APPENDIX REPORT

Project No.	SHT2006062904EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT20060629002	Model No.	T350
Start test date	2020/06/29	Finish date	2020/07/03
Temperature	25°C	Humidity	50%
Test Engineer	Jess He	Auditor	William . wang

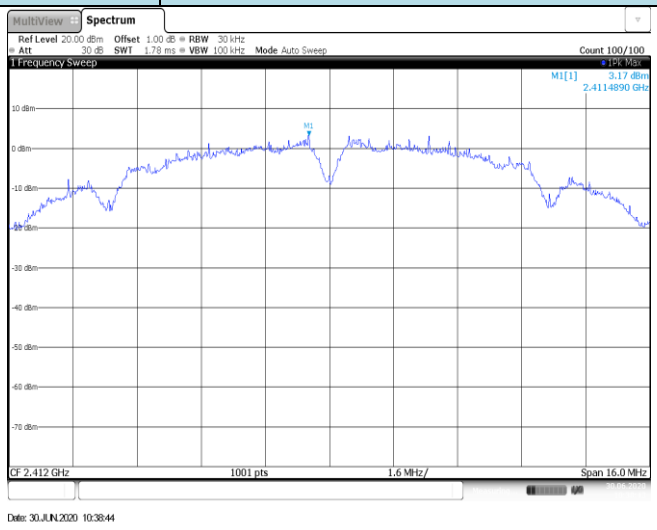
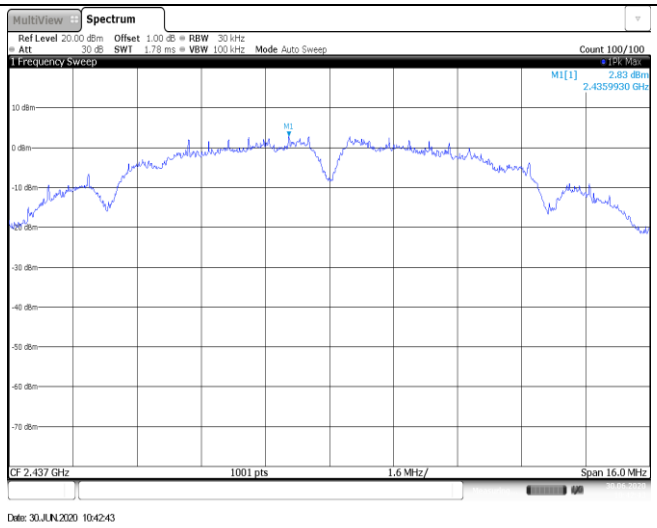
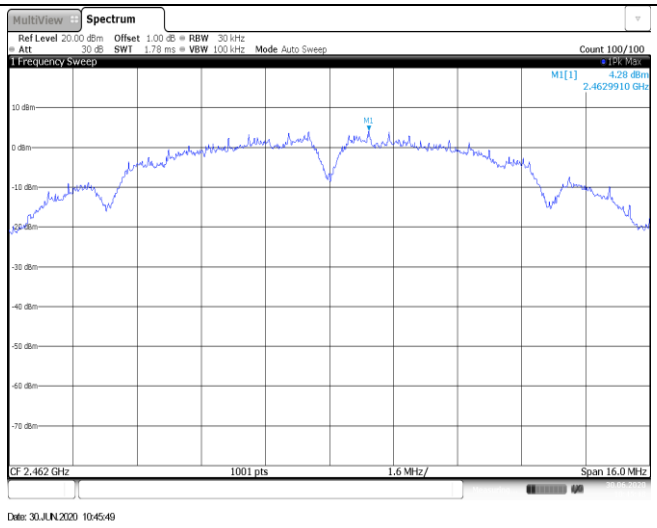
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
E	Band edge and Spurious Emissions (conducted)	PASS

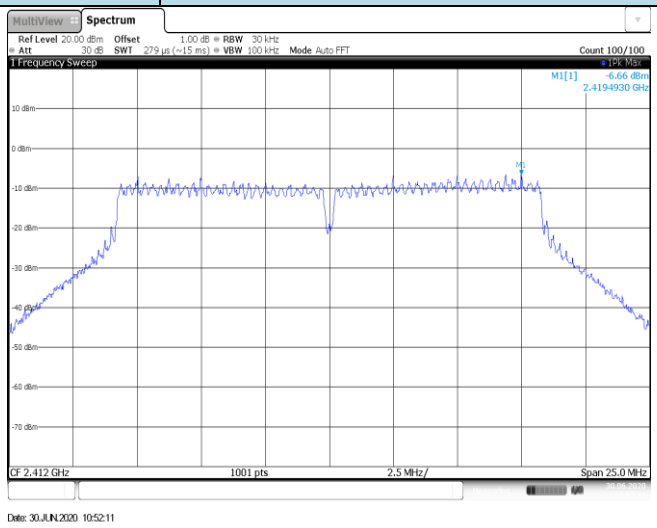
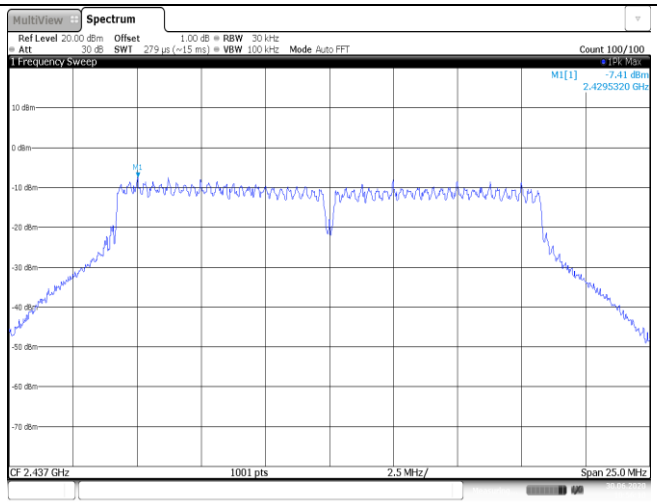
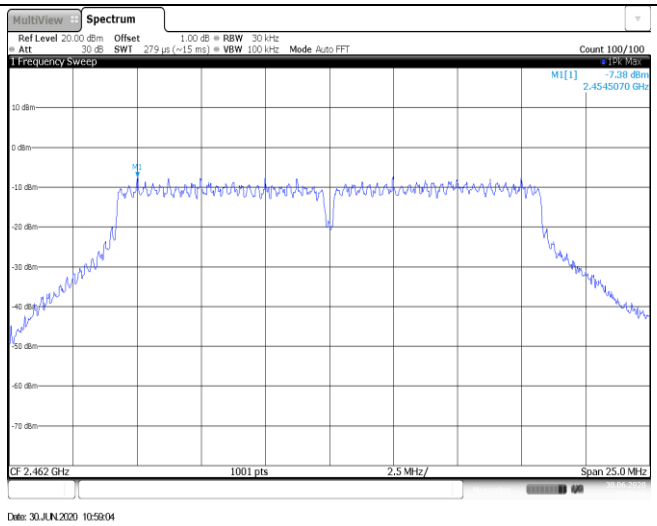
Appendix A: Conducted Peak Output Power

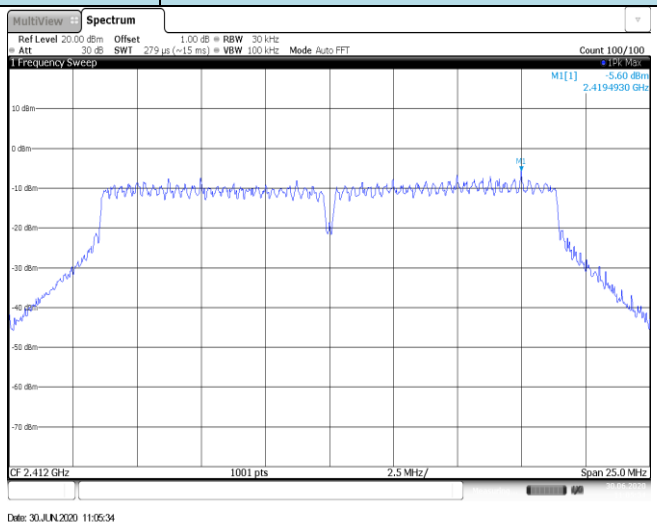
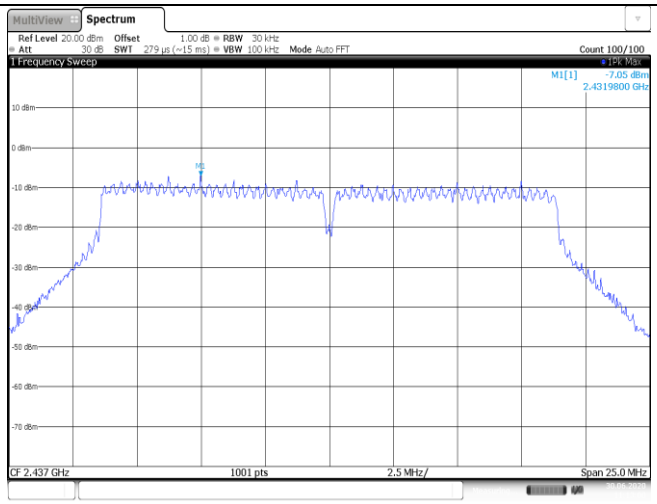
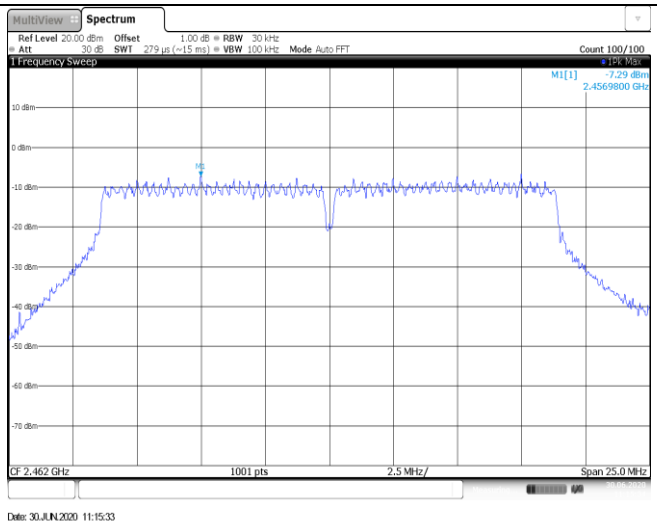
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	18.22	15.68	≤ 30.00	Pass
	06	15.73	15.71		
	11	18.69	16.22		
802.11g	01	18.23	15.58	≤ 30.00	Pass
	06	17.24	14.85		
	11	17.91	15.40		
802.11n (HT20)	01	18.19	15.91	≤ 30.00	Pass
	06	17.81	15.09		
	11	18.13	15.64		
802.11n(HT40)	03	15.27	15.09	≤ 30.00	Pass
	06	15.10	15.01		
	09	18.34	15.69		

