

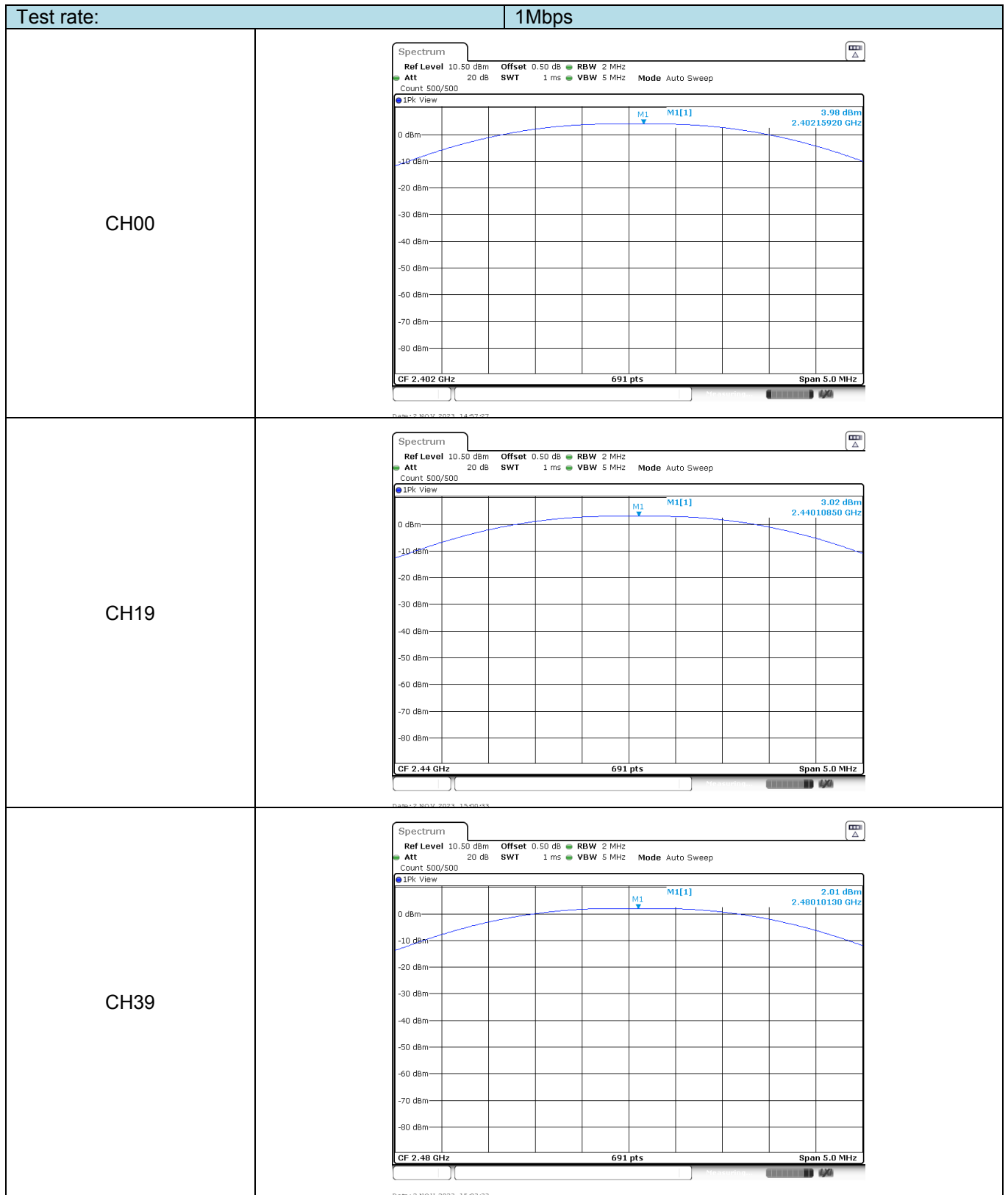
APPENDIX REPORT

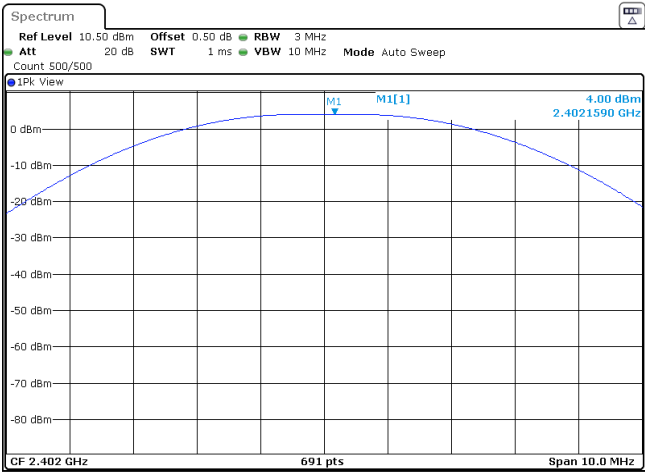
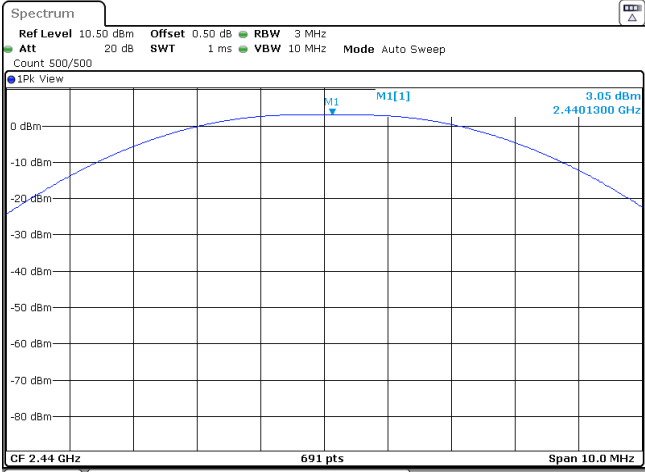
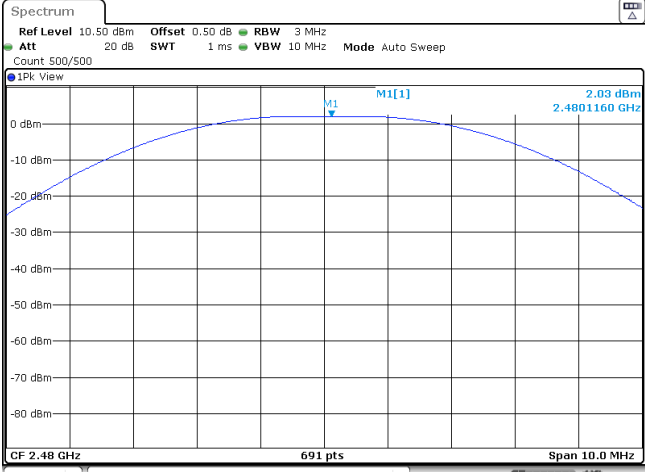
Project No.	SHT2310053703EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT23100537001	Model No.	VM3010
Start test date	2023-11-02	Finish date	2023-11-02
Temperature	24.2℃	Humidity	49%
Test Engineer	Xiangyu Wei	Auditor	Xiaodong Zheo

