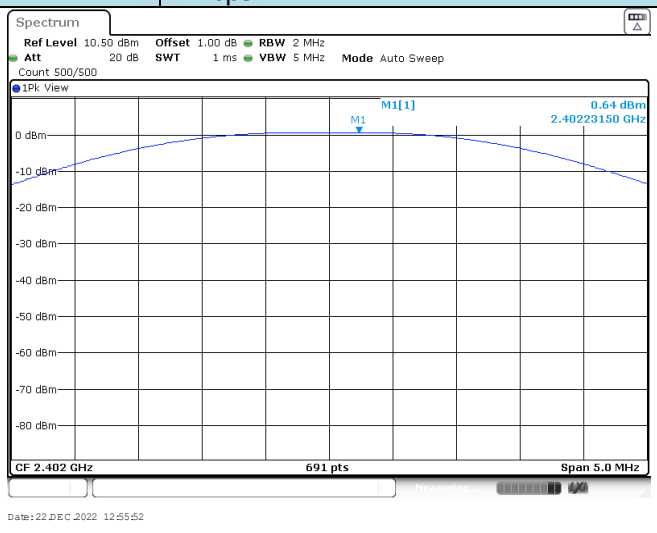
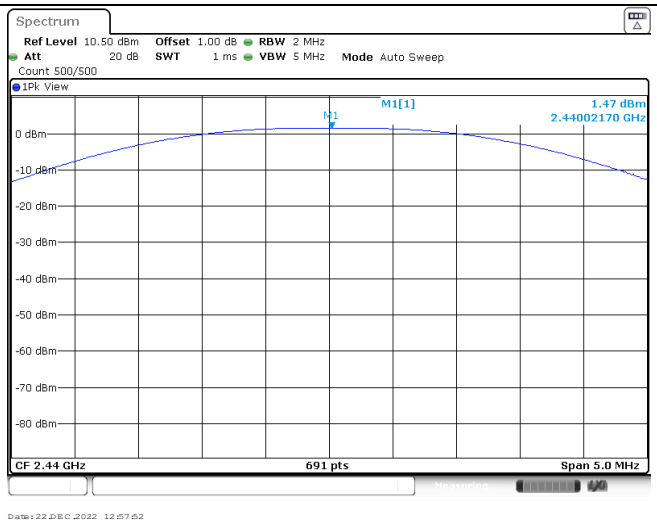
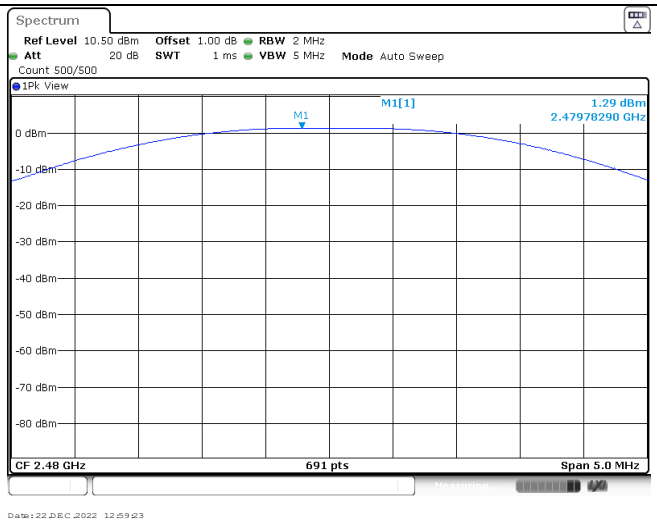
APPENDIX REPORT

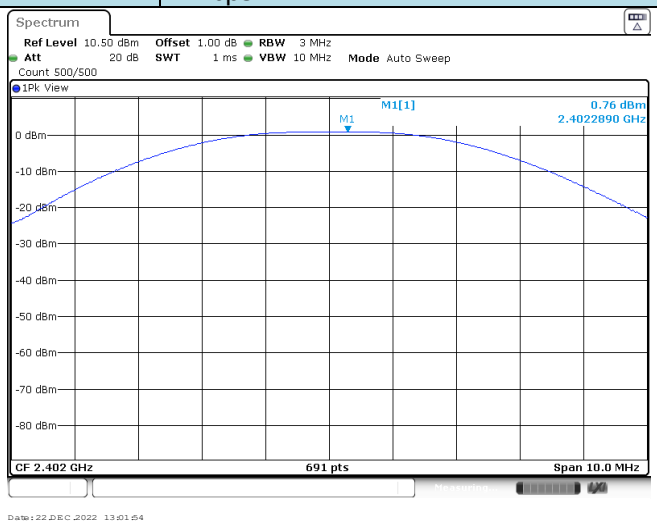
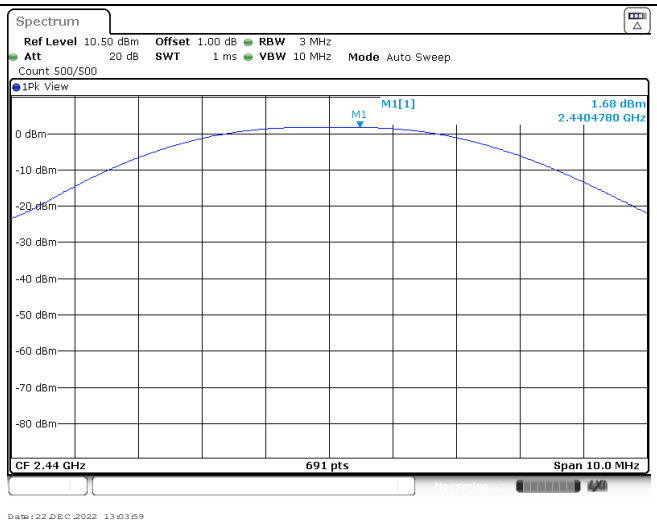
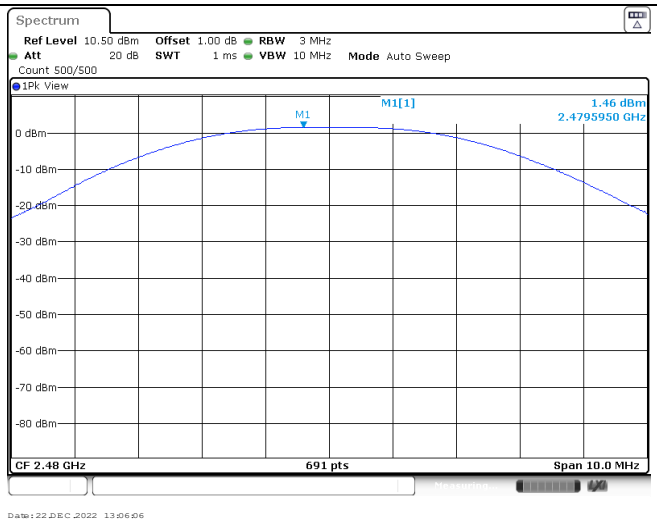
Project No.	SHT2208212702EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT22082127001	Model No.	AET-F342
Start test date	2022-12-22	Finish date	2022-12-22
Temperature	20.7℃	Humidity	20%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zhao