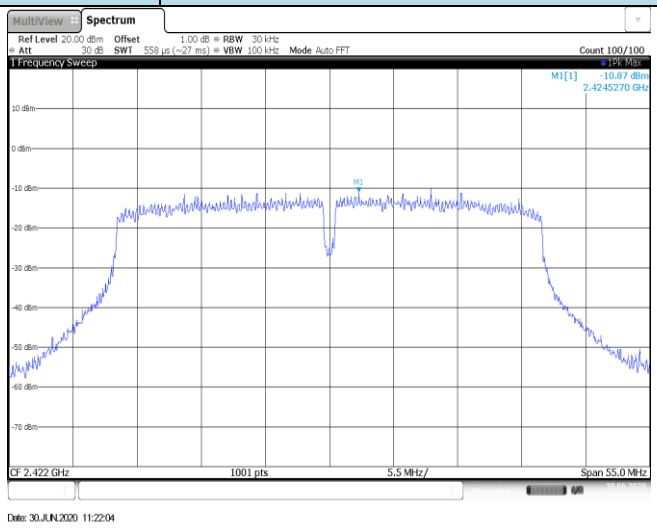
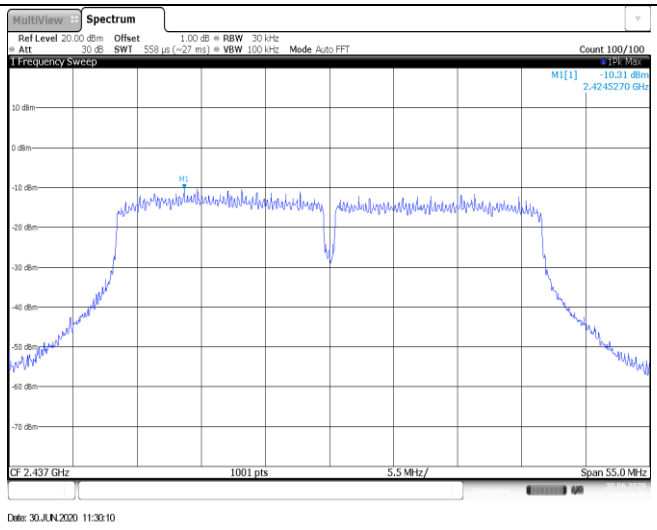
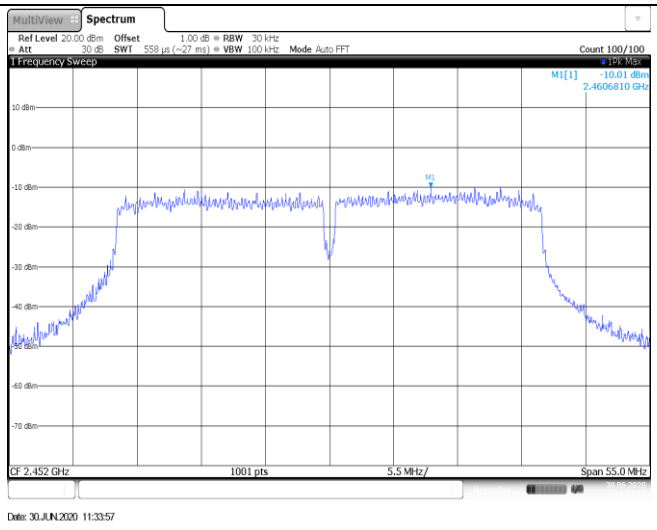
Appendix B：Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	3.17	≤8.00	Pass
	06	2.83		
	11	4.28		
802.11g	01	-6.66	≤8.00	Pass
	06	-7.41		
	11	-7.38		
802.11n(HT20)	01	-5.60	≤8.00	Pass
	06	-7.05		
	11	-7.29		
802.11n(HT40)	03	-10.87	≤8.00	Pass
	06	-10.31		
	09	-10.01		

Type:	802.11 b
CH01	
CH06	
CH11	

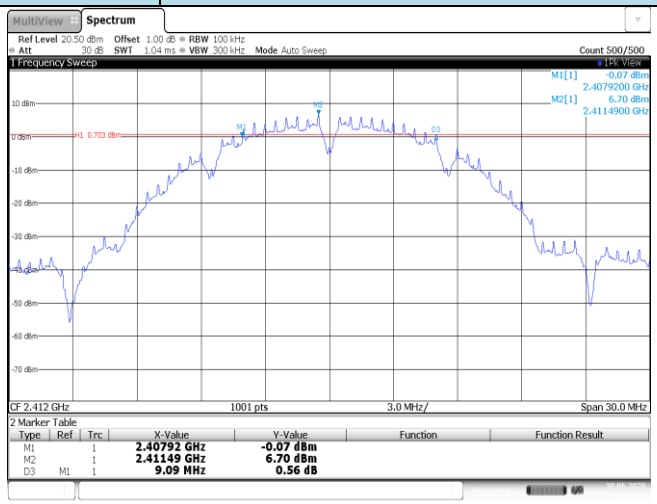
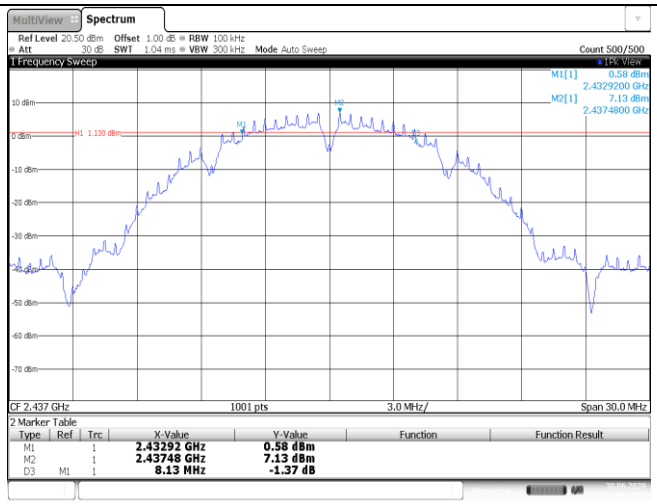
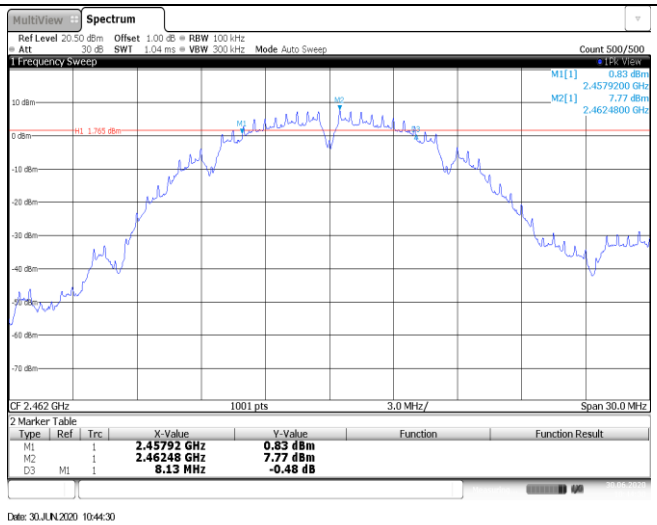
Type:	802.11 g
CH01	
CH06	
CH11	

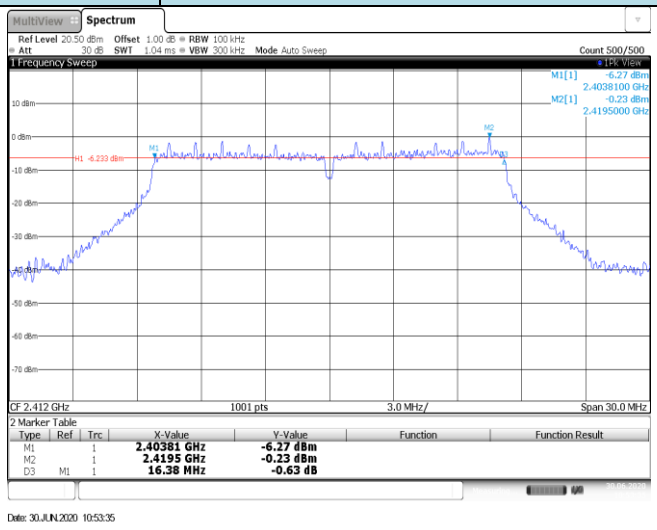
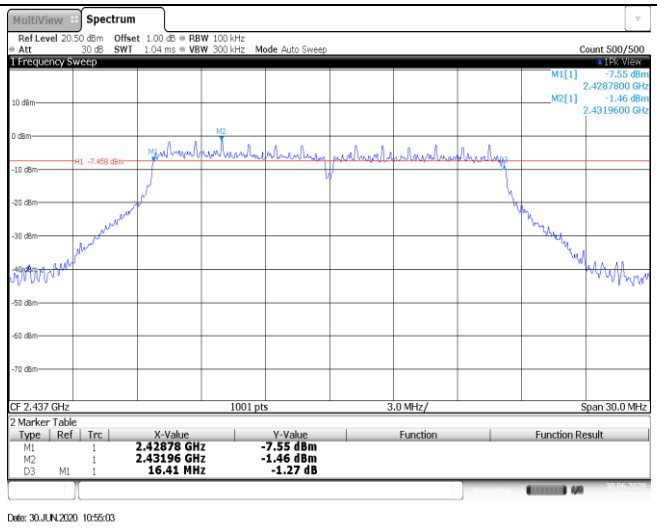
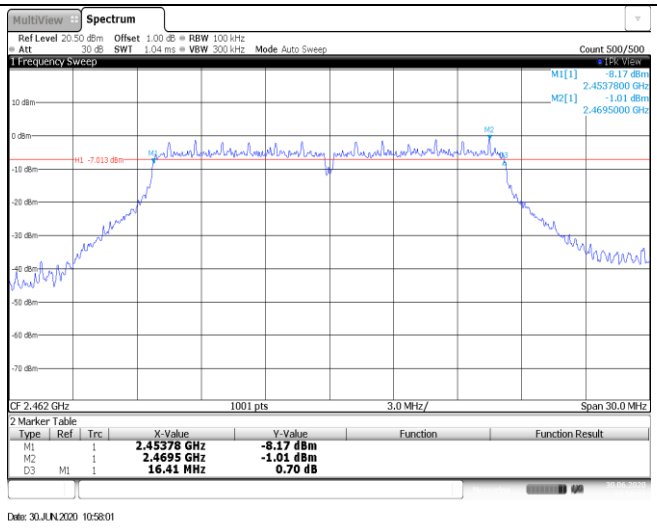
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

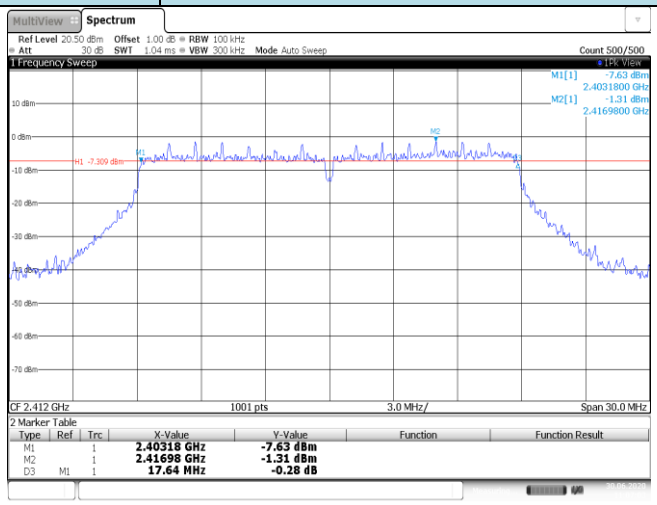
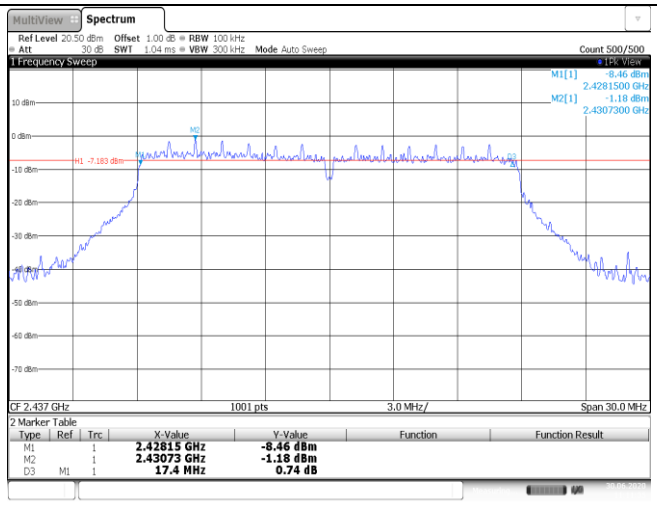
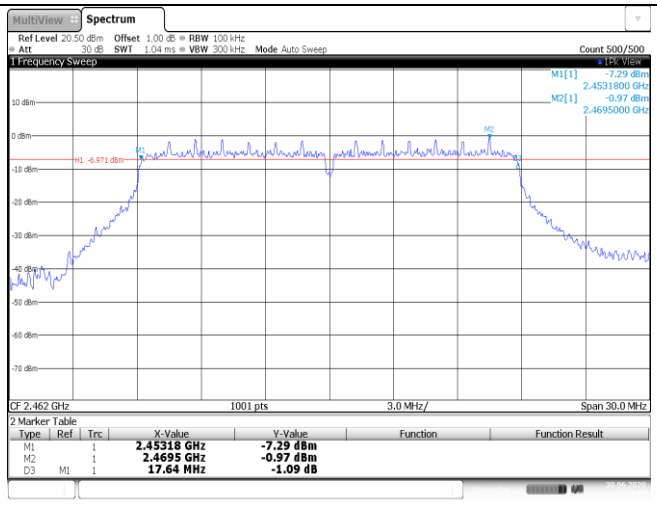
Type:	802.11n(HT40)
CH03	
CH06	
CH09	

