

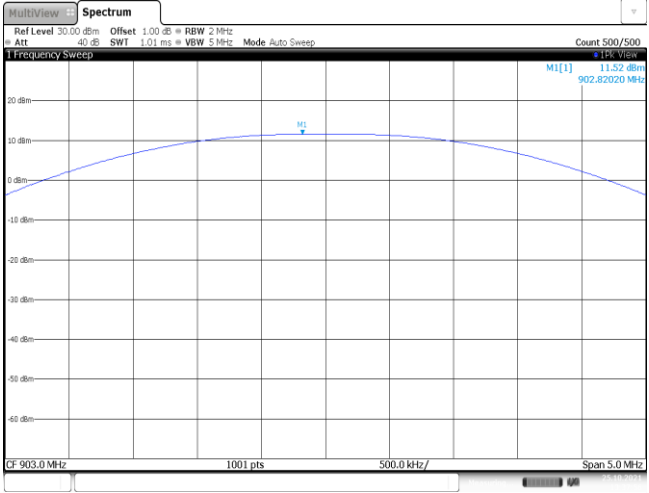
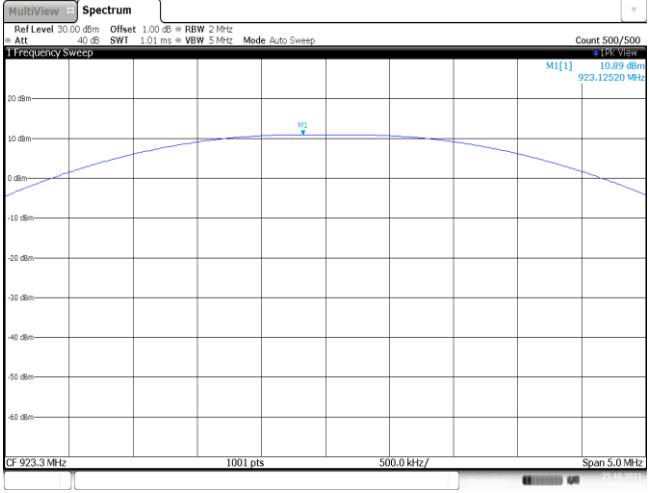
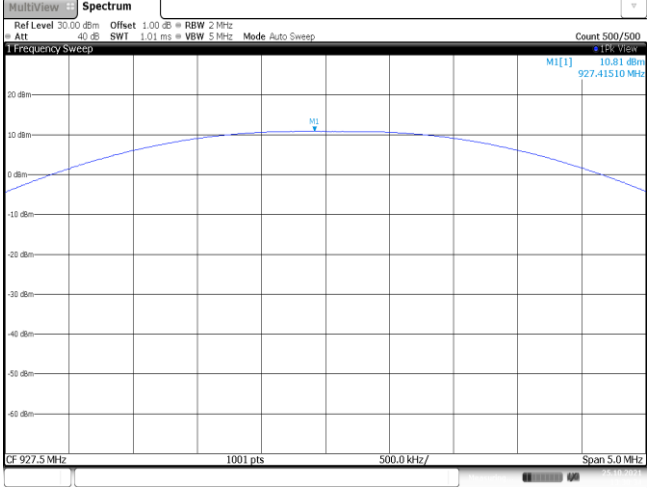
APPENDIX REPORT

Project No.	SHT2107136401EW	Radio Specification	LORA
Test sample No.	YPHT21071364015	Model No.	S3-915M
Start test date	2021-10-25	Finish date	2021-10-25
Temperature	24.8℃	Humidity	35%
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