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

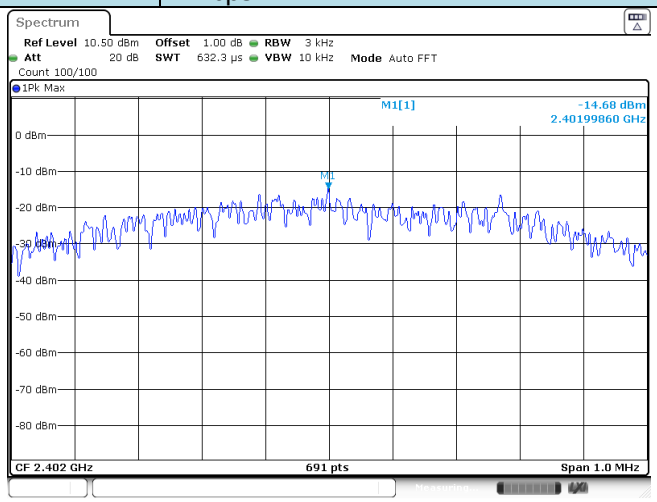
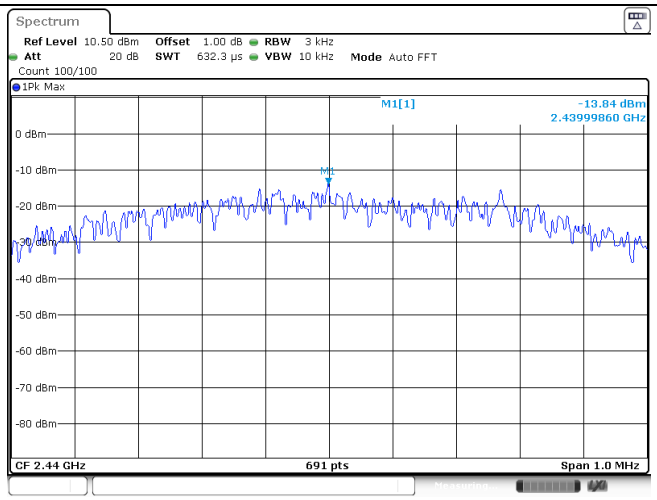
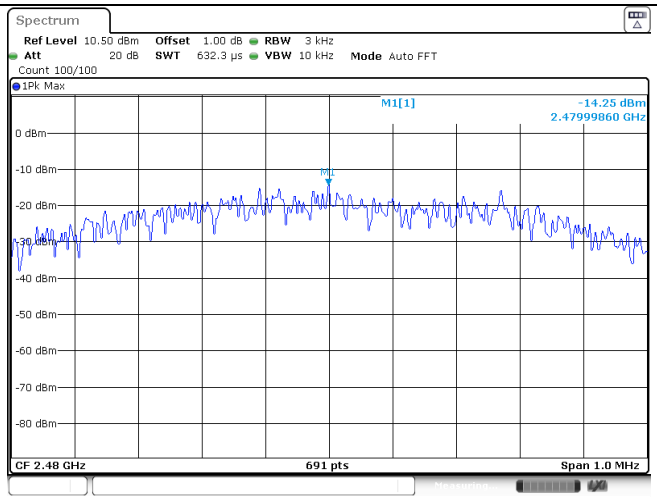
Test rate	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
1Mbps	00	0.64	0.61	≤ 30.00	Pass
	19	1.47	1.42		
	39	1.29	1.26		
2Mbps	00	0.76	0.54	≤ 30.00	Pass
	19	1.68	1.36		
	39	1.46	1.18		

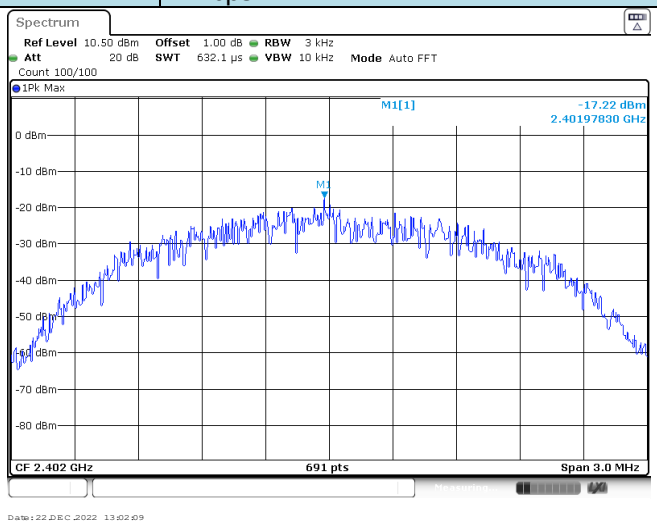
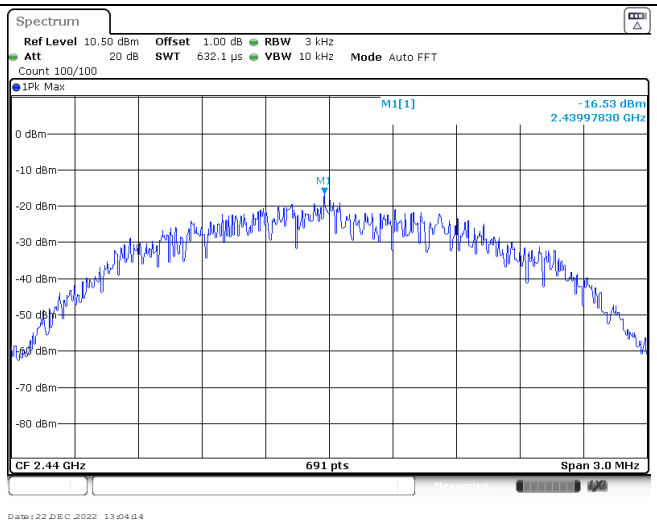
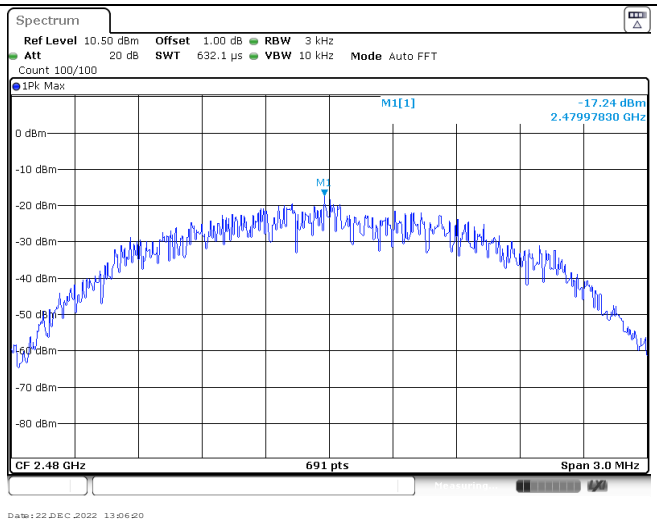
Test rate:	1Mbps
CH00	
CH19	
CH39	