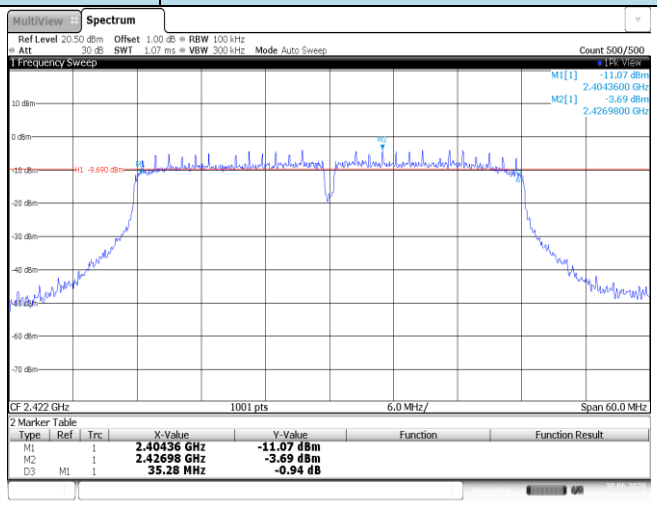
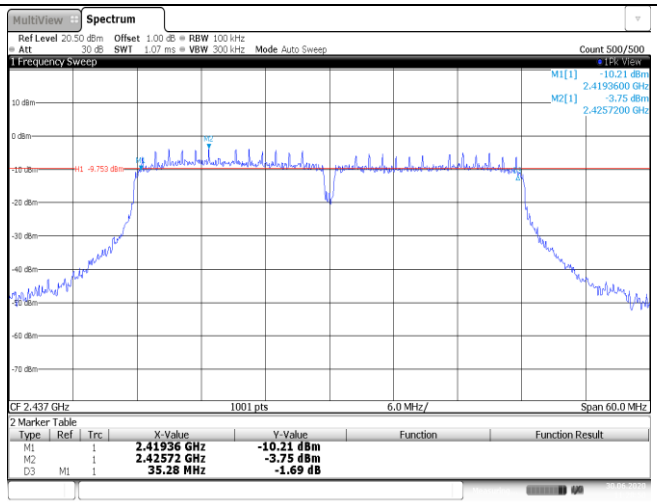
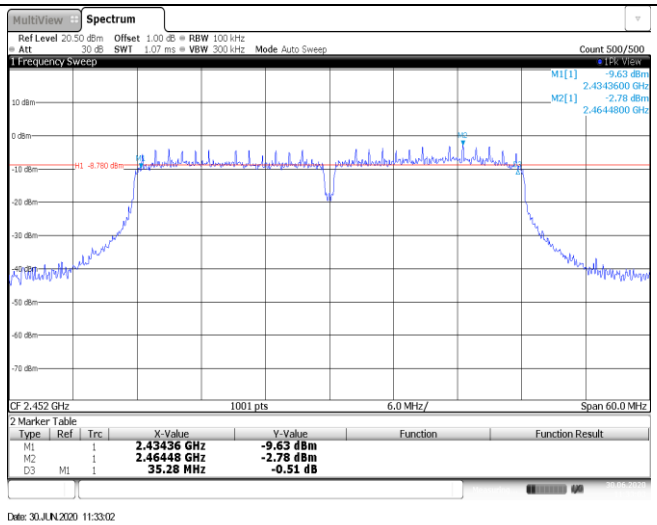
Appendix C：6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.09	≥0.5	Pass
	06	8.13		
	11	8.13		
802.11g	01	16.38	≥0.5	Pass
	06	16.41		
	11	16.41		
802.11n(HT20)	01	17.64	≥0.5	Pass
	06	17.40		
	11	17.64		
802.11n(HT40)	03	35.28	≥0.5	Pass
	06	35.28		
	09	35.28		

Type:	802.11 b
CH01	
CH06	
CH11	

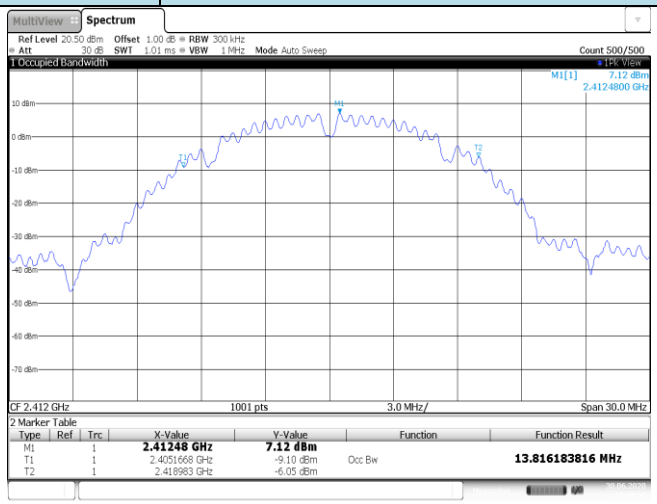
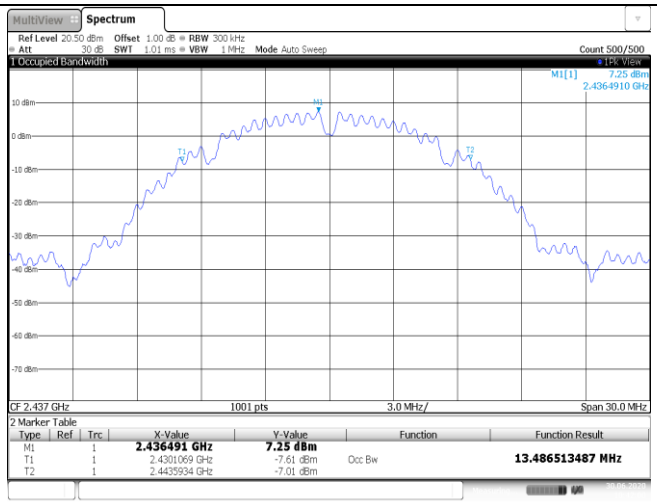
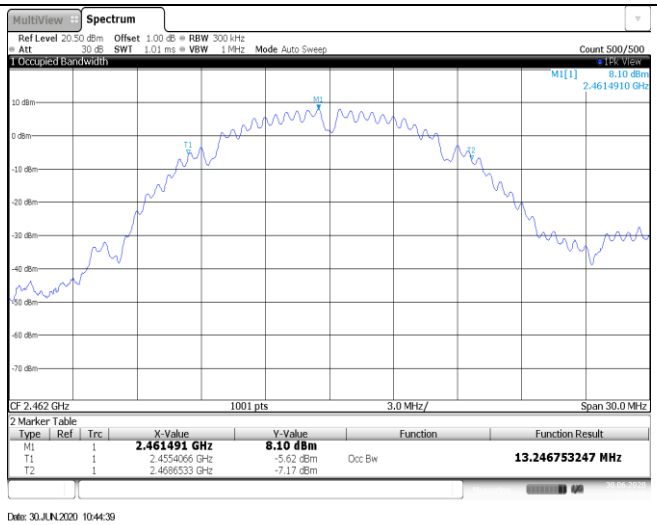
Type:	802.11 g
CH01	
CH06	
CH11	

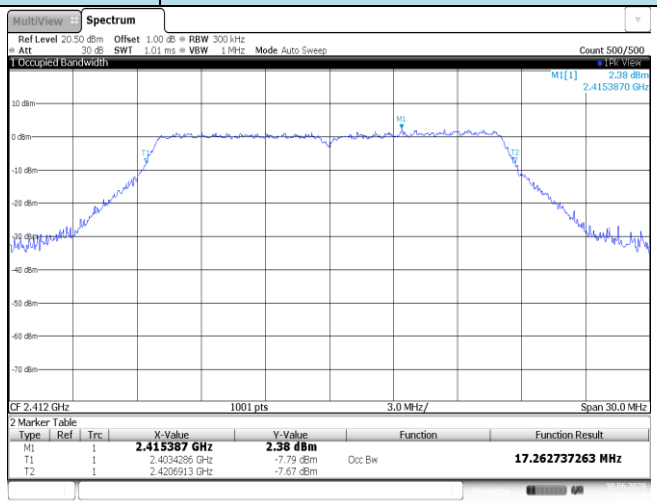
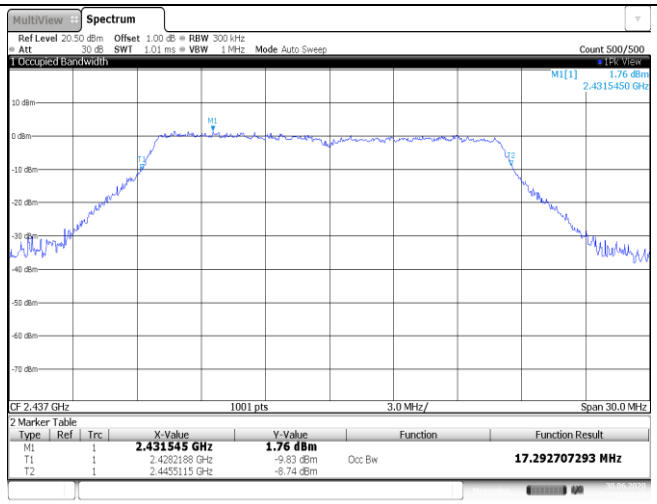
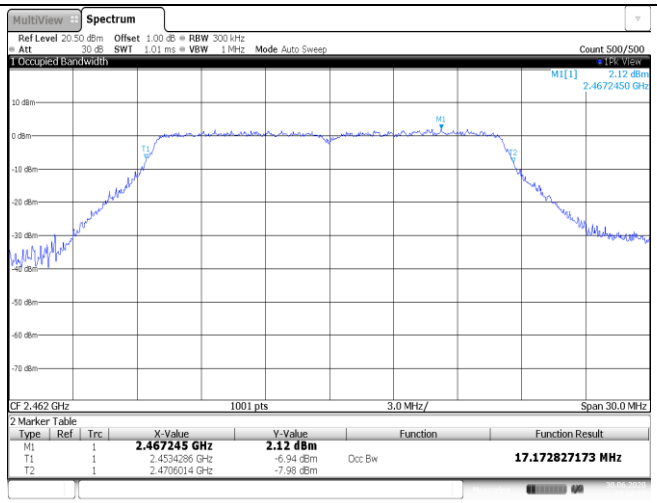
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

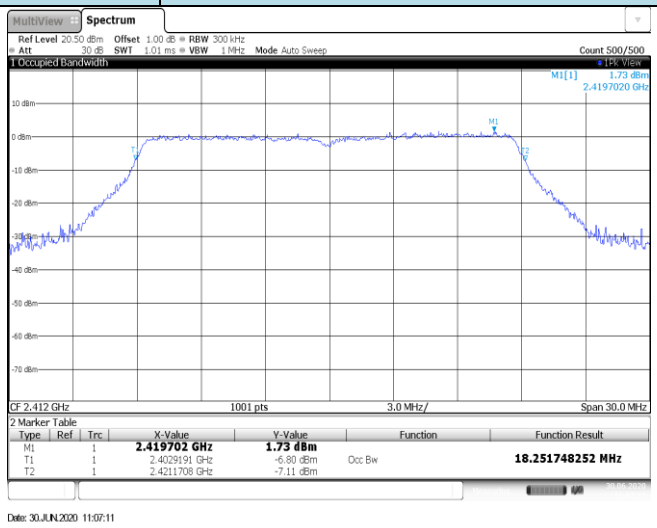
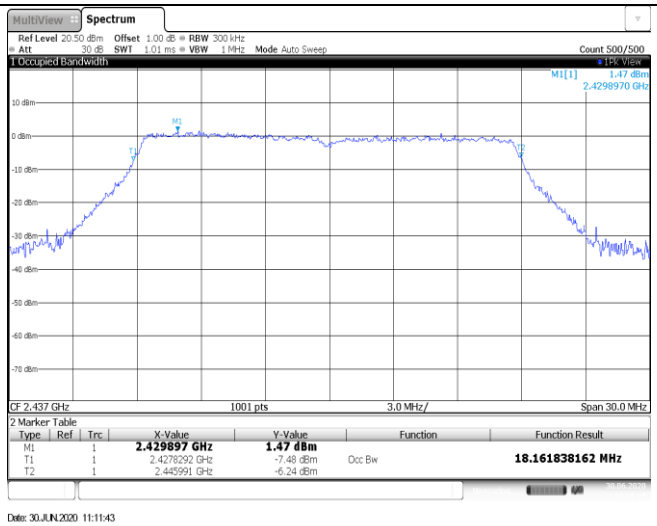
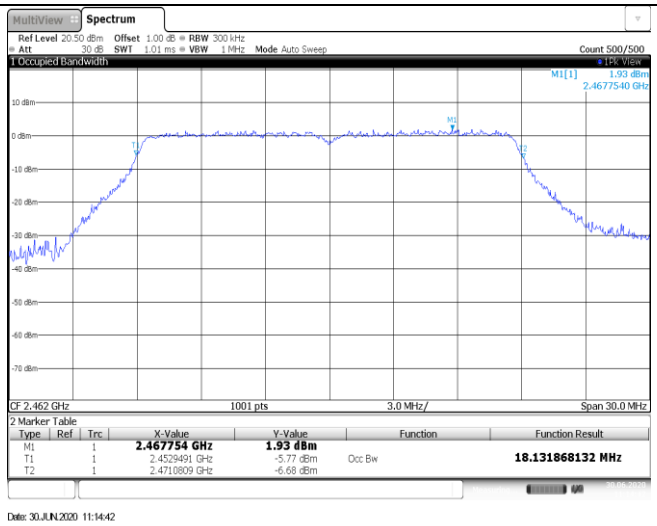
Type:	802.11n(HT40)
CH03	
CH06	
CH09	

