

APPENDIX REPORT

Project No.	SHT1910069204EW	Radio Specification	ZigBee
Test sample No.	YPHT19100692005	Model No.	TL300Z
Start test date	2020/10/20	Finish date	2020/10/20
Temperature	25°C	Humidity	50%
Test Engineer	Jiongsheng.Feng	Auditor	Xiaodong Zheo

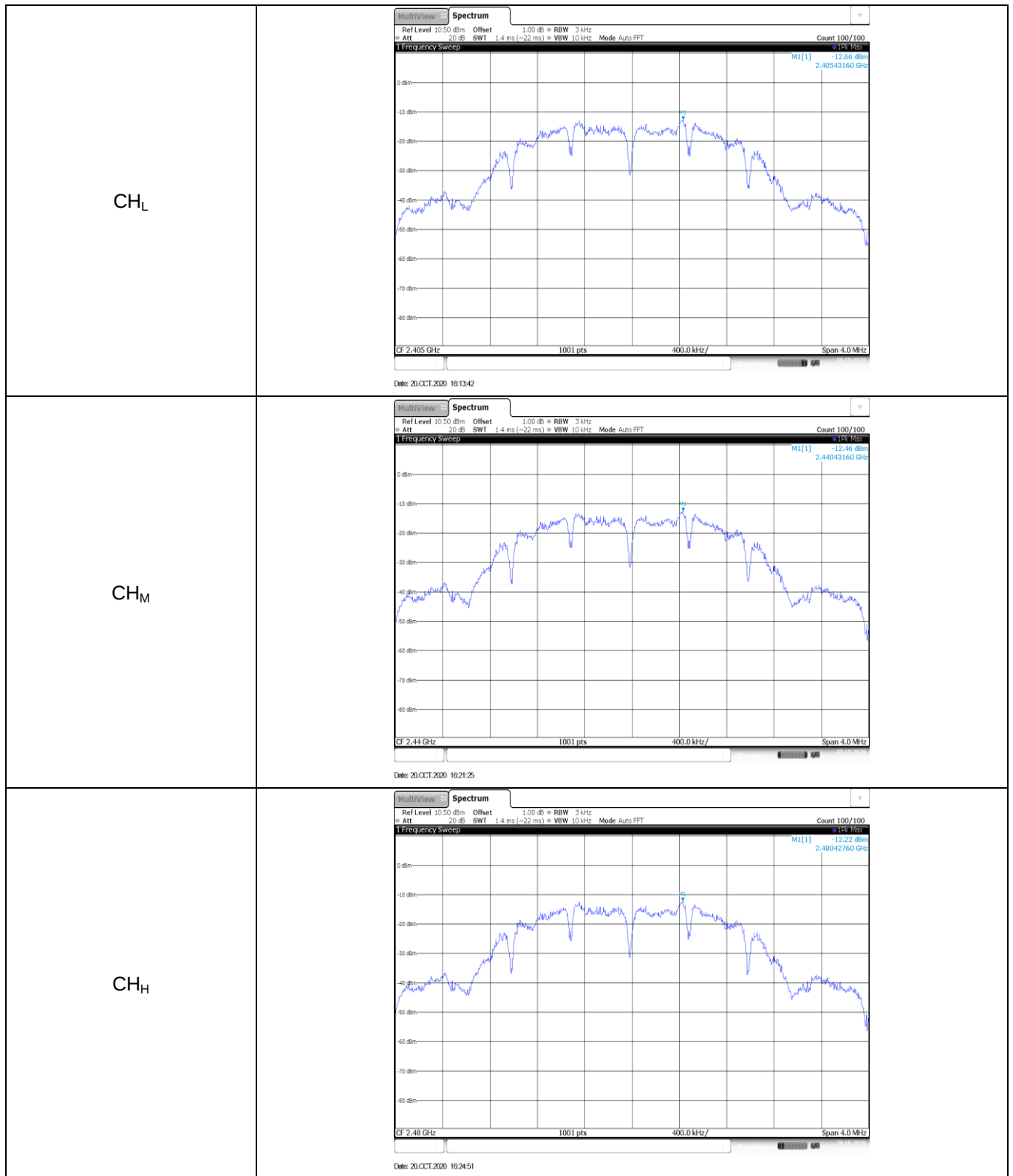
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Antenna Gain (dBi)	Maximum e.r.i.p. (dBm)	EIRP Limit (dBm)	Result
ZigBee	CH _L	3.37	3.36	≤30.00	2	5.37	≤ 36.00	Pass
	CH _M	3.56	3.55		2	5.56		
	CH _H	3.87	3.86		2	5.87		