Test rate:	2Mbps
CH00	
CH19	
CH39	

Appendix B：Power Spectral Density

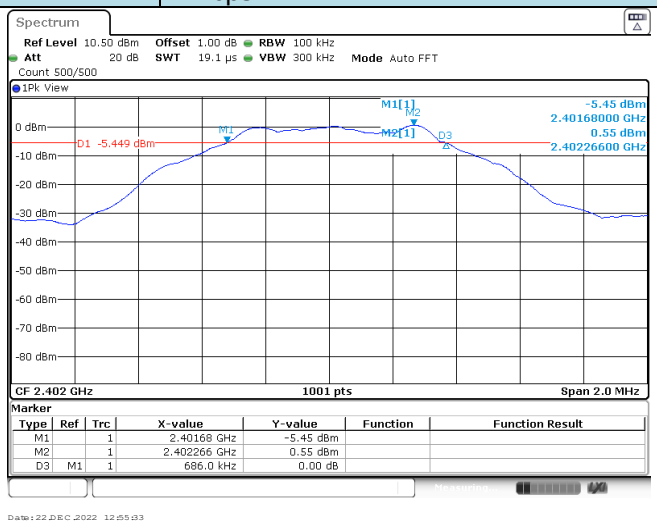
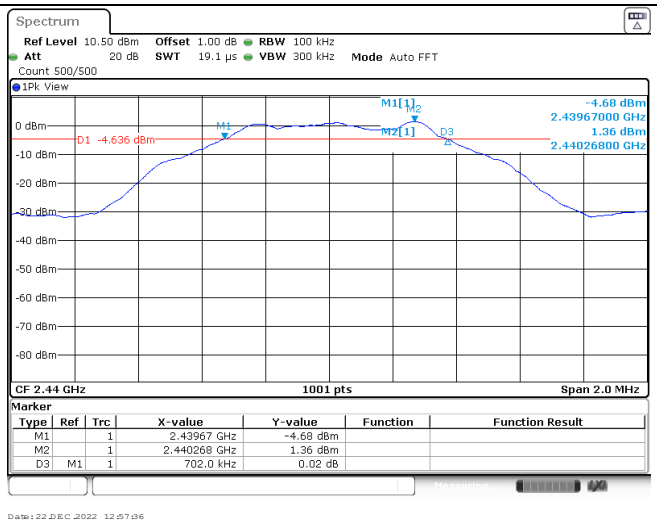
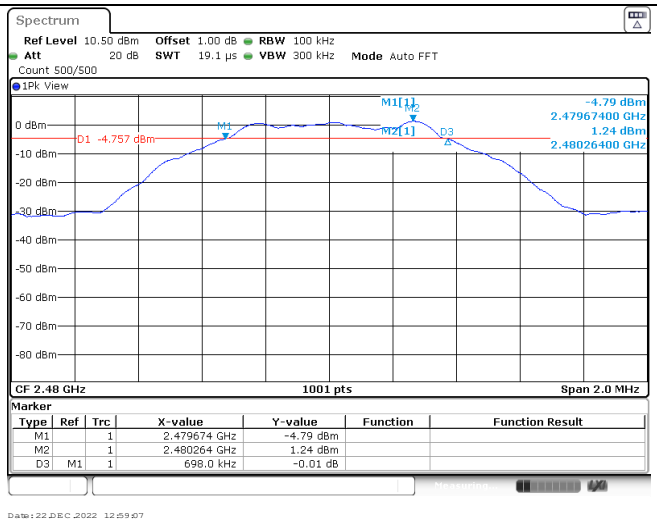
Test rate	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
1Mbps	00	-14.68	≤8.00	Pass
	19	-13.84		
	39	-14.25		
2Mbps	00	-17.22	≤8.00	Pass
	19	-16.53		
	39	-17.24		

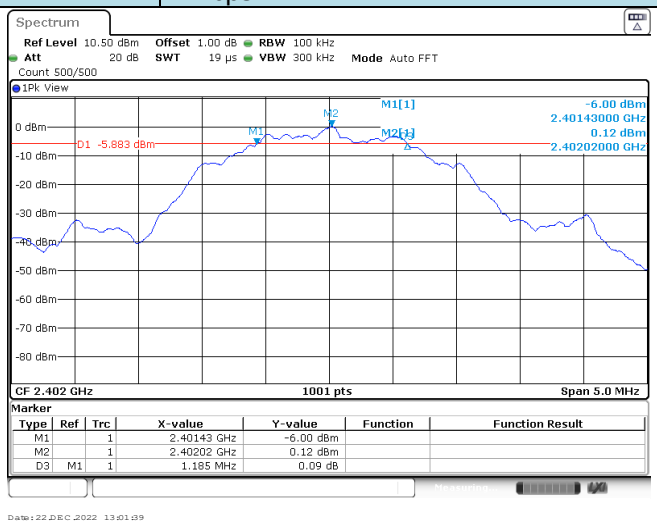
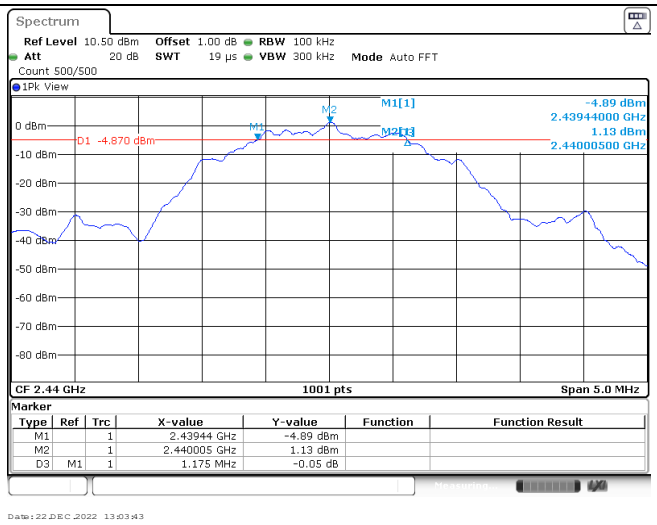
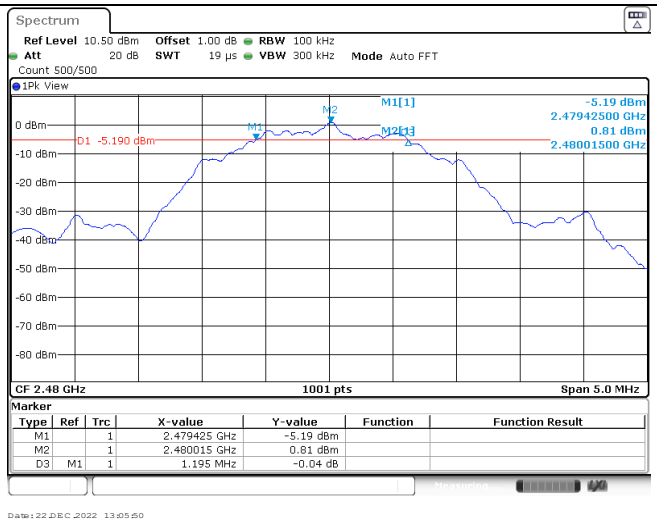
Test rate:	1Mbps
CH00	
CH19	
CH39	

