APPENDIX REPORT

Project No.	SHT2105056502EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT21050565002	Model No.	YHS.3120
Start test date	2021-05-27	Finish date	2021-05-27
Temperature	26.2°C	Humidity	35%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhao

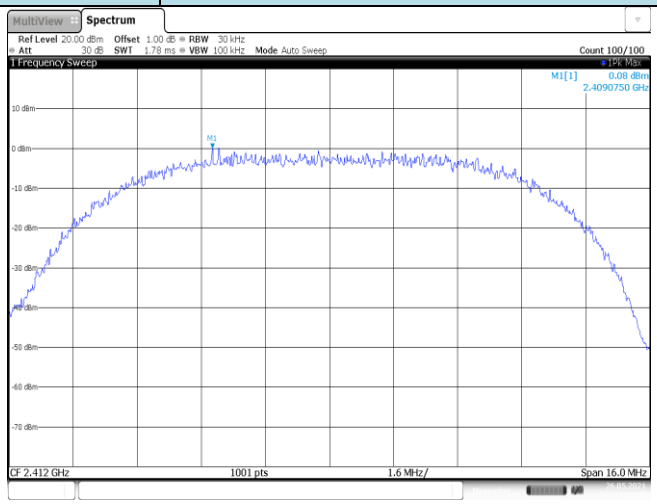
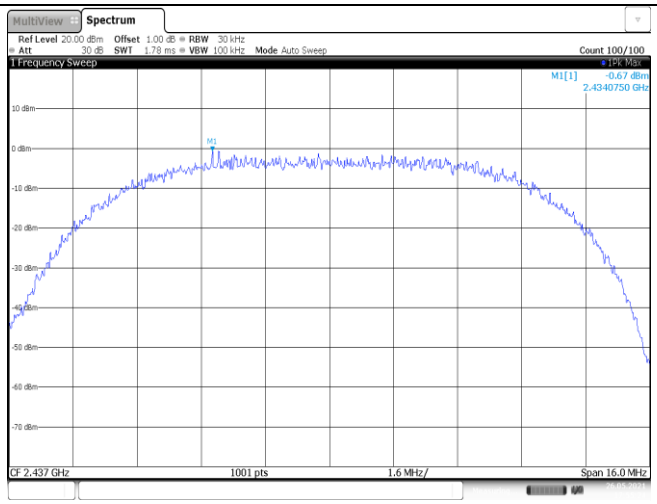
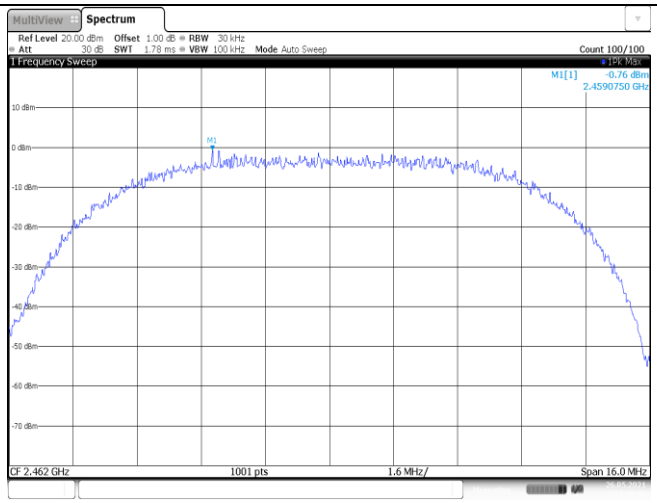
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

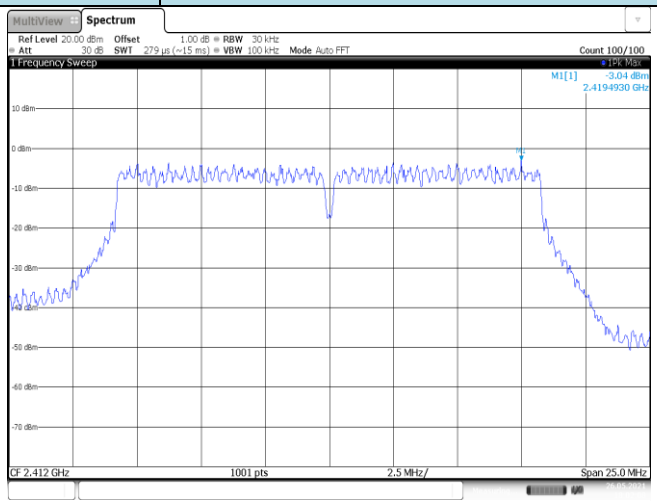
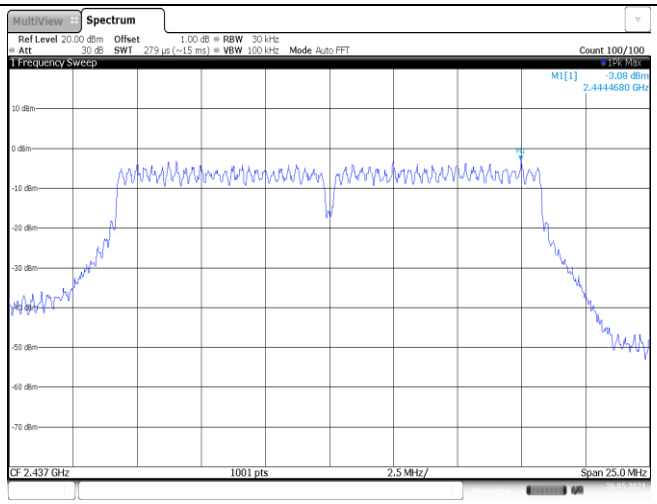
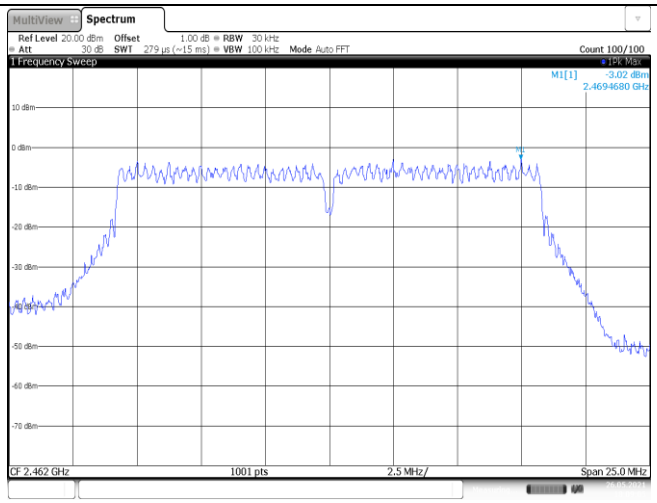
Appendix A：Conducted Peak Output Power

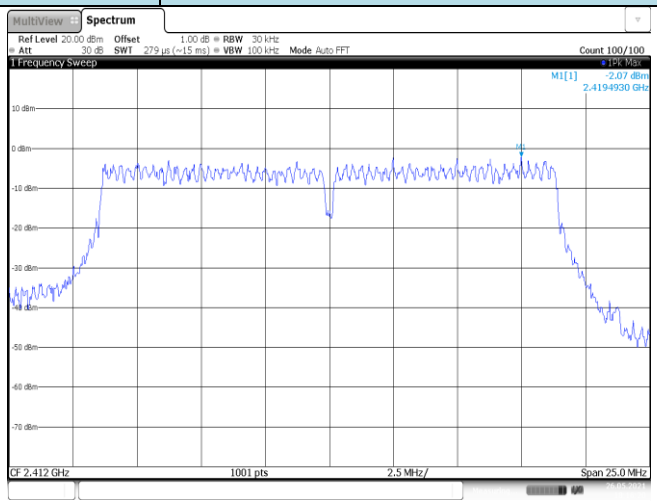
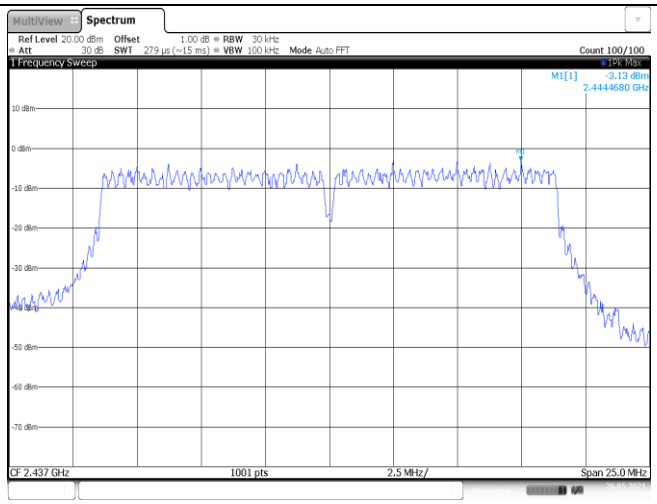
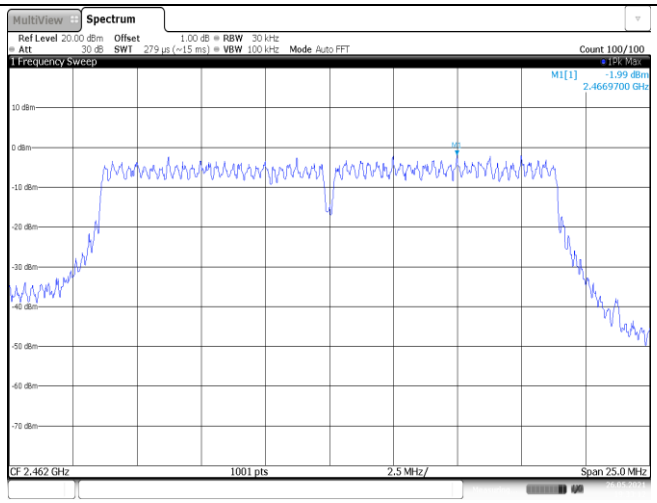
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	20.01	18.60	≤ 30.00	Pass
	06	19.12	17.65		
	11	18.36	16.89		
802.11g	01	22.66	20.65	≤ 30.00	Pass
	06	21.76	19.76		
	11	21.17	19.09		
802.11n (HT20)	01	22.68	20.75	≤ 30.00	Pass
	06	21.25	19.58		
	11	22.17	20.36		

