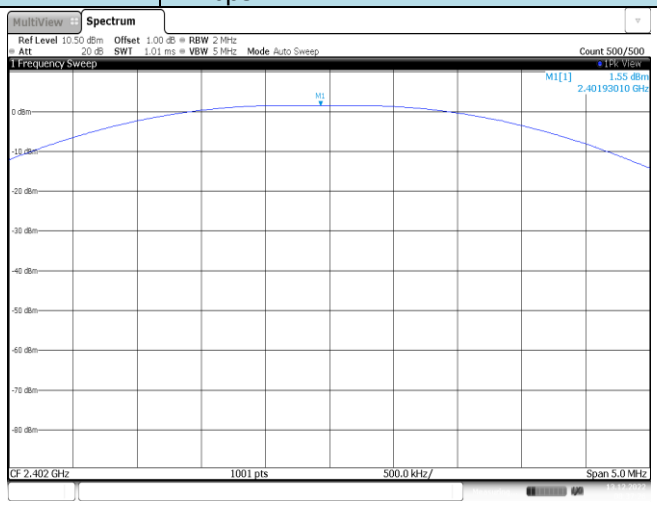
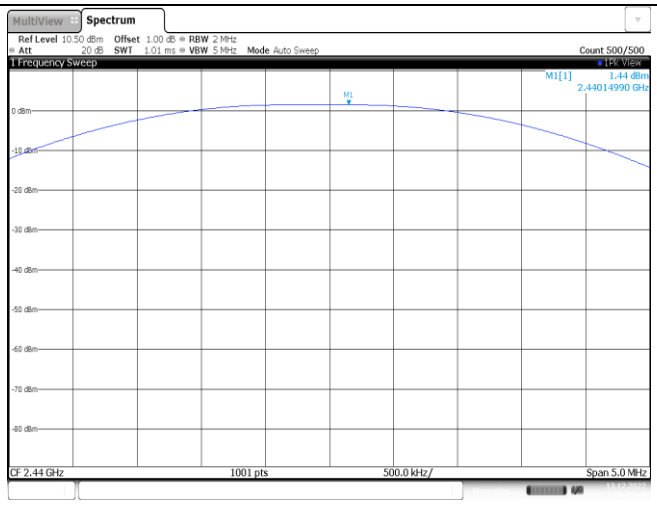
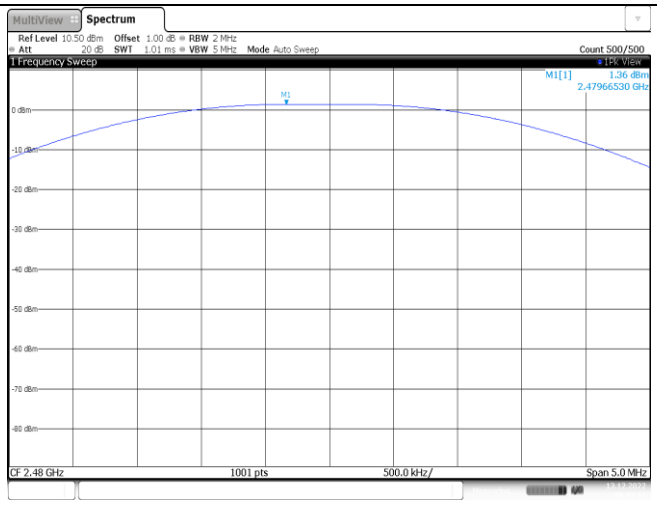
APPENDIX REPORT

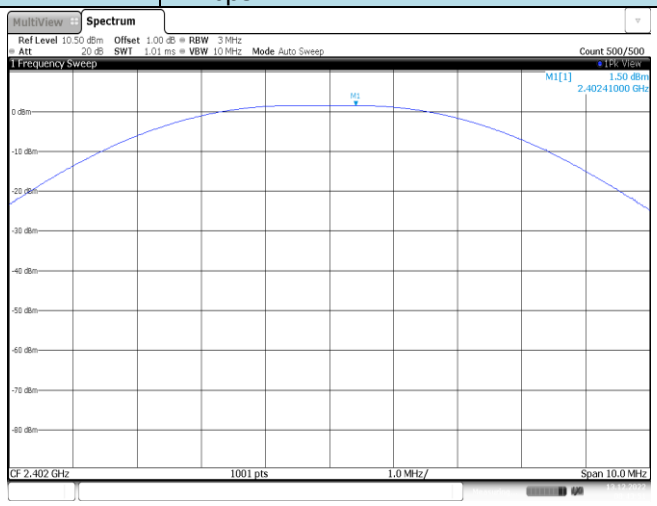
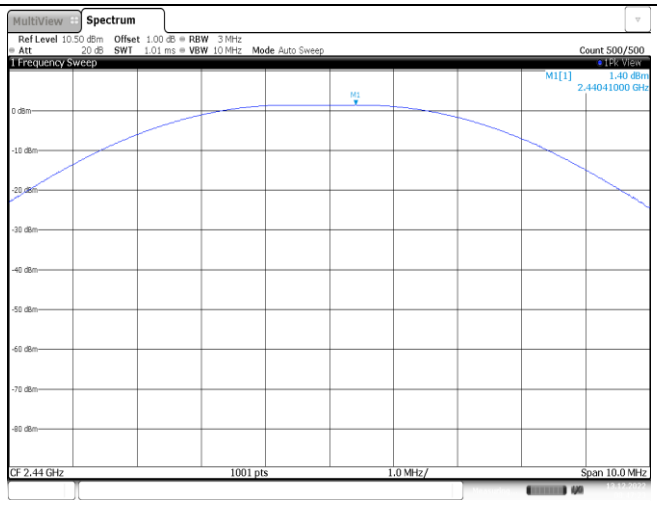
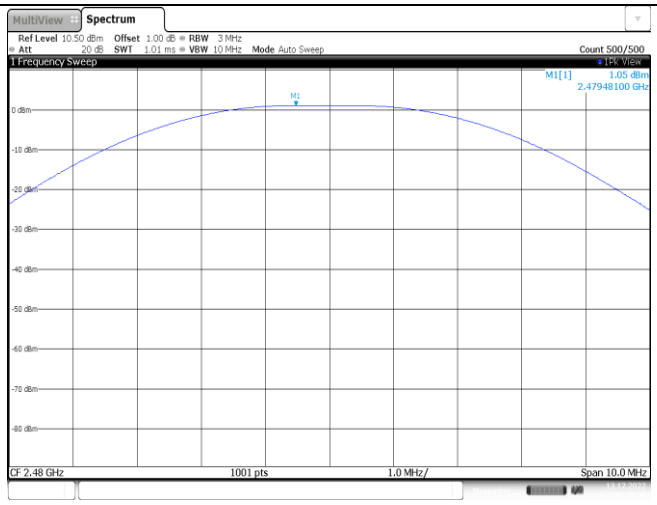
Project No.	SHT2210002307EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT22100023004	Model No.	HC-03U
Start test date	2022-12-13	Finish date	2022-12-13
Temperature	24.8℃	Humidity	32%
Test Engineer	Xiaoxiao Li	Auditor	Xiaodong Zhao

Appendix clause	Test item	Result
A	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：Peak Output Power

