APPENDIX REPORT

Project No.	SHT2101024701EW	Radio Specification	GFSK
Test sample No.	YPHT21010247005	Model No.	T-8196A
Start test date	2021-01-25	Finish date	2021-01-25
Temperature	24.9°C	Humidity	52%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhao

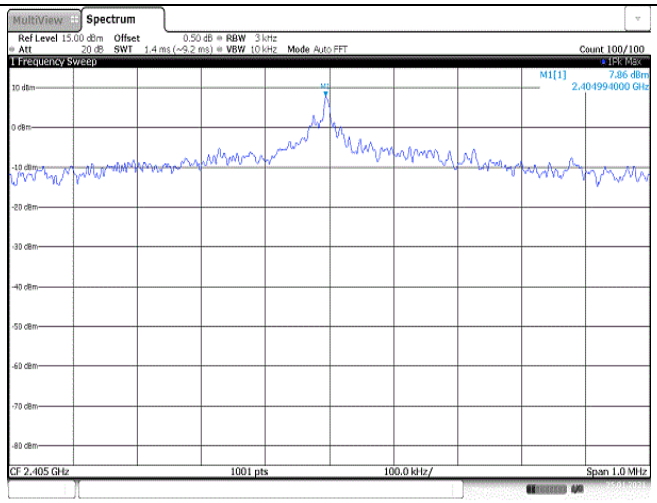
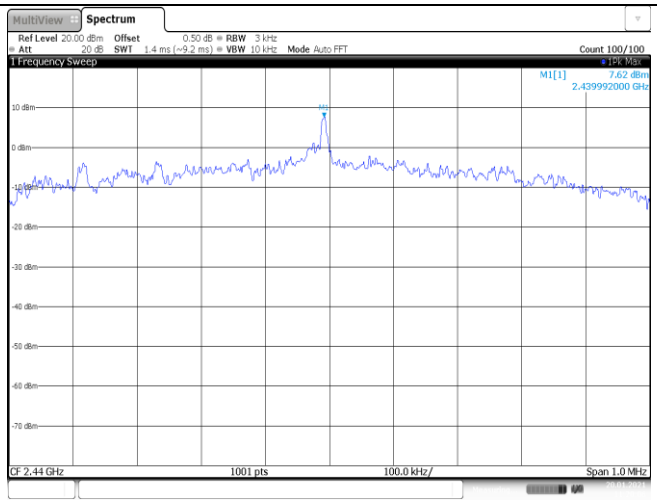
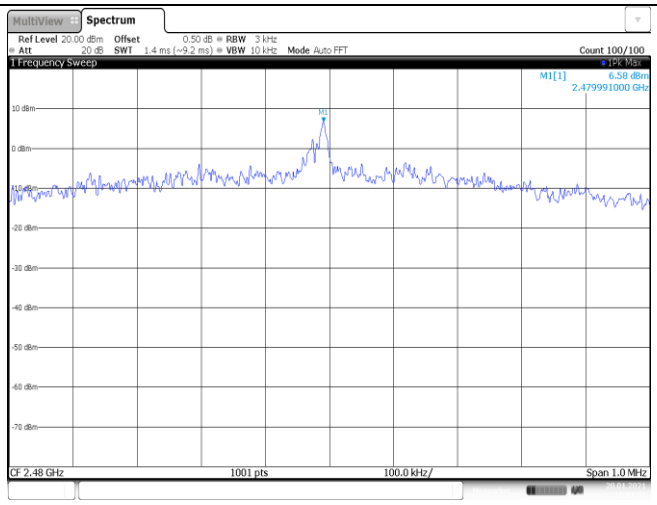
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

Appendix A：Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	CH-L	12.03	11.99	≤ 30.00	Pass
	CH-M	11.97	11.94		
	CH-H	11.23	11.21		