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

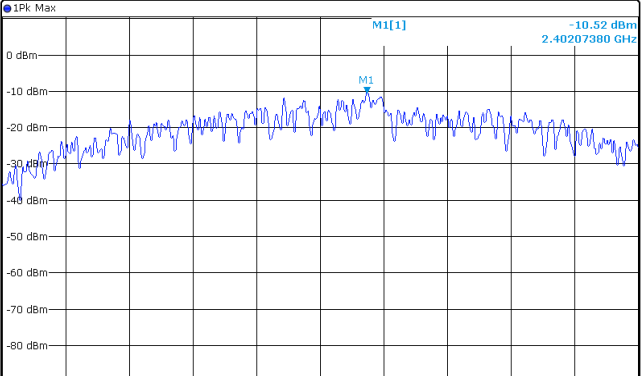
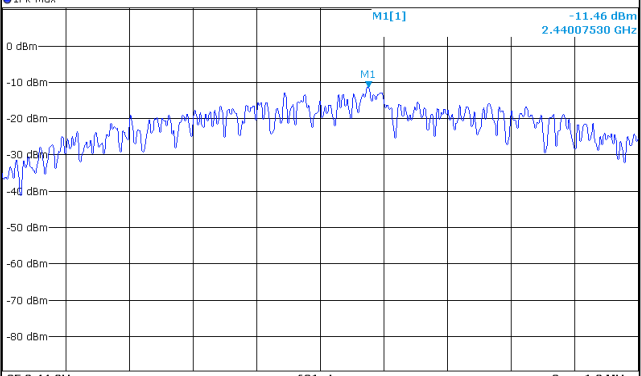
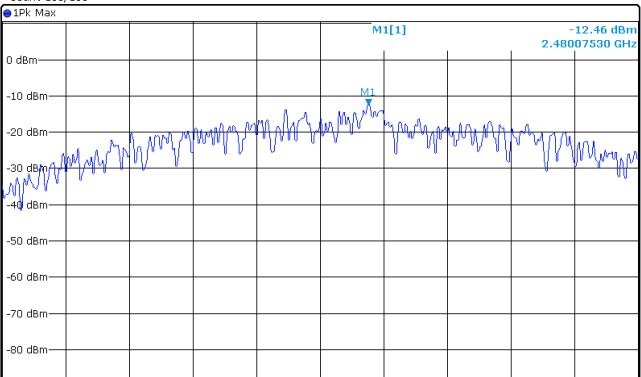
Test rate	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
1Mbps	00	3.98	3.95	≤ 30.00	Pass
	19	3.02	3.00		
	39	2.01	1.99		
2Mbps	00	4.00	3.97	≤ 30.00	Pass
	19	3.05	3.02		
	39	2.03	2.02		



Test rate:		2Mbps
CH00		
CH19		
CH39		

Appendix B: Power Spectral Density

Test rate	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
1Mbps	00	-10.52	≤8.00	Pass
	19	-11.46		
	39	-12.46		
2Mbps	00	-10.83	≤8.00	Pass
	19	-11.61		
	39	-12.74		

Test rate: 1Mbps	
CH00	Spectrum Ref Level 10.50 dBm Att 20 dB Count 100/100 Offset 0.50 dB SWT 632.3 μs RBW 3 kHz VBW 10 kHz Mode Auto FFT IPk Max M1[1] -10.52 dBm 2.40207380 GHz  CF 2.402 GHz 691 pts Span 1.0 MHz Date: 2 NOV 2023 14:58:54
CH19	Spectrum Ref Level 10.50 dBm Att 20 dB Count 100/100 Offset 0.50 dB SWT 632.3 μs RBW 3 kHz VBW 10 kHz Mode Auto FFT IPk Max M1[1] -11.46 dBm 2.44007530 GHz  CF 2.44 GHz 691 pts Span 1.0 MHz Date: 2 NOV 2023 15:02:40
CH39	Spectrum Ref Level 10.50 dBm Att 20 dB Count 100/100 Offset 0.50 dB SWT 632.3 μs RBW 3 kHz VBW 10 kHz Mode Auto FFT IPk Max M1[1] -12.46 dBm 2.48007530 GHz  CF 2.48 GHz 691 pts Span 1.0 MHz Date: 2 NOV 2023 15:04:51

Test rate: 2Mbps

CH00

Spectrum

Ref Level 10.50 dBm Offset 0.50 dB RBW 3 kHz
Att 20 dB SWT 632.1 μ s VBW 10 kHz Mode Auto FFT
Count 100/100
1Pk Max

0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm

M1[1] -10.83 dBm
2.40207380 GHz

CF 2.402 GHz 691 pts Span 3.0 MHz

CH19

Spectrum

Ref Level 10.50 dBm Offset 0.50 dB RBW 3 kHz
Att 20 dB SWT 632.1 μ s VBW 10 kHz Mode Auto FFT
Count 100/100
1Pk Max

0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm

M1[1] -11.61 dBm
2.44007380 GHz

CF 2.44 GHz 691 pts Span 3.0 MHz

CH39

Spectrum

Ref Level 10.50 dBm Offset 0.50 dB RBW 3 kHz
Att 20 dB SWT 632.1 μ s VBW 10 kHz Mode Auto FFT
Count 100/100
1Pk Max

