

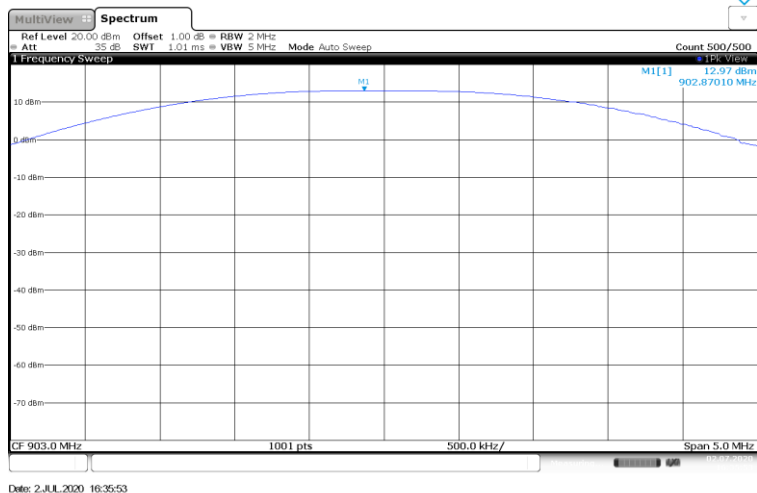
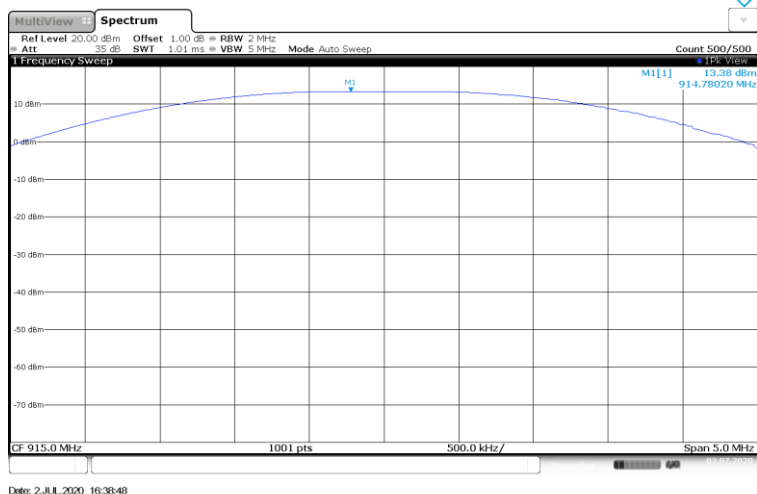
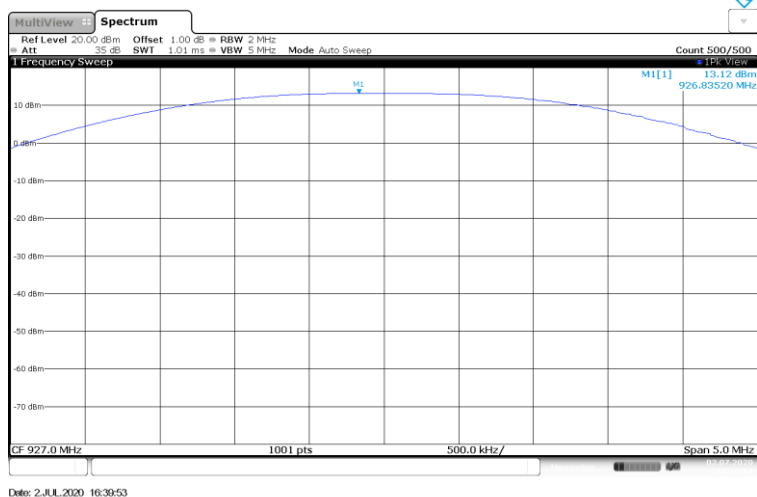
APPENDIX REPORT

Project No.	SHT2006000607EW		
Test sample No.	YPHT20060006016	Model No.	YL-900IL-915M
Start test date	2020/7/2	Finish date	2020/7/2
Temperature	25°C	Humidity	50%
Test Engineer	Caspar Chen	Auditor	<i>William . wang</i>

