APPENDIX REPORT

Project No.	SHT2102028901EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT21020289001	Model No.	H60
Start test date	2021-02-26	Finish date	2021-02-26
Temperature	24.8°C	Humidity	50%
Test Engineer	Qizhi Zhang	Auditor	Xiaodong Zhao

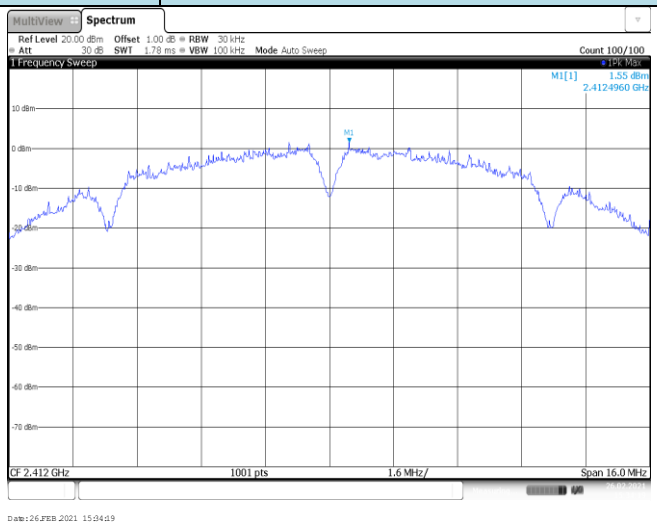
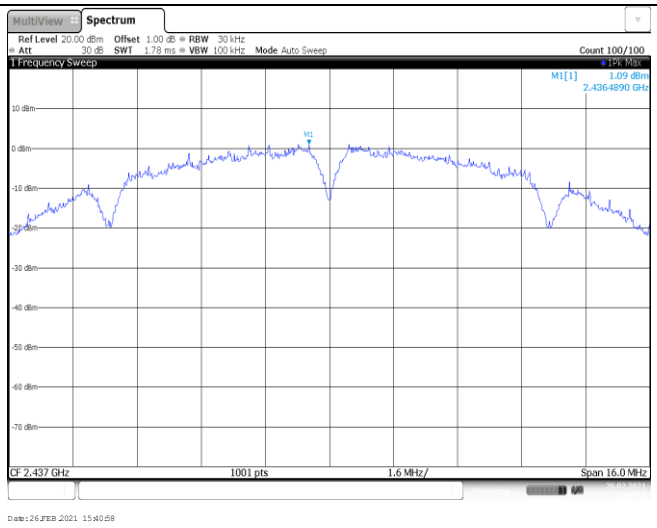
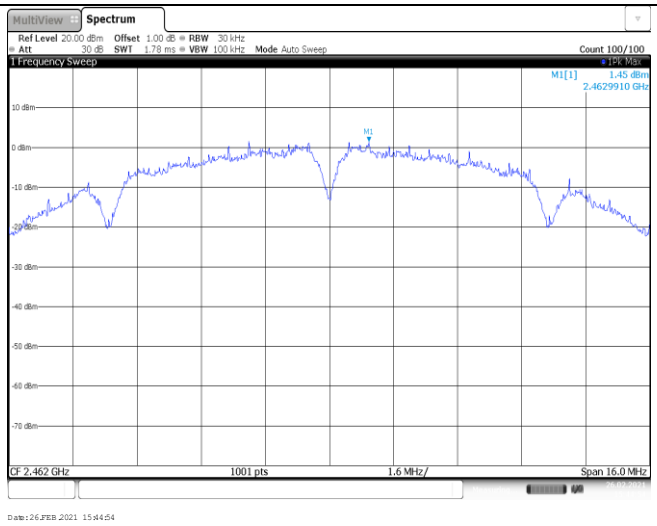
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

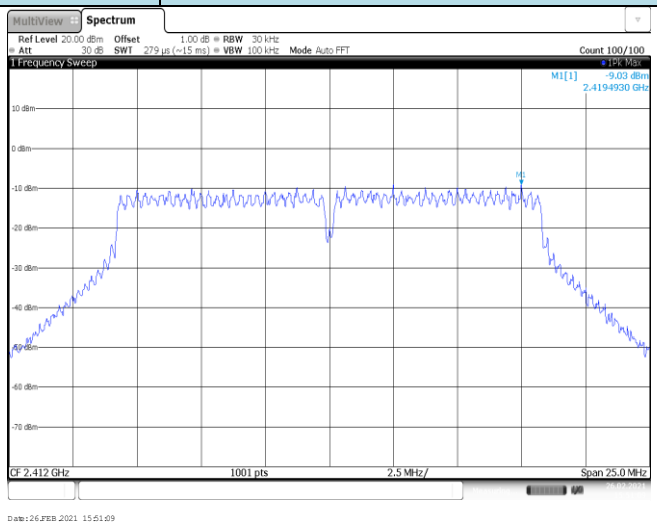
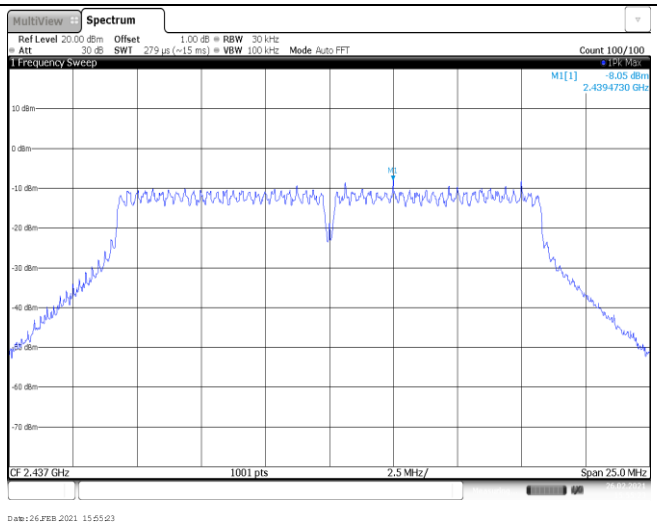
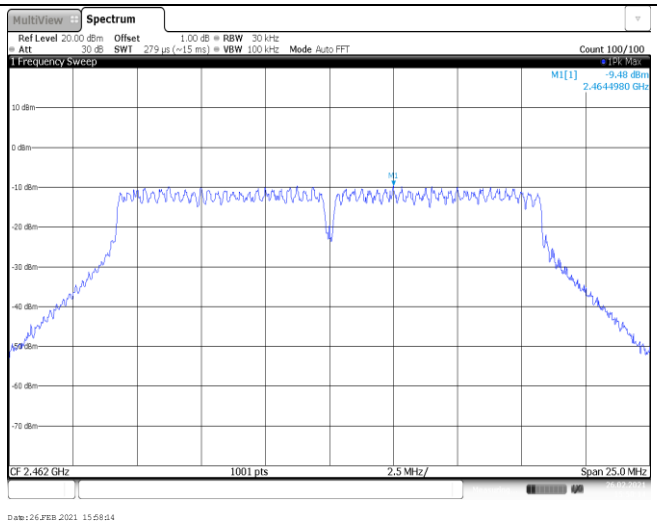
Appendix A: Conducted Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	16.57	14.12	≤ 30.00	Pass
	06	16.14	13.74		
	11	16.66	14.22		
802.11g	01	15.55	12.99	≤ 30.00	Pass
	06	15.56	13.08		
	11	16.09	13.55		
802.11n (HT20)	01	15.47	12.82	≤ 30.00	Pass
	06	15.29	12.74		
	11	15.79	13.18		
802.11n(HT40)	03	15.42	12.63	≤ 30.00	Pass
	06	15.35	12.61		
	09	15.60	12.88		

Appendix B：Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	1.55	≤8.00	Pass
	06	1.09		
	11	1.45		
802.11g	01	-9.03	≤8.00	Pass
	06	-8.05		
	11	-9.48		
802.11n(HT20)	01	-9.68	≤8.00	Pass
	06	-9.15		
	11	-8.56		
802.11n(HT40)	03	-12.44	≤8.00	Pass
	06	-13.46		
	09	-12.29		

Type:	802.11 b
CH01	
CH06	
CH11	

Type:	802.11 g
CH01	
CH06	
CH11	

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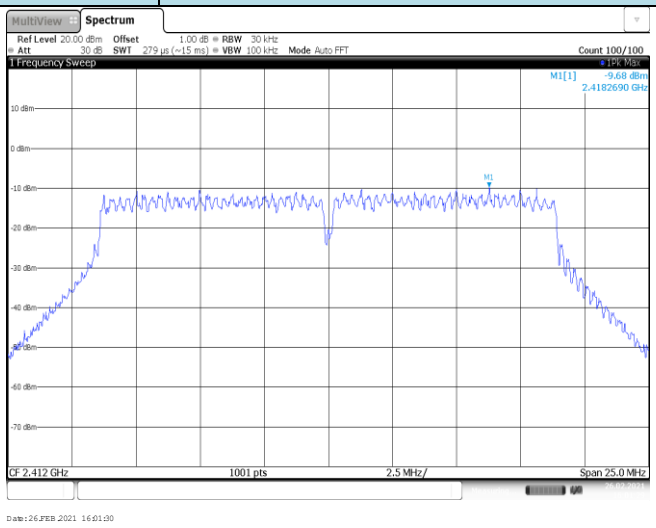
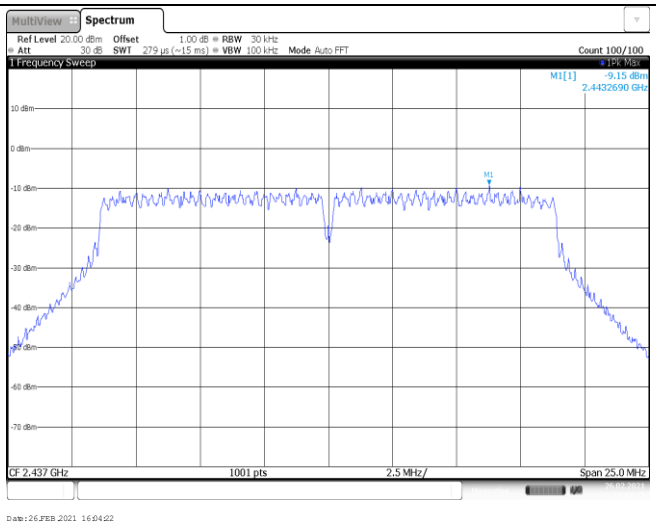
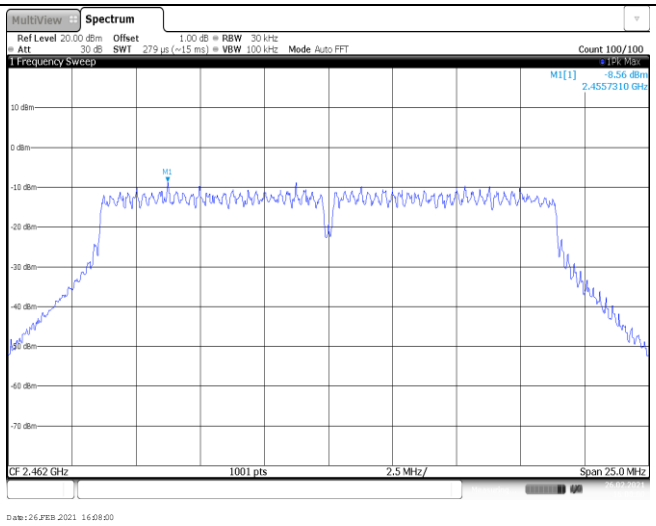
CH01	
CH06	
CH11	