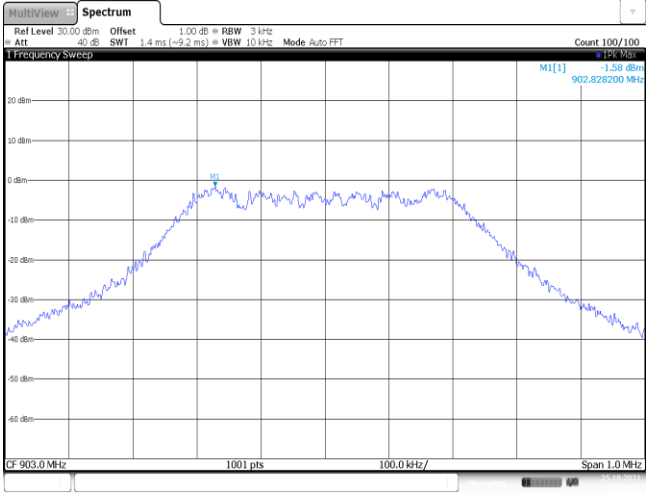
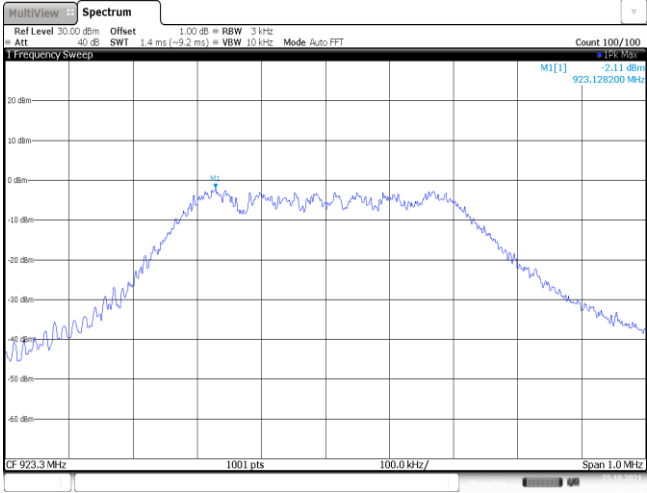
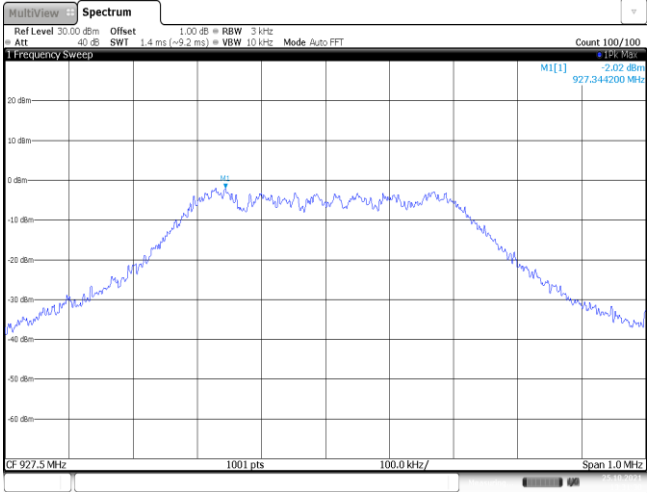
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
CSS	CH _L	11.52	11.47	≤ 30.00	Pass
	CH _M	10.89	10.86		
	CH _H	10.81	10.77		

CH _L	 Ref Level 30.00 dBm Offset 1.00 dB RBW 2 MHz Att 40 dB SWF 1.01 ms VBW 5.0kHz Mode Auto Sweep Count 500/500 M1[1] 11.52 dBm 902.82020 MHz CF 903.0 MHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 25.DCT.2021 13:07:56
CH _M	 Ref Level 30.00 dBm Offset 1.00 dB RBW 2 MHz Att 40 dB SWF 1.01 ms VBW 5.0kHz Mode Auto Sweep Count 500/500 M1[1] 10.89 dBm 923.12520 MHz CF 923.3 MHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 25.DCT.2021 13:50:09
CH _H	 Ref Level 30.00 dBm Offset 1.00 dB RBW 2 MHz Att 40 dB SWF 1.01 ms VBW 5.0kHz Mode Auto Sweep Count 500/500 M1[1] 10.81 dBm 927.41510 MHz CF 927.5 MHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 25.DCT.2021 13:00:04