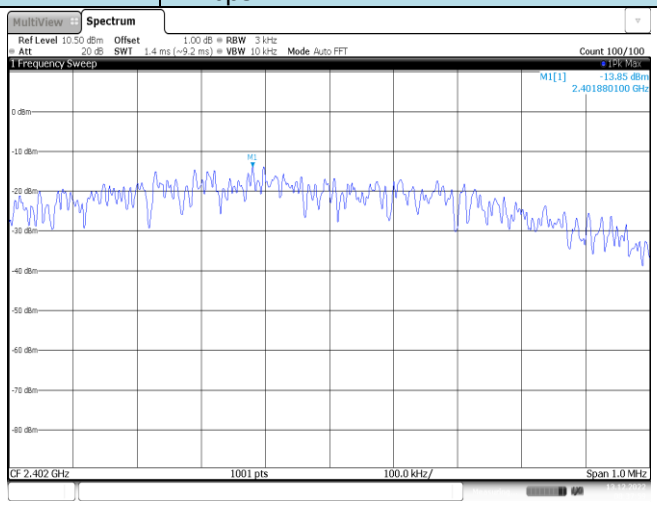
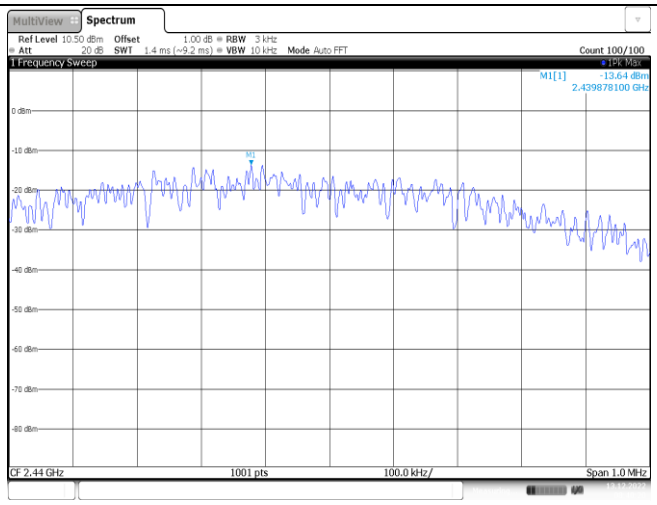
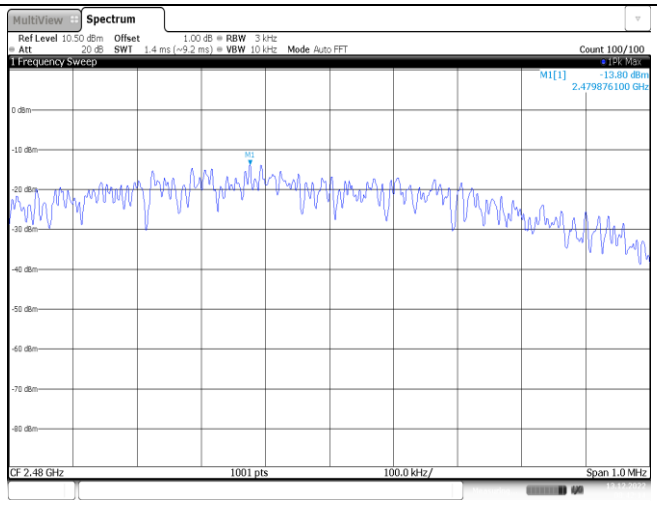
Test rate	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
1Mbps	00	1.55	1.53	≤ 30.00	Pass
	19	1.44	1.43		
	39	1.36	1.34		
2Mbps	00	1.50	1.49	≤ 30.00	Pass
	19	1.40	1.39		
	39	1.05	1.03		

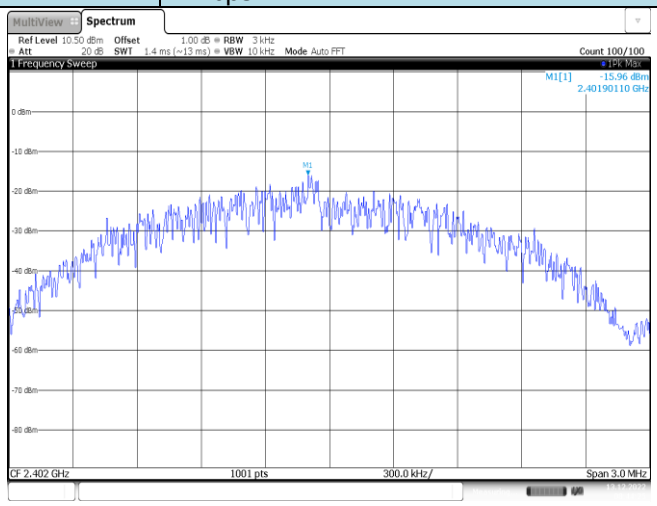
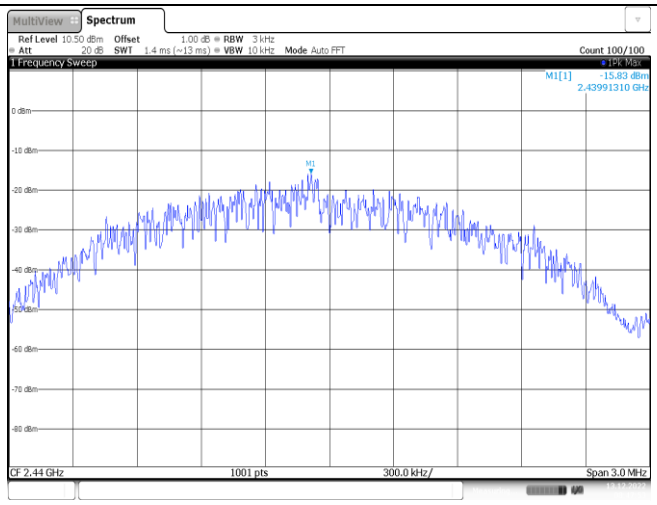
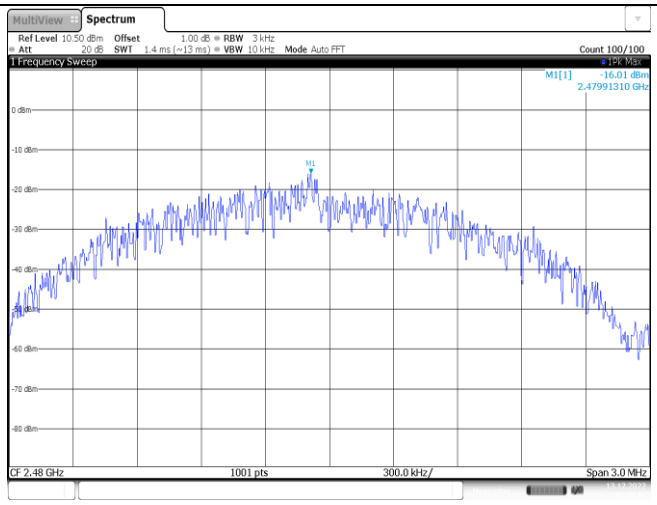
Test rate:	1Mbps
CH00	
CH19	
CH39	

