

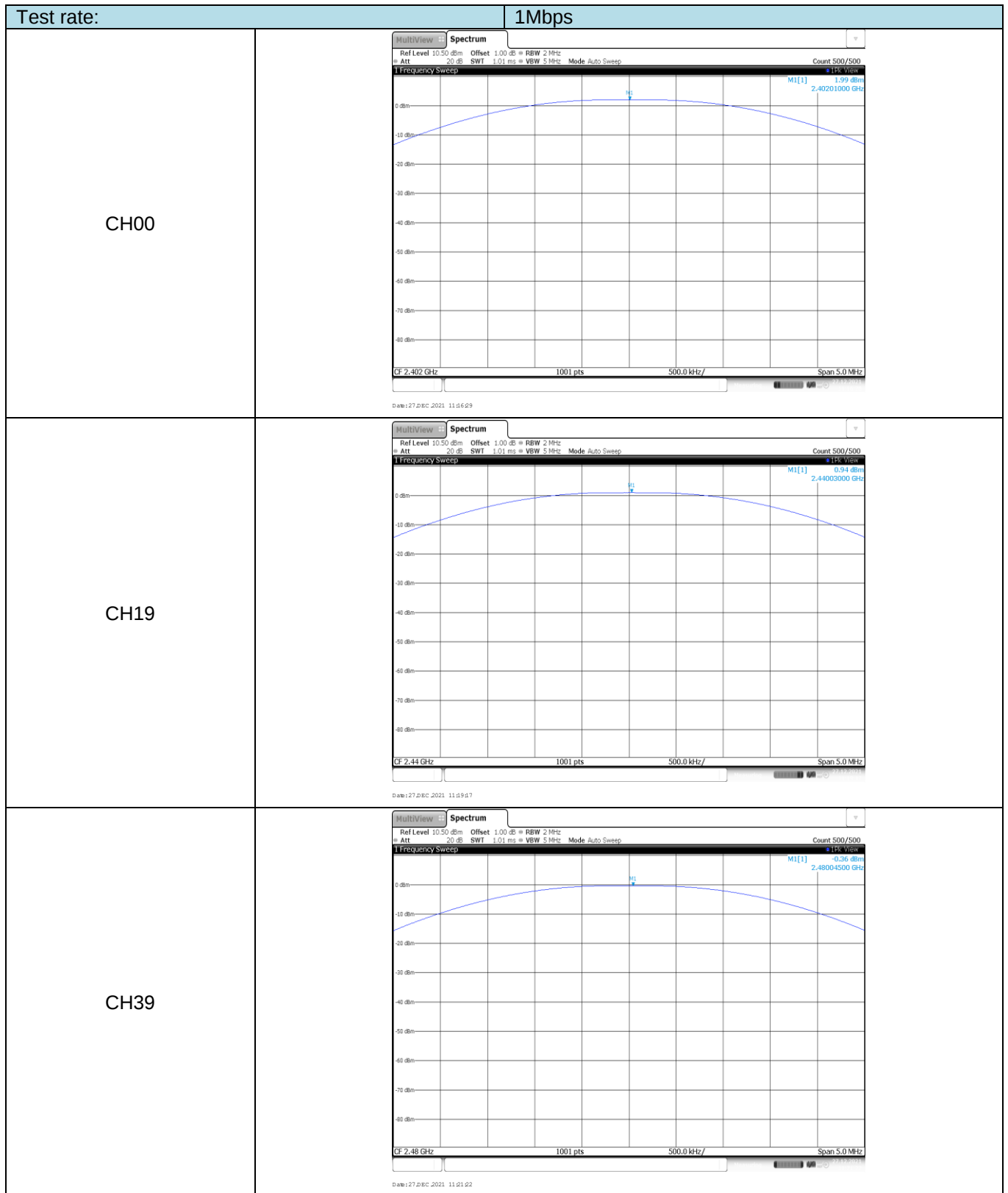
APPENDIX REPORT

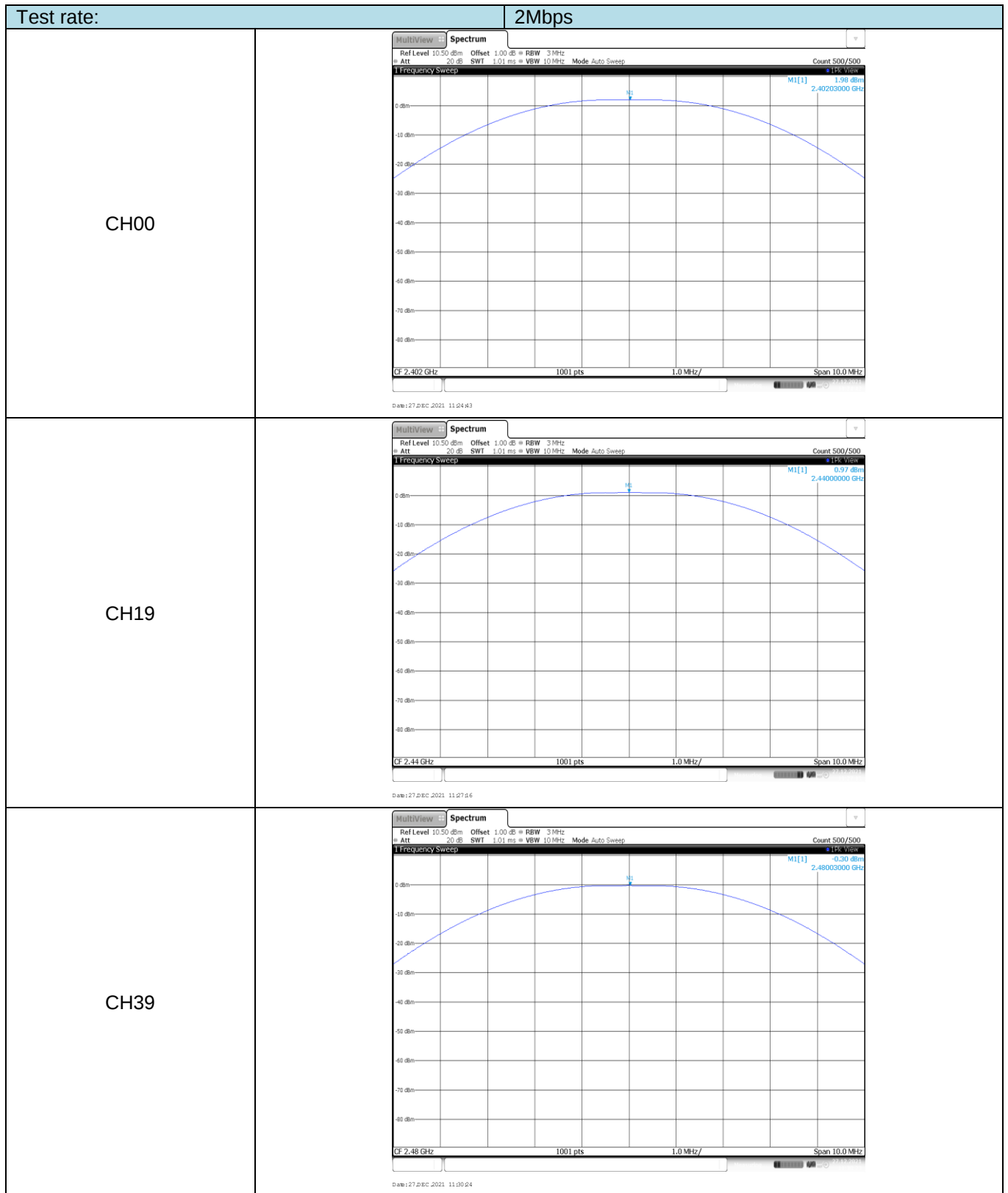
Project No.	SHT2111035102EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21110351010	Model No.	LitBike
Start test date	2021-12-27	Finish date	2021-12-27
Temperature	22.6℃	Humidity	36%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zheo

