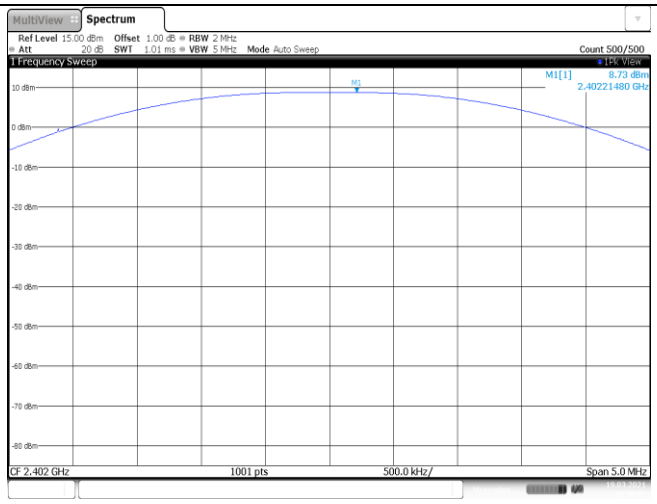
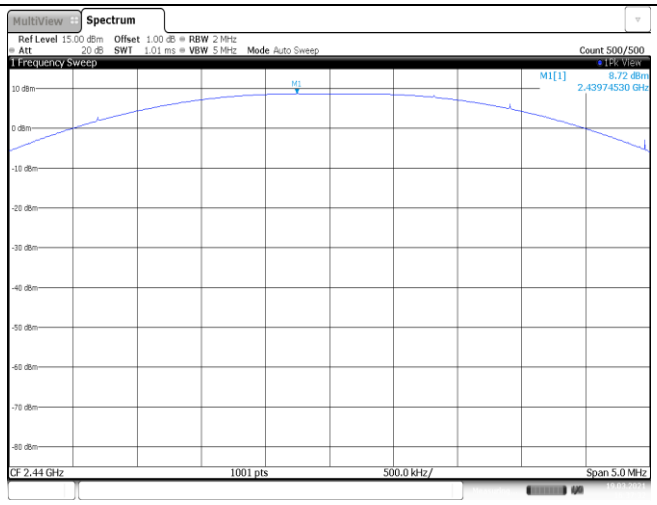
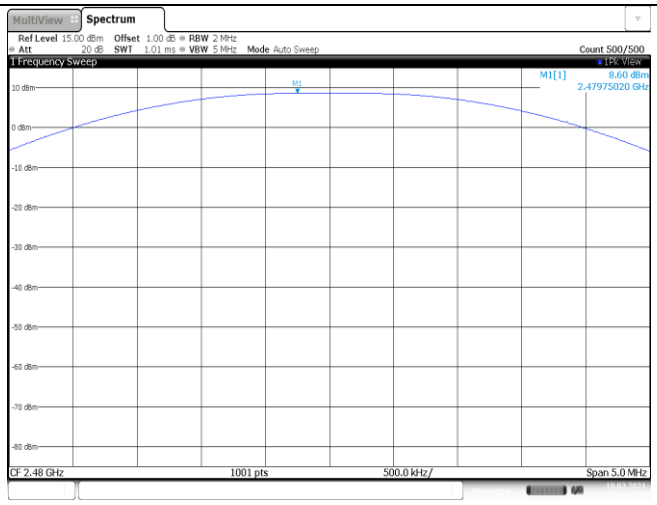
APPENDIX REPORT

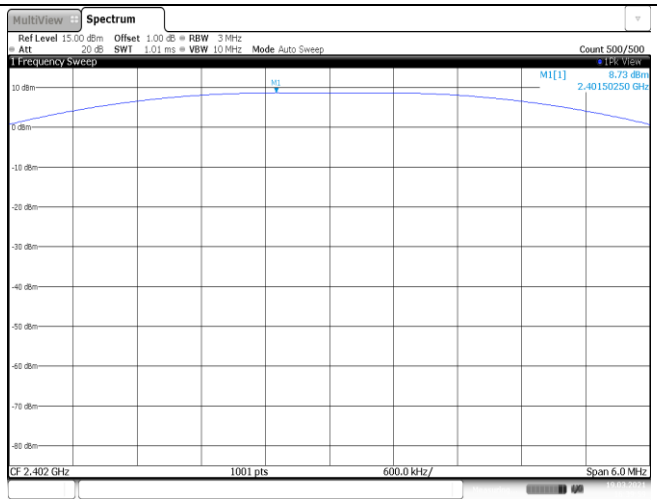
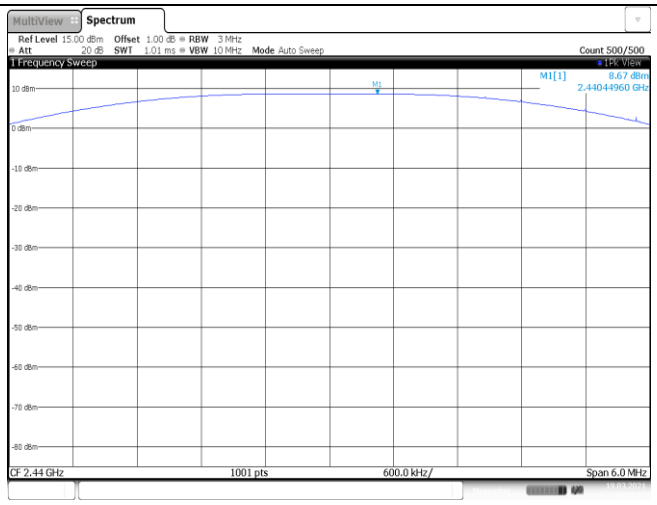
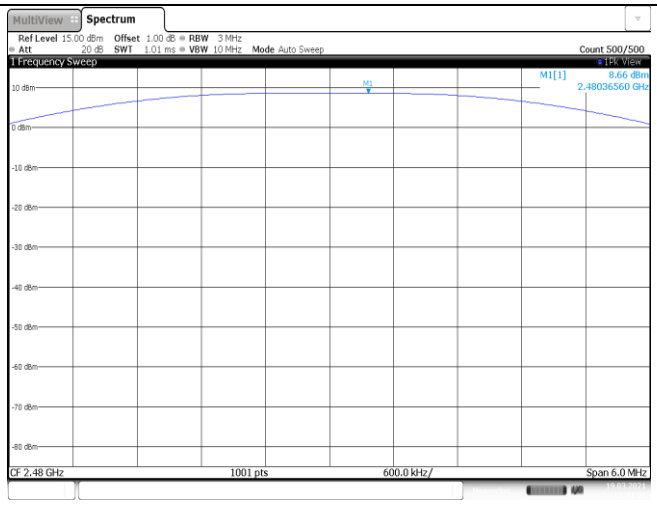
Project No.	SHT2103026501EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21030265003	Model No.	HET-BA1611
Start test date	2021-03-19	Finish date	2021-03-19
Temperature	22.9°C	Humidity	40%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhao

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

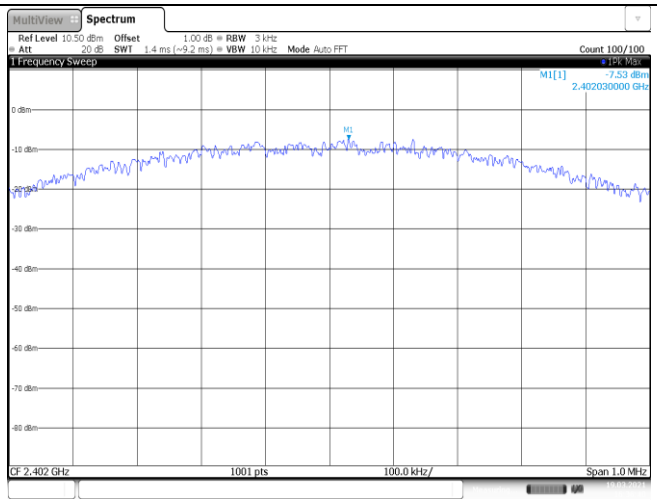
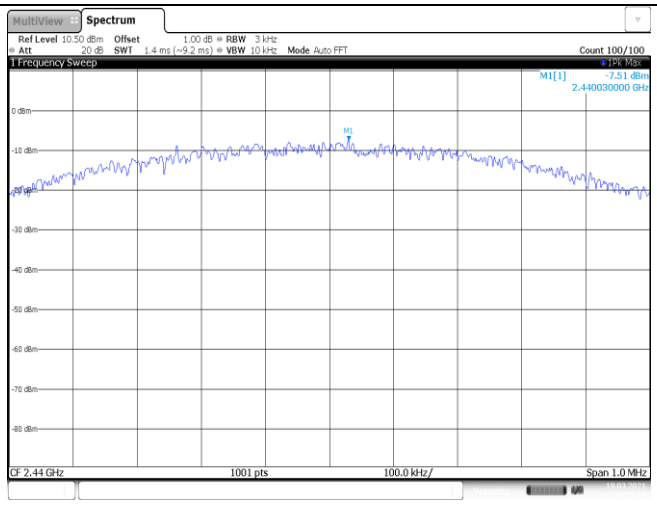
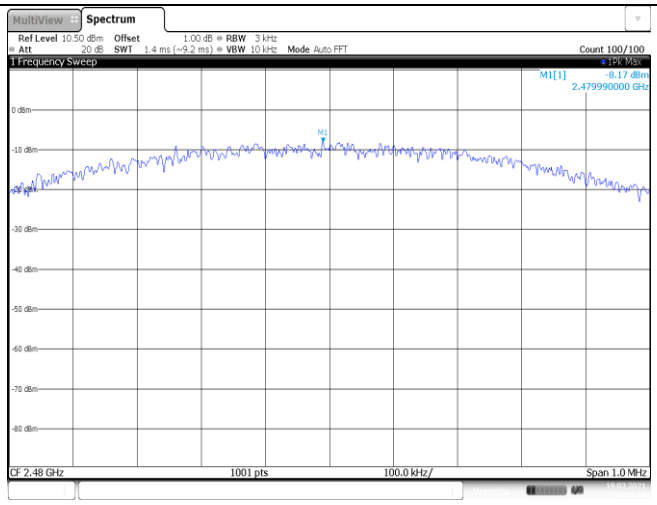
Type	Channel	1Mbps		2Mbps		Limit (dBm)	Result
		Output power (dBm)	Average Output power (dBm)	Output power (dBm)	Average Output power (dBm)		
BT-BLE	00	8.73	8.71	8.73	8.72	≤ 30.00	Pass
	19	8.72	8.70	8.67	8.65		
	39	8.60	8.59	8.66	8.64		

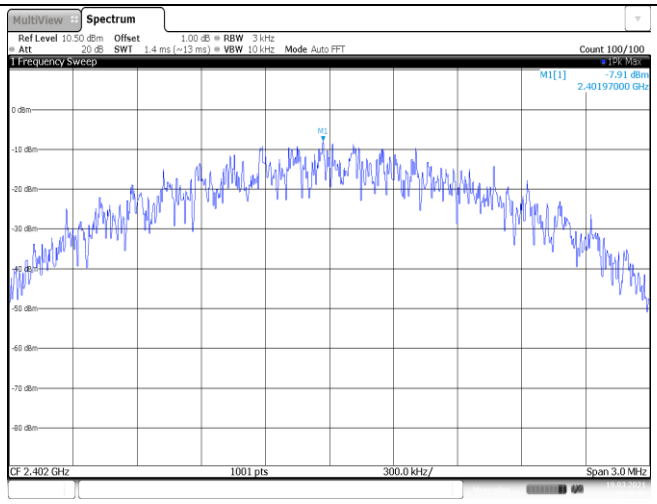
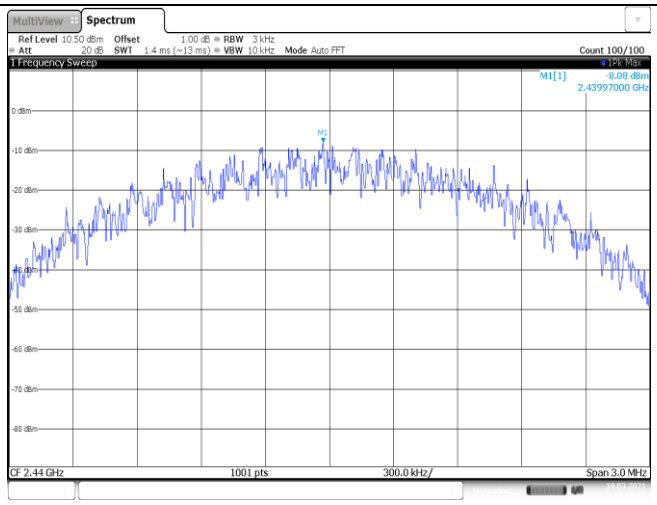
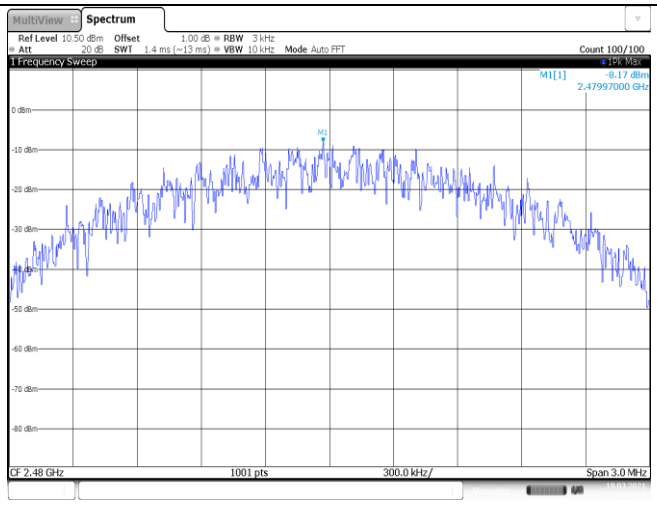
1Mbps	
CH00	
CH19	
CH39	