Appendix B：Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	0.08	≤8.00	Pass
	06	-0.67		
	11	-0.76		
802.11g	01	-3.04	≤8.00	Pass
	06	-3.08		
	11	-3.02		
802.11n(HT20)	01	-2.07	≤8.00	Pass
	06	-3.13		
	11	-1.99		

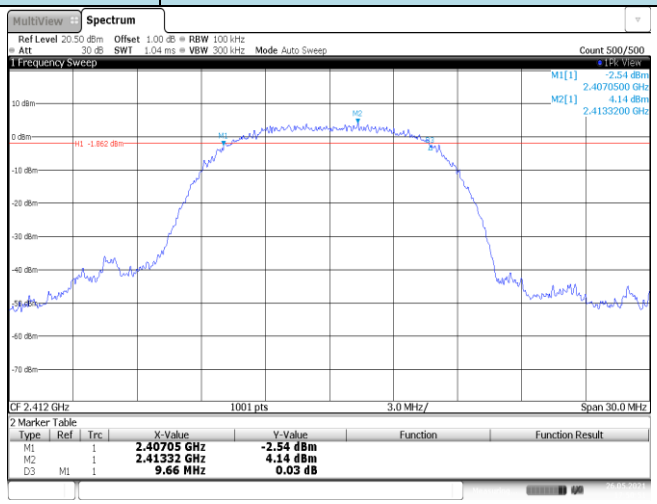
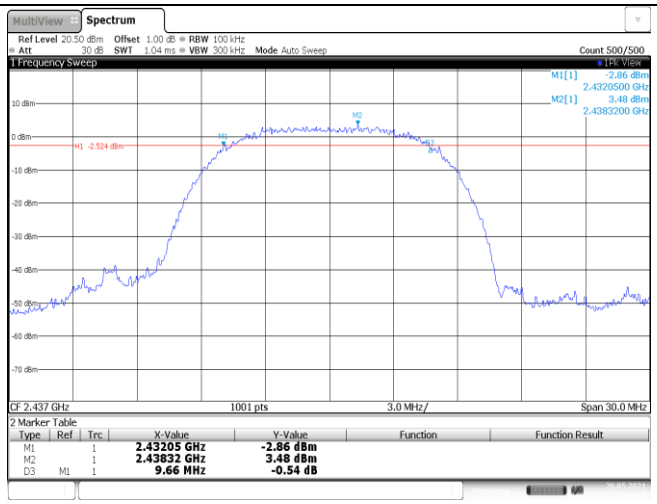
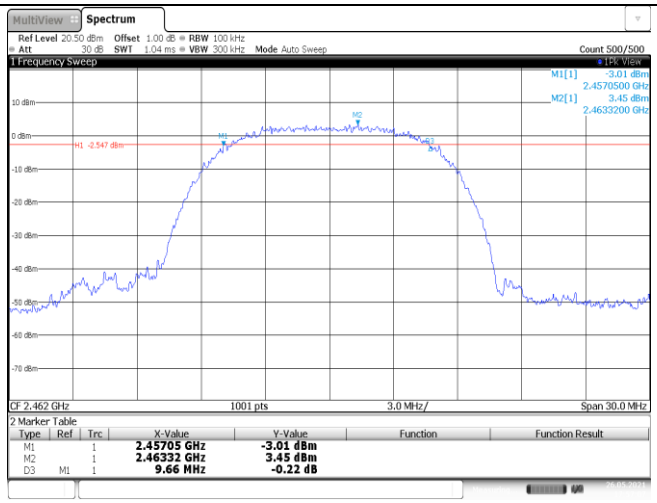
Type:	802.11 b
CH01	
CH06	
CH11	

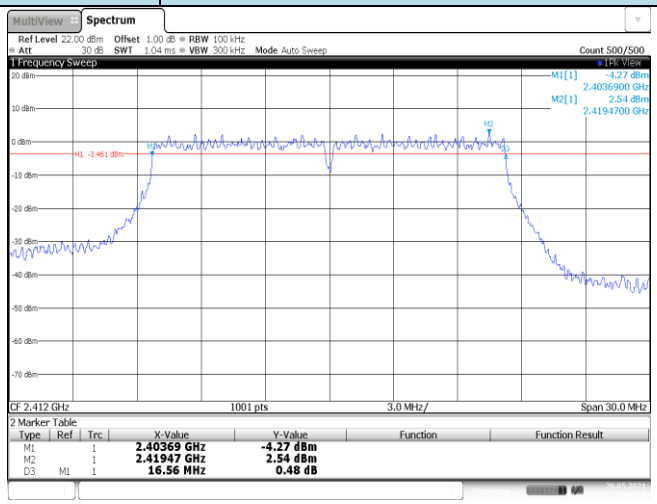
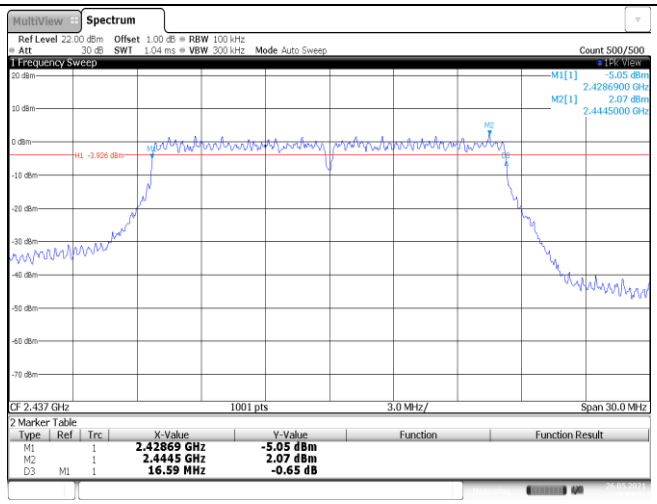
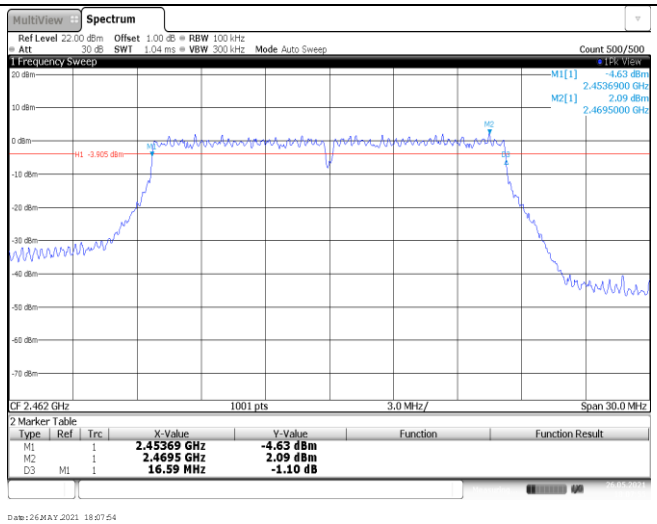
Type:	802.11 g
CH01	
CH06	
CH11	