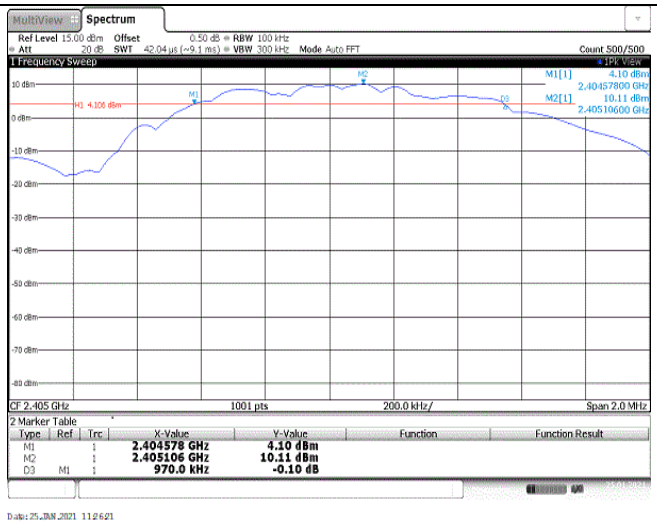
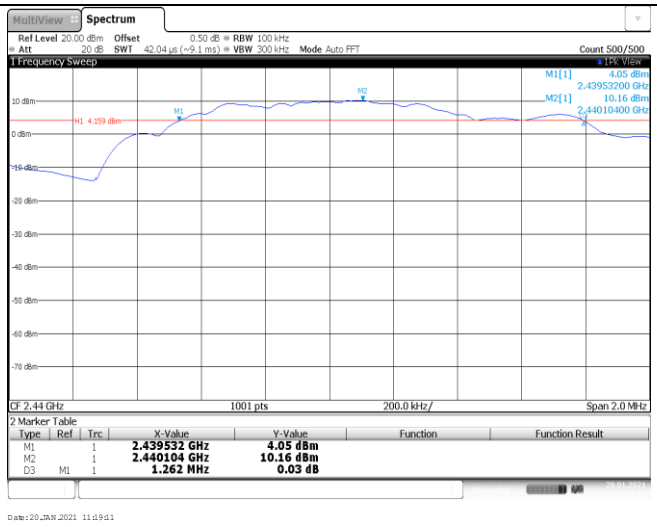
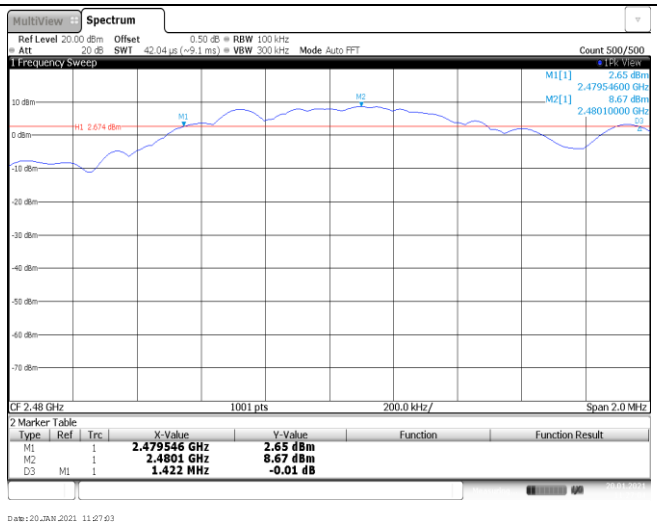
Appendix B：Power Spectral Density

Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
GFSK	CH-L	7.86	≤8.00	Pass
	CH-M	7.62		
	CH-H	6.58		

CH-L	 MultiView Spectrum Ref Level 15.00 dBm Offset 0.50 dB RBW 3 kHz Att 20 dB SWT 1.4 ms (~9.2 ms) VBW 10 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep 1Pk Max M1[1] 7.86 dBm 2.404994000 GHz CF 2.405 GHz 1001 pts 100.0 kHz/ Span 1.0 MHz
CH-M	 MultiView Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 3 kHz Att 20 dB SWT 1.4 ms (~9.2 ms) VBW 10 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep 1Pk Max M1[1] 7.62 dBm 2.439992000 GHz CF 2.44 GHz 1001 pts 100.0 kHz/ Span 1.0 MHz
CH-H	 MultiView Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 3 kHz Att 20 dB SWT 1.4 ms (~9.2 ms) VBW 10 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep 1Pk Max M1[1] 6.58 dBm 2.479991000 GHz CF 2.48 GHz 1001 pts 100.0 kHz/ Span 1.0 MHz