Test rate:	2Mbps
CH00	
CH19	
CH39	

Appendix C：6dB bandwidth

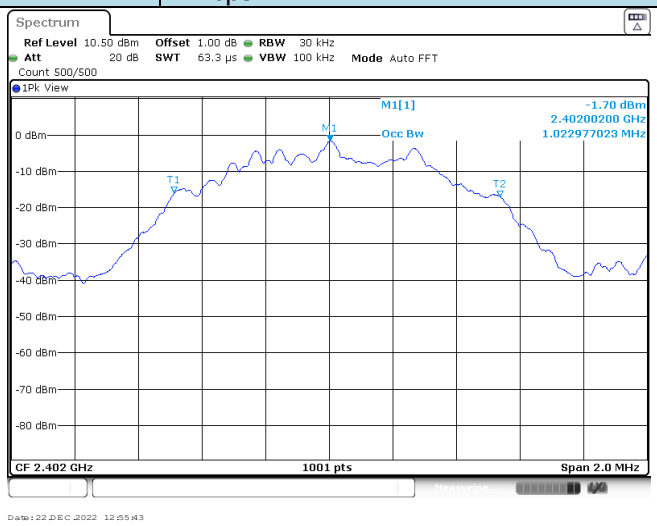
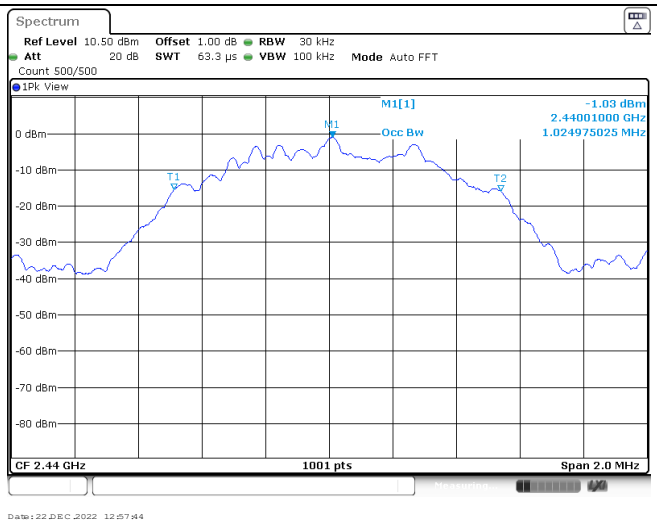
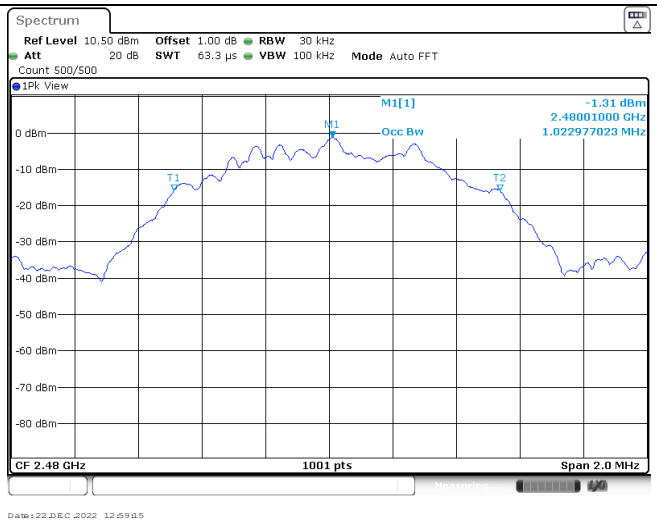
Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
1Mbps	00	686.00	≥500	Pass
	19	702.00		
	39	698.00		
2Mbps	00	1185.00	≥500	Pass
	19	1175.00		
	39	1195.00		

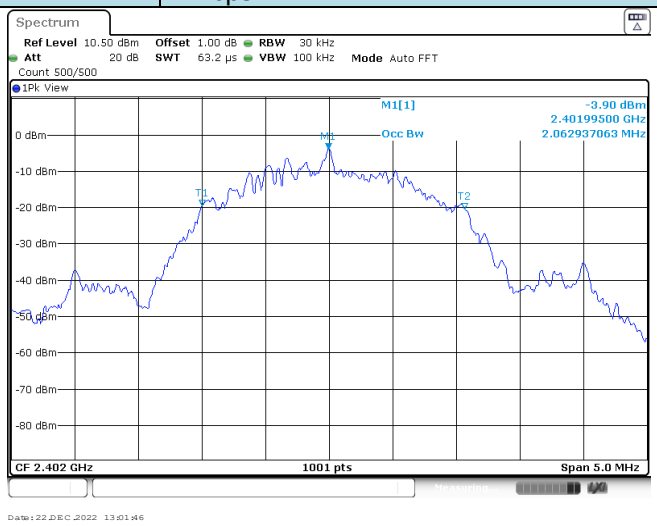
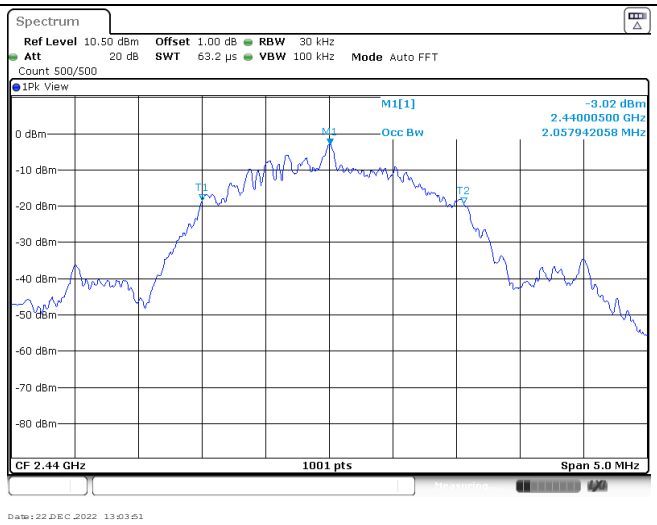
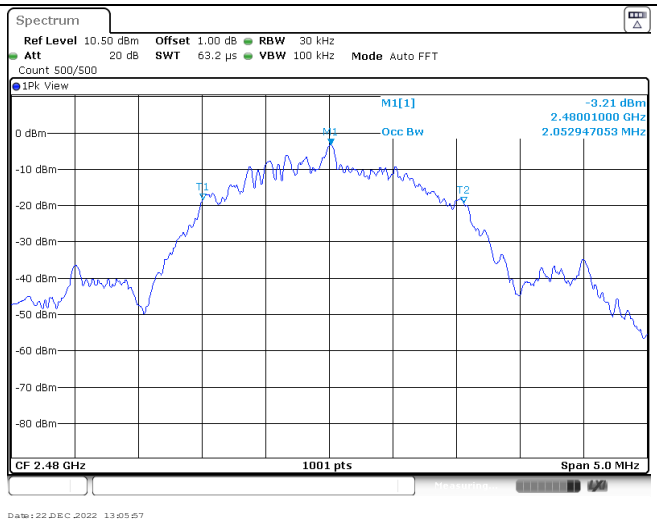
Test rate:	1Mbps
CH00	
CH19	
CH39	