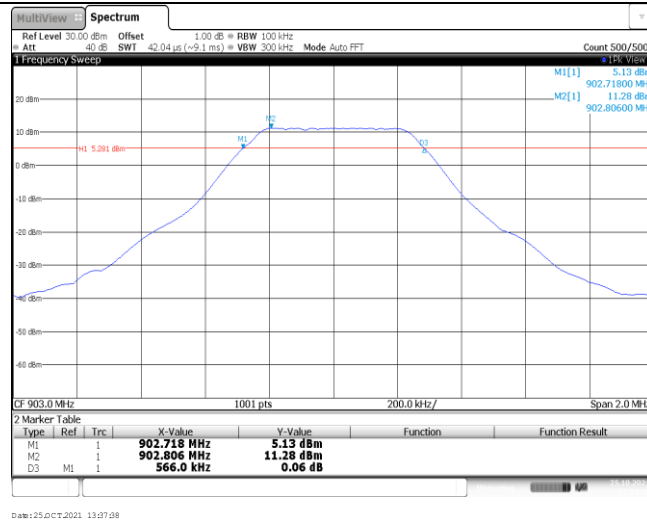
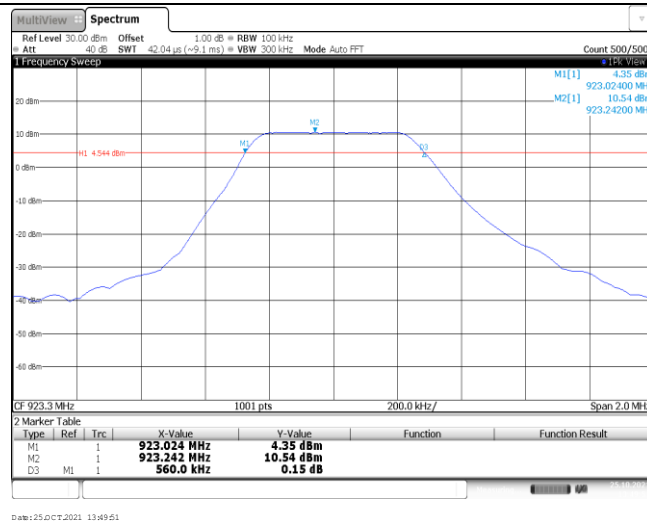
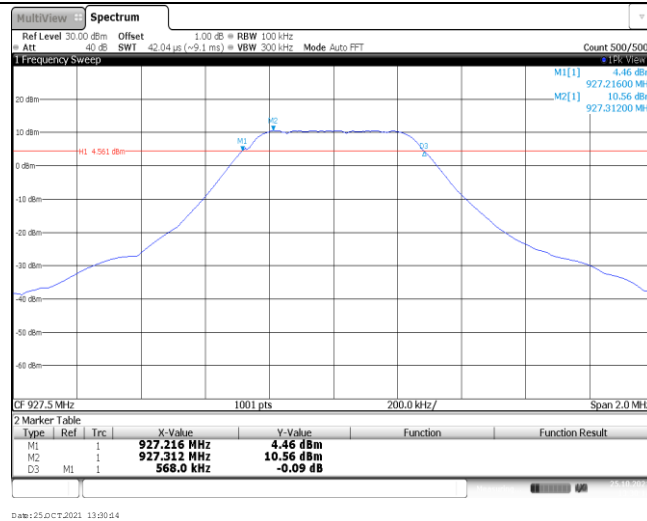
Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
CSS	CH _L	-1.58	≤8.00	Pass
	CH _M	-2.11		
	CH _H	-2.02		