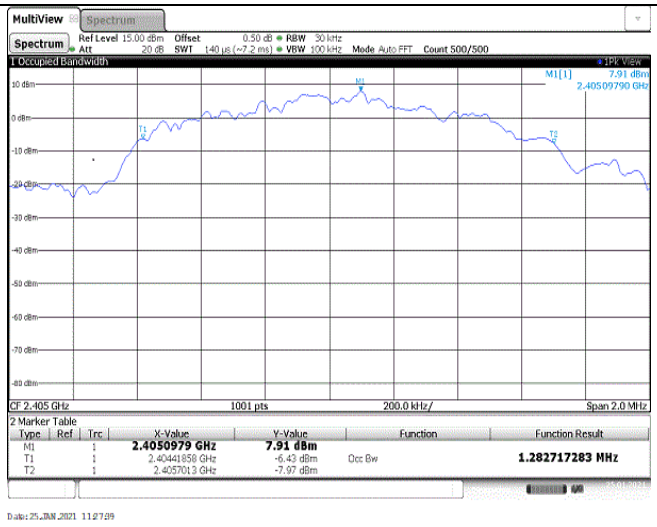
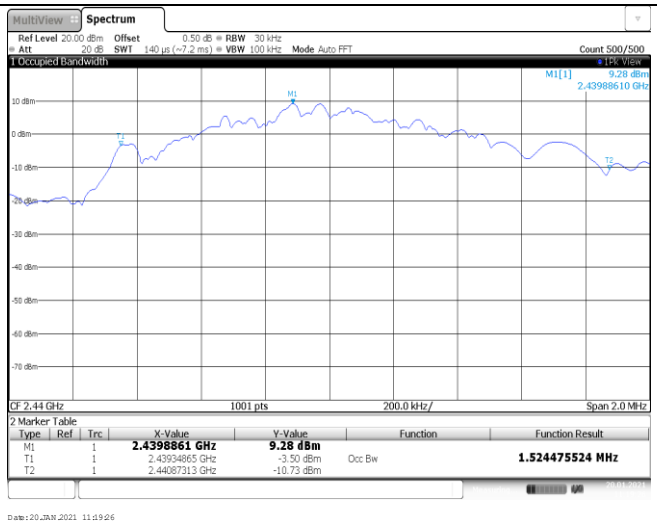
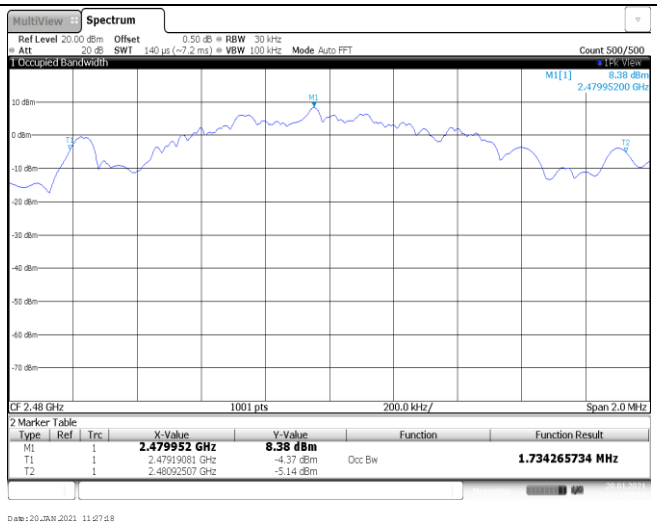
Appendix C：6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
GFSK	CH-L	970.00	≥500	Pass
	CH-M	1262.00		
	CH-H	1422.00		

CH-L	 MultiView Spectrum Ref Level 15.00 dBm Offset 0.50 dB RBW 100 kHz Att 20 dB SWT 42.04 µs (~9.1 ms) VBW 300 kHz Mode Auto FFT Count 500/500 1 Frequency Sweep 1Pk View M1[1] 4.10 dBm 2.40457800 GHz M2[1] 10.11 dBm 2.40510600 GHz CF 2.405 GHz 1001 pts 200.0 kHz/ Span 2.0 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 2.404578 GHz 4.10 dBm M2 1 2.405106 GHz 10.11 dBm D3 M1 1 970.0 kHz -0.10 dB
CH-M	 MultiView Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 20 dB SWT 42.04 µs (~9.1 ms) VBW 300 kHz Mode Auto FFT Count 500/500 1 Frequency Sweep 1Pk View M1[1] 4.05 dBm 2.43953200 GHz M2[1] 10.16 dBm 2.44010400 GHz CF 2.44 GHz 1001 pts 200.0 kHz/ Span 2.0 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 2.439532 GHz 4.05 dBm M2 1 2.440104 GHz 10.16 dBm D3 M1 1 1.262 MHz 0.03 dB
CH-H	 MultiView Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 20 dB SWT 42.04 µs (~9.1 ms) VBW 300 kHz Mode Auto FFT Count 500/500 1 Frequency Sweep 1Pk View M1[1] 2.65 dBm 2.47954600 GHz M2[1] 8.67 dBm 2.48010000 GHz CF 2.48 GHz 1001 pts 200.0 kHz/ Span 2.0 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 2.479546 GHz 2.65 dBm M2 1 2.4801 GHz 8.67 dBm D3 M1 1 1.422 MHz -0.01 dB