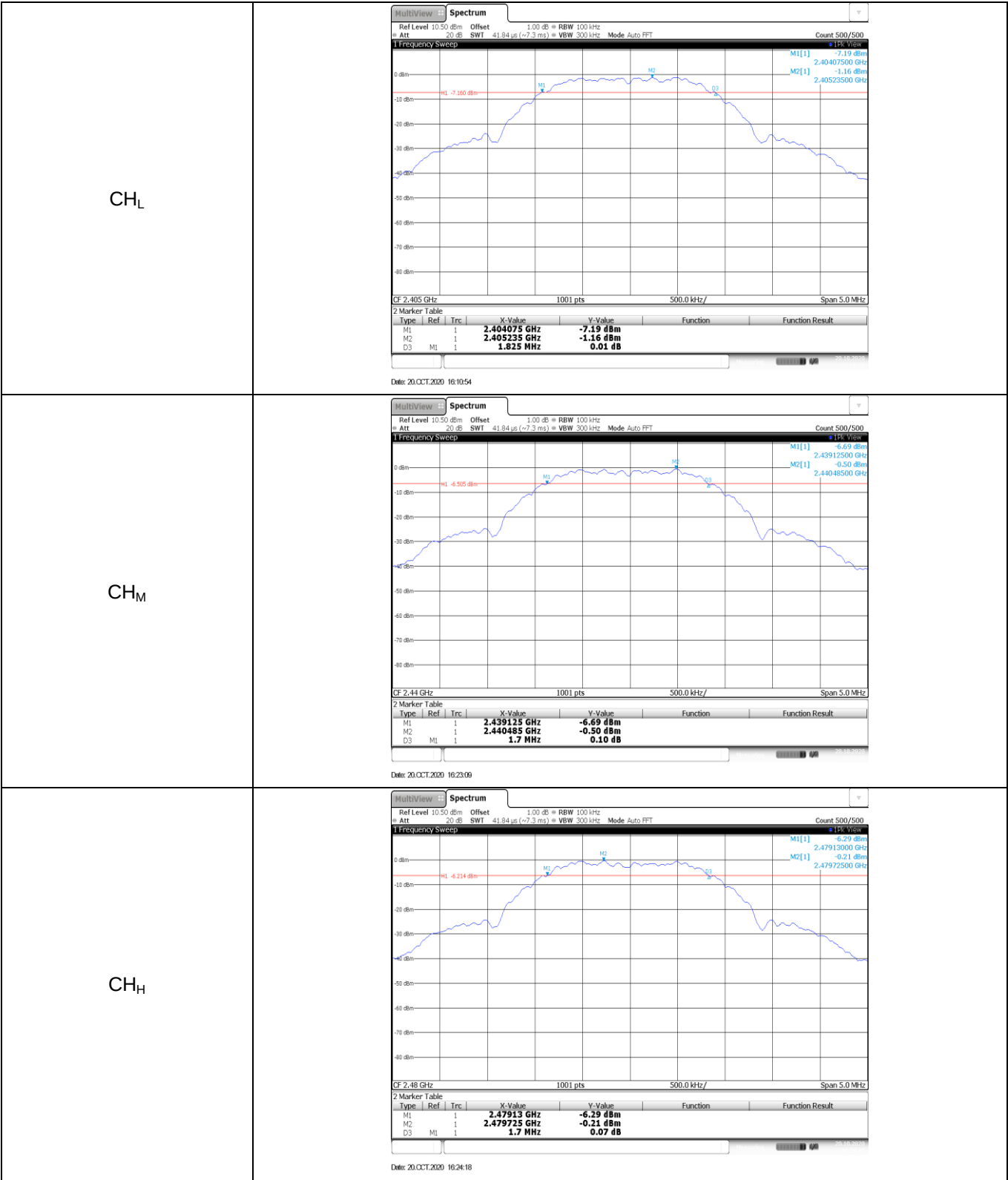
Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
ZigBee	CH _L	-12.66	≤8.00	Pass
	CH _M	-12.46		
	CH _H	-12.22		



