APPENDIX REPORT

Project No.	SHT2009015201EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT20090152004	Model No.	ABX00032
Start test date	2020/9/17	Finish date	2020/9/17
Temperature	25°C	Humidity	50%
Test Engineer	Jiongsheng.Feng	Auditor	Xiaodong Zhao

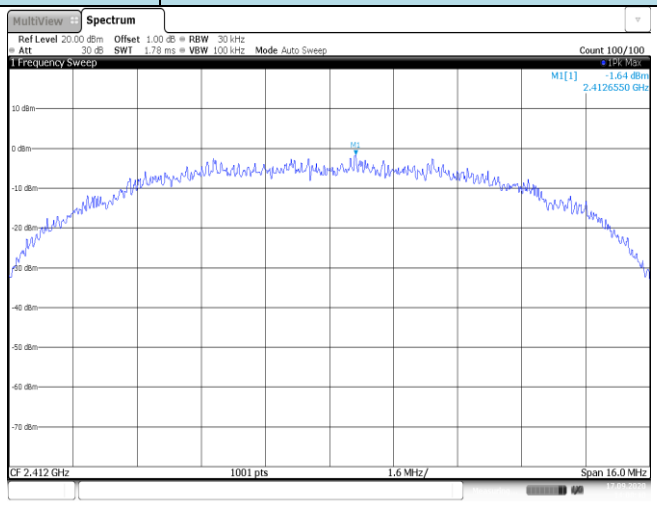
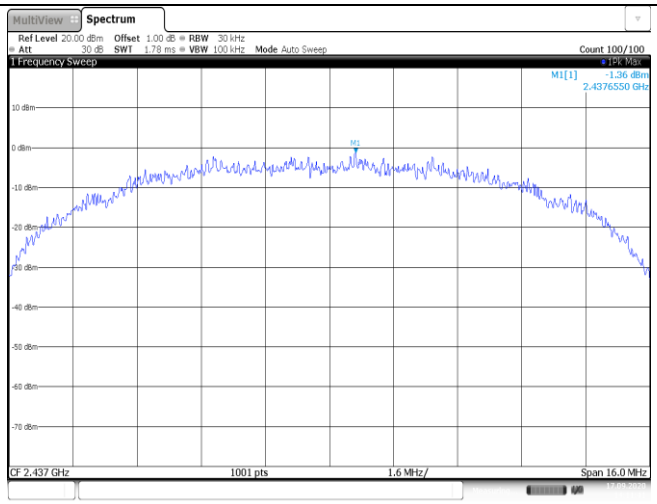
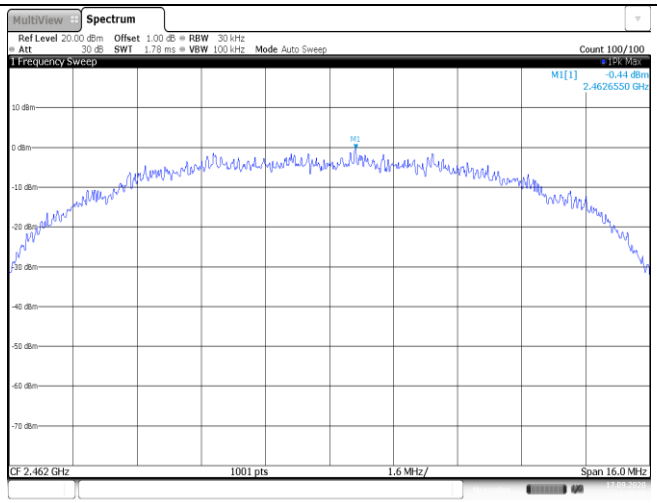
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

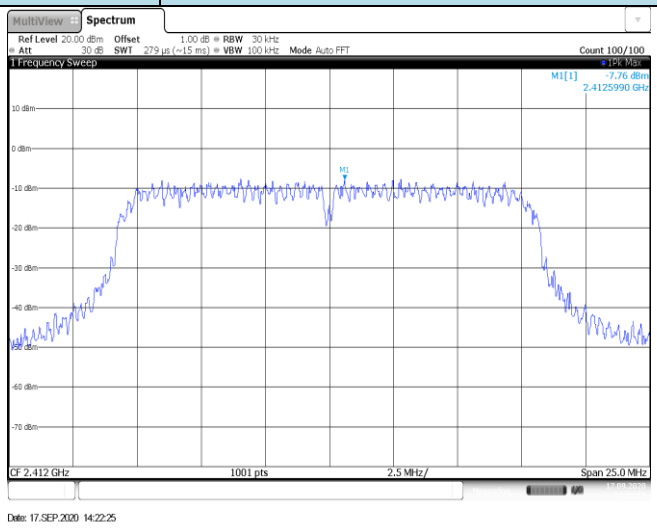
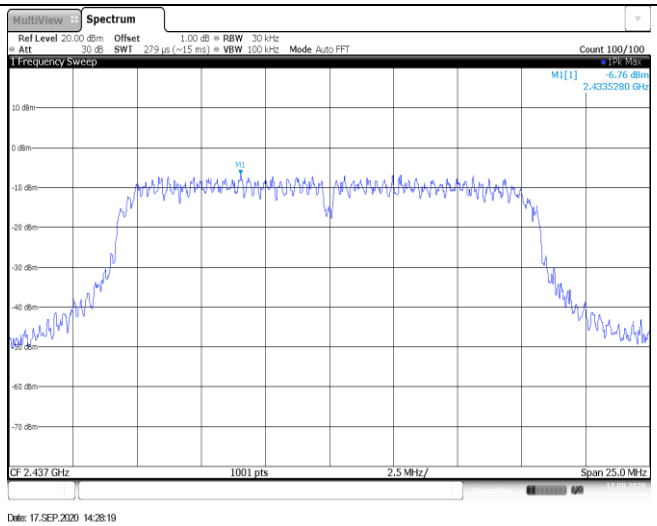
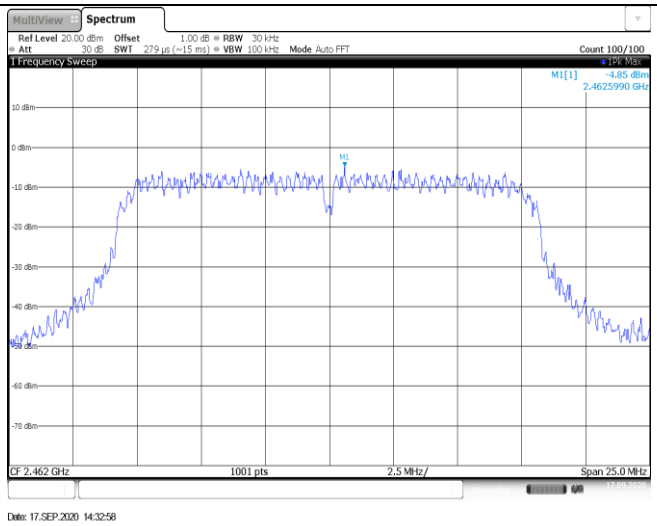
Appendix A：Conducted Peak Output Power

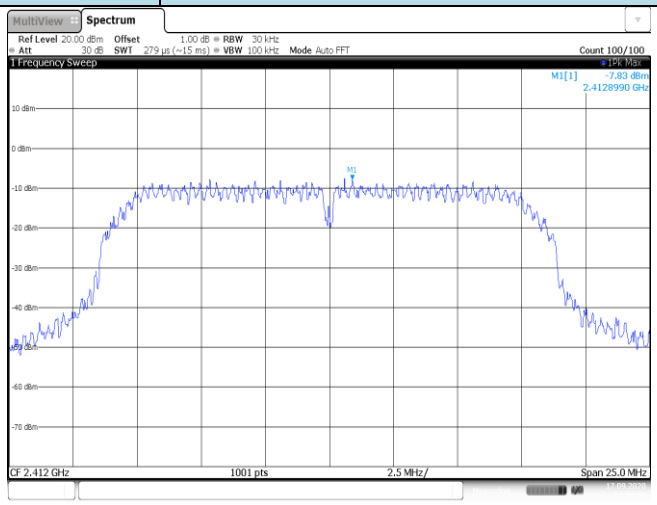
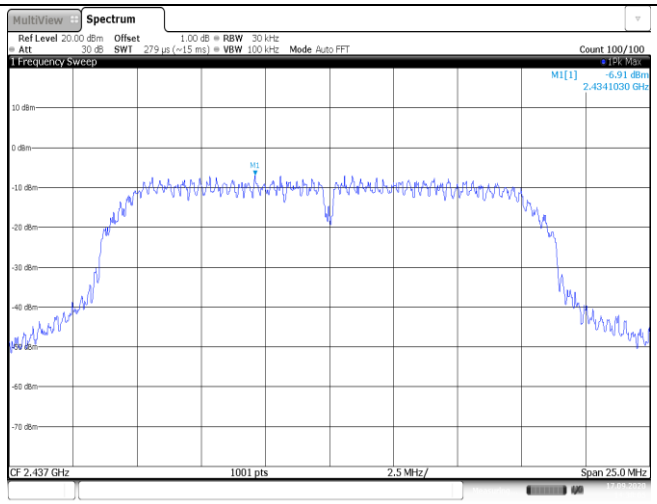
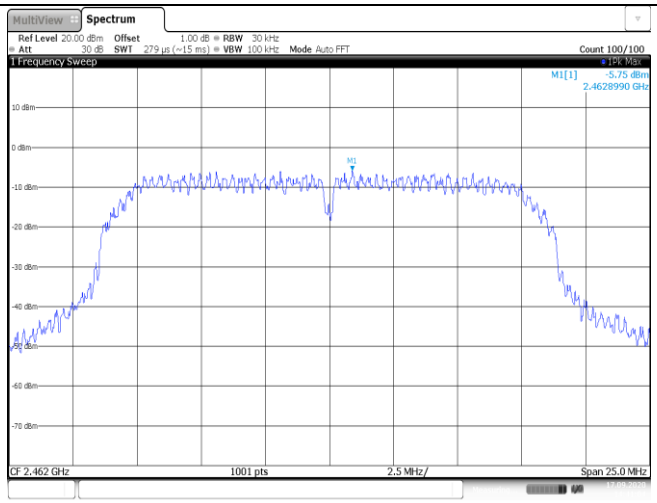
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	19.14	17.48	≤ 30.00	Pass
	06	18.86	17.22		
	11	20.04	18.31		
802.11g	01	17.19	15.03	≤ 30.00	Pass
	06	17.91	15.57		
	11	19.40	16.97		
802.11n (HT20)	01	17.25	15.32	≤ 30.00	Pass
	06	17.78	15.44		
	11	19.25	16.84		