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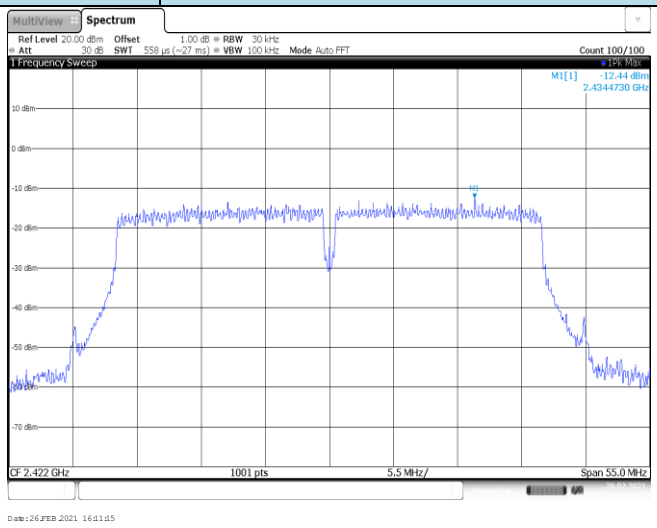
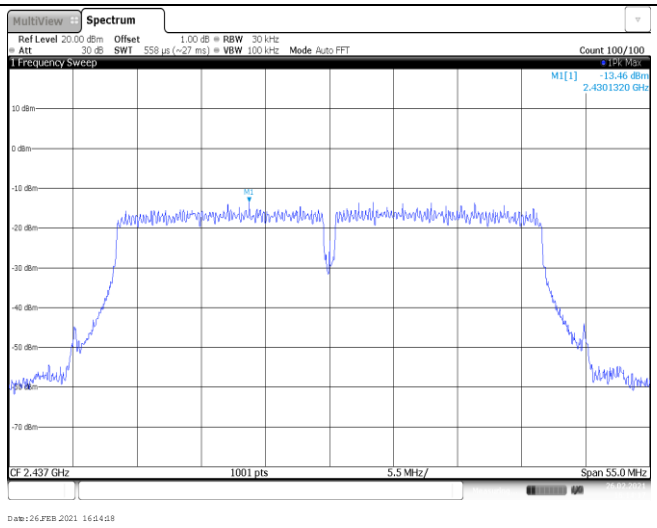
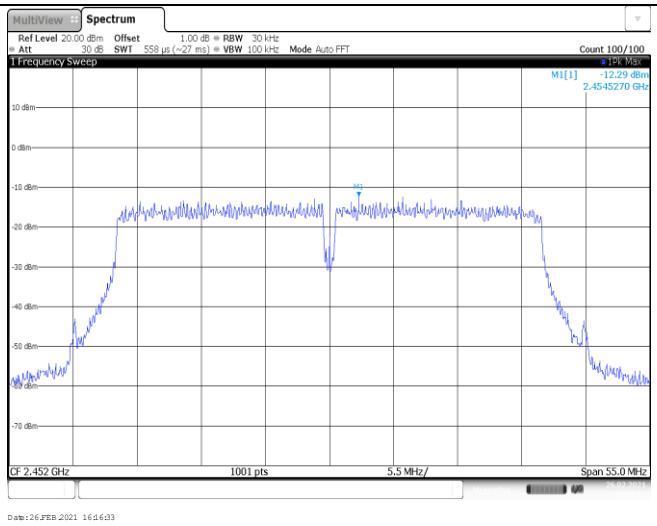
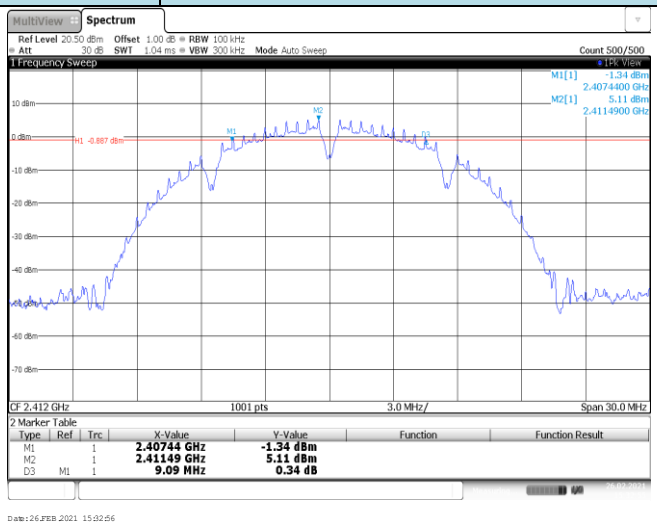
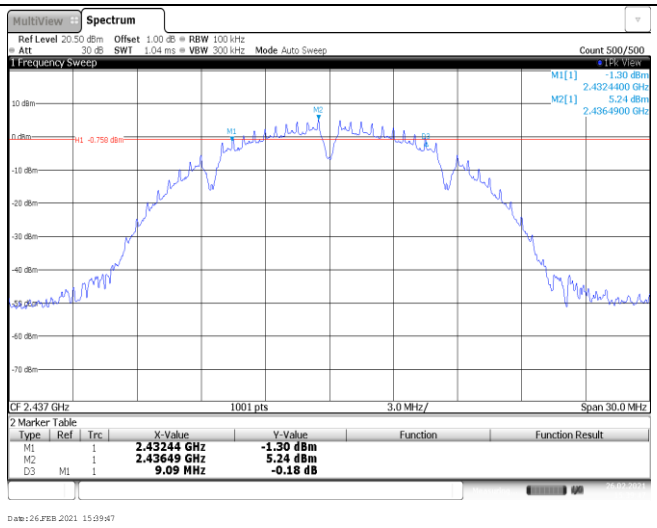
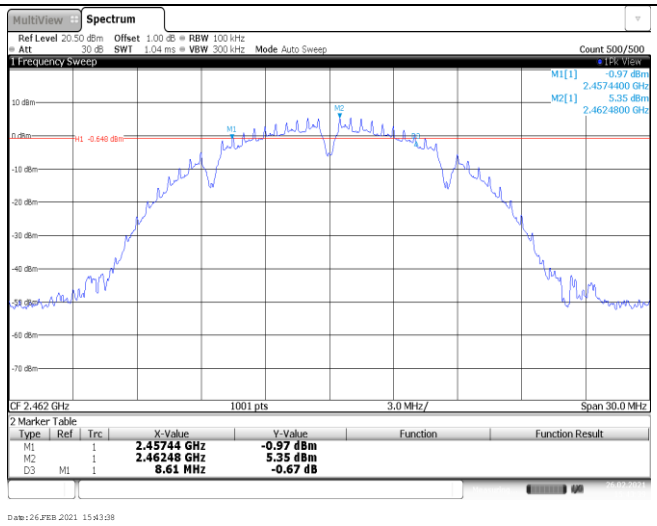
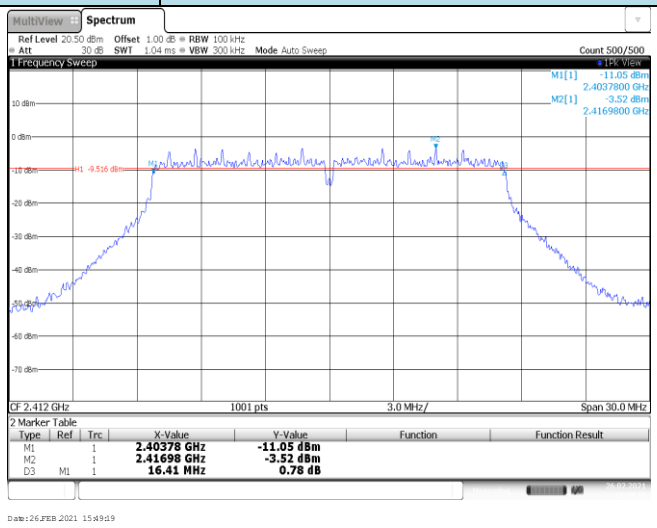
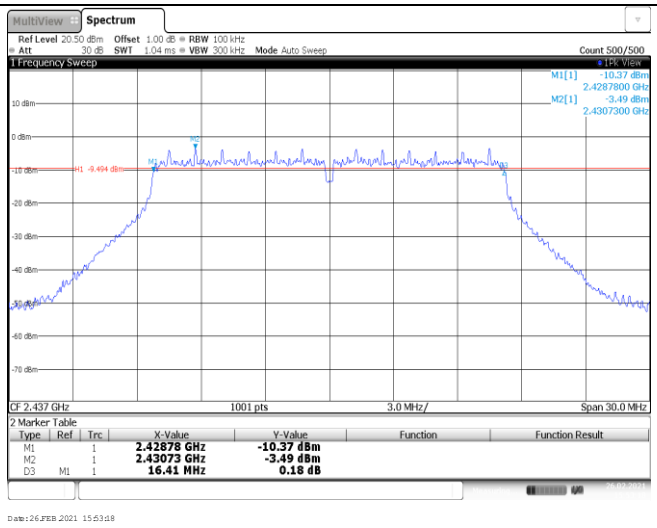
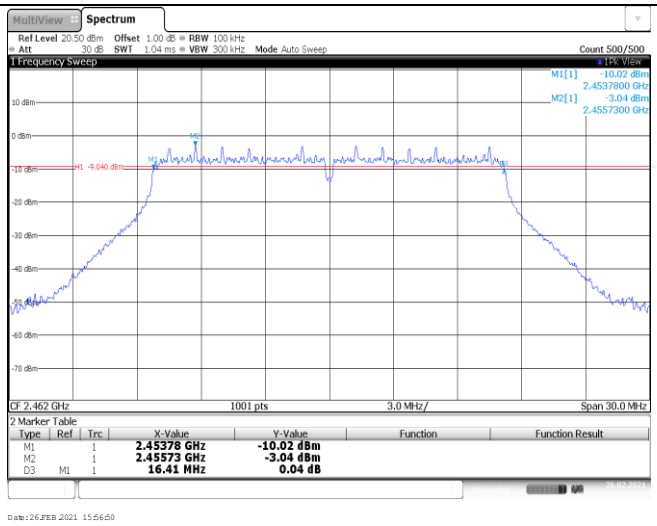
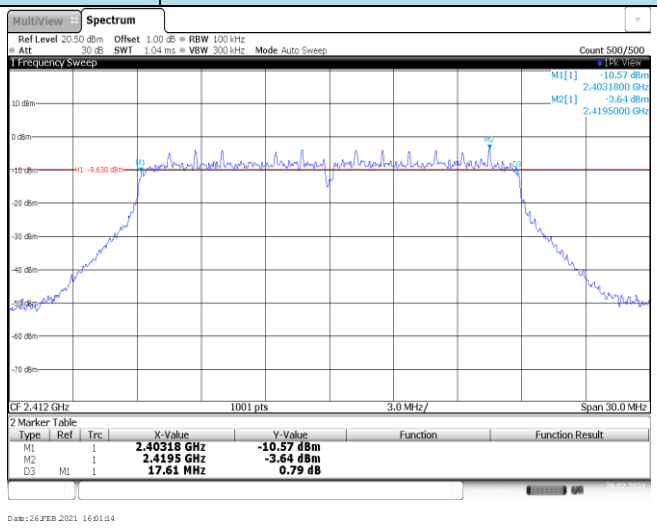
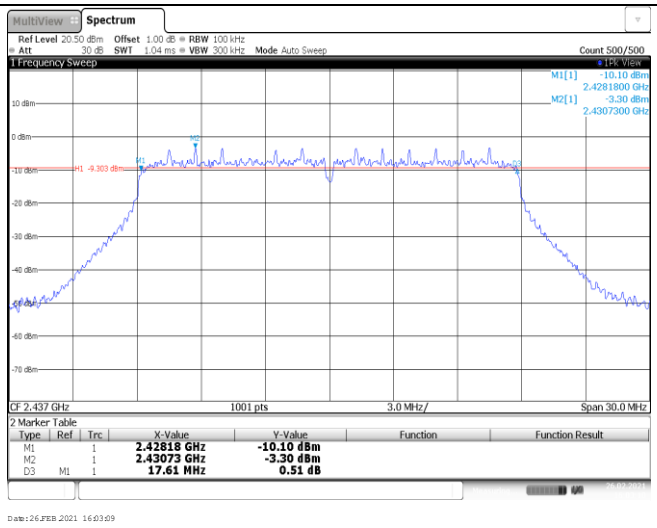
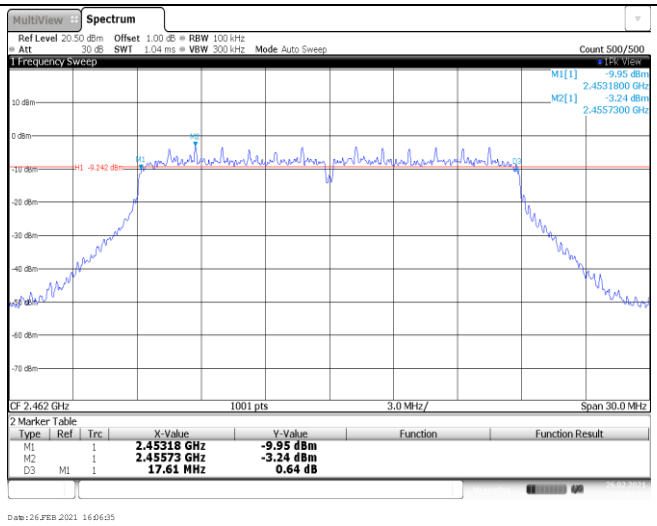
CH03	
CH06	
CH09	

