

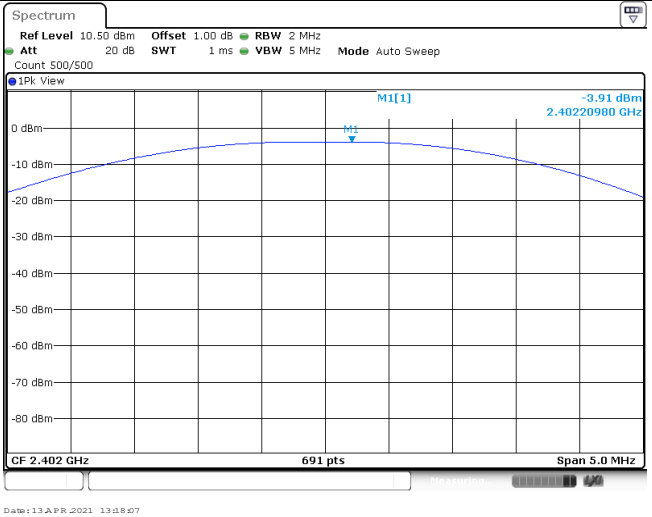
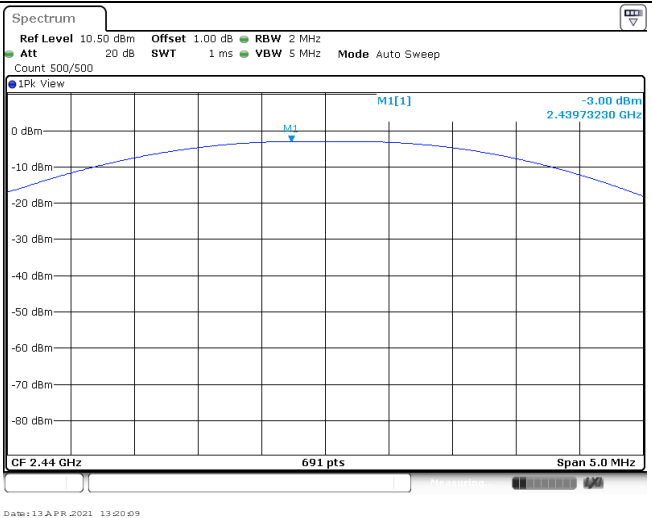
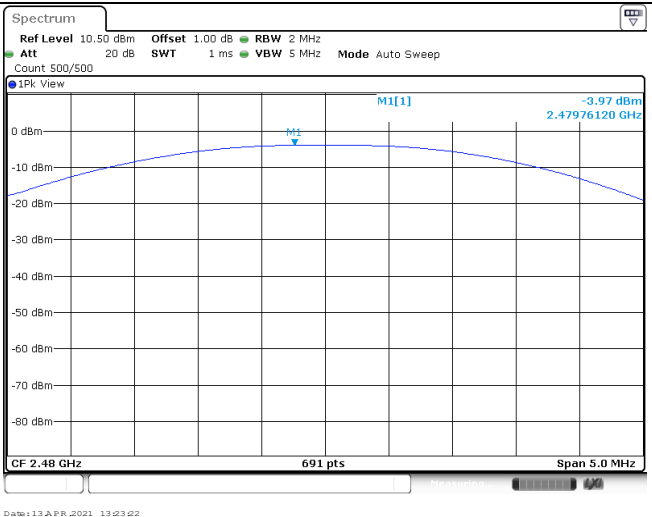
# APPENDIX REPORT

Project No.	SHT2103073007EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21030730039	Model No.	X5
Start test date	2021-04-13	Finish date	2021-04-14
Temperature	24.5°C	Humidity	45%
Test Engineer	Qizhi Zhang	Auditor	Xiaodong Zhe