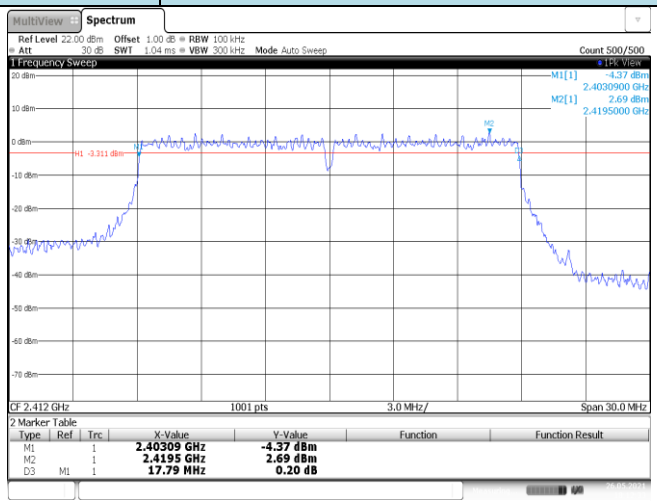
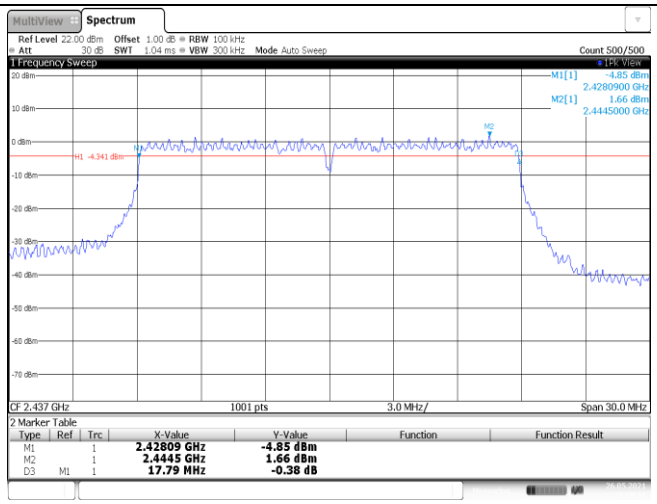
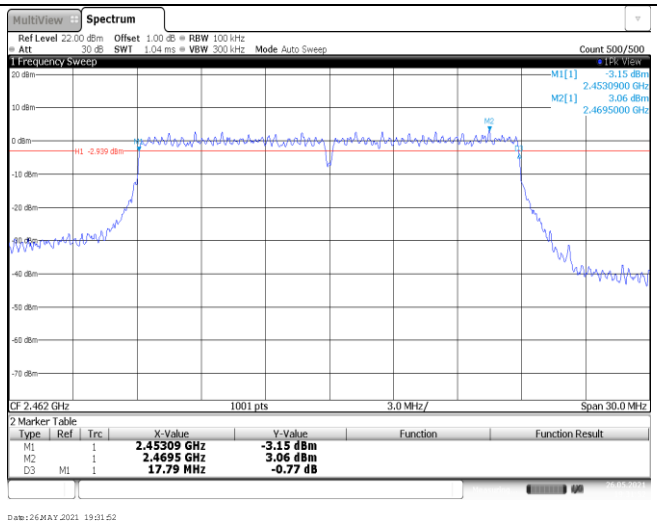
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

Appendix C：6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.66	≥0.5	Pass
	06	9.66		
	11	9.66		
802.11g	01	16.56	≥0.5	Pass
	06	16.59		
	11	16.59		
802.11n(HT20)	01	17.79	≥0.5	Pass
	06	17.79		
	11	17.79		

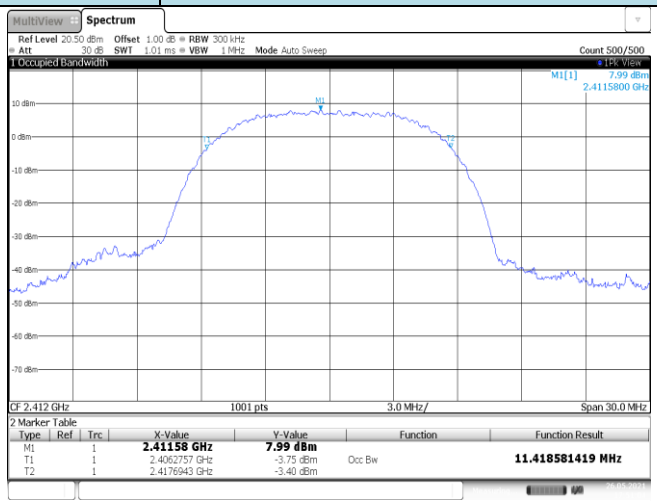
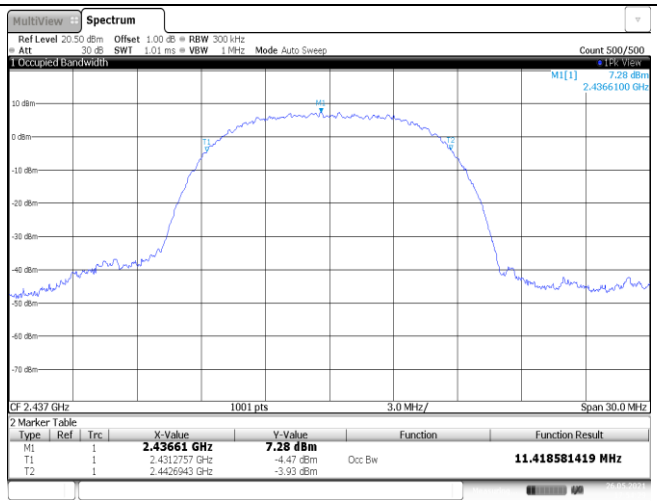
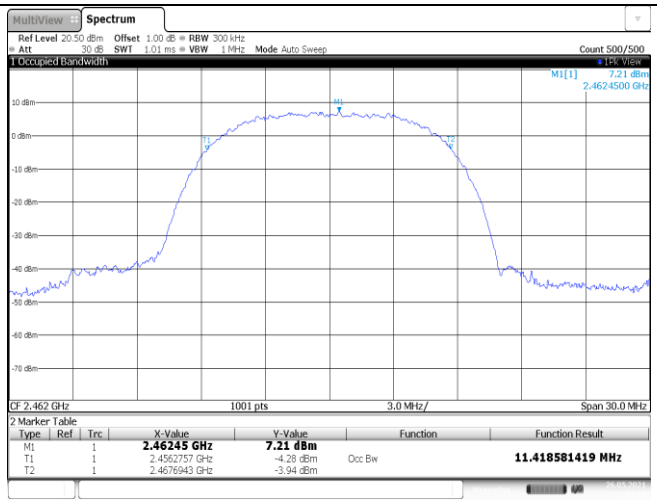
Type:	802.11 b
CH01	
CH06	
CH11	

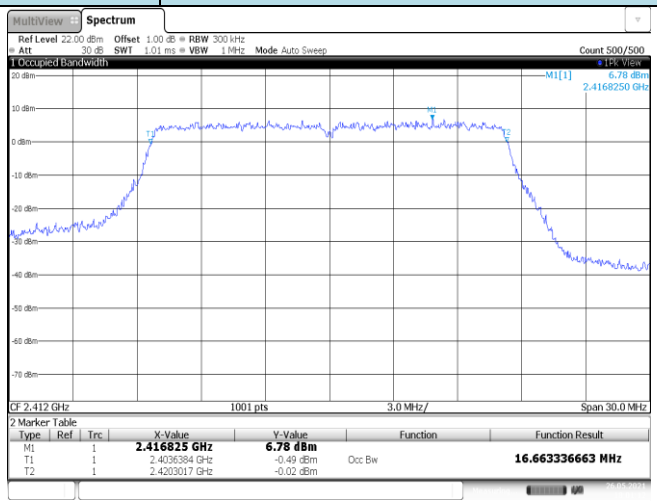
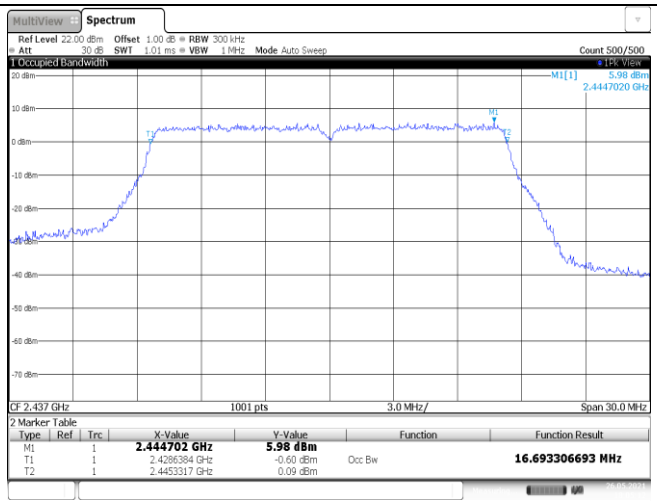
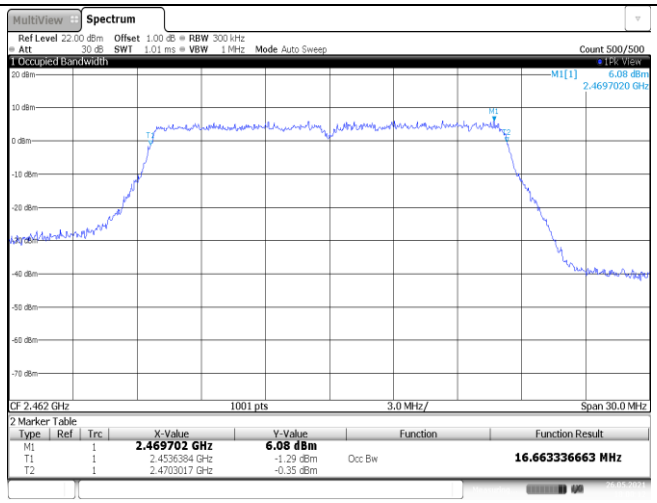
Type:	802.11 g
CH01	
CH06	
CH11	