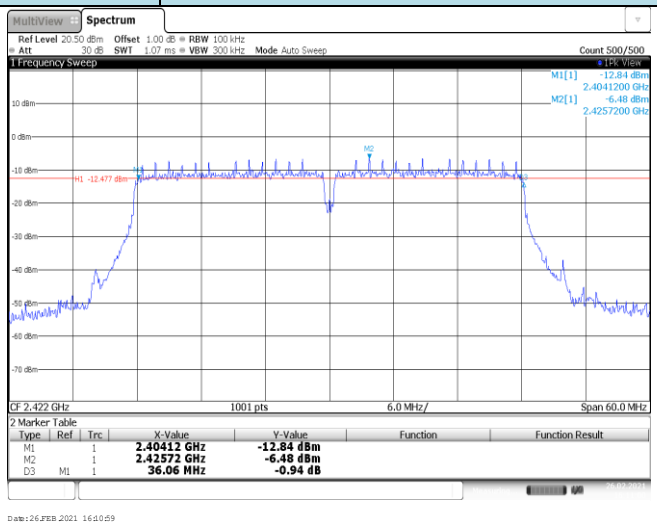
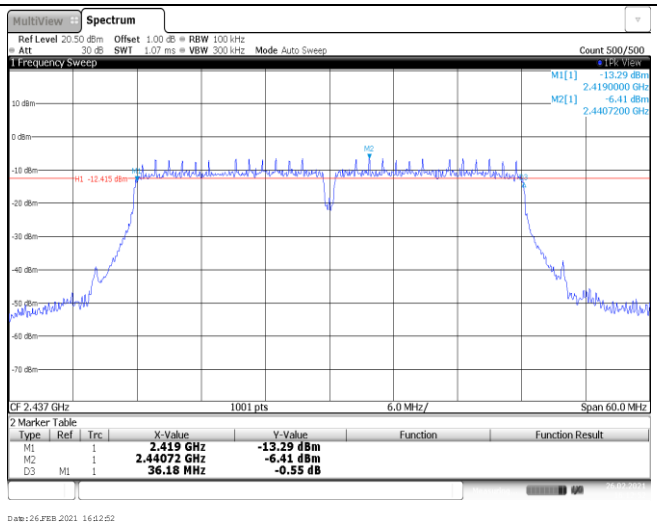
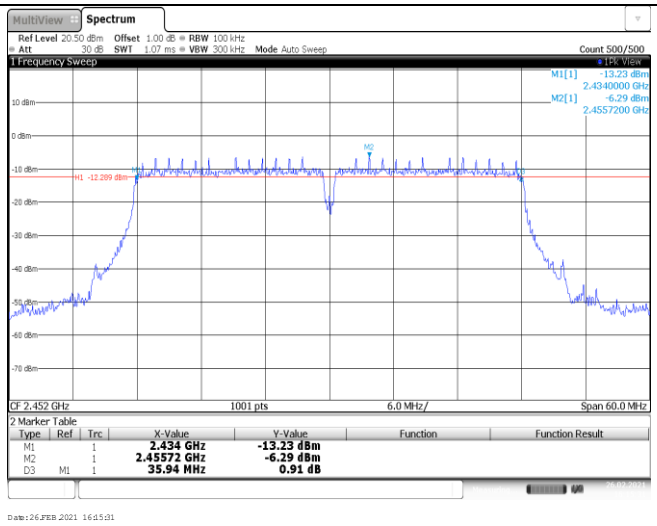
Appendix C：6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.09	≥0.5	Pass
	06	9.09		
	11	8.61		
802.11g	01	16.41	≥0.5	Pass
	06	16.41		
	11	16.41		
802.11n(HT20)	01	17.61	≥0.5	Pass
	06	17.61		
	11	17.61		
802.11n(HT40)	03	36.06	≥0.5	Pass
	06	36.18		
	09	35.94		

Type:	802.11 b
CH01	
CH06	
CH11	

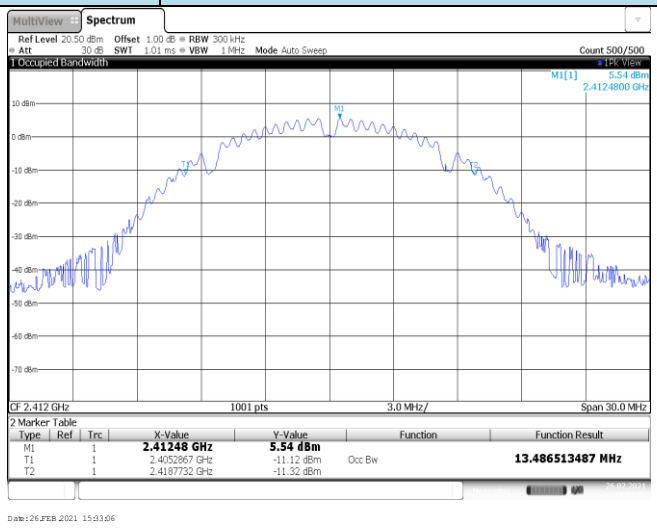
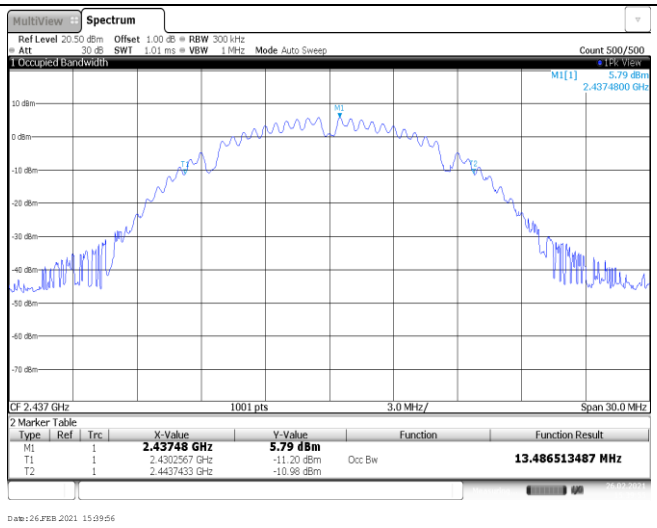
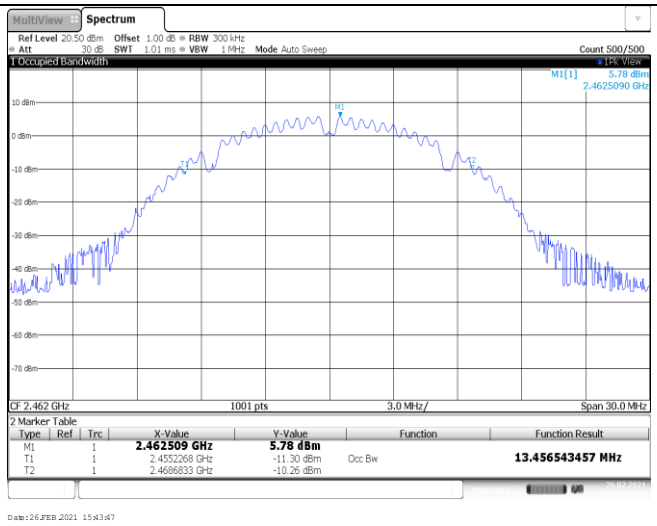
Type:	802.11 g
CH01	
CH06	
CH11	

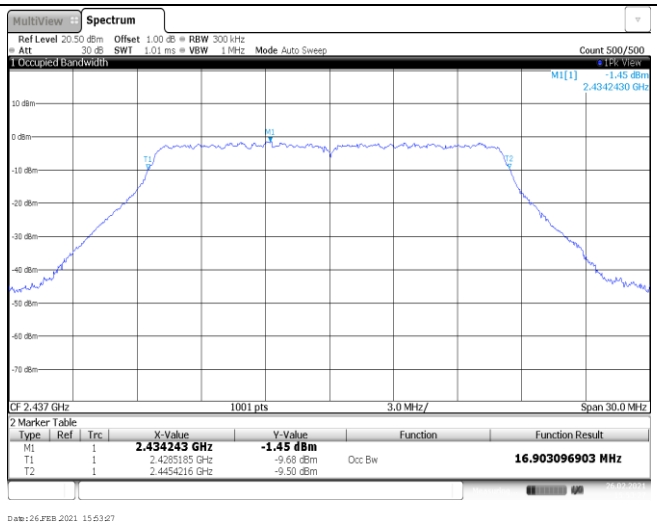
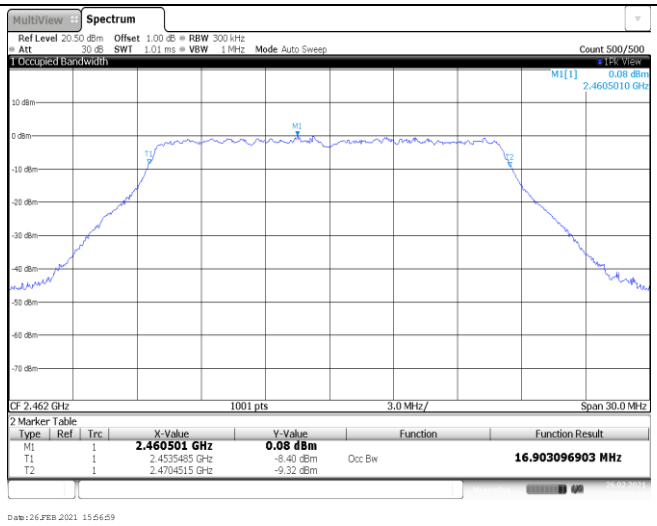
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

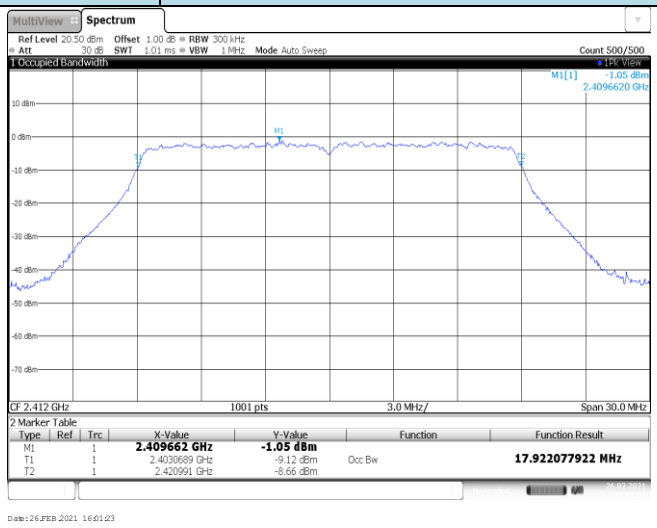
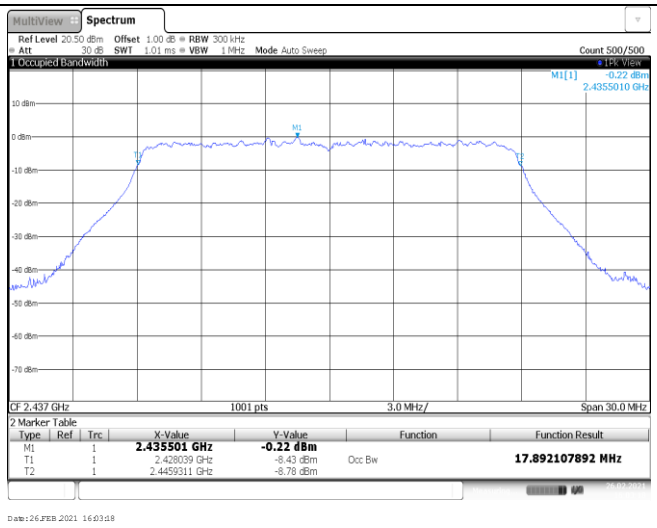
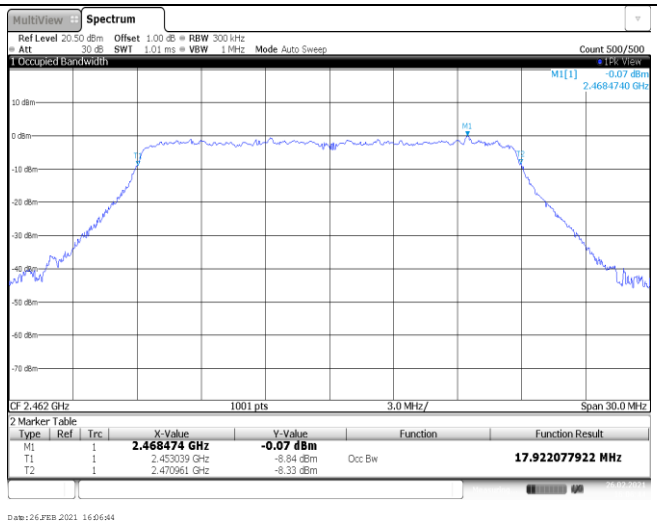
Type:	802.11n(HT40)
CH03	
CH06	
CH09	