Appendix B：Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-1.64	≤8.00	Pass
	06	-1.36		
	11	-0.44		
802.11g	01	-7.76	≤8.00	Pass
	06	-6.76		
	11	-4.85		
802.11n(HT20)	01	-7.83	≤8.00	Pass
	06	-6.91		
	11	-5.75		

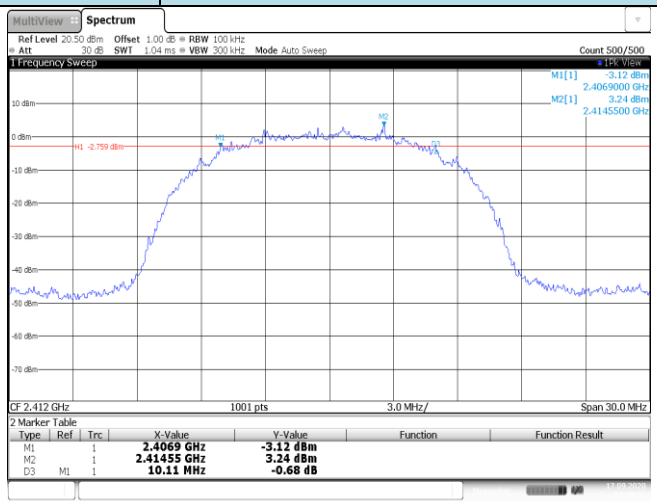
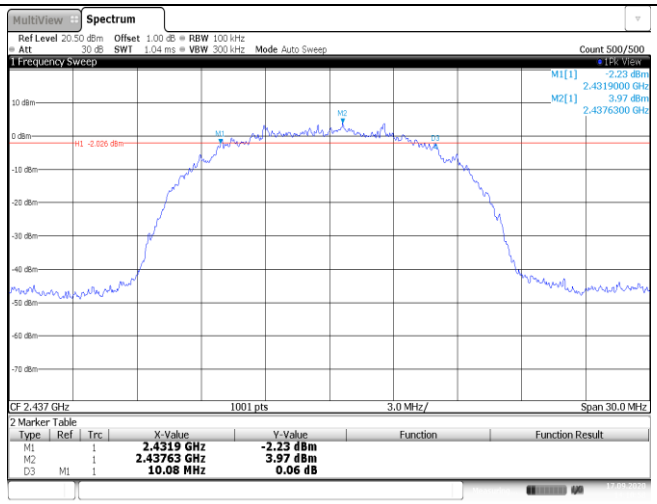
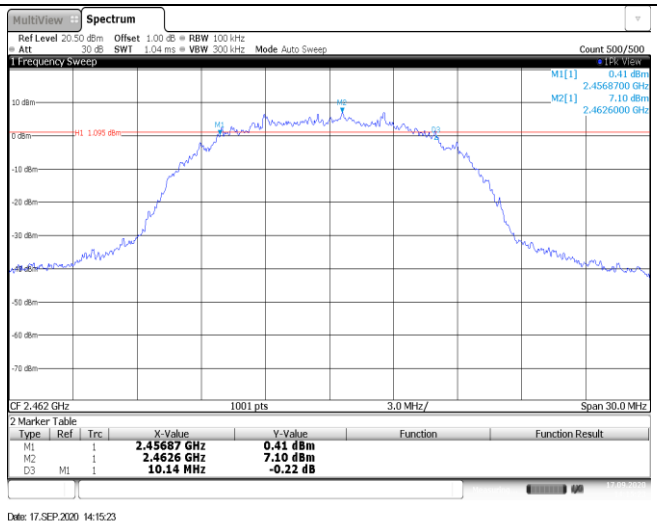
Type:	802.11 b
CH01	
CH06	
CH11	

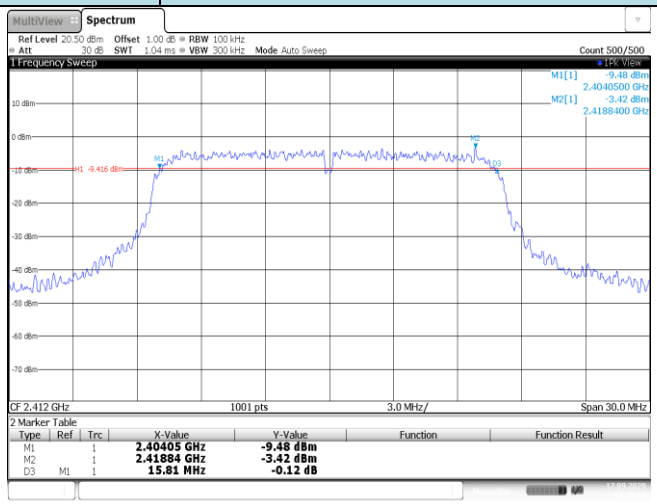
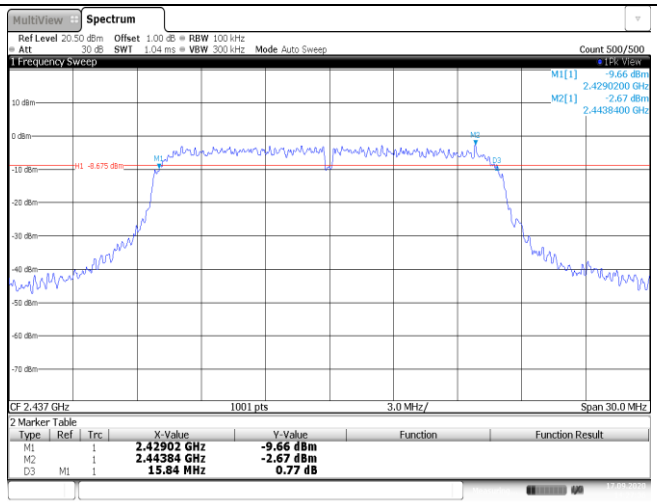
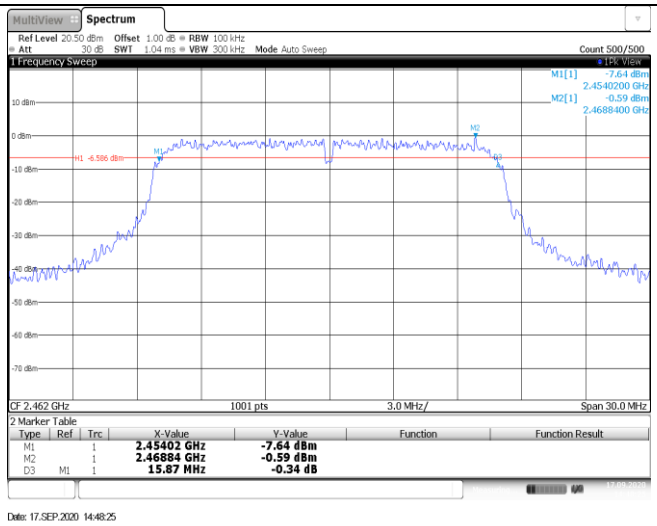
Type:	802.11 g
CH01	
CH06	
CH11	