0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm

M1[1] -12.74 dBm
2.48007380 GHz

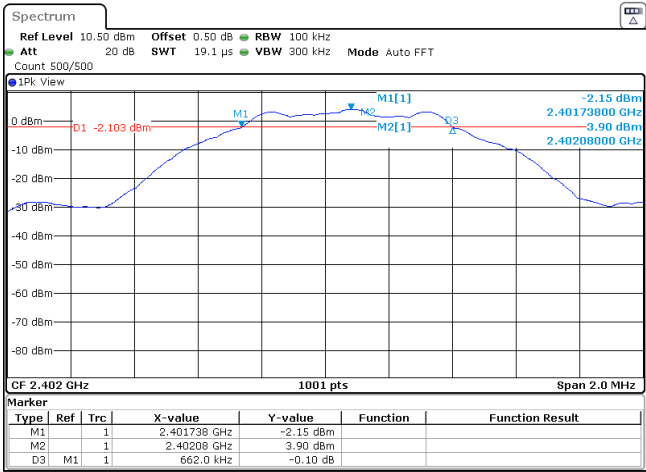
CF 2.48 GHz 691 pts Span 3.0 MHz

Appendix C: 6dB bandwidth

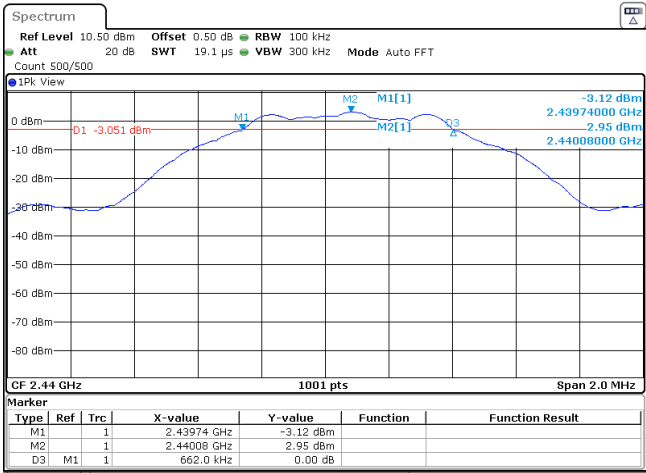
Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
1Mbps	00	662.00	≥500	Pass
	19	662.00		
	39	664.00		
2Mbps	00	1125.00	≥500	Pass
	19	1125.00		
	39	1125.00		

Test rate: 1Mbps

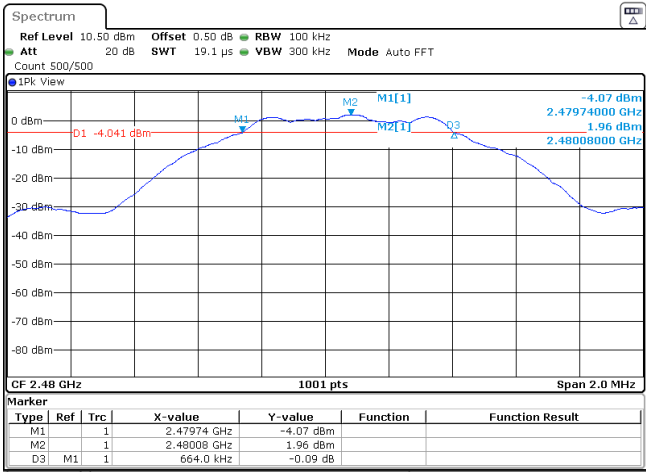
CH00



CH19

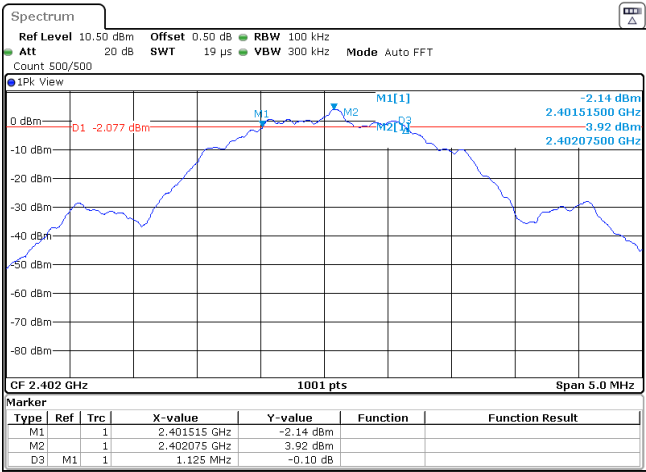


CH39



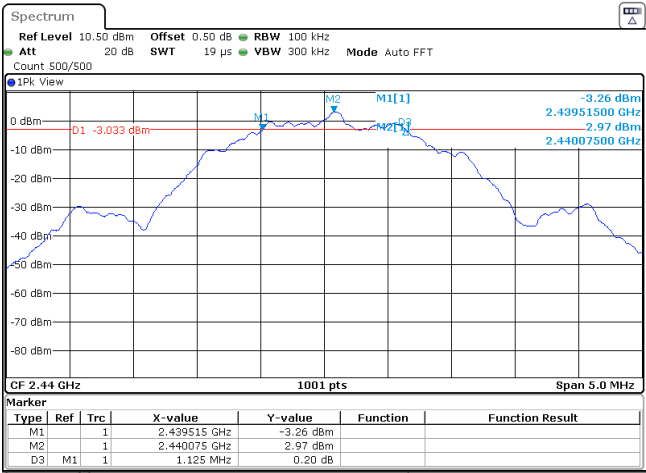
Test rate: 2Mbps

CH00



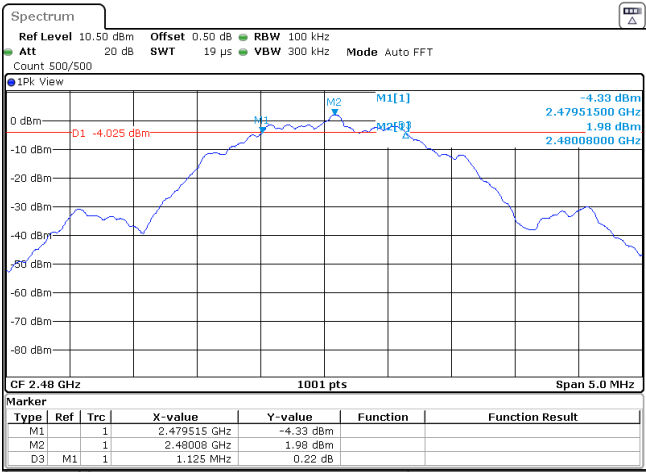
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CH19