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

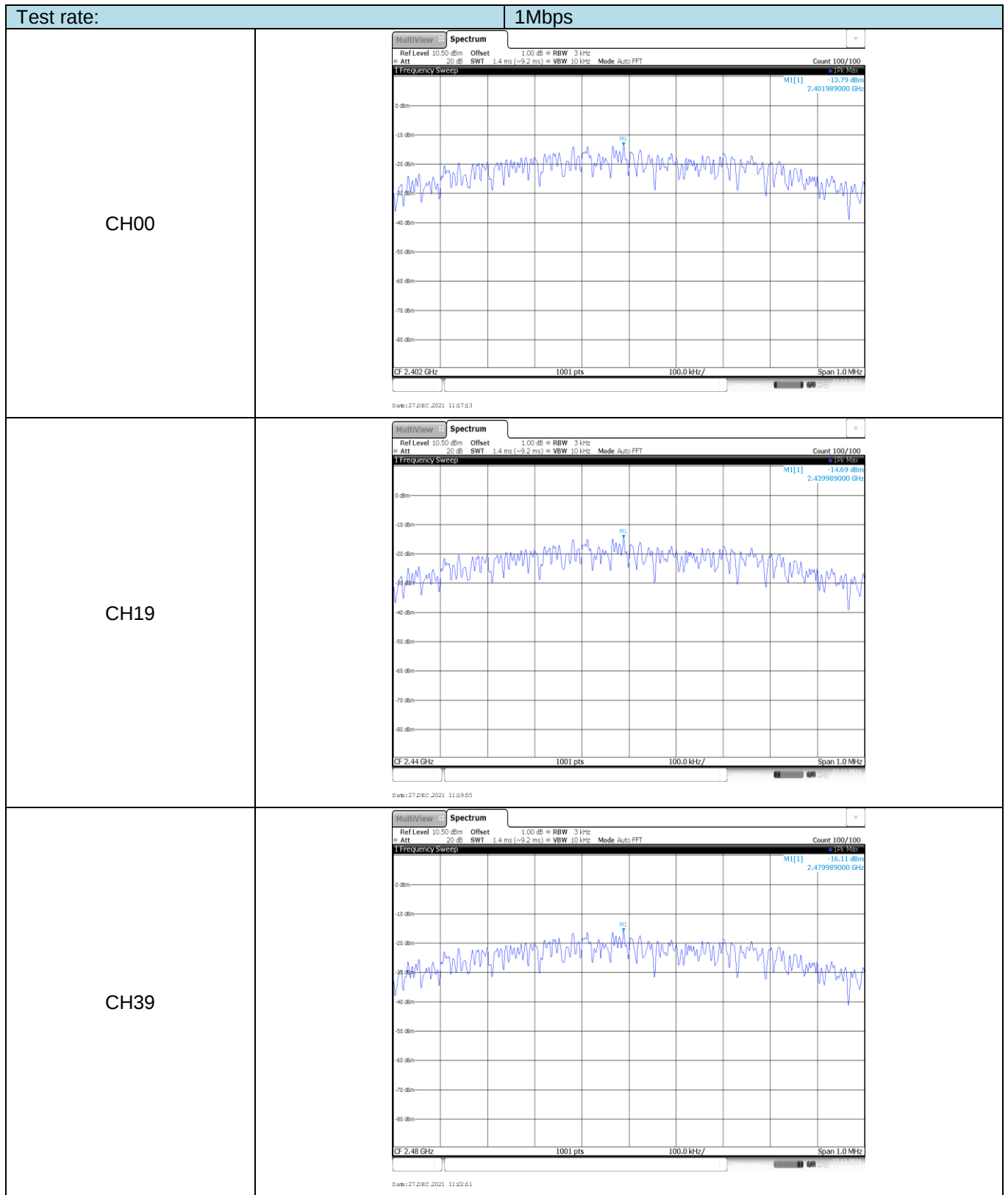
Test rate	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
1Mbps	00	1.99	1.82	≤ 30.00	Pass
	19	0.94	0.76		
	39	-0.36	-0.55		
2Mbps	00	1.98	1.75	≤ 30.00	Pass
	19	0.97	0.74		
	39	-0.30	-0.52		

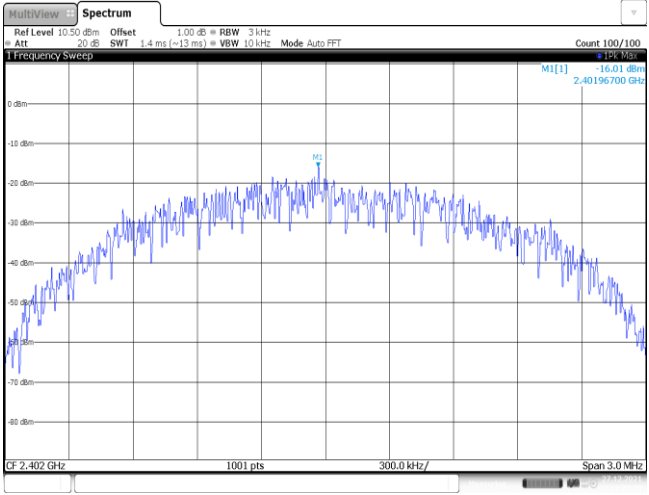
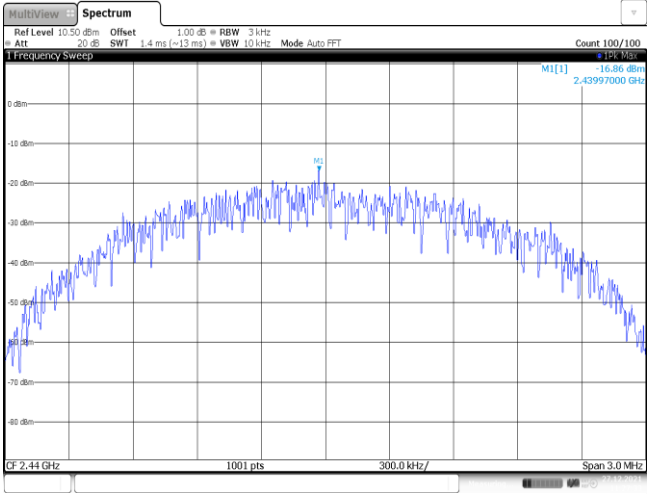
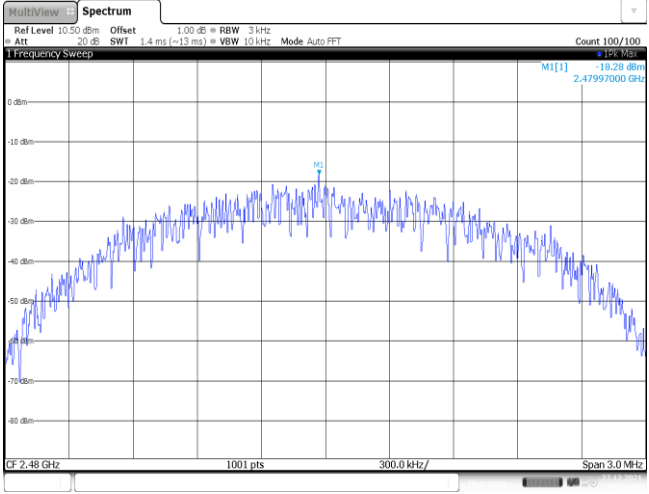