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

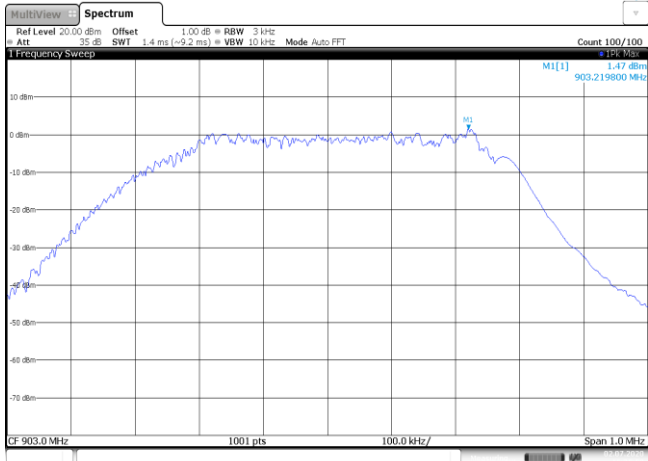
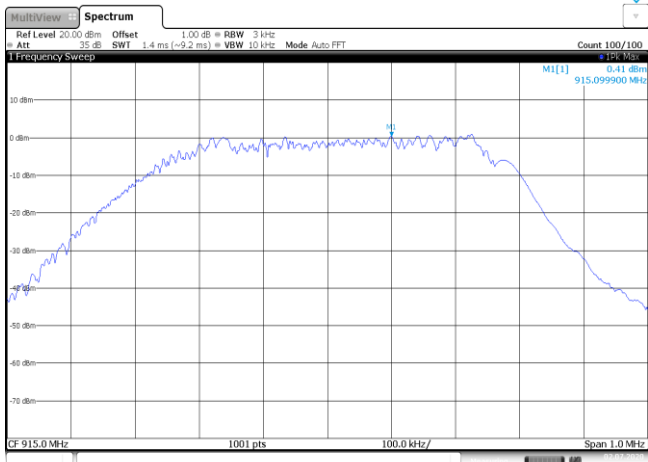
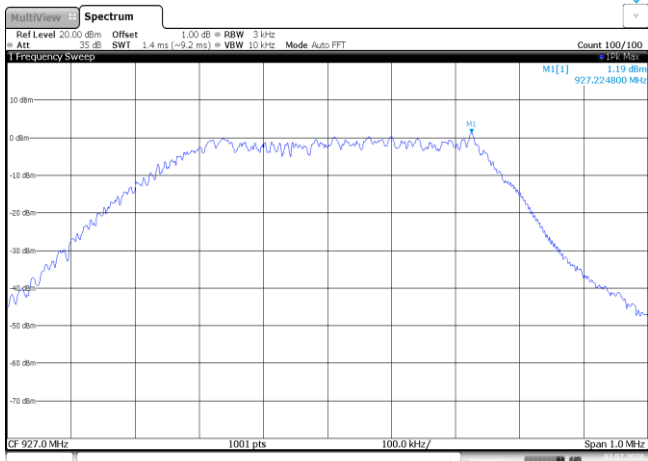
Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Limit (dBm)	Result
GFSK	CH _L	12.97	≤30.00	Pass
	CH _M	13.38		
	CH _H	13.12		