Date: 2 NOV 2023 15:08:54

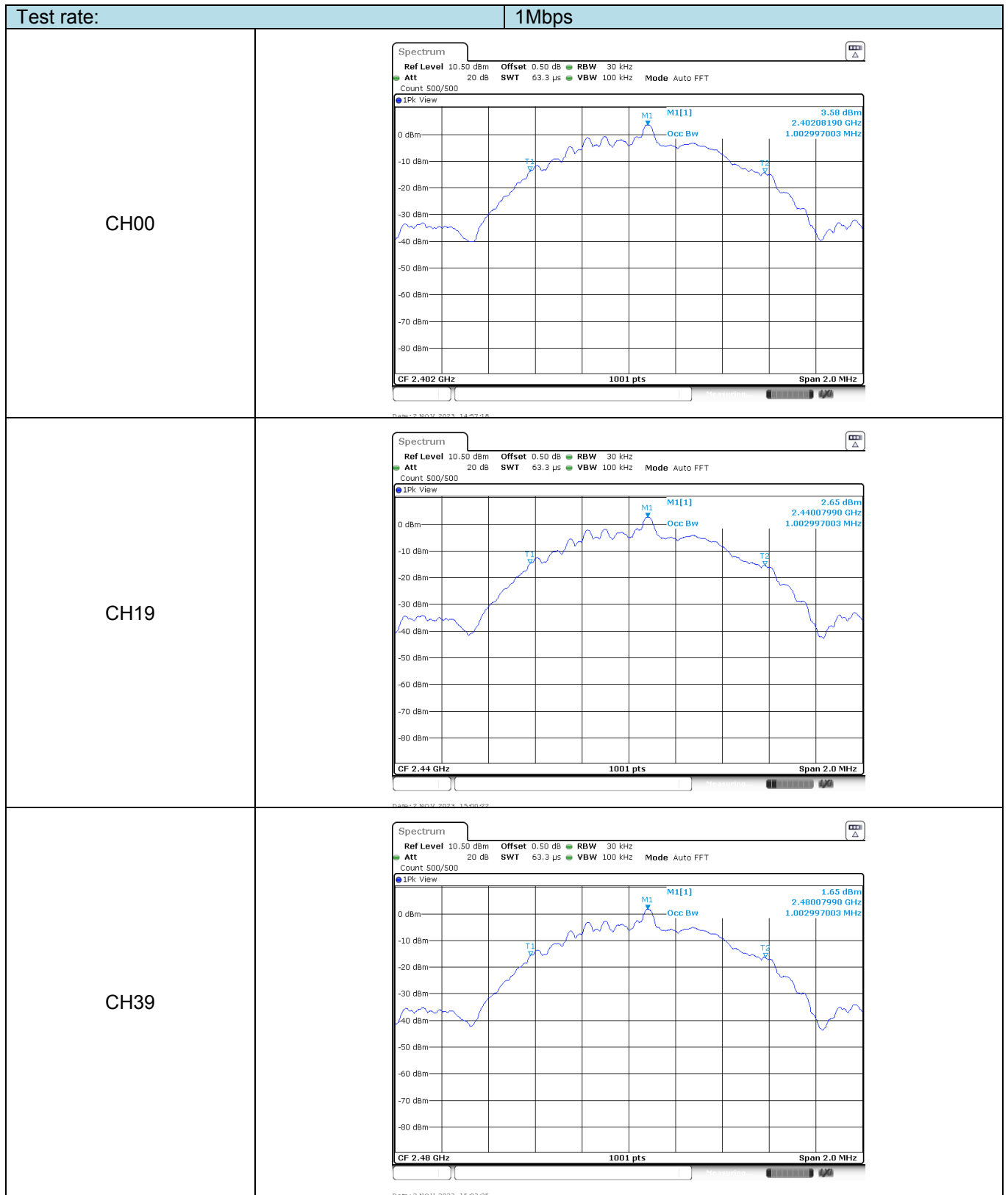
CH39

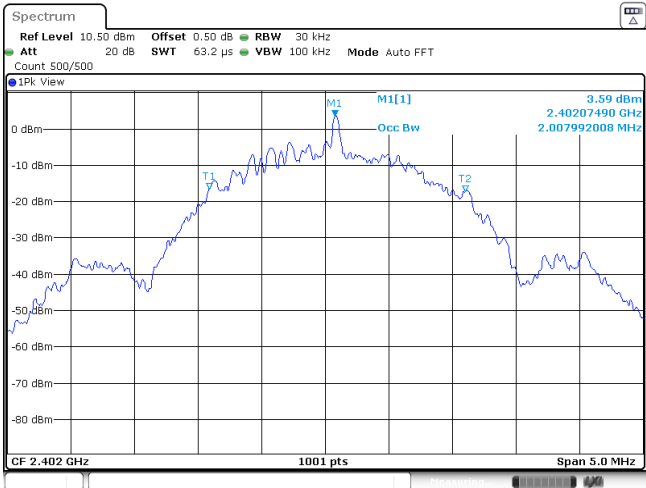
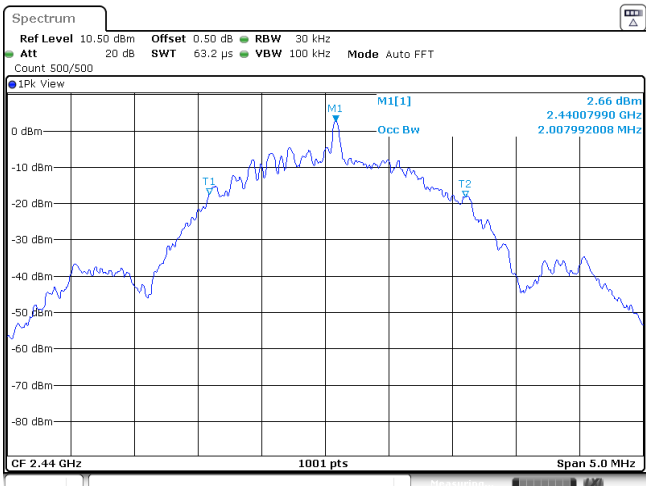
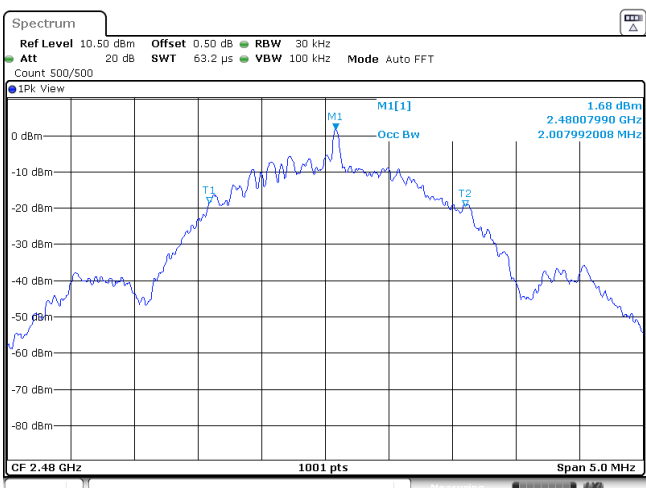