2Mbps	
CH00	
CH19	
CH39	

Appendix B：Power Spectral Density

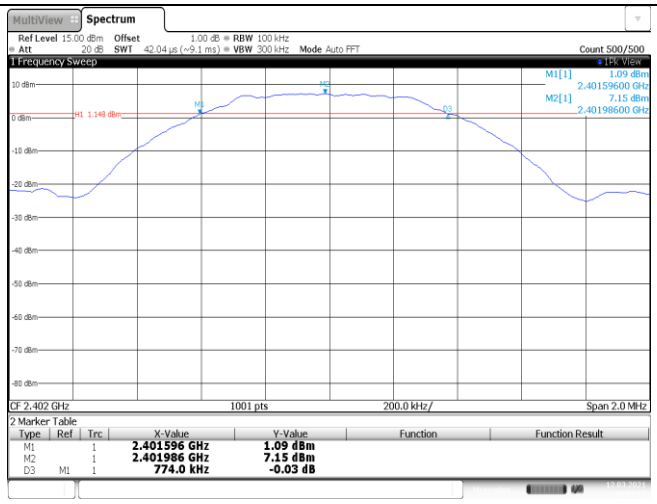
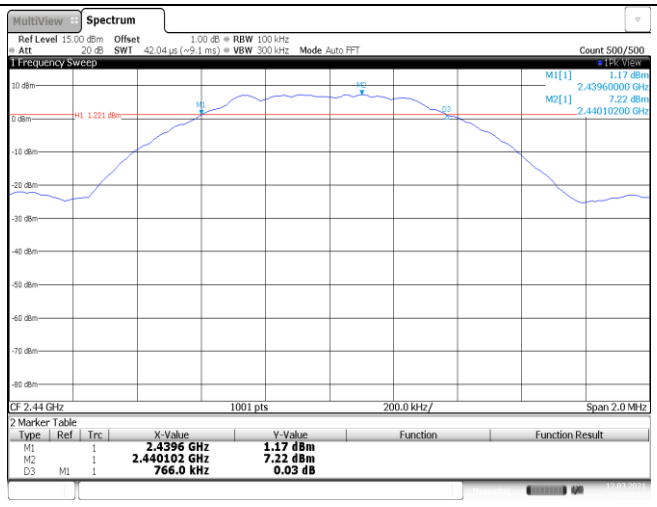
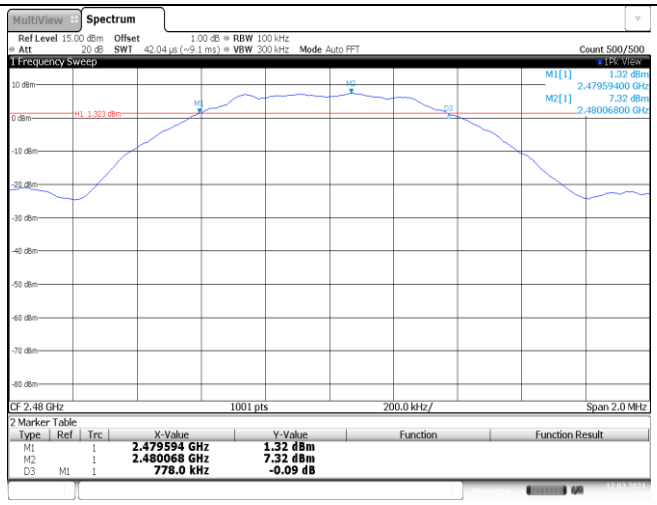
Type	Channel	Power Spectral Density(dBm/3KHz)		Limit (dBm/3KHz)	Result
		1Mbps	2Mbps		
BT-BLE	00	-7.53	-7.91	≤8.00	Pass
	19	-7.51	-8.08		
	39	-8.17	-8.17		

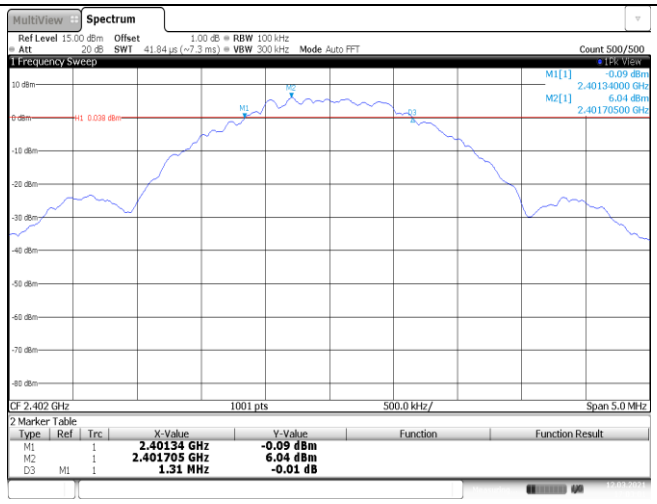
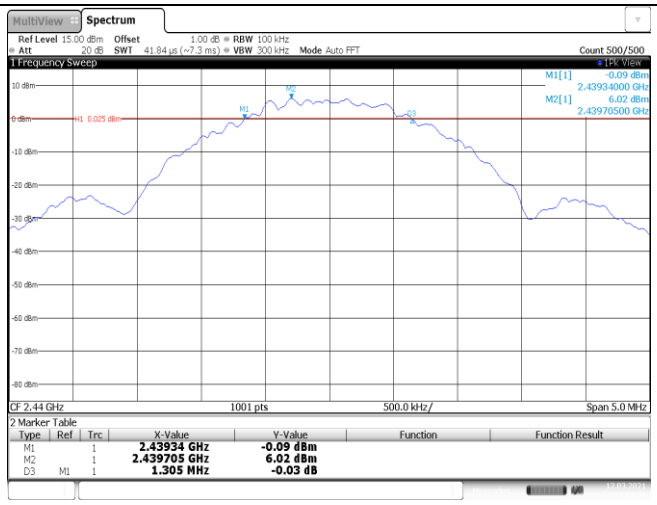
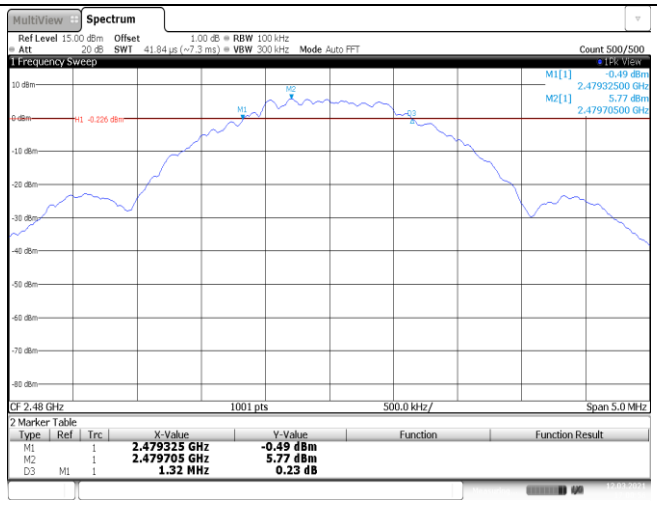
1Mbps	
CH00	
CH19	
CH39	