CH_LCH_MCH_H

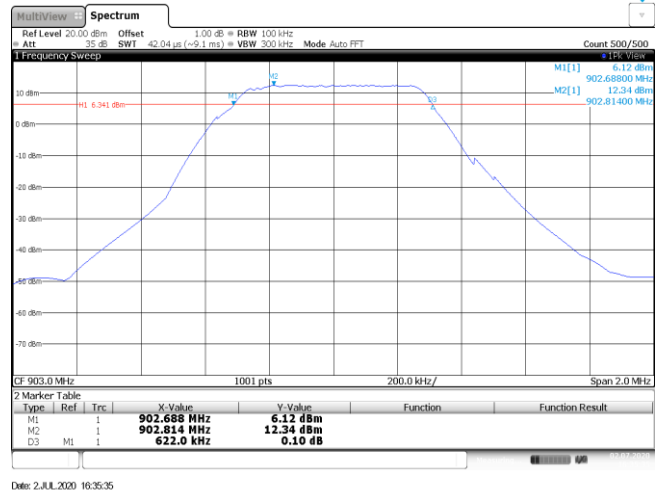
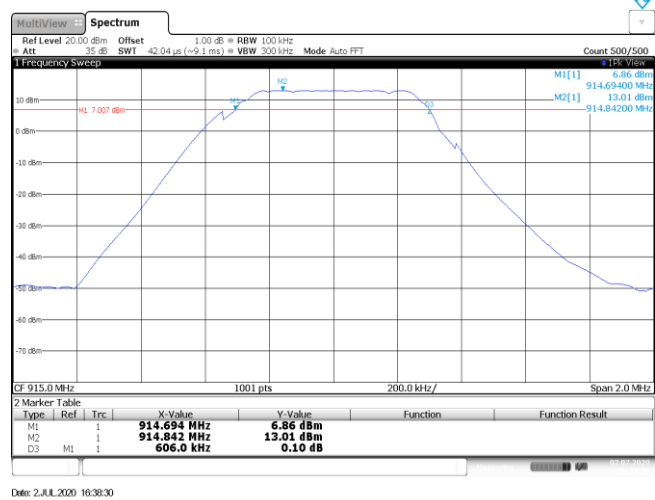
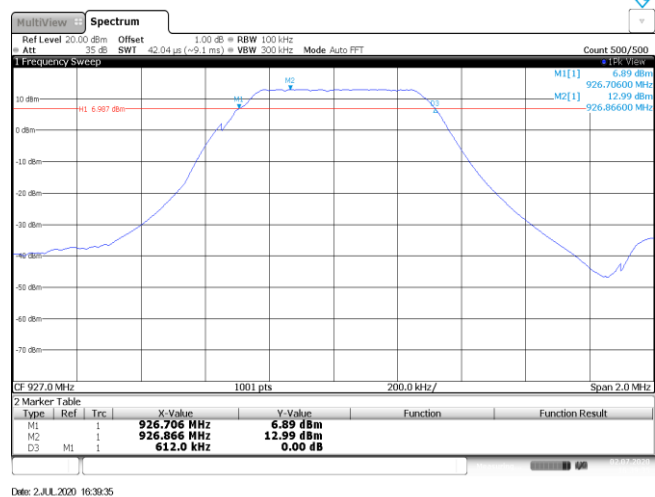
Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
GFSK	CH _L	1.47	≤8.00	Pass
	CH _M	0.41		
	CH _H	1.19		

CH _L	 The spectrum plot for CH_L shows a peak at 903.215800 MHz. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in MHz, with a span of 1.0 MHz. The plot shows a broad peak with some noise. The peak is labeled with a blue 'X' and the text 'M1[1]'. The peak value is 1.47 dBm. CF 903.0 MHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 2.JUL.2020 16:36:00
CH _M	 The spectrum plot for CH_M shows a peak at 915.099600 MHz. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in MHz, with a span of 1.0 MHz. The plot shows a broad peak with some noise. The peak is labeled with a blue 'X' and the text 'M1[1]'. The peak value is 0.41 dBm. CF 915.0 MHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 2.JUL.2020 16:36:54
CH _H	 The spectrum plot for CH_H shows a peak at 927.224800 MHz. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in MHz, with a span of 1.0 MHz. The plot shows a broad peak with some noise. The peak is labeled with a blue 'X' and the text 'M1[1]'. The peak value is 1.13 dBm. CF 927.0 MHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 2.JUL.2020 16:36:59