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

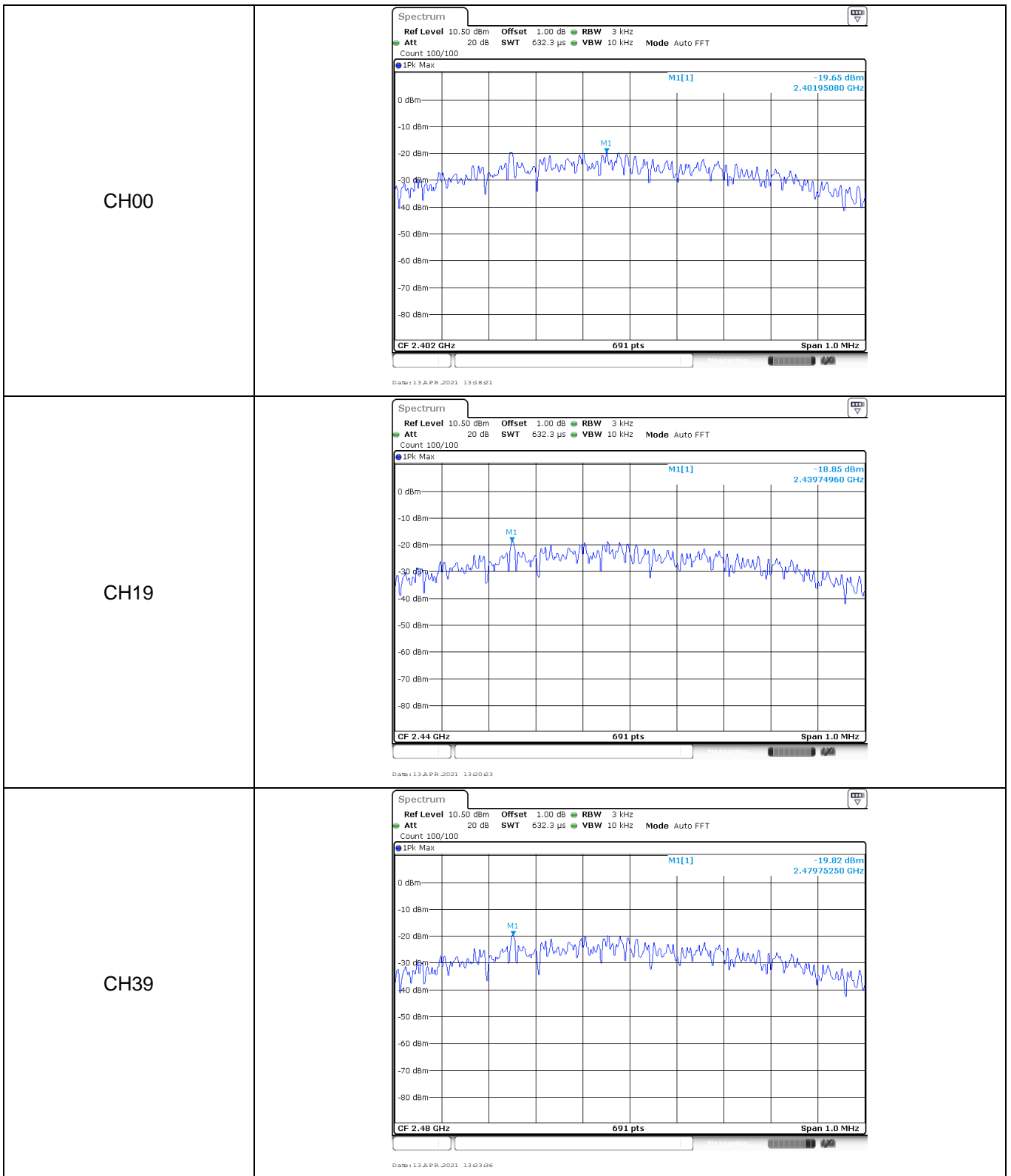
**Appendix A: Peak Output Power**

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-3.91	-3.92	≤ 30.00	Pass
	19	-3.00	-3.01		
	39	-3.97	-3.98		

CH00	 <p>Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 2 MHz Att 20 dB SWT 1 ms VBW 5 MHz Mode Auto Sweep Count 500/500 IPK View M1[1] -3.91 dBm 2.40220980 GHz CF 2.402 GHz 691 pts Span 5.0 MHz Date: 13 APR 2021 13:18:07</p>
CH19	 <p>Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 2 MHz Att 20 dB SWT 1 ms VBW 5 MHz Mode Auto Sweep Count 500/500 IPK View M1[1] -3.00 dBm 2.43973230 GHz CF 2.44 GHz 691 pts Span 5.0 MHz Date: 13 APR 2021 13:20:09</p>
CH39	 <p>Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 2 MHz Att 20 dB SWT 1 ms VBW 5 MHz Mode Auto Sweep Count 500/500 IPK View M1[1] -3.97 dBm 2.47976120 GHz CF 2.48 GHz 691 pts Span 5.0 MHz Date: 13 APR 2021 13:23:22</p>