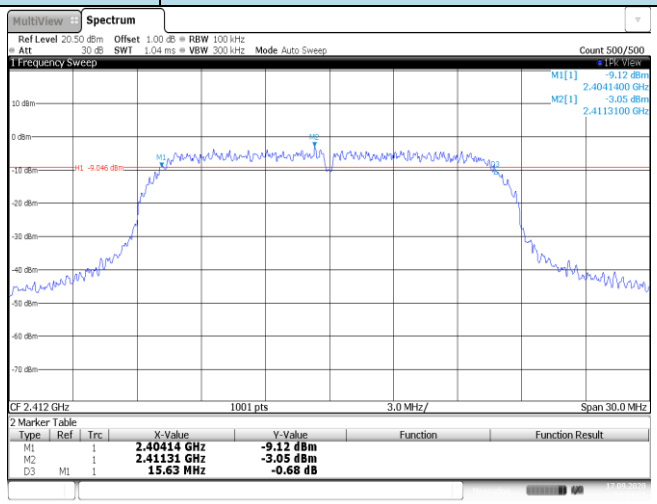
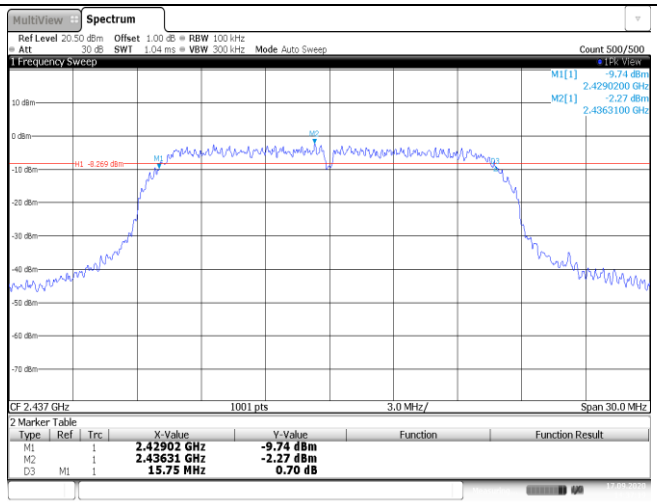
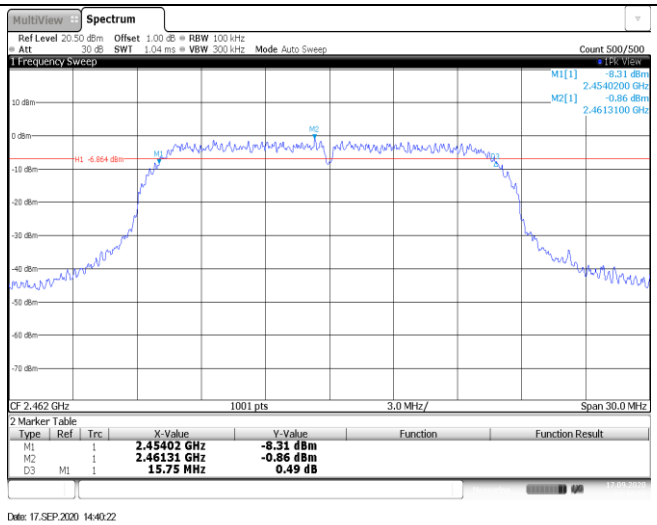
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

Appendix C：6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	10.11	≥0.5	Pass
	06	10.08		
	11	10.14		
802.11g	01	15.81	≥0.5	Pass
	06	15.84		
	11	15.87		
802.11n(HT20)	01	15.63	≥0.5	Pass
	06	15.75		
	11	15.75		

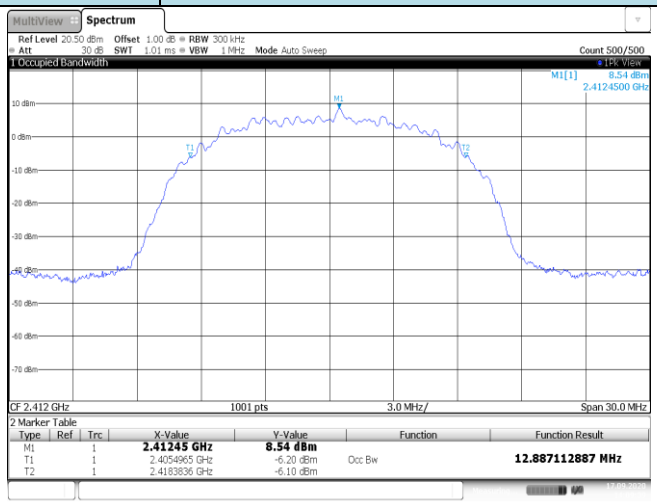
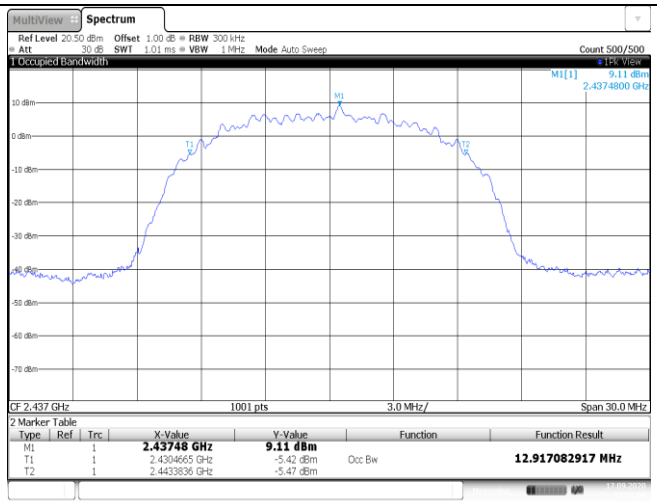
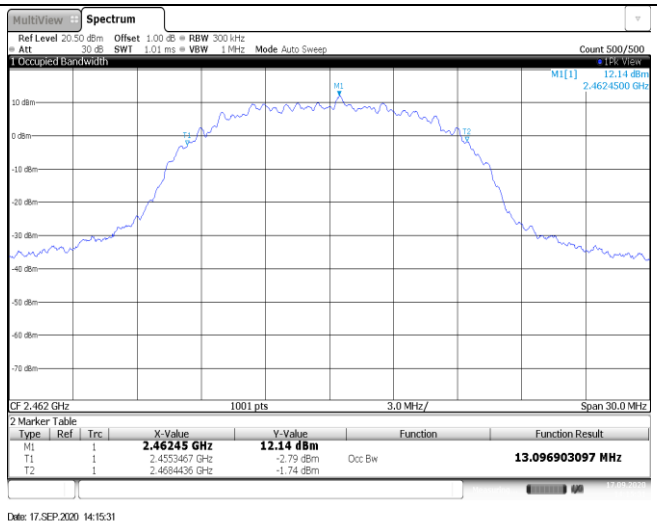
Type:	802.11 b
CH01	
CH06	
CH11	

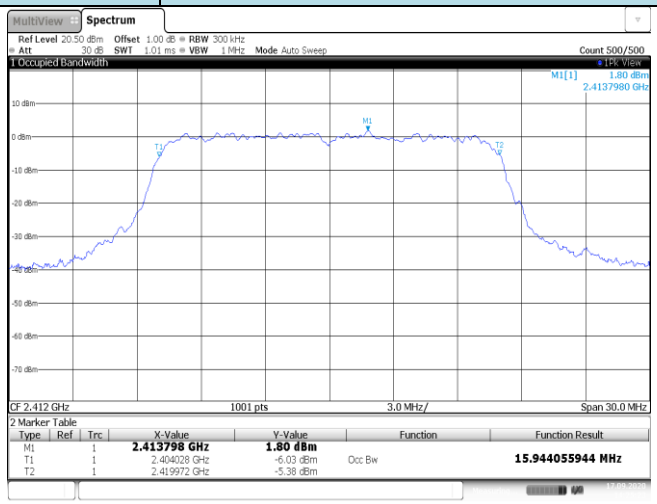
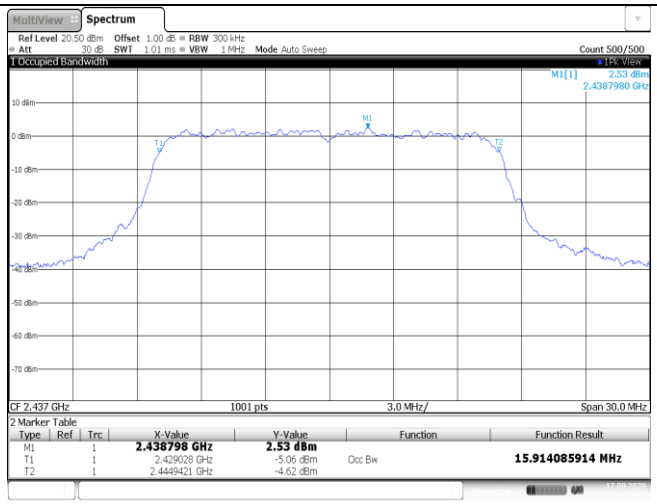
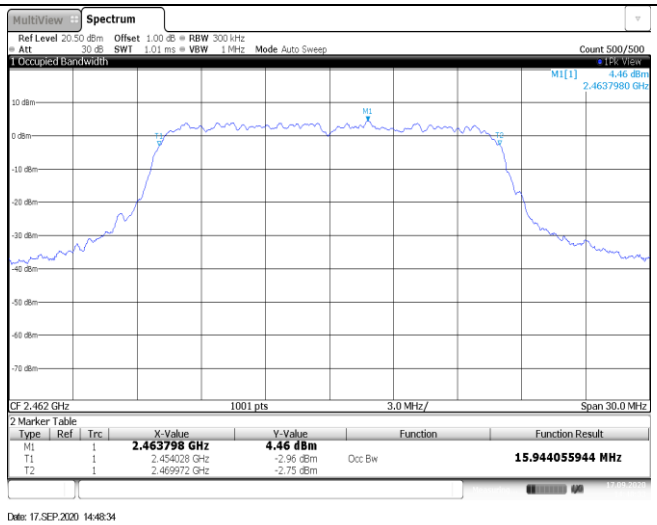
Type:	802.11 g
CH01	
CH06	
CH11	