Test rate:	2Mbps
CH00	
CH19	
CH39	

Appendix B：Power Spectral Density

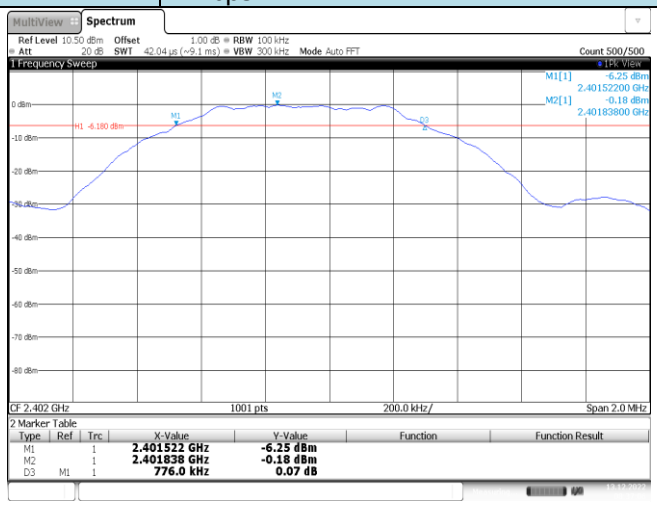
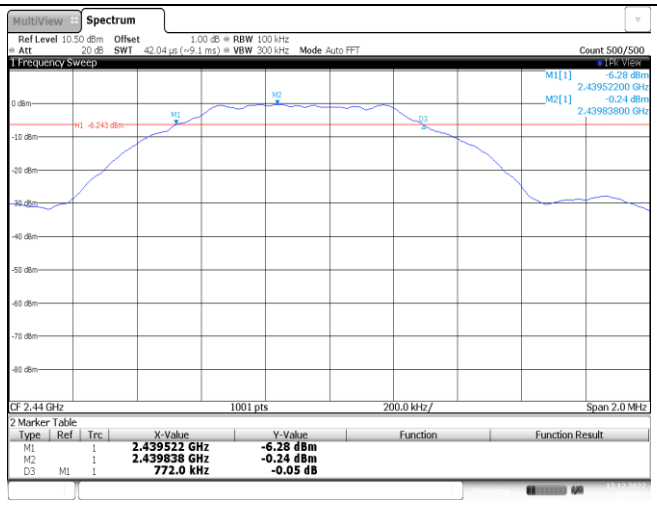
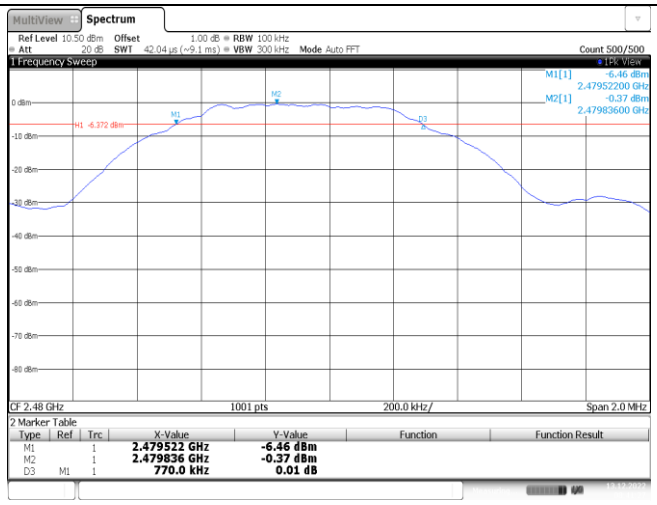
Test rate	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
1Mbps	00	-13.85	≤8.00	Pass
	19	-13.64		
	39	-13.80		
2Mbps	00	-15.96	≤8.00	Pass
	19	-15.83		
	39	-16.01		

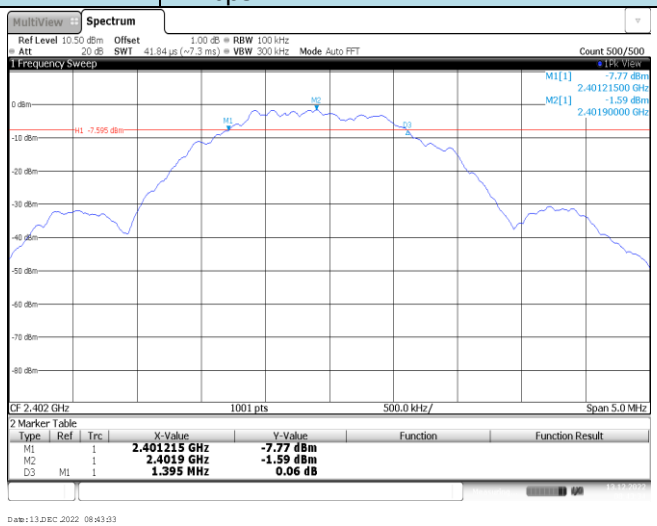
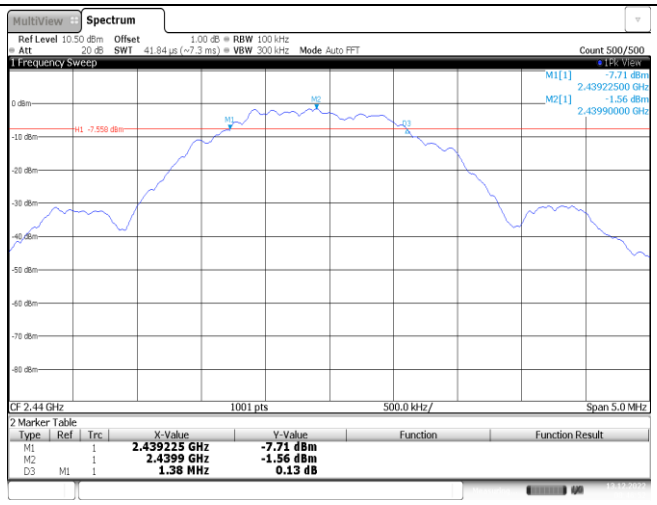
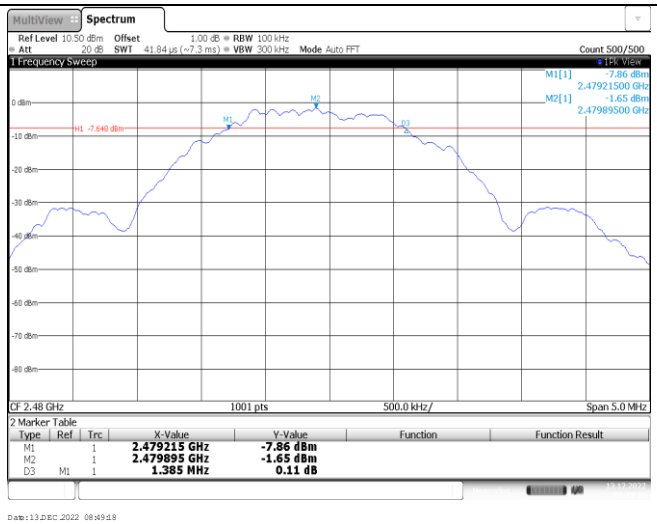
Test rate:	1Mbps
CH00	
CH19	
CH39	