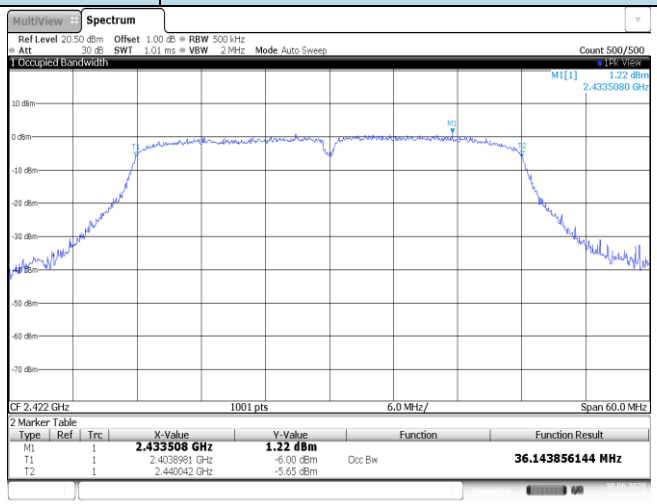
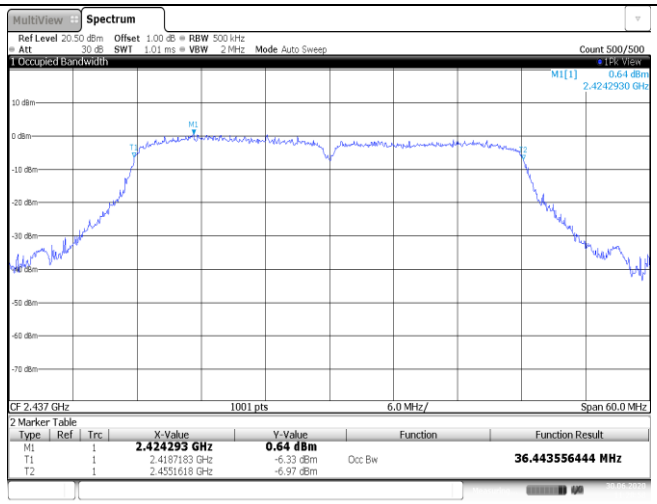
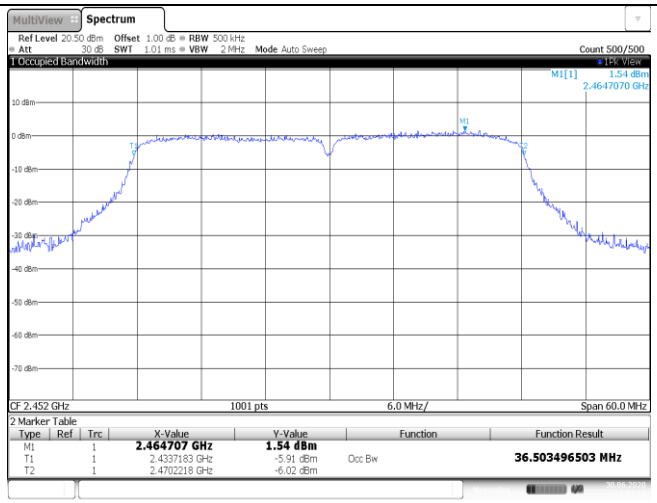
Appendix D：99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	13.82	-	Pass
	06	13.49		
	11	13.25		
802.11g	01	17.26	-	Pass
	06	17.29		
	11	17.17		
802.11n(HT20)	01	18.25	-	Pass
	06	18.16		
	11	18.13		
802.11n(HT40)	03	36.14	-	Pass
	06	36.44		
	09	36.50		

Type:	802.11 b
CH01	
CH06	
CH11	

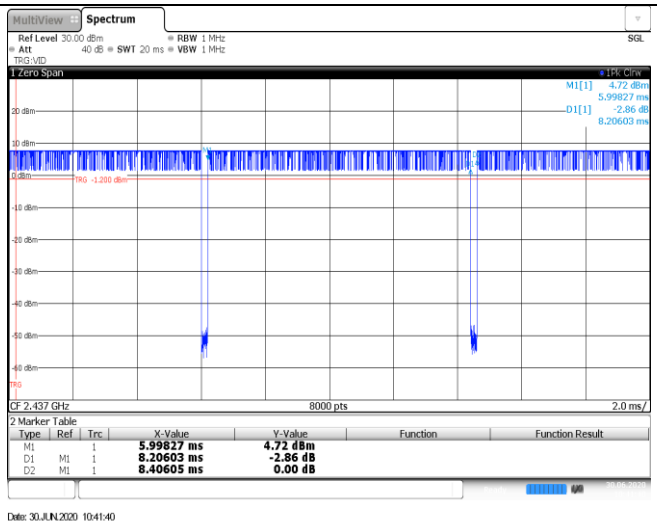
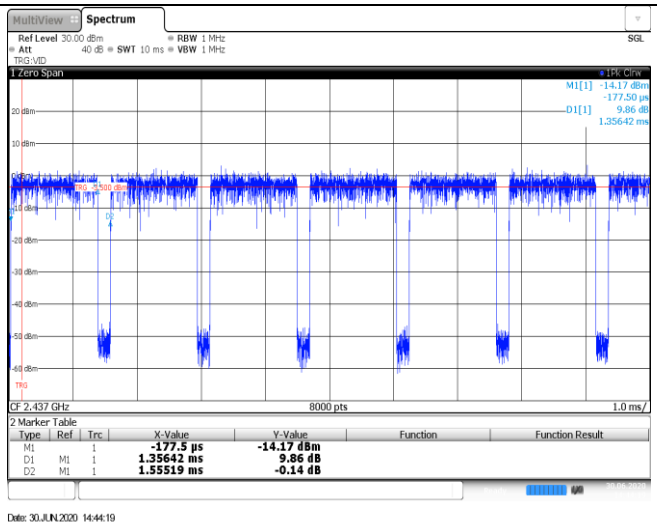
Type:	802.11 g
CH01	
CH06	
CH11	

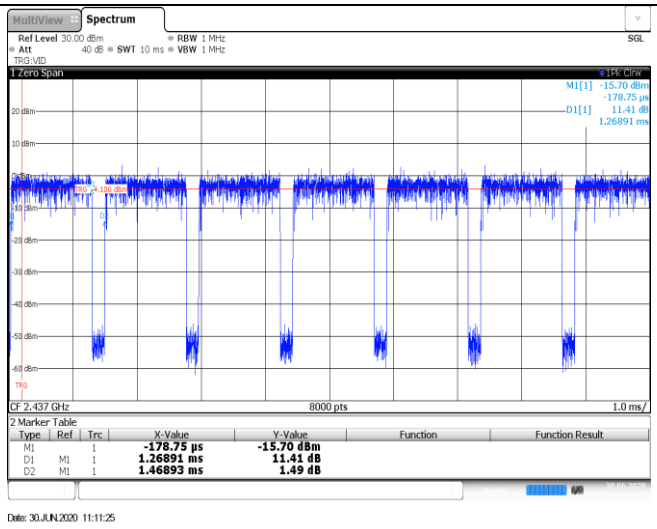
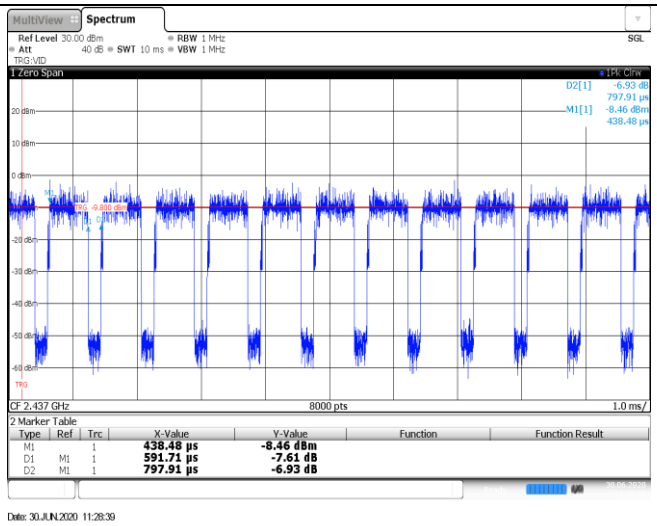
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

Type:	802.11n(HT40)
CH03	
CH06	
CH09	

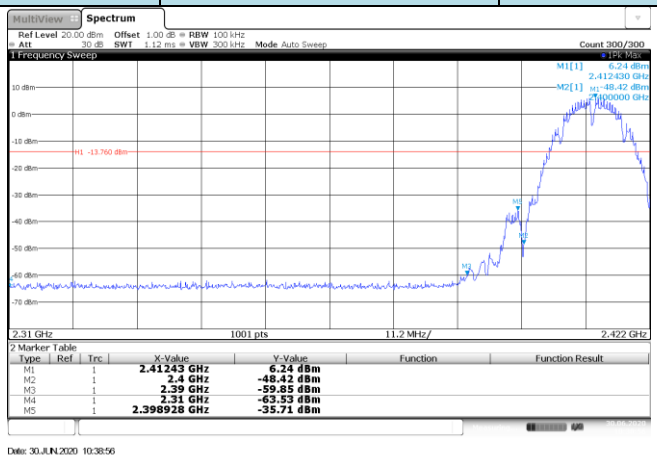
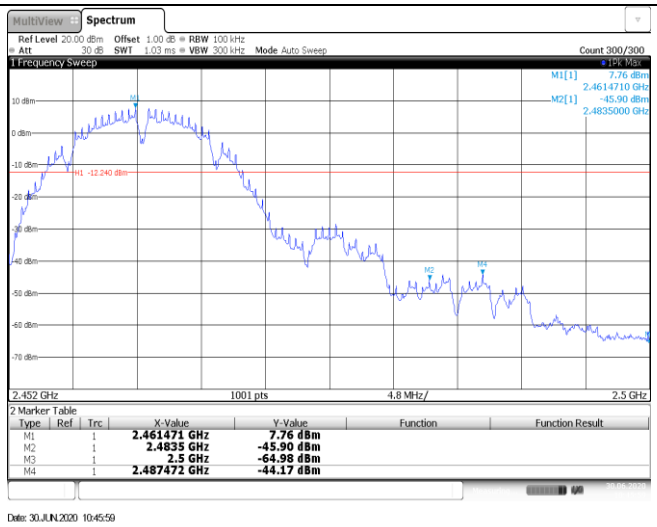
Appendix E：Duty Cycle