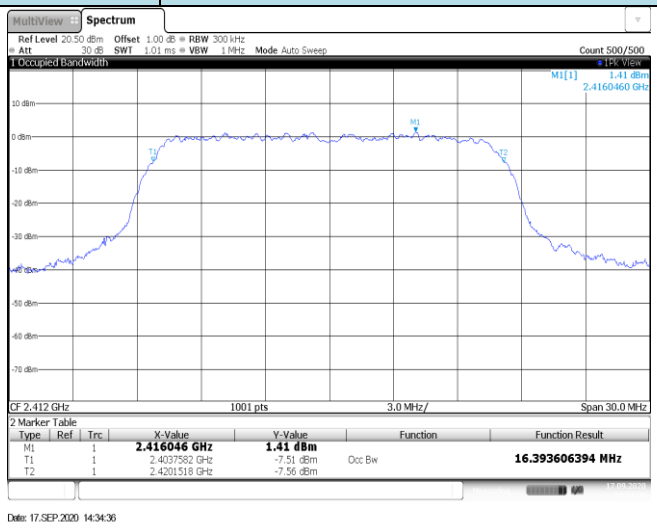
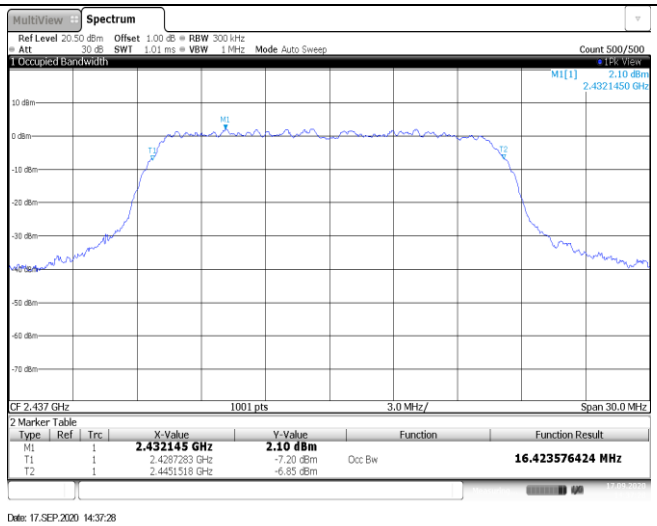
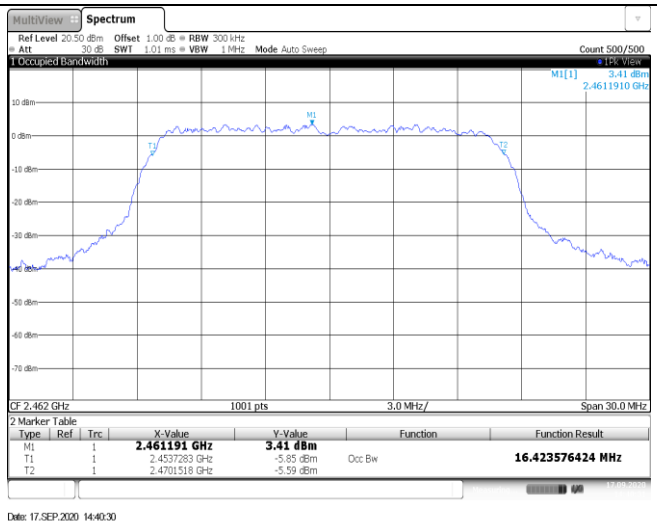
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

Appendix D：99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	12.89	-	Pass
	06	12.92		
	11	13.10		
802.11g	01	15.94	-	Pass
	06	15.91		
	11	15.94		
802.11n(HT20)	01	16.39	-	Pass
	06	16.42		
	11	16.42		

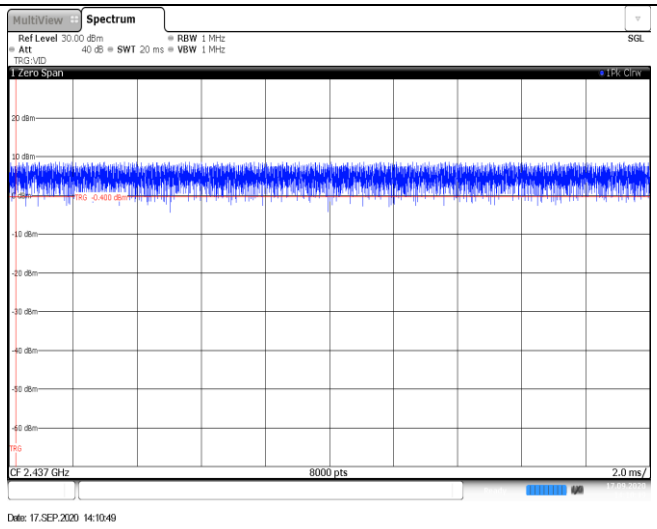
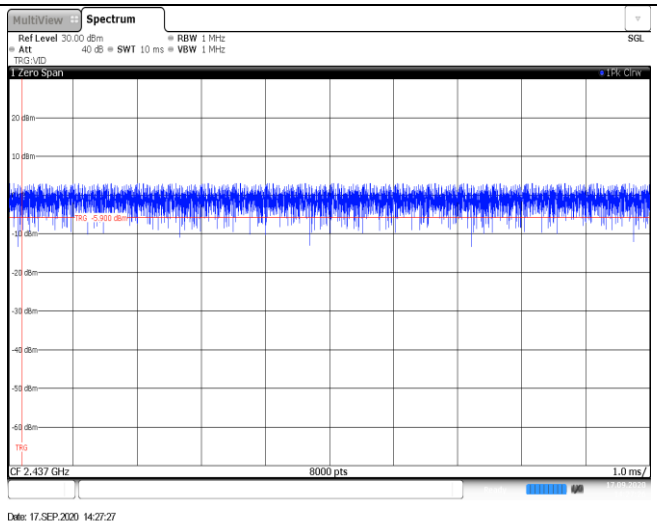
Type:	802.11 b
CH01	
CH06	
CH11	

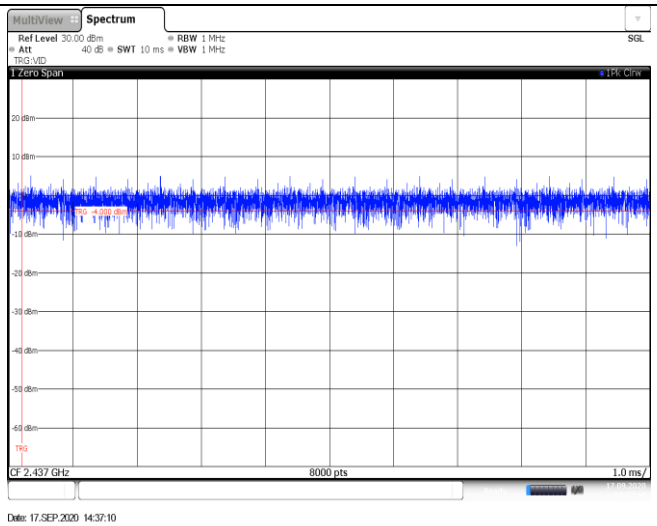
Type:	802.11 g
CH01	
CH06	
CH11	

Type:	802.11n(HT20)
CH01	
CH06	
CH11	

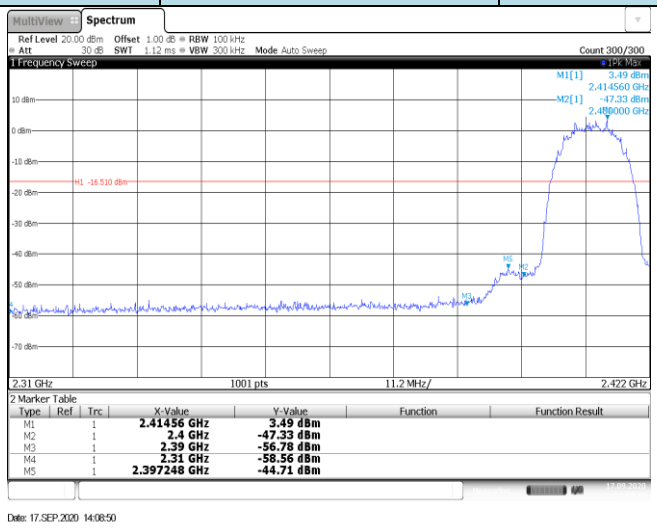
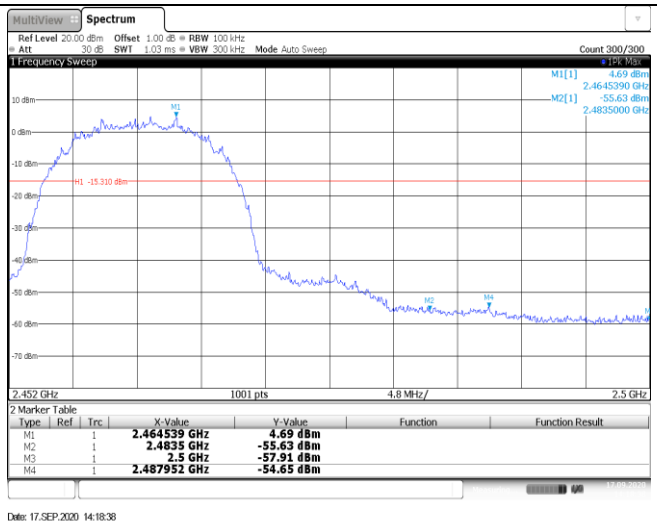
Appendix E：Duty Cycle