Test rate:	2Mbps
CH00	
CH19	
CH39	

Appendix C：6dB bandwidth

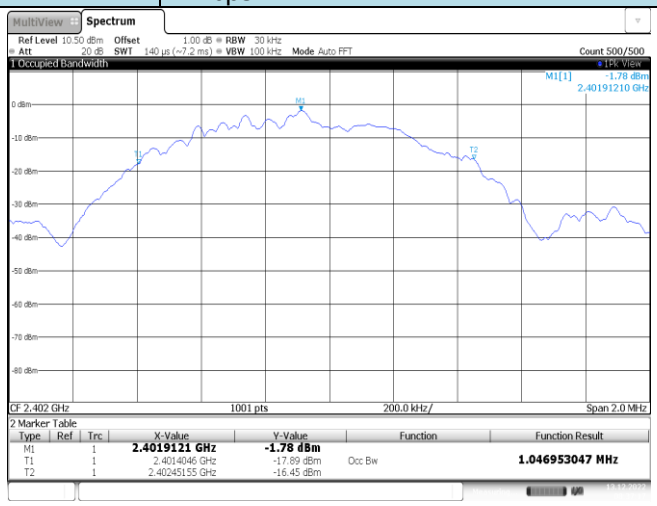
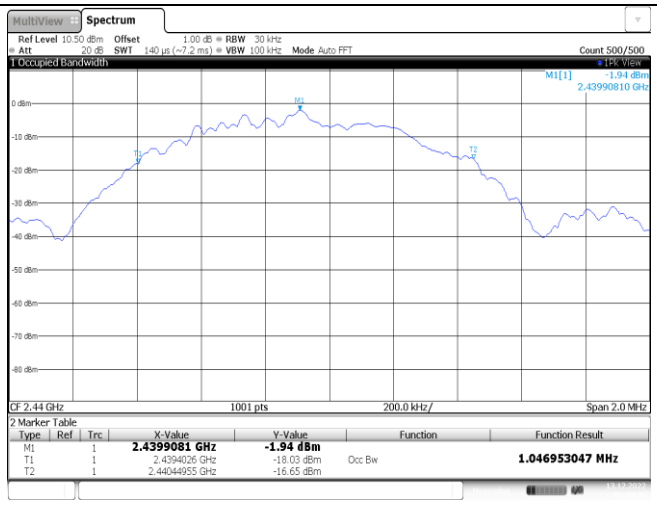
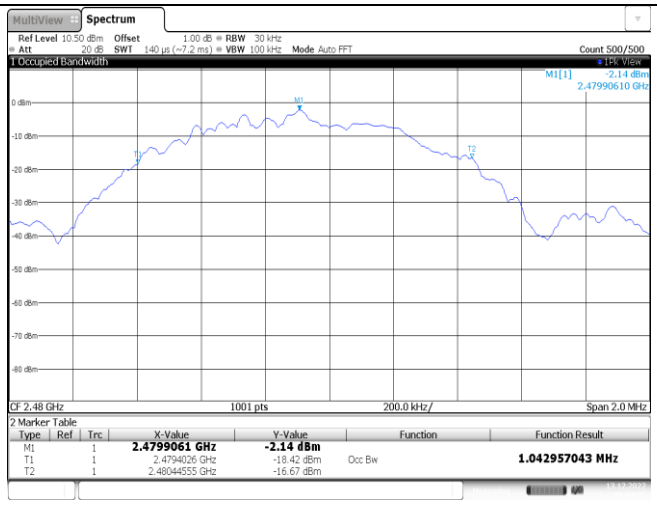
Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
1Mbps	00	776.00	≥500	Pass
	19	772.00		
	39	770.00		
2Mbps	00	1395.00	≥500	Pass
	19	1380.00		
	39	1385.00		

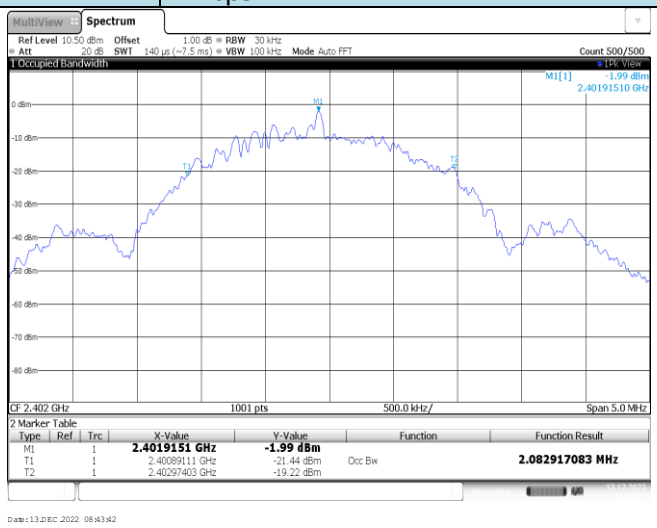
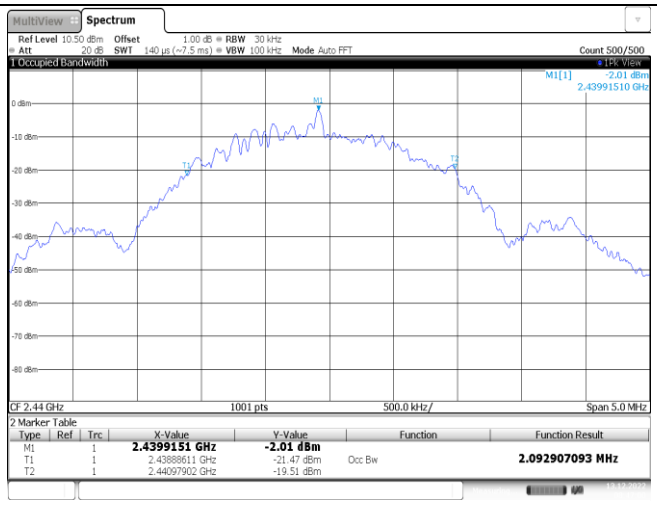
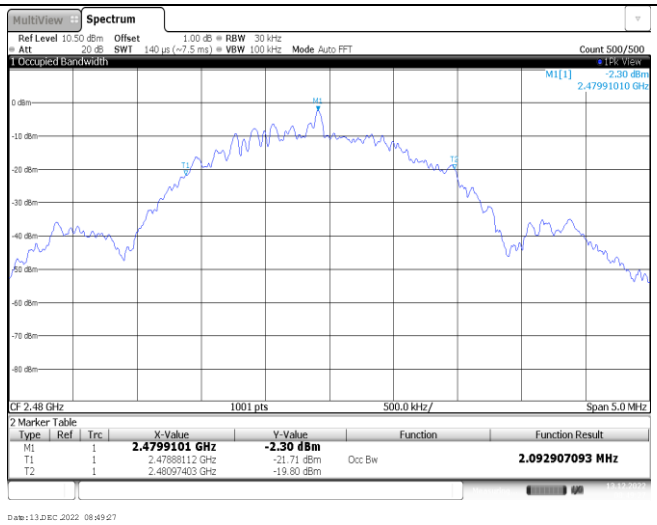
Test rate:	1Mbps
CH00	
CH19	
CH39	