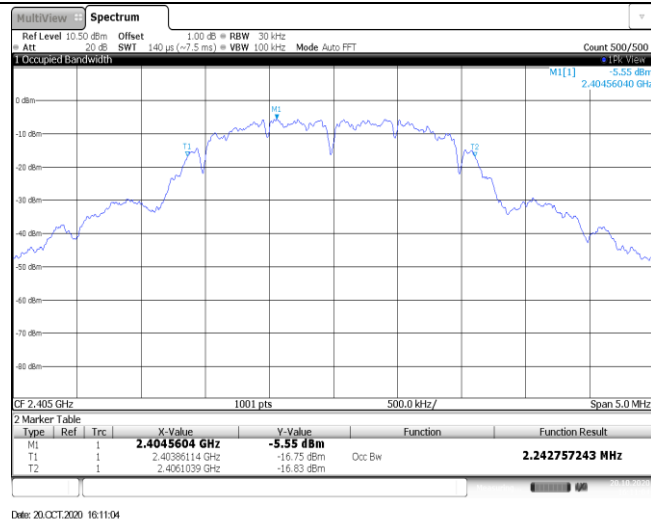
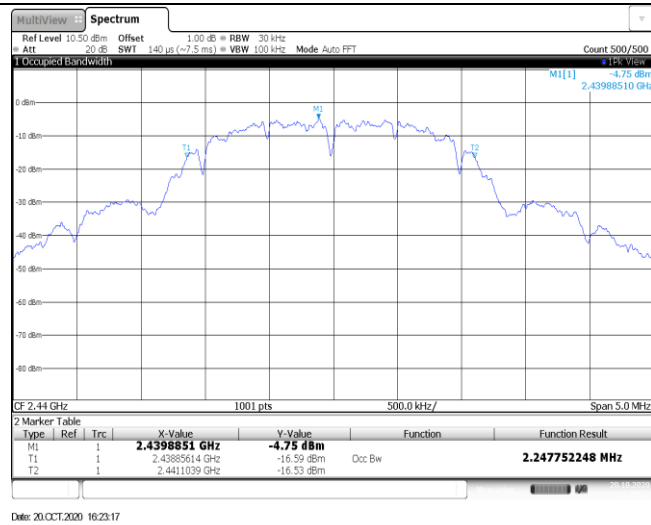
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
ZigBee	CH _L	1825.00	≥500	Pass
	CH _M	1700.00		
	CH _H	1700.00		