Test rate:	2Mbps
CH00	
CH19	
CH39	

Appendix D：99% Occupied Bandwidth

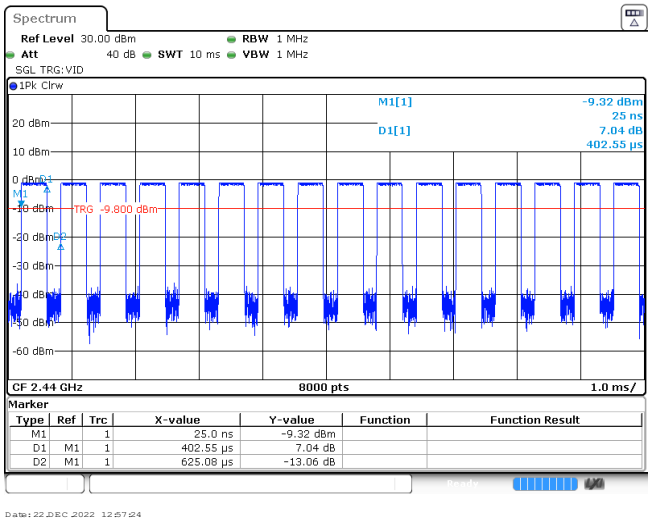
Test rate	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
1Mbps	00	1.02	-	Pass
	19	1.02		
	39	1.02		
2Mbps	00	2.06	-	Pass
	19	2.06		
	39	2.05		

Test rate:	1Mbps
CH00	
CH19	
CH39	

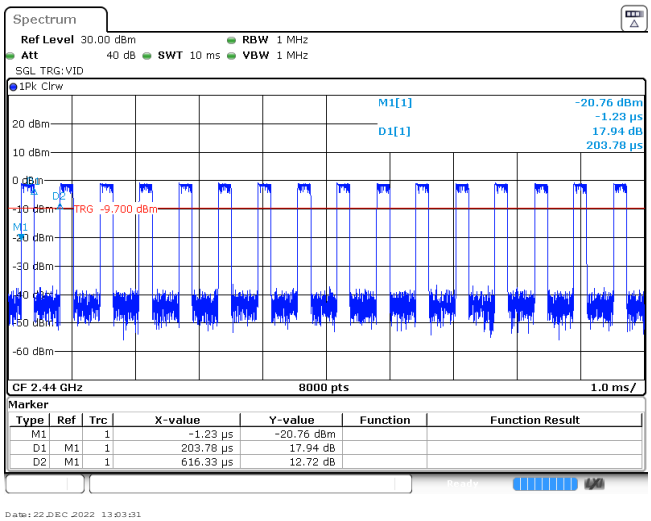
Test rate:	2Mbps
CH00	
CH19	
CH39	

Appendix E：Duty cycle

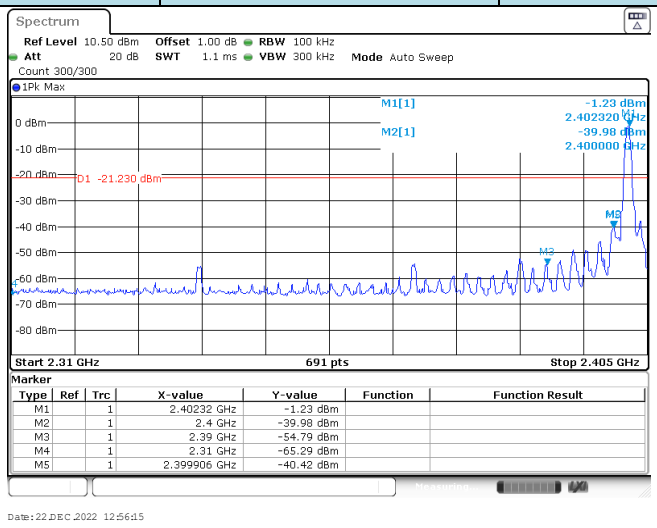
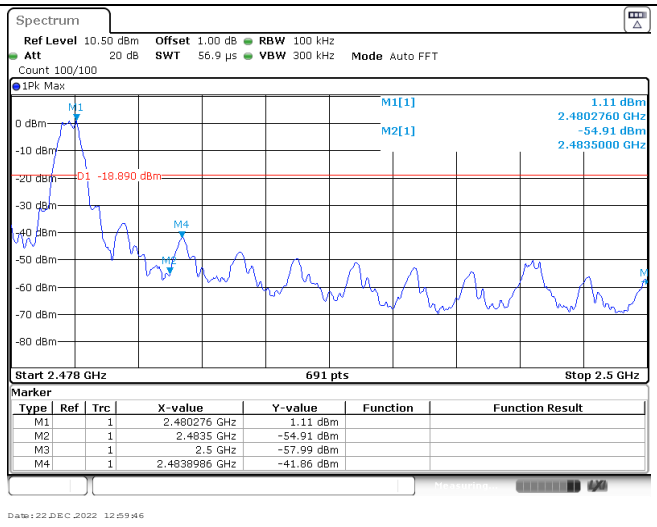
Test Rate:		1Mbps		
Test Frequency （MHz）	Ton time for single burst (ms)	Tperiod (ms)	Duty cycle	1/Ton time (kHz)
2440	0.40	0.63	63.5%	2.5

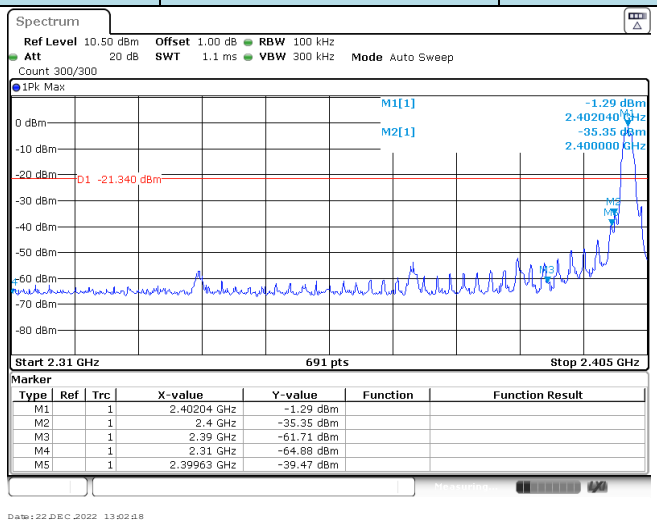


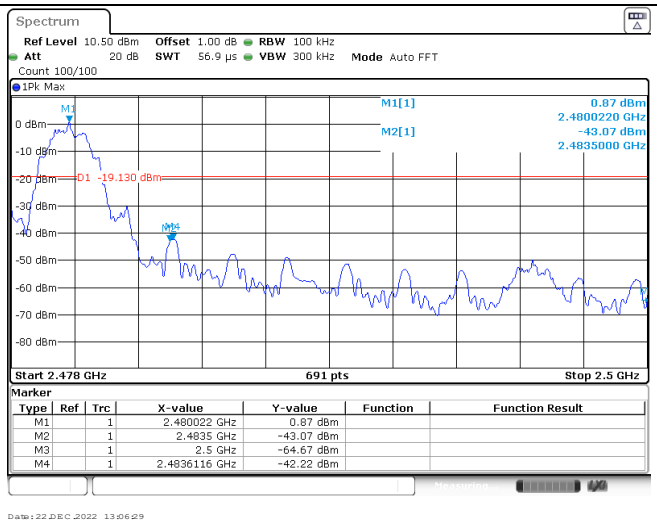
Test Rate:		2Mbps		
Test Frequency （MHz）	Ton time for single burst (ms)	Tperiod (ms)	Duty cycle	1/Ton time (kHz)
2440	0.20	0.62	32.3%	2