Test rate:	2Mbps
CH00	
CH19	
CH39	

Appendix D：99% Occupied Bandwidth

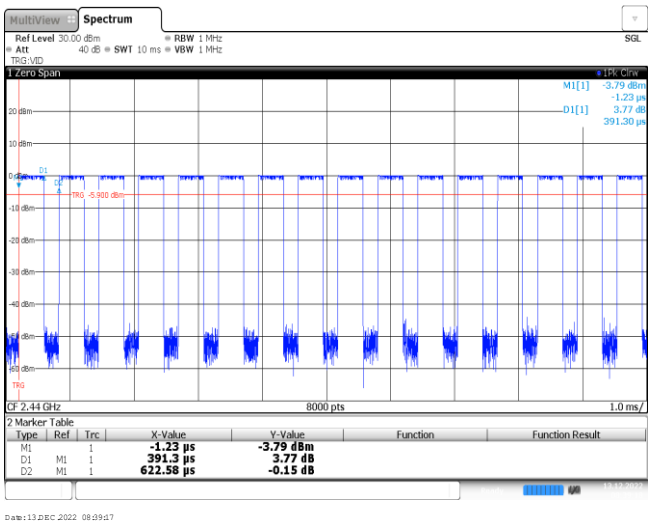
Test rate	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
1Mbps	00	1.05	-	Pass
	19	1.05		
	39	1.04		
2Mbps	00	2.08	-	Pass
	19	2.09		
	39	2.09		

Test rate:	1Mbps
CH00	
CH19	
CH39	

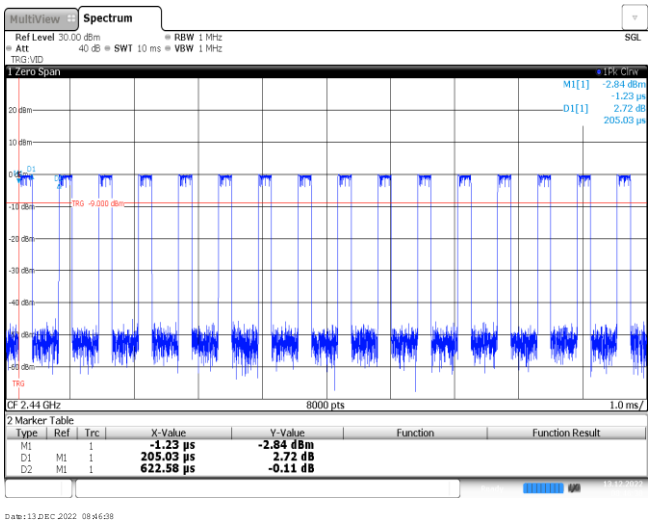
Test rate:	2Mbps
CH00	
CH19	
CH39	

Appendix E：Duty cycle

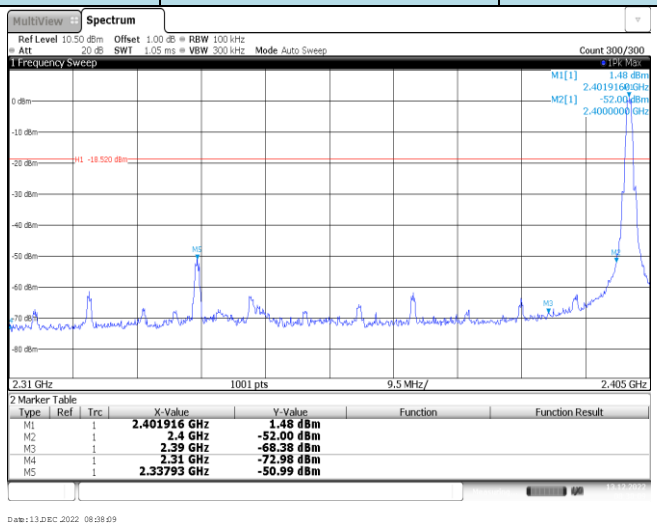
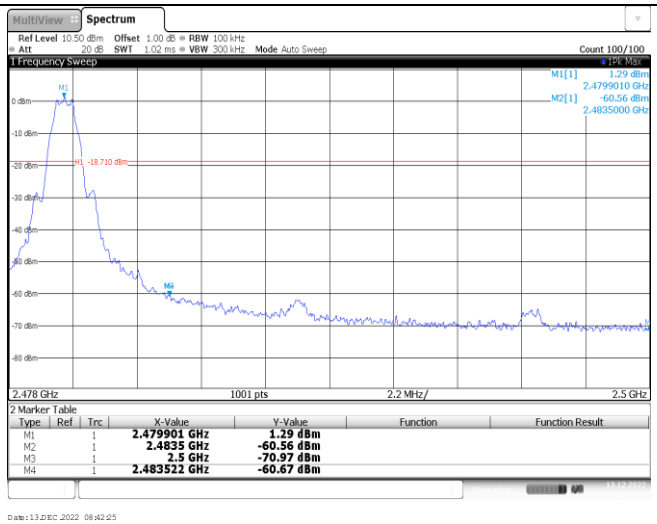
Test Rate:		1Mbps		
Test Frequency （MHz）	Ton time for single burst (ms)	Tperiod (ms)	Duty cycle	1/Ton time (kHz)
2440	0.39	0.62	62.9%	2.6

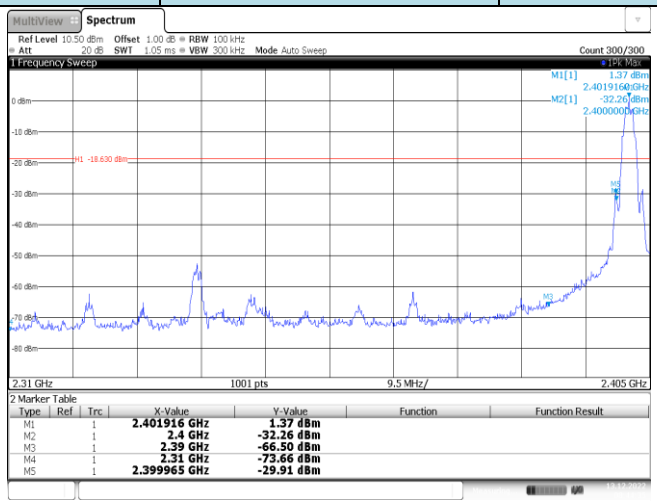
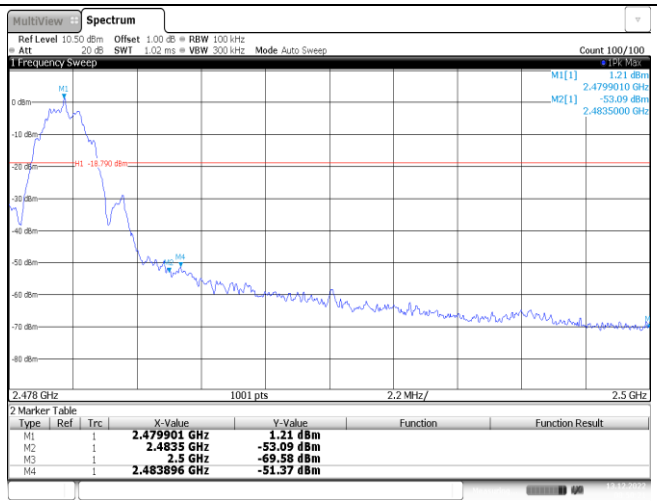