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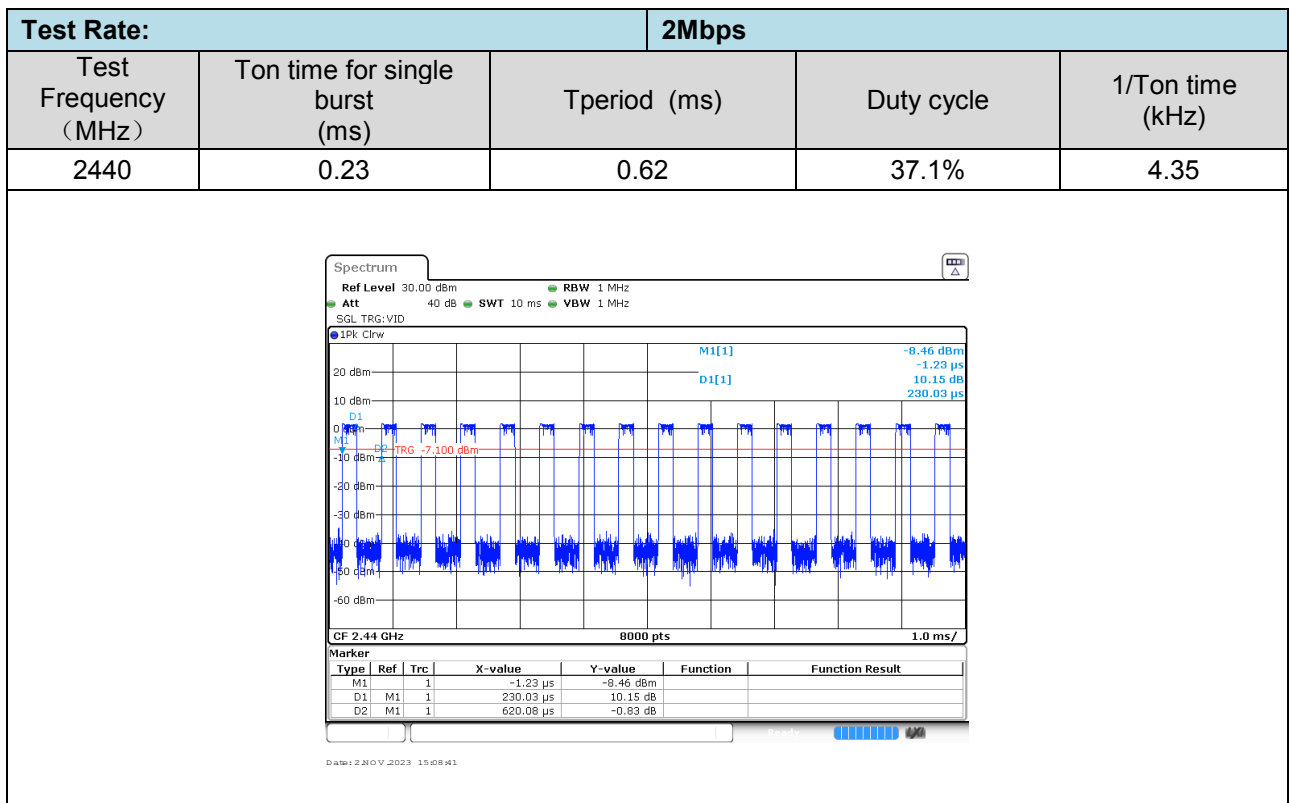
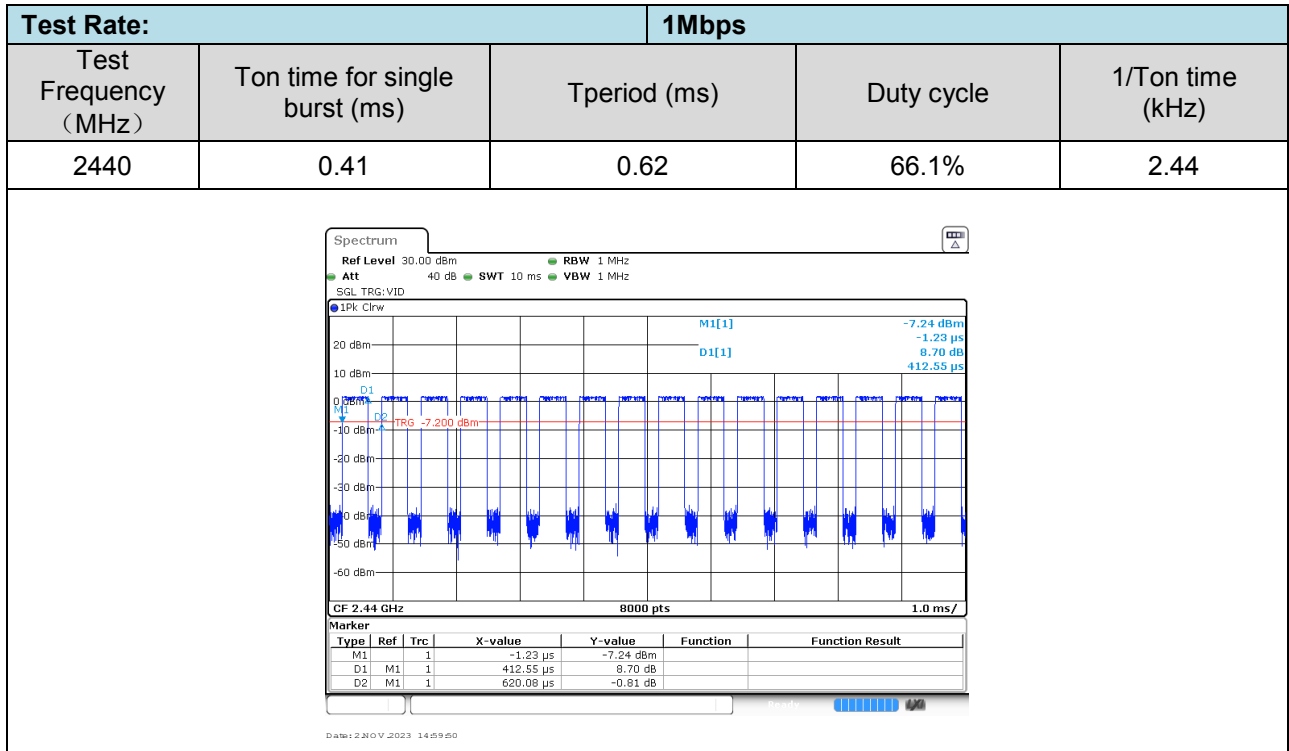
Appendix D: 99% Occupied Bandwidth

Test rate	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
1Mbps	00	1.00	-	Pass
	19	1.00		
	39	1.00		
2Mbps	00	2.01	-	Pass
	19	2.01		
	39	2.01		



Test rate:	2Mbps
CH00	 Spectrum plot for CH00. The plot shows a signal centered at 2.402 GHz. The peak level is 3.59 dBm. The plot includes frequency markers T1, M1, M1[1], Occ Bw, T2, and a span of 5.0 MHz. The x-axis is labeled CF 2.402 GHz and the y-axis is labeled Span 5.0 MHz.
CH19	 Spectrum plot for CH19. The plot shows a signal centered at 2.44 GHz. The peak level is 2.66 dBm. The plot includes frequency markers T1, M1, M1[1], Occ Bw, T2, and a span of 5.0 MHz. The x-axis is labeled CF 2.44 GHz and the y-axis is labeled Span 5.0 MHz.
CH39	 Spectrum plot for CH39. The plot shows a signal centered at 2.48 GHz. The peak level is 1.68 dBm. The plot includes frequency markers T1, M1, M1[1], Occ Bw, T2, and a span of 5.0 MHz. The x-axis is labeled CF 2.48 GHz and the y-axis is labeled Span 5.0 MHz.