Appendix D：99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	13.49	-	Pass
	06	13.49		
	11	13.46		
802.11g	01	16.84	-	Pass
	06	16.90		
	11	16.90		
802.11n(HT20)	01	17.92	-	Pass
	06	17.89		
	11	17.92		
802.11n(HT40)	03	36.32	-	Pass
	06	36.44		
	09	36.32		

Type:	802.11 b
CH01	
CH06	
CH11	

Type:	802.11 g
CH01	
CH06	
CH11	

Type:	802.11n(HT20)
CH01	
CH06	
CH11	

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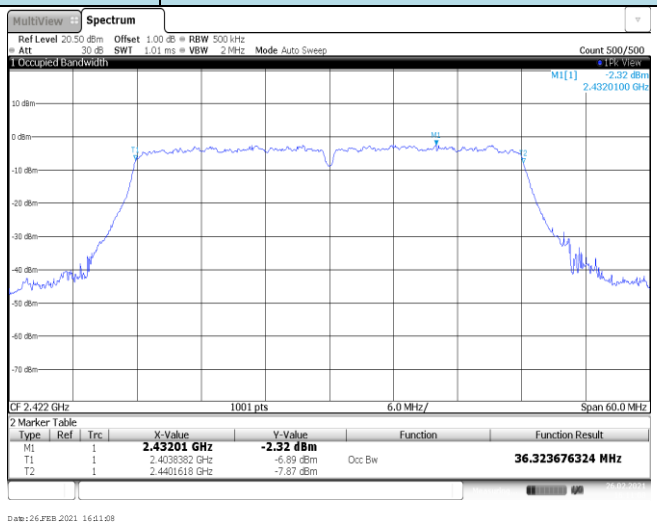
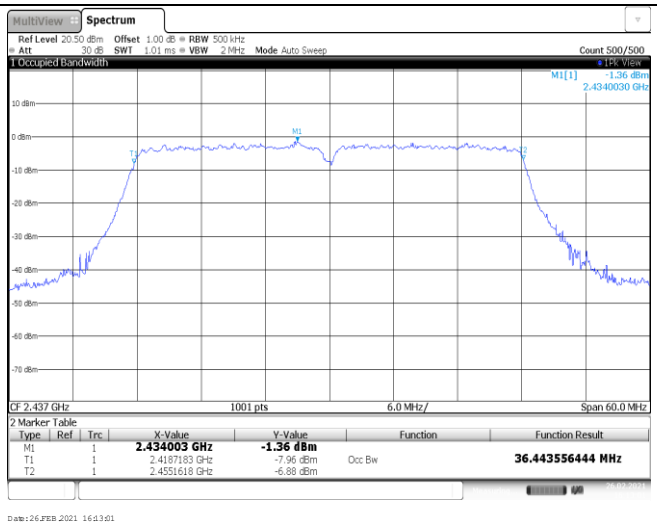
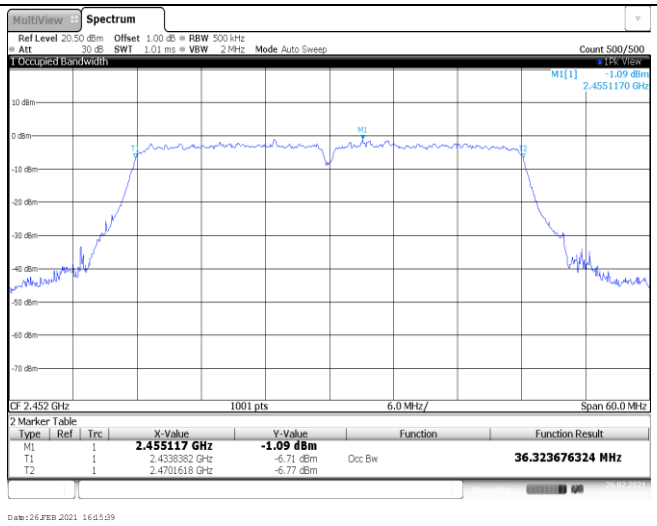
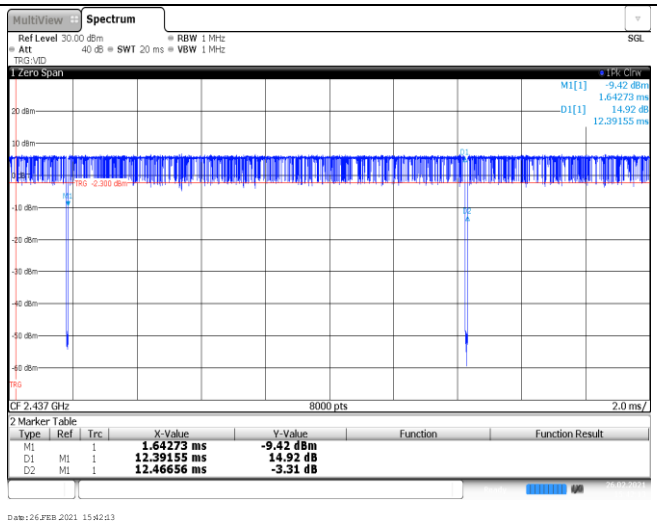
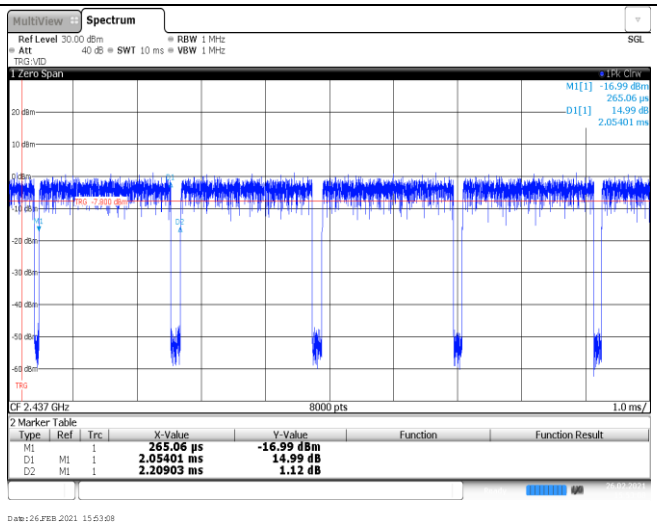
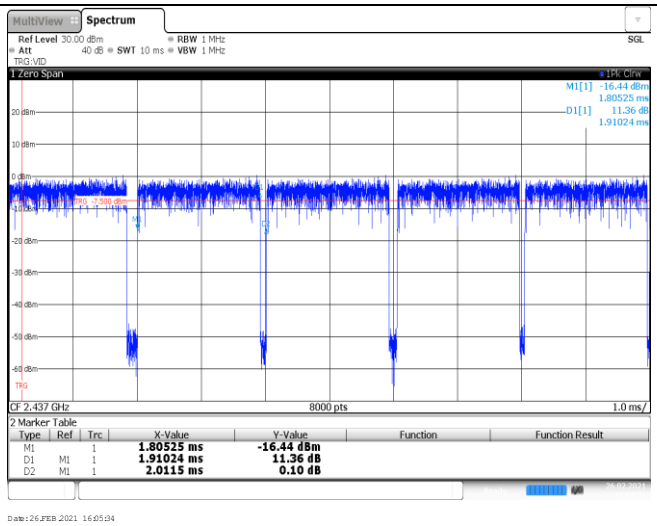
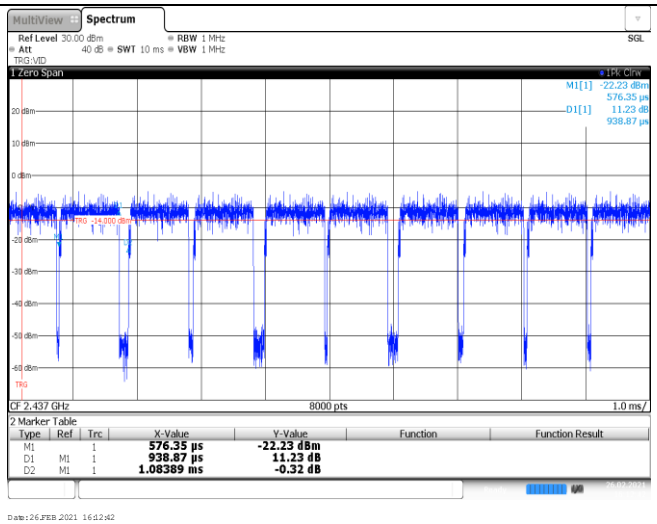
CH03	
CH06	
CH09	

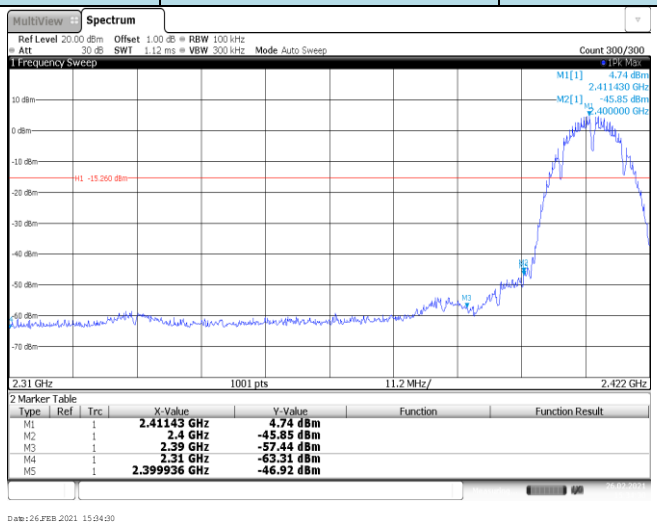
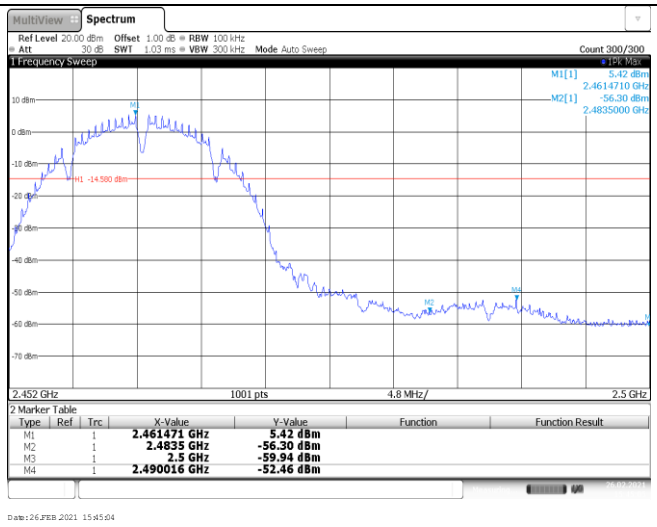
Appendix E：Duty Cycle

