

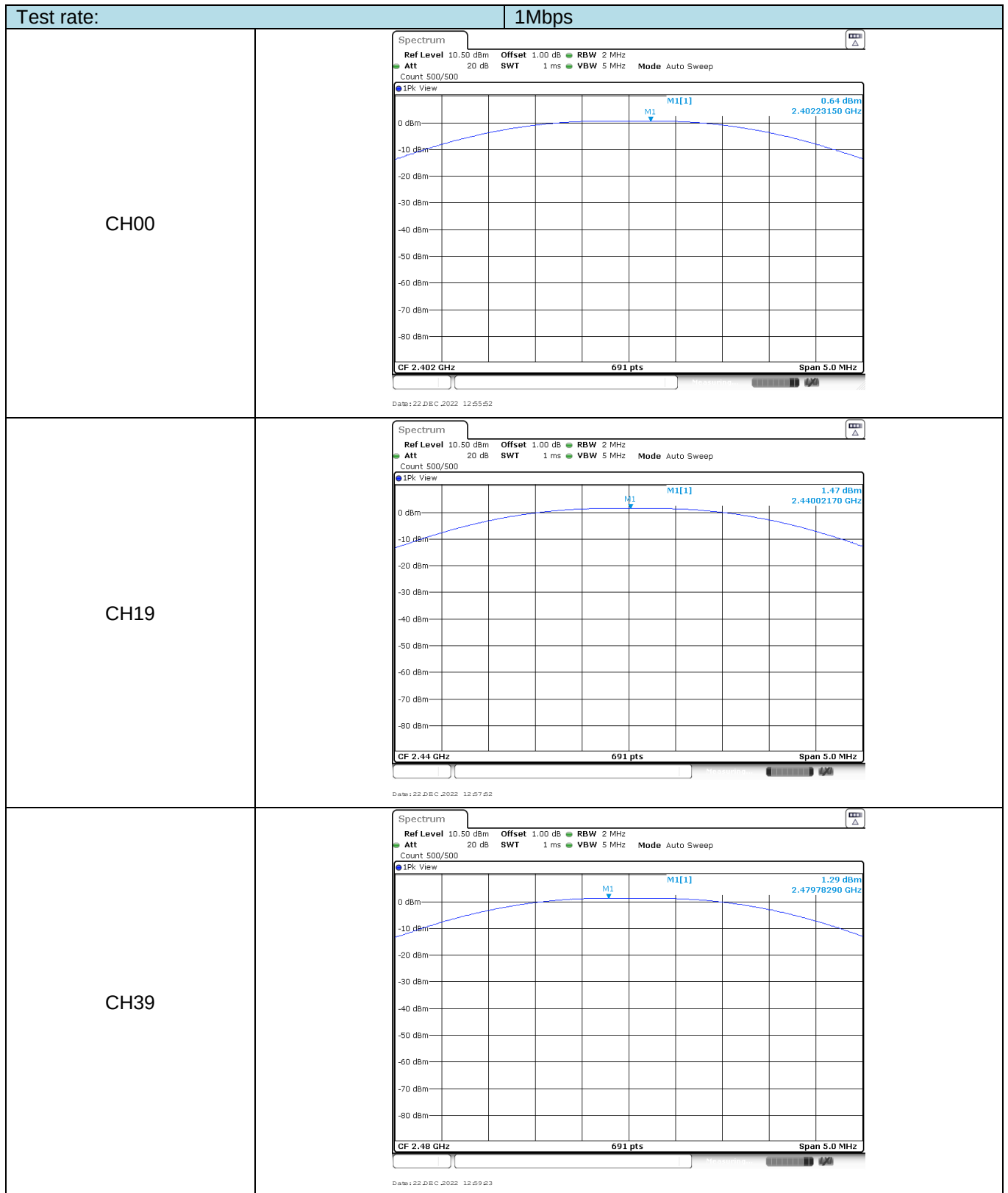
APPENDIX REPORT

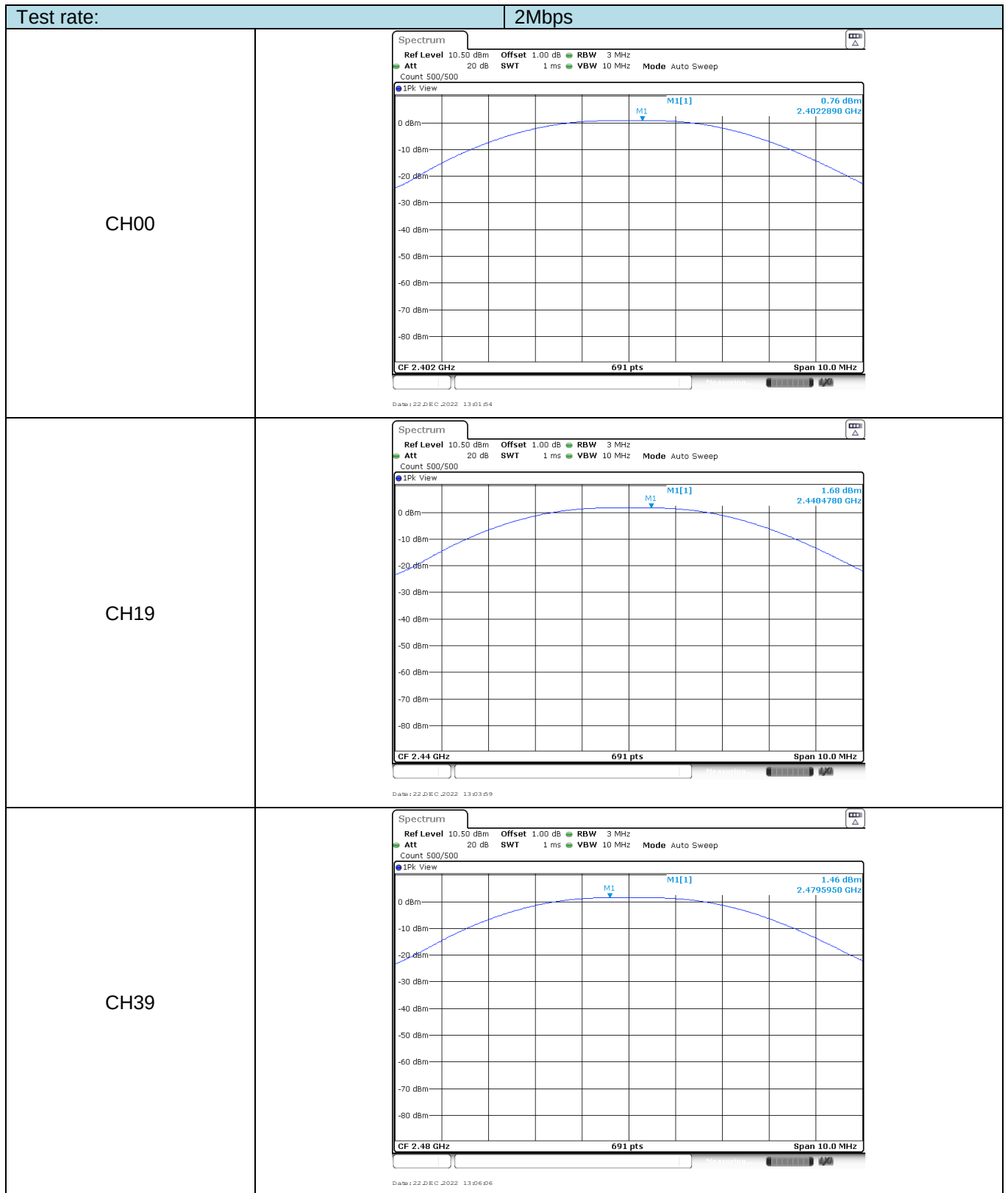
Project No.	SHT2208212702EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT22082127001	Model No.	AET-F342
Start test date	2022-12-22	Finish date	2022-12-22
Temperature	20.7℃	Humidity	20%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zheo