CH _L	 MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 3 kHz Att 40 dB SWI 1.4 ms (-2.2 ms) VBW 10 kHz Mode Auto FFT Count 100/100 MI[1] -1.58 dBm 902.828200 MHz CF 903.0 MHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 25.DCT.2021 13:58:32
CH _M	 MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 3 kHz Att 40 dB SWI 1.4 ms (-2.2 ms) VBW 10 kHz Mode Auto FFT Count 100/100 MI[1] -2.11 dBm 923.128200 MHz CF 923.3 MHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 25.DCT.2021 13:59:46
CH _H	 MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 3 kHz Att 40 dB SWI 1.4 ms (-2.2 ms) VBW 10 kHz Mode Auto FFT Count 100/100 MI[1] -2.02 dBm 927.344200 MHz CF 927.5 MHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 25.DCT.2021 13:01:50

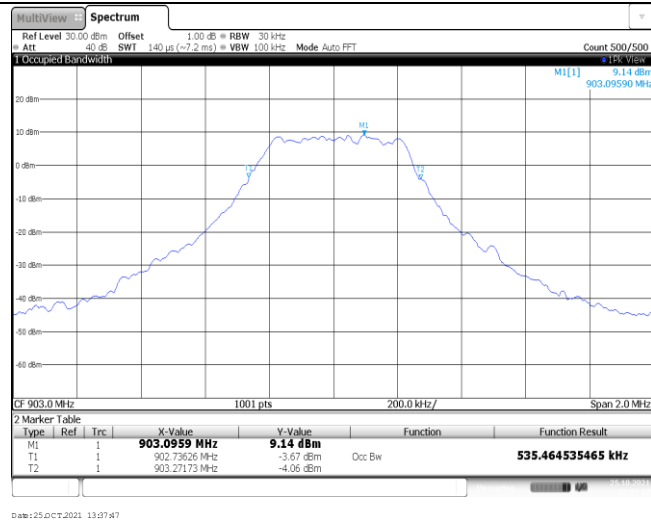
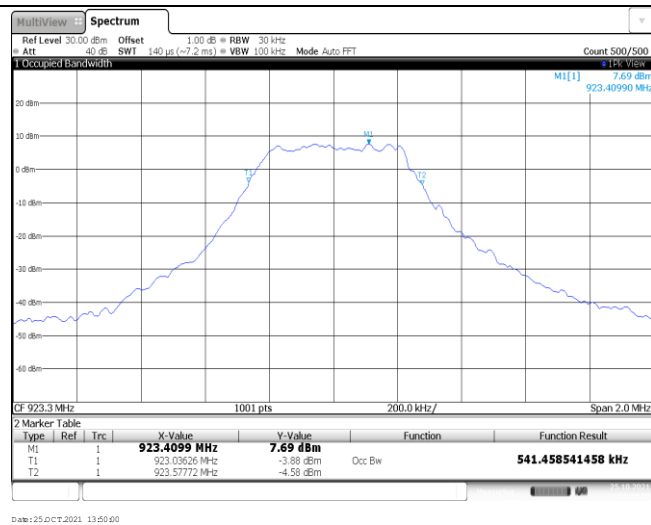
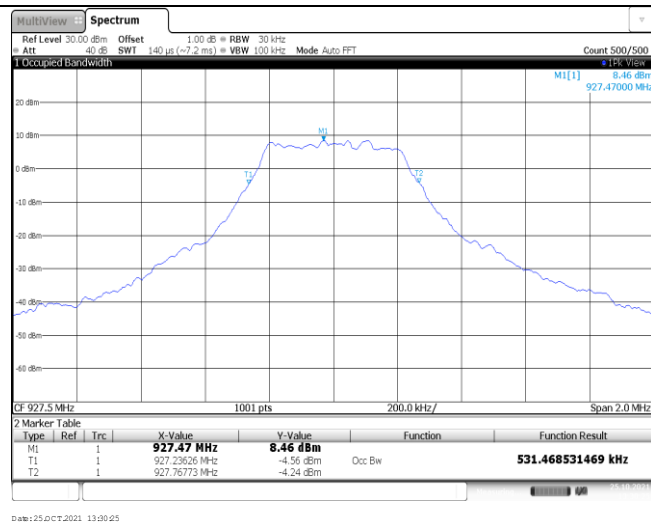
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
CSS	CH _L	566.00	≥500	Pass
	CH _M	560.00		
	CH _H	568.00		