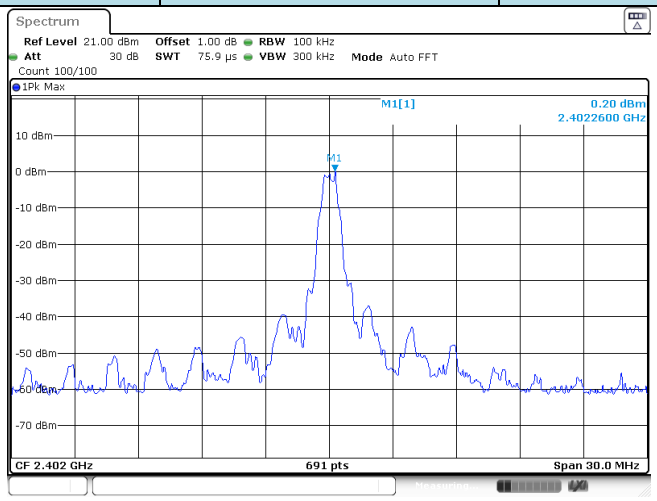
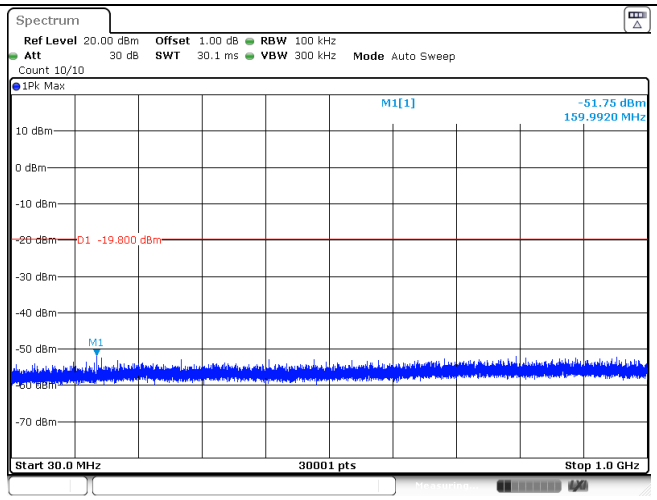
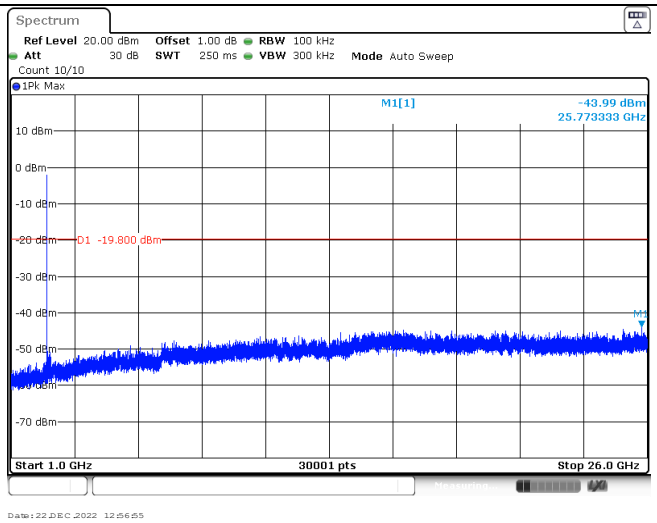
Appendix F：Band edge and Spurious Emissions (conducted)

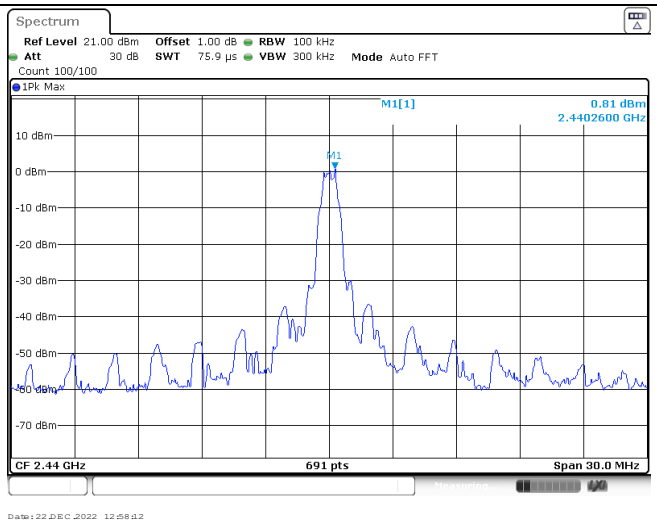
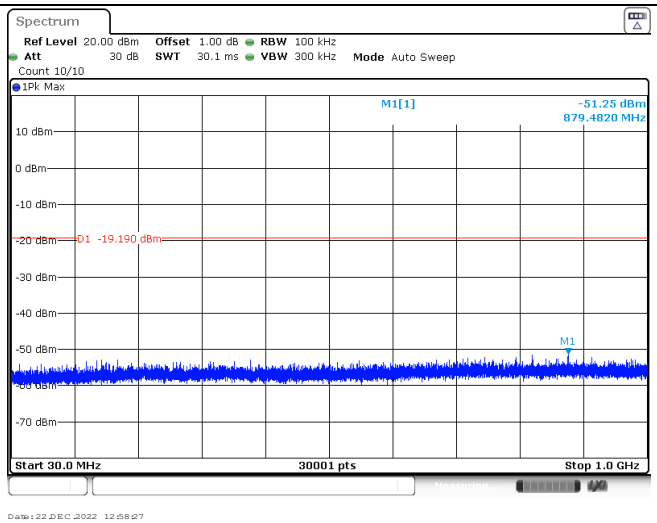
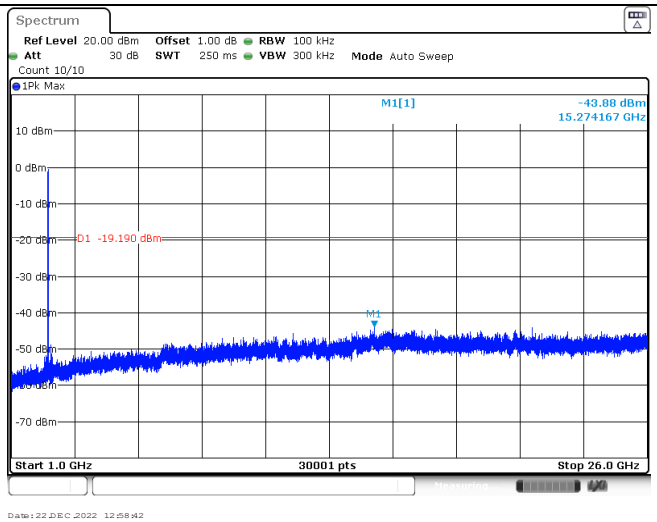
Test Item:	Band edge	Test Rate:	1Mbps
CH00			
CH39			