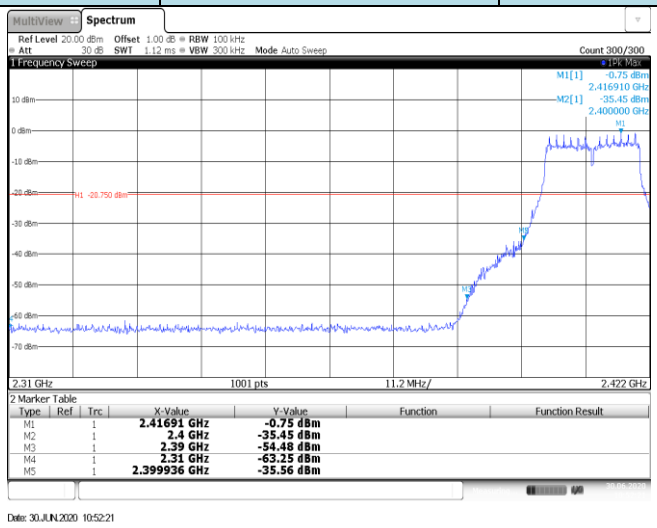
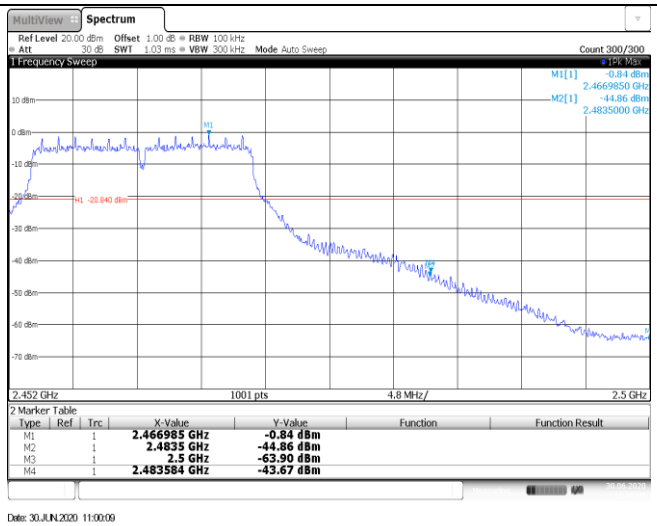
Modulation Type	Test Frequency（MHz）	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
11b	2437	8.21	8.41	97.6%	0.1
11g	2437	1.36	1.56	87.2%	0.7
11n20	2437	1.27	1.47	86.4%	0.8
11n40	2437	0.59	0.80	73.8%	1.7

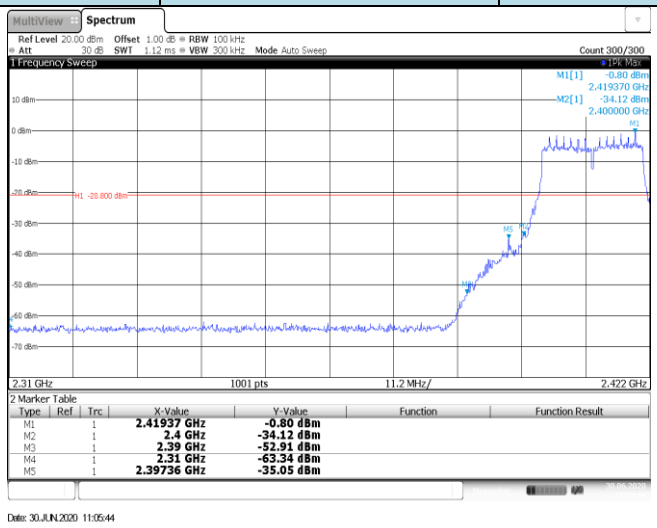
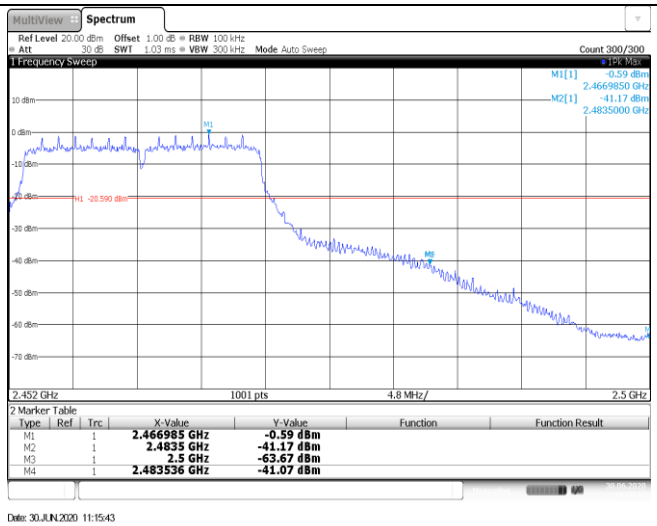
11b	
11g	

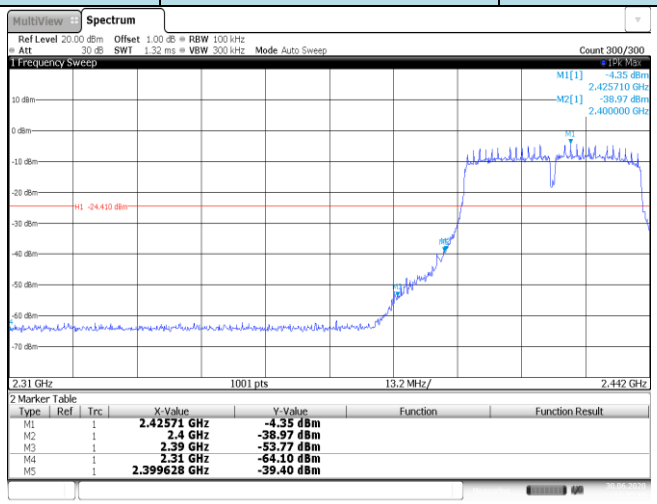
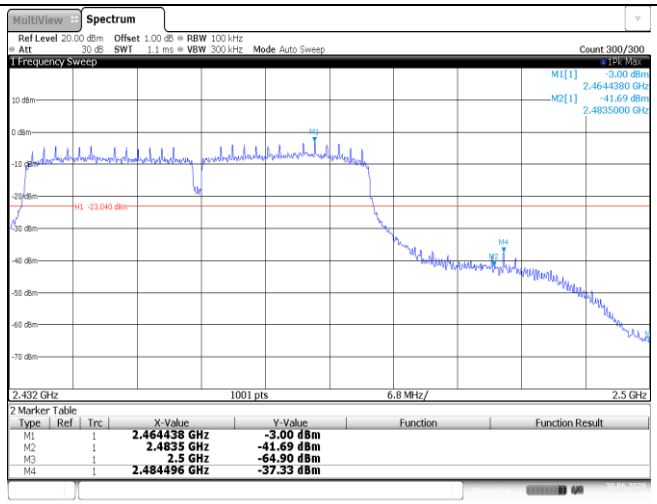
11n20	 MultiView Spectrum Ref Level 30.00 dBm RBW 1 MHz Att 40 dB SWT 10 ms VBW 1 MHz SGL TRG:VID 1 Zero Span 1Pk Clrw M1[1] -15.70 dBm -178.75 µs D1[1] 11.41 dB 1.26891 ms CF 2.437 GHz 8000 pts 1.0 ms/ 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 -178.75 µs -15.70 dBm D1 M1 1 1.26891 ms 11.41 dB D2 M1 1 1.46893 ms 1.49 dB Date: 30.JUN.2020 11:11:25
11n40	 MultiView Spectrum Ref Level 30.00 dBm RBW 1 MHz Att 40 dB SWT 10 ms VBW 1 MHz SGL TRG:VID 1 Zero Span 1Pk Clrw D2[1] -6.93 dB 797.91 µs M1[1] -8.46 dBm 438.48 µs CF 2.437 GHz 8000 pts 1.0 ms/ 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 438.48 µs -8.46 dBm D1 M1 1 591.71 µs -7.61 dB D2 M1 1 797.91 µs -6.93 dB Date: 30.JUN.2020 11:28:39

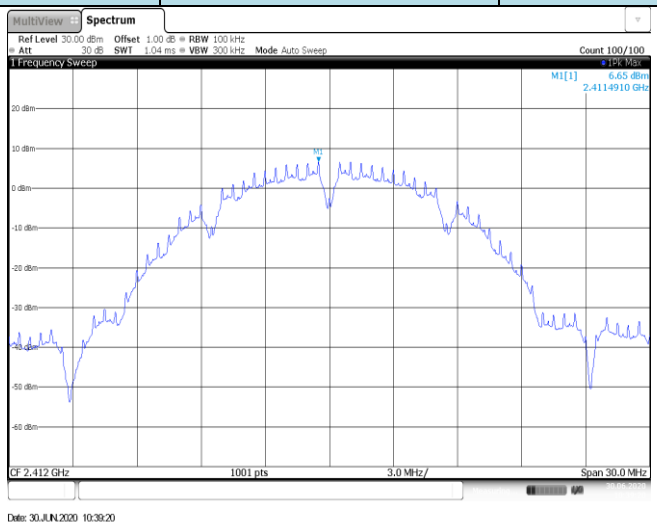
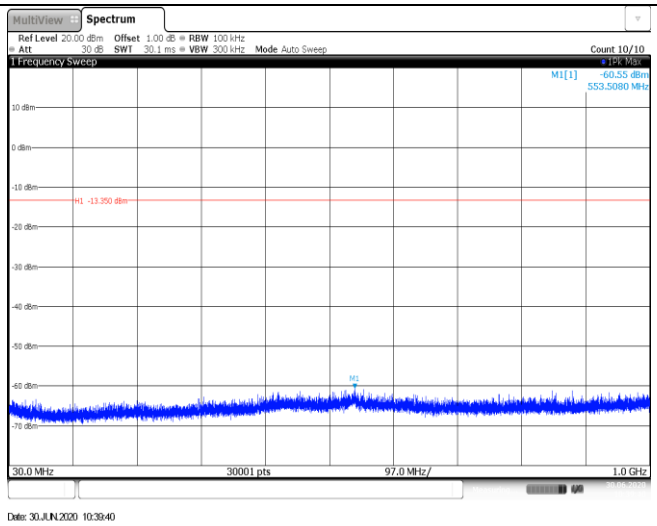
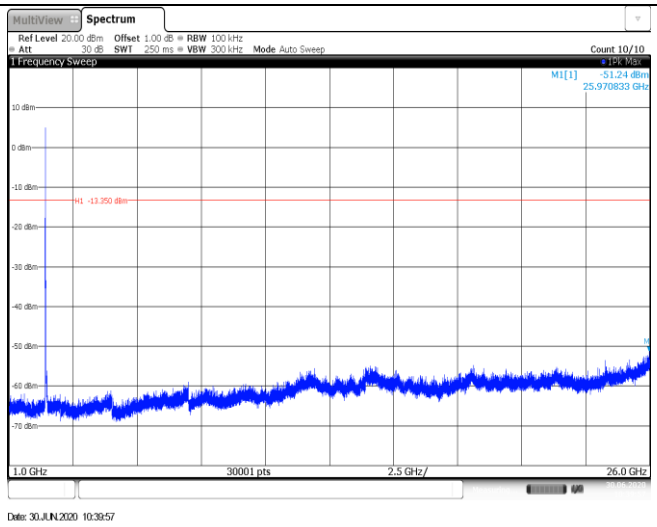
Appendix F：Band edge and Spurious Emissions (conducted)