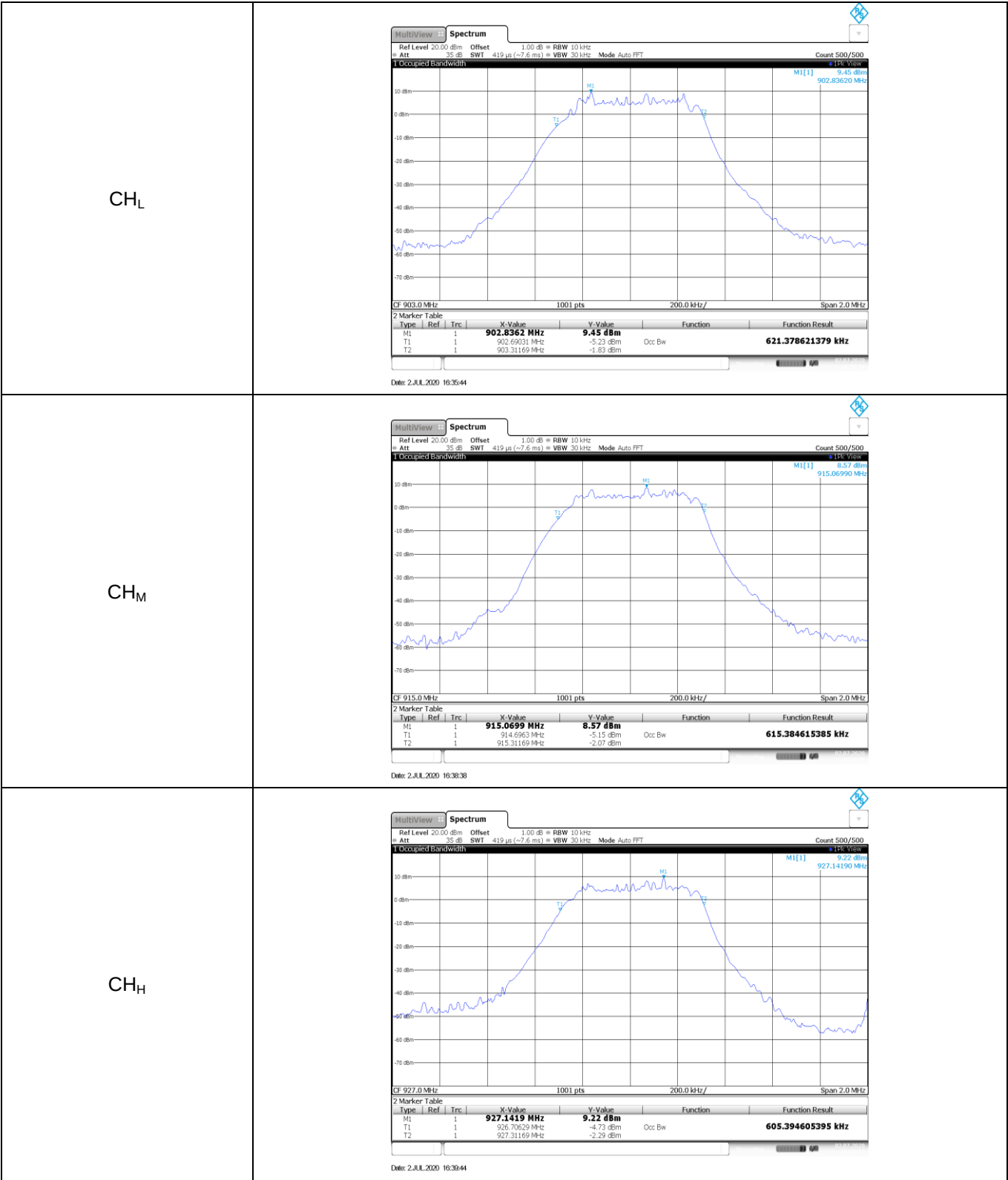
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
GFSK	CH _L	622.00	≥500	Pass
	CH _M	606.00		
	CH _H	612.00		

$$\text{CH}_L$$

$$\text{CH}_M$$

$$\text{CH}_H$$


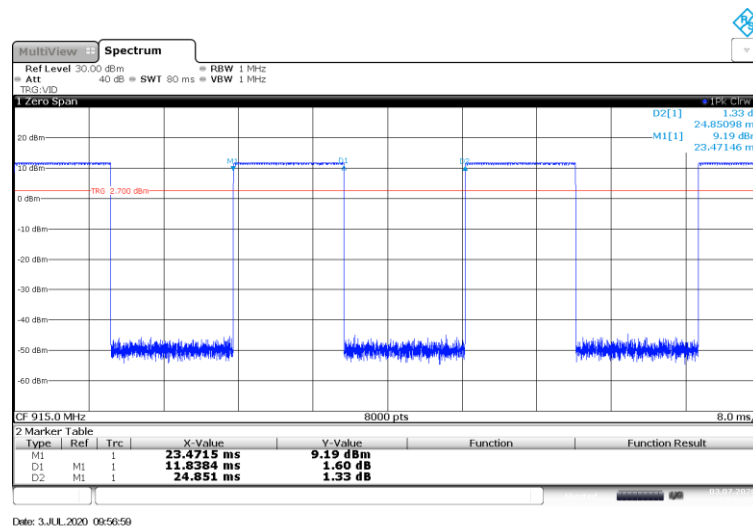
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
GFSK	CH _L	0.62	-	Pass
	CH _M	0.62		
	CH _H	0.61		