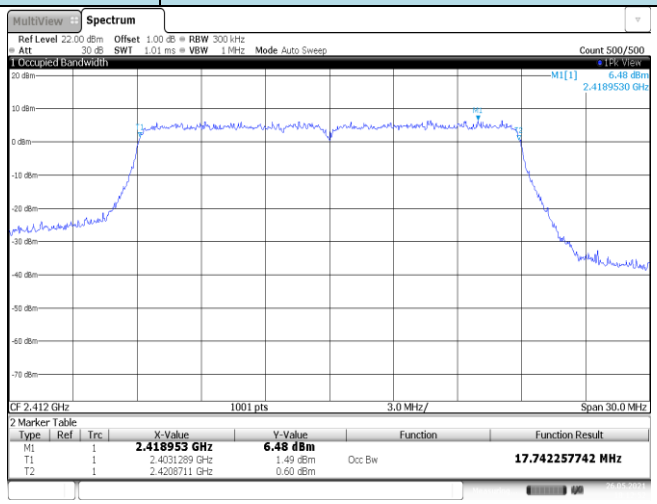
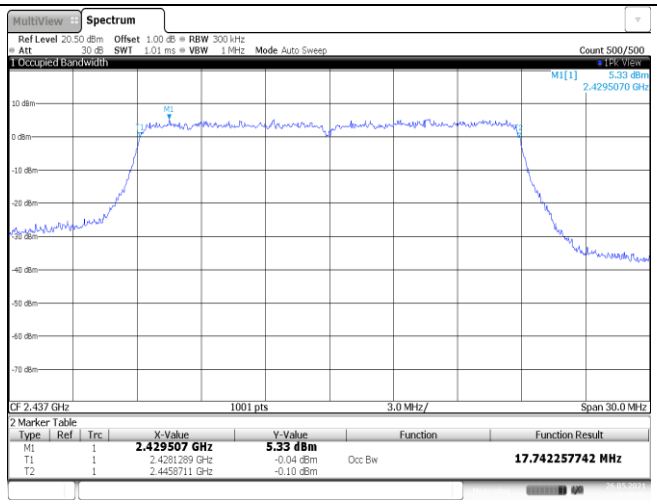
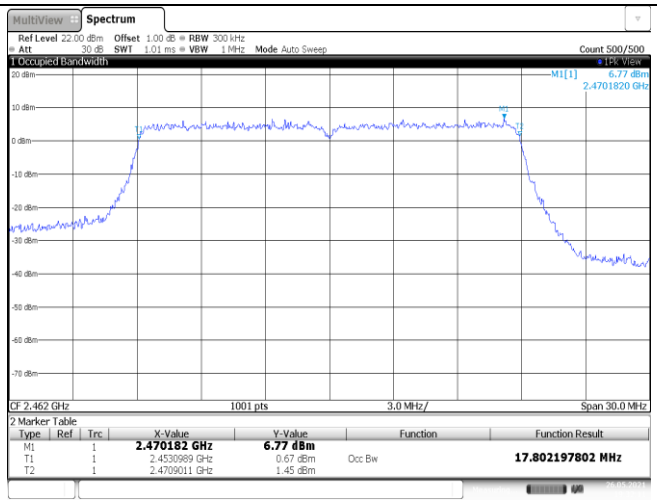
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

Appendix D：99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	11.42	-	Pass
	06	11.42		
	11	11.42		
802.11g	01	16.66	-	Pass
	06	16.69		
	11	16.66		
802.11n(HT20)	01	17.74	-	Pass
	06	17.74		
	11	17.80		

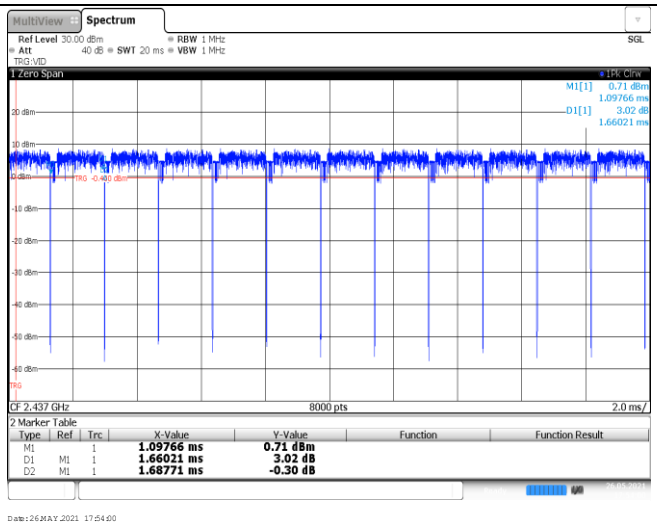
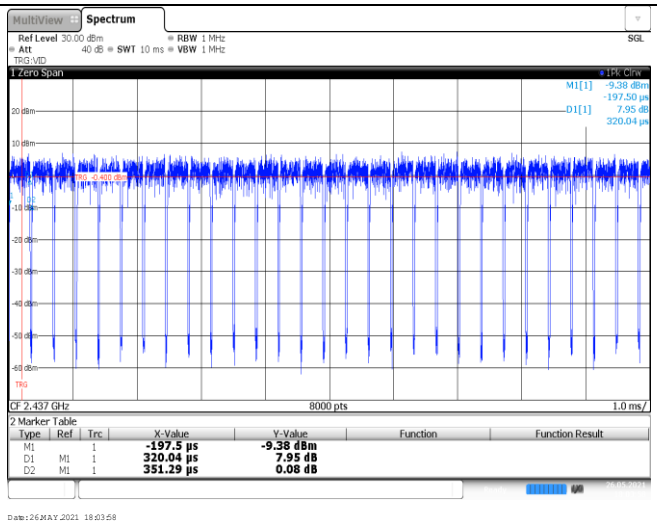
Type:	802.11 b
CH01	
CH06	
CH11	

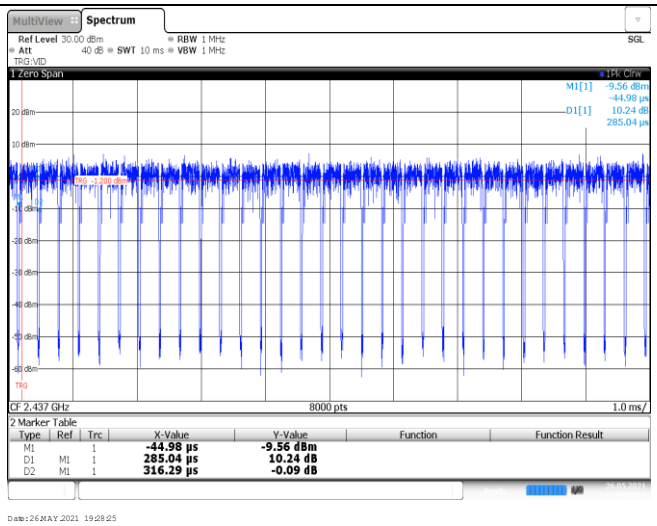
Type:	802.11 g
CH01	
CH06	
CH11	

Type:	802.11n(HT20)
CH01	
CH06	
CH11	

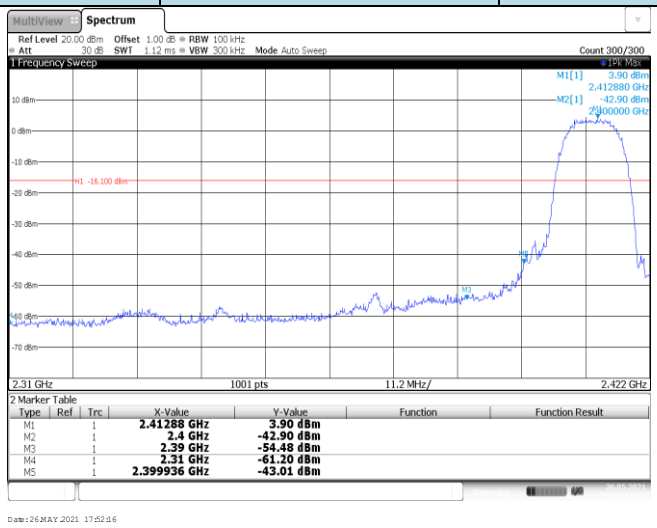
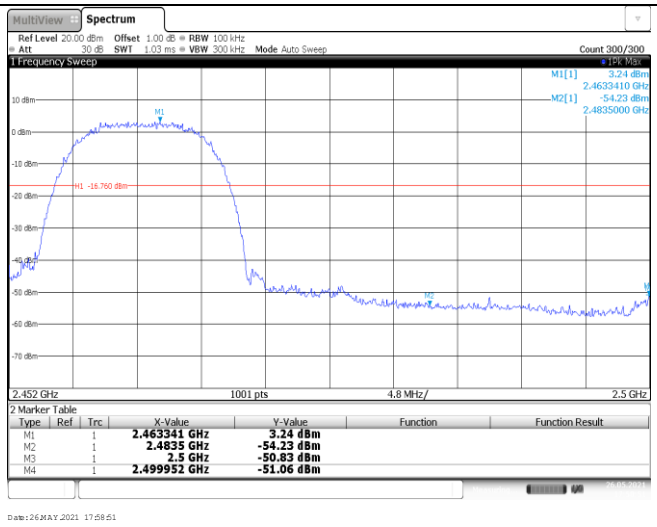
Appendix E：Duty Cycle