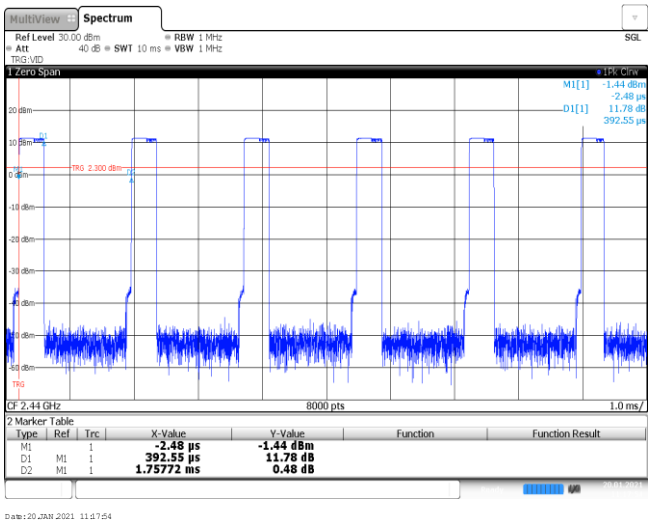
Appendix D：99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
GFSK	CH-L	1.28	-	Pass
	CH-M	1.52		
	CH-H	1.73		

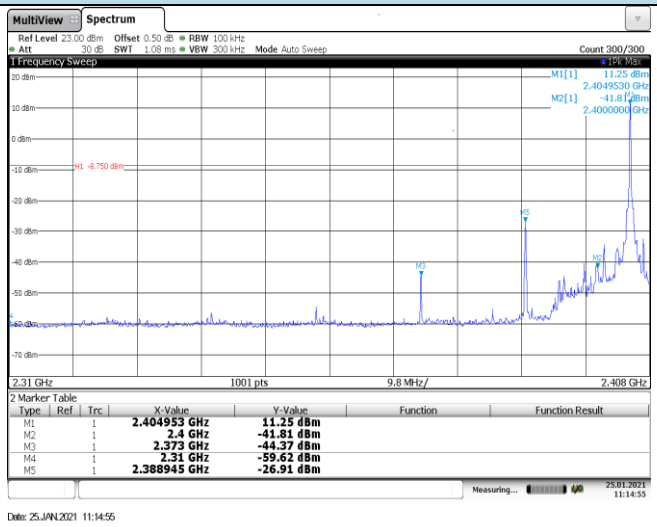
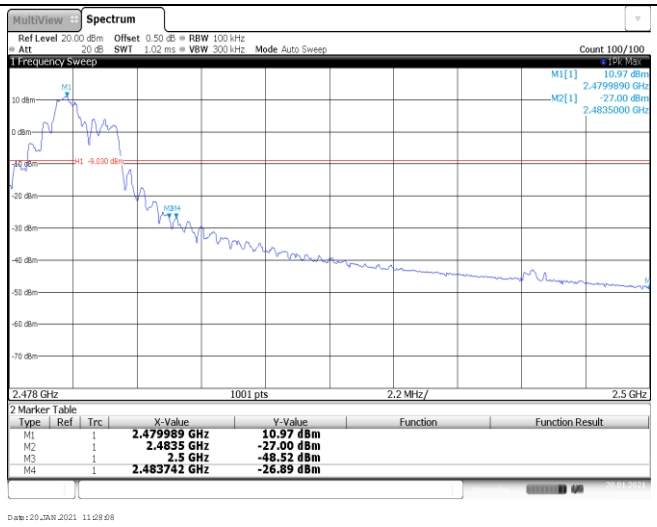
CH-L	 MultiView Spectrum Ref Level 15.00 dBm Offset 0.50 dB RBW 30 kHz Att 20 dB SWT 140 µs (~7.2 ms) VBW 100 kHz Mode Auto FFT Count 500/500 1 Occupied Bandwidth 1Pk View M1[1] 7.91 dBm 2.40509790 GHz CF 2.405 GHz 1001 pts 200.0 kHz/ Span 2.0 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 2.4050979 GHz 7.91 dBm T1 1 2.40441858 GHz -6.43 dBm Occ Bw 1.282717283 MHz T2 1 2.40570113 GHz -7.97 dBm Date: 25.JAN.2021 11:27:09
CH-M	 MultiView Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 30 kHz Att 20 dB SWT 140 µs (~7.2 ms) VBW 100 kHz Mode Auto FFT Count 500/500 1 Occupied Bandwidth 1Pk View M1[1] 9.28 dBm 2.43988610 GHz CF 2.44 GHz 1001 pts 200.0 kHz/ Span 2.0 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 2.4398861 GHz 9.28 dBm T1 1 2.43934865 GHz -3.50 dBm Occ Bw 1.524475524 MHz T2 1 2.44087313 GHz -10.73 dBm Date: 20.JAN.2021 11:19:26
CH-H	 MultiView Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 30 kHz Att 20 dB SWT 140 µs (~7.2 ms) VBW 100 kHz Mode Auto FFT Count 500/500 1 Occupied Bandwidth 1Pk View M1[1] 8.38 dBm 2.47995200 GHz CF 2.48 GHz 1001 pts 200.0 kHz/ Span 2.0 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 2.479952 GHz 8.38 dBm T1 1 2.47919081 GHz -4.37 dBm Occ Bw 1.734265734 MHz T2 1 2.48092507 GHz -5.14 dBm Date: 20.JAN.2021 11:27:18