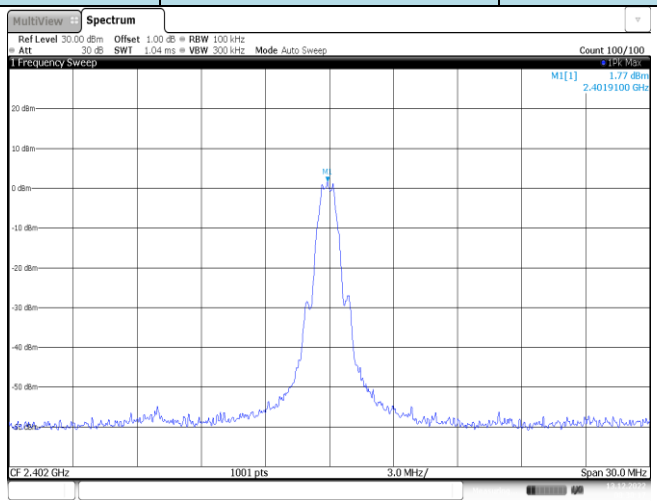
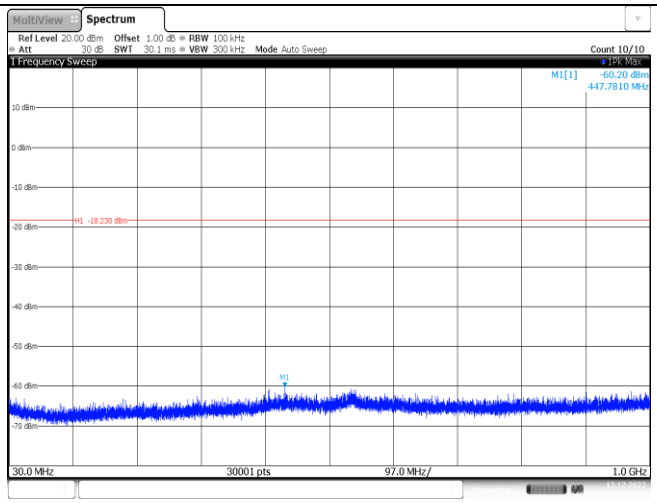
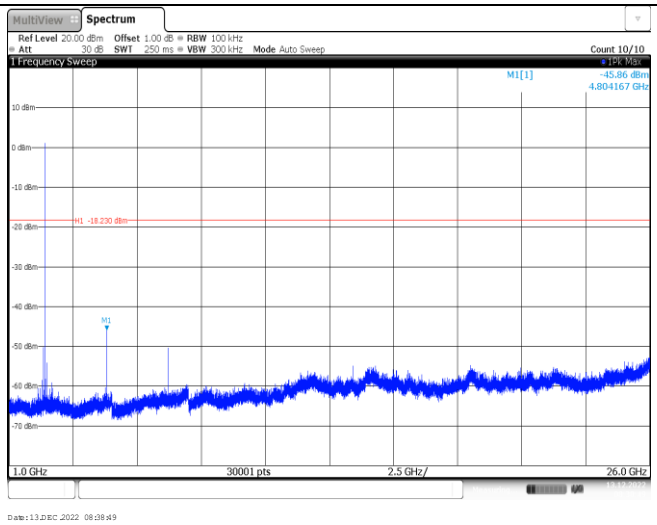
Test Rate:		2Mbps		
Test Frequency （MHz）	Ton time for single burst (ms)	Tperiod (ms)	Duty cycle	1/Ton time (kHz)
2440	0.21	0.62	33.9%	4.8

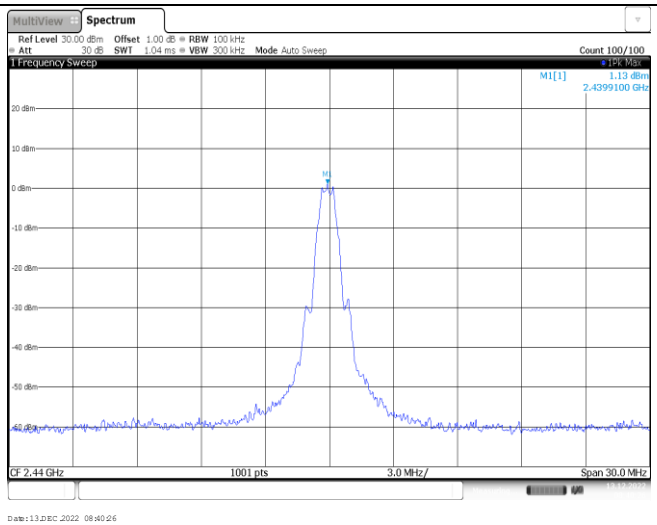
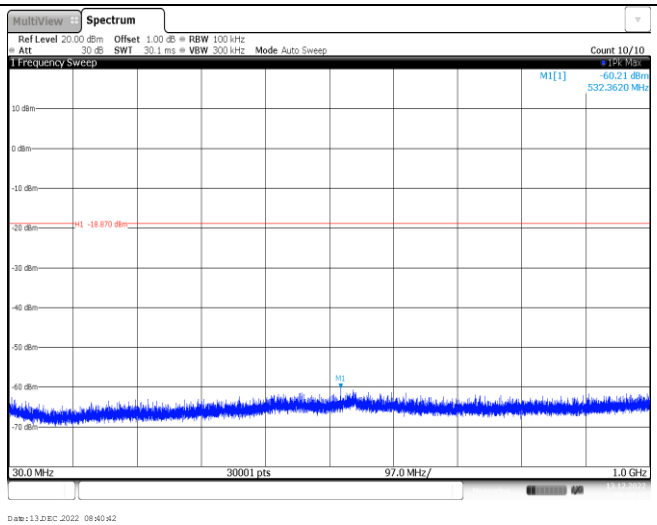
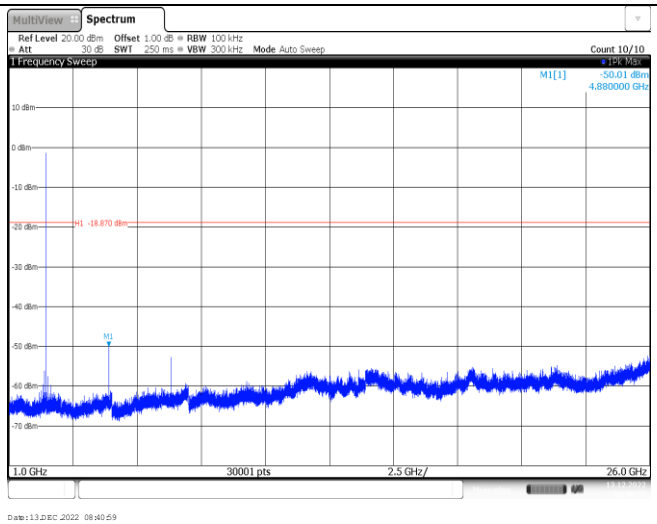