2Mbps	
CH00	
CH19	
CH39	

Appendix C：6dB bandwidth

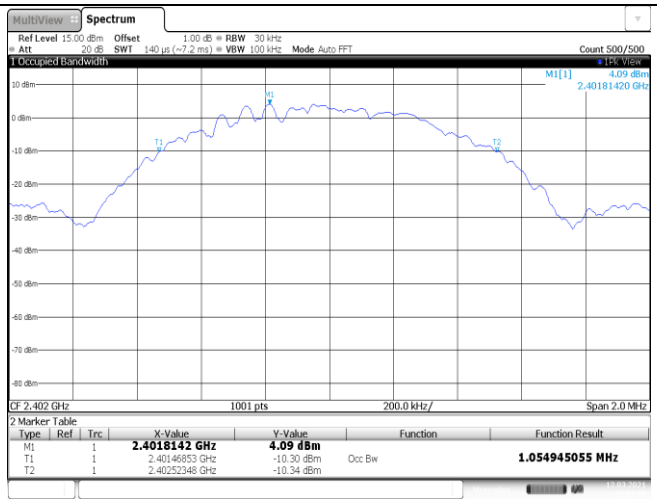
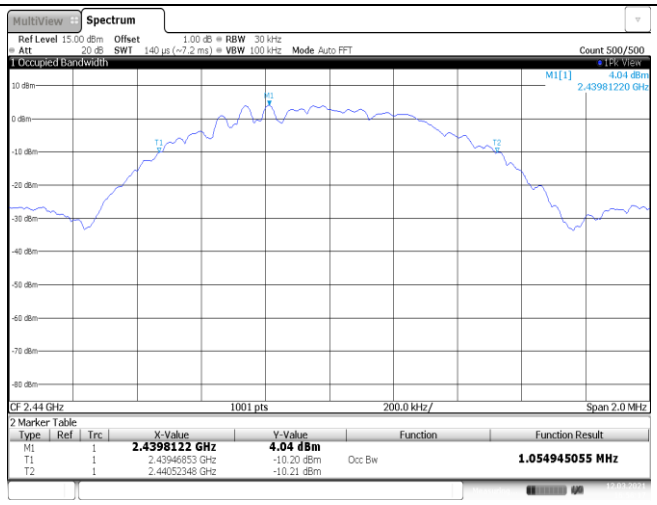
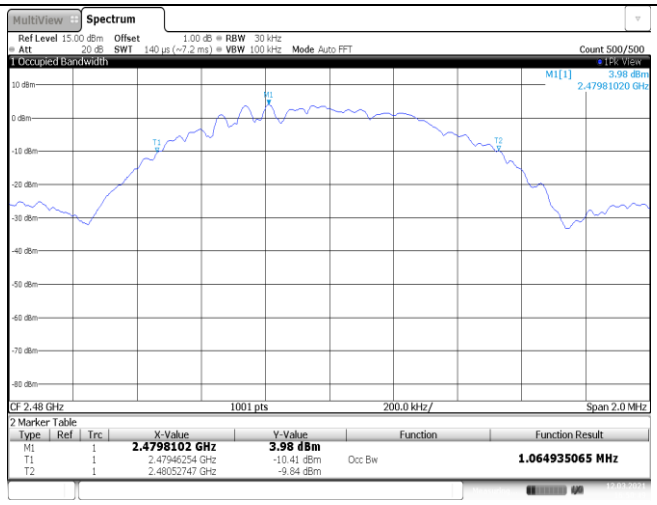
Type	Channel	6dB Bandwidth(kHz)		Limit (kHz)	Result
		1Mbps	2Mbps		
BT-BLE	00	774.00	1310.00	≥500	Pass
	19	766.00	1305.00		
	39	778.00	1320.00		

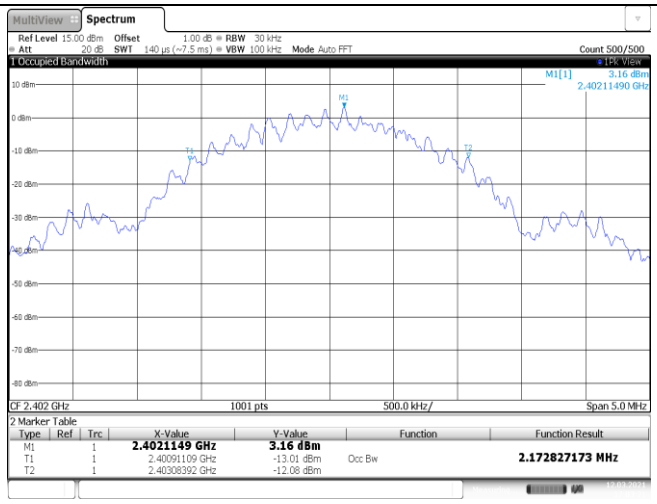
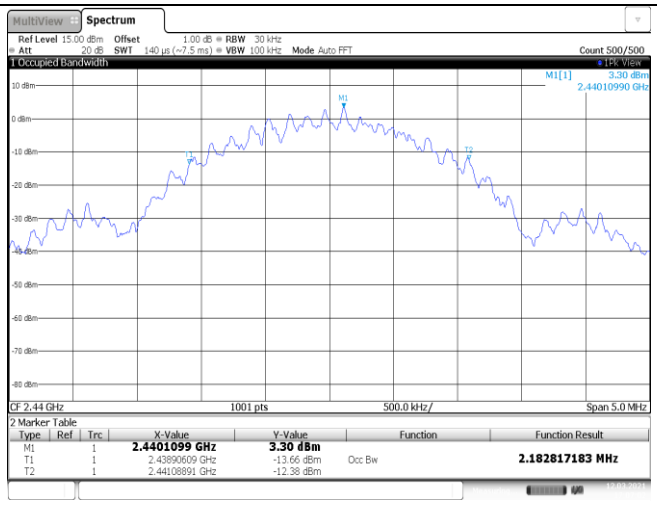
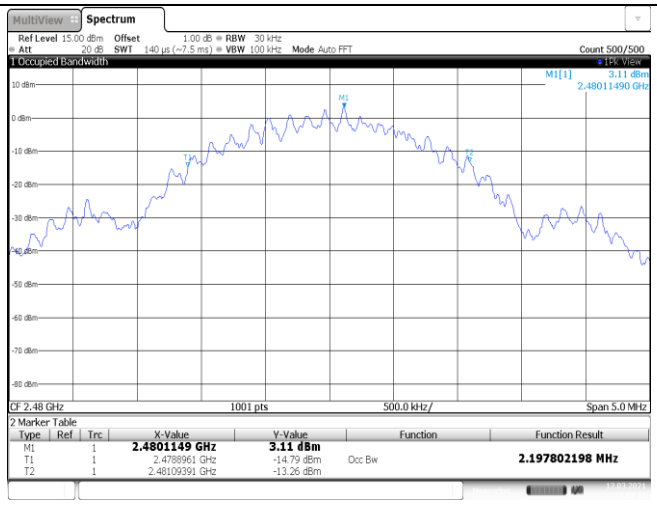
1Mbps	
CH00	
CH19	
CH39	