Appendix B: Power Spectral Density

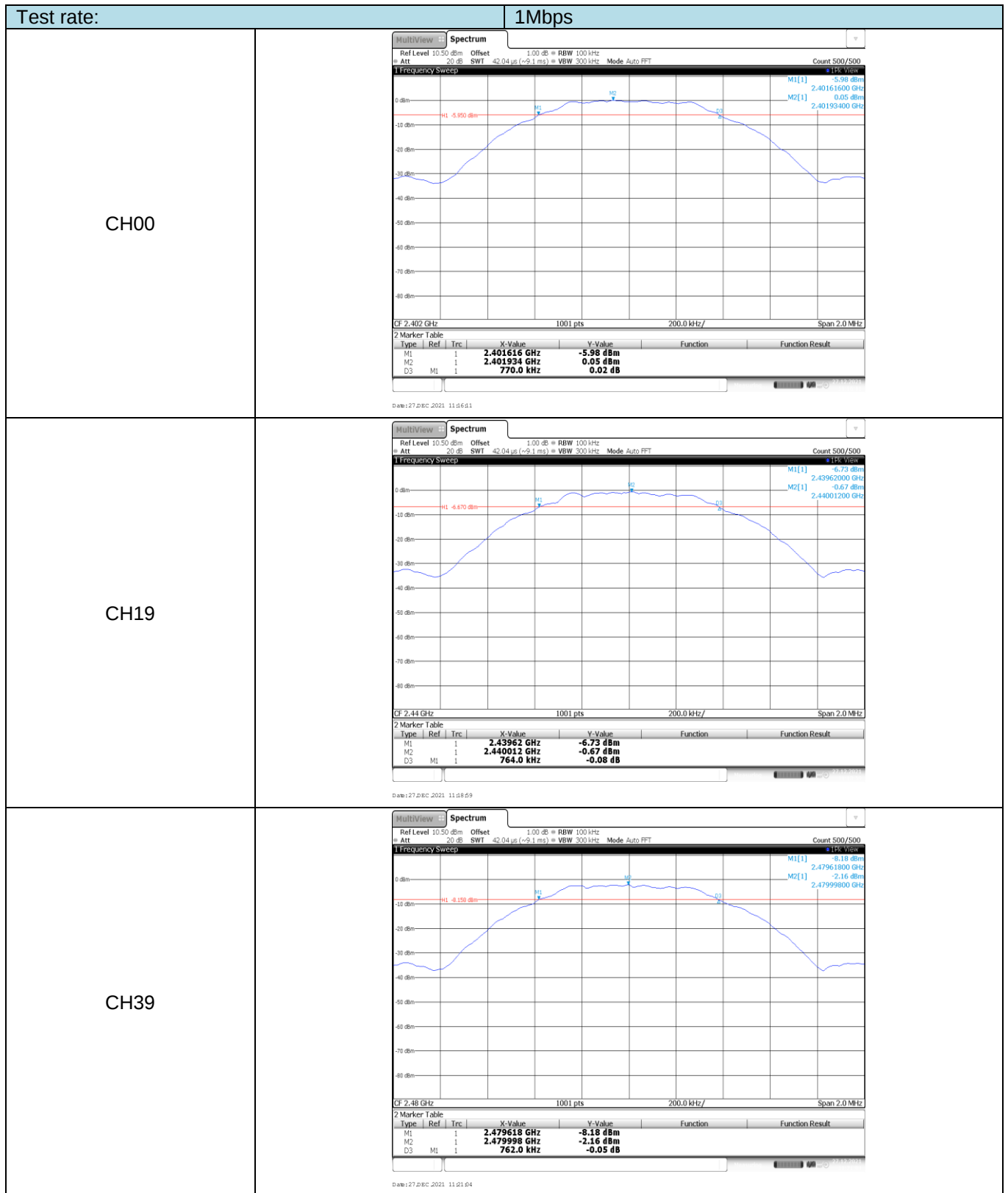
Test rate	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
1Mbps	00	-13.79	≤8.00	Pass
	19	-14.69		
	39	-16.11		
2Mbps	00	-16.01	≤8.00	Pass
	19	-16.86		
	39	-18.28		

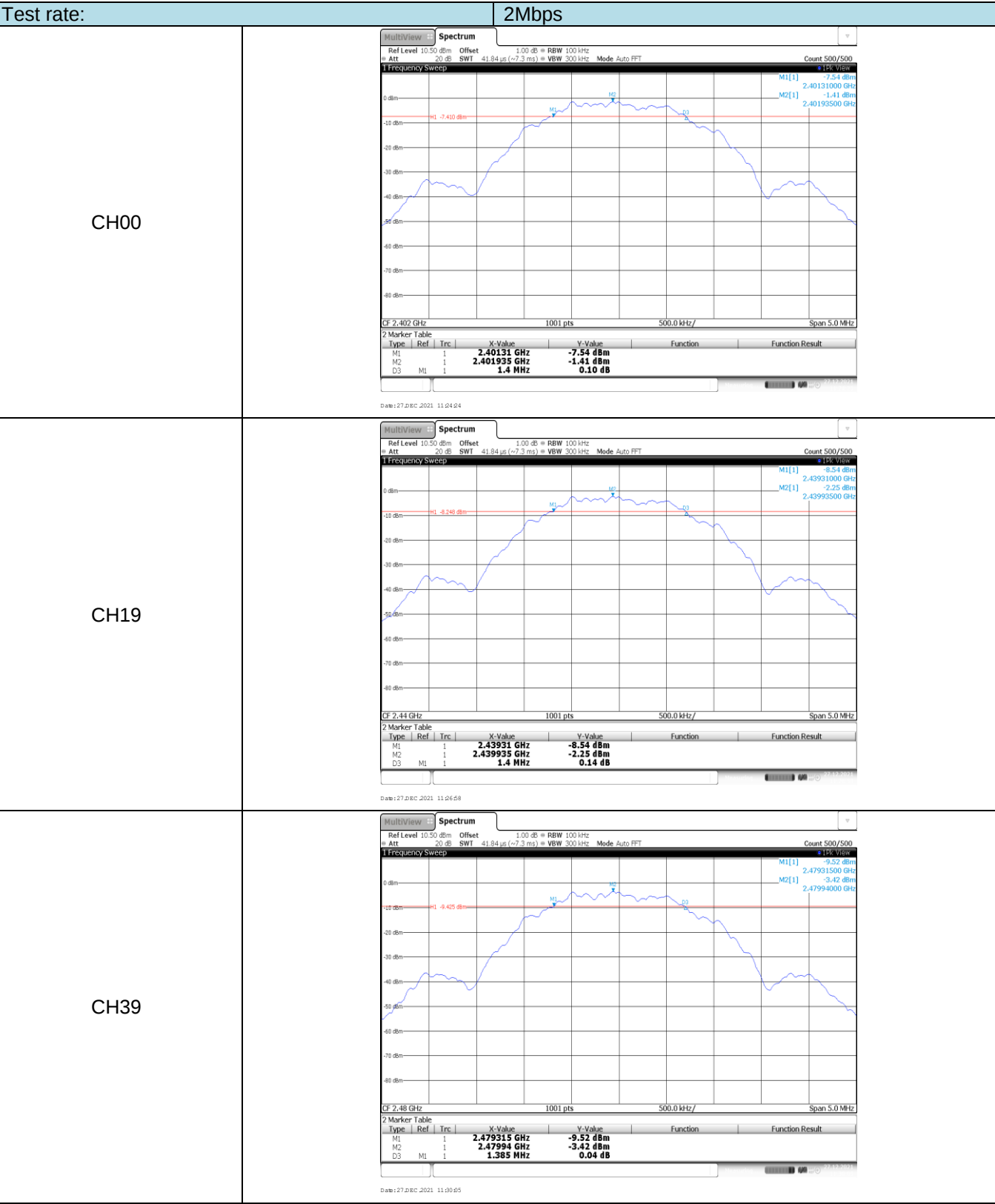


Test rate:		2Mbps
CH00	 Date: 27 DEC 2021 11:25:24	
CH19	 Date: 27 DEC 2021 11:27:02	
CH39	 Date: 27 DEC 2021 11:31:01	

