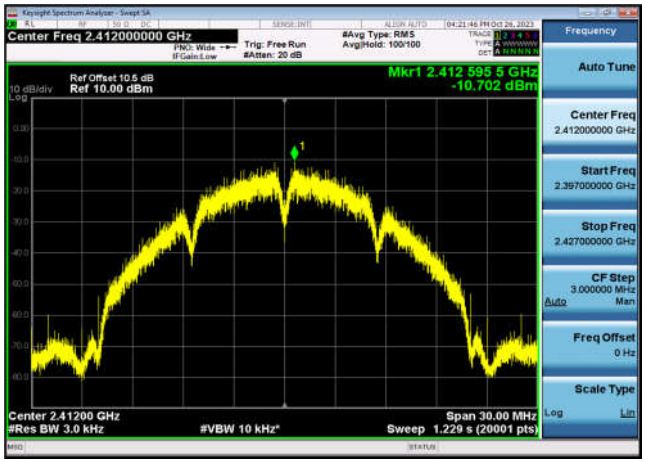
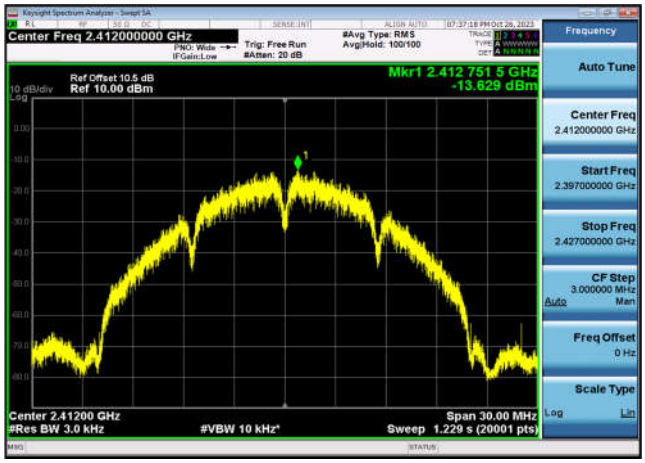
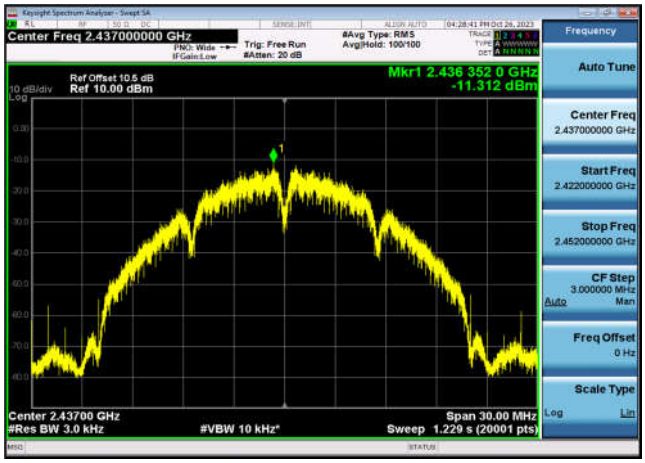
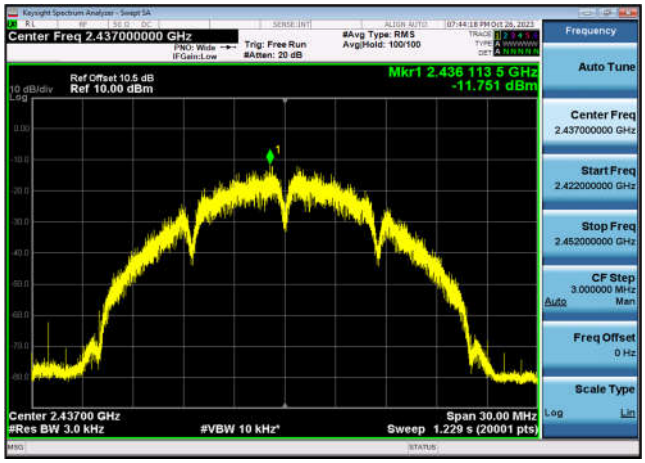
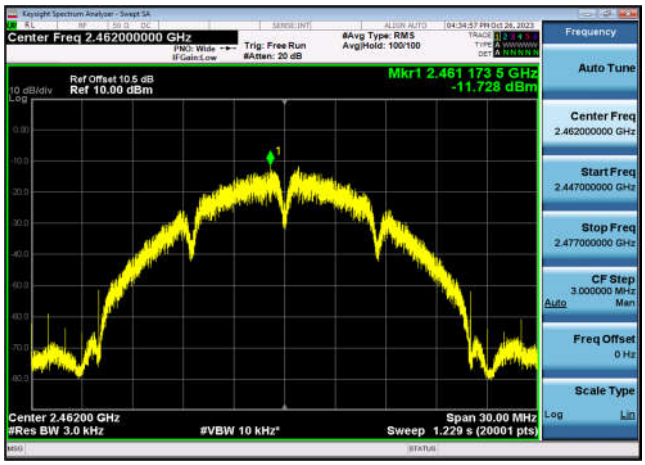
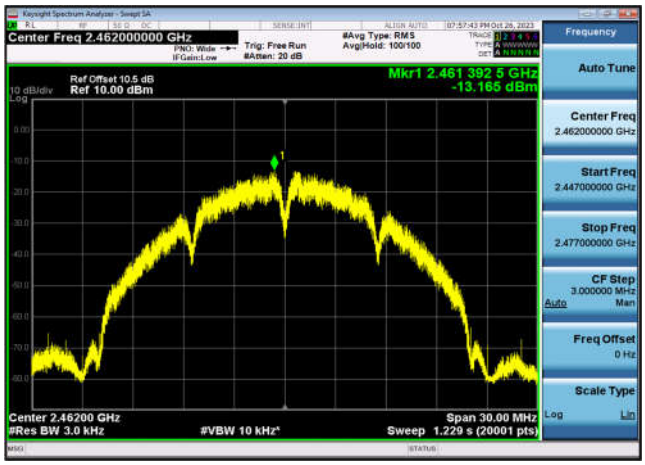
WLAN AVGSA Power Spectral Density - MIMO(Tone RU mode)							
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	PSD (dBm)	Total PSD (dBm)	Limit (dBm)	Result
802.11ax (HE20_RU106_1)	2412	Ant7	0.17	-16.861	-14.19	8	Pass
802.11ax (HE20_RU106_1)	2412	Ant6	0.17	-17.947			
802.11ax (HE20_RU106_1)	2437	Ant7	0.17	-15.846	-13.34	8	Pass
802.11ax (HE20_RU106_1)	2437	Ant6	0.17	-17.308			
802.11ax (HE20_RU106_1)	2462	Ant7	0.17	-15.608	-13.03	8	Pass
802.11ax (HE20_RU106_1)	2462	Ant6	0.17	-16.900			
802.11ax (HE20_RU106_2)	2412	Ant7	0.17	-16.361	-13.40	8	Pass
802.11ax (HE20_RU106_2)	2412	Ant6	0.17	-16.804			
802.11ax (HE20_RU106_2)	2437	Ant7	0.17	-16.184	-13.39	8	Pass
802.11ax (HE20_RU106_2)	2437	Ant6	0.17	-16.987			
802.11ax (HE20_RU106_2)	2462	Ant7	0.17	-16.002	-13.45	8	Pass
802.11ax (HE20_RU106_2)	2462	Ant6	0.17	-17.361			
802.11ax (HE20_RU26_1)	2412	Ant7	0.21	-11.054	-8.70	8	Pass
802.11ax (HE20_RU26_1)	2412	Ant6	0.21	-12.996			
802.11ax (HE20_RU26_1)	2437	Ant7	0.21	-10.507	-7.59	8	Pass
802.11ax (HE20_RU26_1)	2437	Ant6	0.21	-11.141			
802.11ax (HE20_RU26_1)	2462	Ant7	0.21	-10.559	-7.95	8	Pass
802.11ax (HE20_RU26_1)	2462	Ant6	0.21	-11.892			
802.11ax	2412	Ant7	0.21	-8.947	-6.89	8	Pass