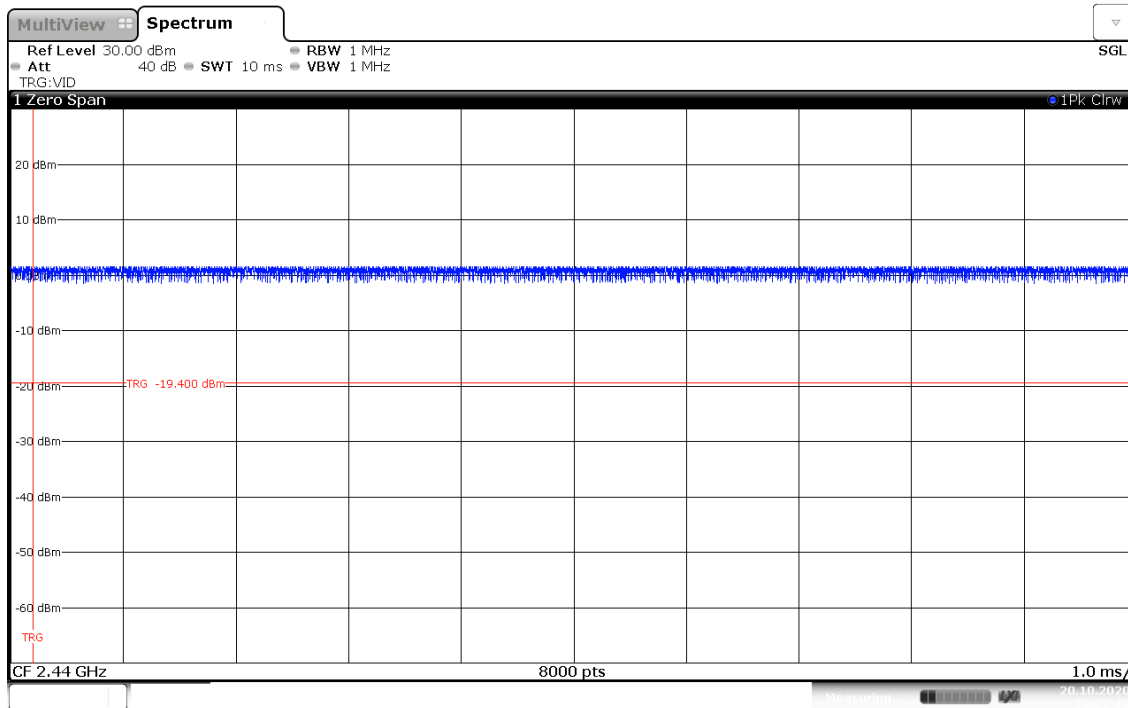
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
ZigBee	CH _L	2.24	-	Pass
	CH _M	2.25		
	CH _H	2.25		

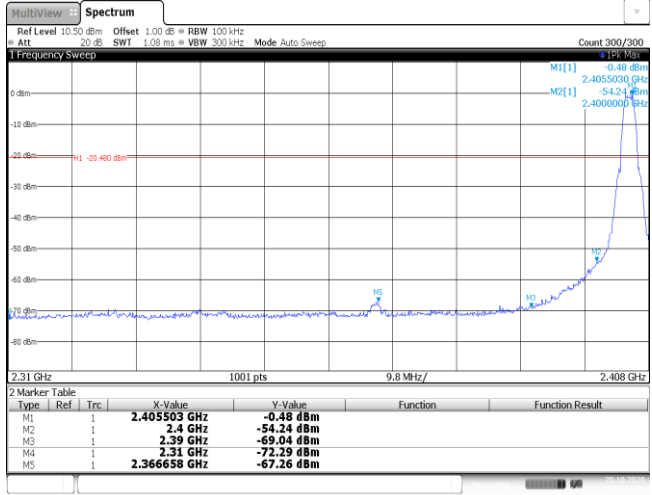
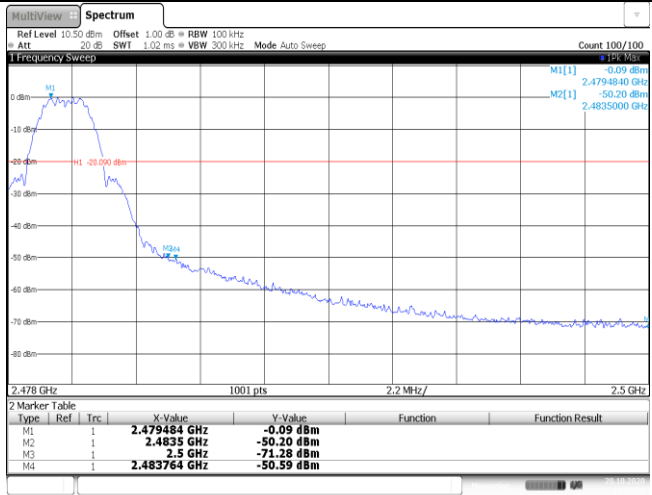
CH_LCH_MCH_H