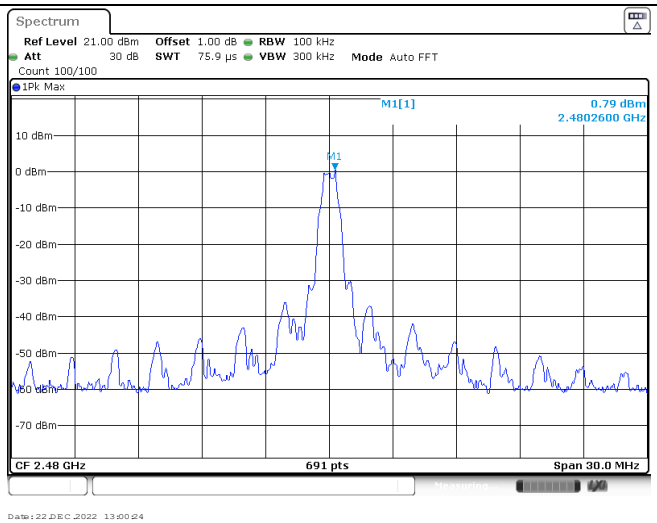
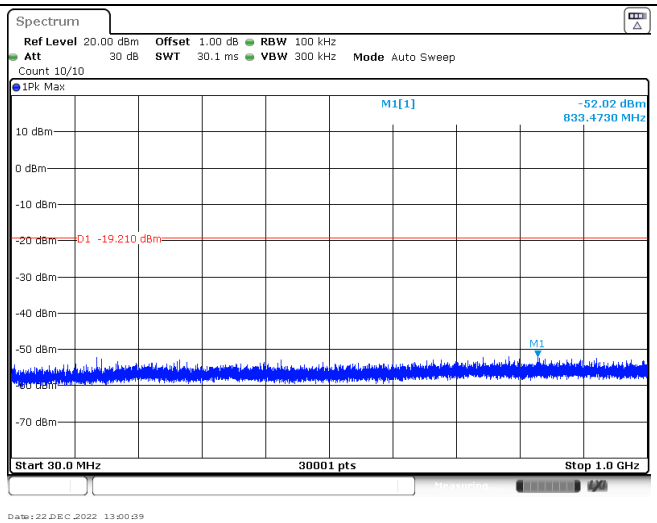
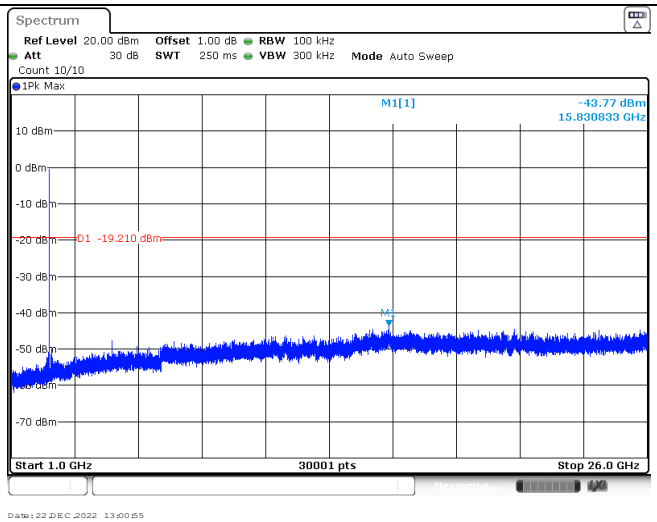
Test Item:	Band edge	Test Rate:	2Mbps
CH00			

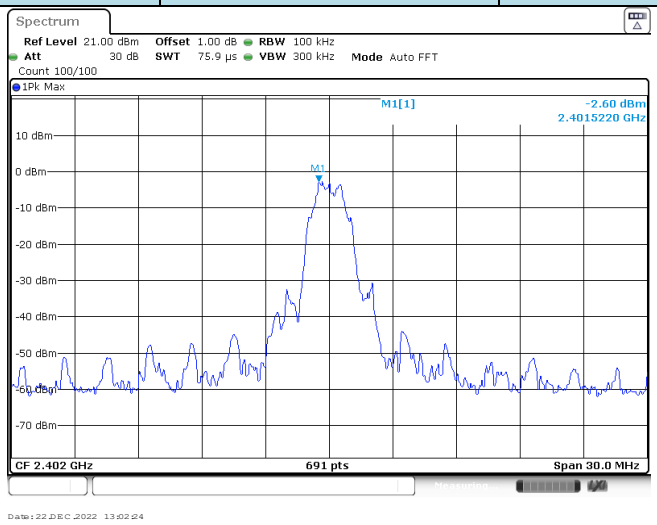
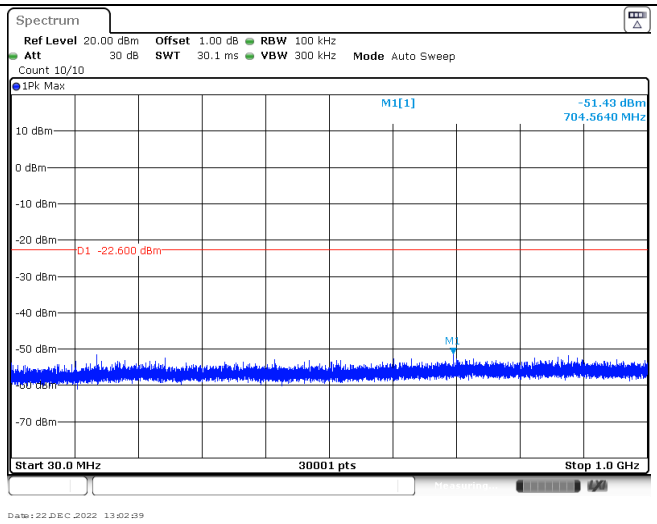
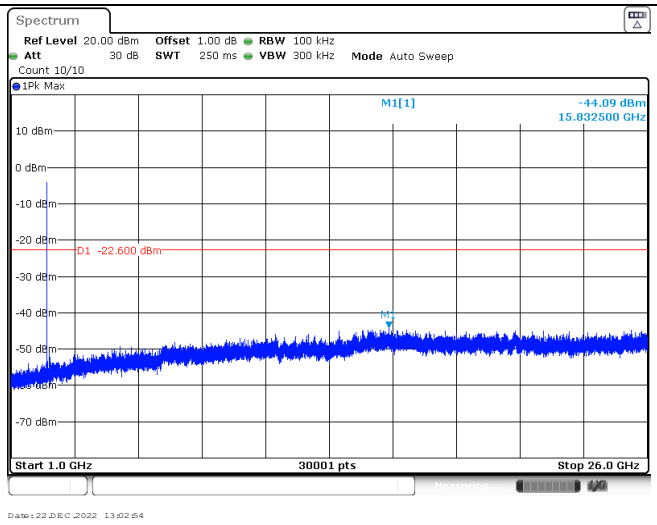
CH39	