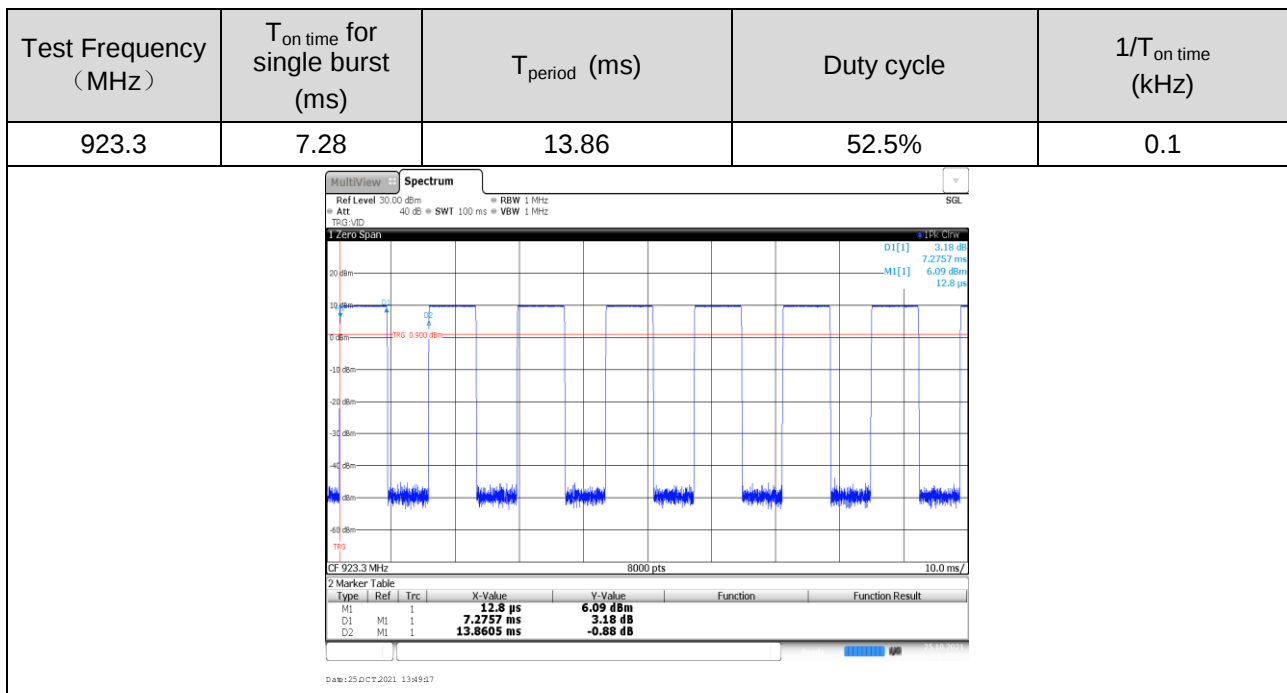
CH_LCH_MCH_H

Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
CSS	CH _L	0.54	-	Pass
	CH _M	0.54		
	CH _H	0.53		