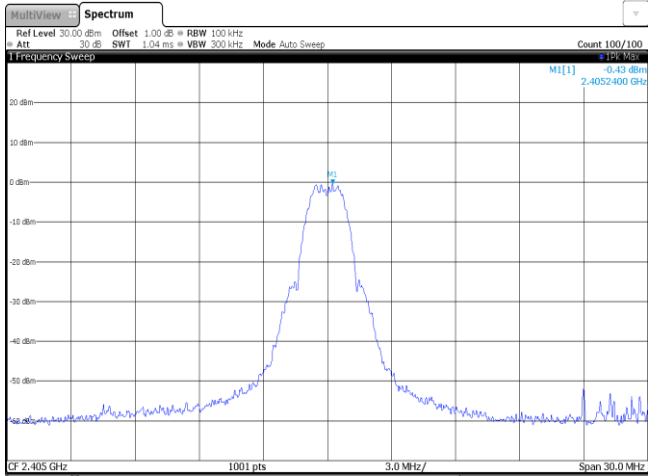
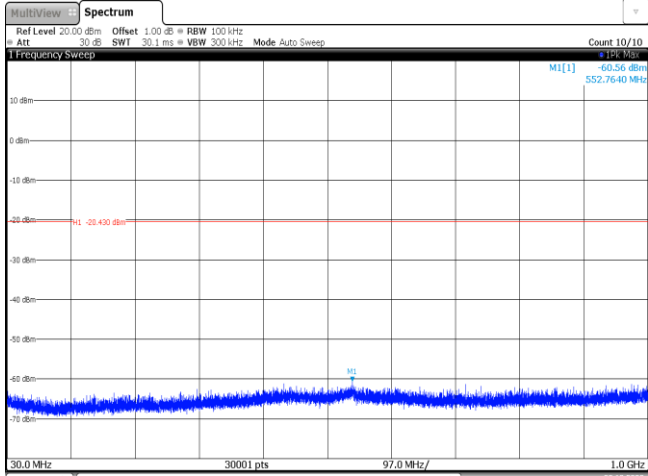
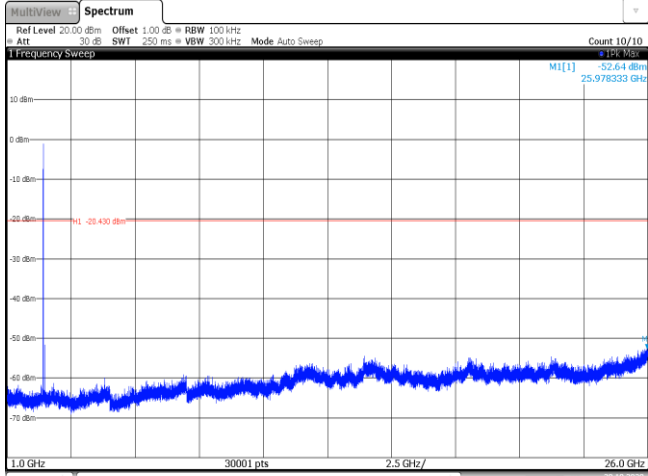
Appendix E: Duty cycle