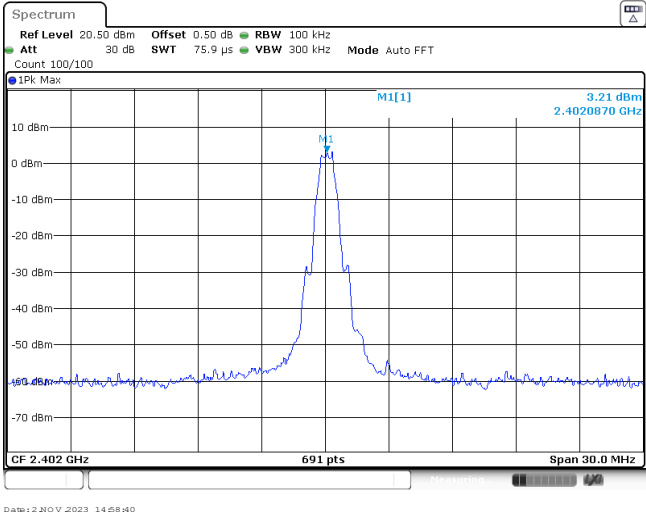
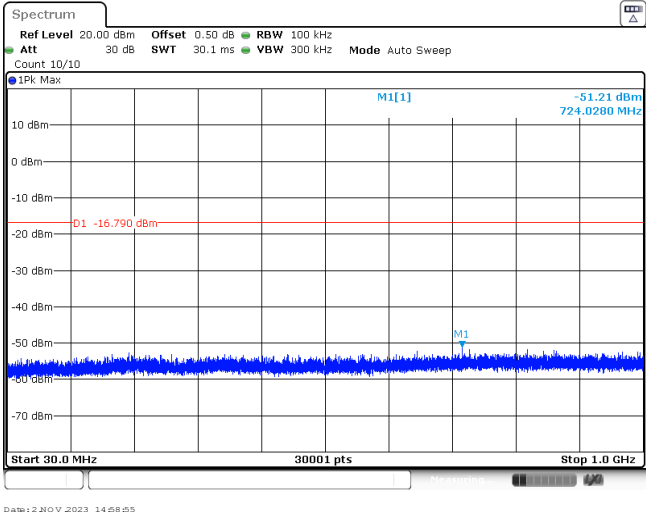
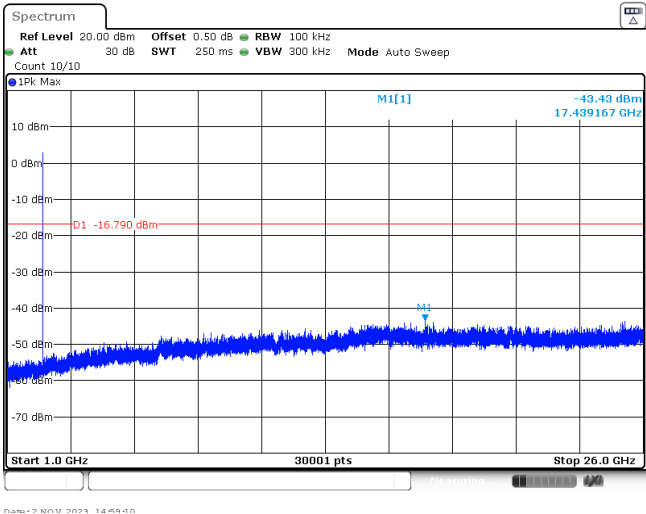
Appendix E: Duty cycle

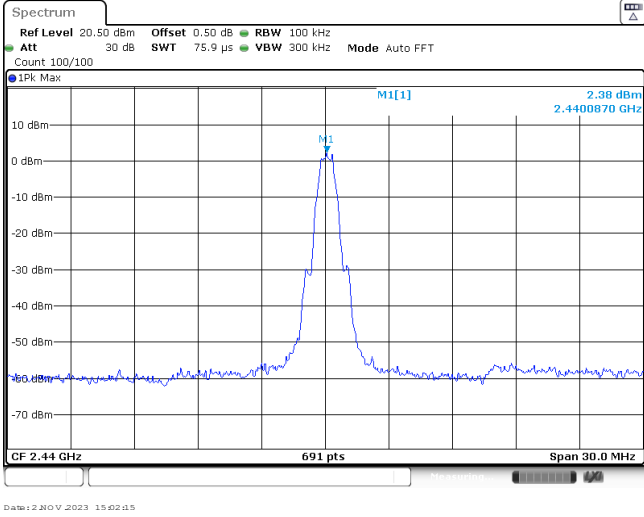
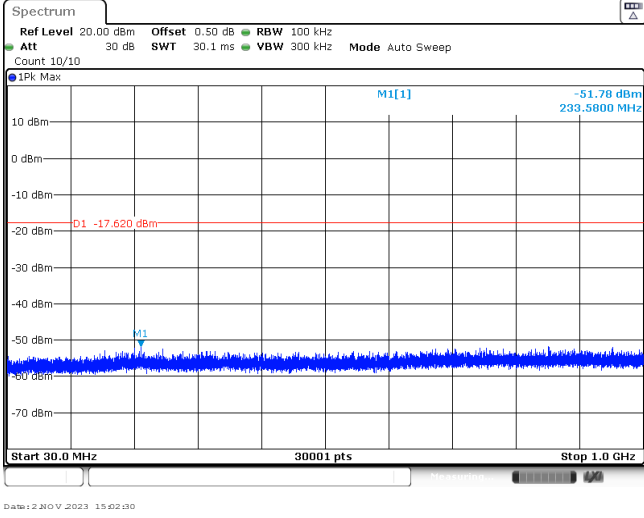
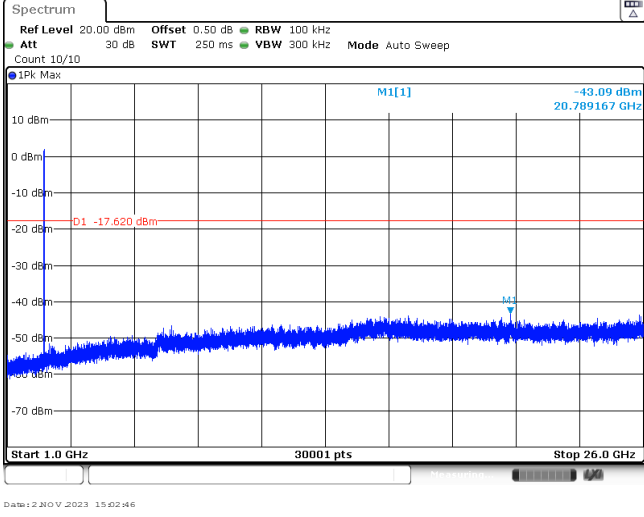