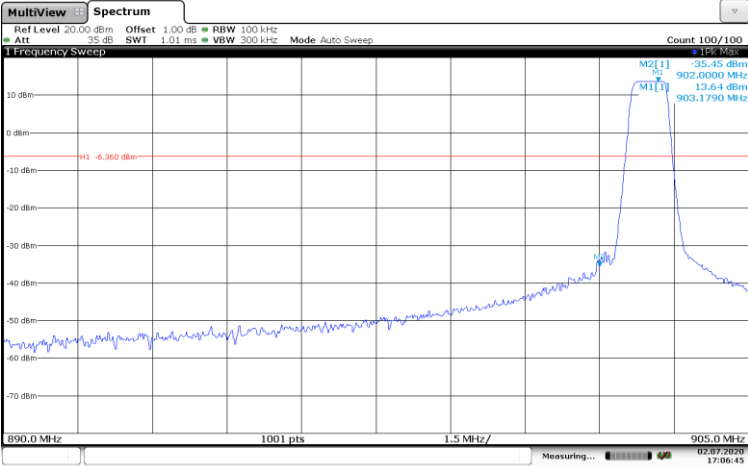
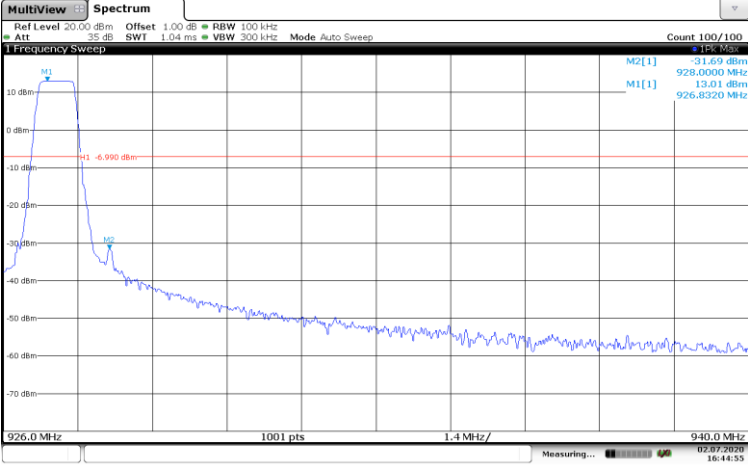