2Mbps	
CH00	
CH19	
CH39	

Appendix D：99% Occupied Bandwidth

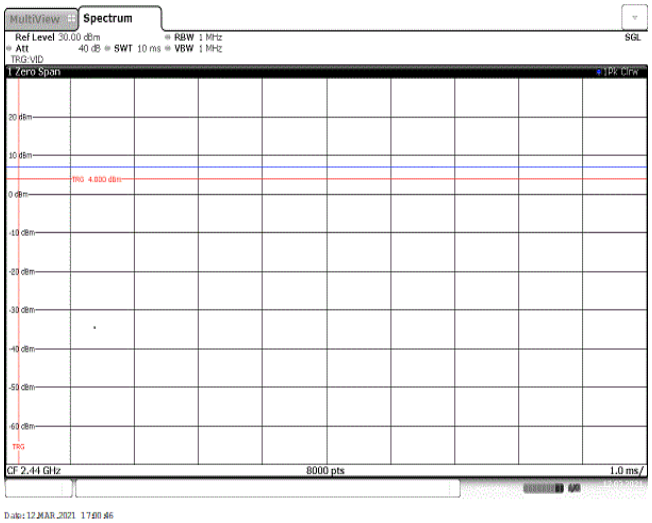
Type	Channel	99% Occupied Bandwidth(MHz)		Limit (kHz)	Result
		1Mbps	2Mbps		
BT-BLE	00	1.06	2.17	-	Pass
	19	1.06	2.18		
	39	1.07	2.20		

1Mbps	
CH00	
CH19	
CH39	

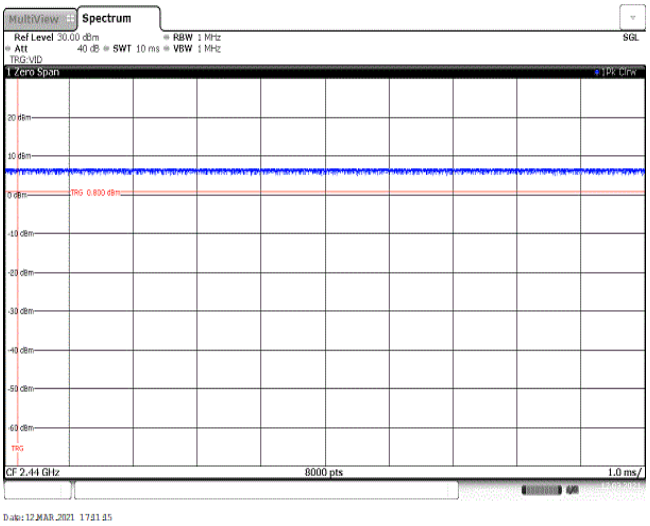
2Mbps	
CH00	
CH19	
CH39	

Appendix E：Duty cycle

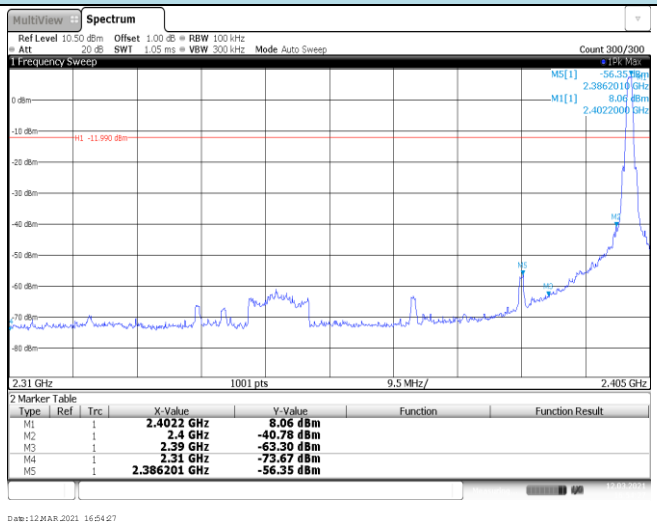
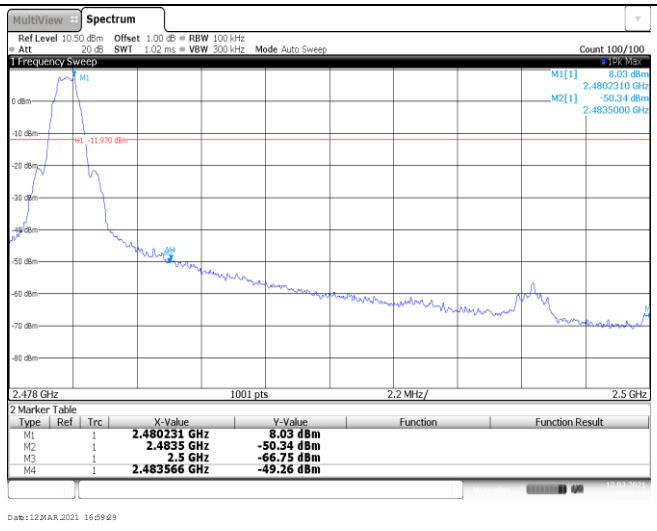
1Mbps				
Test Frequency （MHz）	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
2440	1.00	1.00	100%	1.0

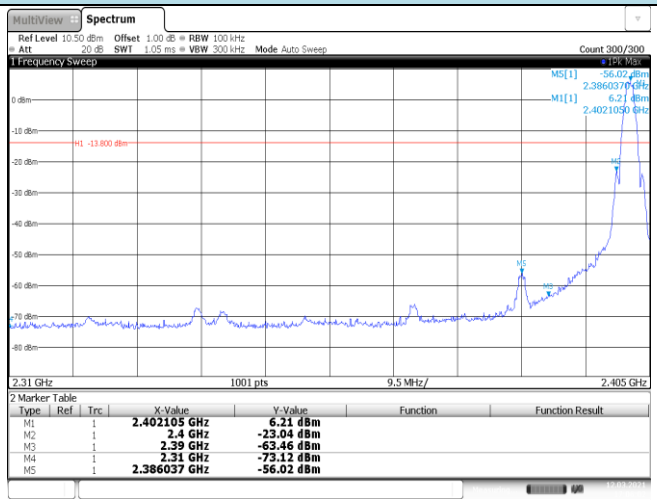
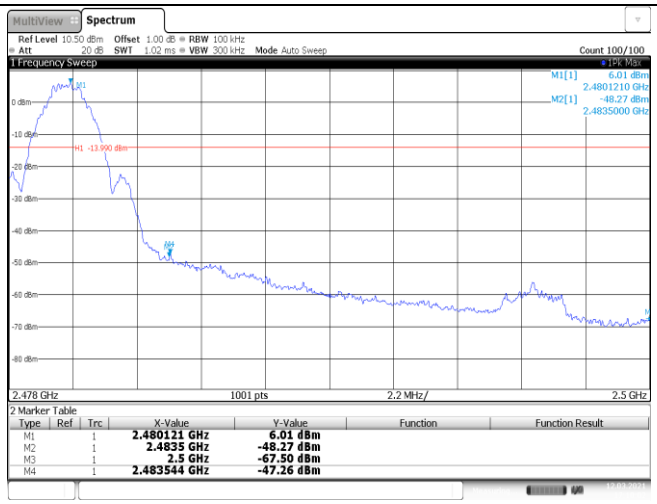