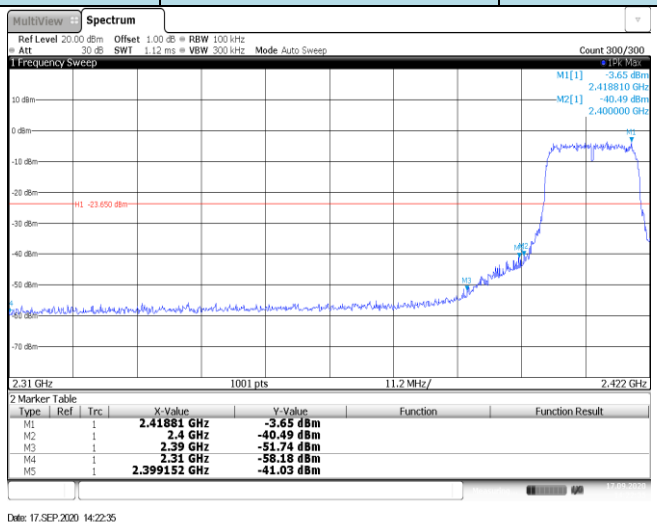
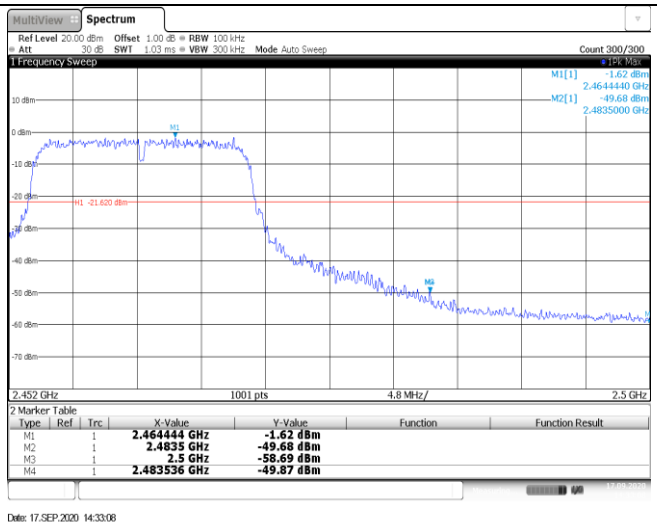
Modulation Type	Test Frequency （MHz）	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
11b	2437	1.00	1.00	100%	1.0
11g	2437	1.00	1.00	100%	1.0
11n20	2437	1.00	1.00	100%	1.0

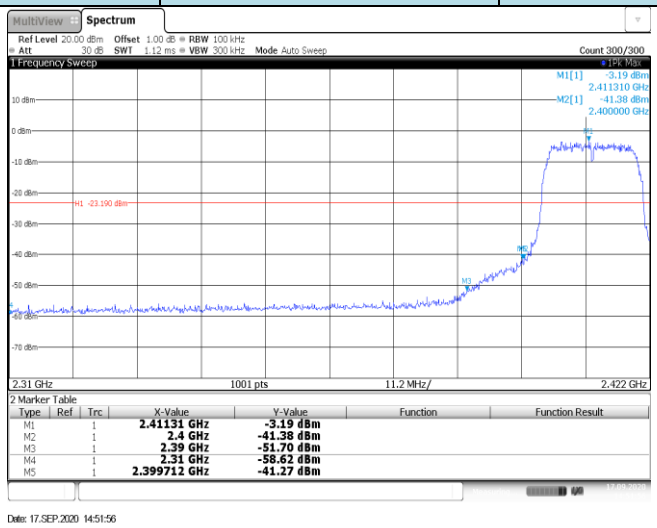
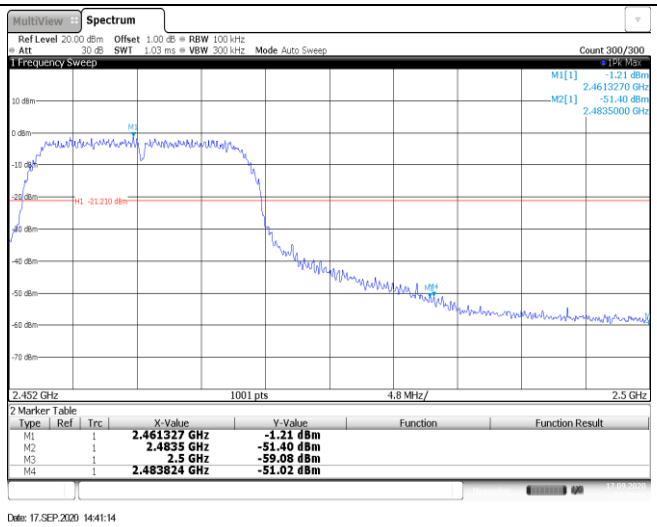
11b	
11g	

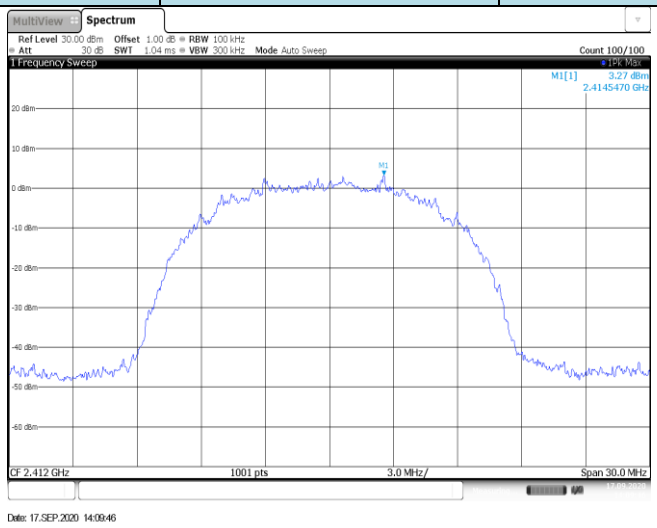
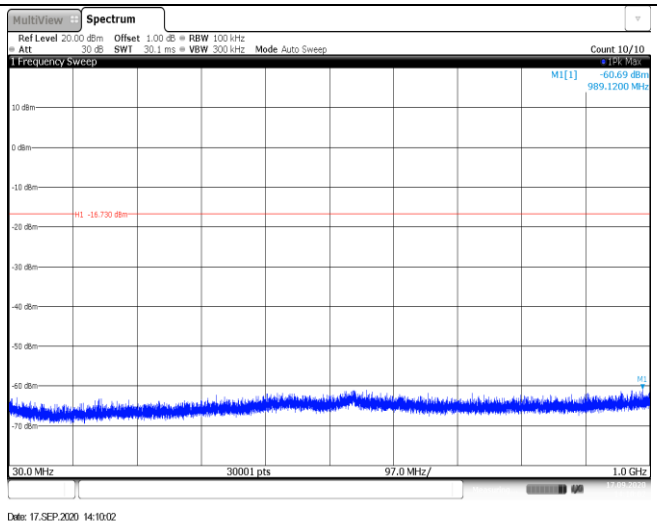
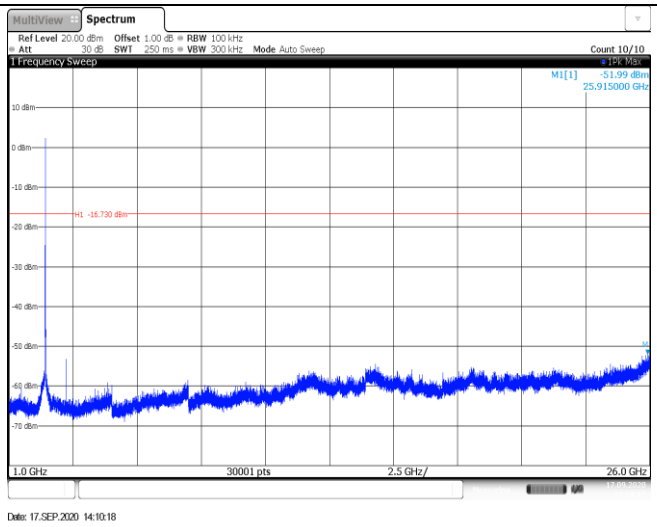
11n20	 MultiView Spectrum Ref Level 30.00 dBm RBW 1 MHz SGL Att 40 dB SWT 10 ms VBW 1 MHz TRG:VID 1 Zero Span 1Pk Clrw 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm TRG CF 2.437 GHz 8000 pts 1.0 ms/ Date: 17.SEP.2020 14:37:10