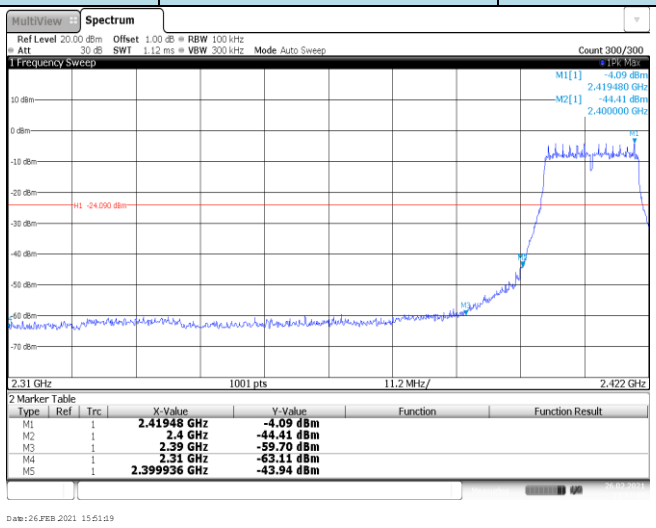
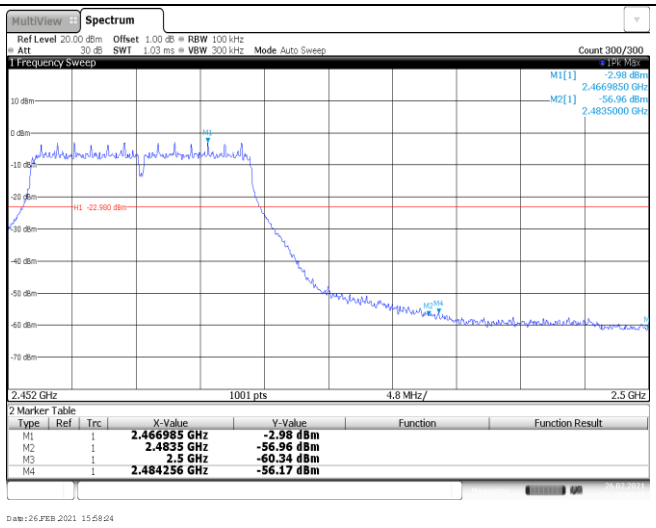
Modulation Type	Test Frequency（MHz）	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
11b	2437	12.39	12.47	99.4%	0.1
11g	2437	2.05	2.21	92.8%	0.5
11n20	2437	1.91	2.01	95.0%	0.5
11n40	2437	0.94	1.08	87.0%	1.1

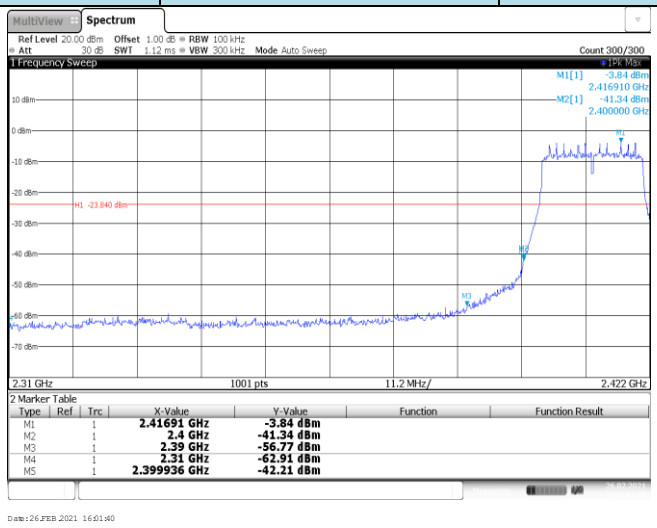
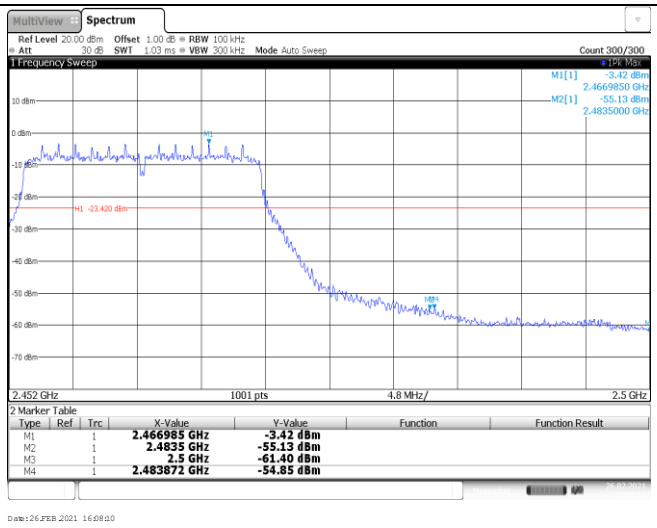
11b	
11g	

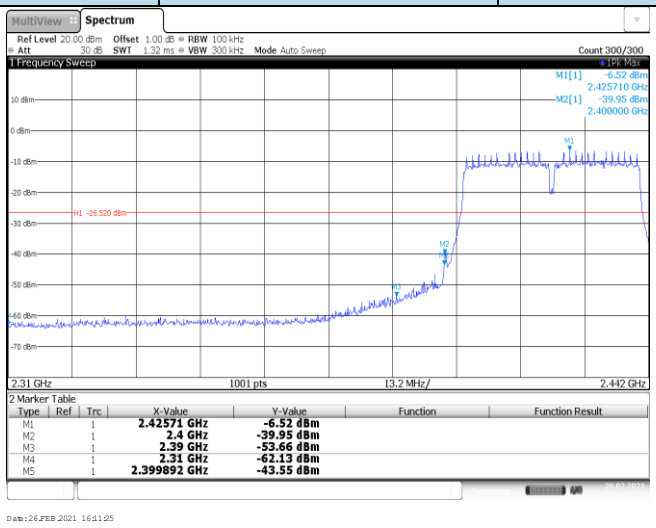
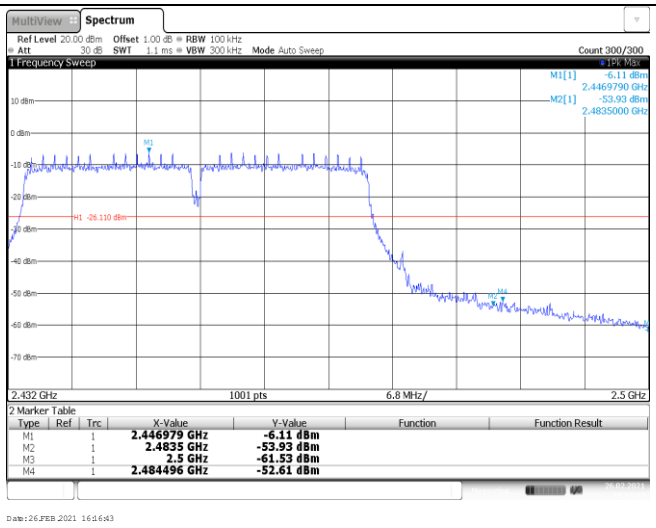
11n20	 MultiView Spectrum Ref Level 30.00 dBm RBW 1 MHz Att 40 dB SWT 10 ms VBW 1 MHz TRG:VID 1 Zero Span 1Pk Clrw M1[1] -16.44 dBm 1.80525 ms D1[1] 11.36 dB 1.91024 ms CF 2.437 GHz 8000 pts 1.0 ms/ 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 1.80525 ms -16.44 dBm D1 M1 1 1.91024 ms 11.36 dB D2 M1 1 2.0115 ms 0.10 dB Date:26.FEB.2021 16:05:34
11n40	 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] -22.23 dBm 576.35 µs D1[1] 11.23 dB 938.87 µs CF 2.437 GHz 8000 pts 1.0 ms/ 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 576.35 µs -22.23 dBm D1 M1 1 938.87 µs 11.23 dB D2 M1 1 1.08389 ms -0.32 dB Date:26.FEB.2021 16:12:42

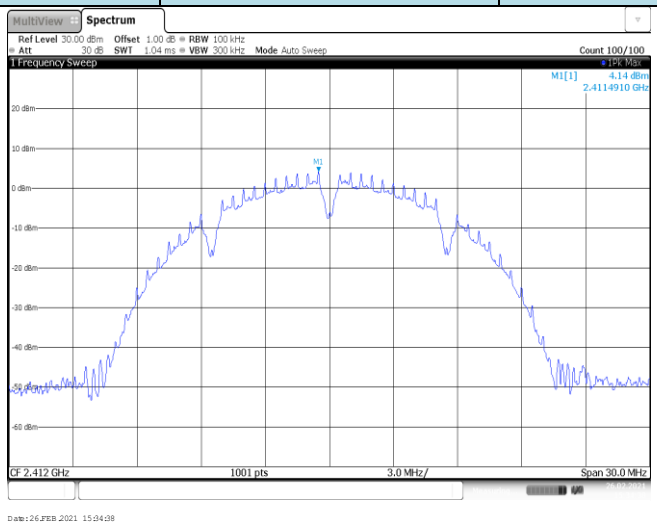
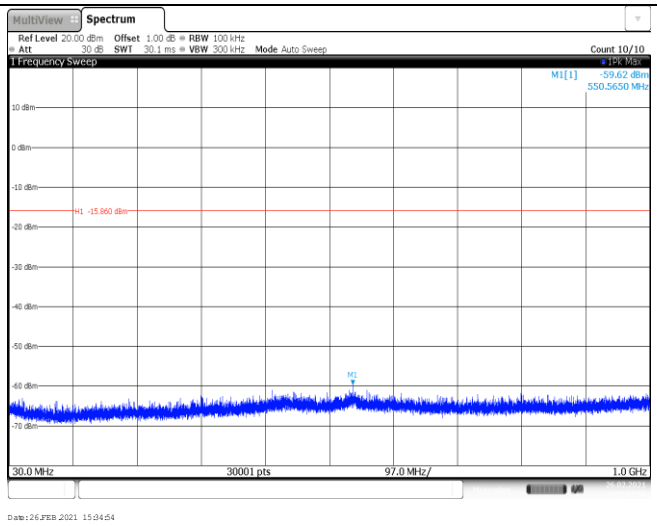
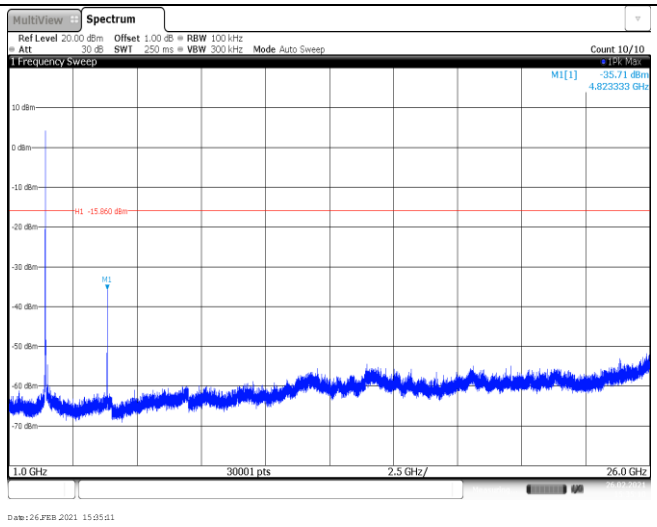
Appendix F：Band edge and Spurious Emissions (conducted)