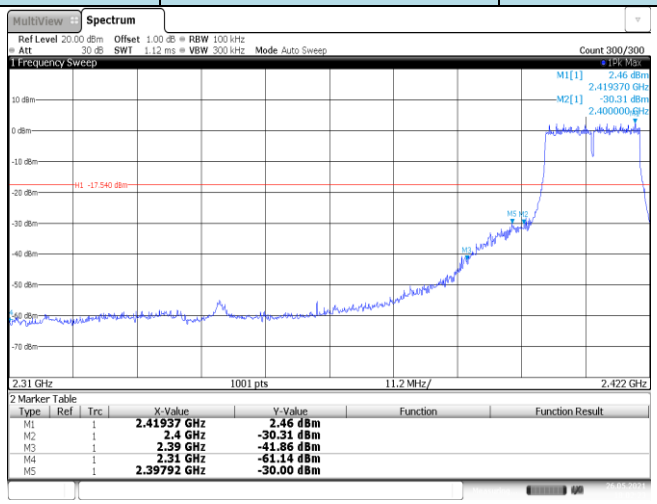
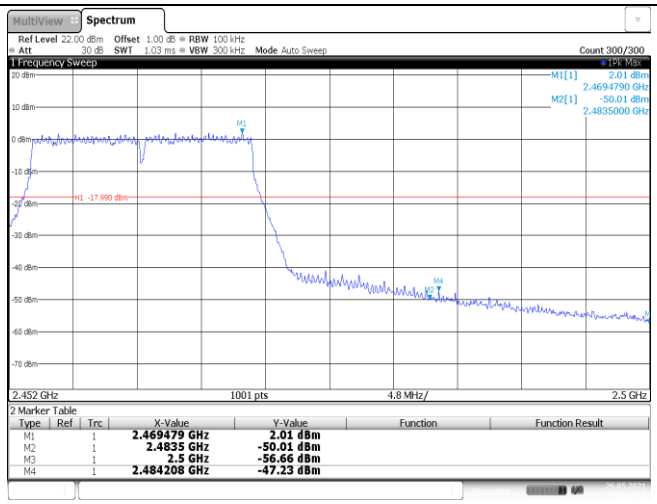
Modulation Type	Test Frequency （MHz）	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
11b	2437	1.66	1.69	98.2%	0.6
11g	2437	0.32	0.35	91.4%	3.1
11n20	2437	0.29	0.32	90.6%	3.4

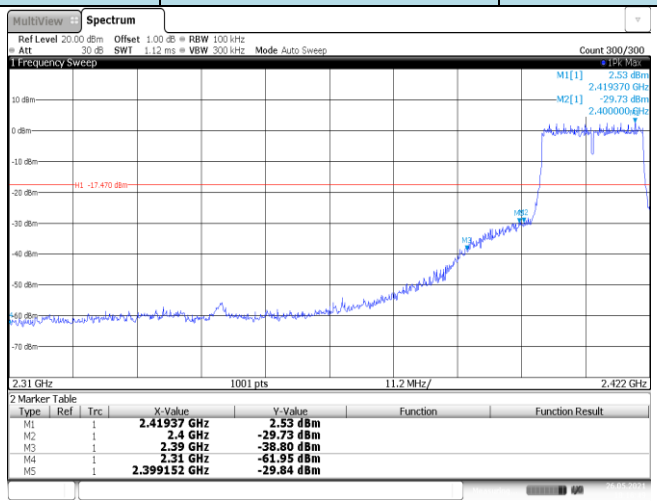
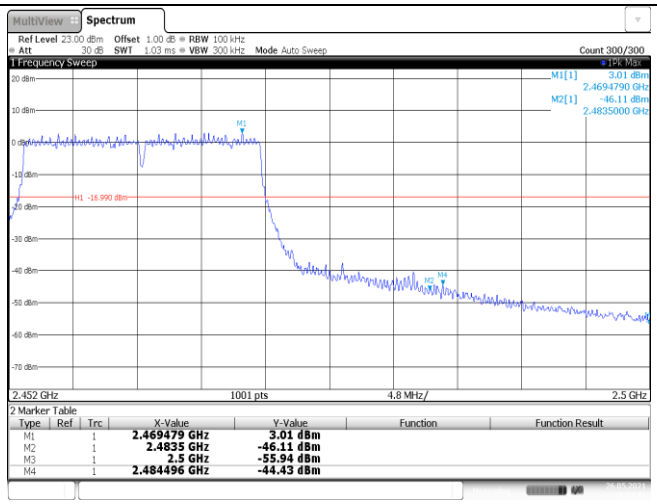
11b	
11g	

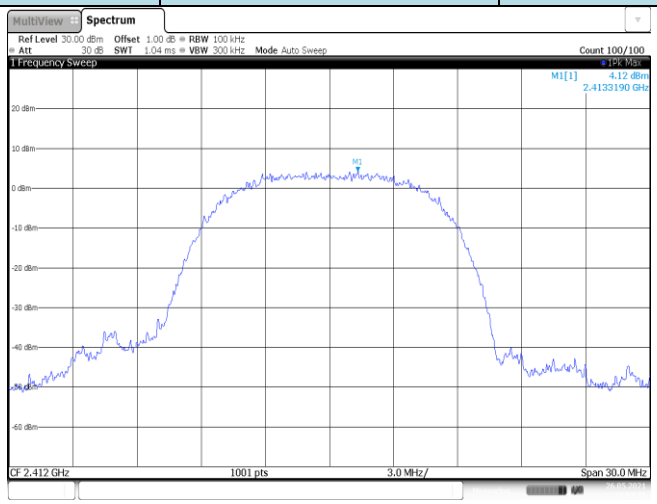
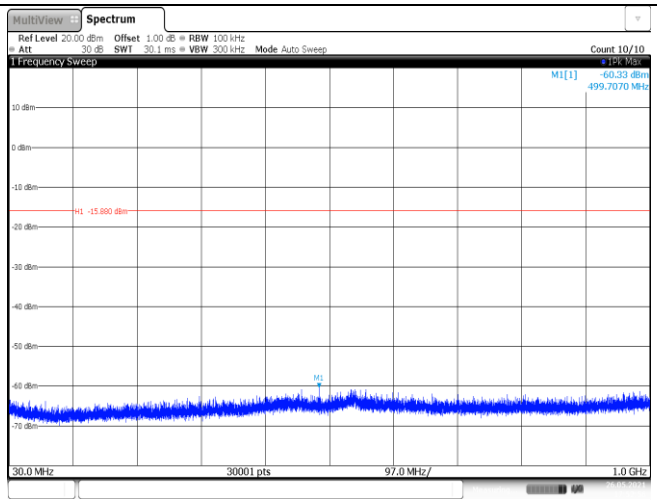
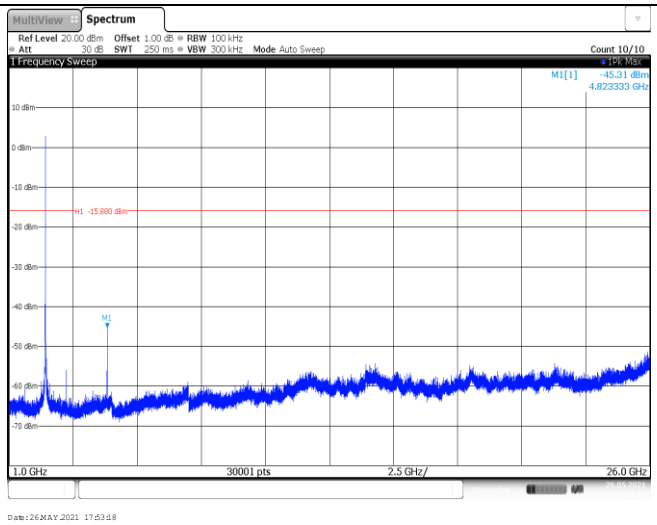
11n20	 MultiView Spectrum Ref Level 30.00 dBm RBW 1 MHz Att 40 dB SWT 10 ms VBW 1 MHz TRG:VID 1 Zero Span 1Pk Clrw M1[1] -9.56 dBm -44.98 µs D1[1] 10.24 dB 285.04 µs CF 2.437 GHz 8000 pts 1.0 ms/ 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 -44.98 µs -9.56 dBm D1 M1 1 285.04 µs 10.24 dB D2 M1 1 316.29 µs -0.09 dB Date: 26.MAY.2021 19:28:25