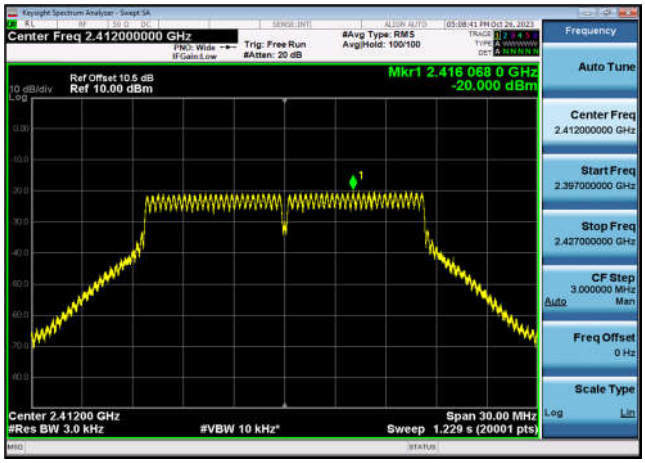
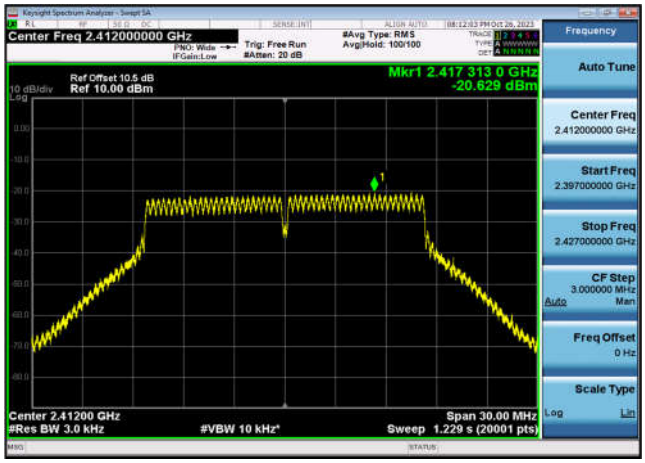
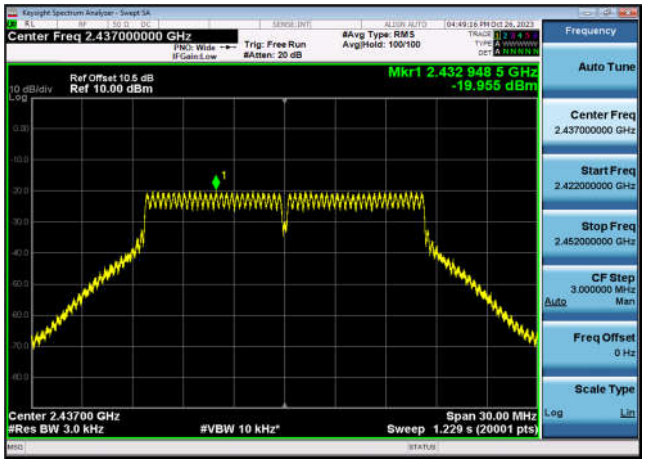
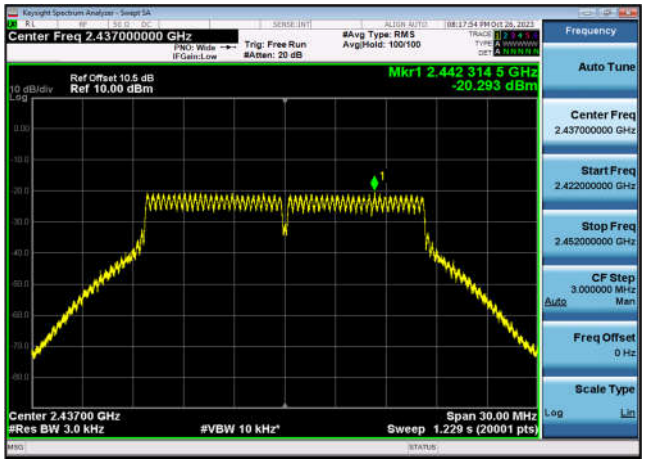
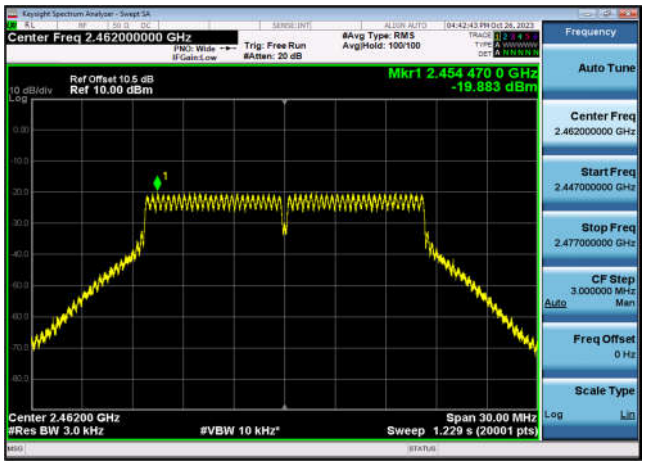
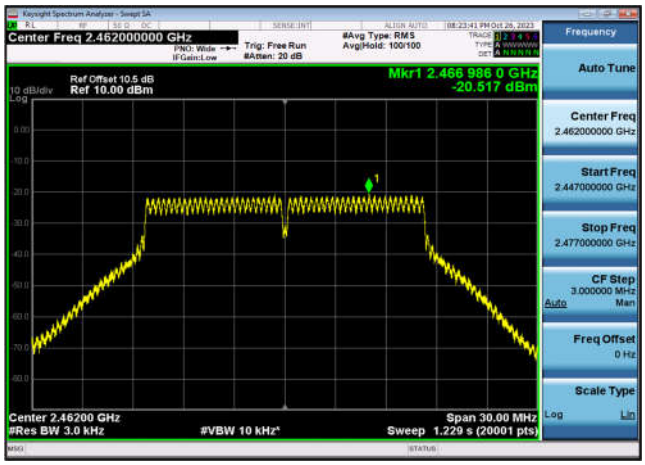
(HE20_RU26_9)							
802.11ax (HE20_RU26_9)	2412	Ant6	0.21	-11.709			
802.11ax (HE20_RU26_9)	2437	Ant7	0.21	-10.133	-7.52	8	Pass
802.11ax (HE20_RU26_9)	2437	Ant6	0.21	-11.452			
802.11ax (HE20_RU26_9)	2462	Ant7	0.21	-10.100	-7.60	8	Pass
802.11ax (HE20_RU26_9)	2462	Ant6	0.21	-11.674			
802.11ax (HE20_RU52_1)	2412	Ant7	0.21	-13.457	-11.18	8	Pass
802.11ax (HE20_RU52_1)	2412	Ant6	0.21	-15.608			
802.11ax (HE20_RU52_1)	2437	Ant7	0.21	-12.912	-10.12	8	Pass
802.11ax (HE20_RU52_1)	2437	Ant6	0.21	-13.818			
802.11ax (HE20_RU52_1)	2462	Ant7	0.21	-13.662	-10.93	8	Pass
802.11ax (HE20_RU52_1)	2462	Ant6	0.21	-14.710			
802.11ax (HE20_RU52_4)	2412	Ant7	0.21	-12.671	-10.40	8	Pass
802.11ax (HE20_RU52_4)	2412	Ant6	0.21	-14.826			
802.11ax (HE20_RU52_4)	2437	Ant7	0.21	-13.307	-10.36	8	Pass
802.11ax (HE20_RU52_4)	2437	Ant6	0.21	-13.875			
802.11ax (HE20_RU52_4)	2462	Ant7	0.21	-13.317	-10.35	8	Pass
802.11ax (HE20_RU52_4)	2462	Ant6	0.21	-13.845			

Note:

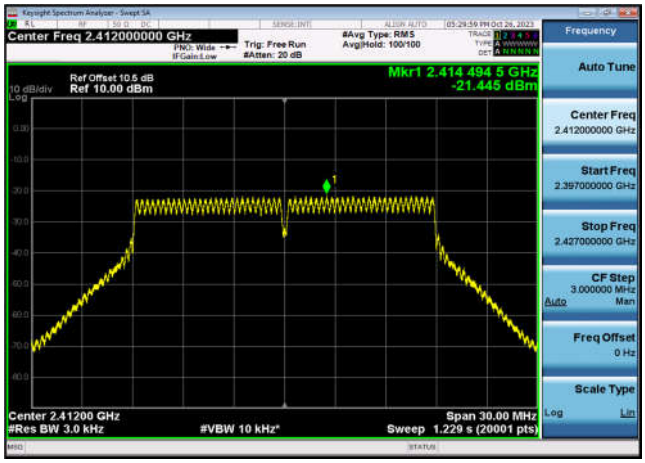
1) Ant7 and Ant6 is 2*2MIMO.

2) Total PSD = $10*\log\{10^{(\text{Ant7 PSDr}/10)} + 10^{(\text{Ant6 PSD}/10)}\}$.

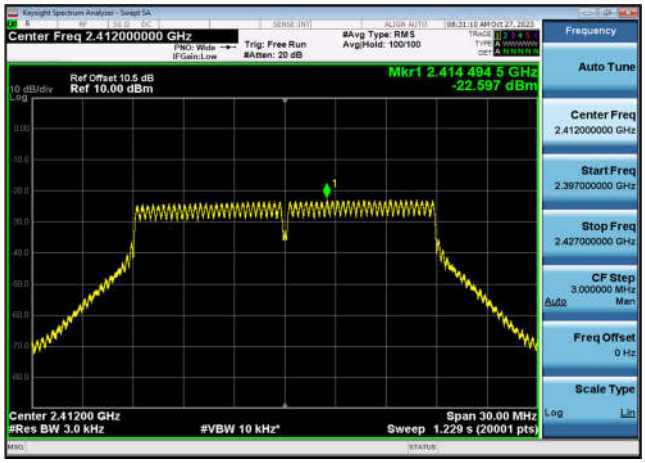
Power spectral density-802.11b ,2412MHz,Ant7	Power spectral density-802.11b ,2412MHz,Ant6
	
Power spectral density-802.11b ,2437MHz,Ant7	Power spectral density-802.11b ,2437MHz,Ant6
	
Power spectral density-802.11b ,2462MHz,Ant7	Power spectral density-802.11b ,2462MHz,Ant6
	

Power spectral density-802.11g ,2412MHz,Ant7	Power spectral density-802.11g ,2412MHz,Ant6
	
Power spectral density-802.11g ,2437MHz,Ant7	Power spectral density-802.11g ,2437MHz,Ant6
	
Power spectral density-802.11g ,2462MHz,Ant7	Power spectral density-802.11g ,2462MHz,Ant6
	

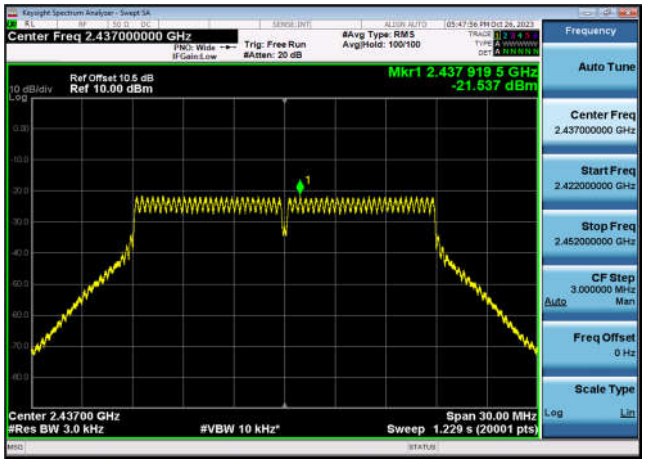
Power spectral density-802.11n(HT20) ,2412MHz,Ant7