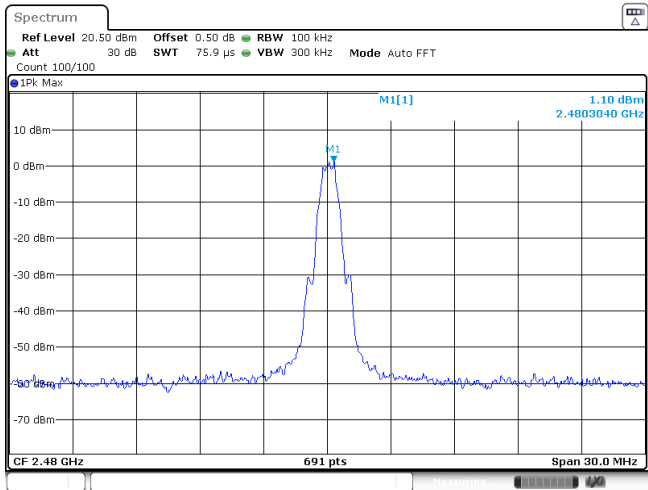
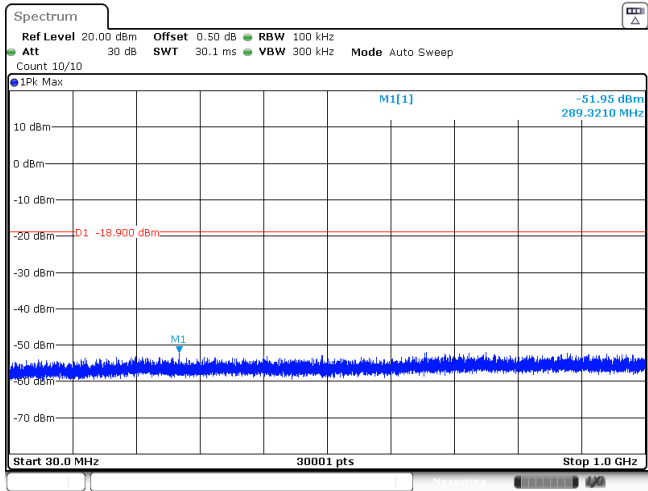
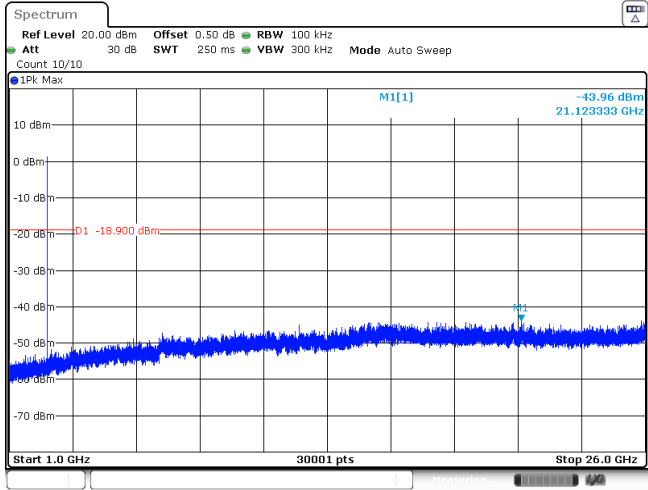
Appendix F: Band edge and Spurious Emissions (conducted)