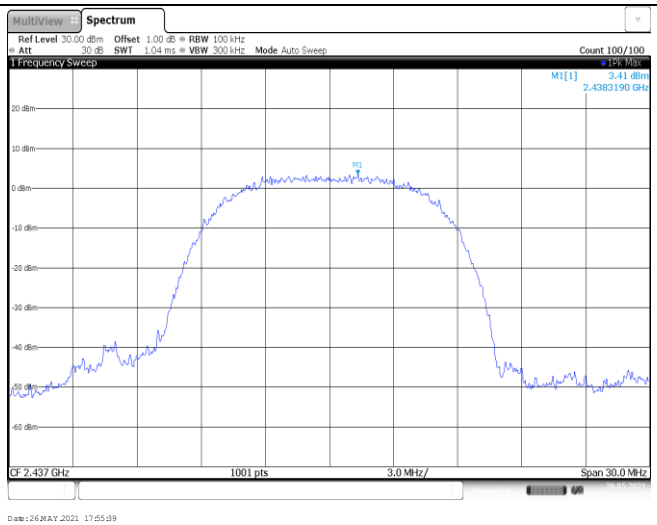
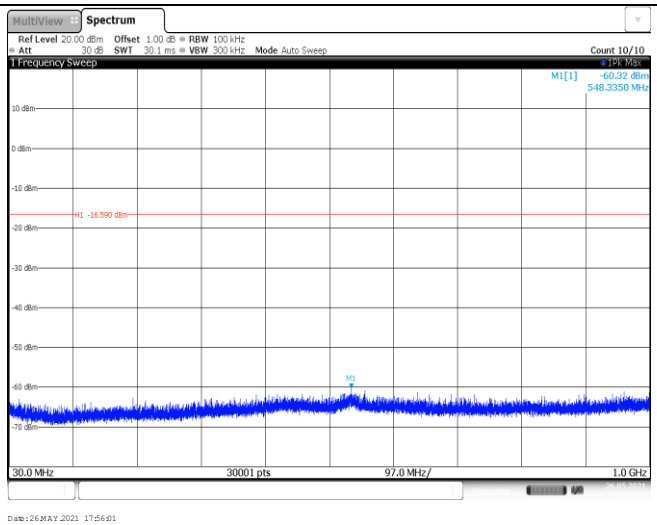
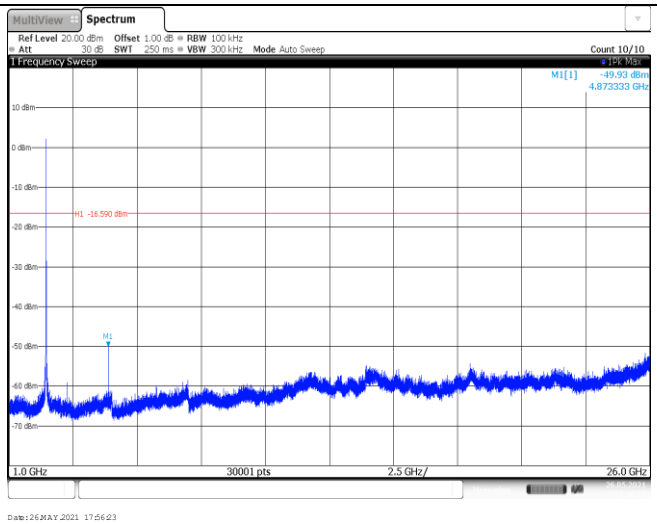
Appendix F：Band edge and Spurious Emissions (conducted)

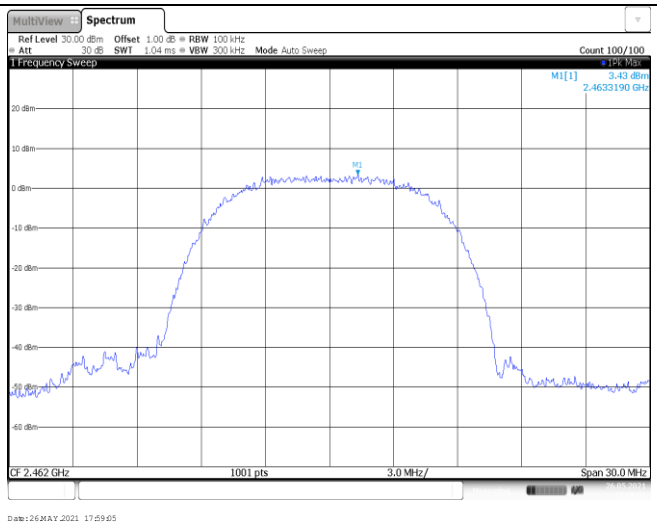
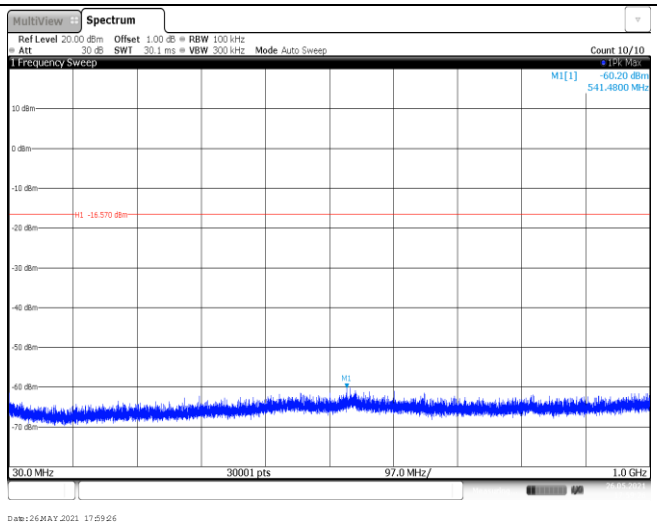
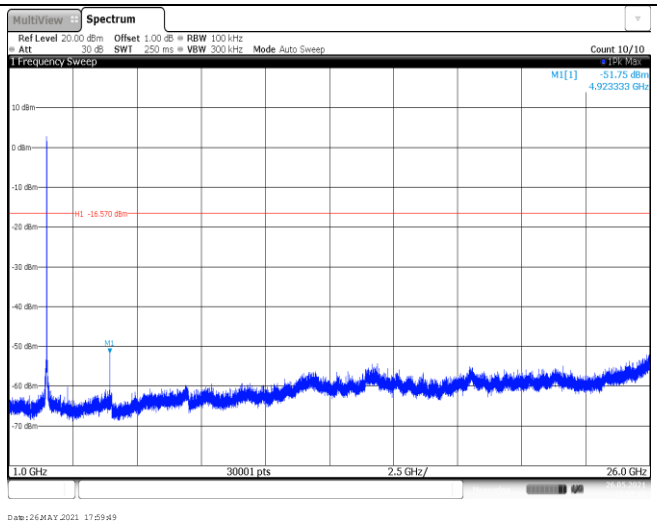
Test Item:	Bandedge	Type:	802.11 b
CH01			
CH11			

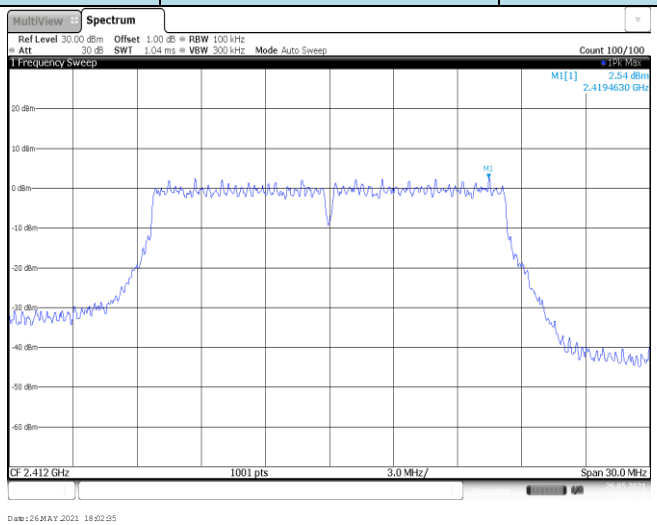
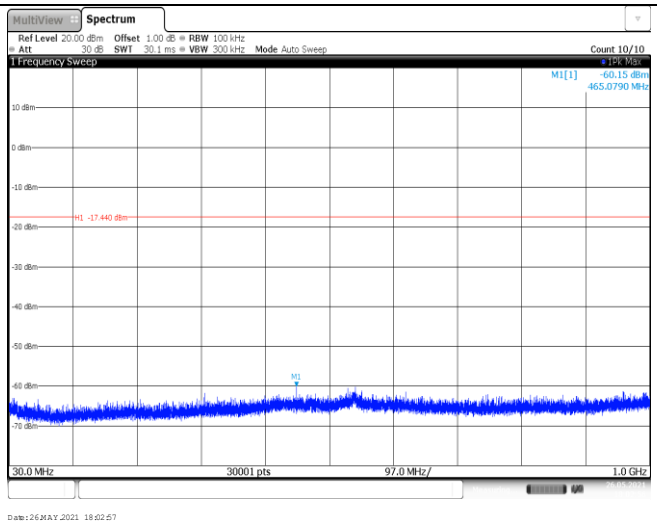
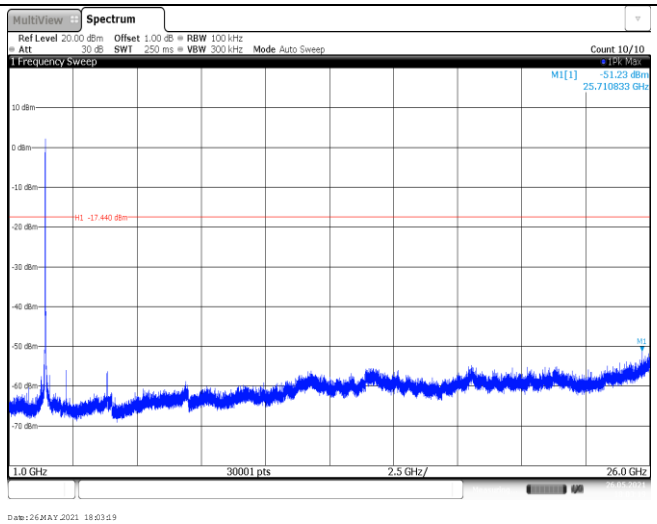
Test Item:	Bandedge	Type:	802.11 g
CH01			
CH11			