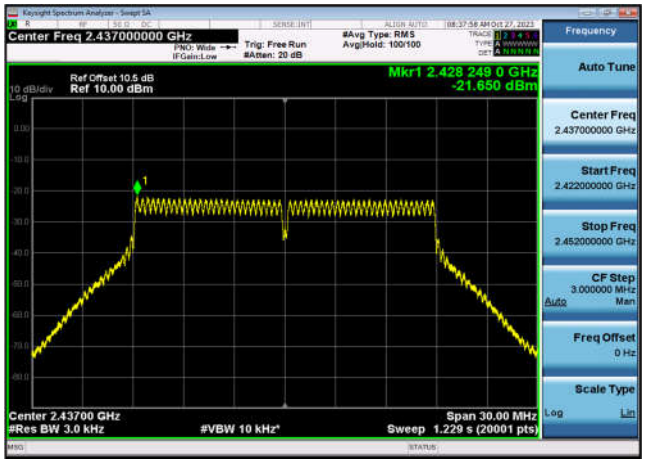
Power spectral density-802.11n(HT20) ,2412MHz,Ant6



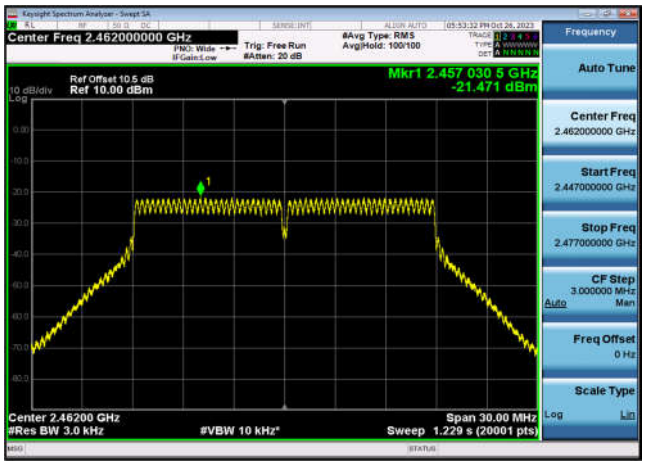
Power spectral density-802.11n(HT20) ,2437MHz,Ant7



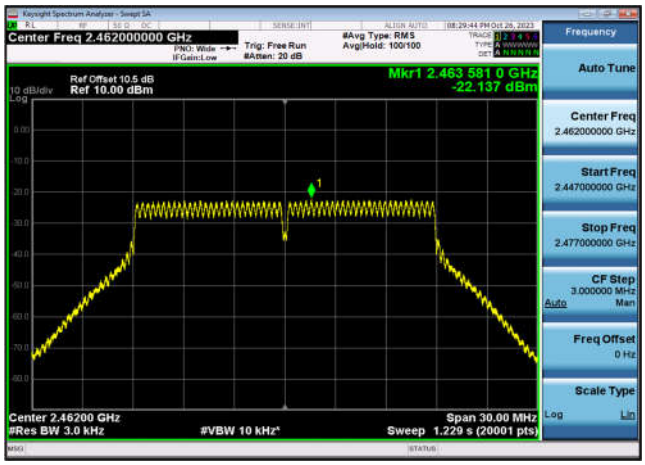
Power spectral density-802.11n(HT20) ,2437MHz,Ant6



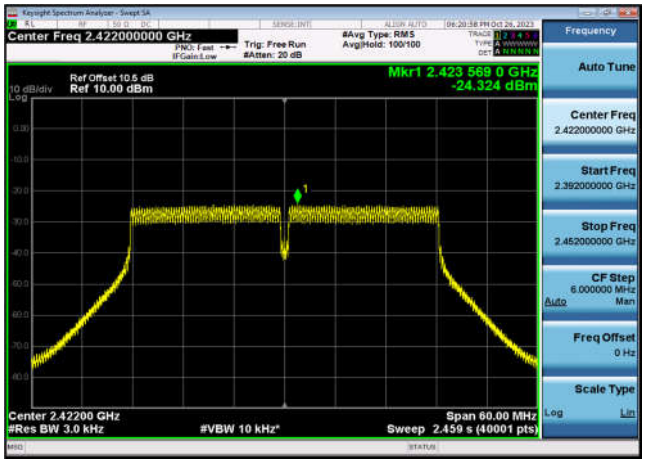
Power spectral density-802.11n(HT20) ,2462MHz,Ant7



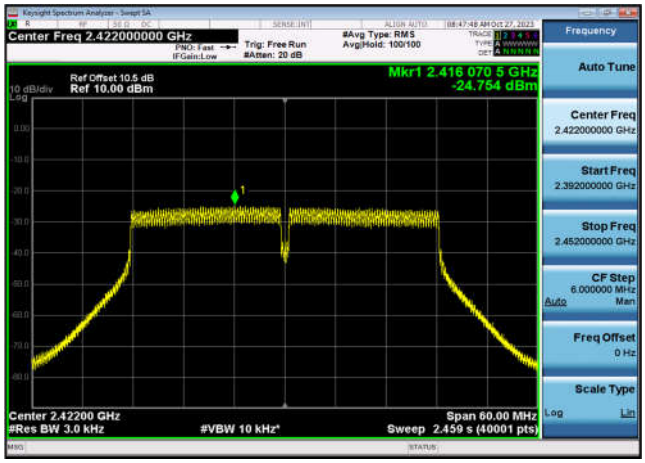
Power spectral density-802.11n(HT20) ,2462MHz,Ant6



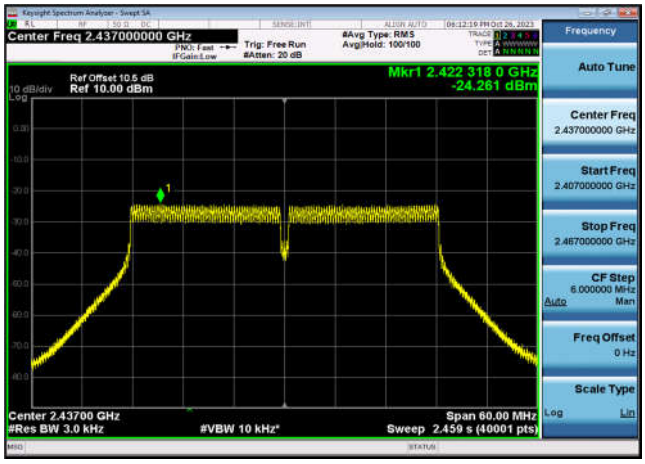
Power spectral density-802.11n(HT40) ,2422MHz,Ant7



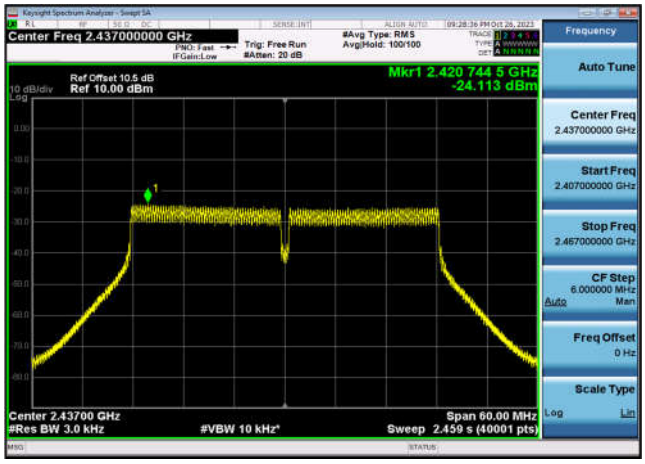
Power spectral density-802.11n(HT40) ,2422MHz,Ant6



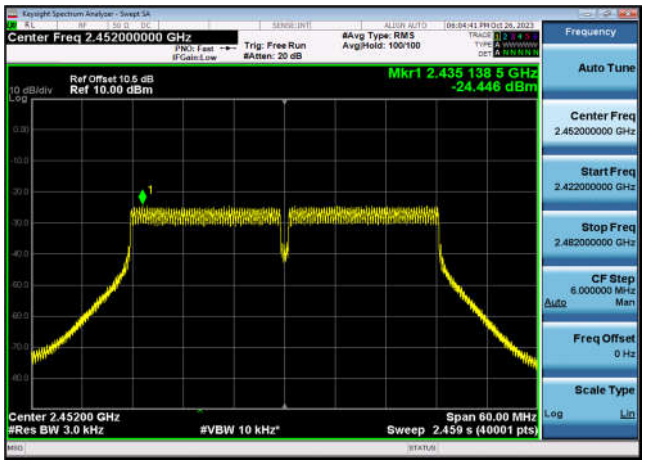
Power spectral density-802.11n(HT40) ,2437MHz,Ant7



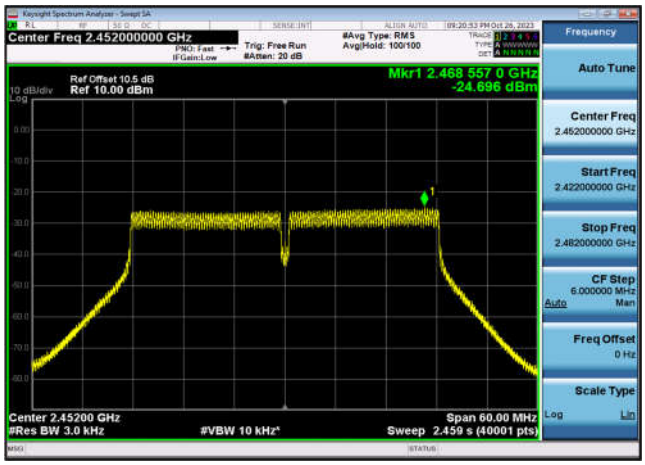
Power spectral density-802.11n(HT40) ,2437MHz,Ant6



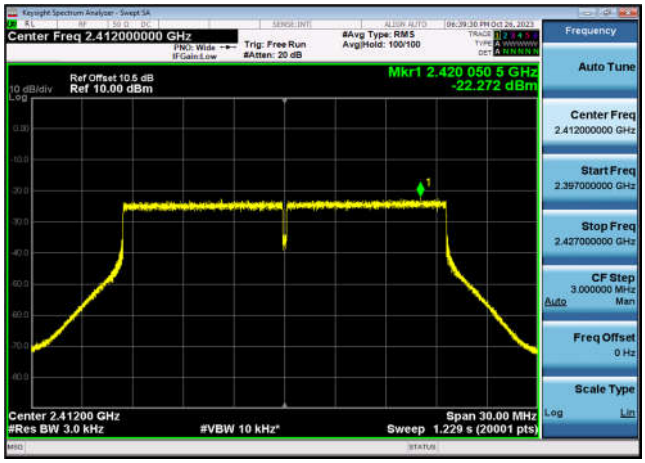
Power spectral density-802.11n(HT40) ,2452MHz,Ant7