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	0.64	0.61	≤ 30.00	Pass
	19	1.47	1.42		
	39	1.29	1.26		
2Mbps	00	0.76	0.54	≤ 30.00	Pass
	19	1.68	1.36		
	39	1.46	1.18		



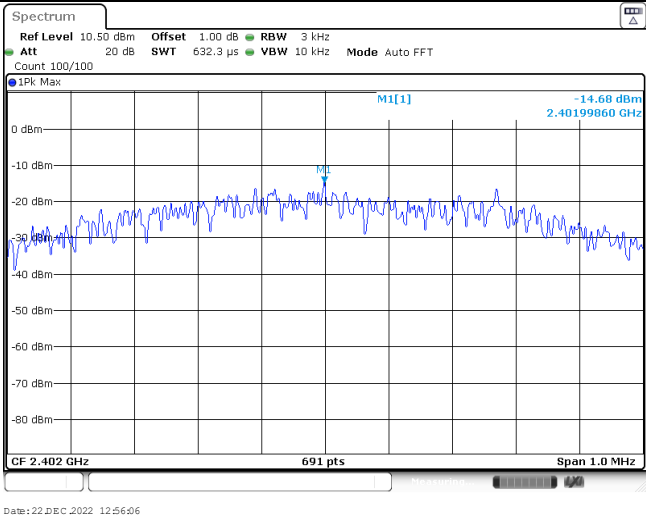


Appendix B: Power Spectral Density

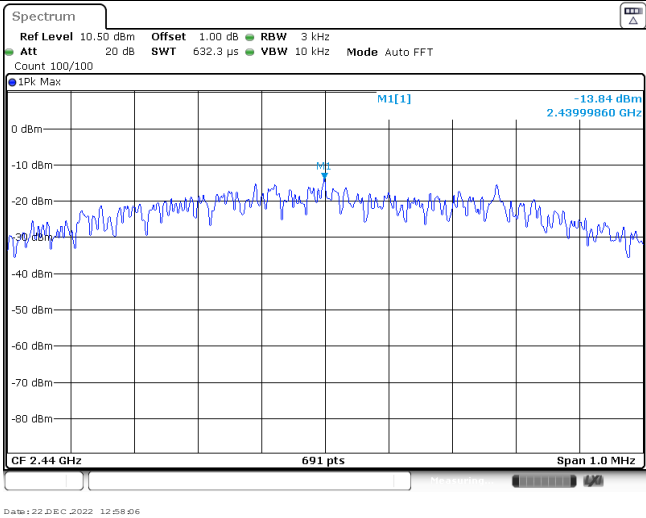
Test rate	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
1Mbps	00	-14.68	≤8.00	Pass
	19	-13.84		
	39	-14.25		
2Mbps	00	-17.22	≤8.00	Pass
	19	-16.53		
	39	-17.24		