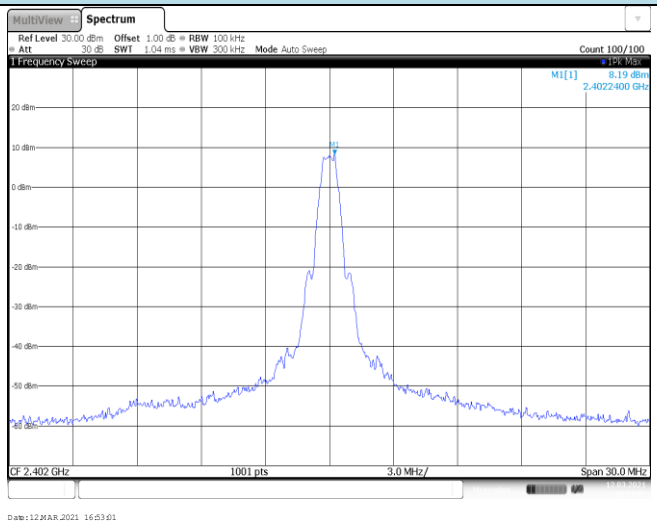
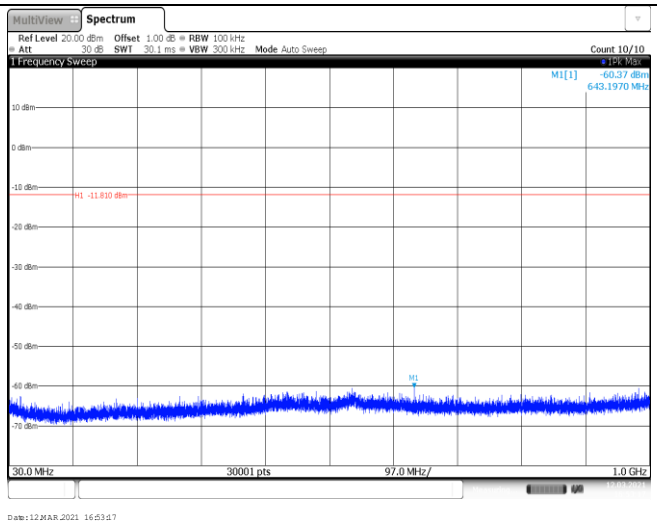
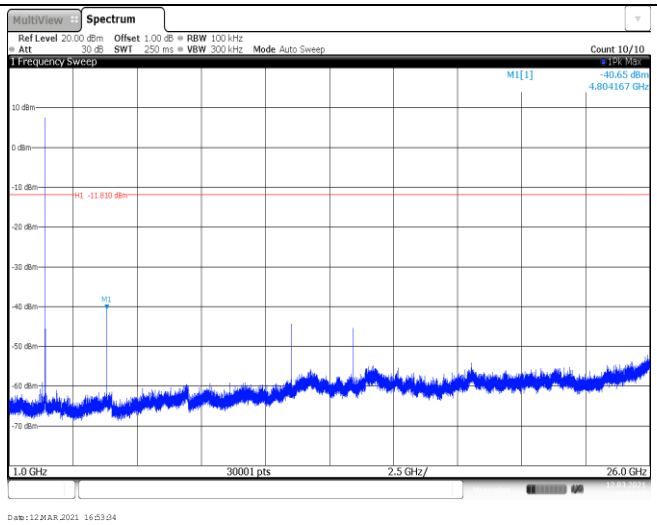
2Mbps				
Test Frequency （MHz）	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
2440	1.00	1.00	100%	1.0

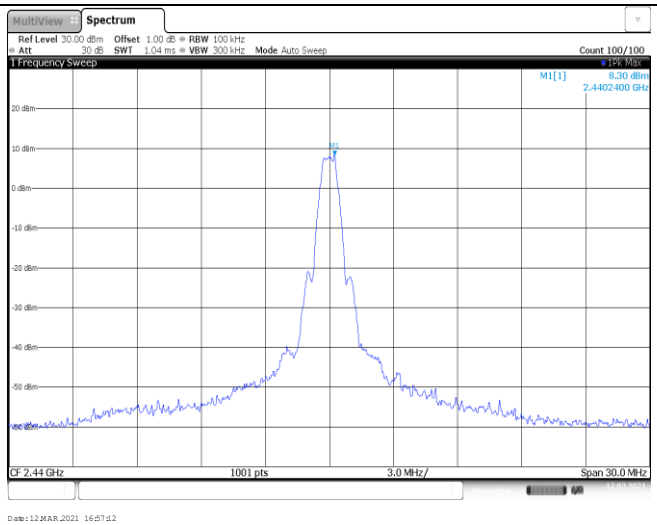
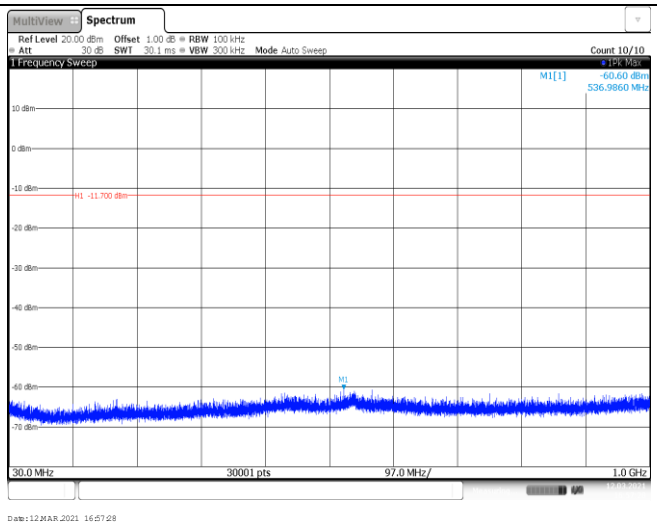
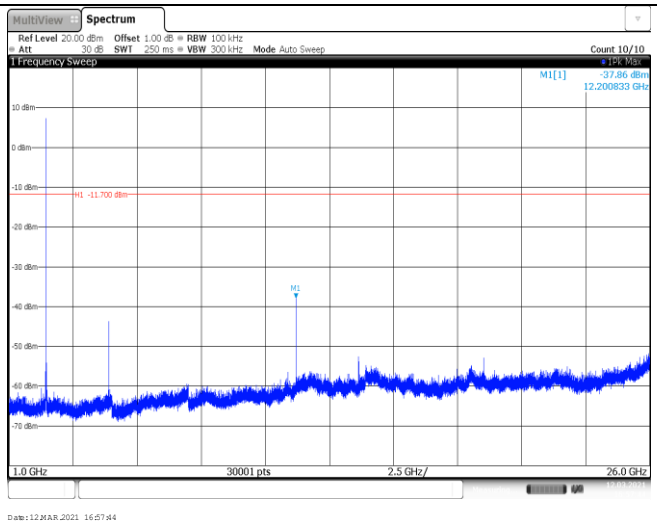