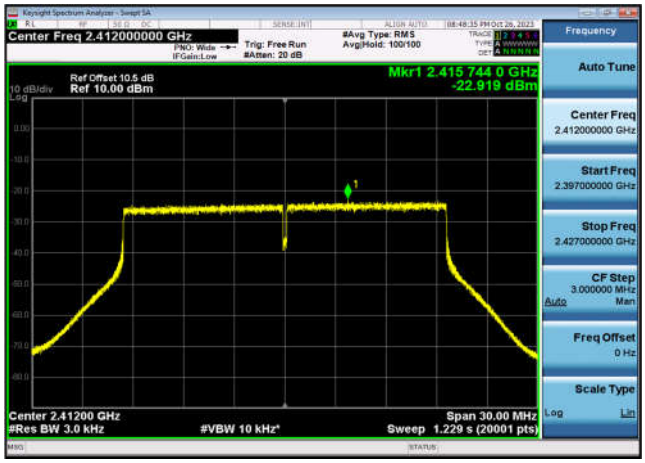
Power spectral density-802.11n(HT40) ,2452MHz,Ant6



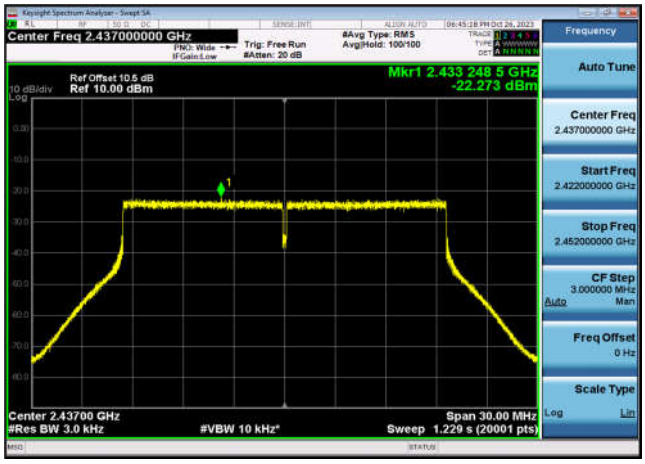
Power spectral density-802.11ax(HE20) ,2412MHz,Ant7



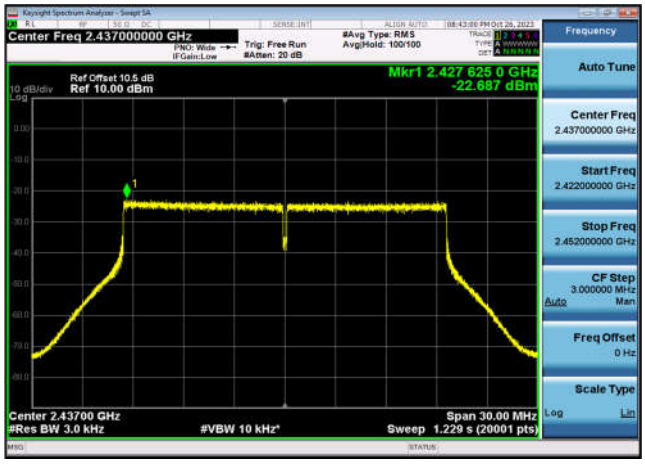
Power spectral density-802.11ax(HE20) ,2412MHz,Ant6



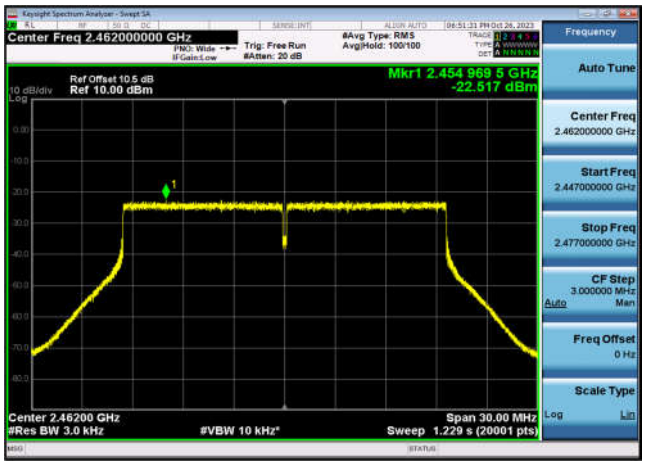
Power spectral density-802.11ax(HE20) ,2437MHz,Ant7



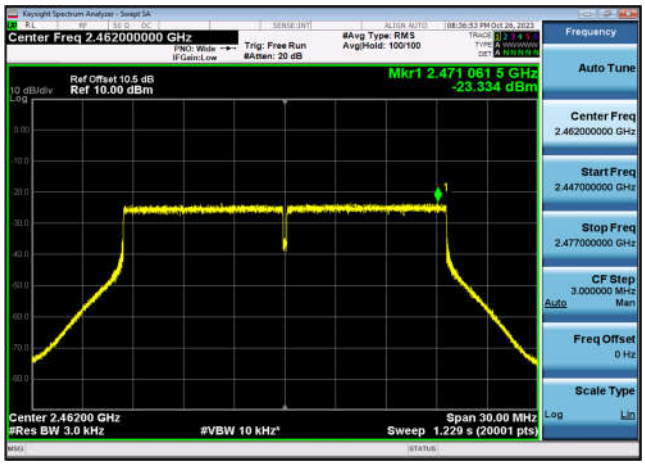
Power spectral density-802.11ax(HE20) ,2437MHz,Ant6

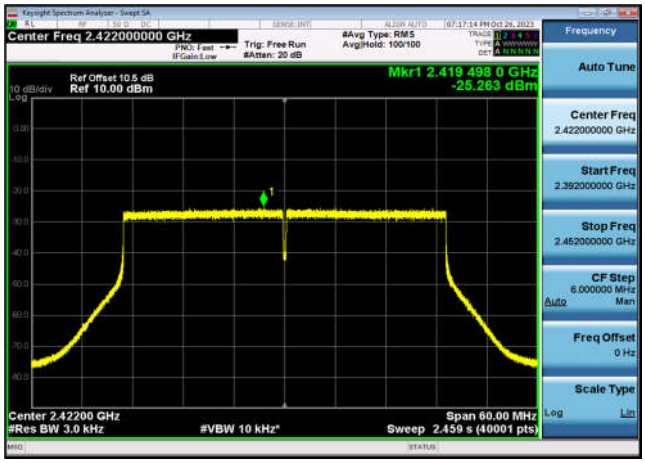
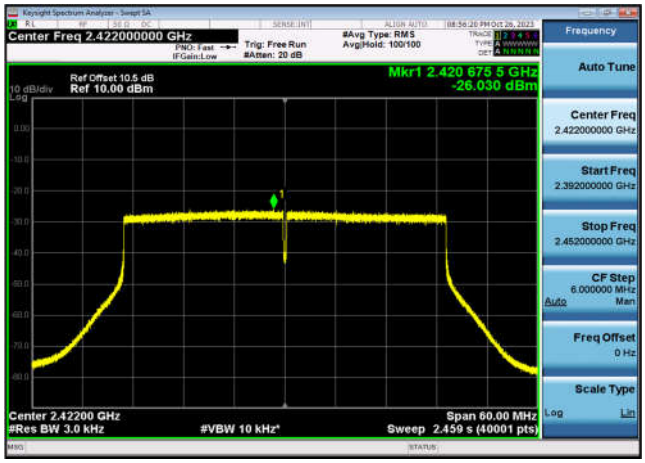
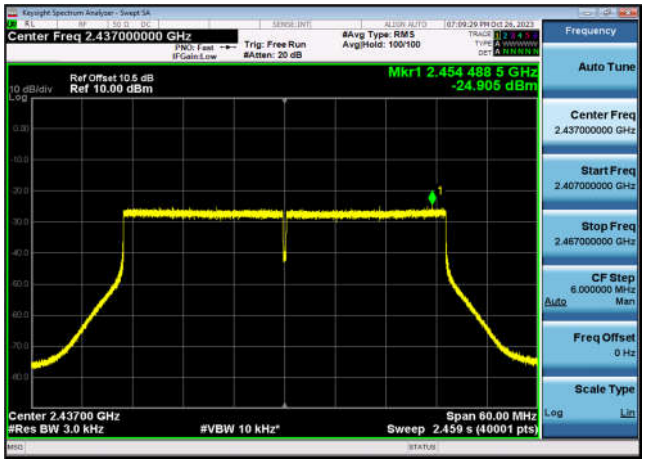
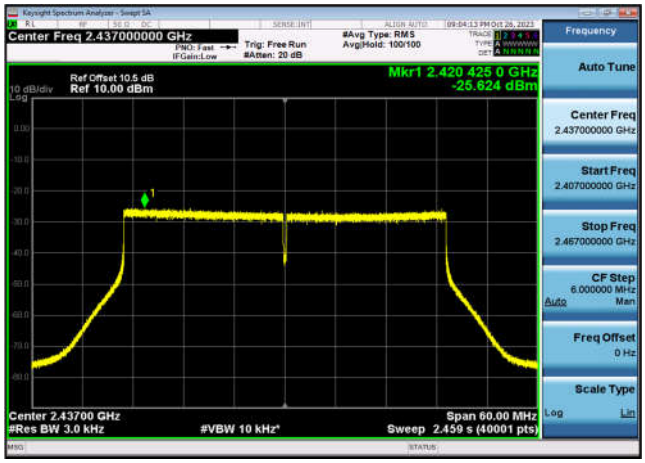
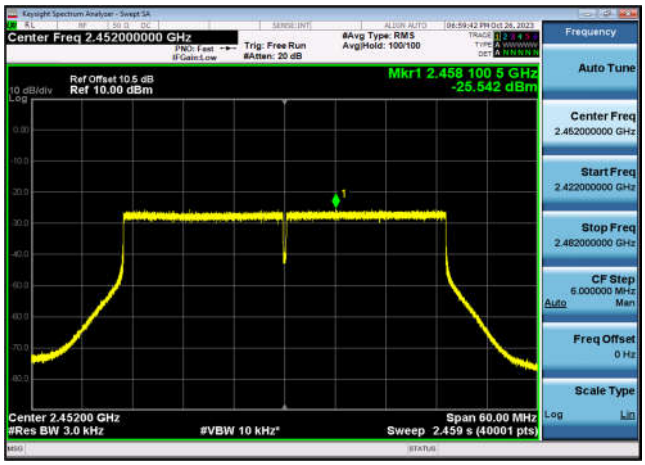
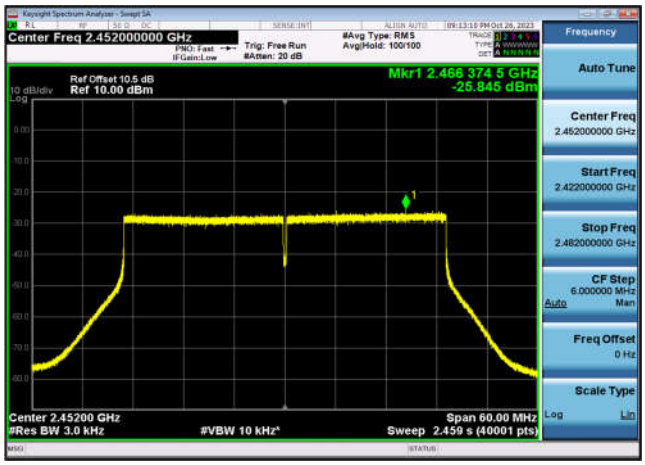