**Appendix B: Power Spectral Density**

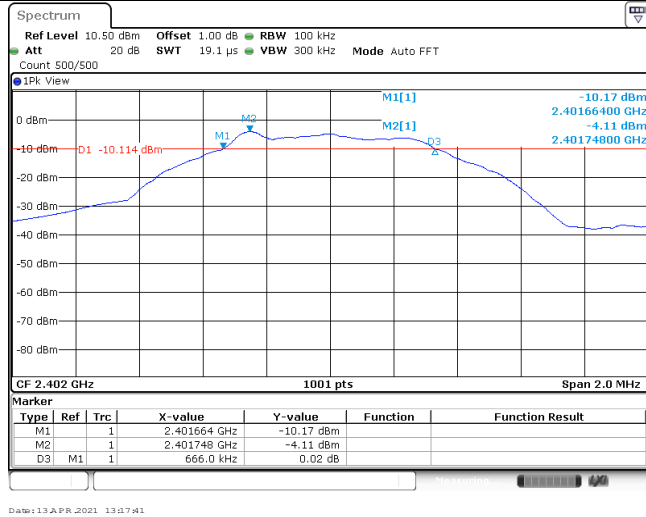
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-19.65	≤8.00	Pass
	19	-18.85		
	39	-19.82		



**Appendix C: 6dB bandwidth**

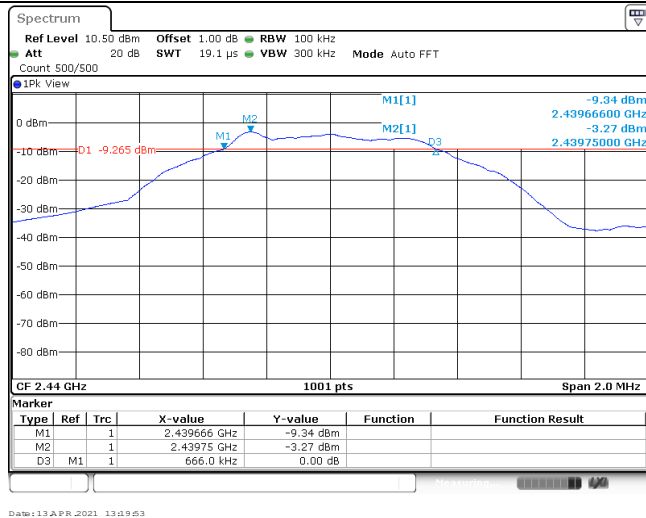
Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	666.00	≥500	Pass
	19	666.00		
	39	668.00		