Test rate: 1Mbps

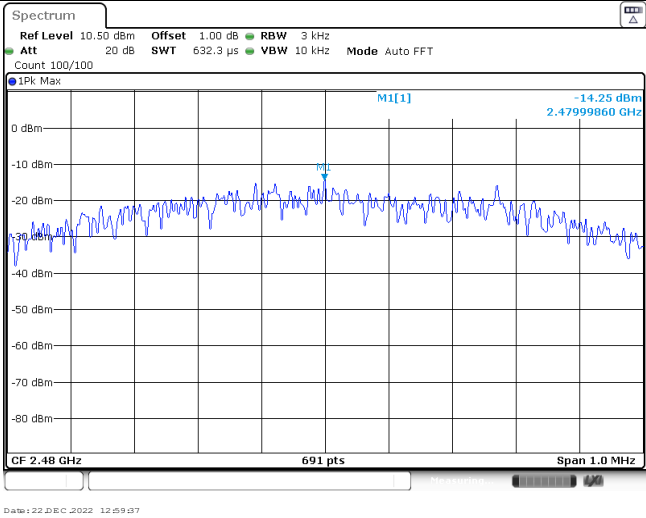
CH00

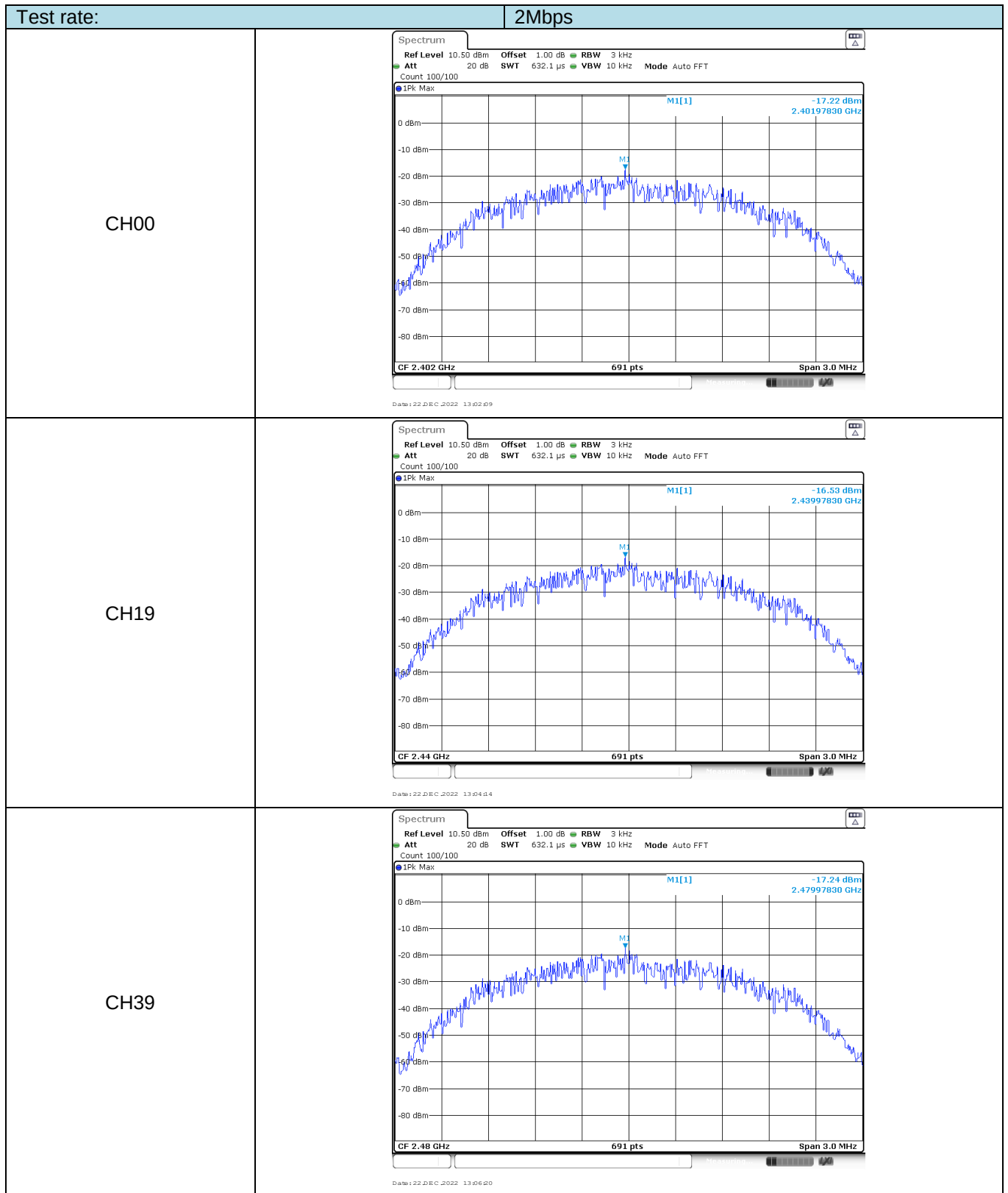


CH19



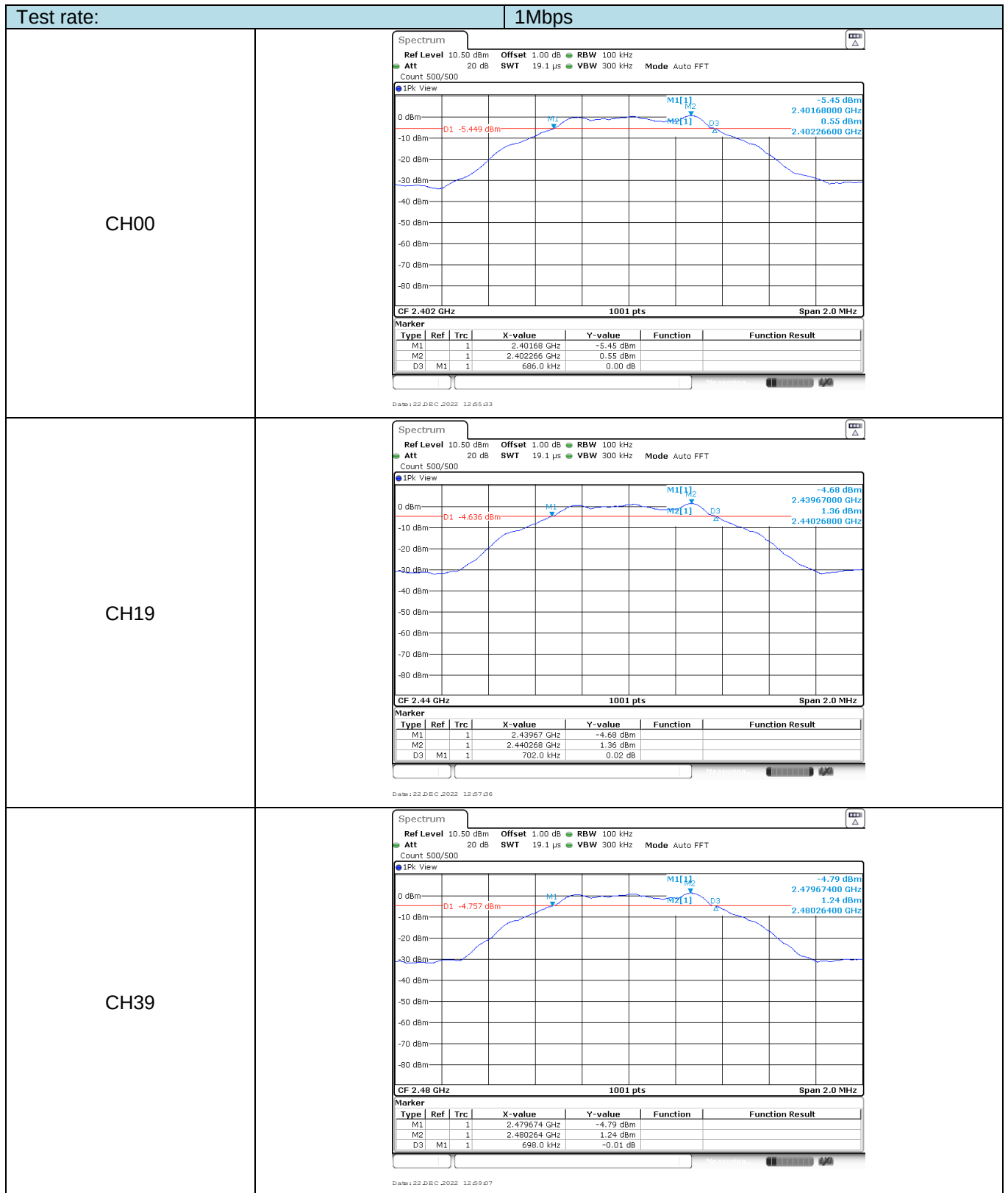
CH39

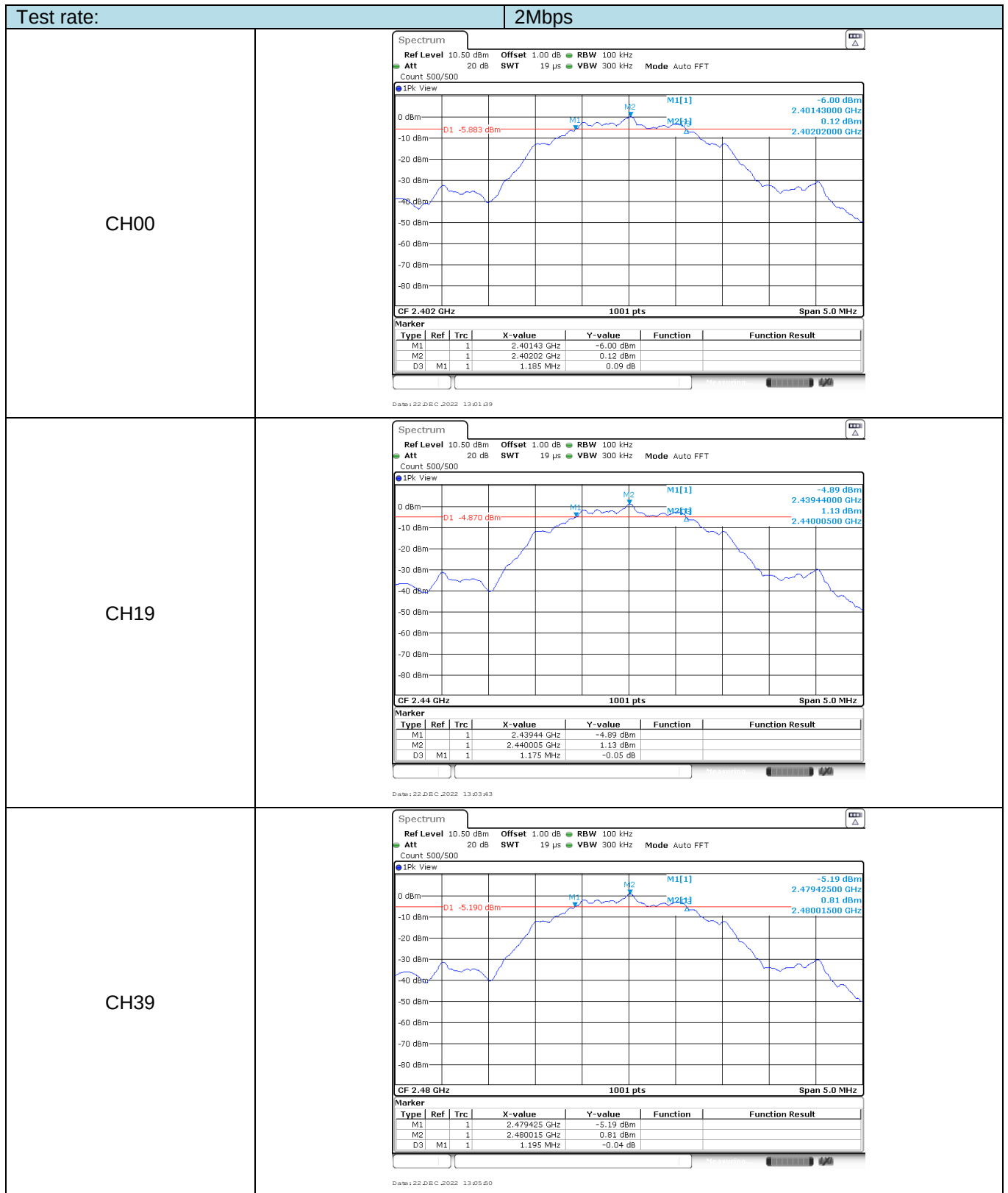




Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
1Mbps	00	686.00	≥500	Pass
	19	702.00		
	39	698.00		
2Mbps	00	1185.00	≥500	Pass
	19	1175.00		
	39	1195.00		