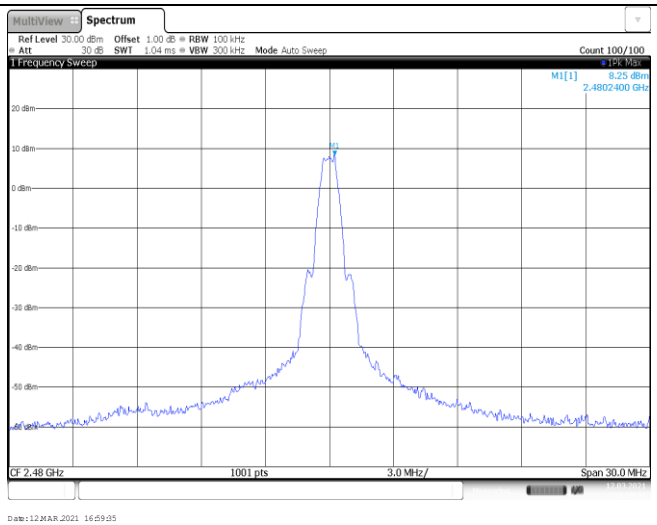
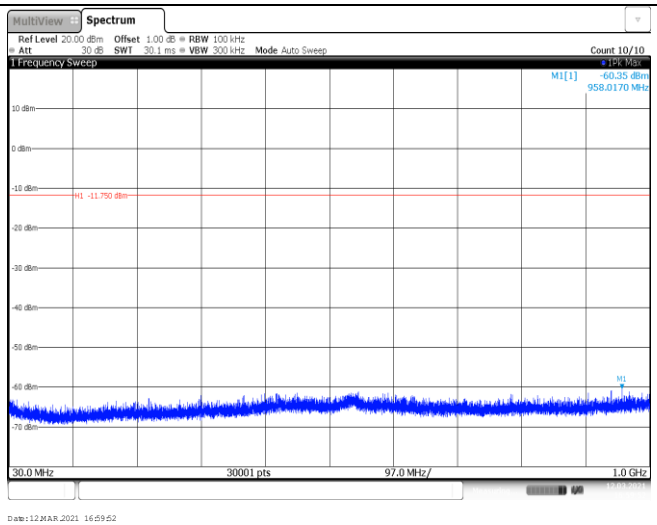
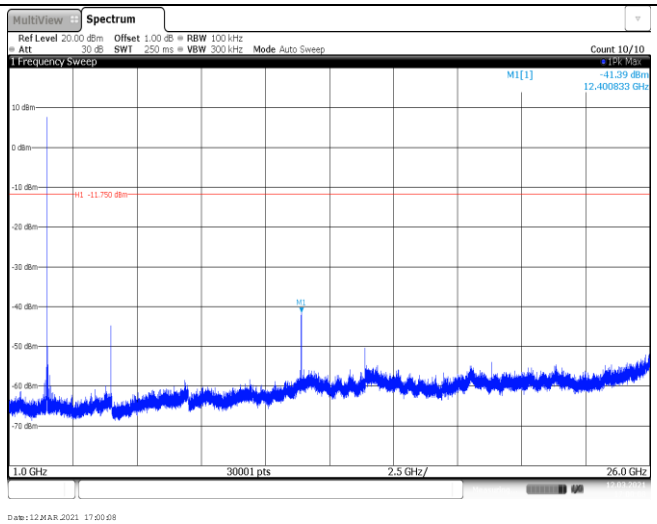
Appendix F：Band edge and Spurious Emissions (conducted)

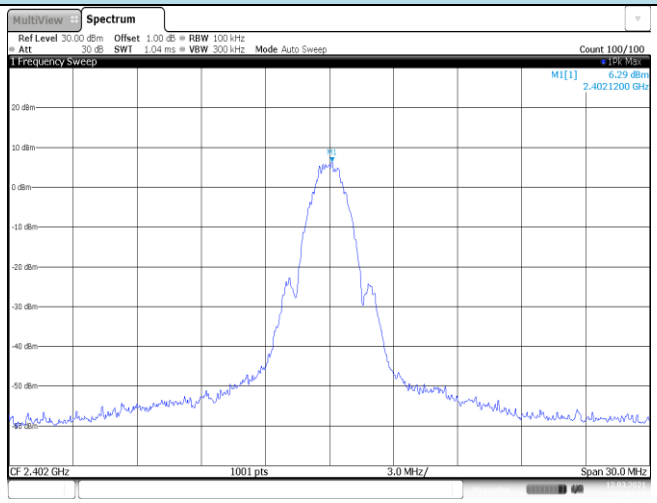
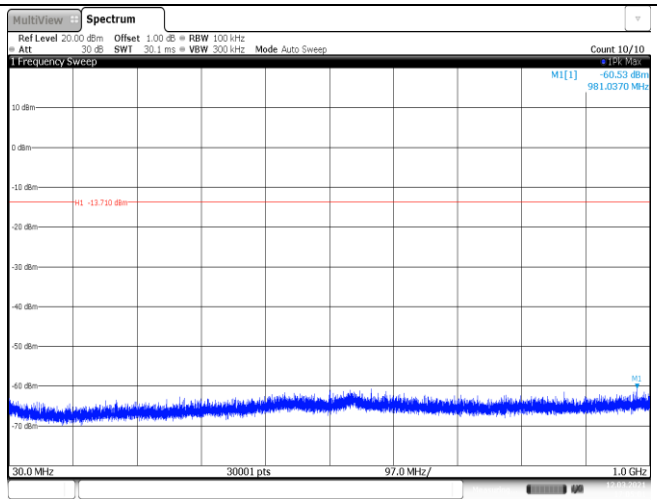
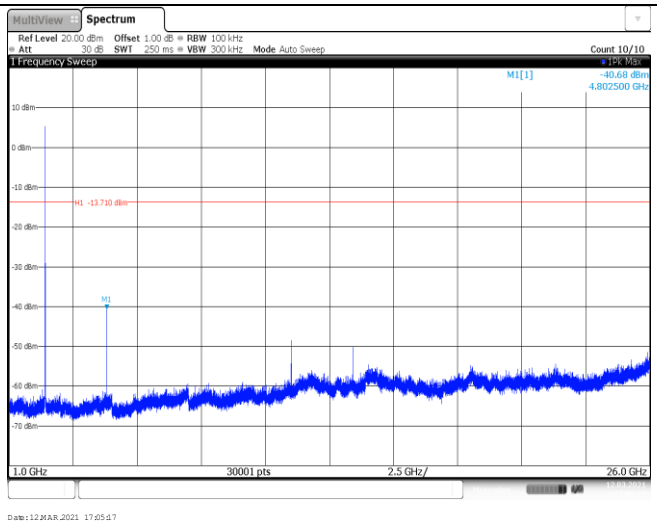
Test Item:	Band edge-1Mbps
CH00	
CH39	