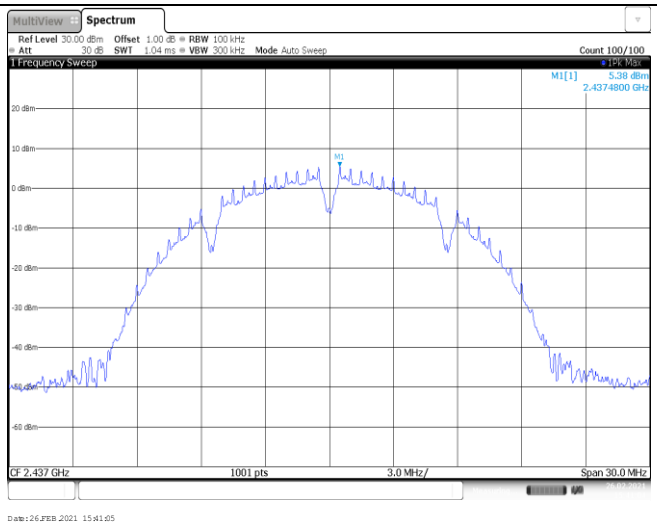
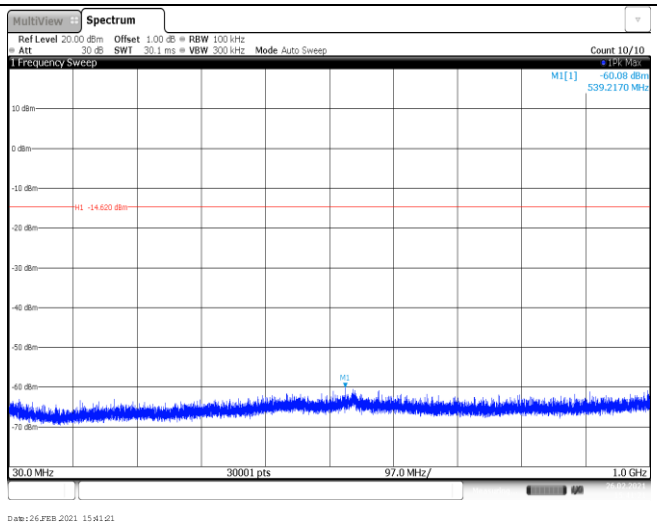
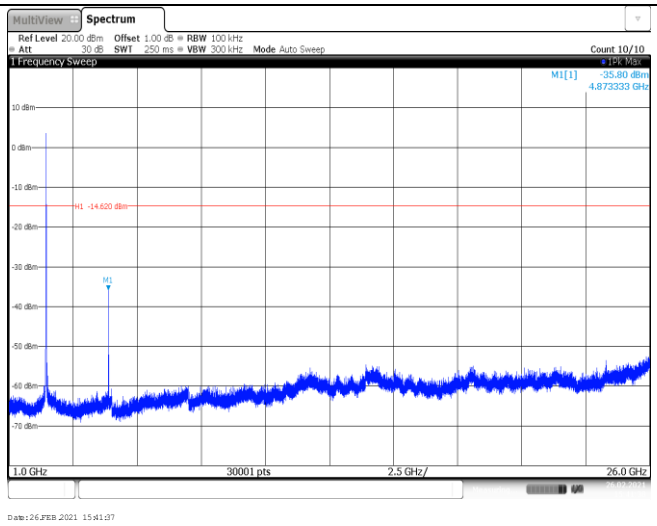
Test Item:	Bandedge	Type:	802.11 b
CH01			
CH11			

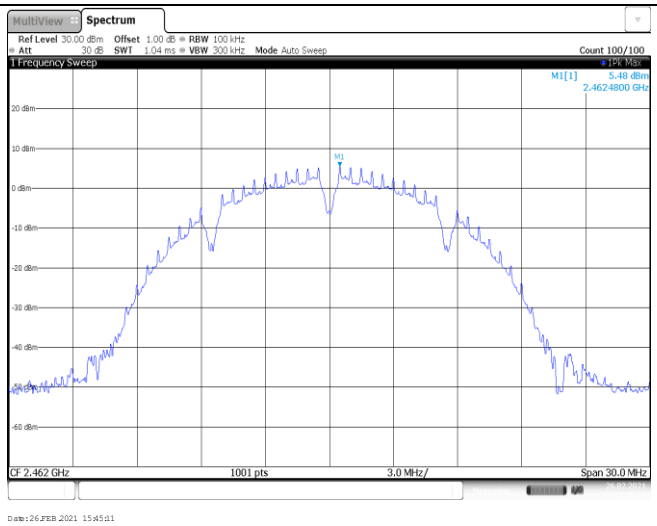
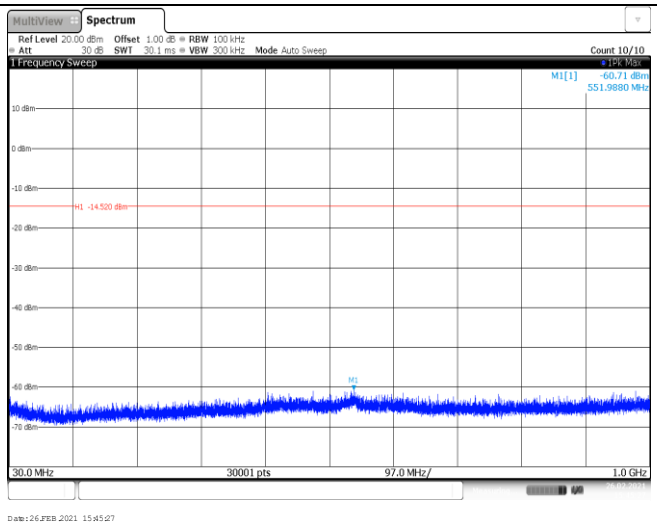
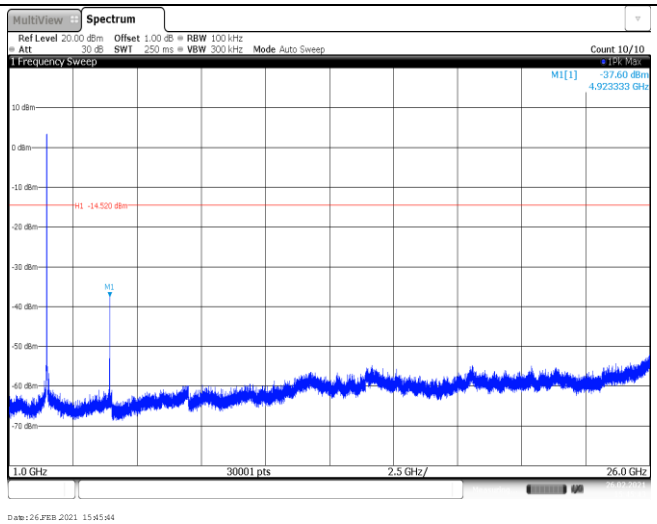
Test Item:	Bandedge	Type:	802.11 g
CH01			
CH11			

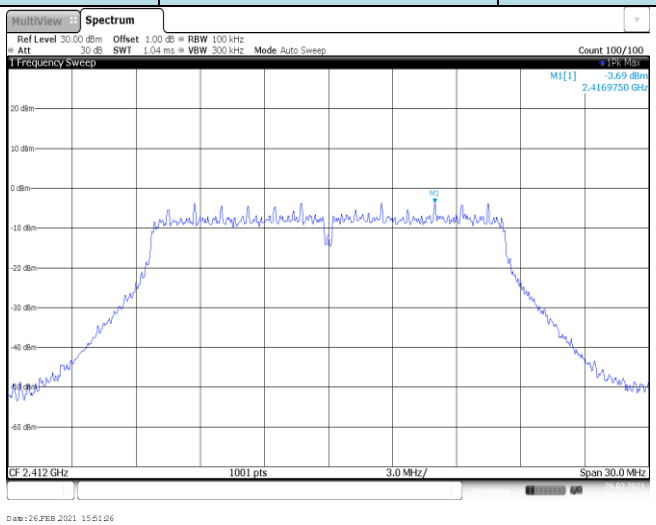
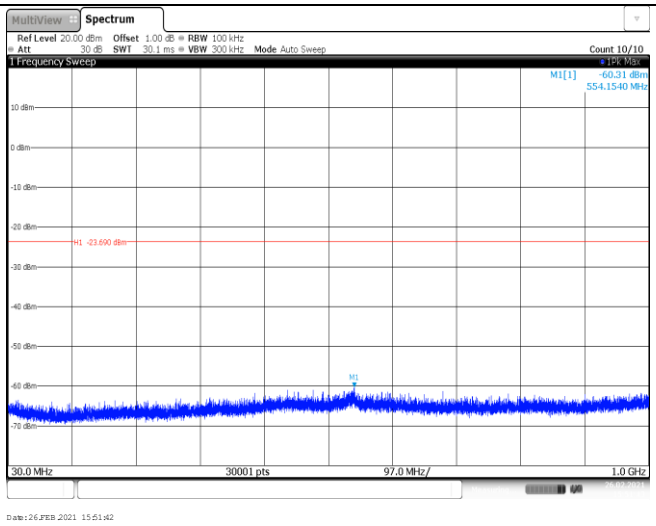
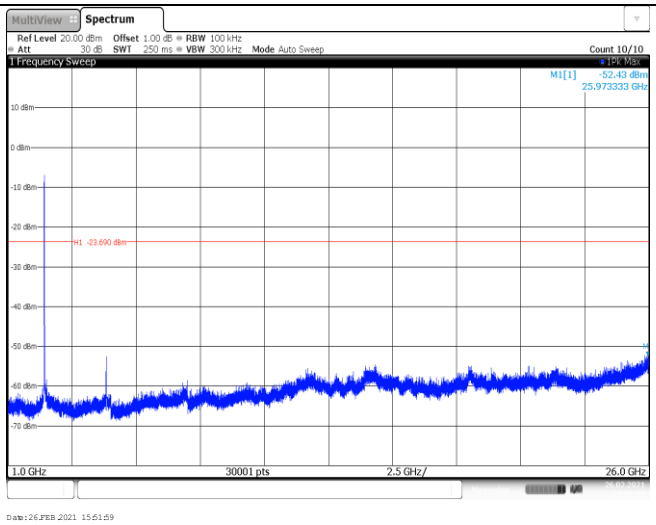
Test Item:	Bandedge	Type:	802.11 n(HT20)
CH01			
CH11			

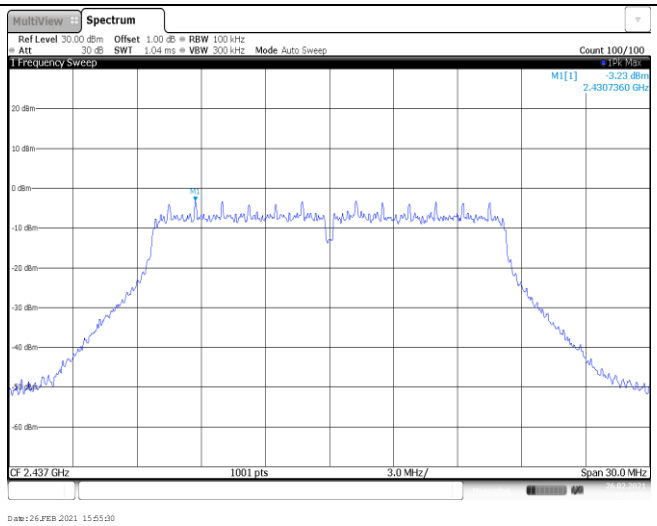
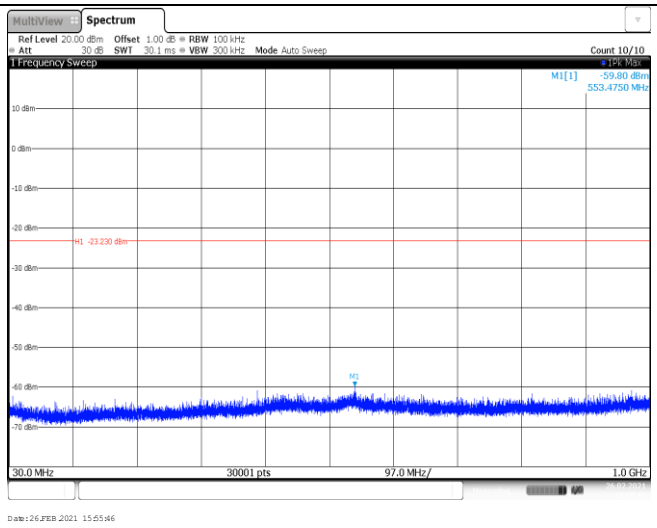
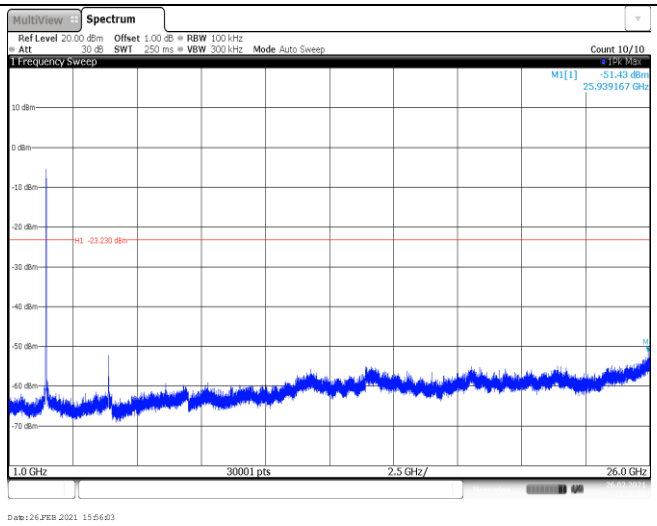
Test Item:	Bandedge	Type:	802.11 n(HT40)
CH03			
CH09			