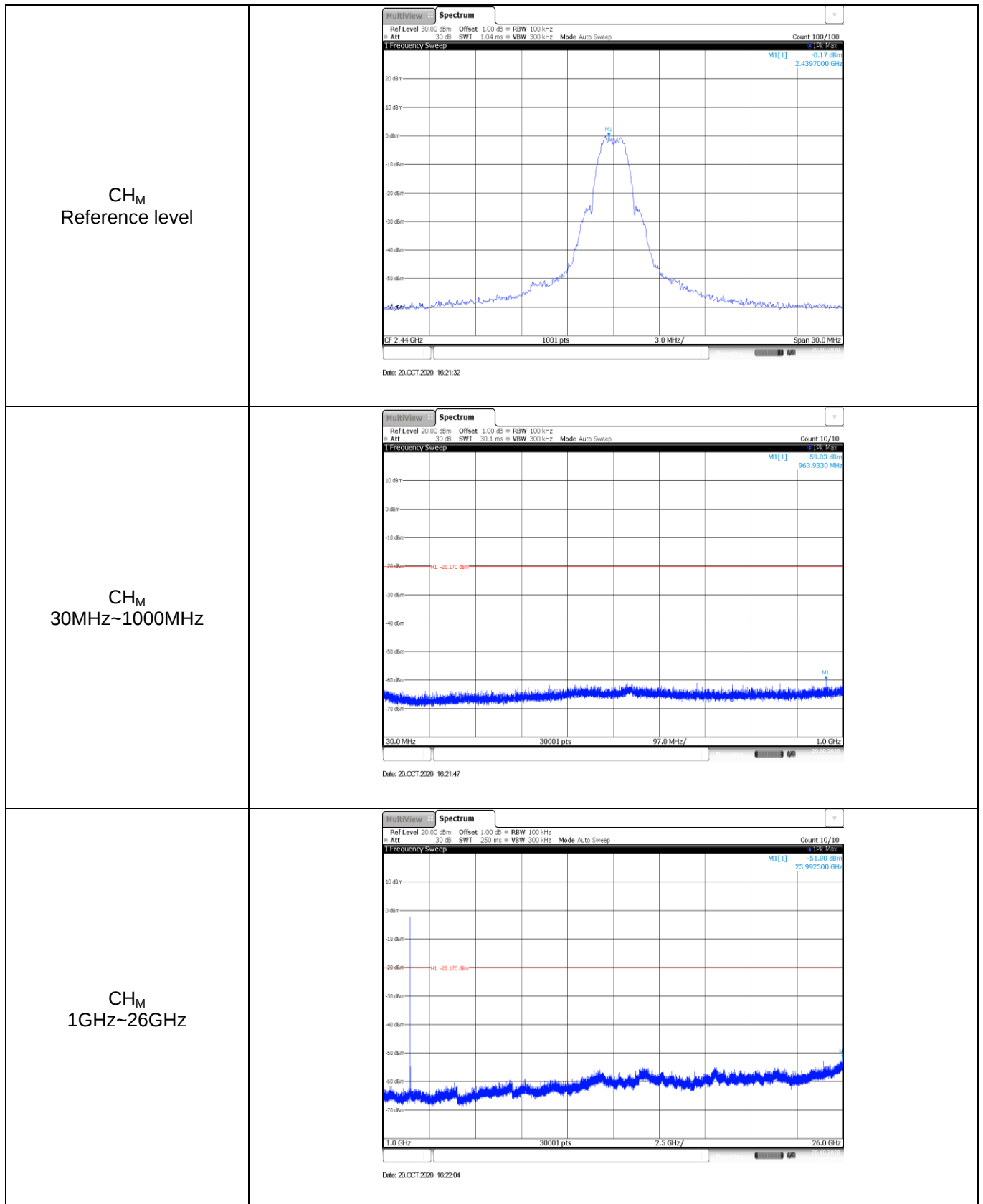
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	1.00	1.00	100%	1.0