Power spectral density-802.11ax(HE20) ,2462MHz,Ant7

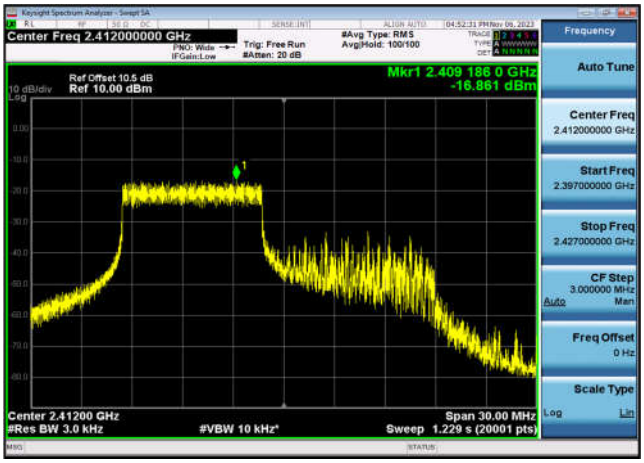


Power spectral density-802.11ax(HE20) ,2462MHz,Ant6

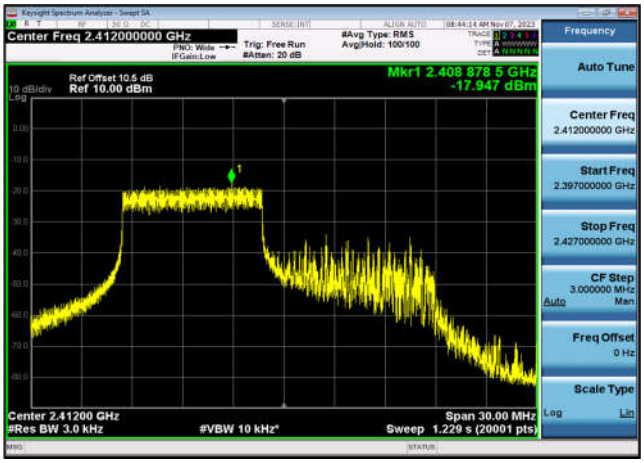


Power spectral density-802.11ax(HE40) ,2422MHz,Ant7	Power spectral density-802.11ax(HE40) ,2422MHz,Ant6
	
Power spectral density-802.11ax(HE40) ,2437MHz,Ant7	Power spectral density-802.11ax(HE40) ,2437MHz,Ant6
	
Power spectral density-802.11ax(HE40) ,2452MHz,Ant7	Power spectral density-802.11ax(HE40) ,2452MHz,Ant6
	

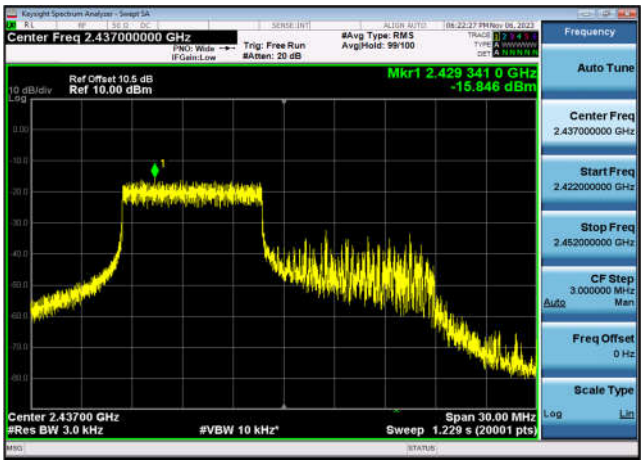
Power spectral density-802.11ax(HE20 _RU106_1),2412MHz,Ant7



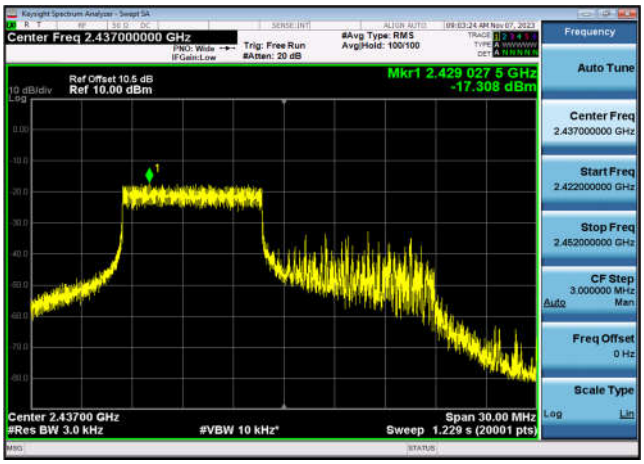
Power spectral density-802.11ax(HE20 _RU106_1),2412MHz,Ant6



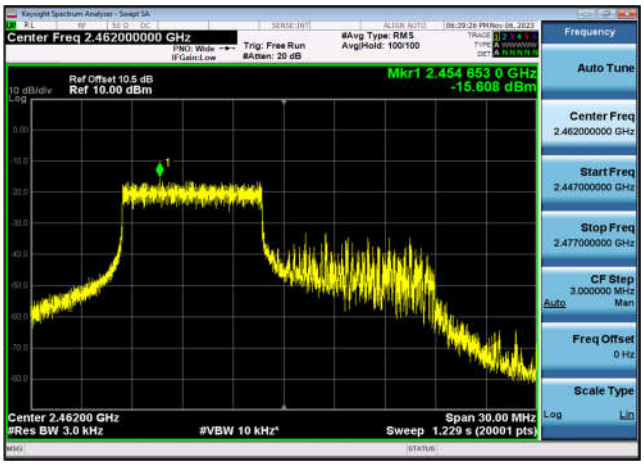
Power spectral density-802.11ax(HE20 _RU106_1),2437MHz,Ant7



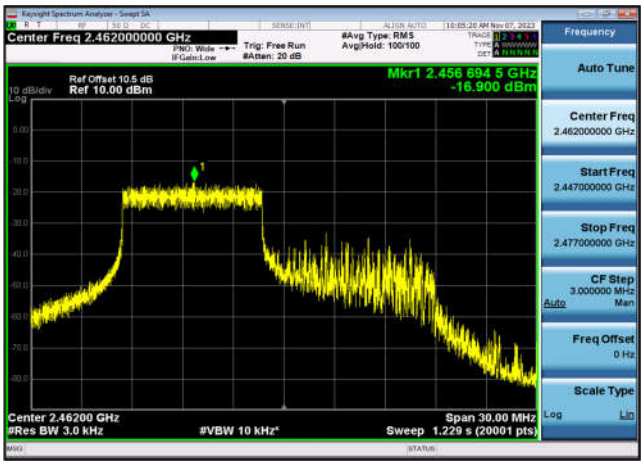
Power spectral density-802.11ax(HE20 _RU106_1),2437MHz,Ant6



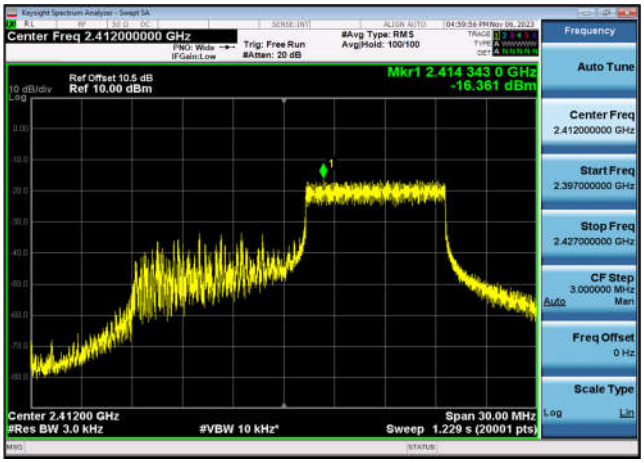
Power spectral density-802.11ax(HE20 _RU106_1),2462MHz,Ant7



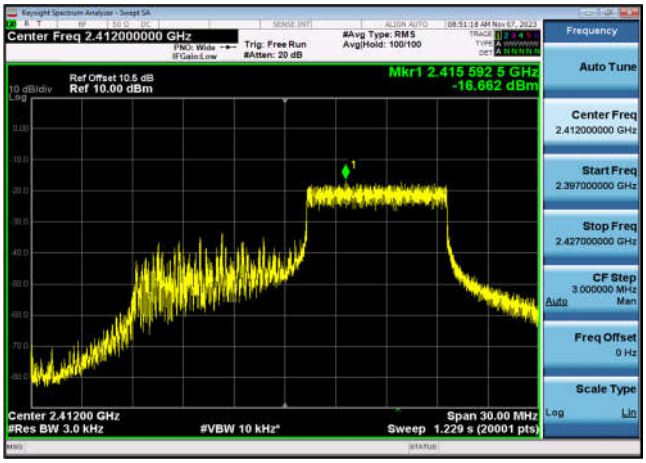
Power spectral density-802.11ax(HE20 _RU106_1),2462MHz,Ant6