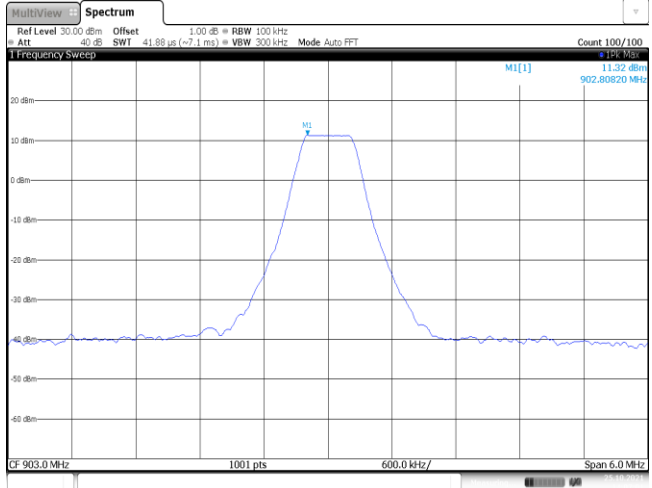
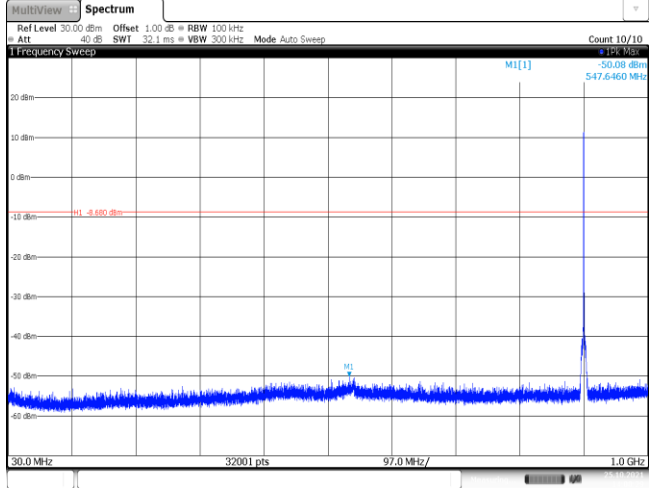
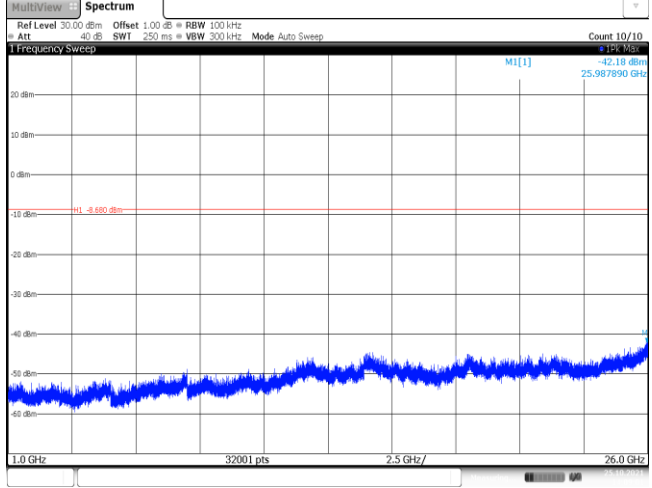
CH_LCH_MCH_H