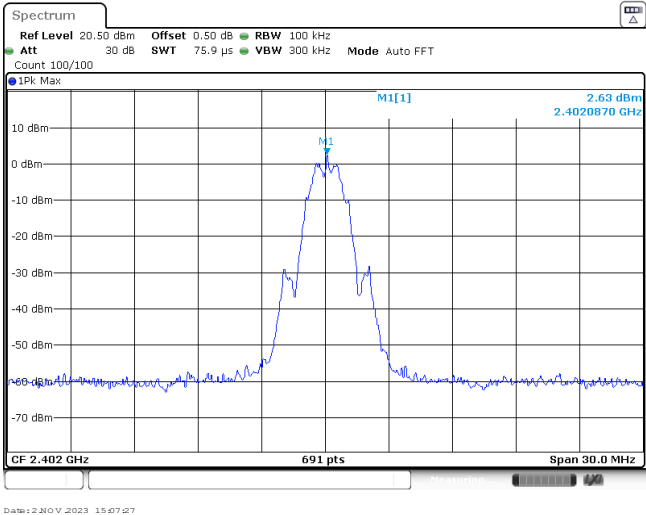
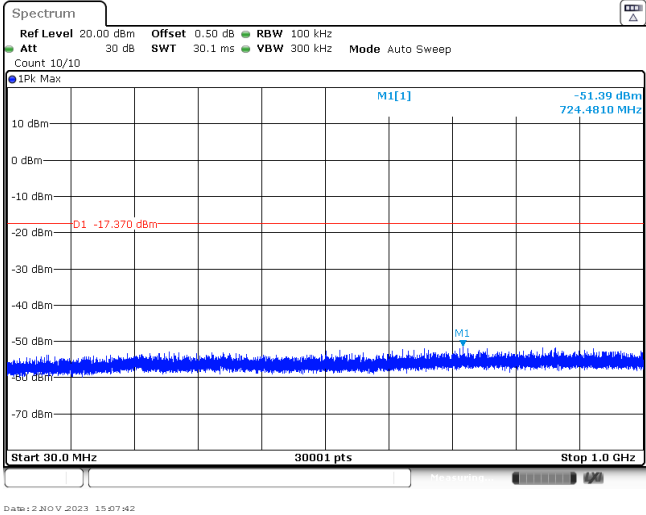
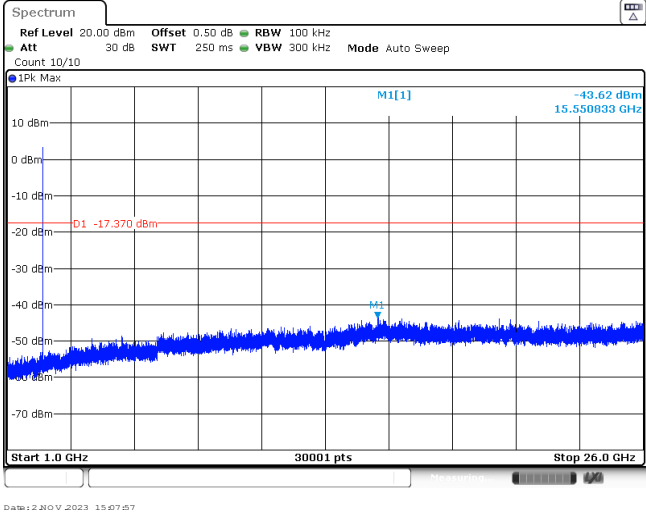
Test Item:	Band edge	Test Rate:	1Mbps																																										
CH00	Spectrum Ref Level 10.50 dBm Offset 0.50 dB RBW 100 kHz Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm M1[1] M2[1] M3 M4 3.04 dBm 2.40204 GHz -55.46 dBm 2.400000 GHz D1 -16.960 dBm Start 2.31 GHz 691 pts Stop 2.405 GHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.40204 GHz</td><td>3.04 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-55.46 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-65.62 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-65.11 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399768 GHz</td><td>-56.53 dBm</td><td></td><td></td></tr></table>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40204 GHz	3.04 dBm			M2	1		2.4 GHz	-55.46 dBm			M3	1		2.39 GHz	-65.62 dBm			M4	1		2.31 GHz	-65.11 dBm			M5	1		2.399768 GHz	-56.53 dBm		
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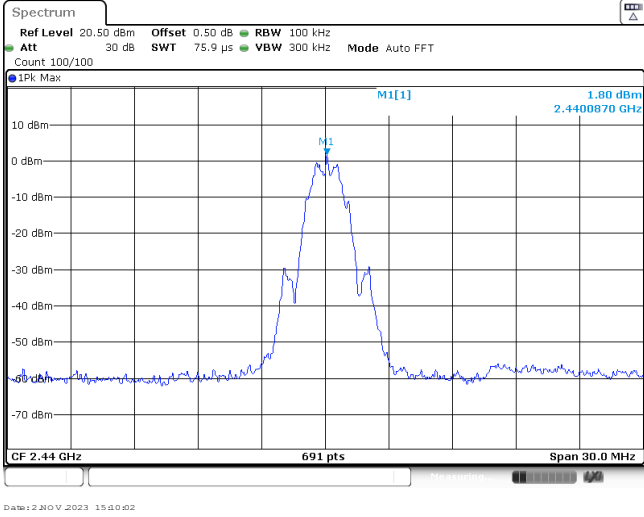
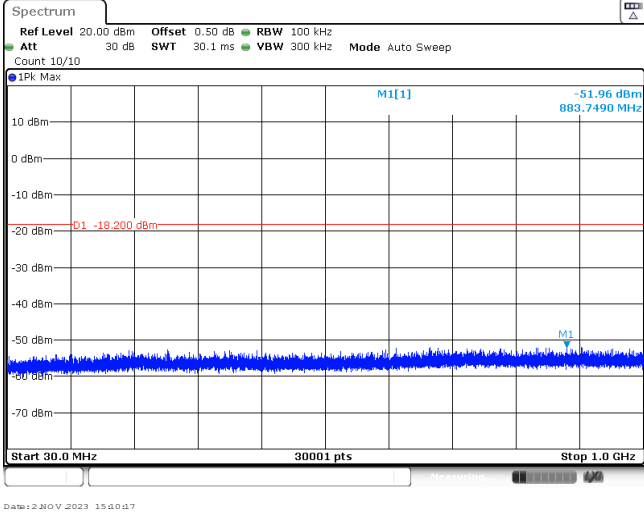
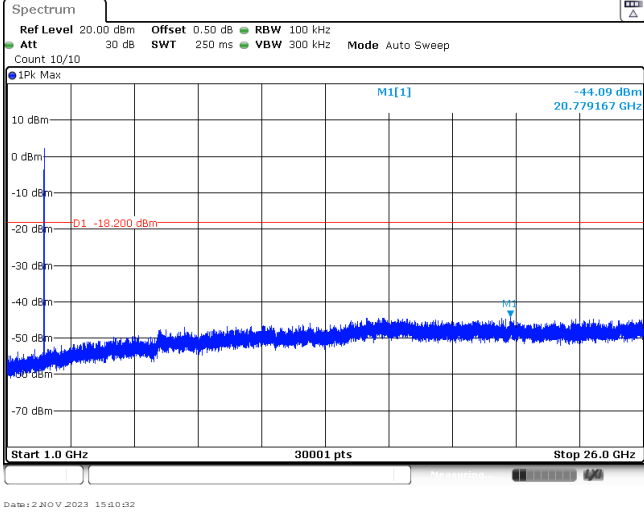
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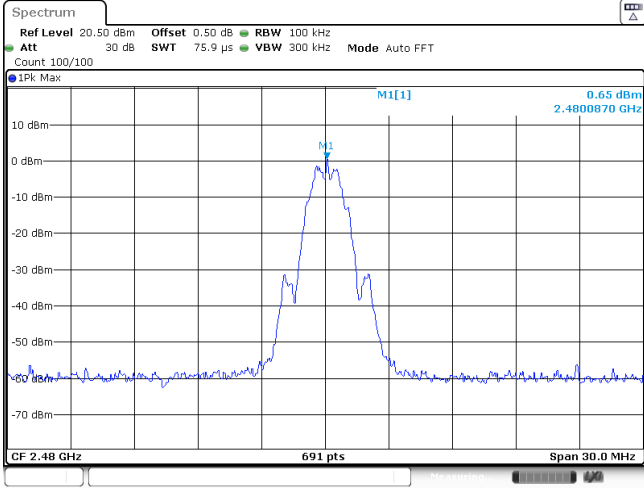
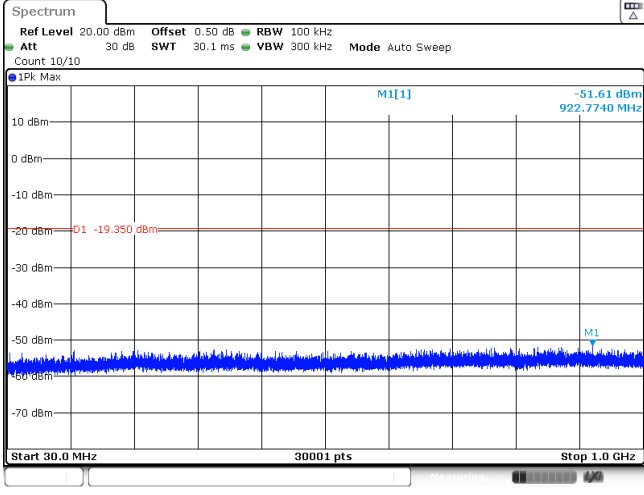
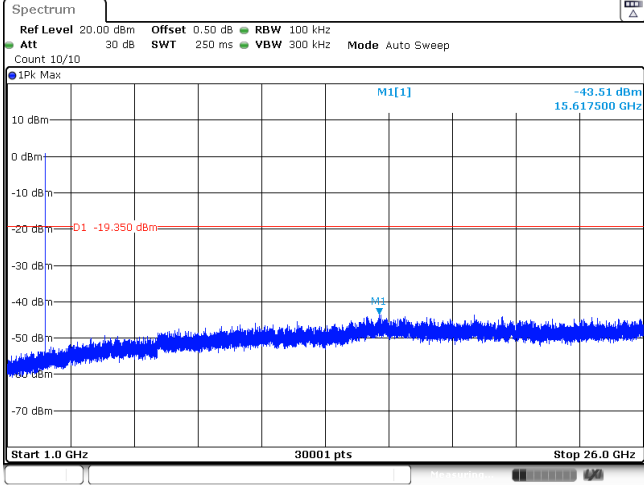
Test Item:	SE	Test Rate:	1Mbps
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

CH19 Reference level	
CH19 30MHz~1000MHz	
CH19 1GHz~26GHz	

CH39 Reference level	
CH39 30MHz~1000MHz	
CH39 1GHz~26GHz	

Test Item:	SE	Test Rate:	2Mbps
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

CH19 Reference level	
CH19 30MHz~1000MHz	
CH19 1GHz~26GHz	

CH39 Reference level	
CH39 30MHz~1000MHz	
CH39 1GHz~26GHz	

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