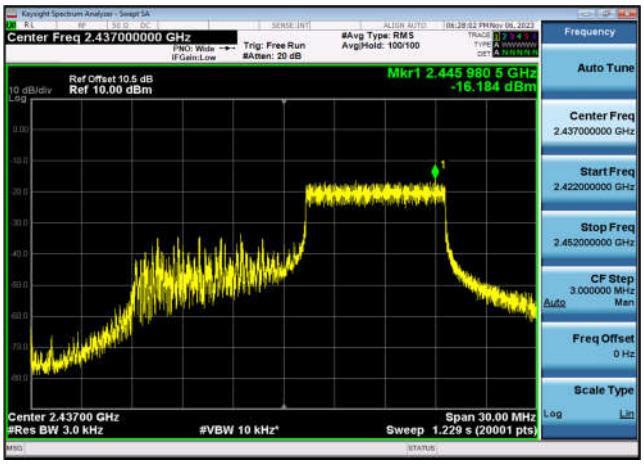
Power spectral density-802.11ax(HE20 _RU106_2),2412MHz,Ant7



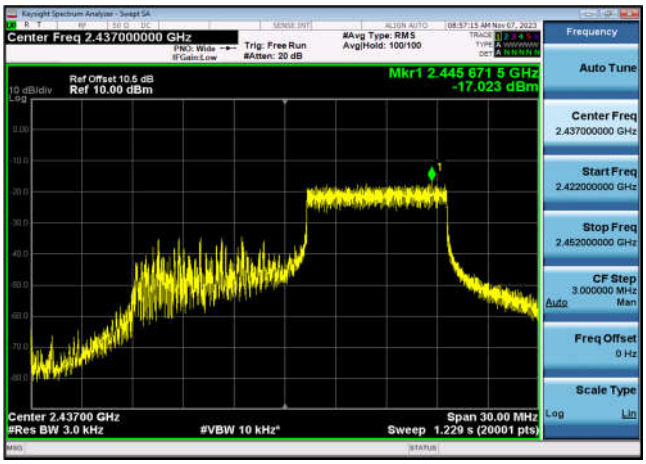
Power spectral density-802.11ax(HE20 _RU106_2),2412MHz,Ant6



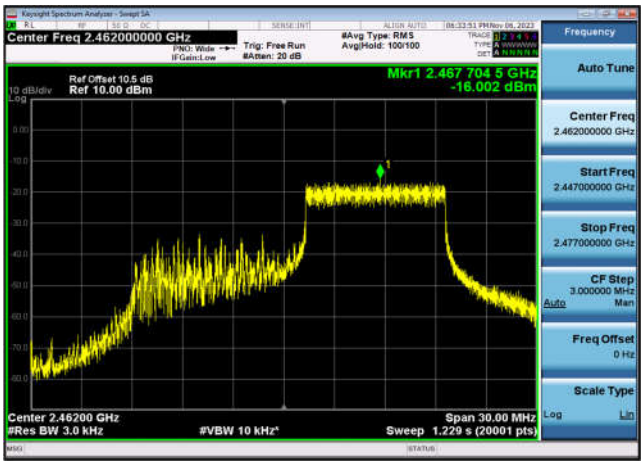
Power spectral density-802.11ax(HE20 _RU106_2),2437MHz,Ant7



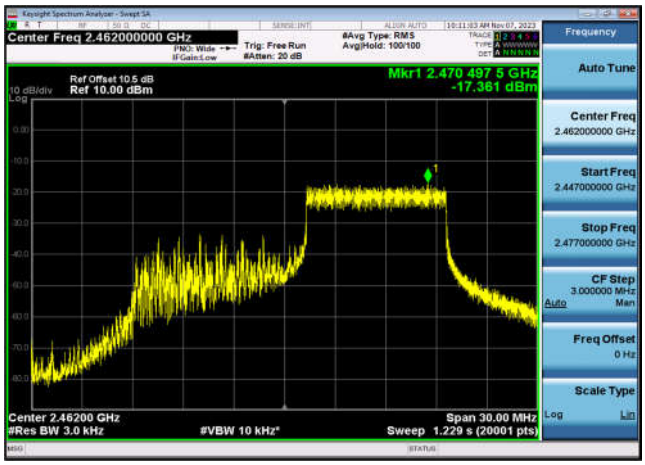
Power spectral density-802.11ax(HE20 _RU106_2),2437MHz,Ant6



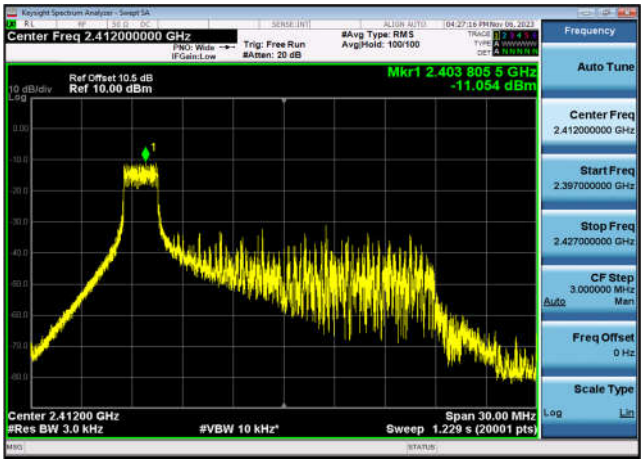
Power spectral density-802.11ax(HE20 _RU106_2),2462MHz,Ant7



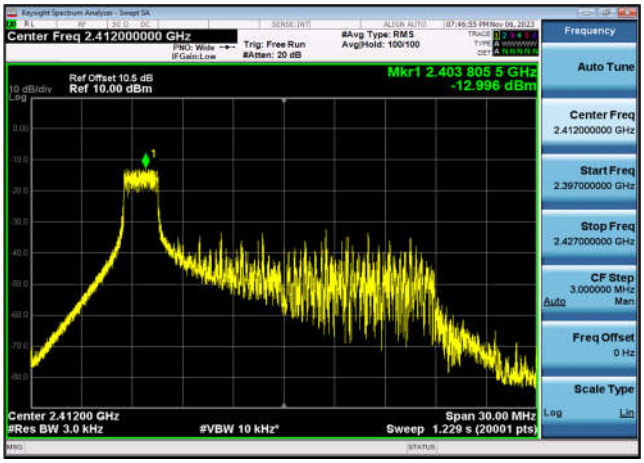
Power spectral density-802.11ax(HE20 _RU106_2),2462MHz,Ant6



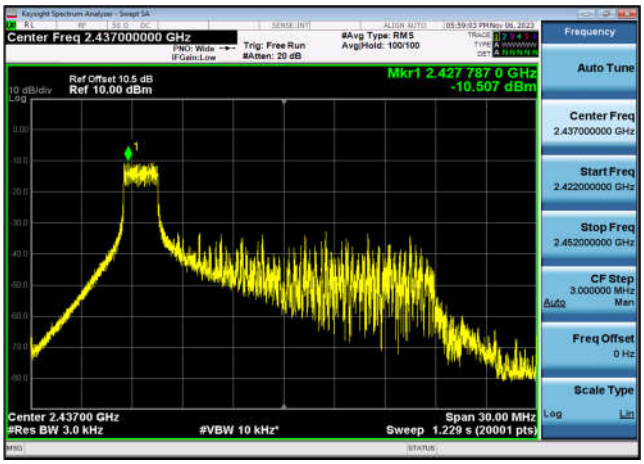
Power spectral density-802.11ax(HE20 _RU26_1),2412MHz,Ant7



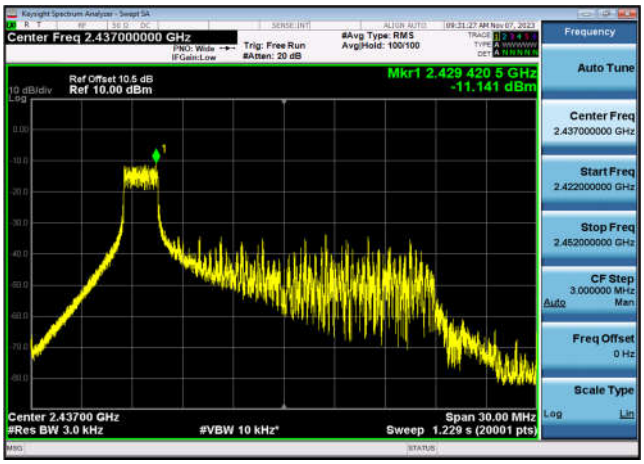
Power spectral density-802.11ax(HE20 _RU26_1),2412MHz,Ant6



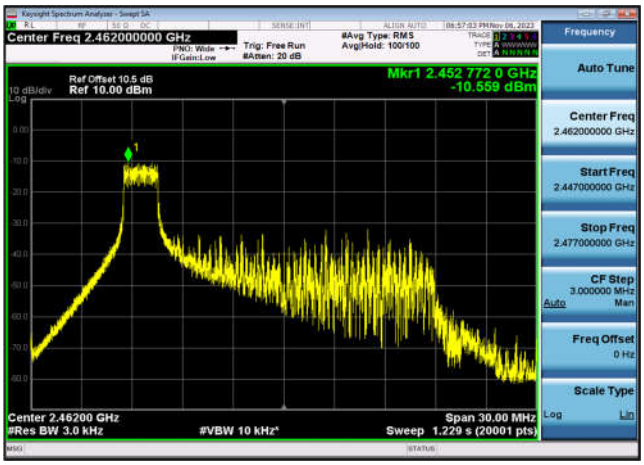
Power spectral density-802.11ax(HE20 _RU26_1),2437MHz,Ant7