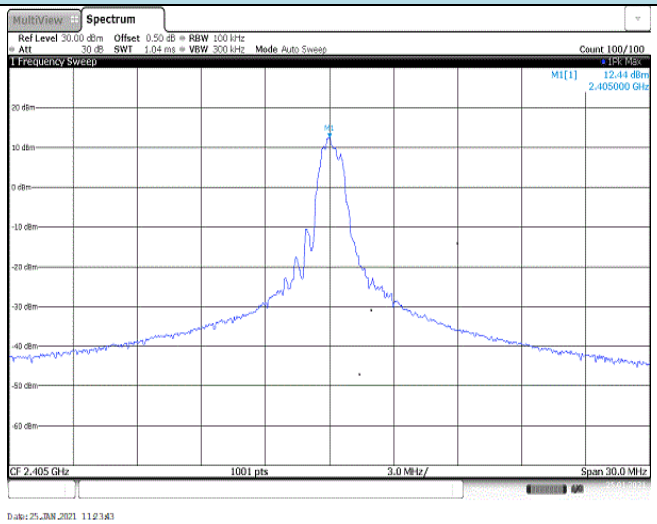
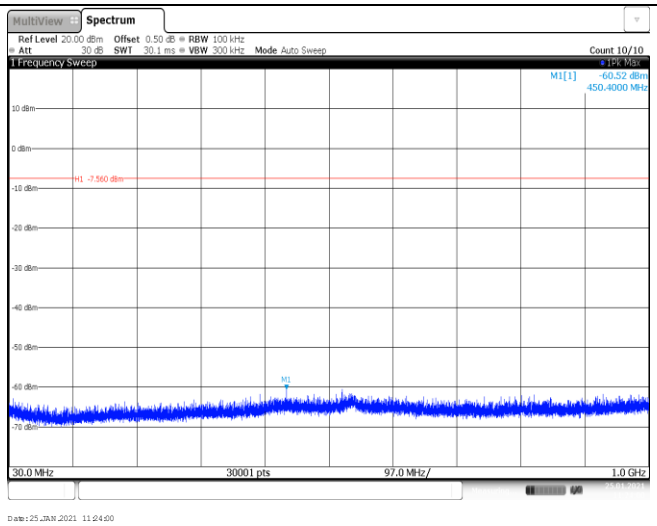
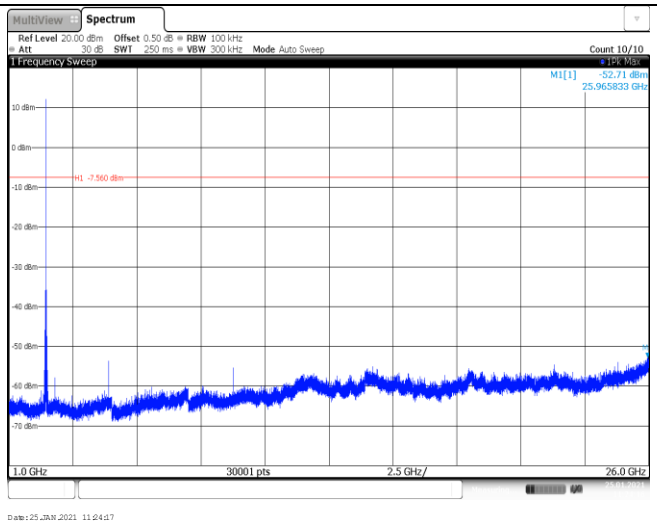
Appendix E：Duty cycle