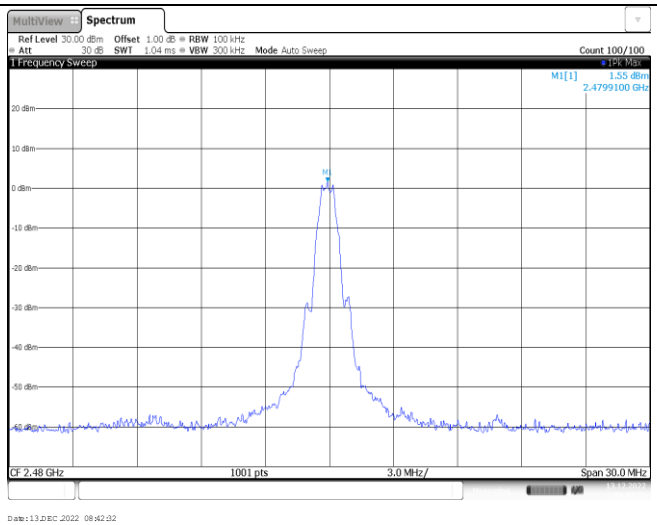
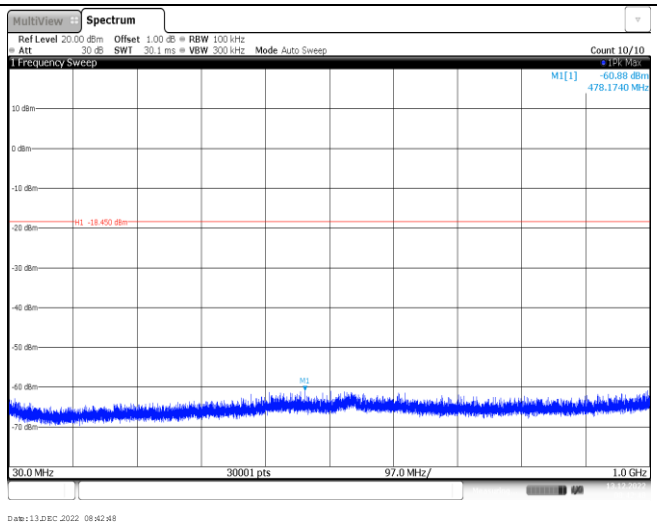
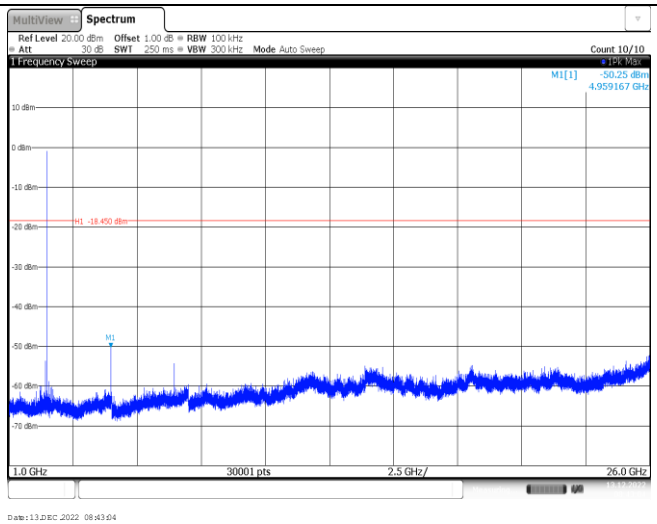
Appendix F：Band edge and Spurious Emissions (conducted)

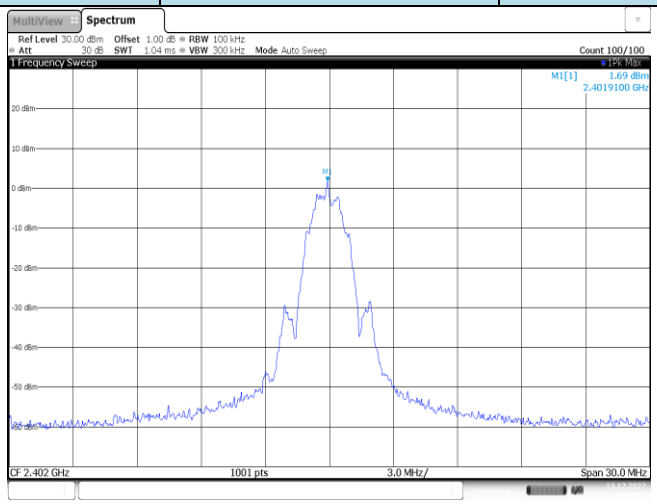
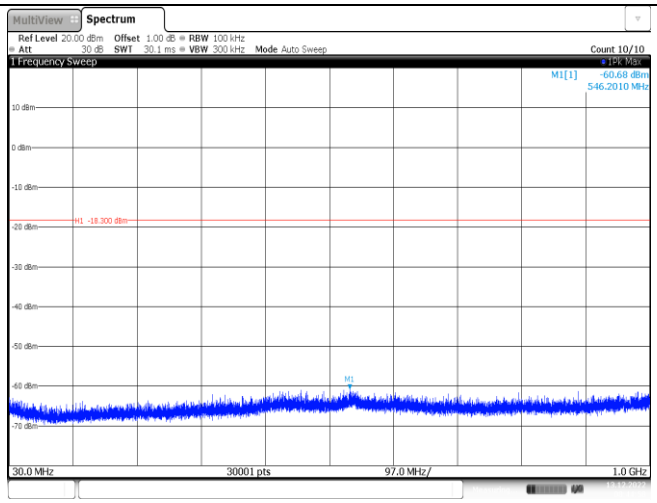
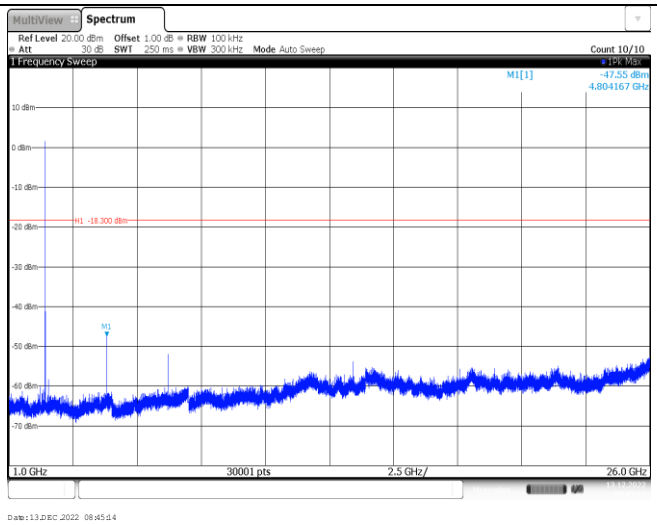
Test Item:	Band edge	Test Rate:	1Mbps
CH00			
CH39			