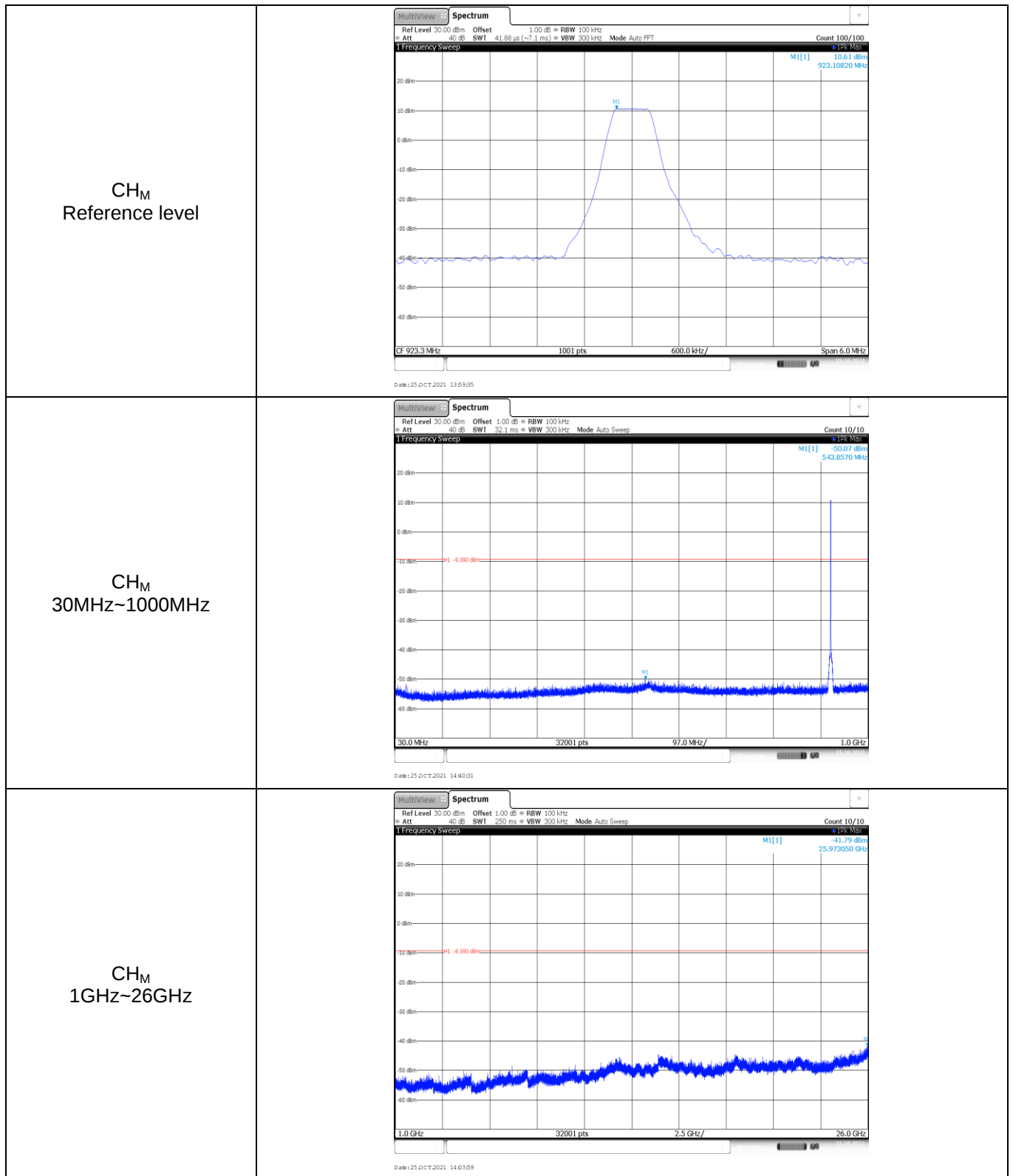
Appendix E: Duty cycle

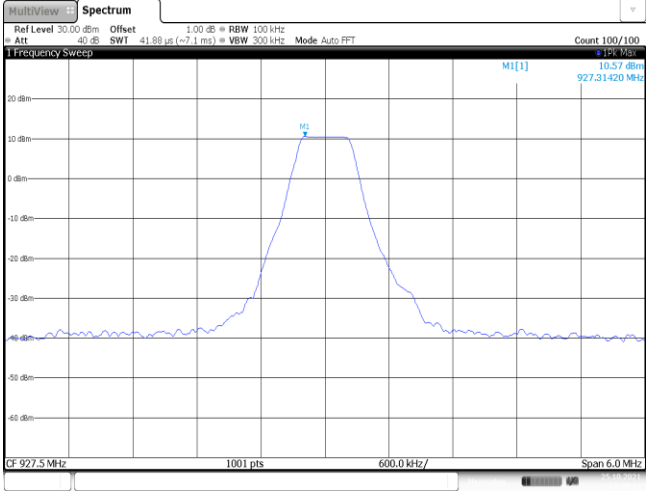
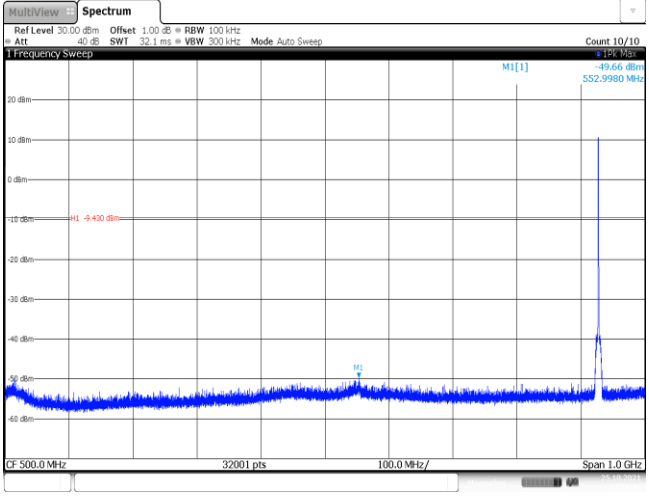
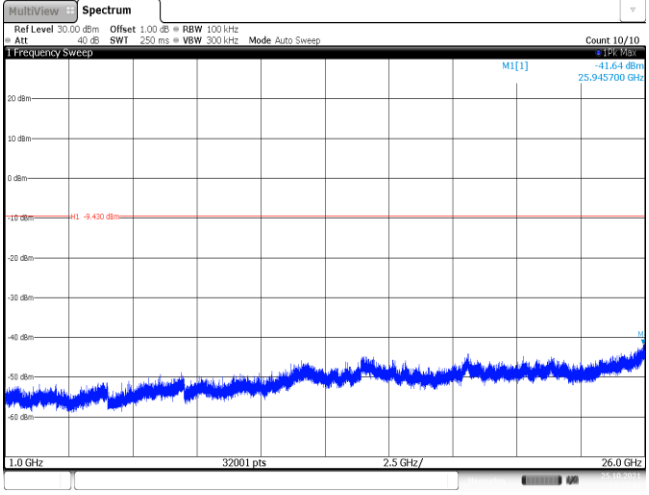


Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge
CH _L	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 40 dB SWI 41.88 μs (≈7.1 ms) VBW 300 kHz Mode Auto FFT Count 300/300 1 Frequency Sweep

Test Item:	SE
CH _L Reference level	 The spectrum plot shows a single peak at 903.0 MHz. The y-axis represents power in dBm, ranging from -60 to 20. The x-axis represents frequency in MHz, ranging from 900 to 906. The peak is labeled M1[1] with a value of 11.32 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 30.00 dBm, Offset 1.00 dB, RBW 100 kHz, Mode Auto FFT, Count 100/100, and Span 6.0 MHz.
CH _L 30MHz~1000MHz	 The spectrum plot shows a peak at 547.6460 MHz. The y-axis represents power in dBm, ranging from -60 to 20. The x-axis represents frequency in MHz, ranging from 30 to 1000. The peak is labeled M1[1] with a value of -50.08 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 30.00 dBm, Offset 1.00 dB, RBW 100 kHz, Mode Auto Sweep, Count 10/10, and Span 97.0 MHz.
CH _L 1GHz~26GHz	 The spectrum plot shows a peak at 25.987890 GHz. The y-axis represents power in dBm, ranging from -60 to 20. The x-axis represents frequency in GHz, ranging from 1.0 to 26.0. The peak is labeled M1[1] with a value of -42.18 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 30.00 dBm, Offset 1.00 dB, RBW 100 kHz, Mode Auto Sweep, Count 10/10, and Span 2.5 GHz.



CH_H Reference level	 -----
CH_H 30MHz~1000MHz	 -----
CH_H 1GHz~26GHz	 -----

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