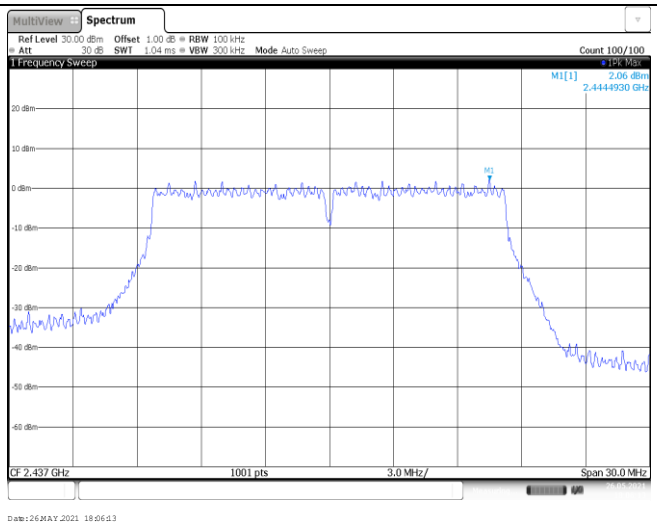
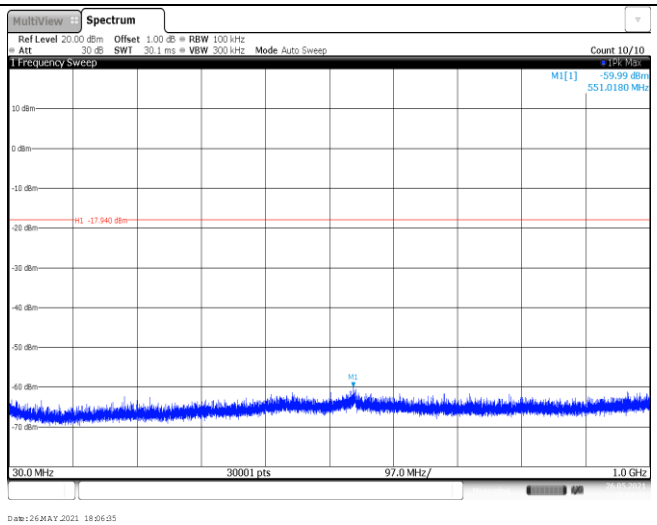
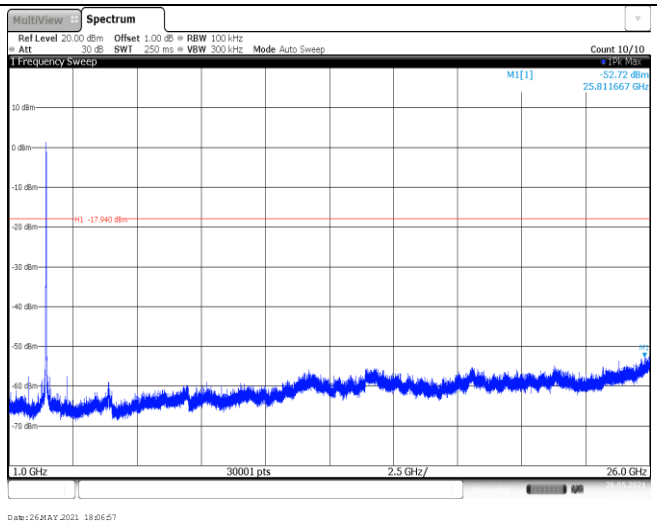
Test Item:	Bandedge	Type:	802.11 n(HT20)
CH01			
CH11			

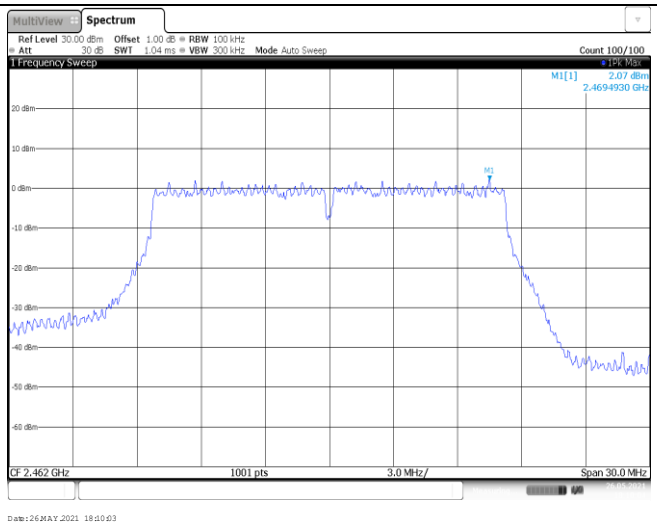
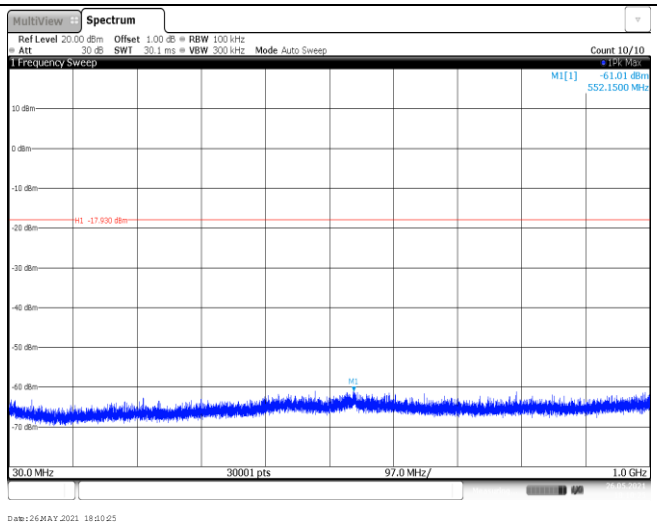
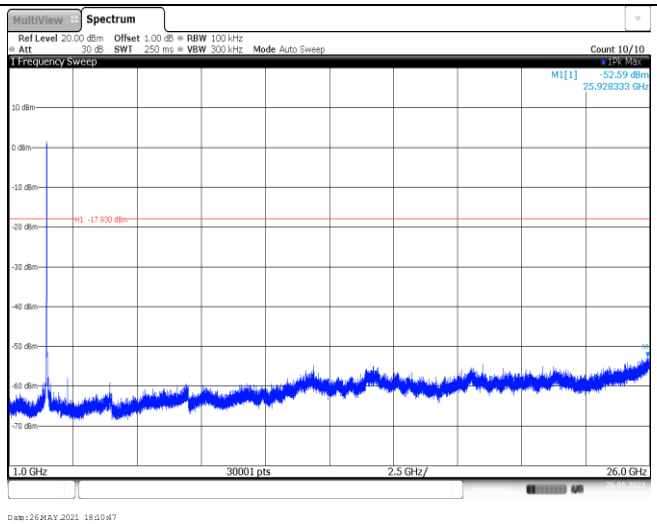
Test Item:	SE	Type:	802.11 b
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