CH00



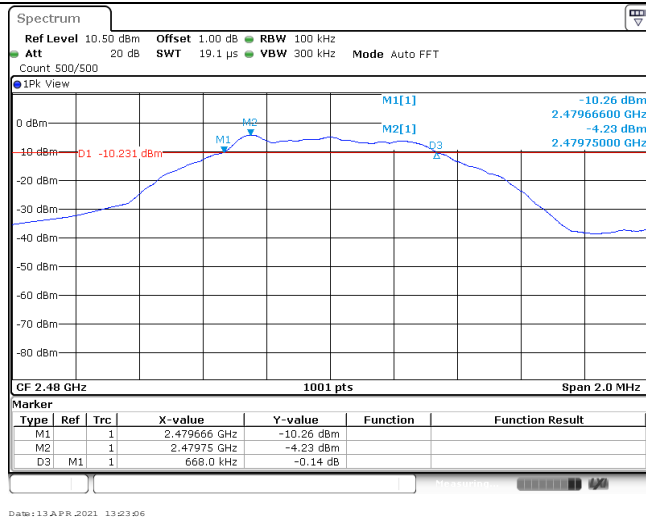
Date: 13 APR 2021 13:17:41

CH19



Date: 13 APR 2021 13:19:53

CH39



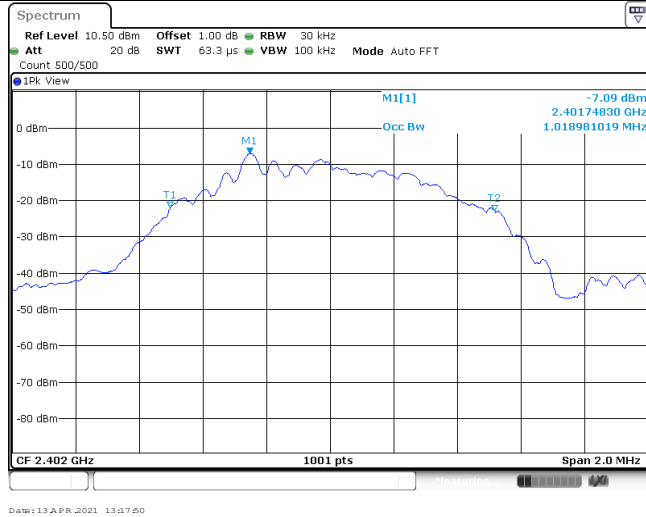
Date: 13 APR 2021 13:23:06

**Appendix D: 99% Occupied Bandwidth**

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.02	-	Pass
	19	1.02		
	39	1.02		

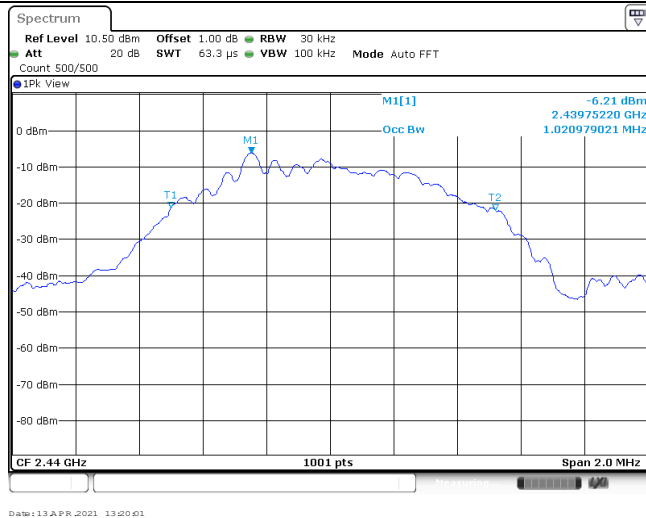


CH00



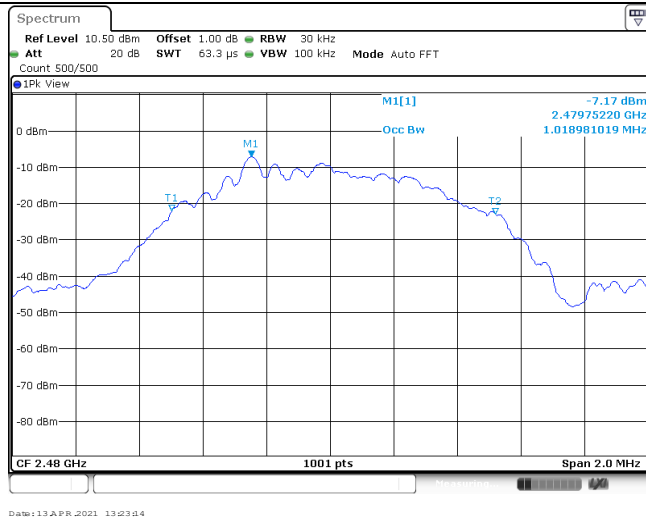
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CH19