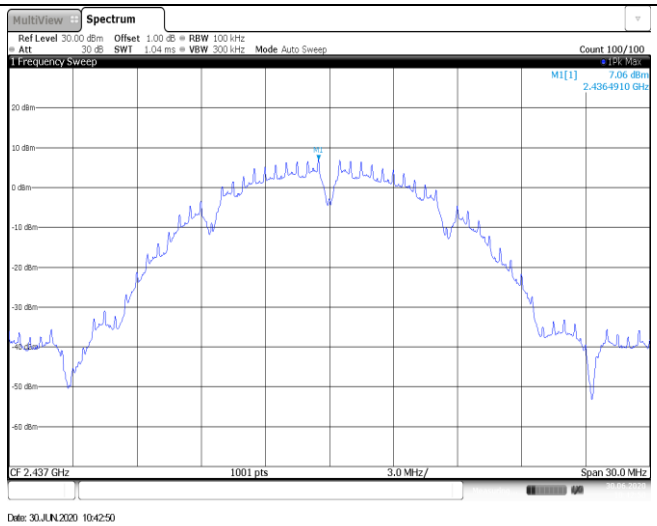
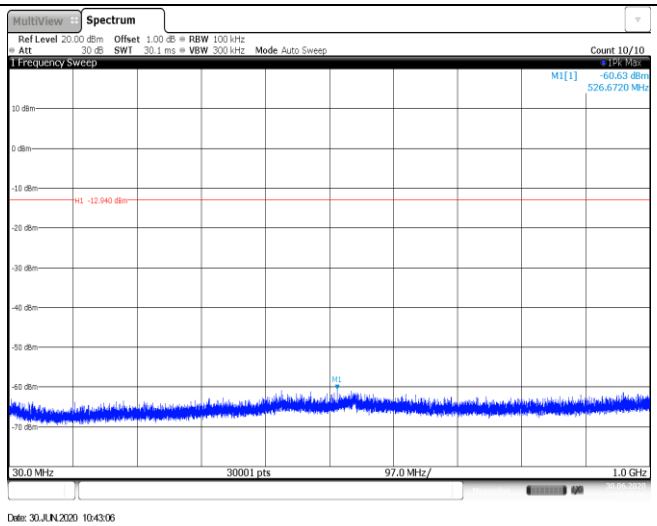
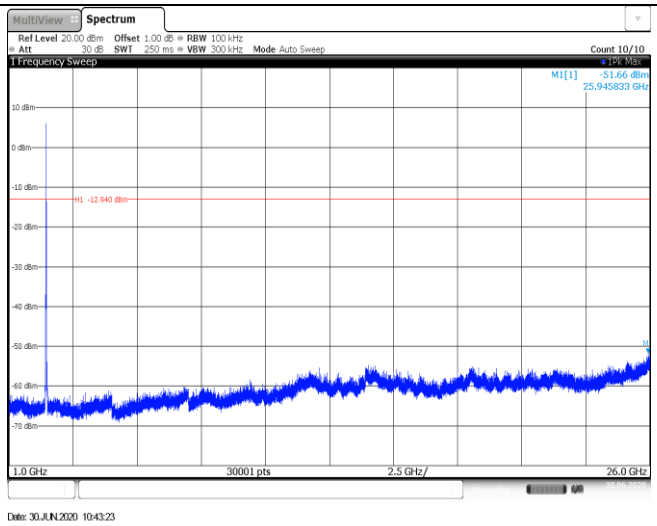
Test Item:	Bandedge	Type:	802.11 b
CH01	
CH11	

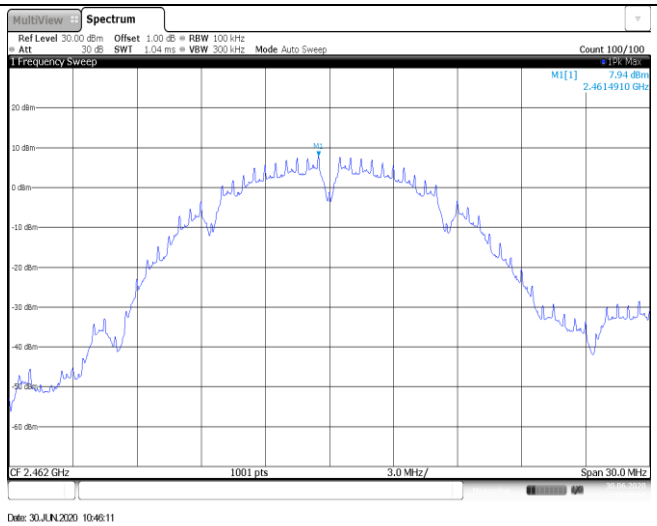
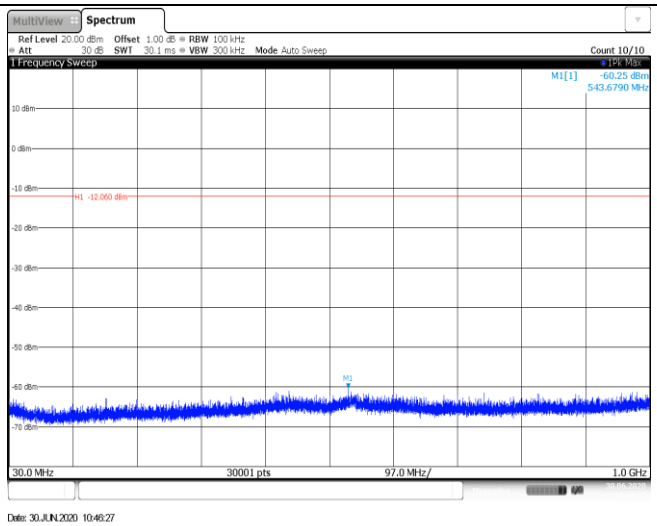
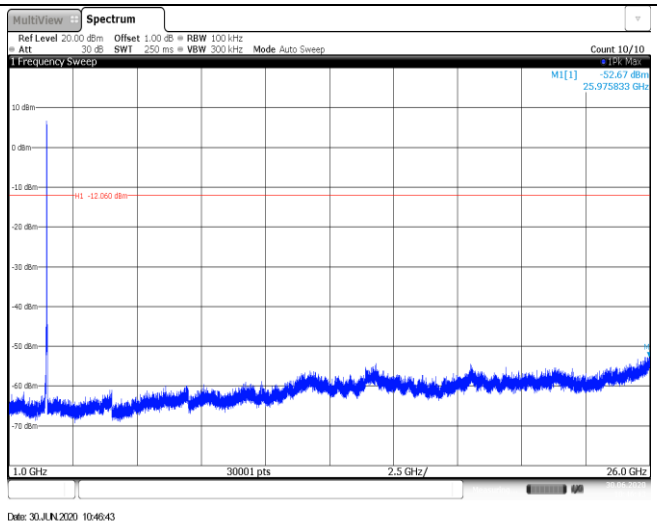
Test Item:	Bandedge	Type:	802.11 g
CH01			
CH11			

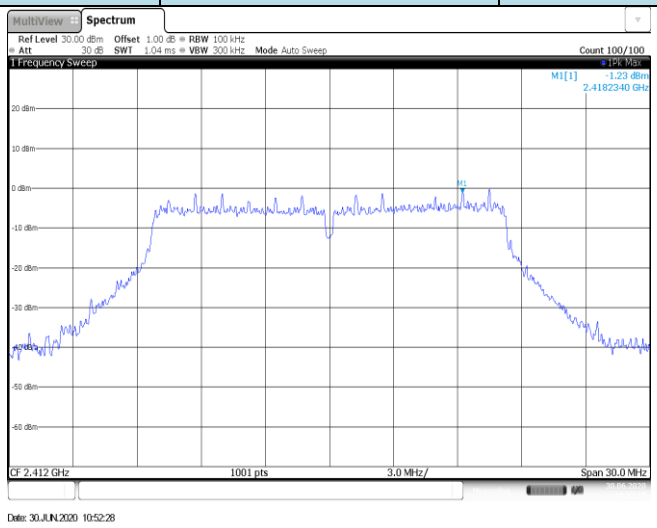
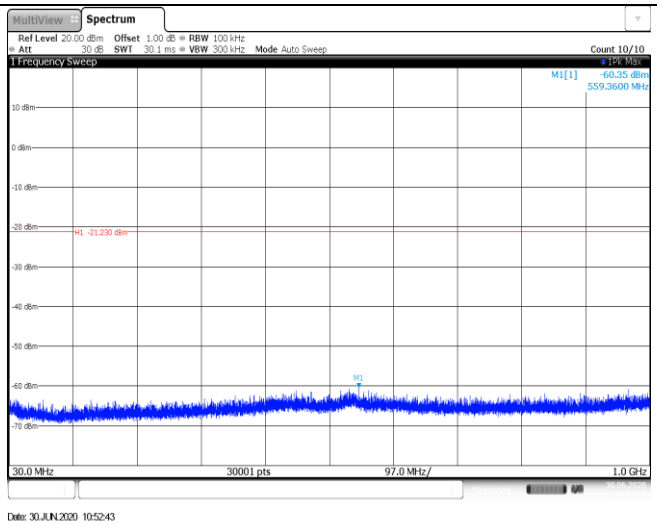
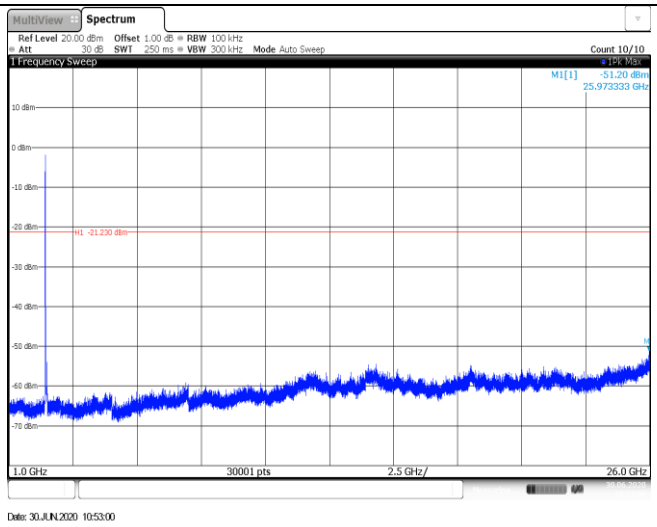
Test Item:	Bandedge	Type:	802.11 n(HT20)
CH01			
CH11			

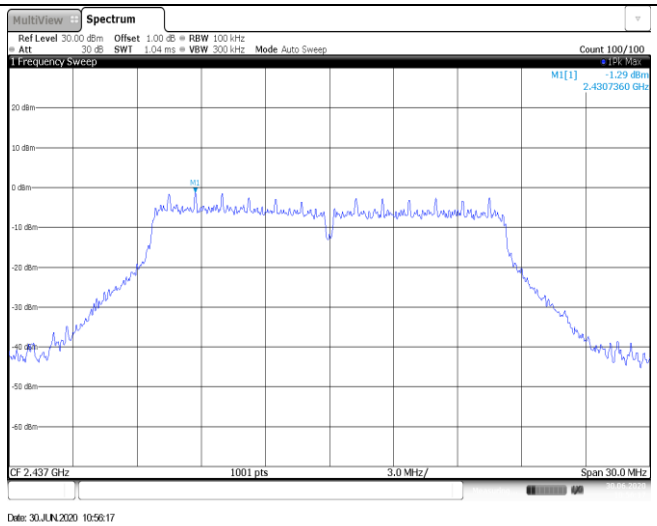
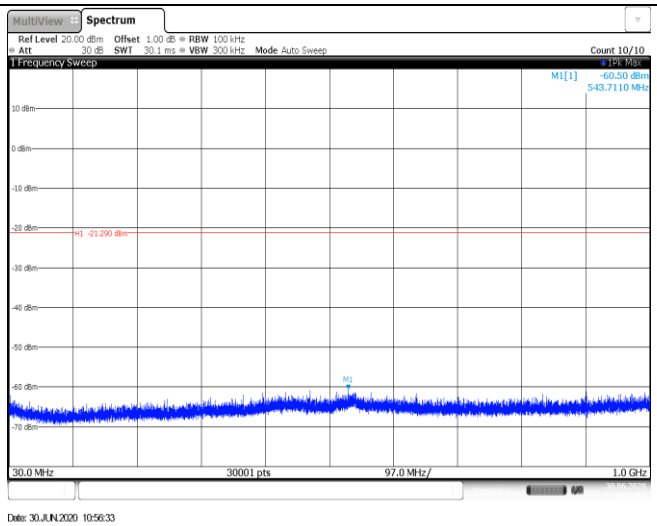
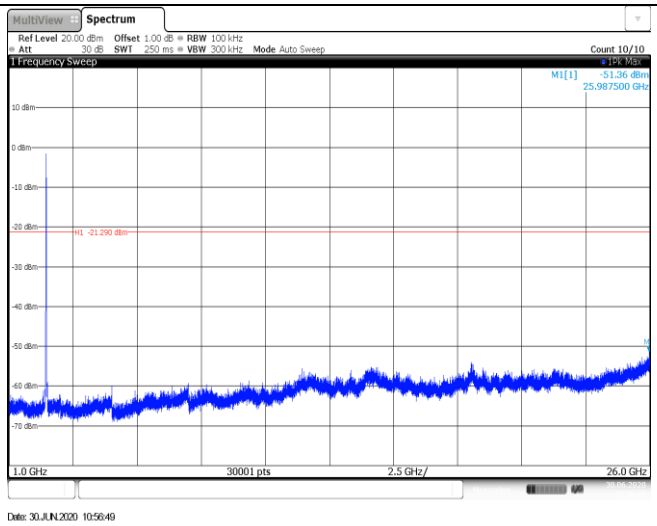
Test Item:	Bandedge	Type:	802.11 n(HT40)
CH03			
CH09			