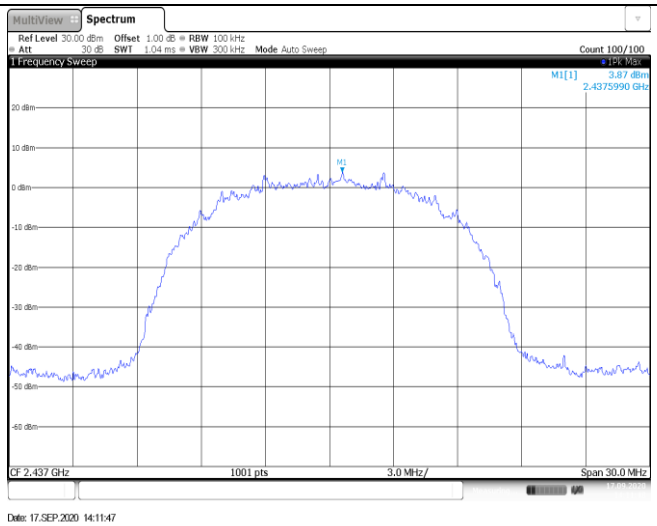
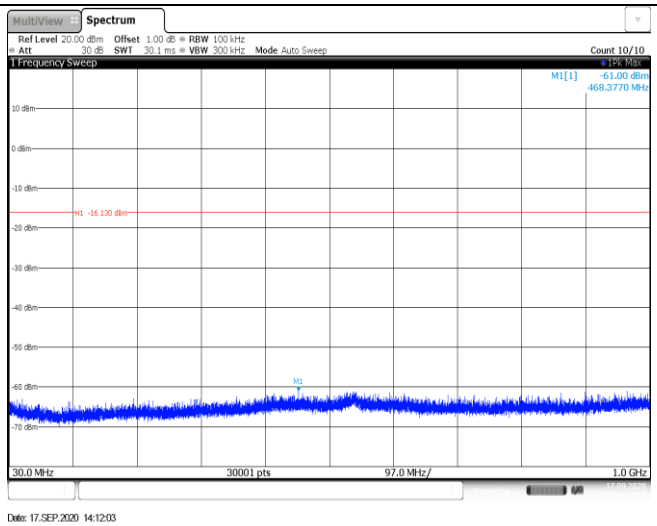
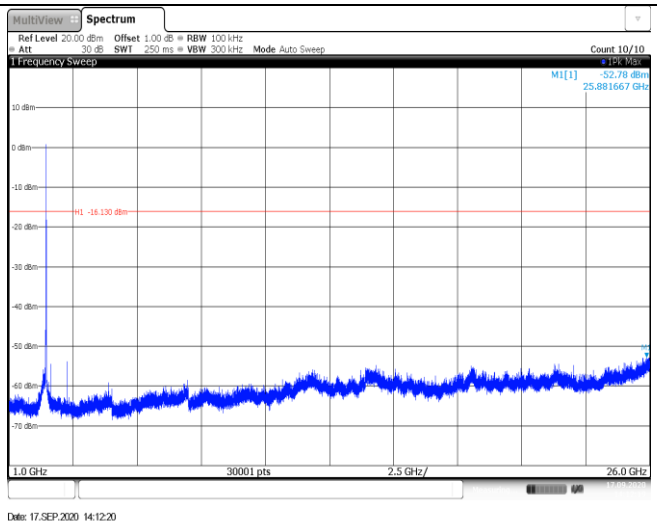
Appendix F：Band edge and Spurious Emissions (conducted)

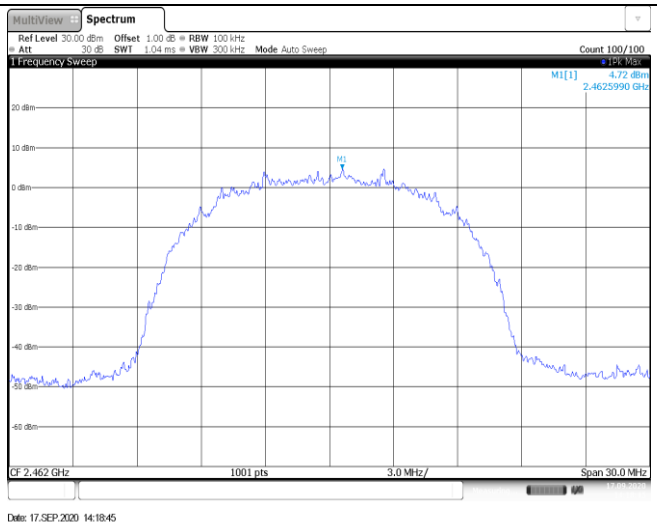
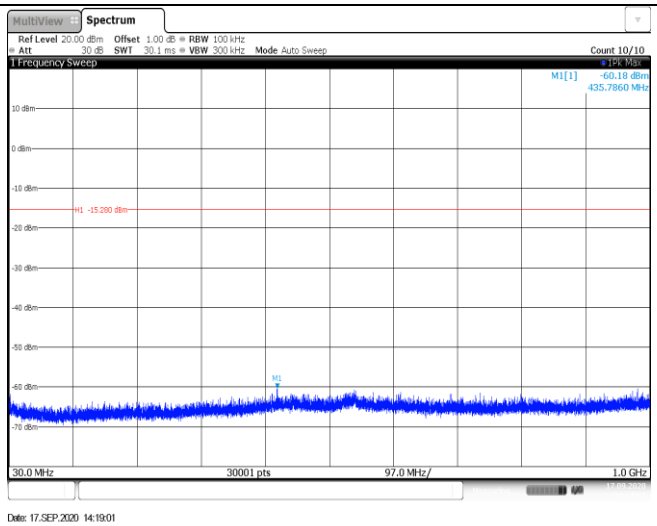
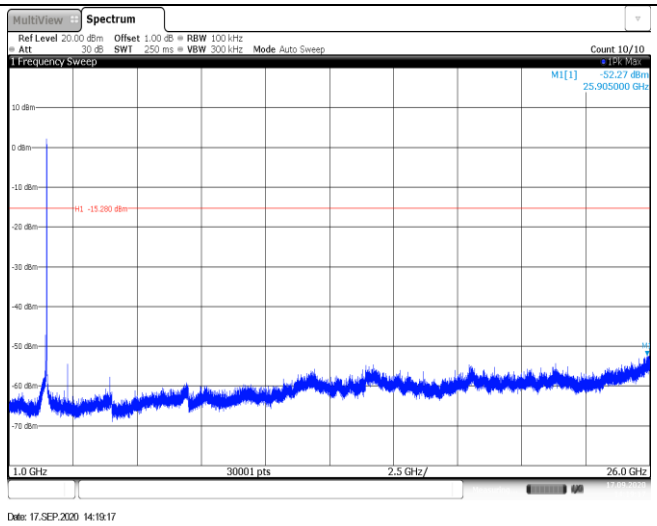
Test Item:	Bandedge	Type:	802.11 b
CH01			
CH11			

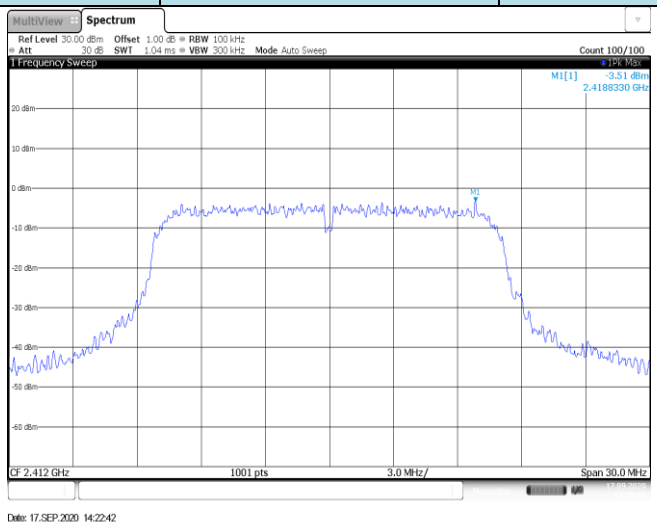
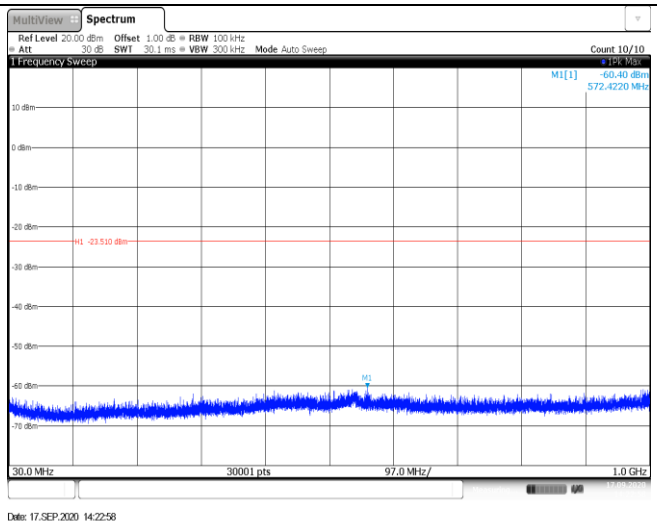
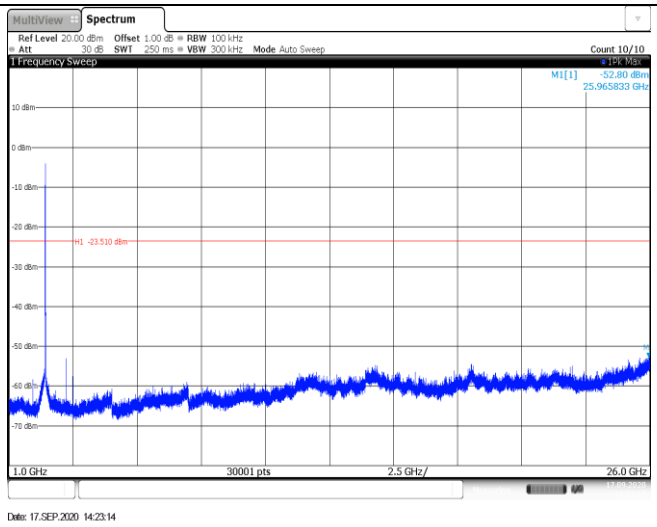
Test Item:	Bandedge	Type:	802.11 g
CH01	
CH11	