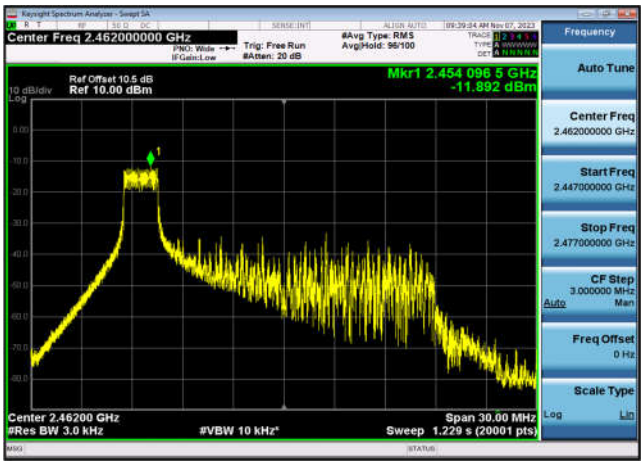
Power spectral density-802.11ax(HE20 _RU26_1),2437MHz,Ant6



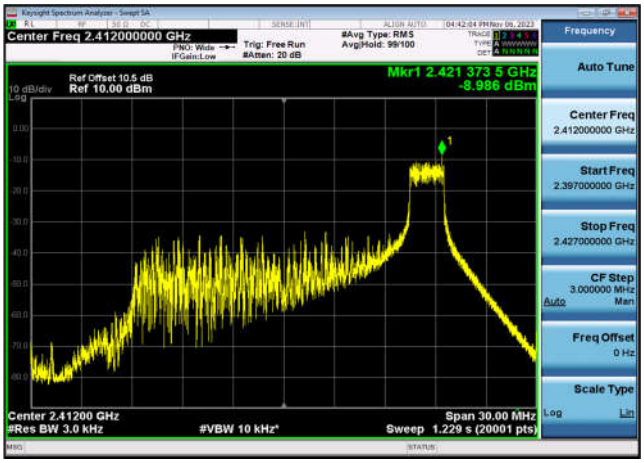
Power spectral density-802.11ax(HE20 _RU26_1),2462MHz,Ant7



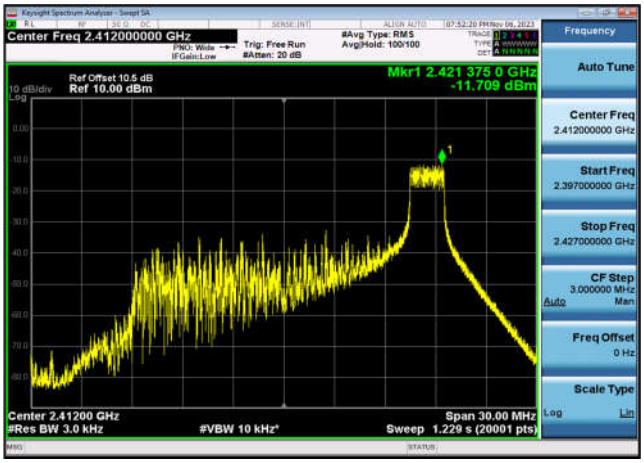
Power spectral density-802.11ax(HE20 _RU26_1),2462MHz,Ant6



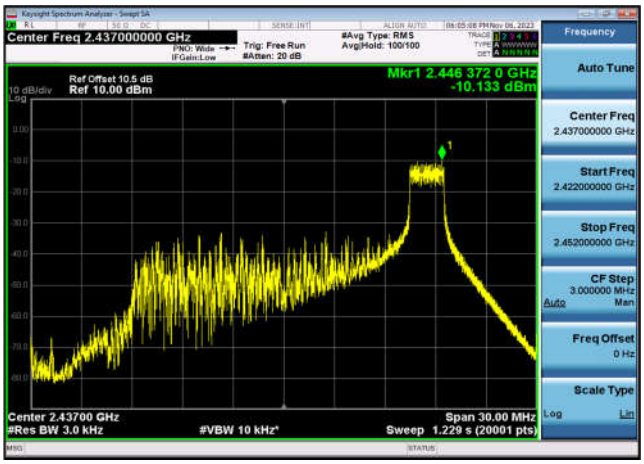
Power spectral density-802.11ax(HE20 _RU26_9),2412MHz,Ant7



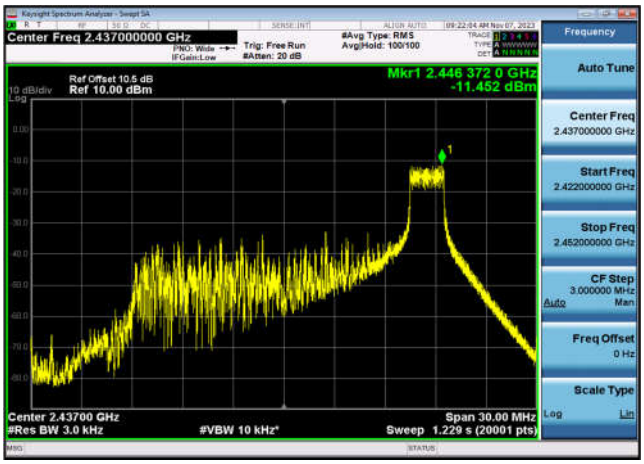
Power spectral density-802.11ax(HE20 _RU26_9),2412MHz,Ant6



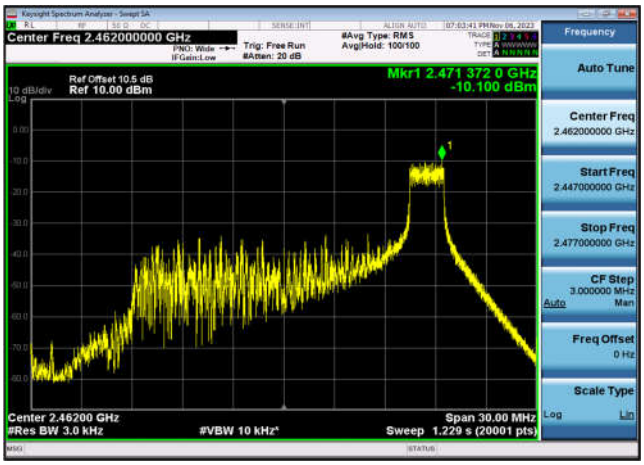
Power spectral density-802.11ax(HE20 _RU26_9),2437MHz,Ant7



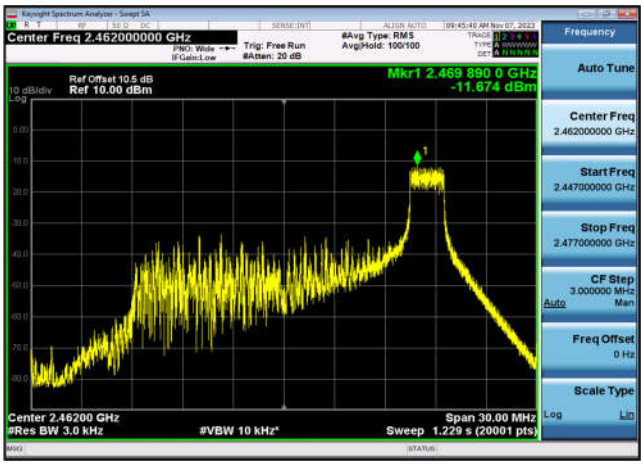
Power spectral density-802.11ax(HE20 _RU26_9),2437MHz,Ant6



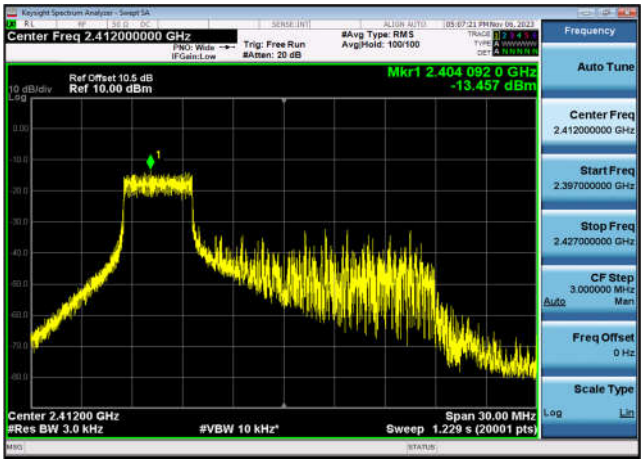
Power spectral density-802.11ax(HE20 _RU26_9),2462MHz,Ant7



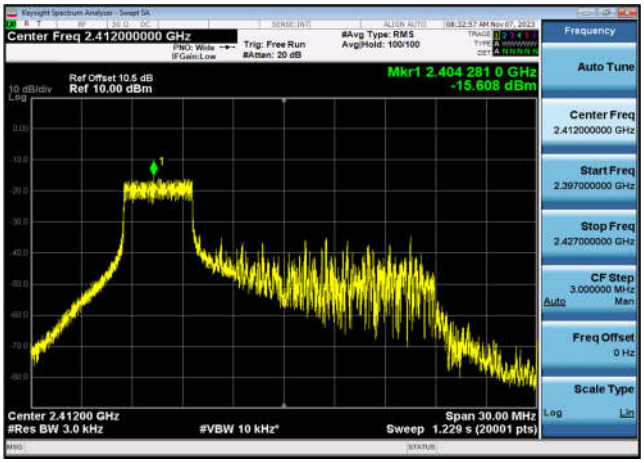
Power spectral density-802.11ax(HE20 _RU26_9),2462MHz,Ant6



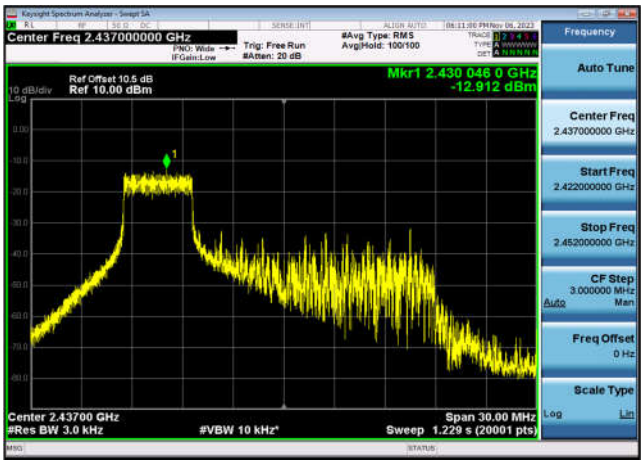
Power spectral density-802.11ax(HE20 _RU52_1),2412MHz,Ant7