Appendix C: 6dB bandwidth

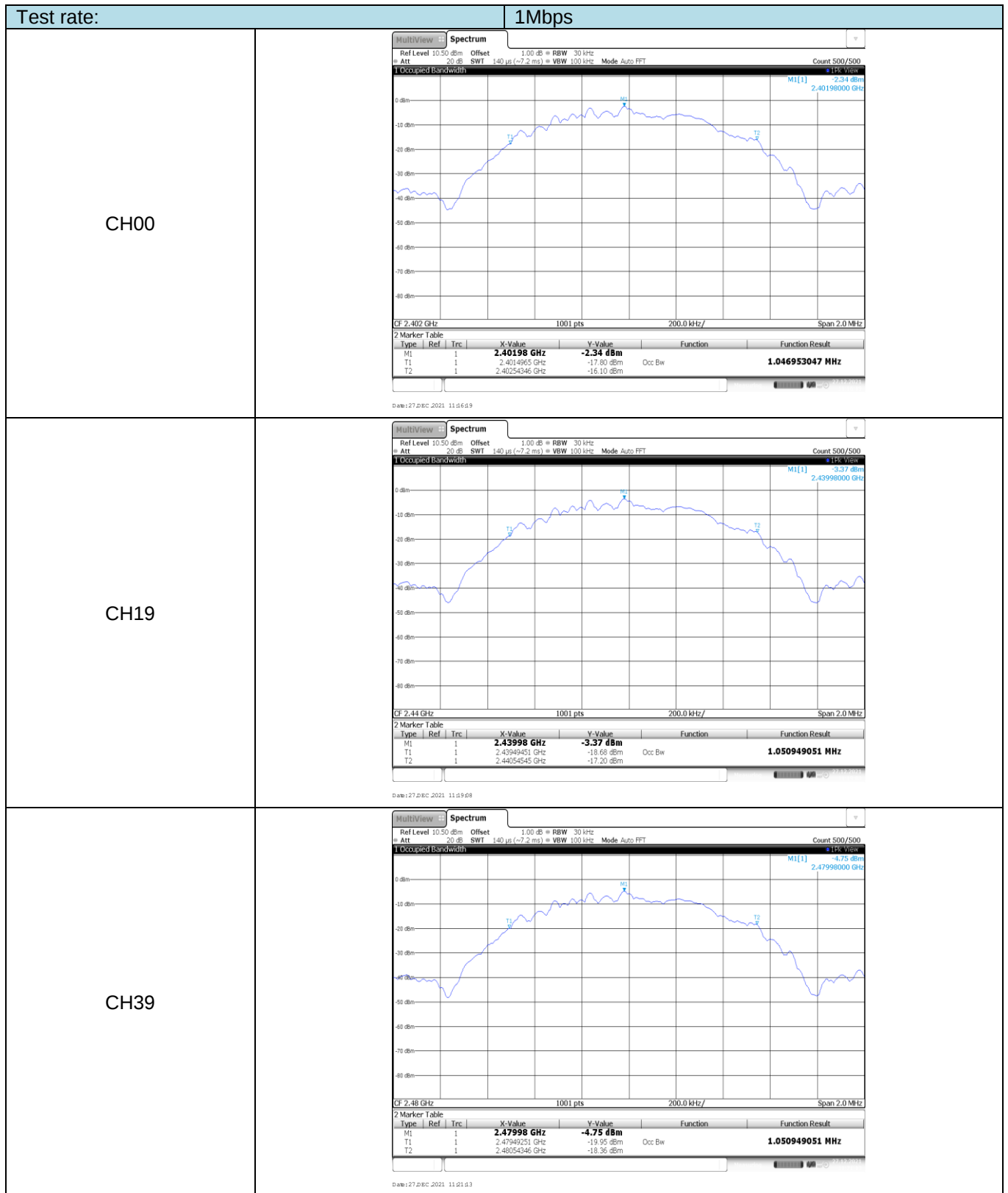
Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
1Mbps	00	770.00	≥500	Pass
	19	764.00		
	39	762.00		
2Mbps	00	1400.00	≥500	Pass
	19	1400.00		
	39	1385.00		