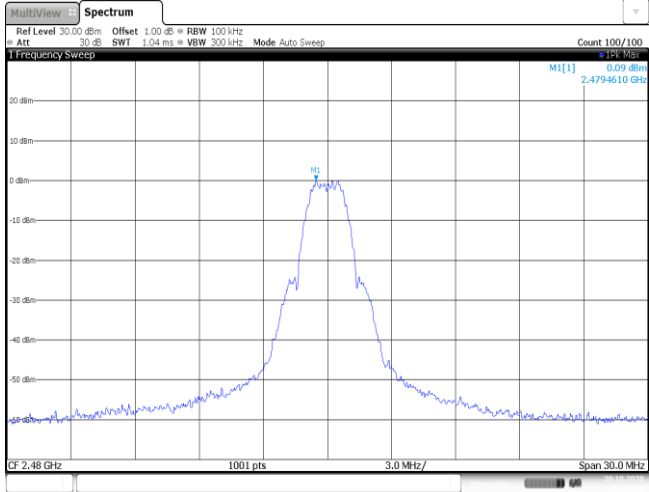
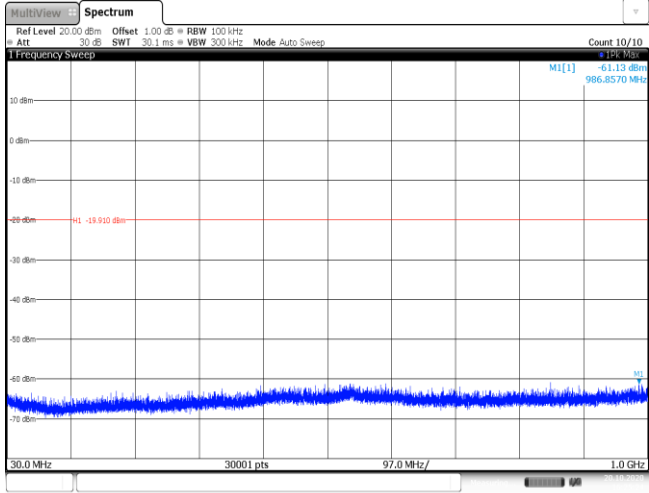
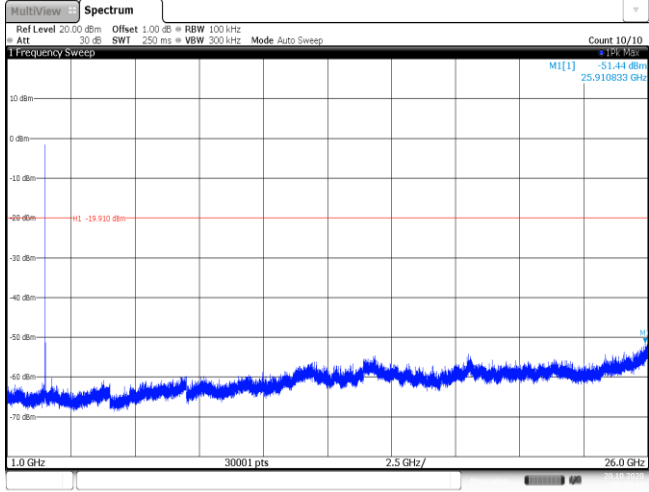


Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge
CH _L	 20.OCT.2020 16:16:32
CH _H	 20.OCT.2020 16:26:04

Test Item:	SE
CH _L Reference level	 CH_L Reference level
CH _L 30MHz~1000MHz	 CH_L 30MHz~1000MHz
CH _L 1GHz~26GHz	 CH_L 1GHz~26GHz



CH_H Reference level	 Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 0.09 dBm 2.4794610 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 20.OCT.2020 16:25:08
CH_H 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -61.13 dBm 986.8570 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 20.OCT.2020 16:25:24
CH_H 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -51.44 dBm 25.910833 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 20.OCT.2020 16:25:41

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