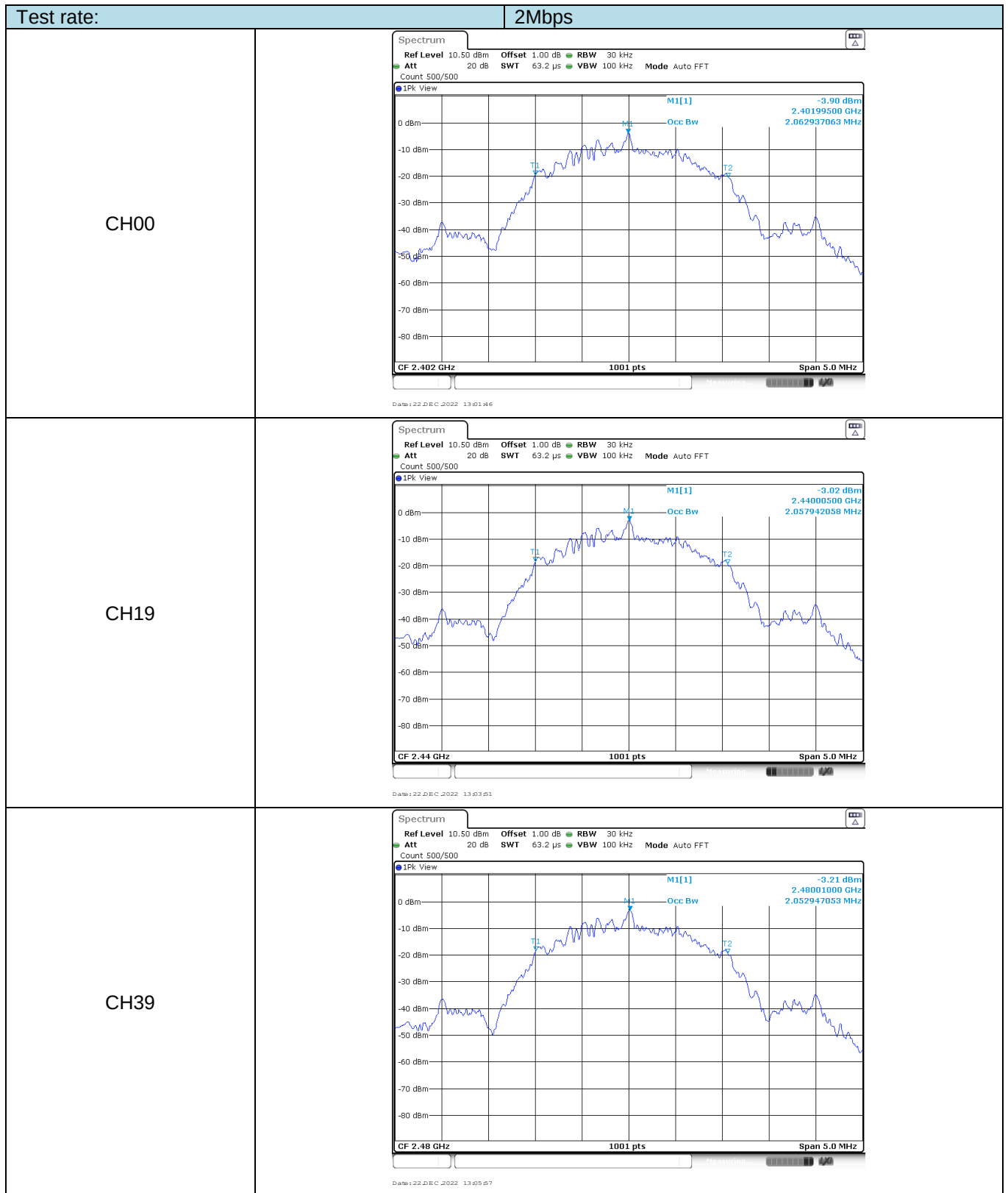




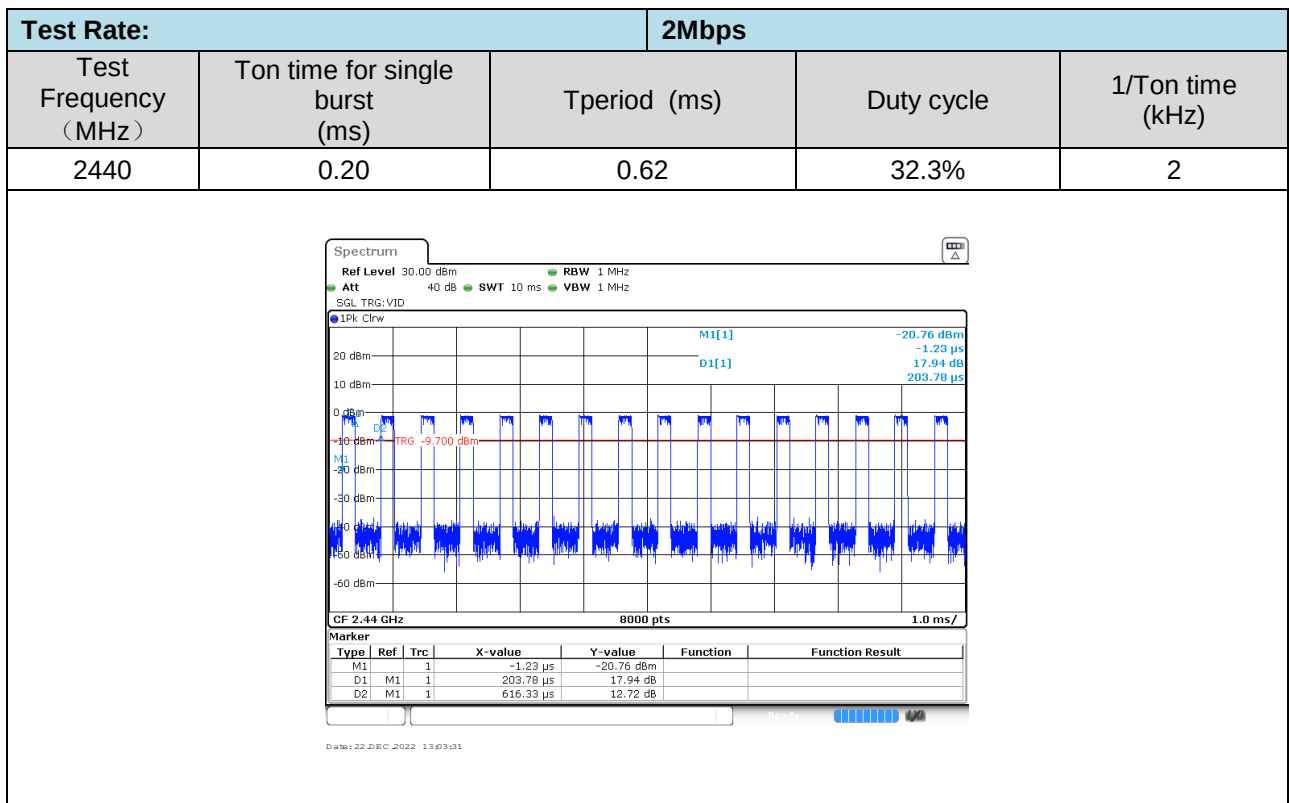
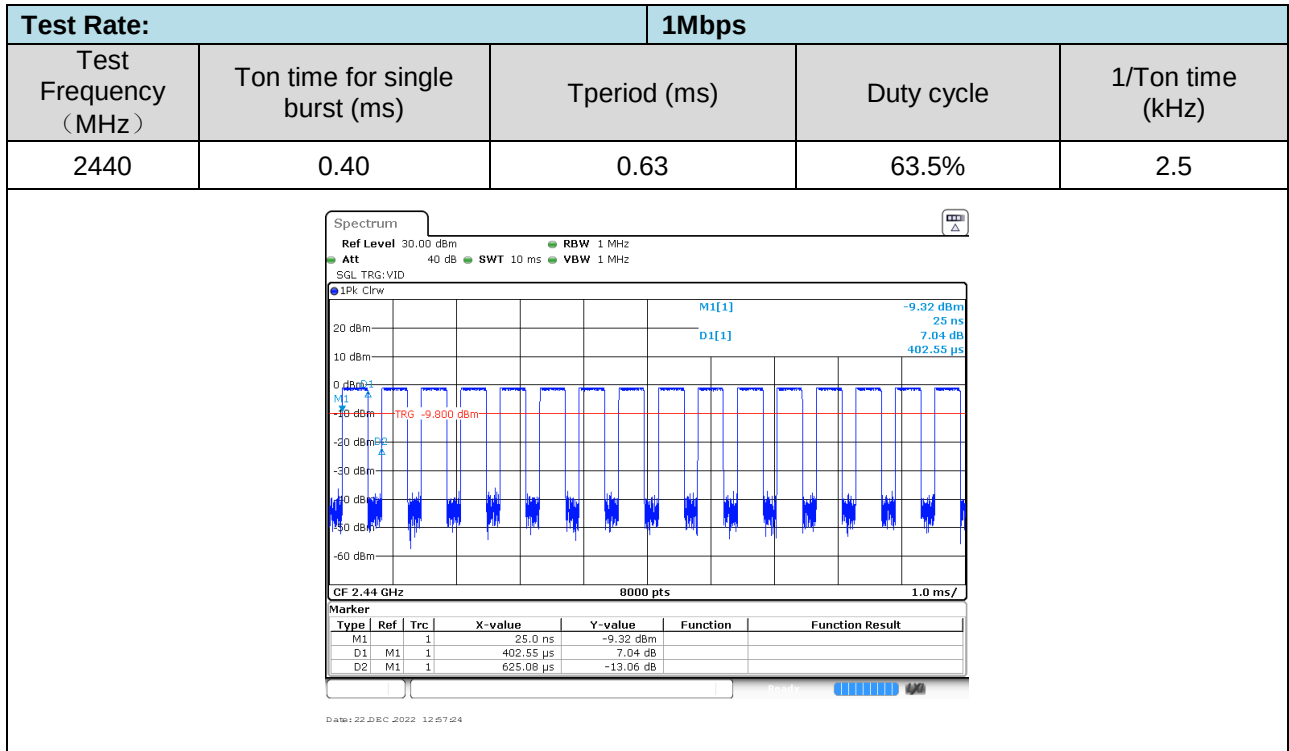
Appendix D: 99% Occupied Bandwidth