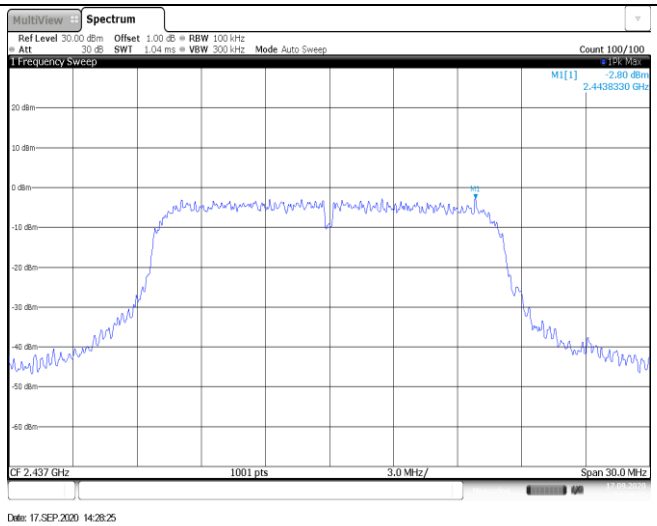
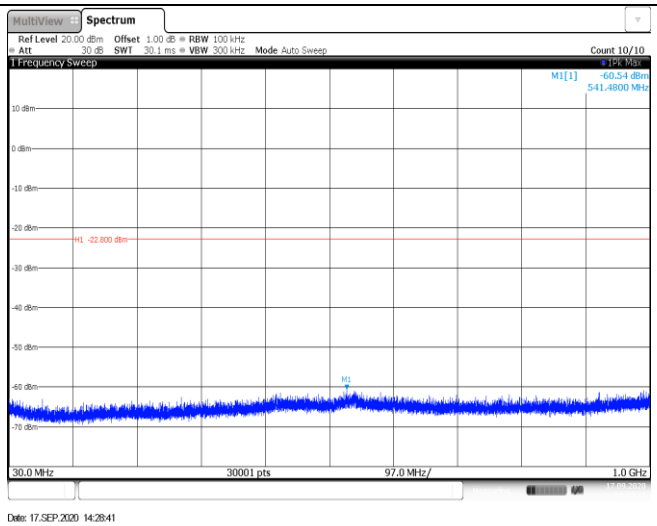
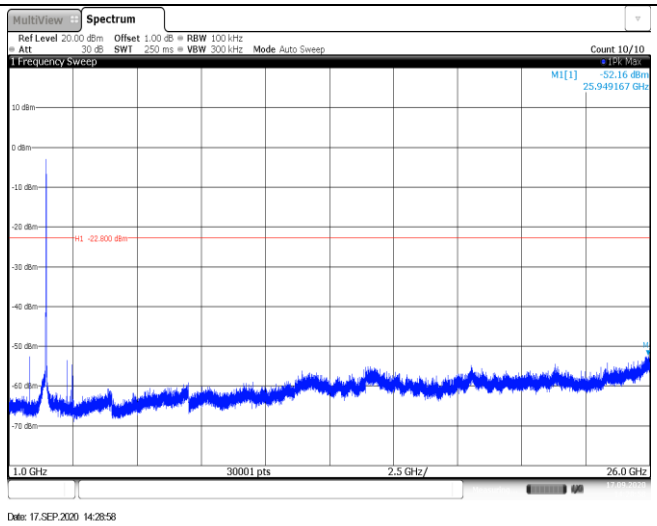
Test Item:	Bandedge	Type:	802.11 n(HT20)
CH01			
CH11			

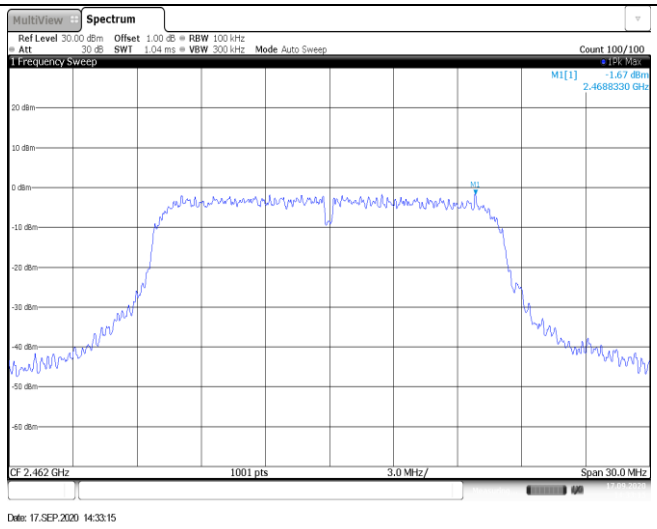
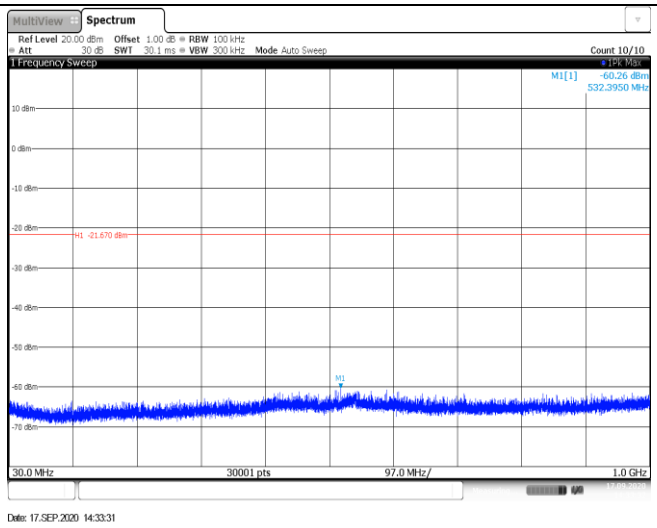
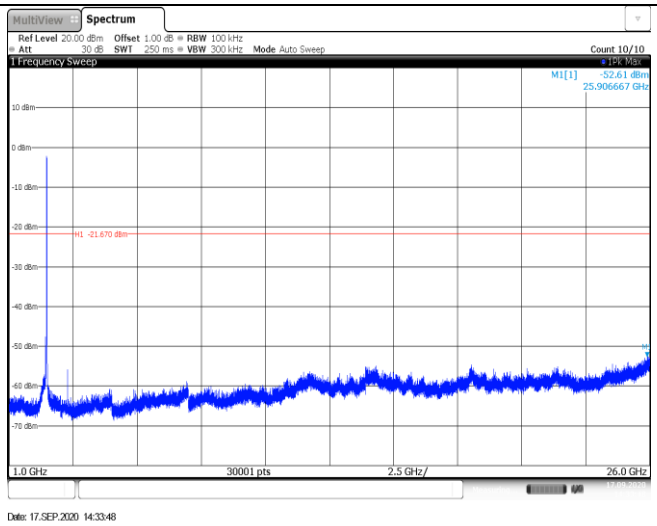
Test Item:	SE	Type:	802.11 b
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