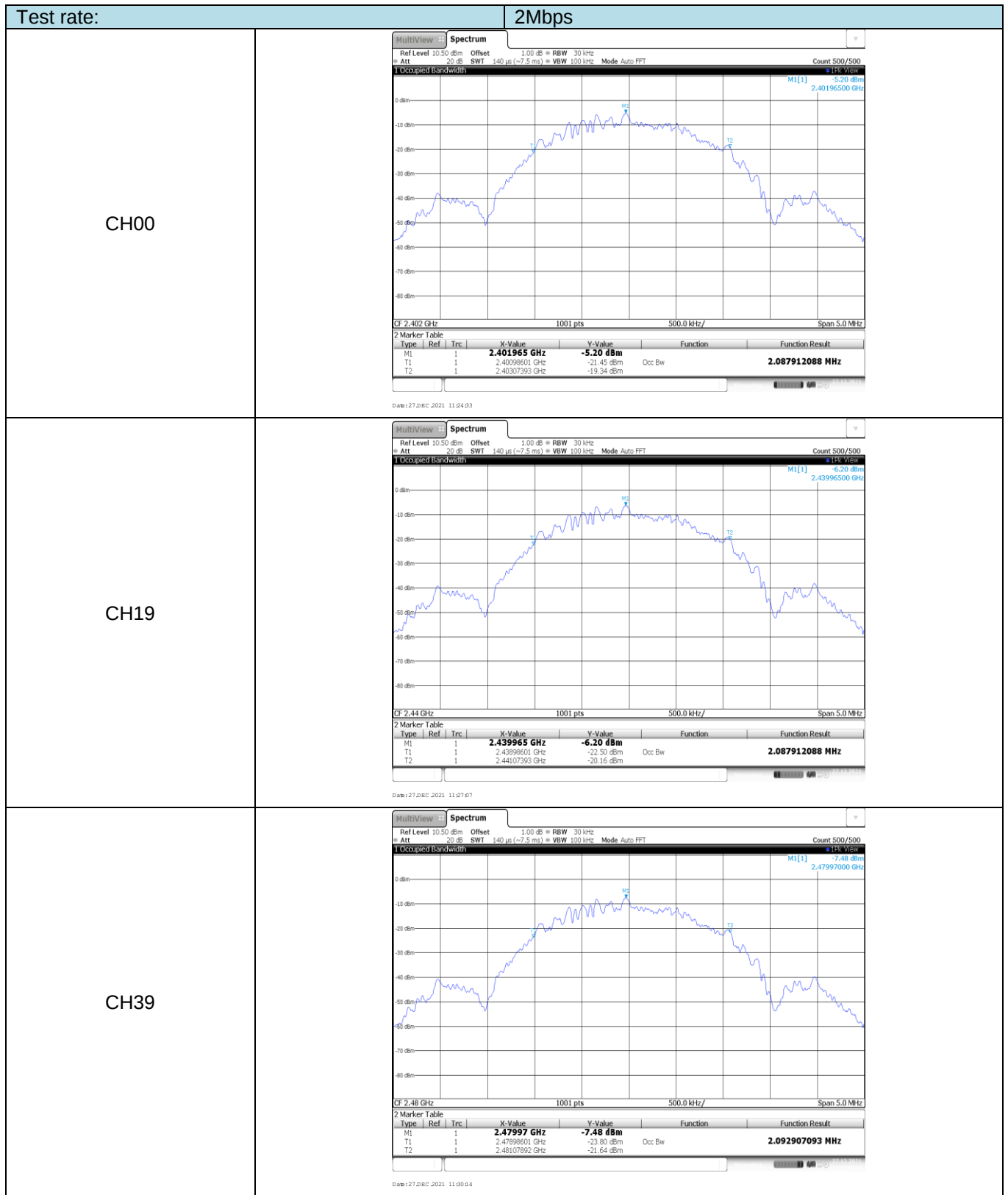




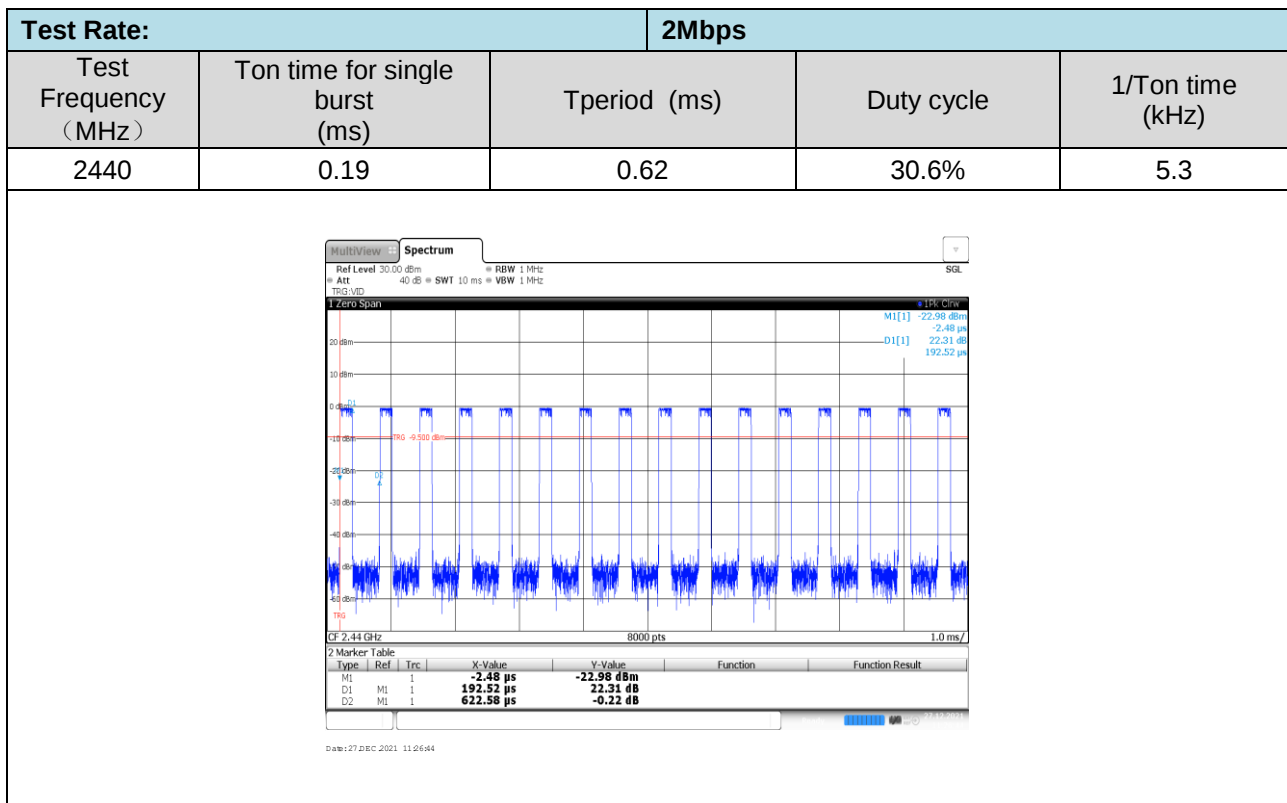
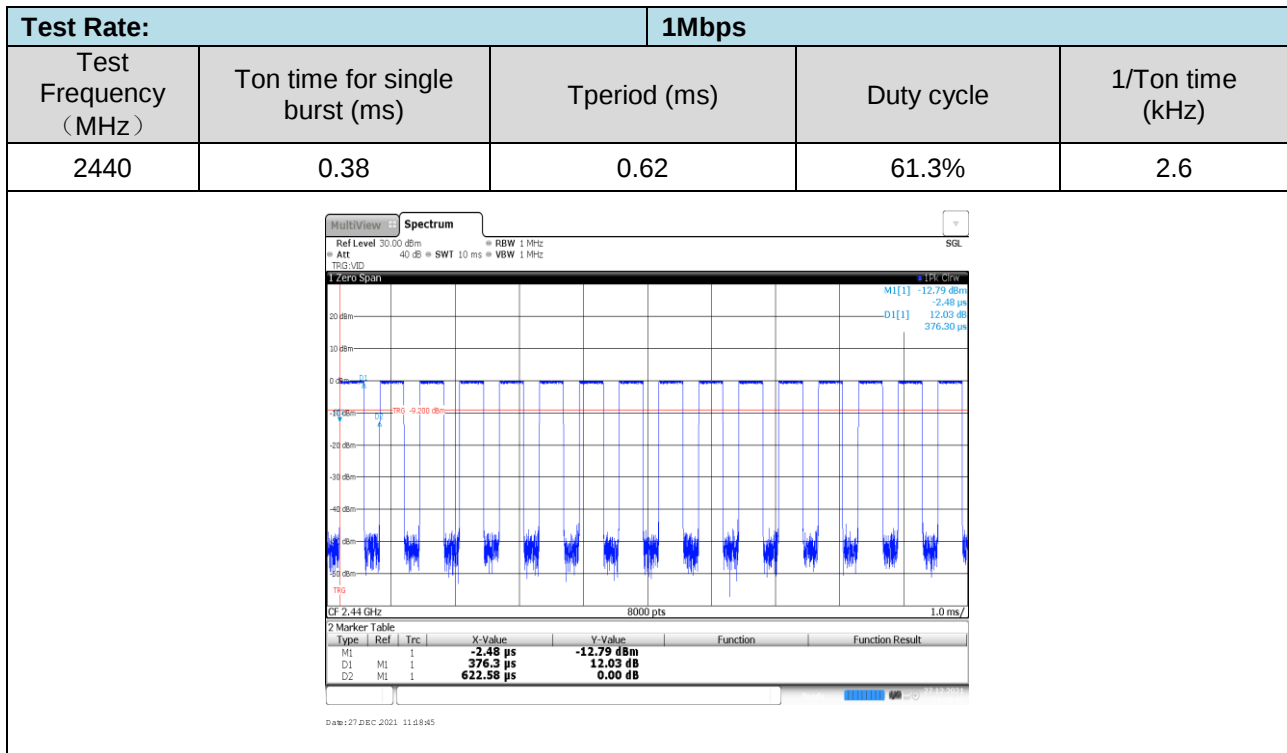
Appendix D: 99% Occupied Bandwidth

Test rate	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
1Mbps	00	1.05	-	Pass
	19	1.05		
	39	1.05		
2Mbps	00	2.09	-	Pass
	19	2.09		
	39	2.09		