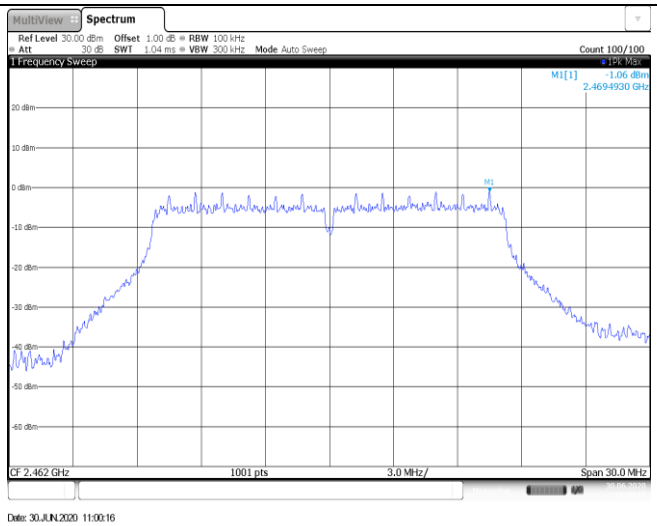
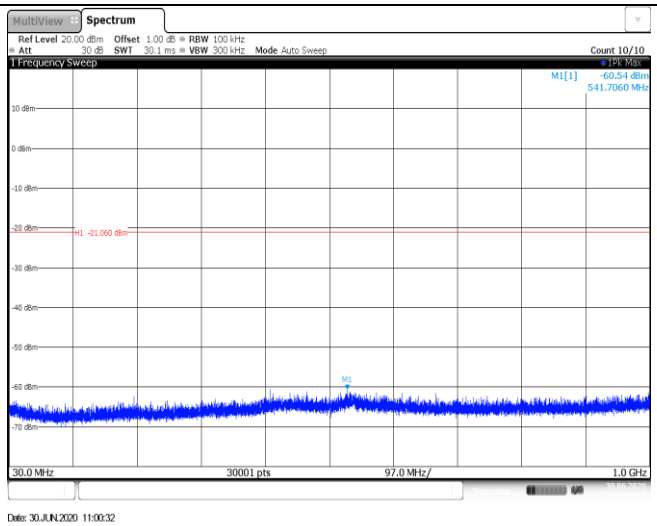
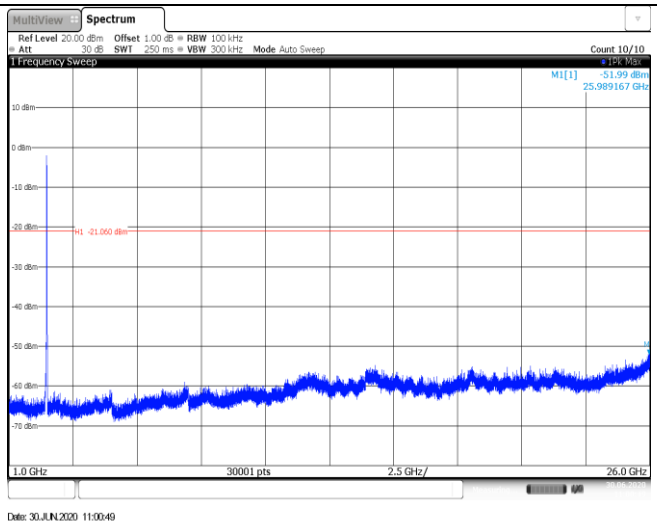
Test Item:	SE	Type:	802.11b
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

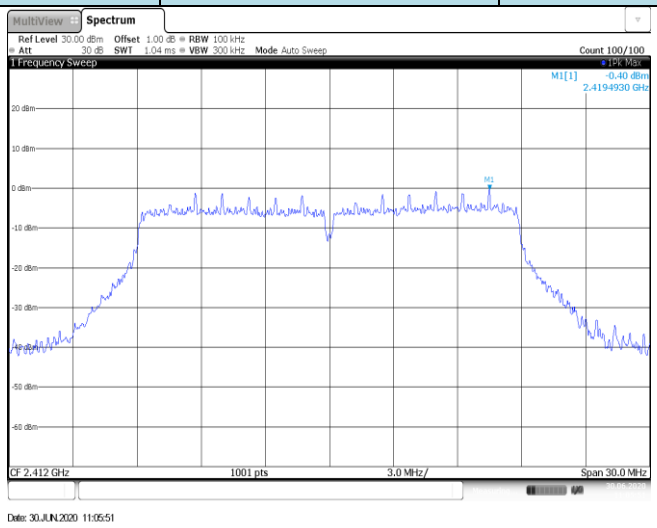
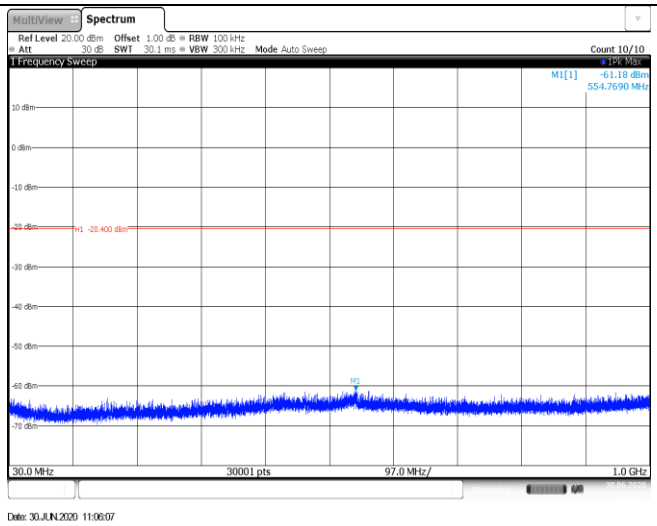
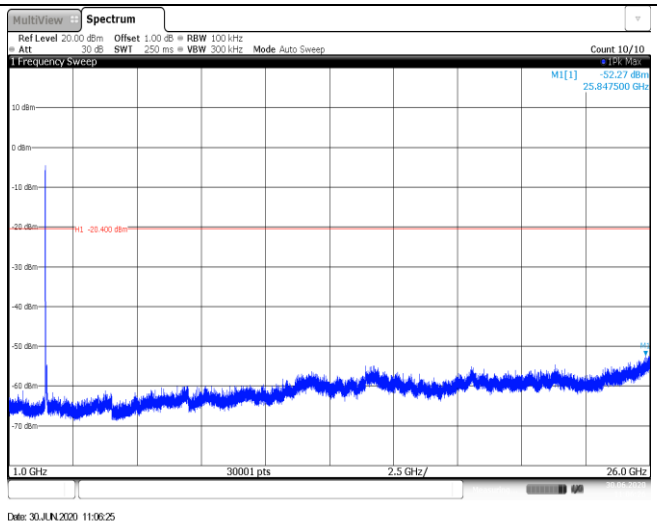
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

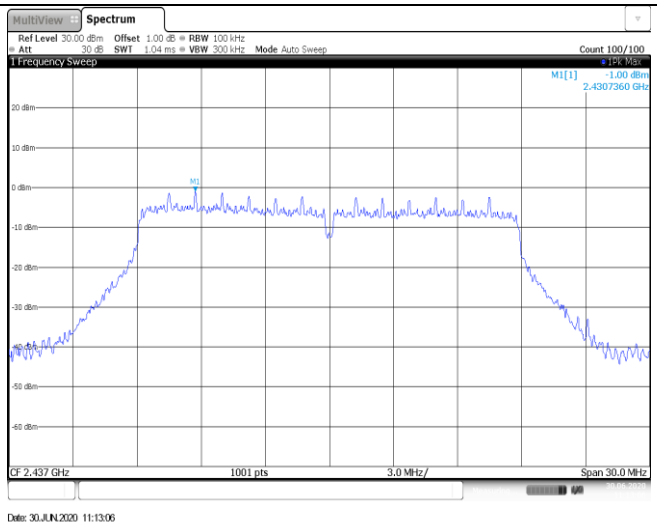
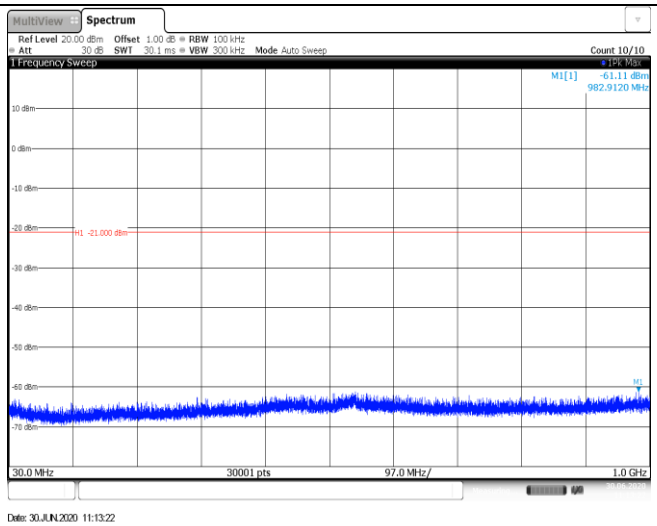
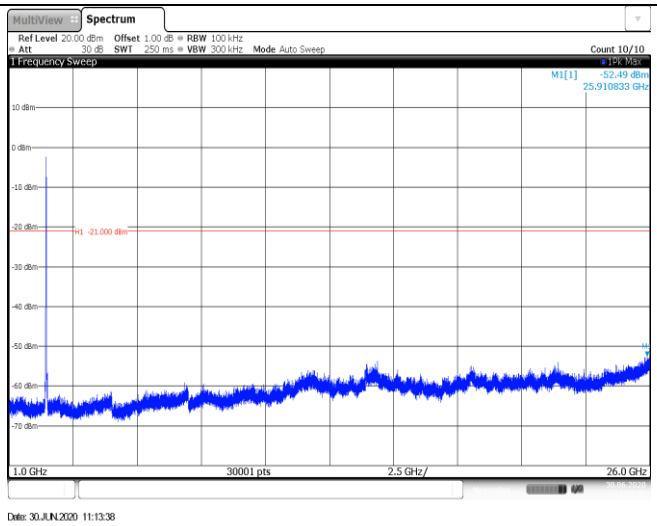
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