Test rate	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
1Mbps	00	1.02	-	Pass
	19	1.02		
	39	1.02		
2Mbps	00	2.06	-	Pass
	19	2.06		
	39	2.05		

Test rate: 1Mbps	
CH00	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 30 kHz Att 20 dB SWT 63.3 μs VBW 100 kHz Mode Auto FFT Count 500/500 IPk View 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm M1[1] -1.70 dBm 2.40200200 GHz 1.022977023 MHz T1 T2 Occ Bw CF 2.402 GHz 1001 pts Span 2.0 MHz Date: 22 DEC 2022 12:55:43
CH19	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 30 kHz Att 20 dB SWT 63.3 μs VBW 100 kHz Mode Auto FFT Count 500/500 IPk View 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm M1[1] -1.03 dBm 2.44001000 GHz 1.024975025 MHz T1 T2 Occ Bw CF 2.44 GHz 1001 pts Span 2.0 MHz Date: 22 DEC 2022 12:57:44
CH39	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 30 kHz Att 20 dB SWT 63.3 μs VBW 100 kHz Mode Auto FFT Count 500/500 IPk View 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm M1[1] -1.31 dBm 2.48001000 GHz 1.022977023 MHz T1 T2 Occ Bw CF 2.48 GHz 1001 pts Span 2.0 MHz Date: 22 DEC 2022 12:59:15