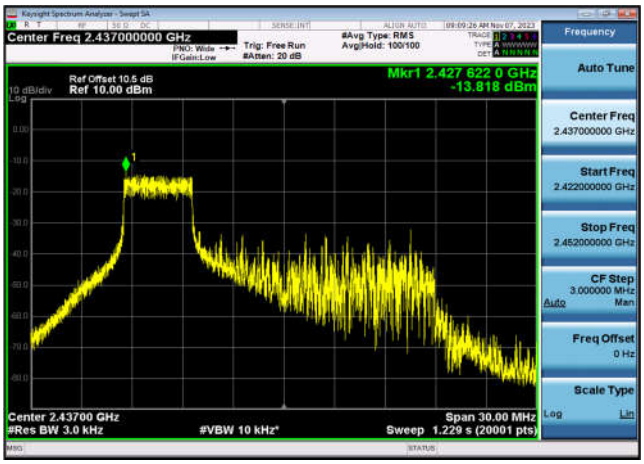
Power spectral density-802.11ax(HE20 _RU52_1),2412MHz,Ant6



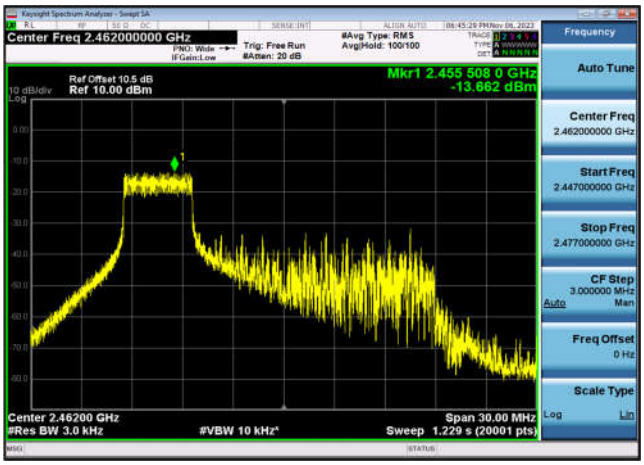
Power spectral density-802.11ax(HE20 _RU52_1),2437MHz,Ant7



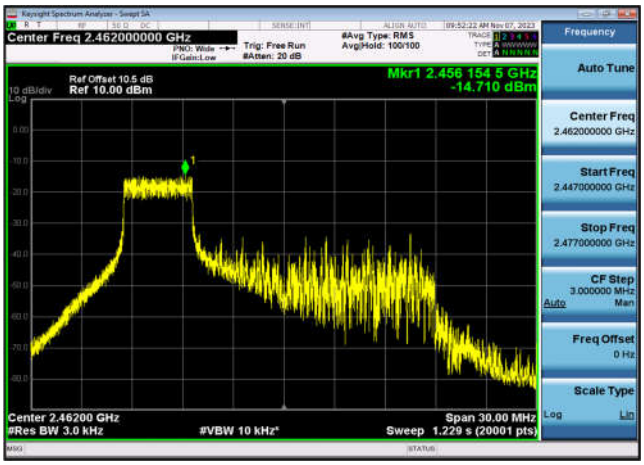
Power spectral density-802.11ax(HE20 _RU52_1),2437MHz,Ant6



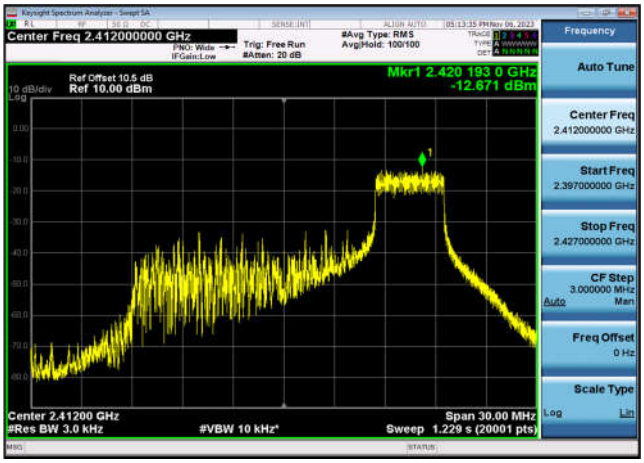
Power spectral density-802.11ax(HE20 _RU52_1),2462MHz,Ant7



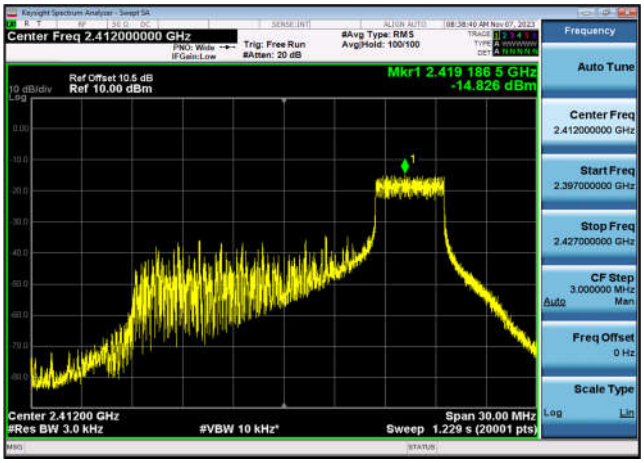
Power spectral density-802.11ax(HE20 _RU52_1),2462MHz,Ant6



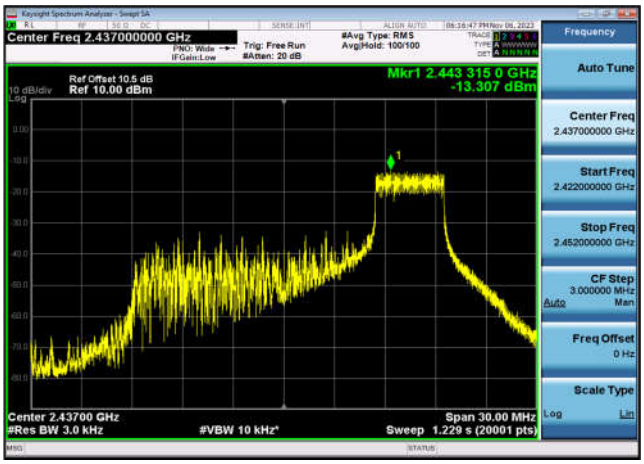
Power spectral density-802.11ax(HE20 _RU52_4),2412MHz,Ant7



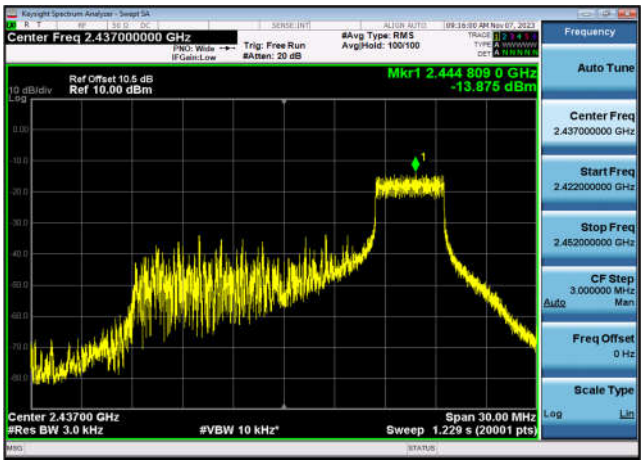
Power spectral density-802.11ax(HE20 _RU52_4),2412MHz,Ant6



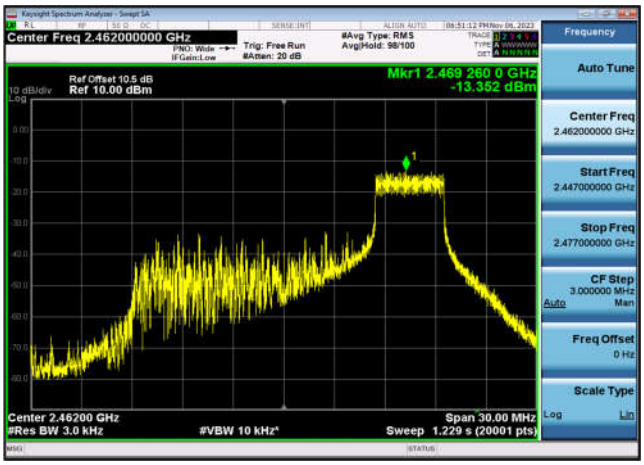
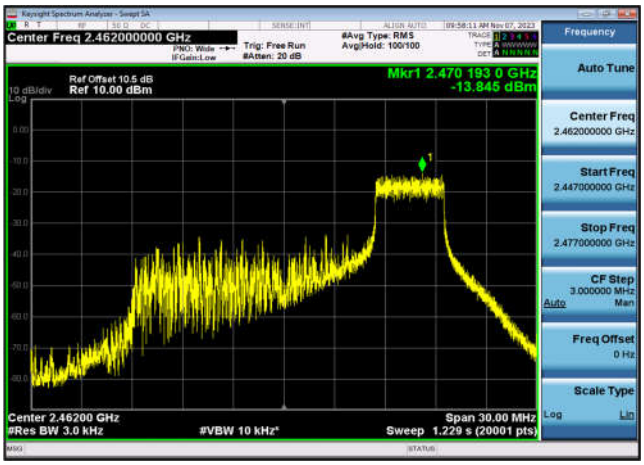
Power spectral density-802.11ax(HE20 _RU52_4),2437MHz,Ant7



Power spectral density-802.11ax(HE20 _RU52_4),2437MHz,Ant6



Power spectral density-802.11ax(HE20 _RU52_4),2462MHz,Ant7



Power spectral density-802.11ax(HE20 _RU52_4),2462MHz,Ant6