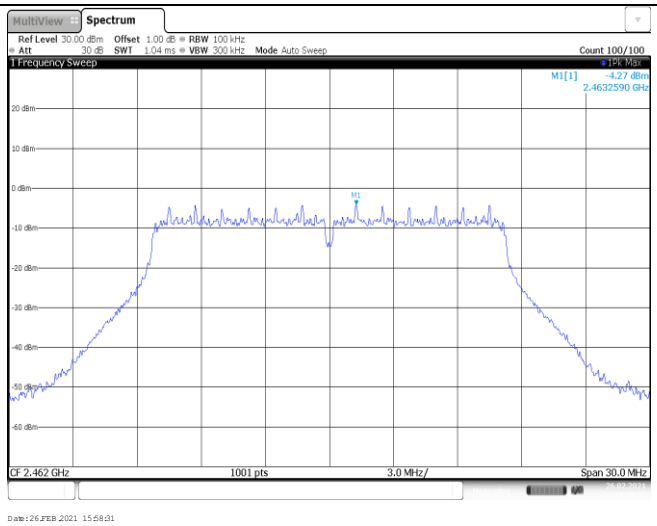
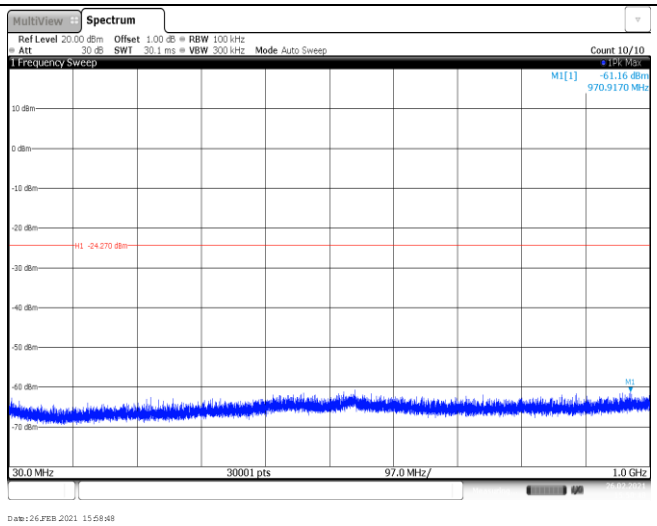
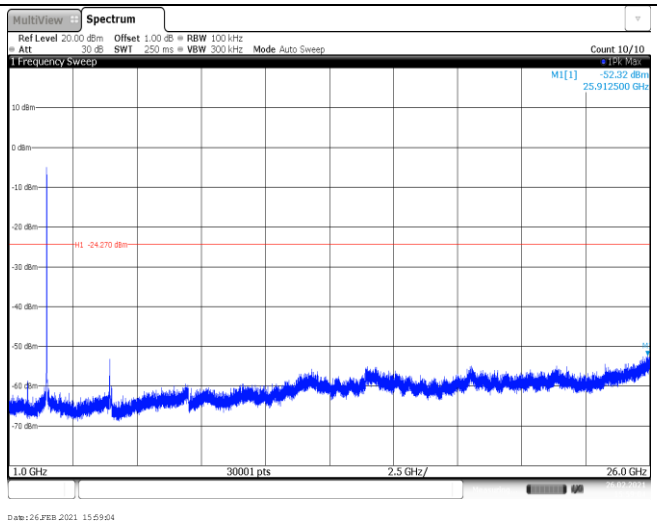
Test Item:	SE	Type:	802.11b
CH01 Reference level	
CH01 30MHz~1000MHz	
CH01 1GHz~26GHz	

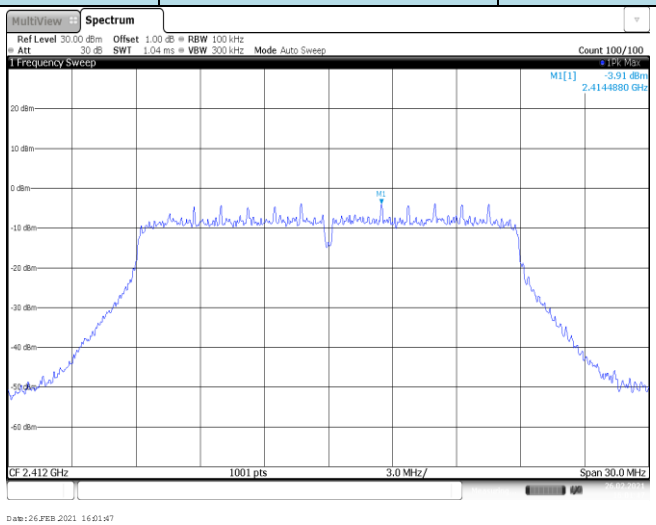
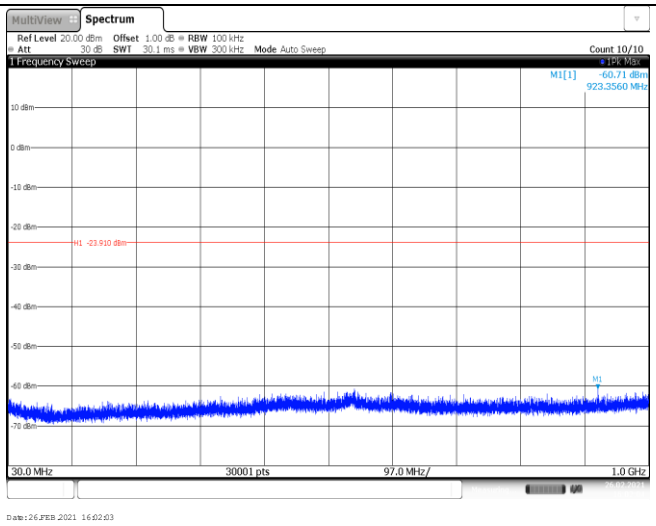
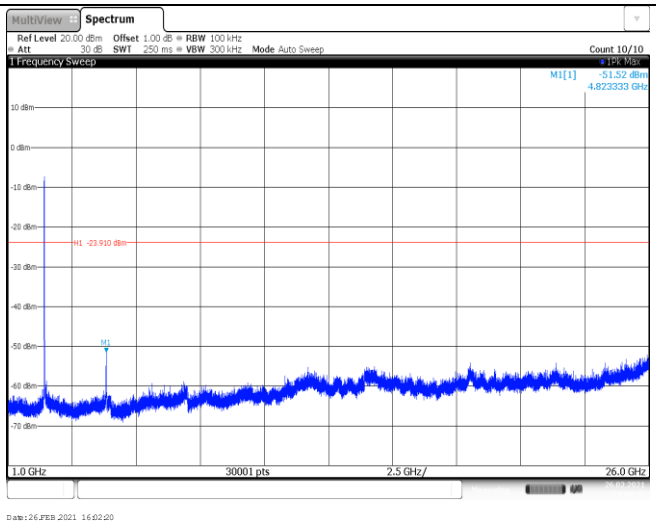
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

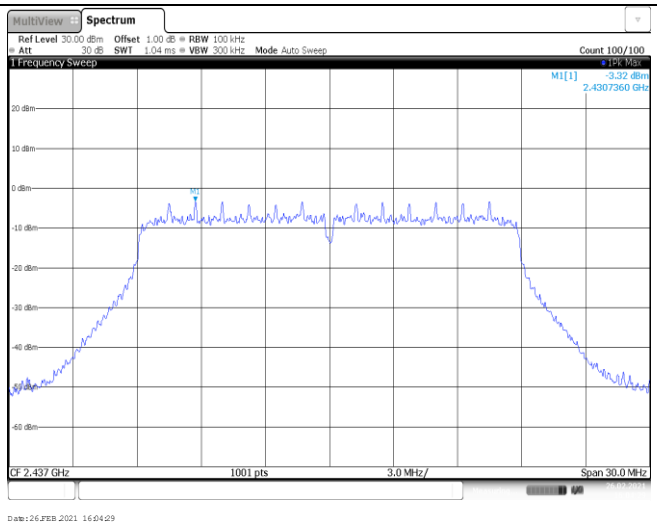
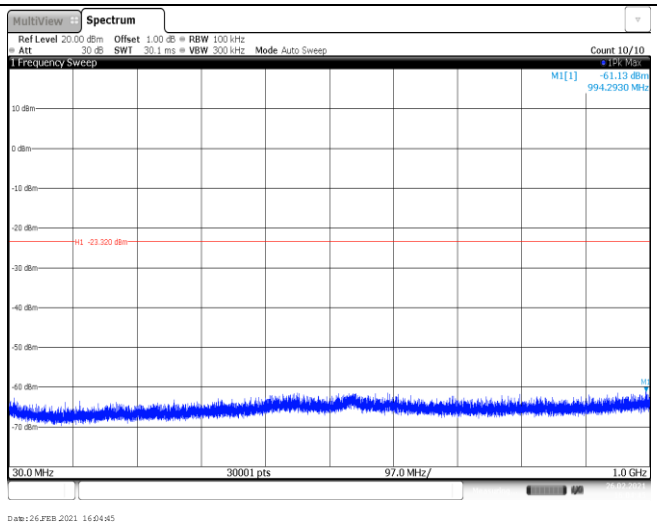
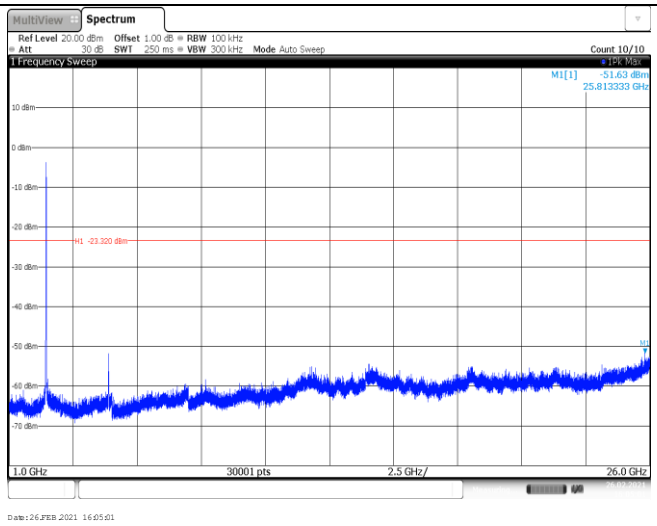
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