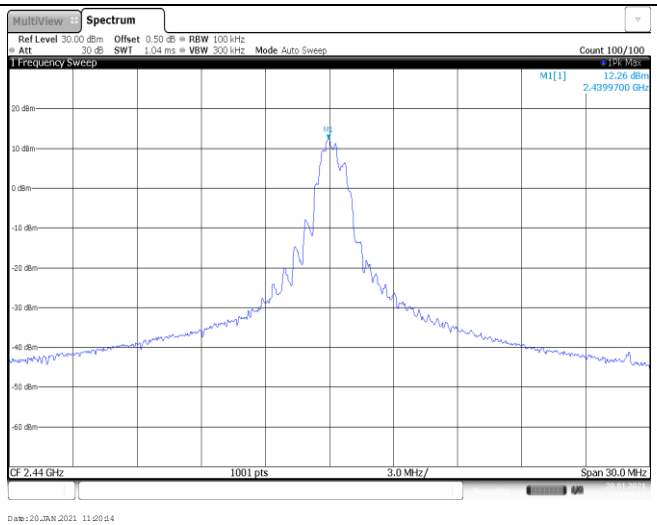
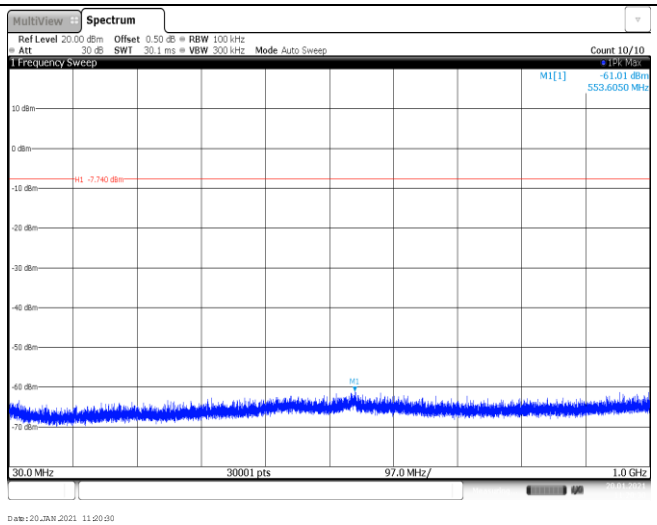
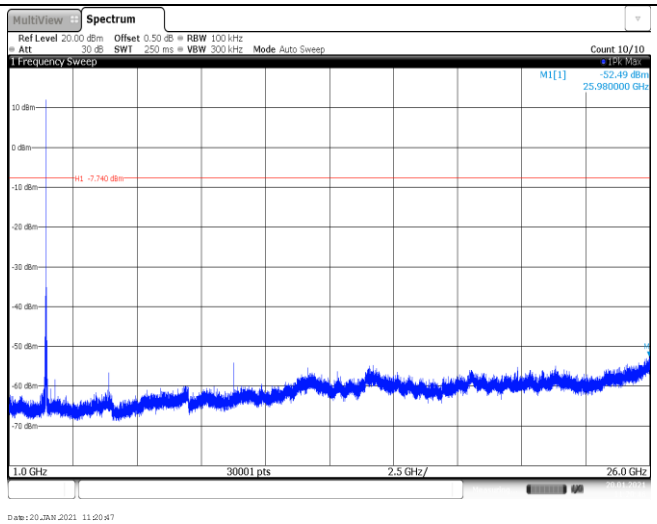
Test Frequency （MHz）	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
2440	0.39	1.76	22.2%	2.6