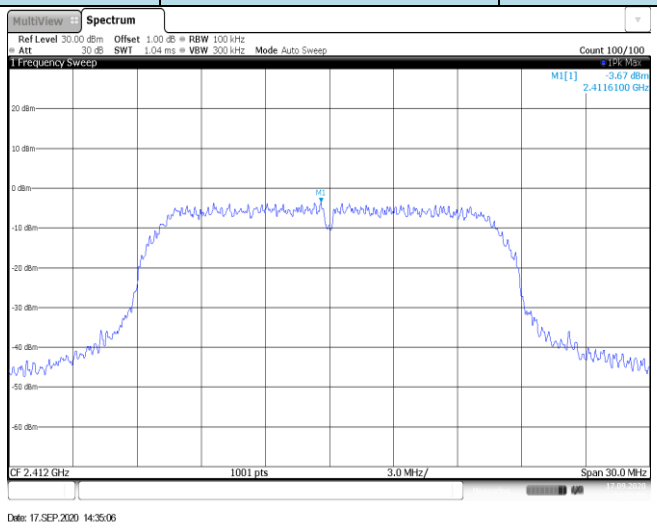
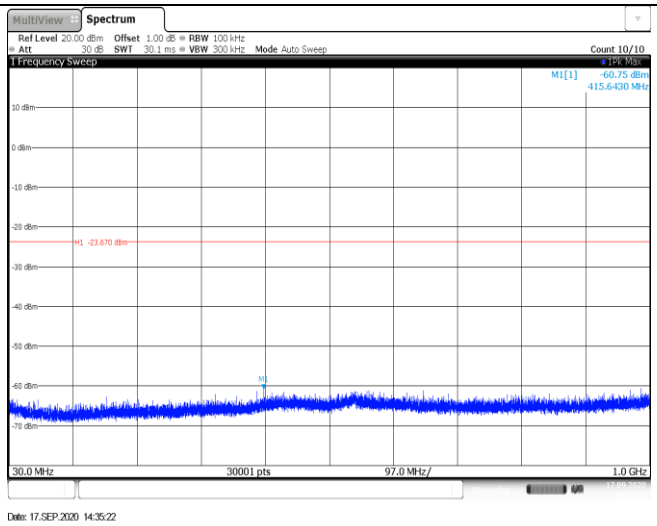
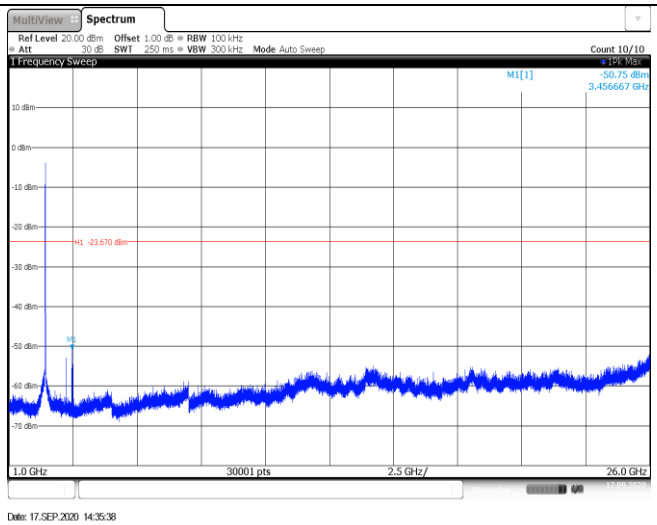
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

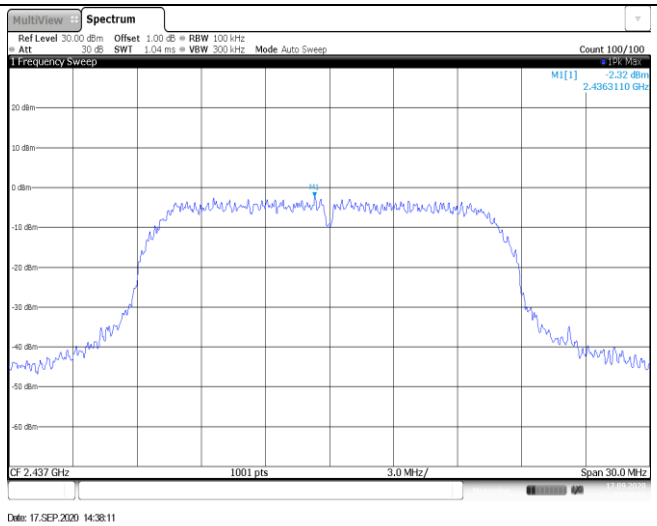
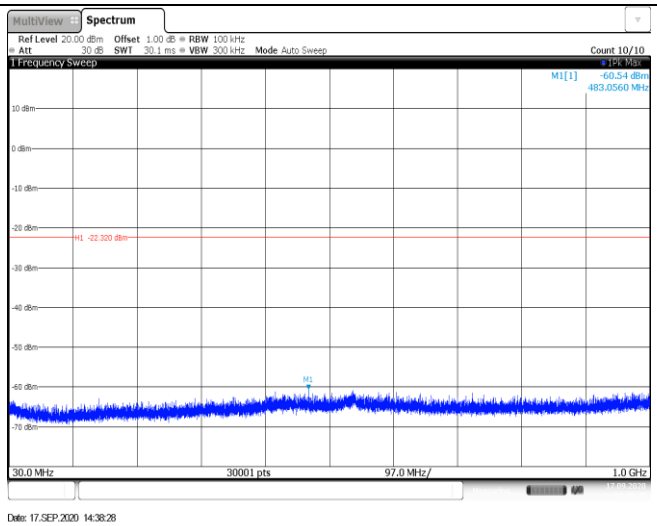
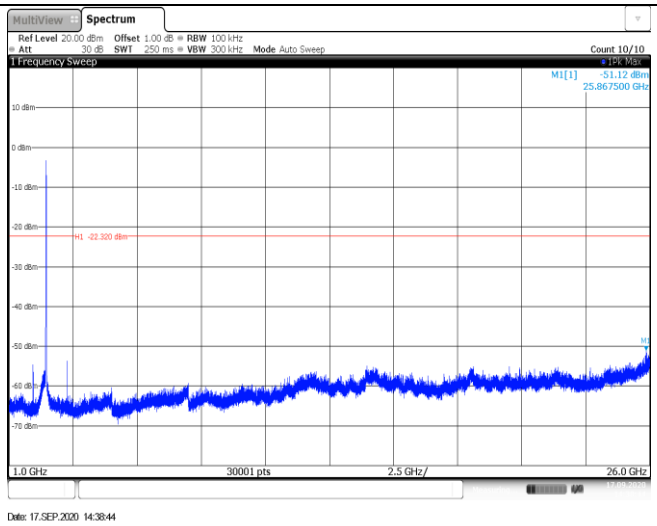
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

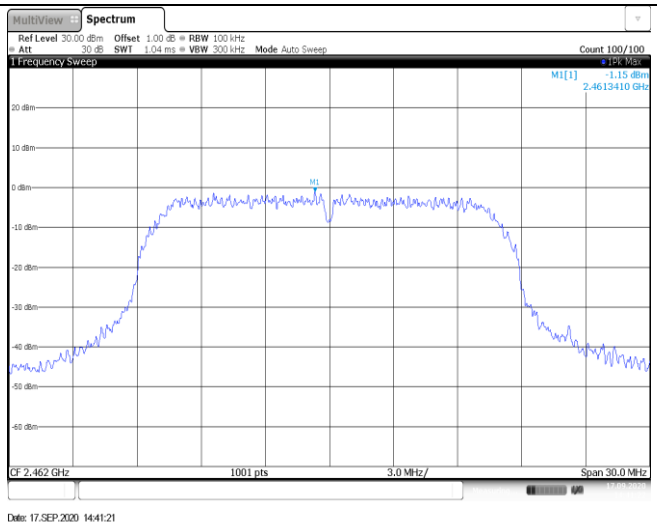
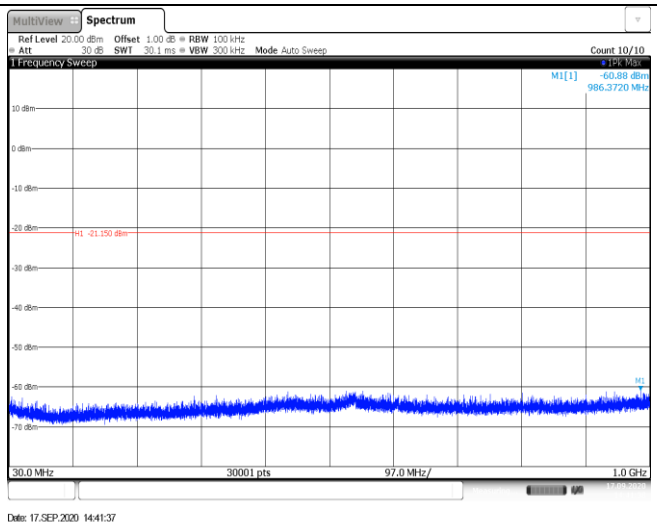
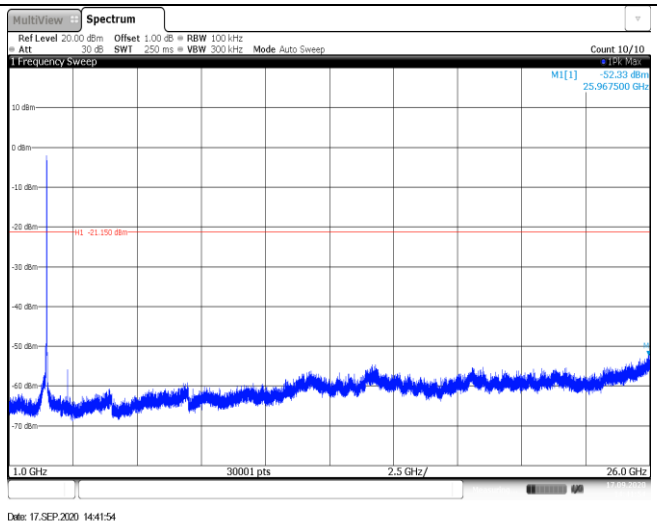
Test Item:	SE	Type:	802.11 g
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

Test Item:	SE	Type:	802.11 n(HT20)
CH01 Reference level	
CH01 30MHz~1000MHz	
CH01 1GHz~26GHz	

CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

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