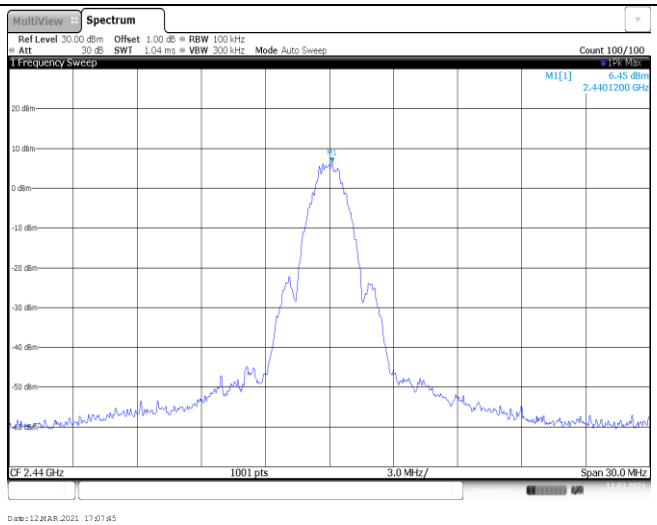
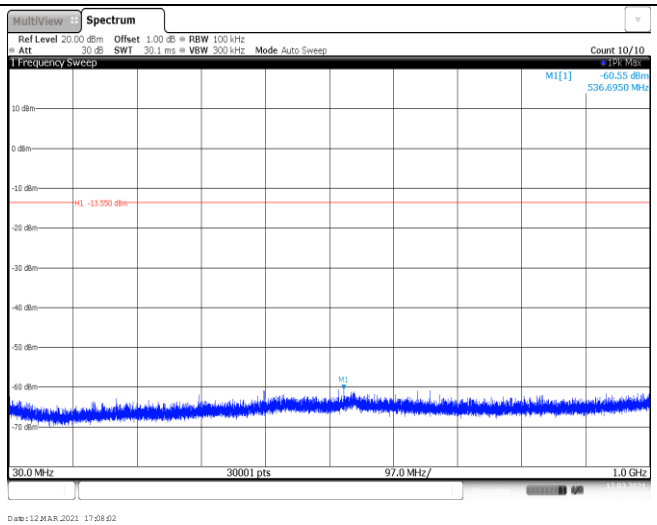
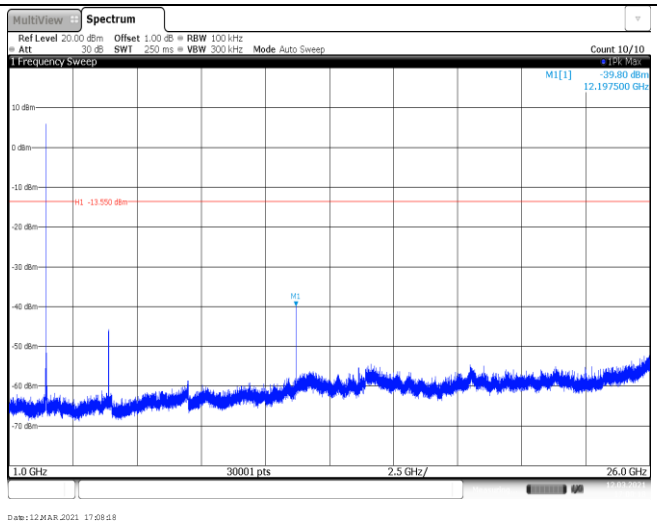
Test Item:	Band edge-2Mbps
CH00	
CH39	

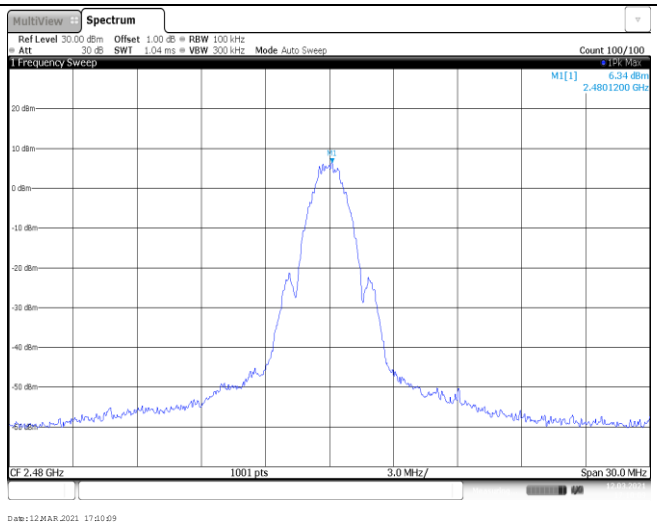
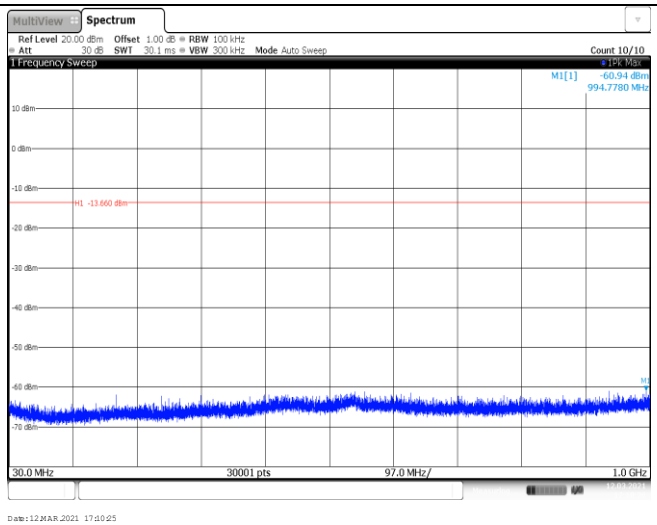
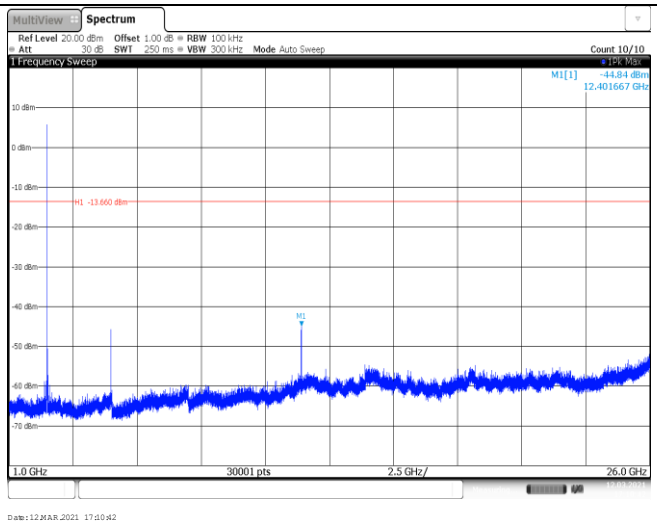
Test Item:	SE-1Mbps
CH00 Reference level	
CH00 30MHz~1000MHz	
CH00 1GHz~26GHz	

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

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

Test Item:	SE-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--------