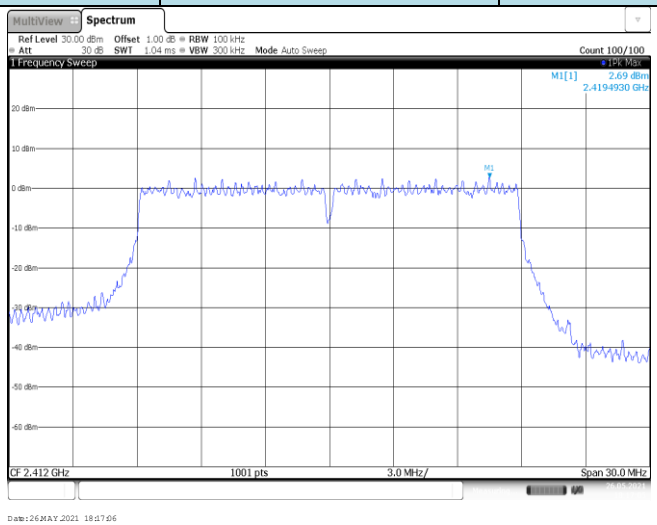
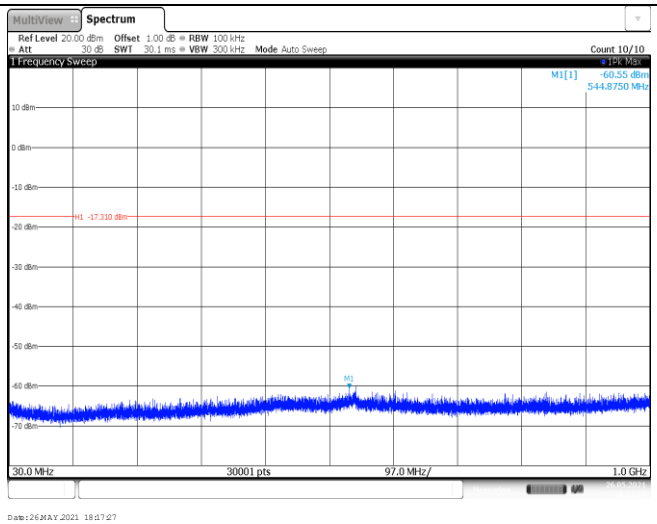
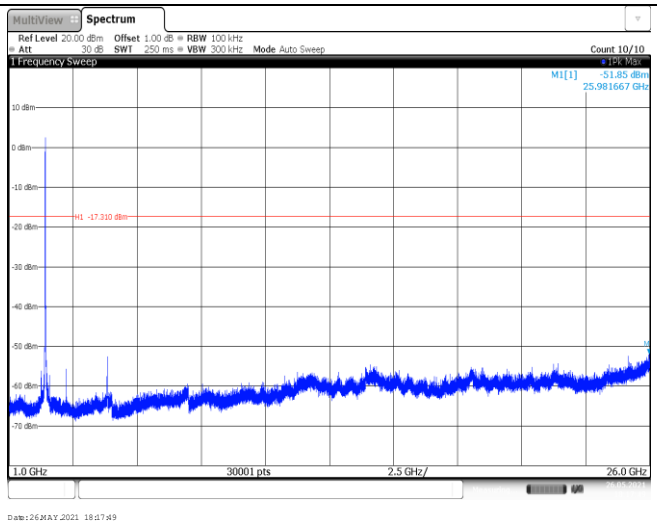
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

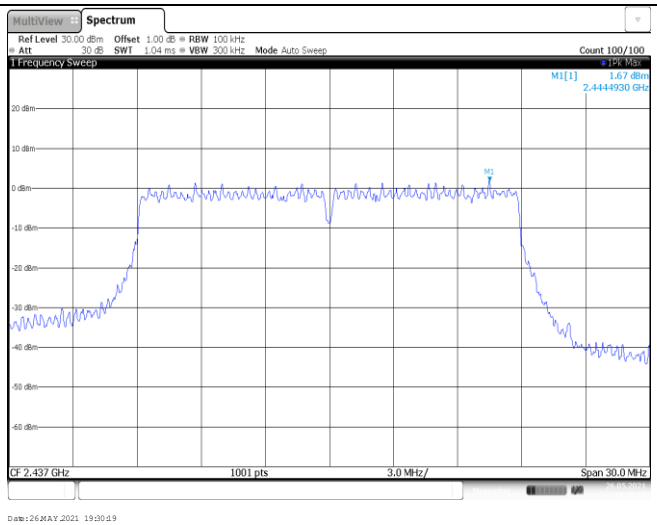
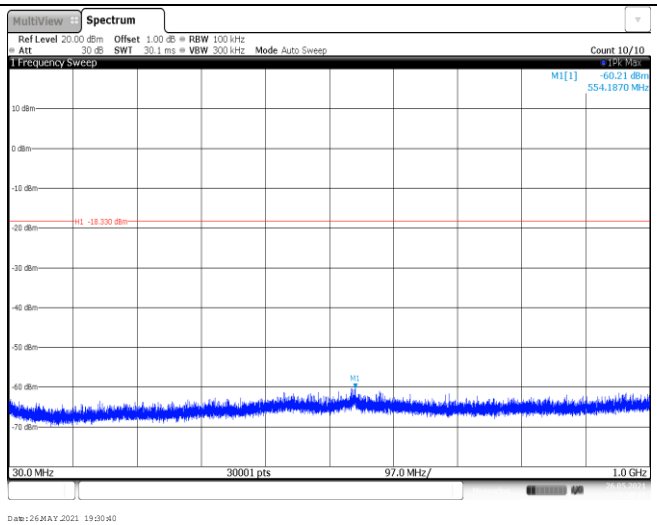
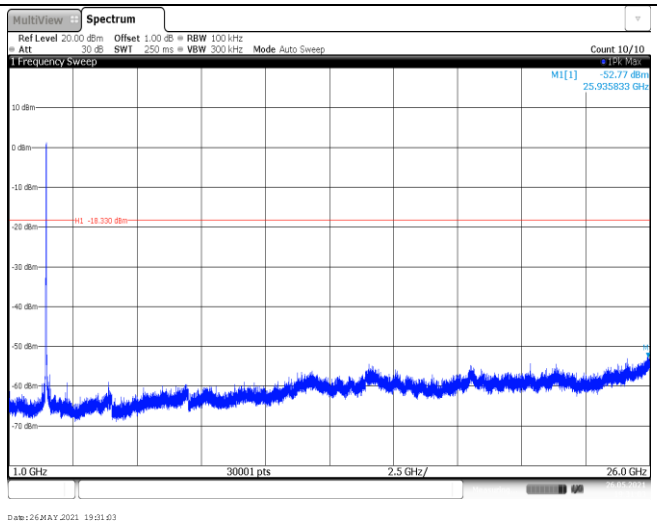
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

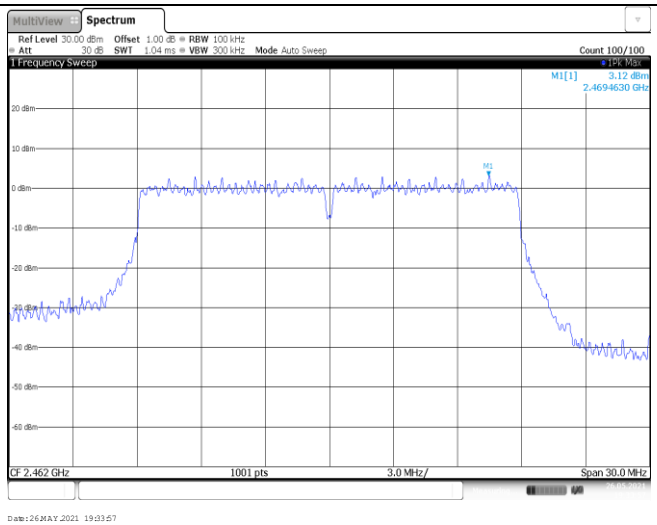
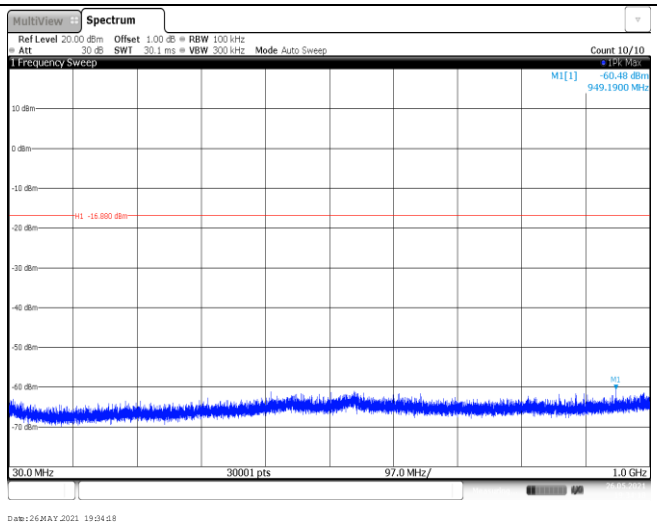
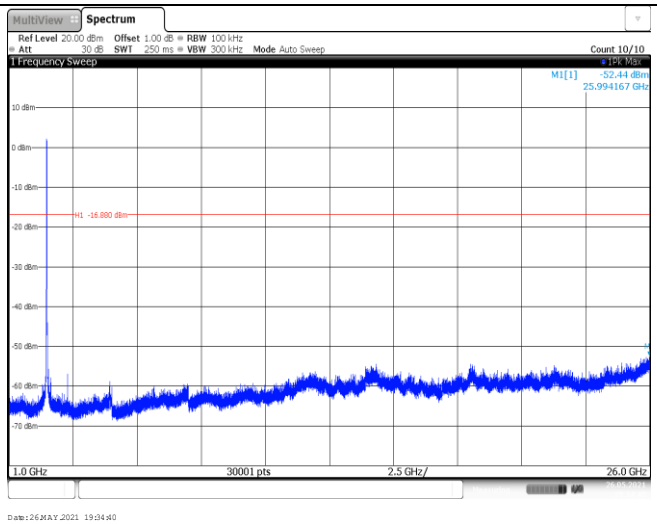
Test Item:	SE	Type:	802.11 g
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

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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