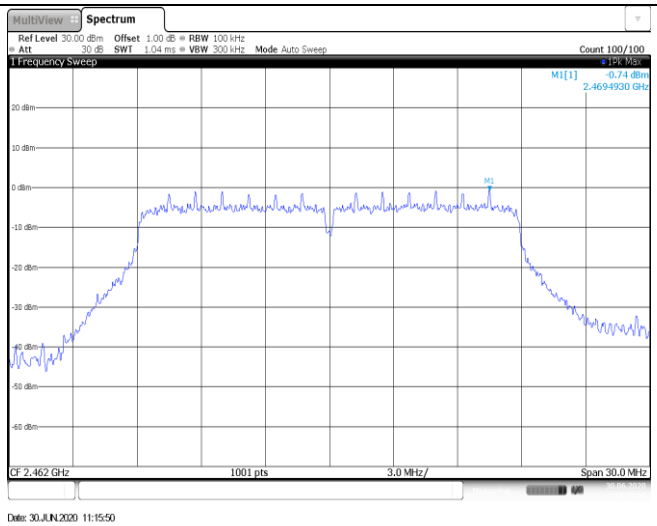
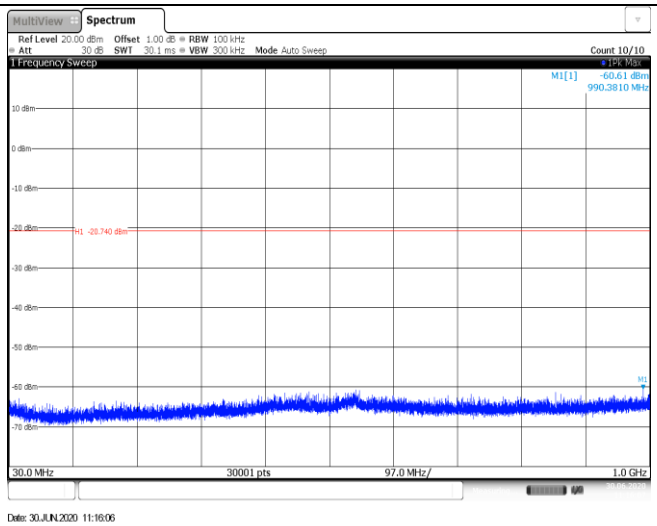
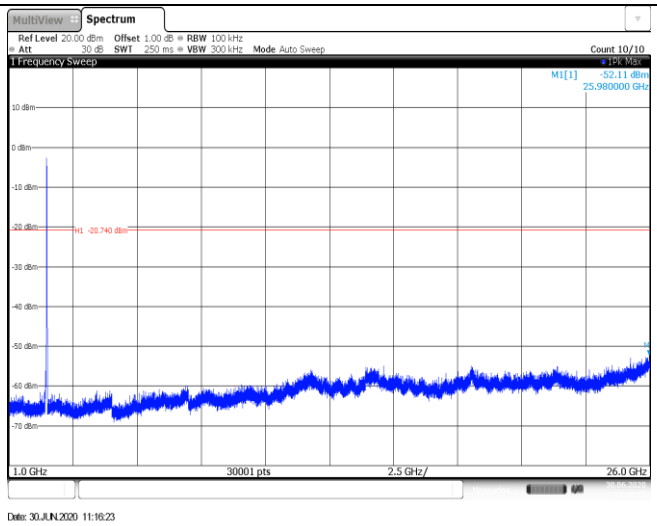
Test Item:	SE	Type:	802.11g
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

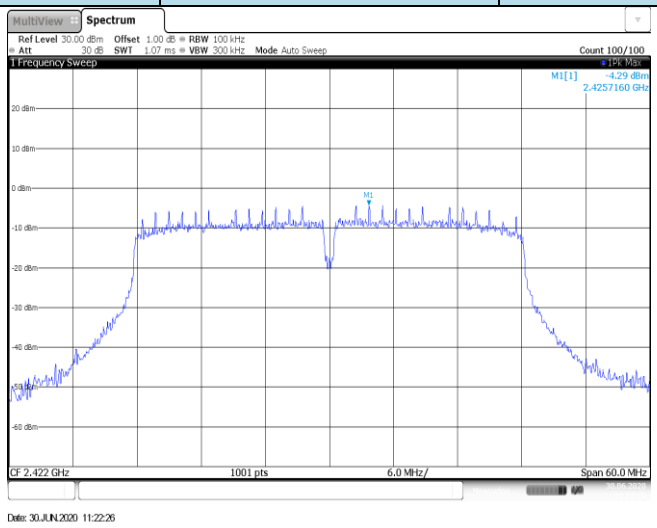
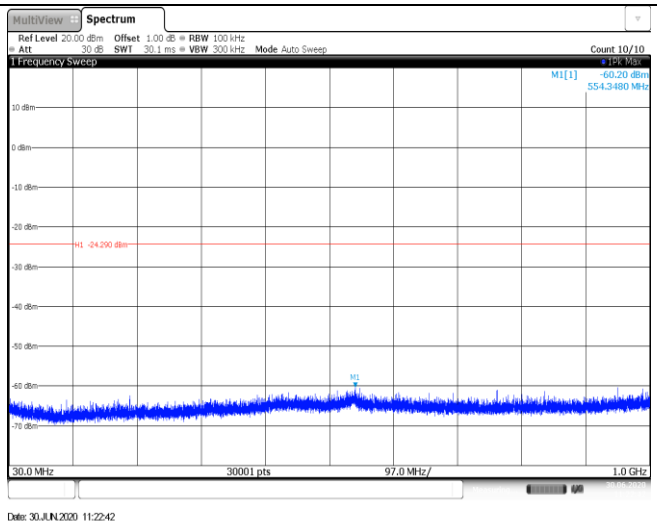
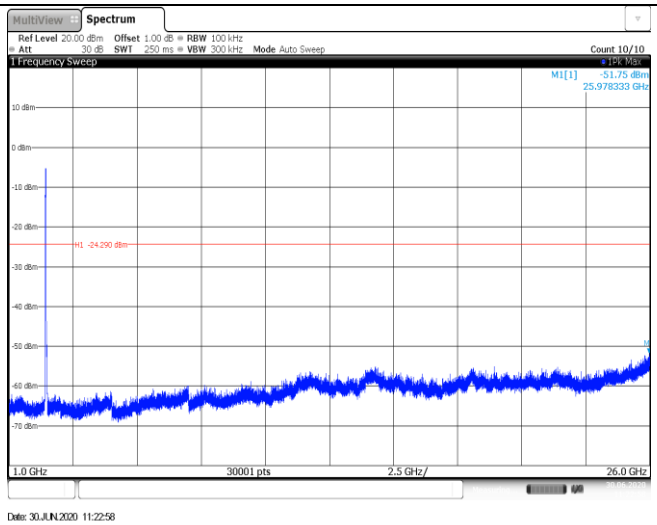
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

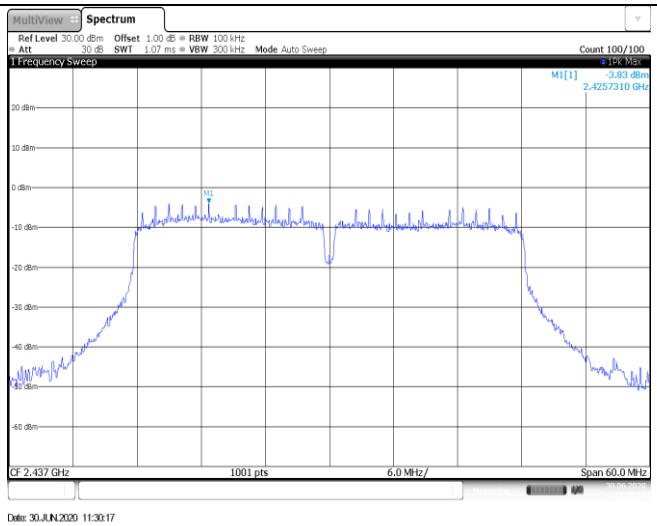
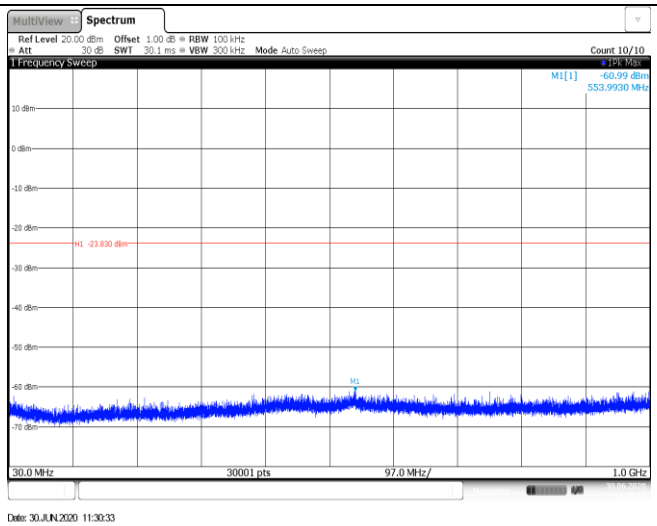
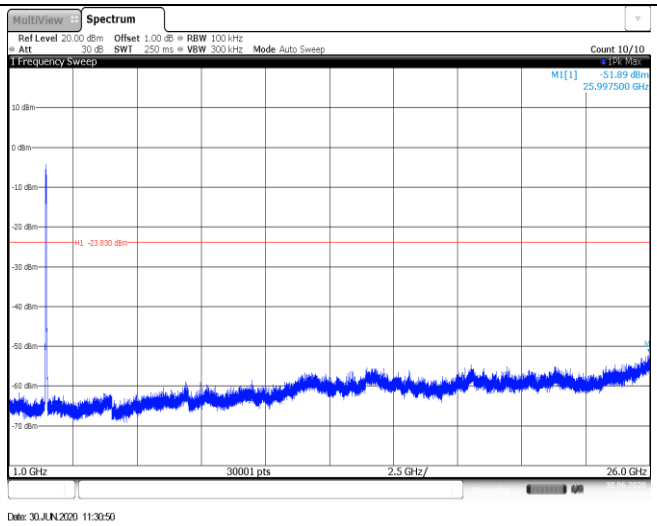
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

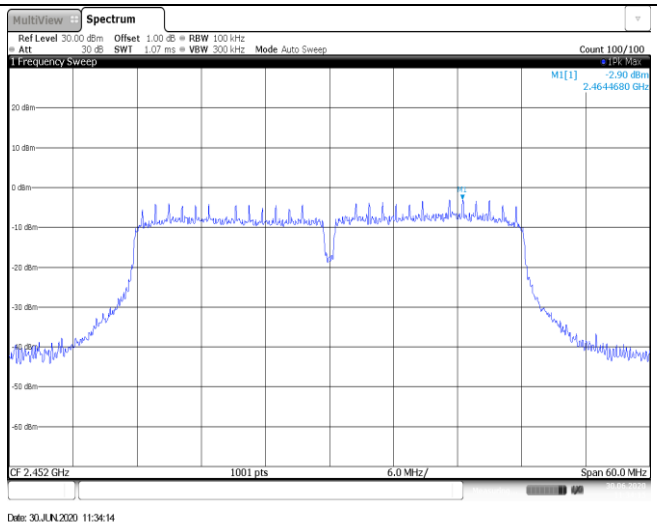
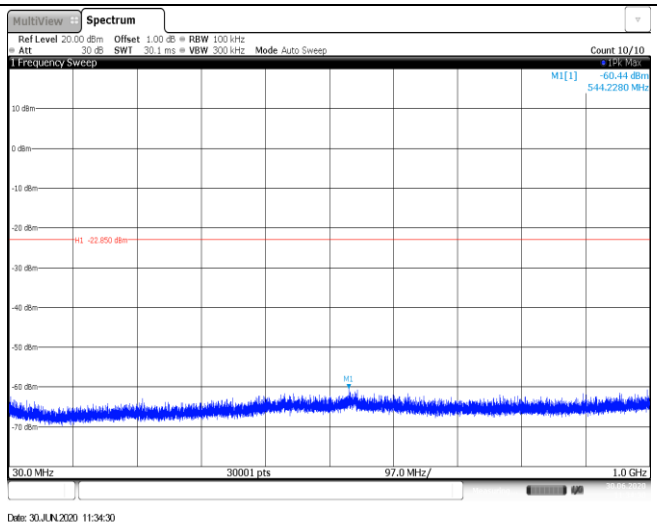
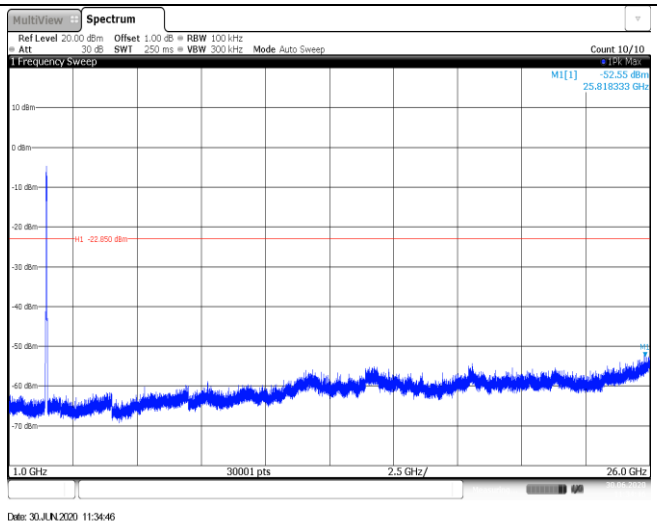
Test Item:	SE	Type:	802.11n(HT20)
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

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

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

Test Item:	SE	Type:	802.11n(HT40)
CH03 Reference level			
CH03 30MHz~1000MHz			
CH03 1GHz~26GHz			

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

CH09 Reference level	
CH09 30MHz~1000MHz	
CH09 1GHz~26GHz	

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