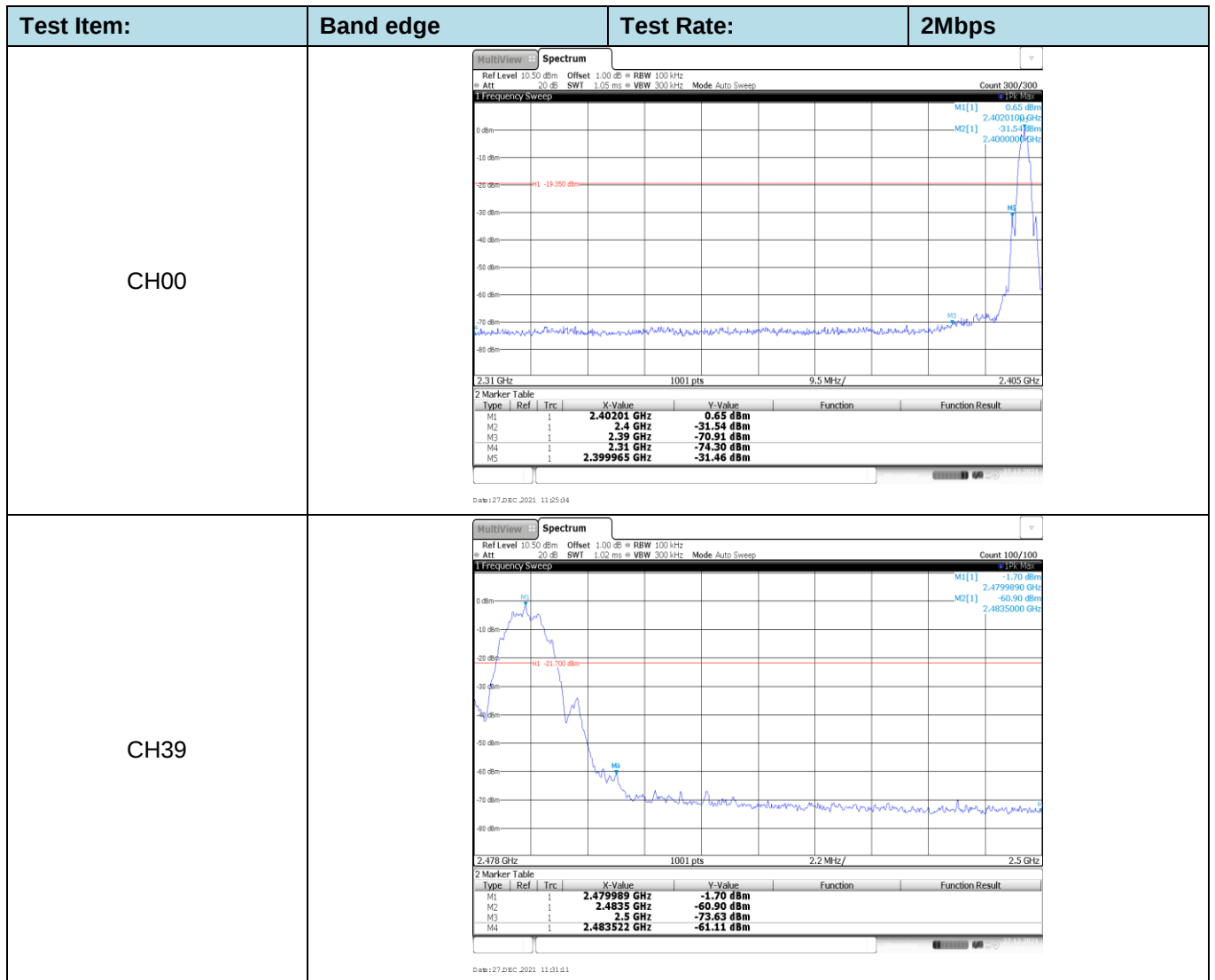


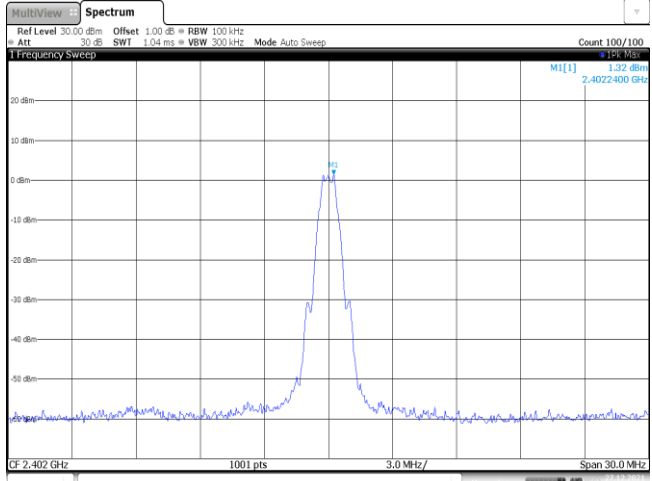
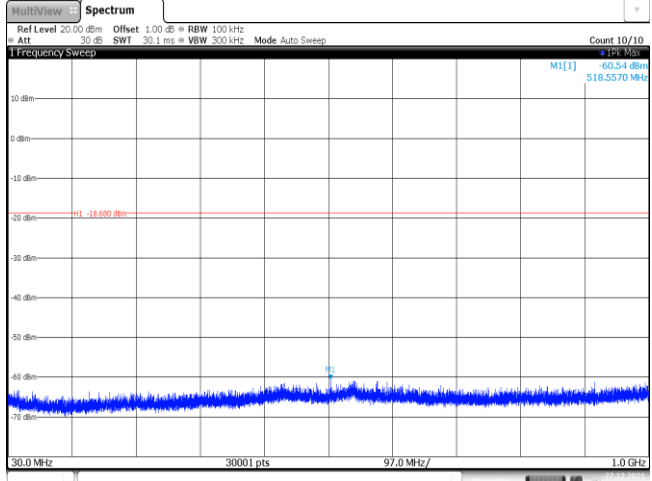
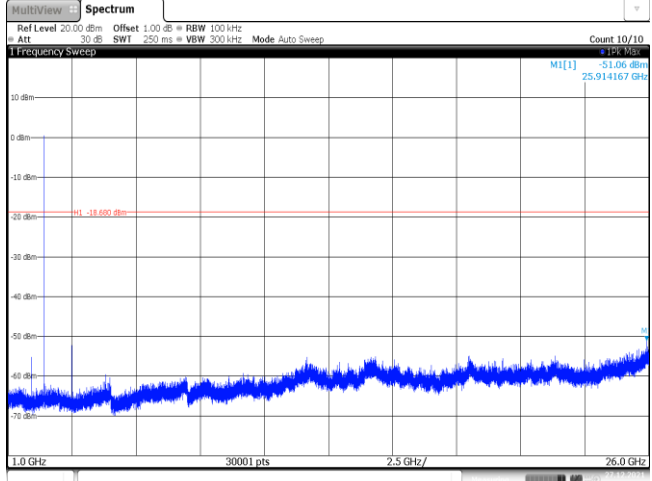
Appendix E: Duty cycle

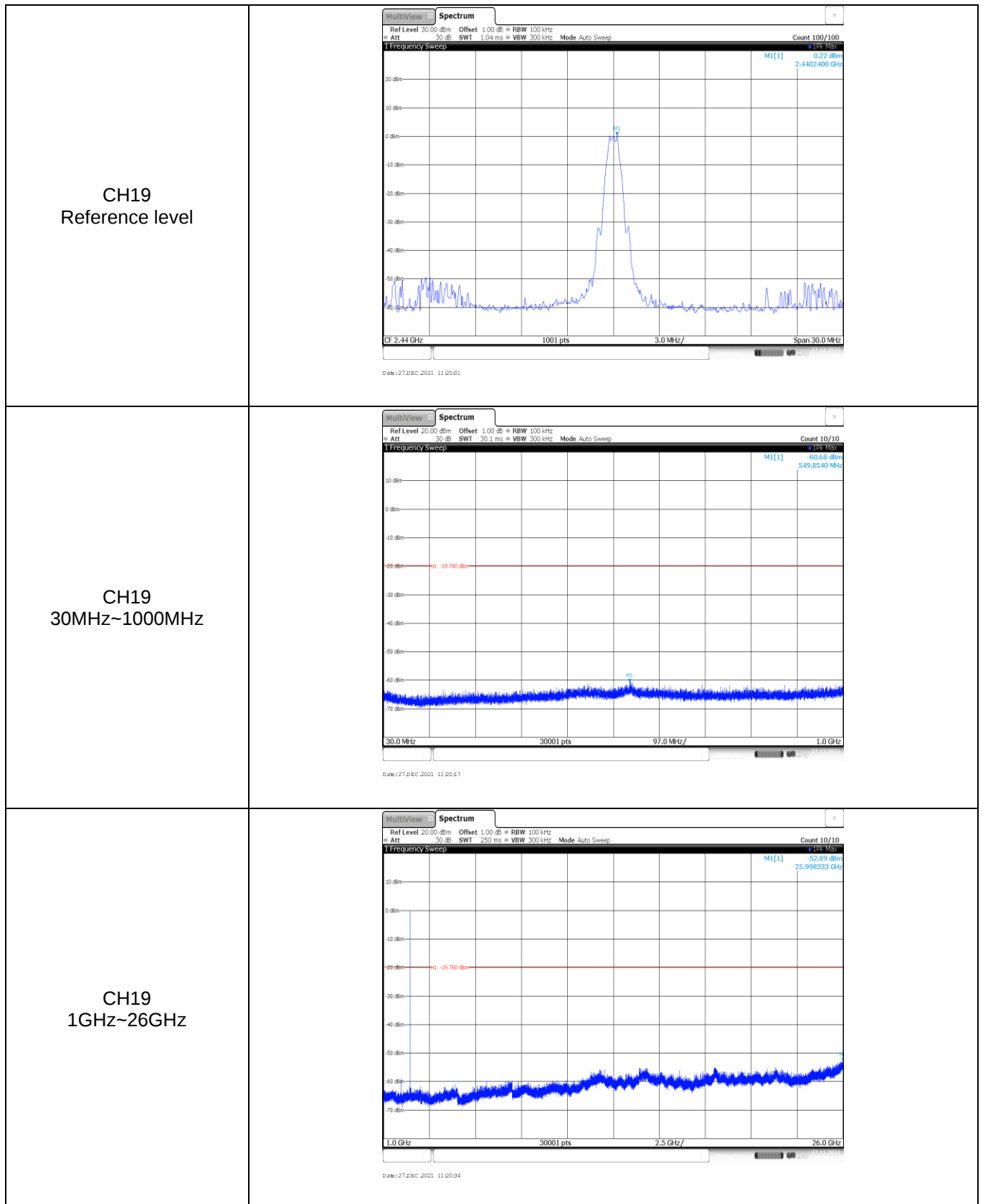


Appendix F: Band edge and Spurious Emissions (conducted)