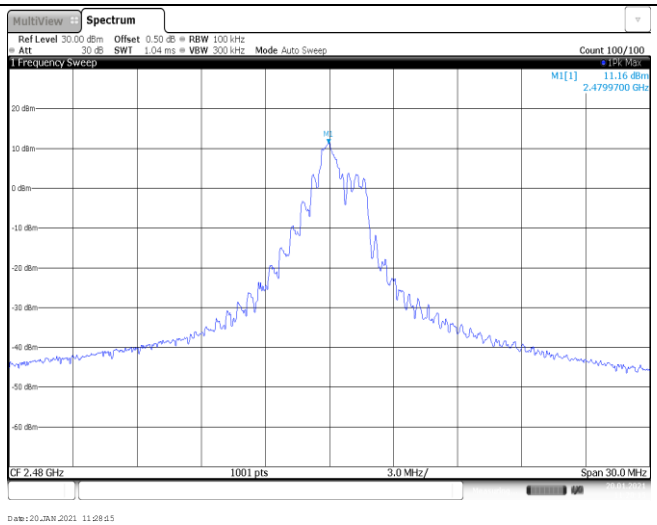
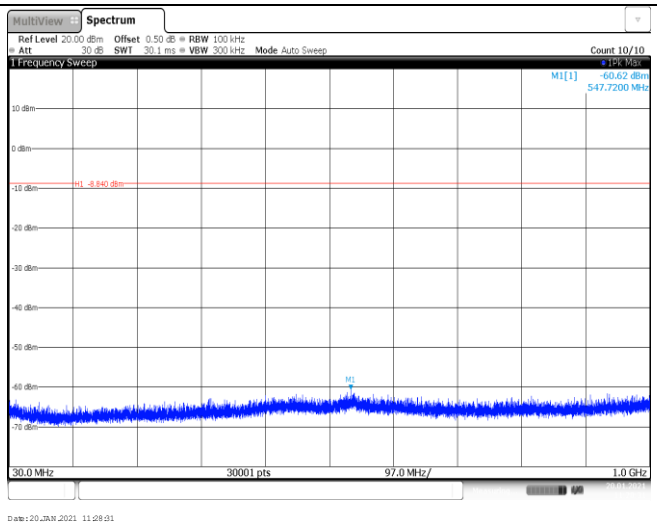
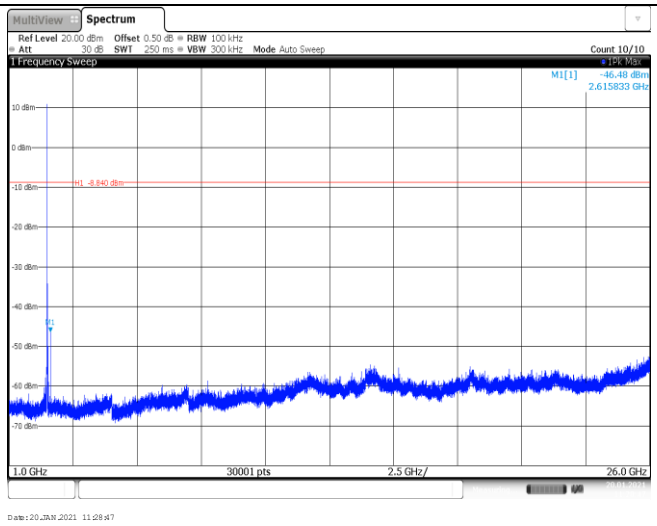


Appendix F：Band edge and Spurious Emissions (conducted)

Test Item:	Band edge
CH-L	
CH-H	

Test Item:	SE
CH-L Reference level	
CH-L 30MHz~1000MHz	
CH-L 1GHz~26GHz	

CH-M Reference level	
CH-M 30MHz~1000MHz	
CH-M 1GHz~26GHz	

CH-H Reference level	
CH-H 30MHz~1000MHz	
CH-H 1GHz~26GHz	

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