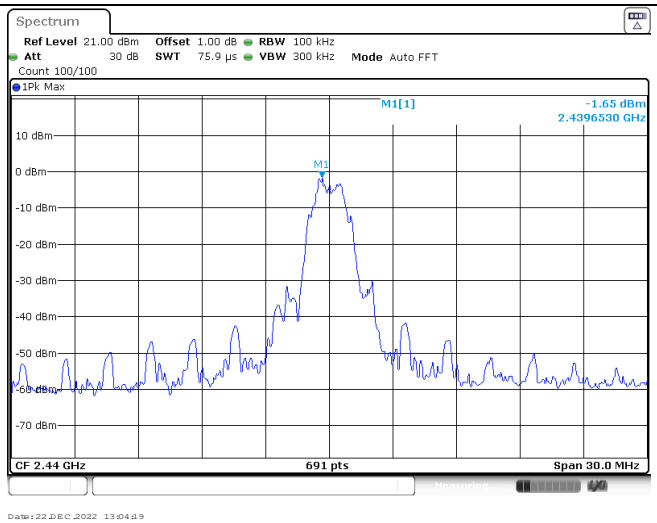
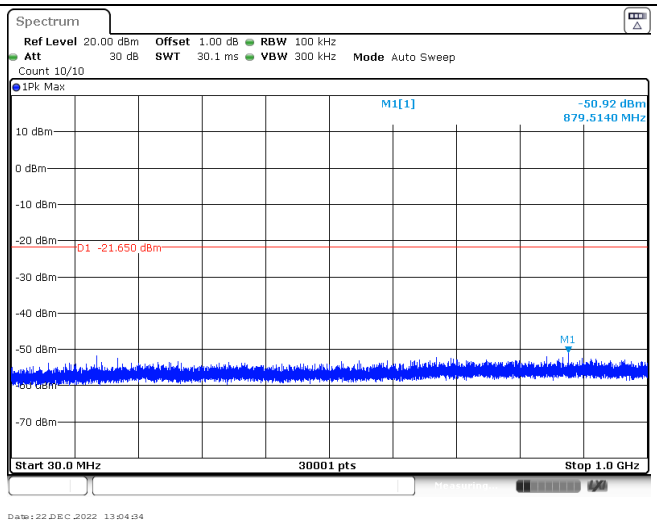
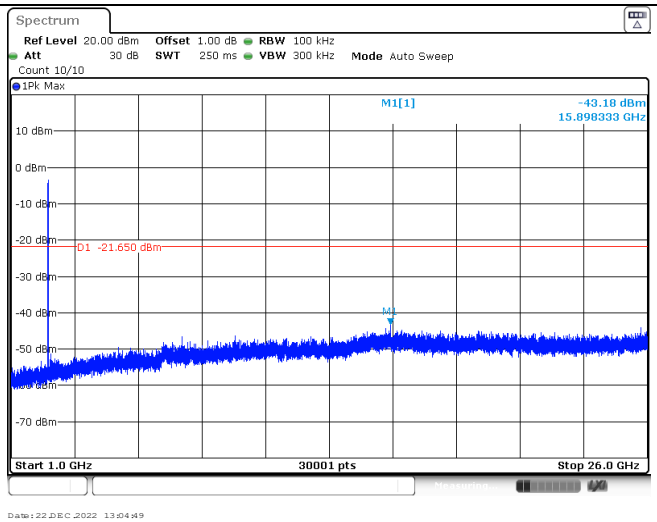
Spectrum
Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz
Att 20 dB SWT 56.9 µs VBW 300 kHz Mode Auto FFT
Count 100/100
1Pk Max
M1[1] 0.87 dBm
2.4800220 GHz
M2[1] -43.07 dBm
2.4835000 GHz
D1 -19.130 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm
Start 2.478 GHz
691 pts
Stop 2.5 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 2.480022 GHz 0.87 dBm
M2 1 2.4835 GHz -43.07 dBm
M3 1 2.5 GHz -64.67 dBm
M4 1 2.4836116 GHz -42.22 dBm
Date: 22.DEC.2022 13:06:29

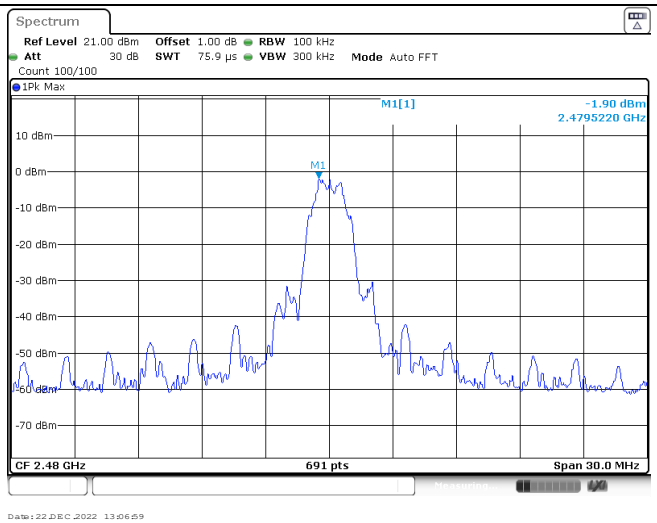
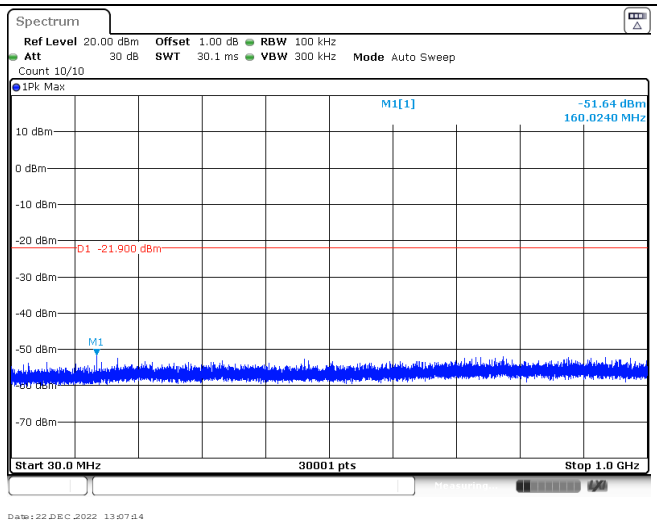
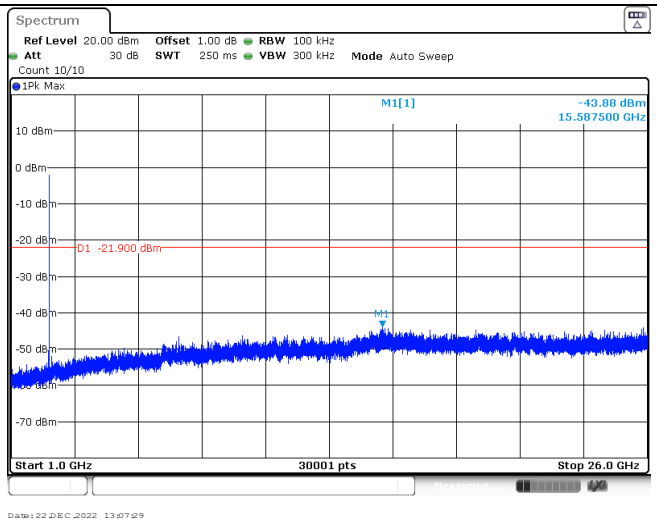
Test Item:	SE	Test Rate:	1Mbps
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

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	

--------End of Report--------