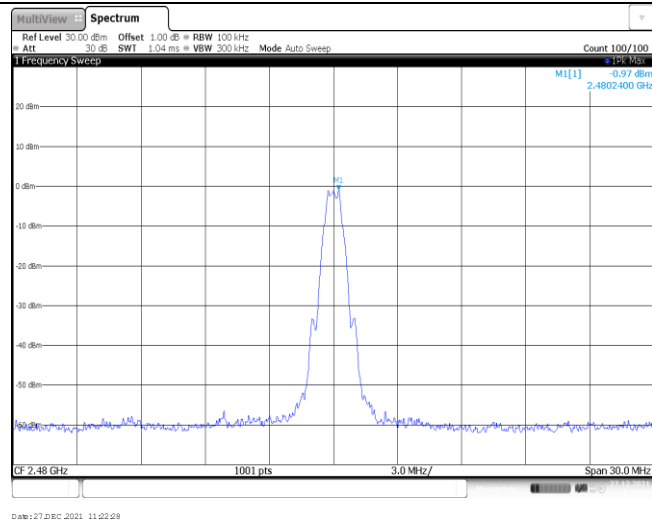
Test Item:	Band edge	Test Rate:	1Mbps																																										
CH00	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SW 1.05 ms VBW 300 kHz Mode Auto Sweep Count 300/300 Frequency Sweep 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz M1 1.08 dBm M1[1] 2.40200 GHz M2[1] -58.30 dBm M2[1] 2.400000 GHz 2 Marker Table <table><thead><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></thead><tbody><tr><td>M1</td><td>1</td><td></td><td>2.4022 GHz</td><td>1.08 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-58.30 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-71.03 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-74.94 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-58.35 dBm</td><td></td><td></td></tr></tbody></table>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4022 GHz	1.08 dBm			M2	1		2.4 GHz	-58.30 dBm			M3	1		2.39 GHz	-71.03 dBm			M4	1		2.31 GHz	-74.94 dBm			M5	1		2.399965 GHz	-58.35 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.4022 GHz	1.08 dBm																																									
M2	1		2.4 GHz	-58.30 dBm																																									
M3	1		2.39 GHz	-71.03 dBm																																									
M4	1		2.31 GHz	-74.94 dBm																																									
M5	1		2.399965 GHz	-58.35 dBm																																									
CH39	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SW 1.02 ms VBW 300 kHz Mode Auto Sweep Count 100/100 Frequency Sweep 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm 2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz M1 -1.33 dBm M1[1] 2.480253 GHz M2[1] -66.98 dBm M2[1] 2.483500 GHz 2 Marker Table <table><thead><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></thead><tbody><tr><td>M1</td><td>1</td><td></td><td>2.480253 GHz</td><td>-1.33 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-66.98 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-72.75 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.484512 GHz</td><td>-67.00 dBm</td><td></td><td></td></tr></tbody></table>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.480253 GHz	-1.33 dBm			M2	1		2.4835 GHz	-66.98 dBm			M3	1		2.5 GHz	-72.75 dBm			M4	1		2.484512 GHz	-67.00 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.480253 GHz	-1.33 dBm																																									
M2	1		2.4835 GHz	-66.98 dBm																																									
M3	1		2.5 GHz	-72.75 dBm																																									
M4	1		2.484512 GHz	-67.00 dBm																																									



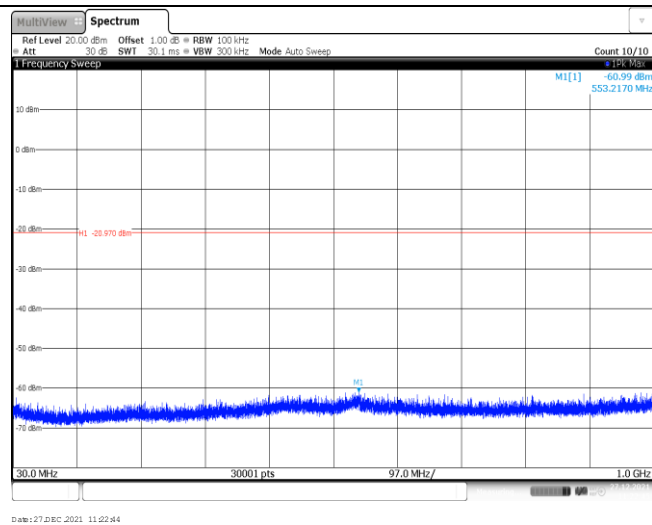
Test Item:	SE	Test Rate:	1Mbps
CH00 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 1.32 dBm 2.4022400 GHz 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27 DEC 2021 11:17:30		
CH00 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -60.54 dBm 518.5570 MHz 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 27 DEC 2021 11:17:46		
CH00 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -51.06 dBm 25.914167 GHz 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 27 DEC 2021 11:18:04		



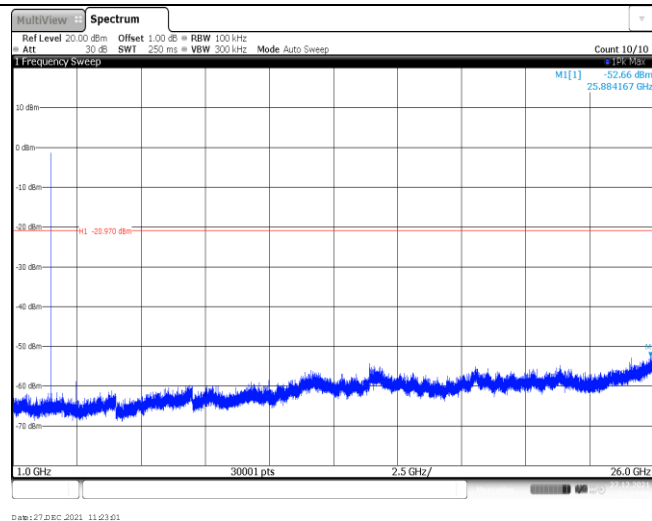
CH39
Reference level

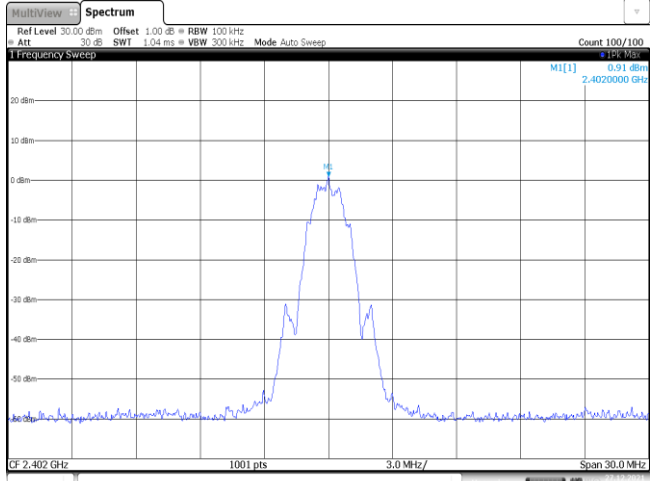
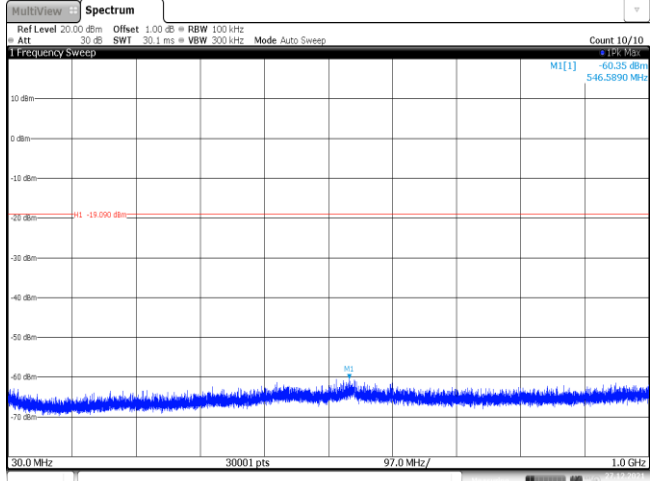
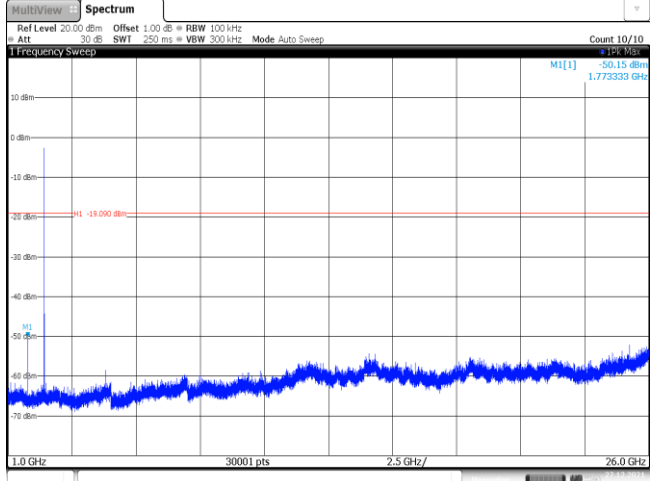