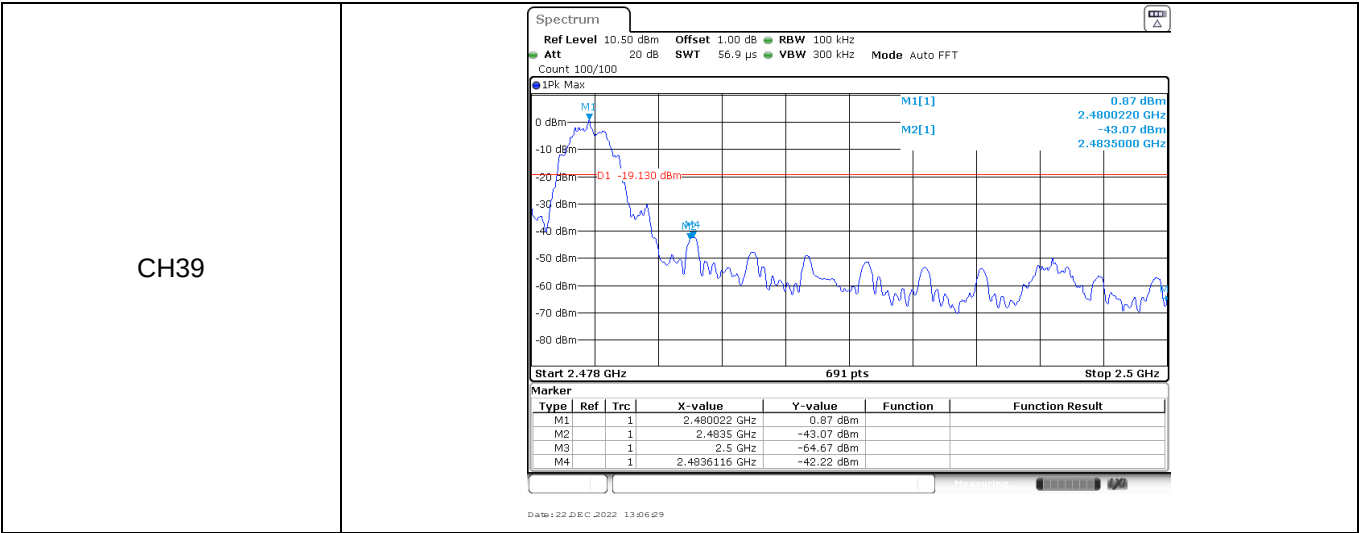
Appendix E: Duty cycle

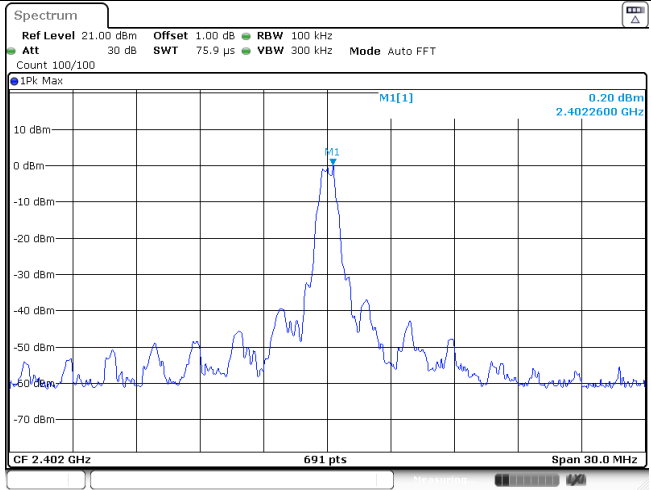
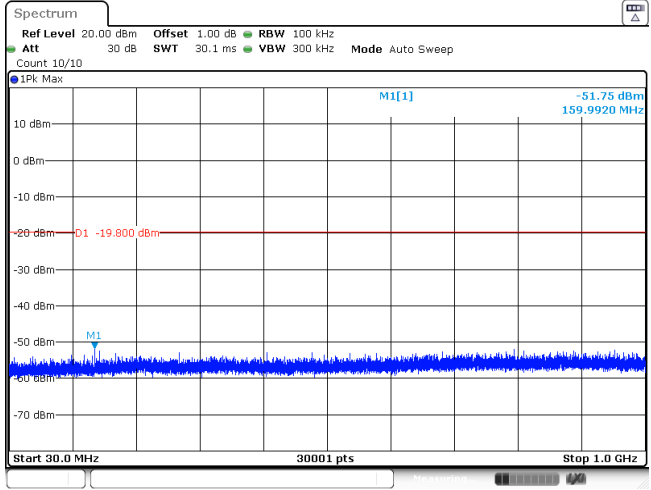
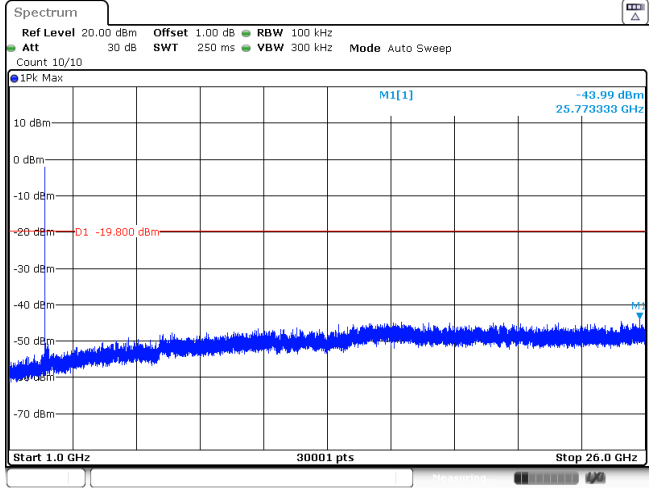


Appendix F: Band edge and Spurious Emissions (conducted)

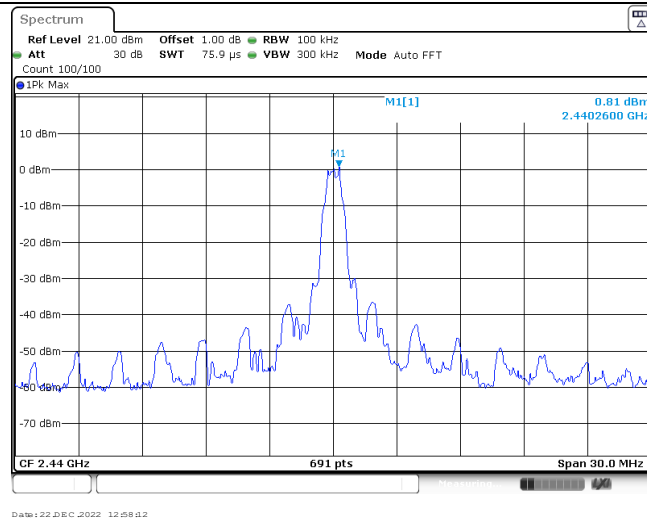
Test Item:	Band edge	Test Rate:	1Mbps																																								
CH00	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm M1[1] -1.23 dBm 2.402320 GHz M2[1] -39.98 dBm 2.400000 GHz D1 -21.230 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>2.40232 GHz</td><td>-1.23 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-39.98 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-54.79 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-65.29 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399906 GHz</td><td>-40.42 dBm</td><td></td><td></td></tr></table> Date: 22 DEC 2022 12:56:15	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40232 GHz	-1.23 dBm			M2	1		2.4 GHz	-39.98 dBm			M3	1		2.39 GHz	-54.79 dBm			M4	1		2.31 GHz	-65.29 dBm			M5	1		2.399906 GHz	-40.42 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																					
M1	1		2.40232 GHz	-1.23 dBm																																							
M2	1		2.4 GHz	-39.98 dBm																																							
M3	1		2.39 GHz	-54.79 dBm																																							
M4	1		2.31 GHz	-65.29 dBm																																							
M5	1		2.399906 GHz	-40.42 dBm																																							
CH39	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 56.9 μs VBW 300 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 dBm 2.4802760 GHz M2[1] -54.91 dBm 2.4835000 GHz D1 -18.090 dBm Start 2.478 GHz 691 pts Stop 2.5 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>2.480276 GHz</td><td>1.11 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-54.91 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-57.99 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4838986 GHz</td><td>-41.86 dBm</td><td></td><td></td></tr></table> Date: 22 DEC 2022 12:59:46	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.480276 GHz	1.11 dBm			M2	1		2.4835 GHz	-54.91 dBm			M3	1		2.5 GHz	-57.99 dBm			M4	1		2.4838986 GHz	-41.86 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																					
M1	1		2.480276 GHz	1.11 dBm																																							
M2	1		2.4835 GHz	-54.91 dBm																																							
M3	1		2.5 GHz	-57.99 dBm																																							
M4	1		2.4838986 GHz	-41.86 dBm																																							

Test Item:	Band edge	Test Rate:	2Mbps																																								
CH00	Spectrum Ref Level 10.50 dBm Offset 1.00 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] -1.29 dBm 2.402040 GHz M2[1] -35.35 dBm 2.400000 GHz D1 -21.340 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>-1.29 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-35.35 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-61.71 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.88 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.39963 GHz</td><td>-39.47 dBm</td><td></td><td></td></tr></table> Date: 22 DEC 2022 13:02:18	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40204 GHz	-1.29 dBm			M2	1		2.4 GHz	-35.35 dBm			M3	1		2.39 GHz	-61.71 dBm			M4	1		2.31 GHz	-64.88 dBm			M5	1		2.39963 GHz	-39.47 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																					
M1	1		2.40204 GHz	-1.29 dBm																																							
M2	1		2.4 GHz	-35.35 dBm																																							
M3	1		2.39 GHz	-61.71 dBm																																							
M4	1		2.31 GHz	-64.88 dBm																																							
M5	1		2.39963 GHz	-39.47 dBm																																							

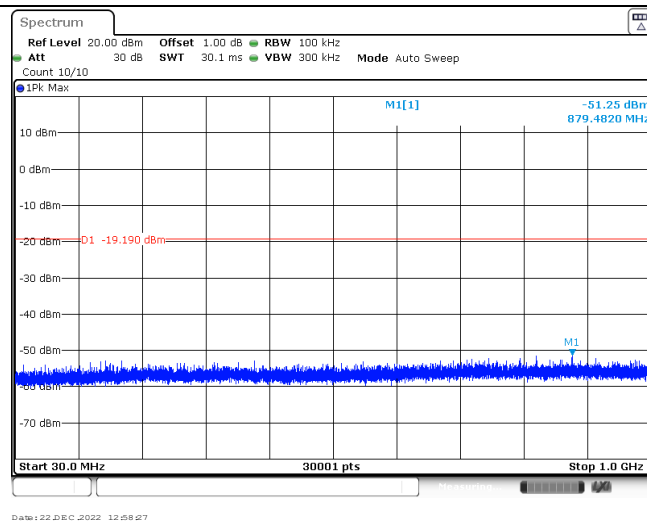


Test Item:	SE	Test Rate:	1Mbps
CH00 Reference level	 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max 0.20 dBm 2.4022600 GHz CF 2.402 GHz 691 pts Span 30.0 MHz Date: 22 DEC 2022 12:56:23		
CH00 30MHz~1000MHz	 Spectrum Ref Level 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 1Pk Max -51.75 dBm 159.9920 MHz Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 22 DEC 2022 12:56:38		
CH00 1GHz~26GHz	 Spectrum 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 1Pk Max -43.99 dBm 25.773333 GHz Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 22 DEC 2022 12:56:55		