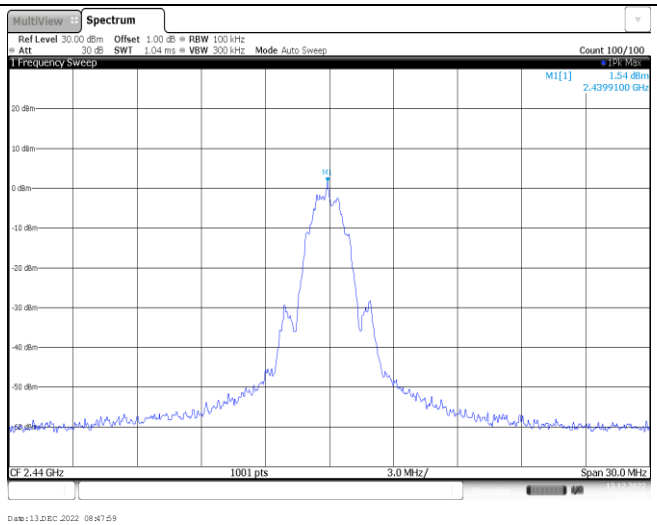
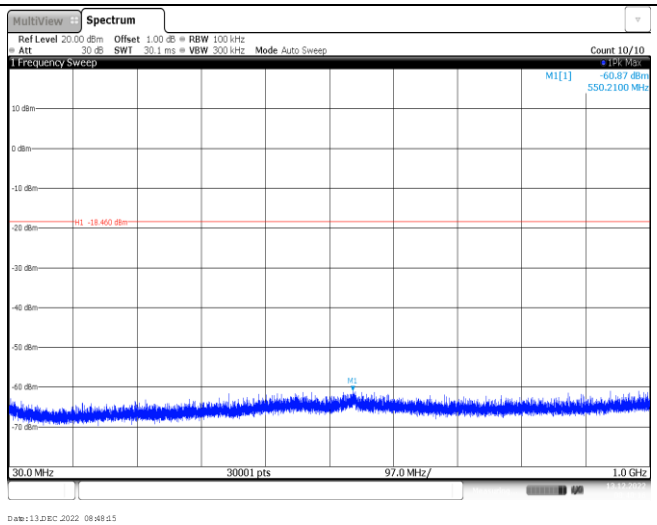
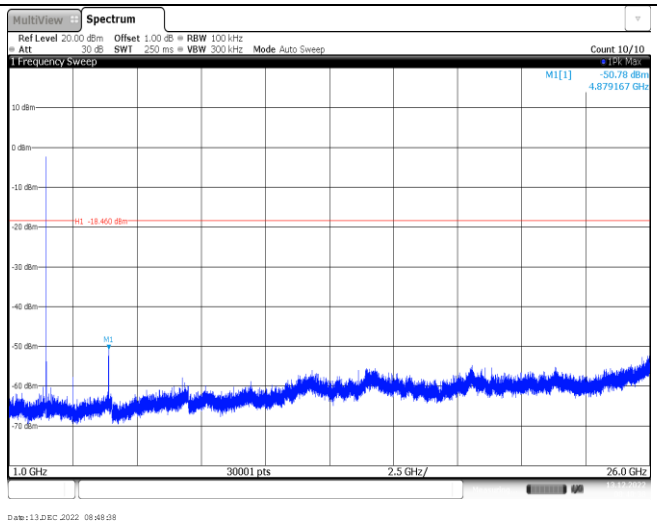
Test Item:	Band edge	Test Rate:	2Mbps
CH00			
CH39			

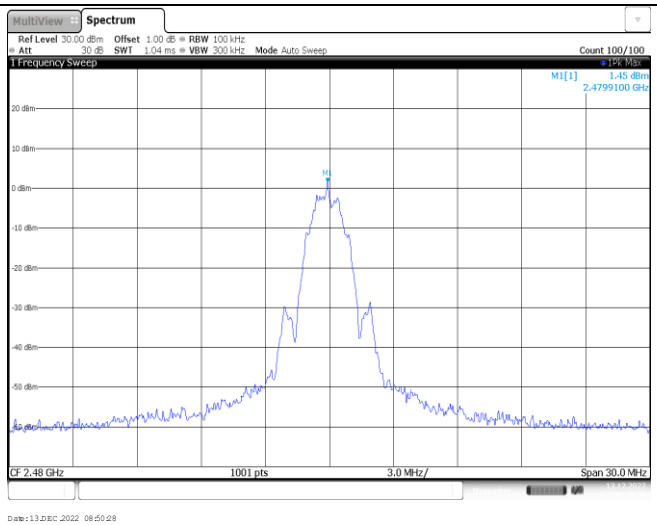
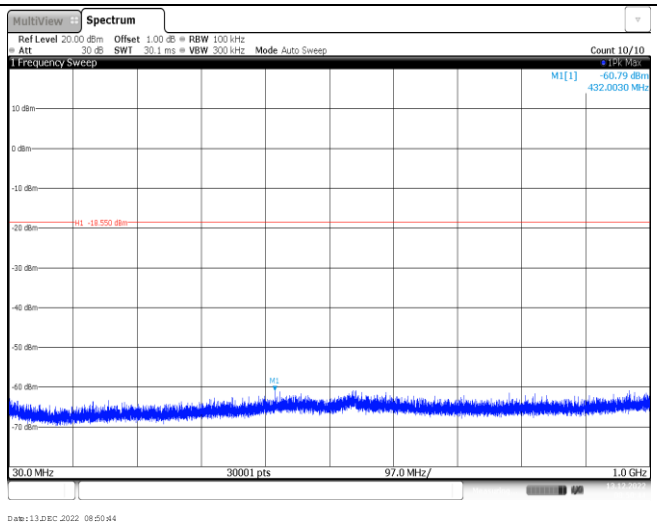
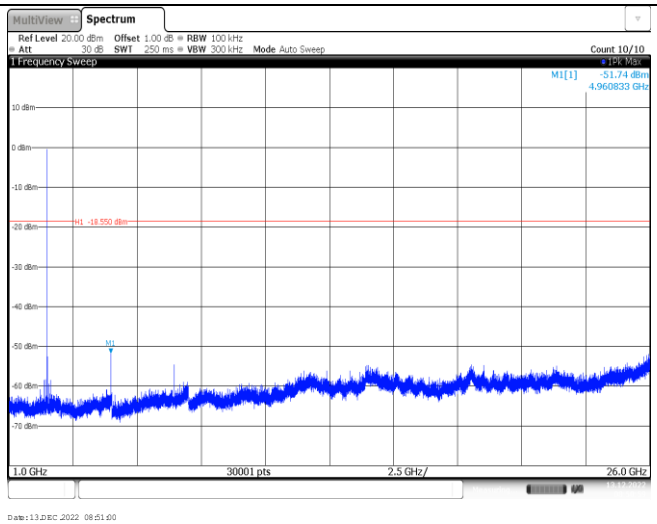
Test Item:	SE	Test Rate:	1Mbps
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

CH19 Reference level	
CH19 30MHz~1000MHz	
CH19 1GHz~26GHz	

CH39 Reference level	
CH39 30MHz~1000MHz	
CH39 1GHz~26GHz	

Test Item:	SE	Test Rate:	2Mbps
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

CH19 Reference level	
CH19 30MHz~1000MHz	
CH19 1GHz~26GHz	

CH39 Reference level	
CH39 30MHz~1000MHz	
CH39 1GHz~26GHz	

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