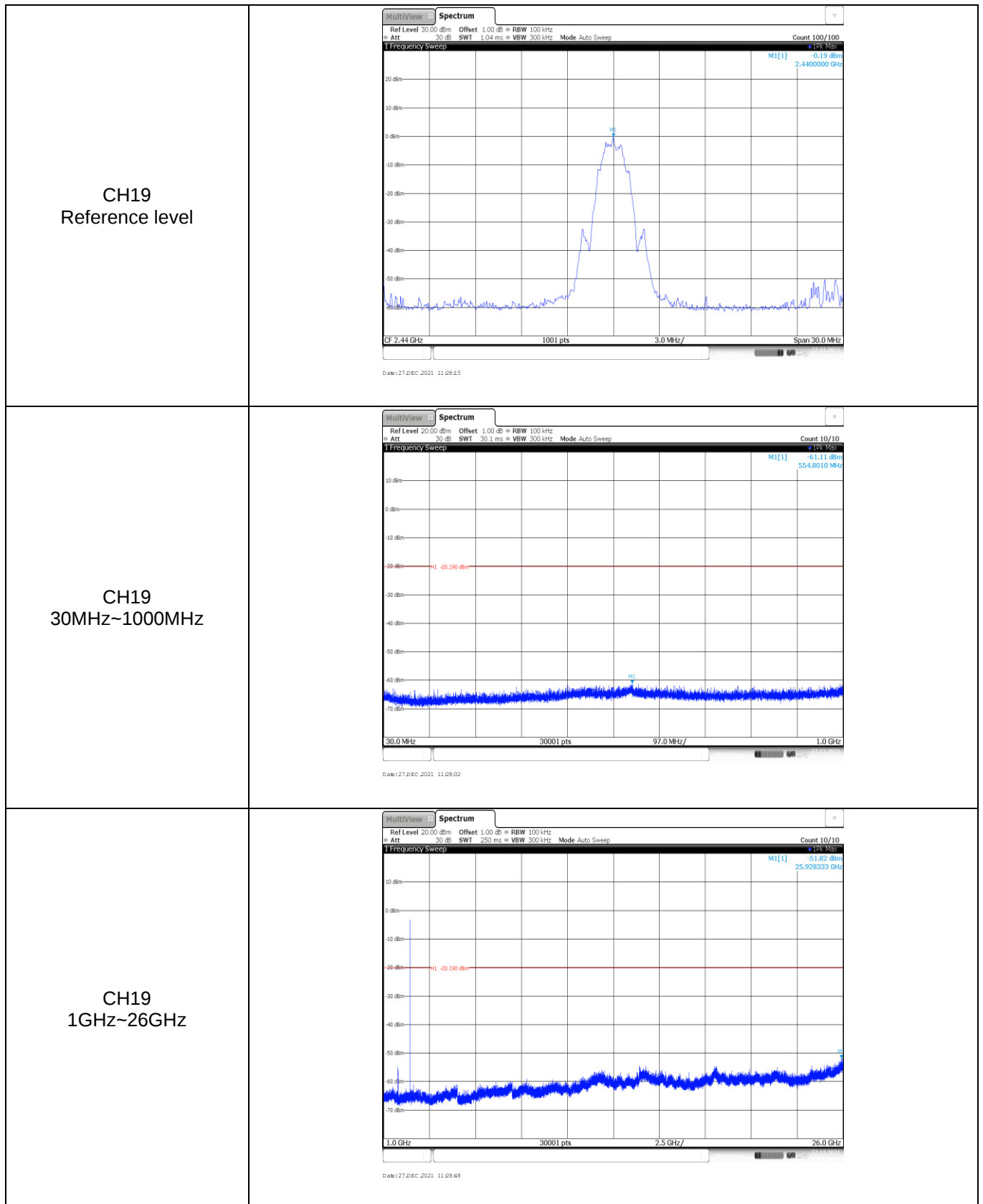
CH39
30MHz~1000MHz

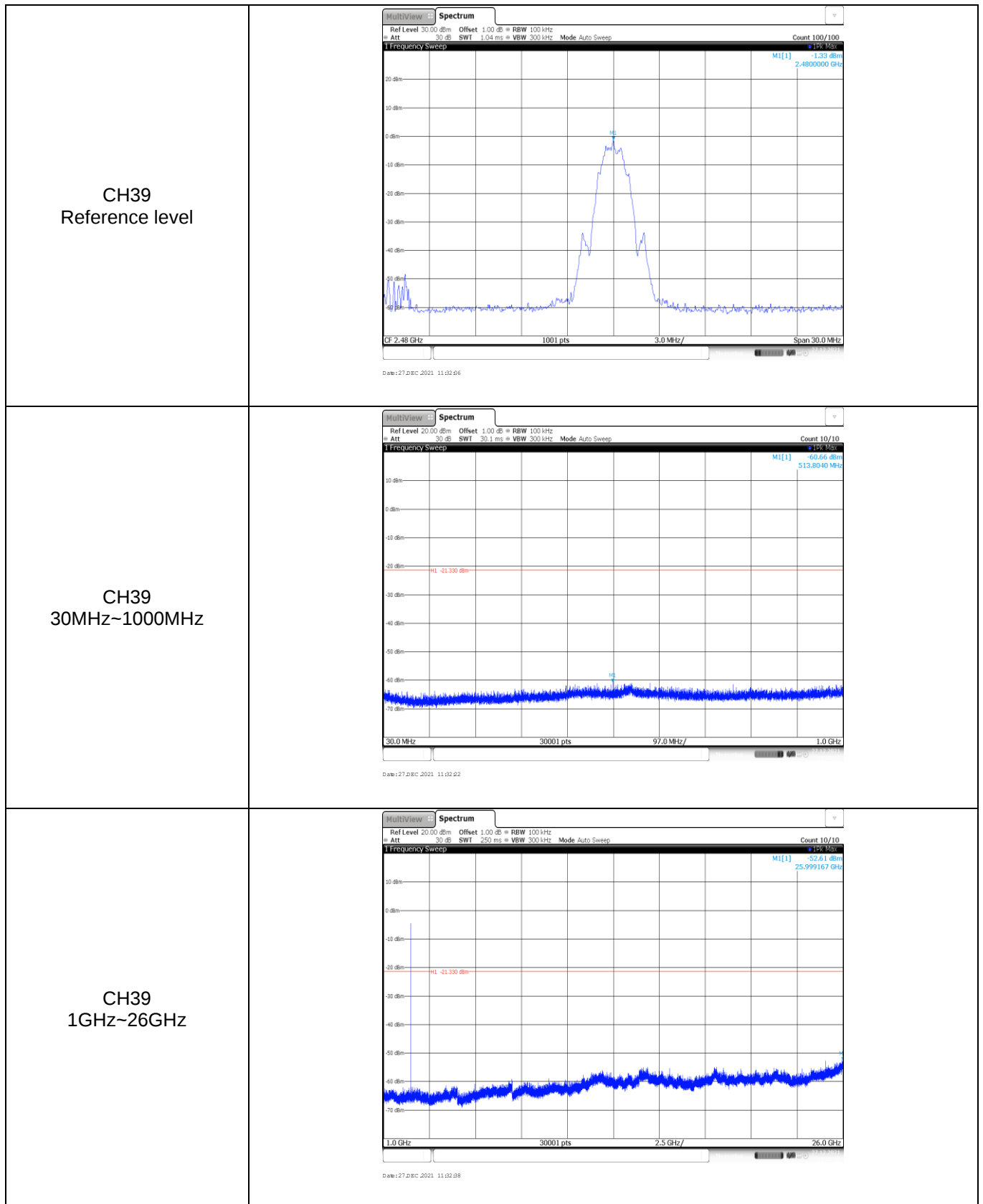


CH39
1GHz~26GHz



Test Item:	SE	Test Rate:	2Mbps
CH00 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 0.91 dBm 2.402000 GHz 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27 DEC 2021 11:25:42		
CH00 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -60.35 dBm 546.5890 MHz 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 27 DEC 2021 11:25:59		
CH00 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -50.15 dBm 1.775333 GHz 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 27 DEC 2021 11:26:45		





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