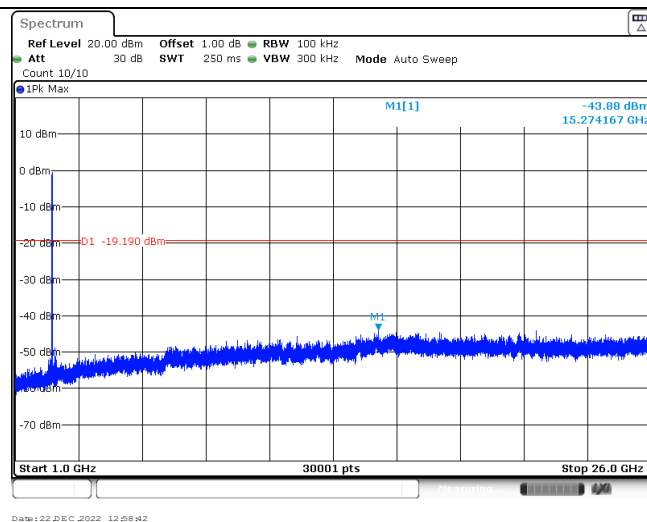
CH19
Reference level



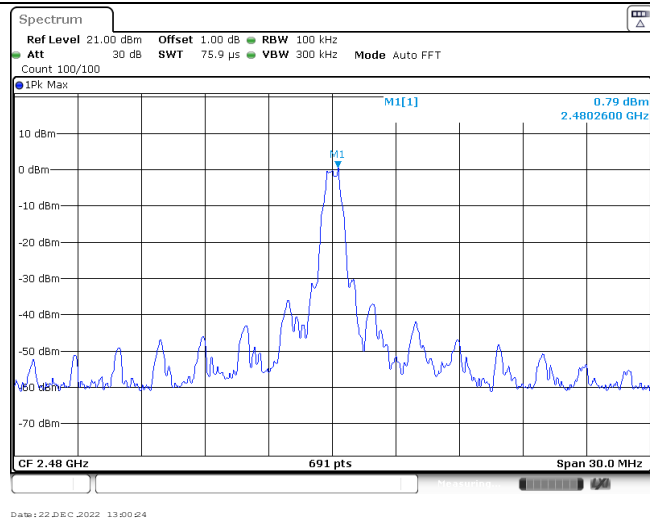
CH19
30MHz~1000MHz



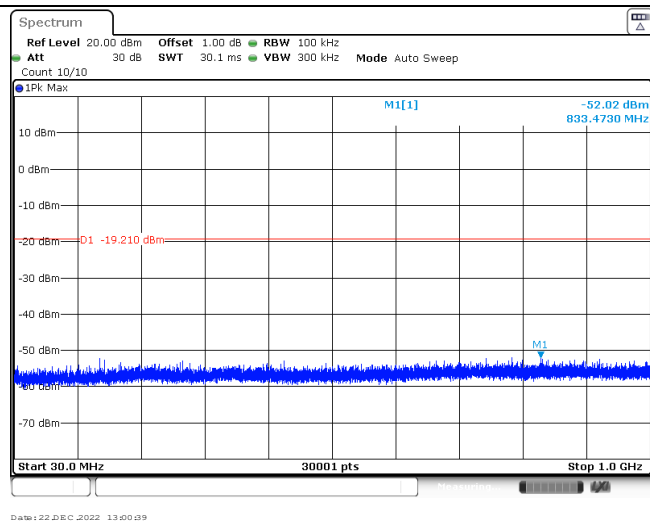
CH19
1GHz~26GHz



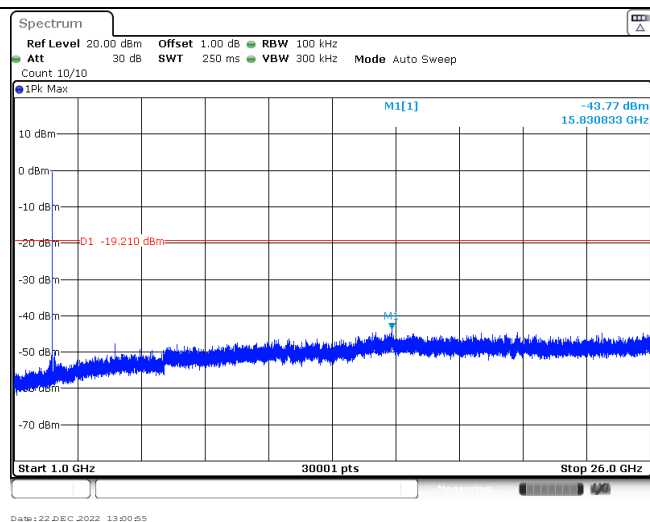
CH39
Reference level

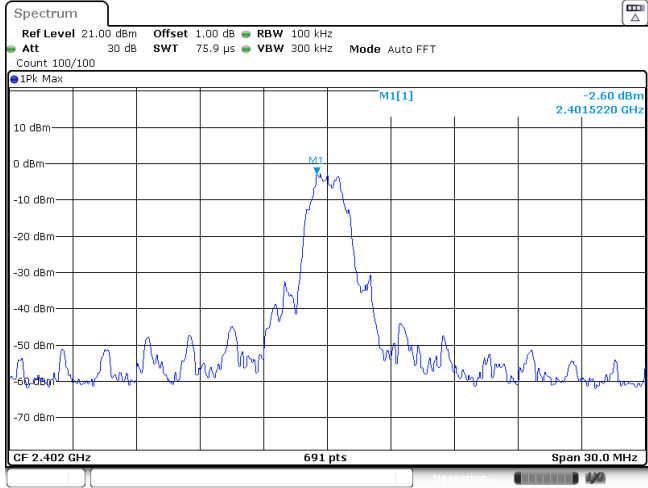
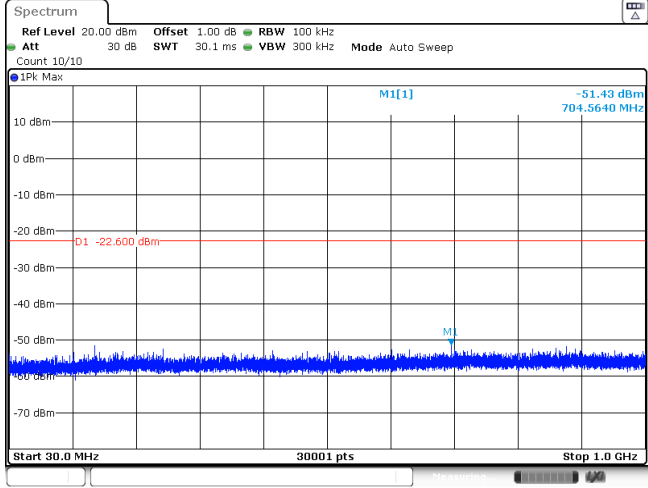
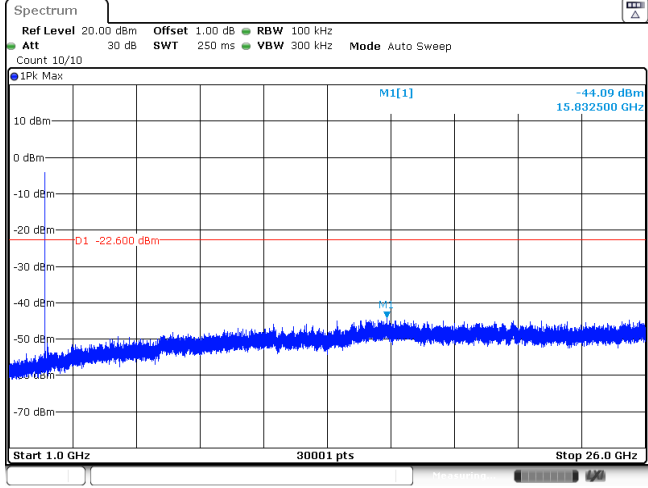