Date: 13 APR 2021 13:20:01

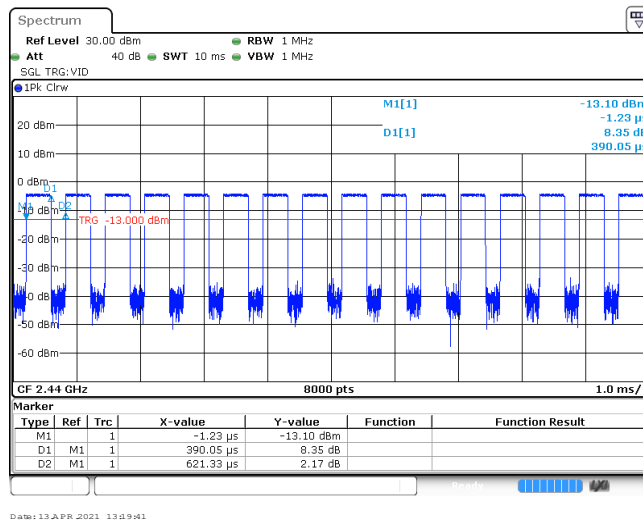
CH39



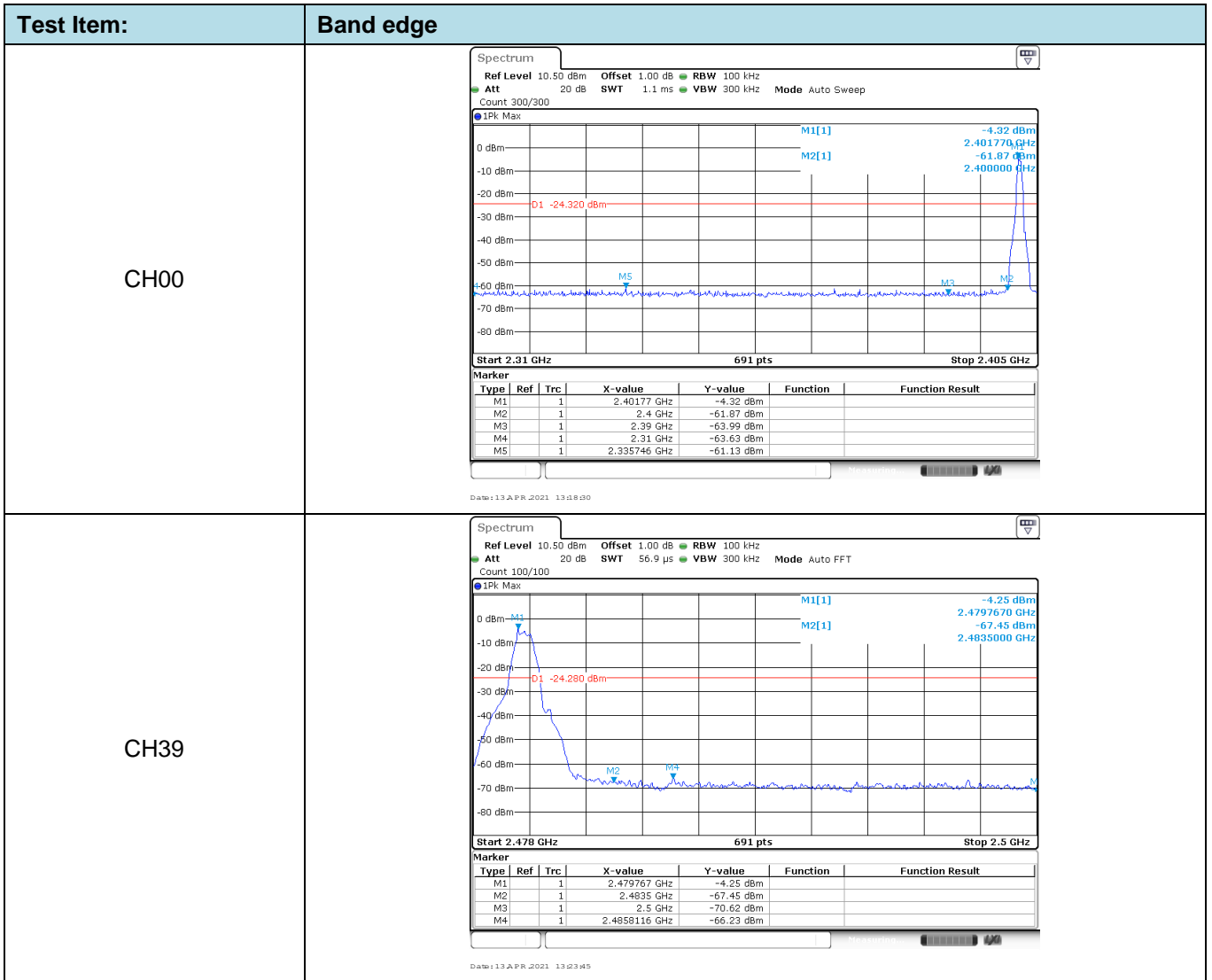
Date: 13 APR 2021 13:23:14

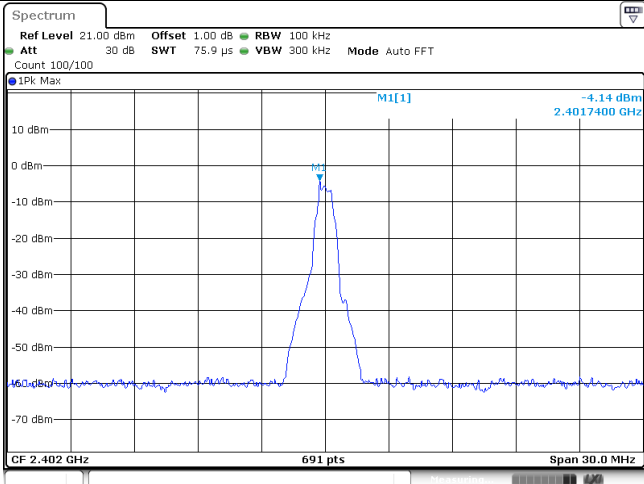
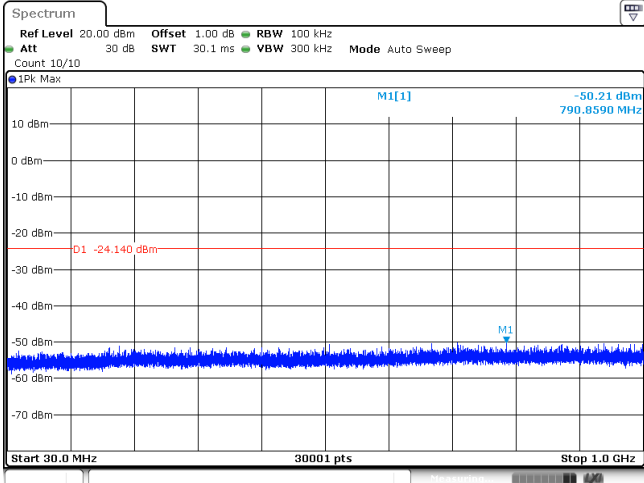
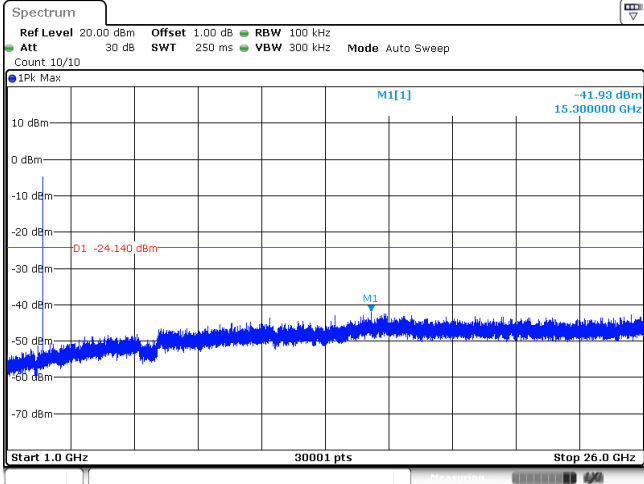
### Appendix E: Duty cycle

Test Frequency (MHz)	T <sub>on</sub> time for single burst (ms)	T <sub>period</sub> (ms)	Duty cycle	1/T <sub>on</sub> time (kHz)
2440	0.39	0.62	62.9%	2.6



### Appendix F: Band edge and Spurious Emissions (conducted)



Test Item:	SE
<p>CH00 Reference level</p>	 <p>Spectrum</p> <p>Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 <math>\mu</math>s VBW 300 kHz Mode Auto FFT Count 100/100</p> <p>1Pk Max</p> <p>M1[1] -4.14 dBm 2.4017400 GHz</p> <p>CF 2.402 GHz 691 pts Span 30.0 MHz</p> <p>Date: 13 APR 2021 13:18:40</p>
<p>CH00 30MHz~1000MHz</p>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10</p> <p>1Pk Max</p> <p>M1[1] -50.21 dBm 790.8590 MHz</p> <p>D1 -24.140 dBm</p> <p>M1</p> <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 13 APR 2021 13:18:55</p>
<p>CH00 1GHz~26GHz</p>	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10</p> <p>1Pk Max</p> <p>M1[1] -41.93 dBm 15.300000 GHz</p> <p>D1 -24.140 dBm</p> <p>M1</p> <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 13 APR 2021 13:19:10</p>

<p>CH19 Reference level</p>	
<p>CH19 30MHz~1000MHz</p>	
<p>CH19 1GHz~26GHz</p>	

<p>CH39 Reference level</p>	
<p>CH39 30MHz~1000MHz</p>	
<p>CH39 1GHz~26GHz</p>	

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