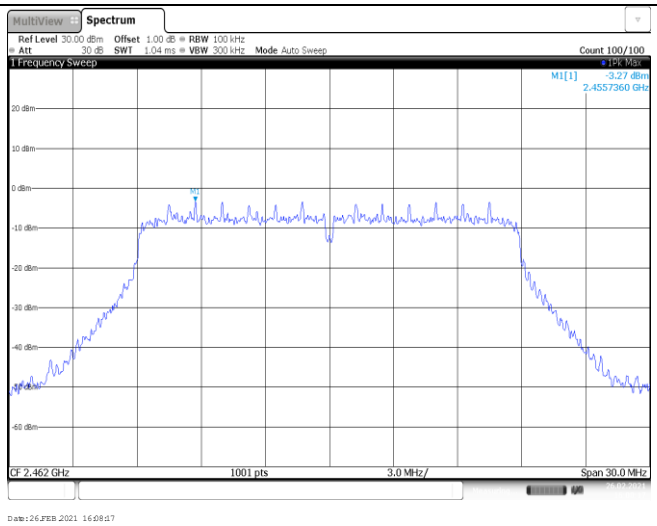
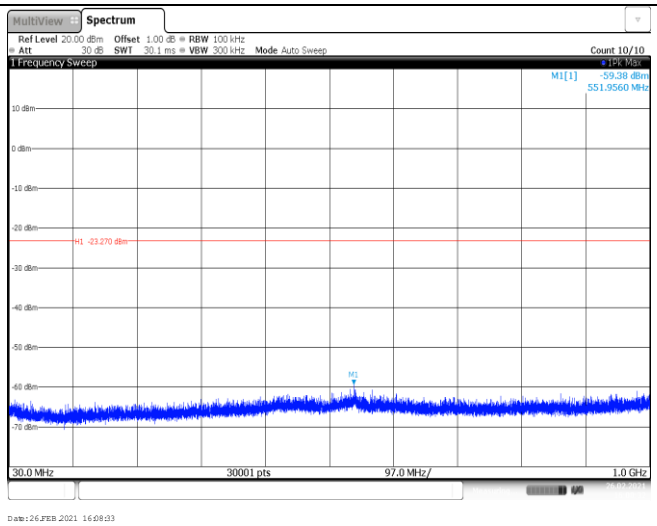
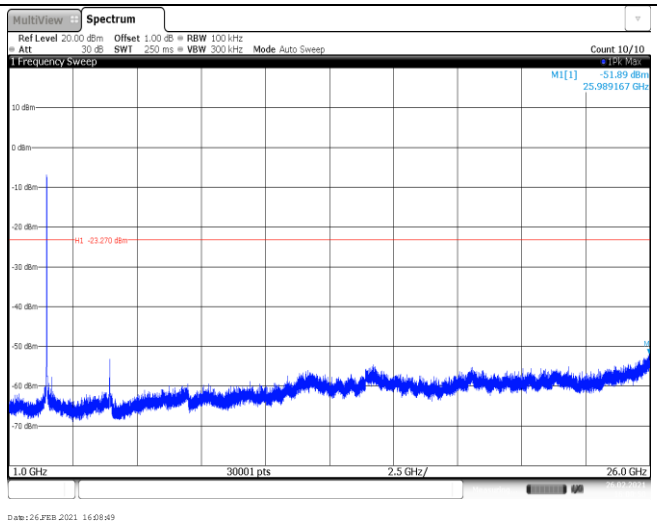
Test Item:	SE	Type:	802.11g
CH01 Reference level	
CH01 30MHz~1000MHz	
CH01 1GHz~26GHz	

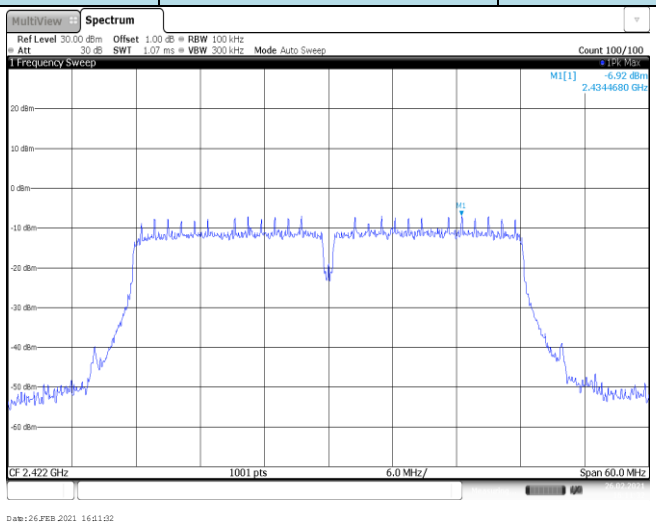
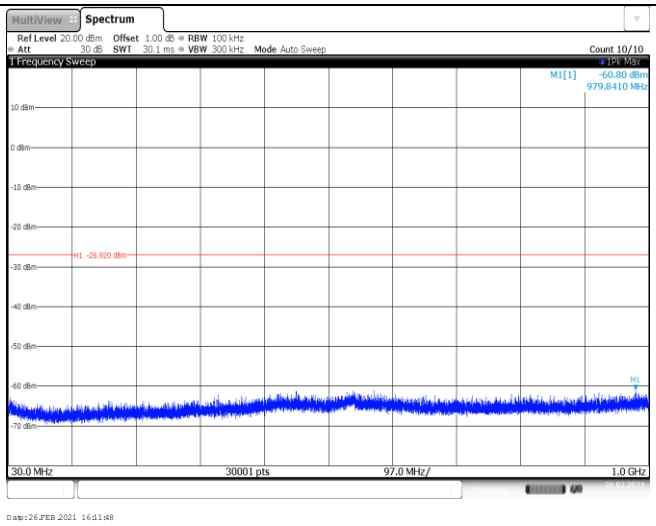
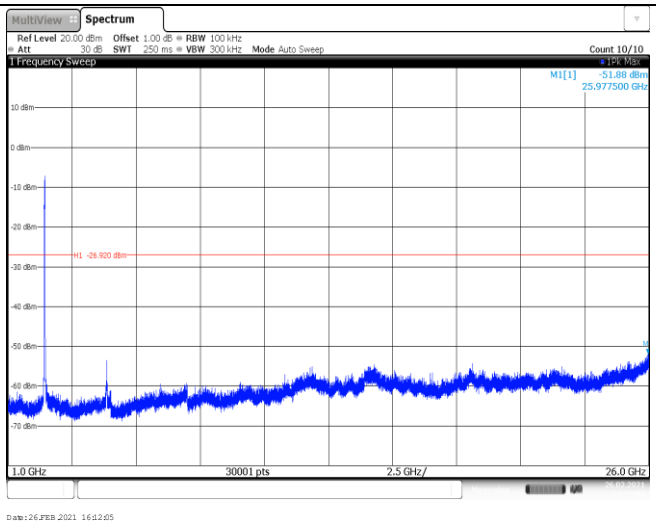
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

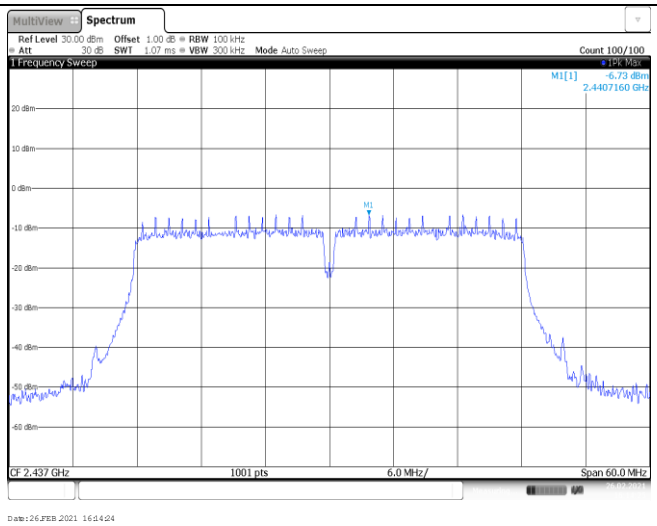
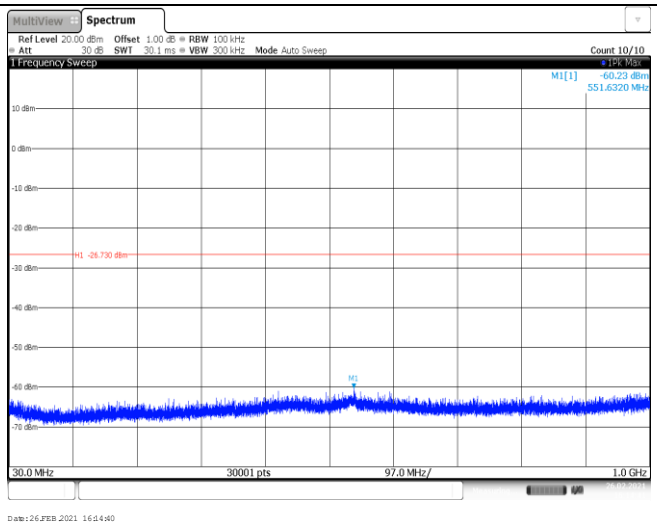
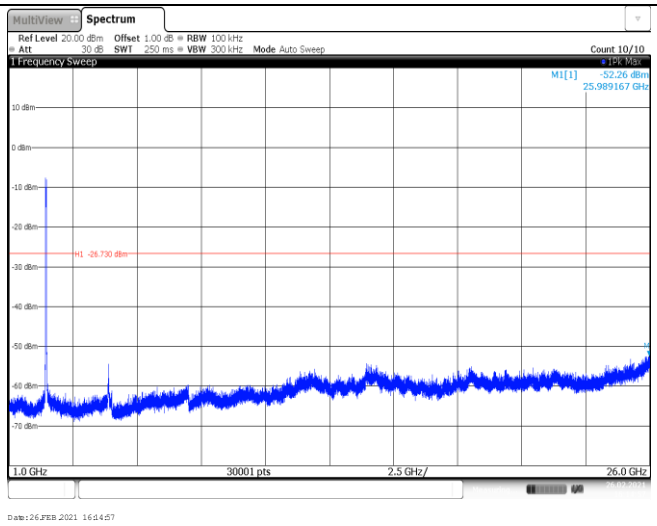
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

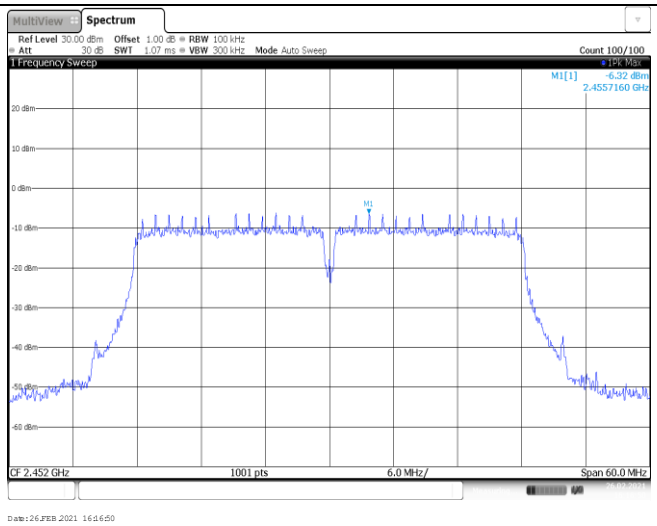
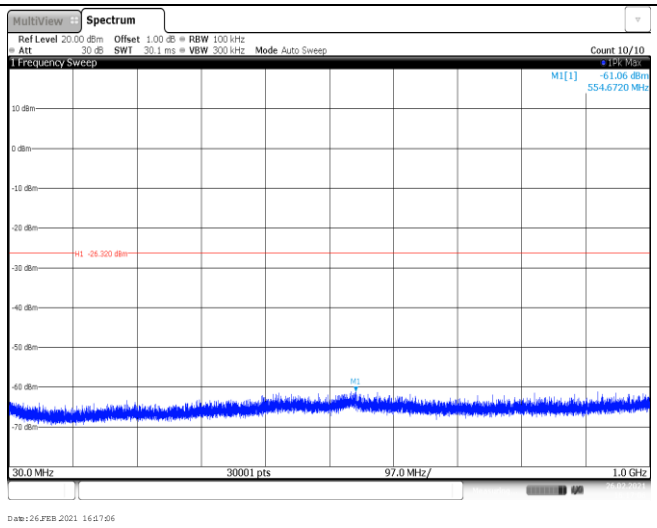
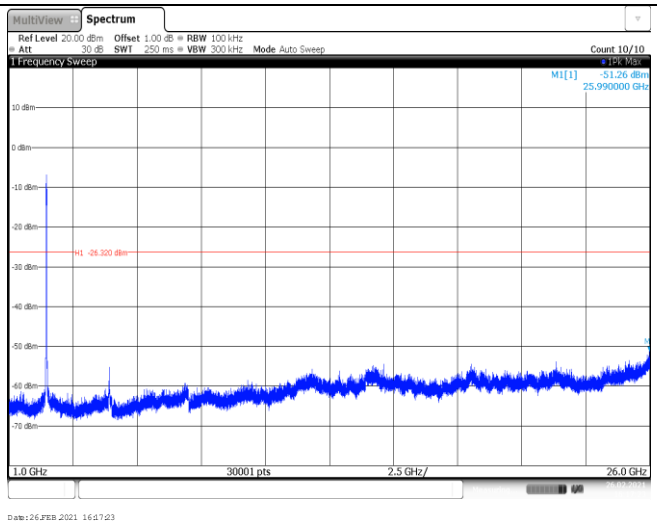
Test Item:	SE	Type:	802.11n(HT20)
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

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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