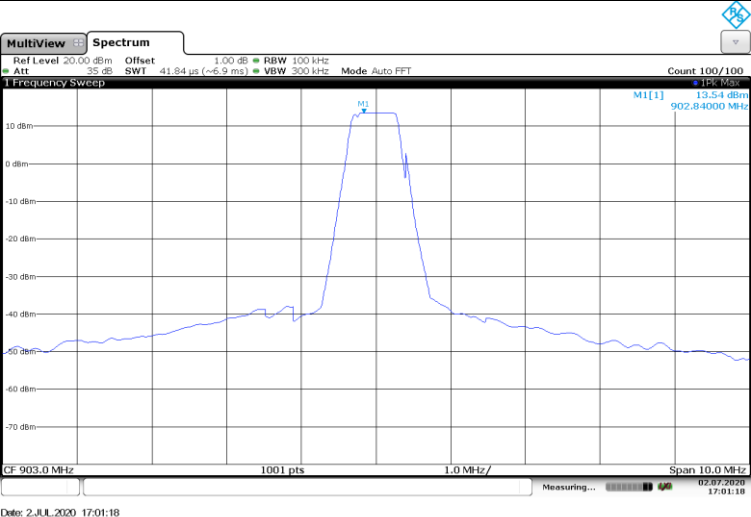
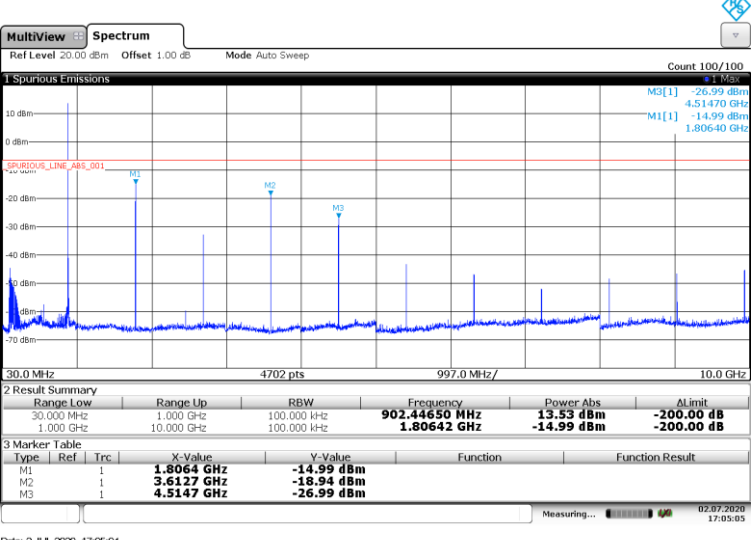
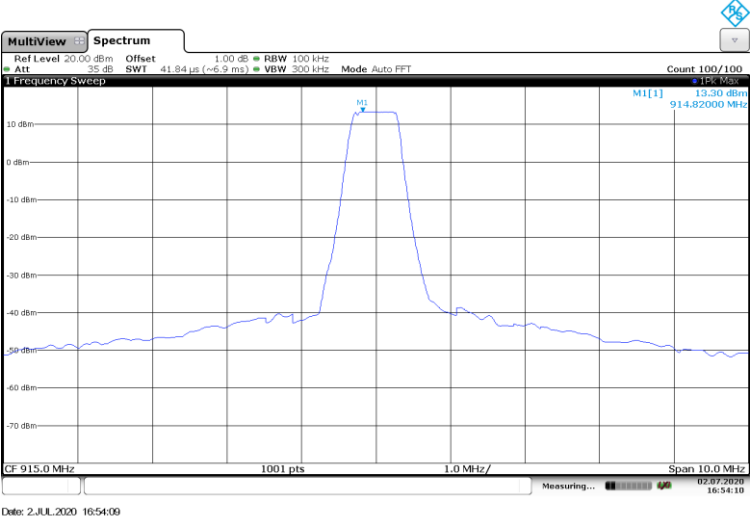
Appendix E: Duty cycle

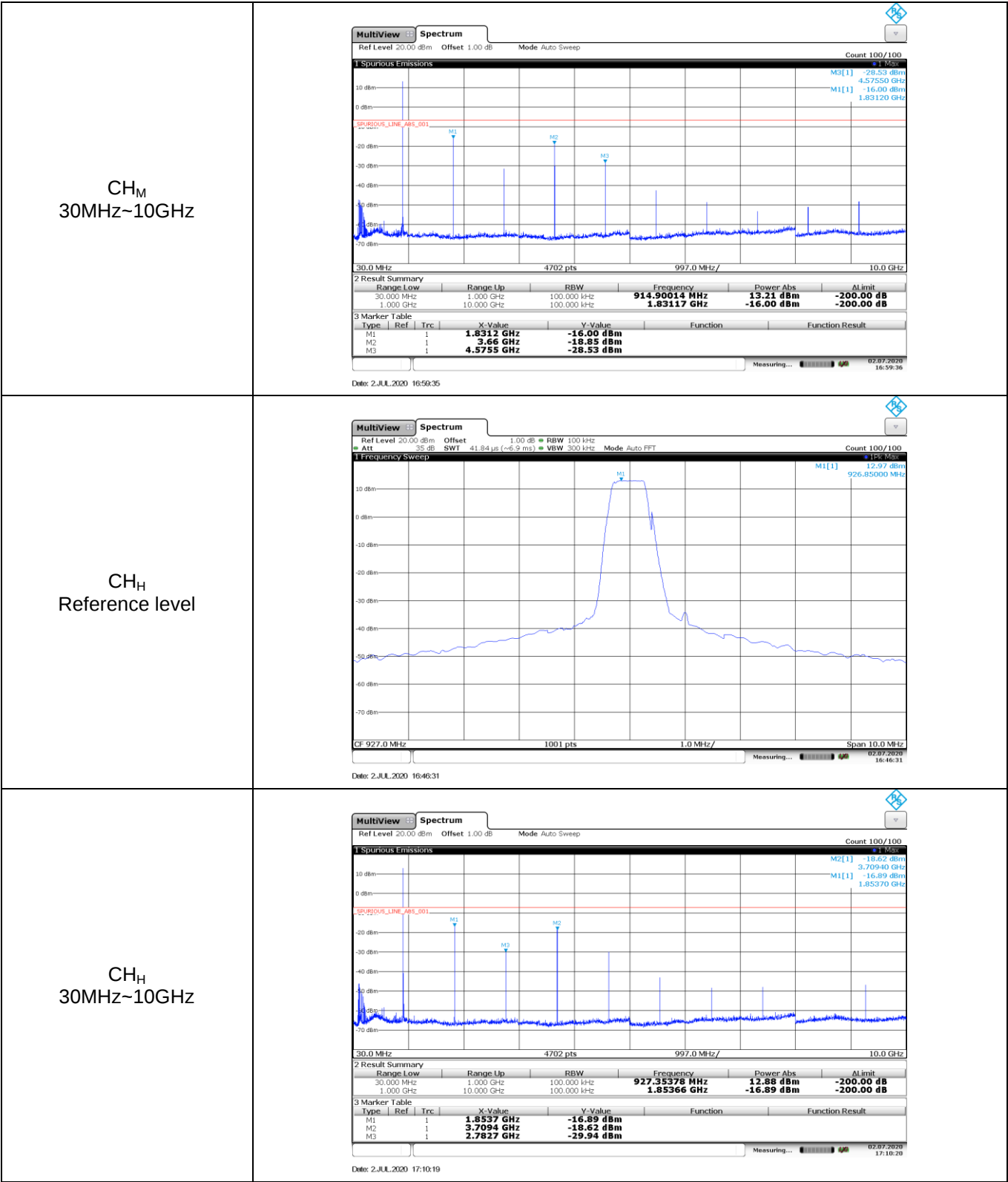
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
915	11.8384	24.851	47.6%	0.1



Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge
CH _L	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SW1 1.01 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M2[1] -35.45 dBm M1[1] 13.64 dBm 902.0000 MHz 903.1790 MHz 890.0 MHz 1001 pts 1.5 MHz/ 905.0 MHz Measuring... 02:57:20 17:06:45 Date: 2.JUL.2020 17:06:44
CH _H	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SW1 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M2[1] -31.69 dBm M1[1] 13.01 dBm 928.0000 MHz 926.8320 MHz 926.0 MHz 1001 pts 1.4 MHz/ 940.0 MHz Measuring... 02:57:20 16:44:55 Date: 2.JUL.2020 16:44:54

Test Item:	SE
CH _L Reference level	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWI 41.84 μs (~6.9 ms) VBW 300 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep M1 13.54 dBm M1[1] 902.84000 MHz CF 903.0 MHz 1001 pts 1.0 MHz/ Span 10.0 MHz Measuring... 02:07:20 17:01:18 Date: 2.JUL.2020 17:01:18
CH _L 30MHz~10GHz	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB Mode Auto Sweep Count 100/100 1 Spurious Emissions M3 13.54 dBm M3[1] 4.51470 GHz M1 13.54 dBm M1[1] 1.80640 GHz SPURIOUS_LINE_AMB_001 M1 13.54 dBm M2 13.54 dBm M3 13.54 dBm 30.0 MHz 4702 pts 997.0 MHz/ 10.0 GHz 2 Result Summary Range Low Range Up RBW Frequency Power Abs ΔLimit 30.000 MHz 1.000 GHz 100.000 kHz 902.44650 MHz 13.53 dBm -200.00 dB 1.000 GHz 10.000 GHz 100.000 kHz 1.80642 GHz -14.99 dBm -200.00 dB 3 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 1 1.8064 GHz -14.99 dBm M2 1 1 3.6127 GHz -18.94 dBm M3 1 1 4.5147 GHz -26.99 dBm Measuring... 02:07:20 17:05:05 Date: 2.JUL.2020 17:05:04
CH _M Reference level	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWI 41.84 μs (~6.9 ms) VBW 300 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep M1 13.30 dBm M1[1] 914.82000 MHz CF 915.0 MHz 1001 pts 1.0 MHz/ Span 10.0 MHz Measuring... 02:07:20 16:54:10 Date: 2.JUL.2020 16:54:09



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