CH39
30MHz~1000MHz

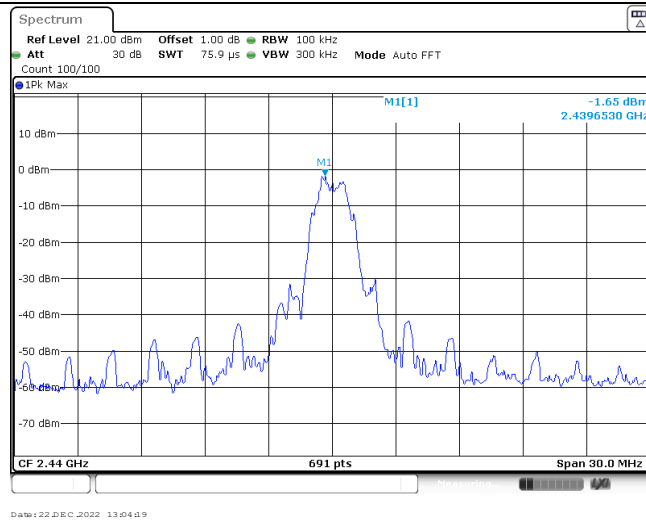


CH39
1GHz~26GHz

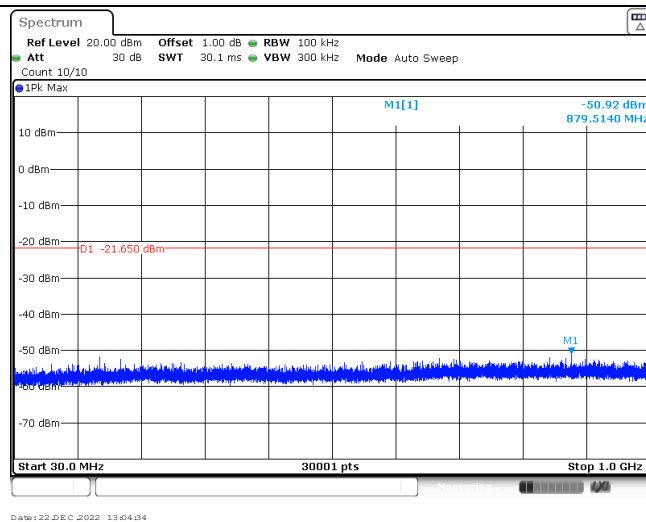


Test Item:	SE	Test Rate:	2Mbps
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

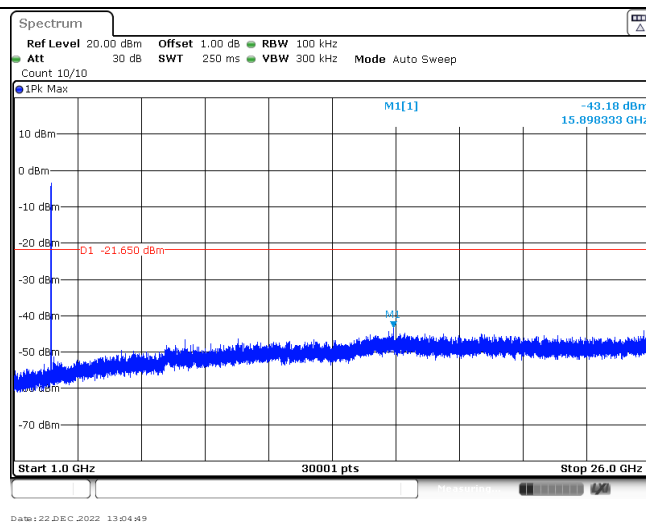
CH19
Reference level

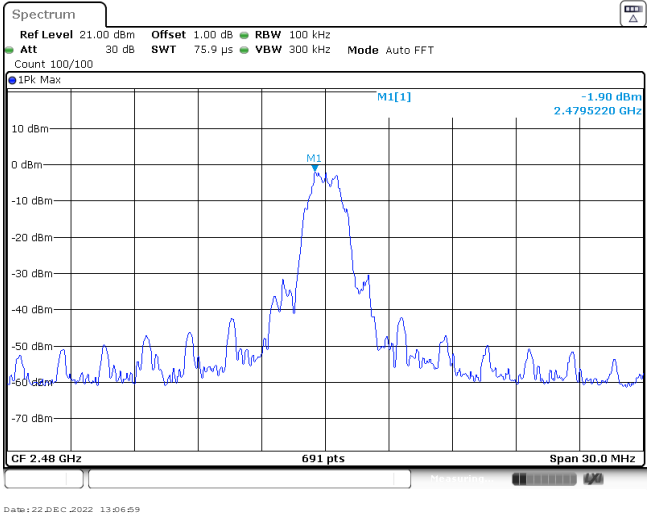
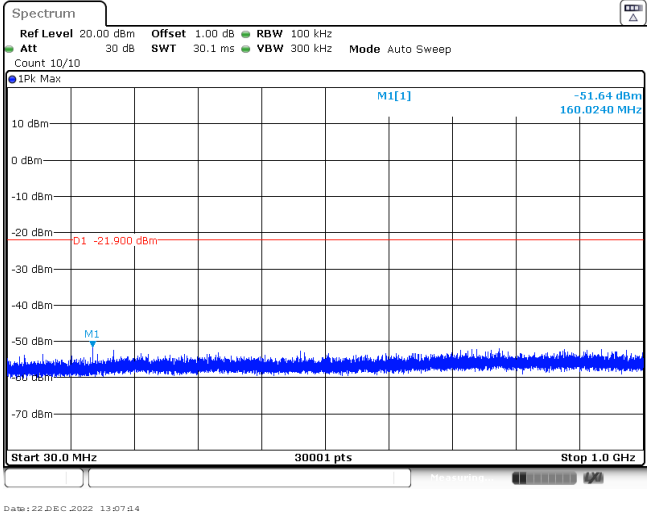
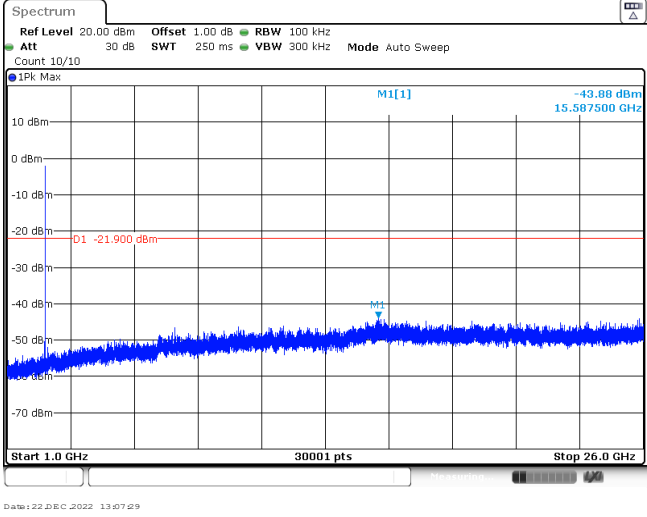


CH19
30MHz~1000MHz



CH19
1GHz~26GHz



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

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