

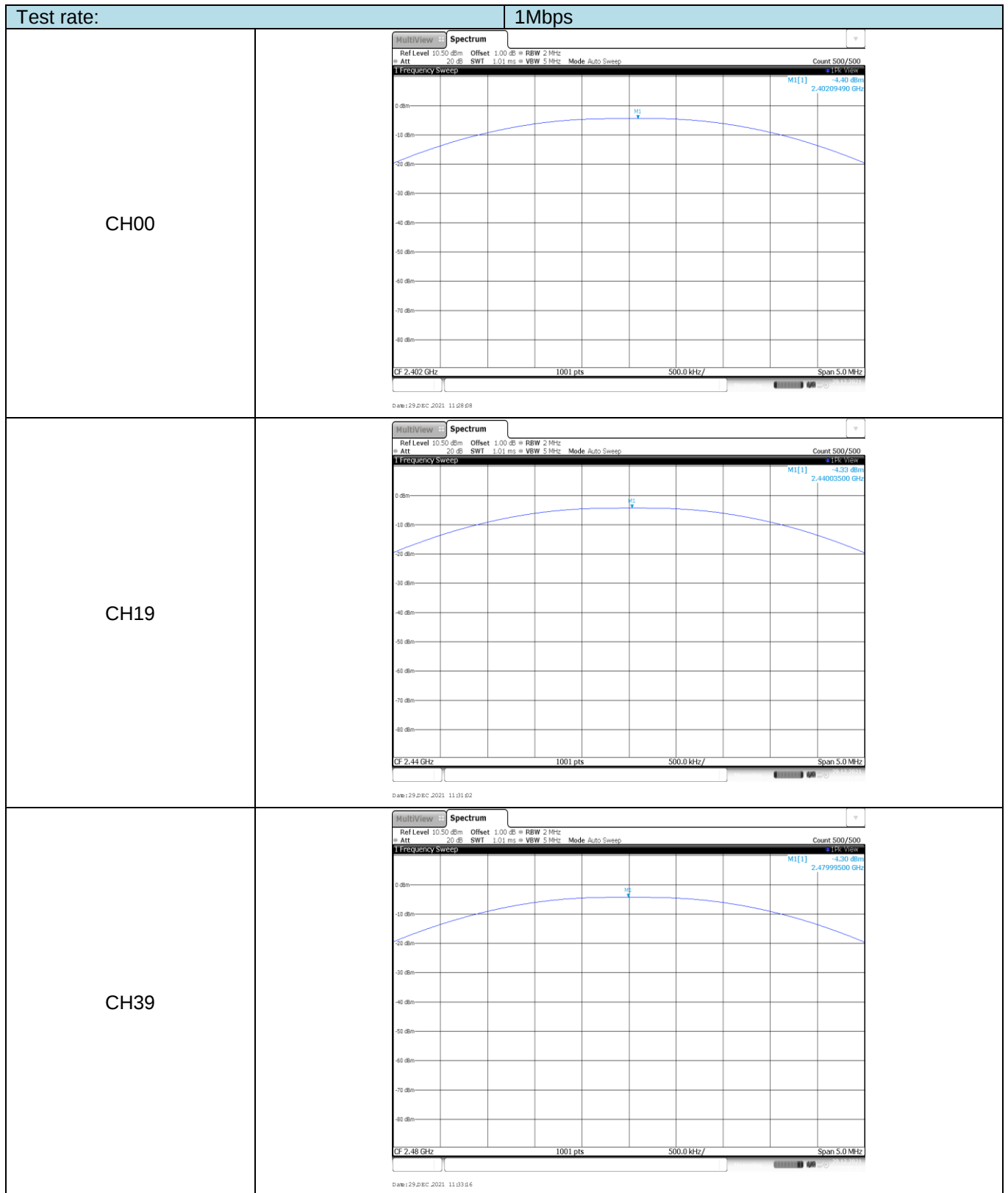
APPENDIX REPORT

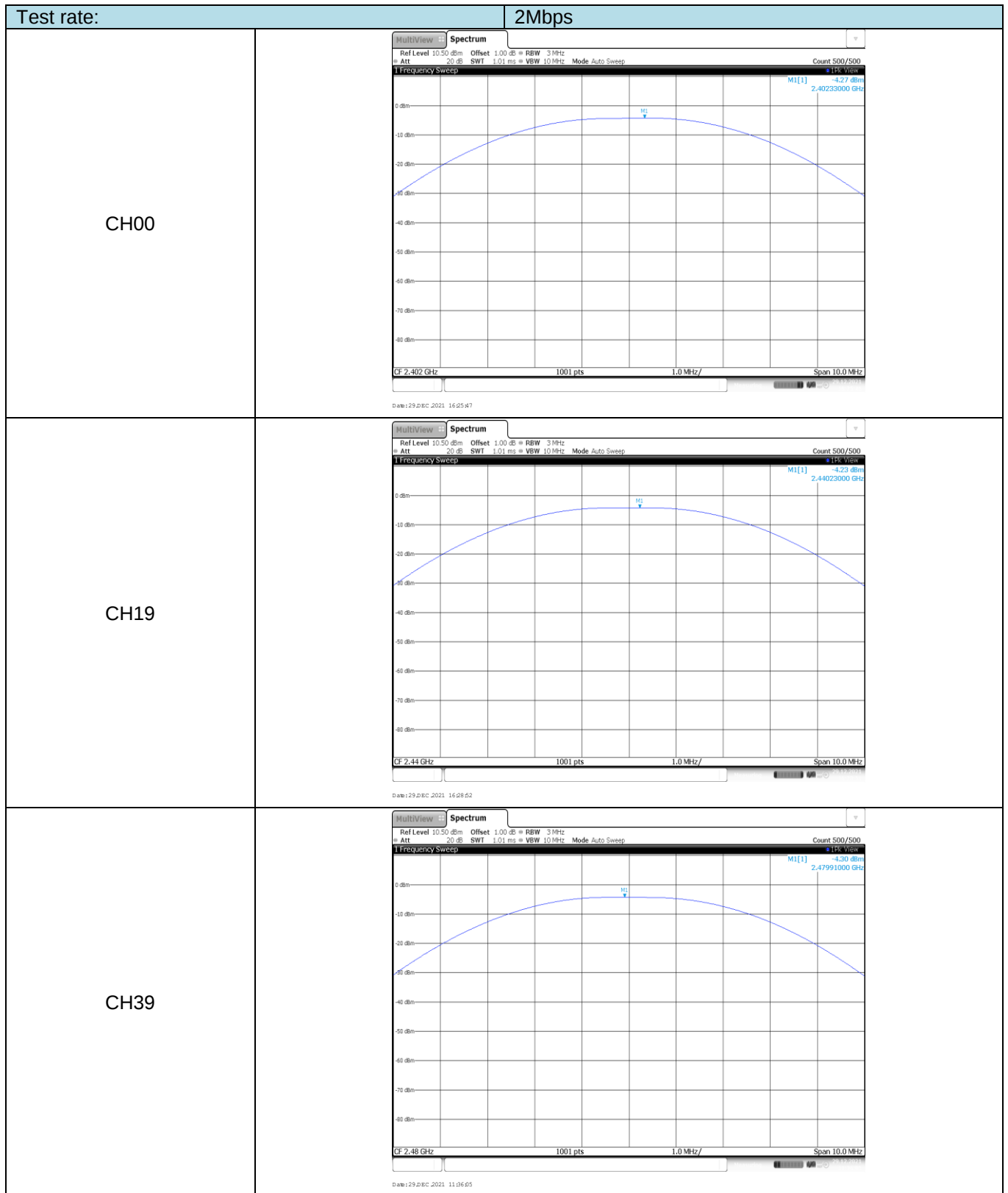
Project No.	SHT2107112207EW	Radio Specification	Bluetooth BLE
Model No.	Screeneo U4		
Start test date	2021-12-29	Finish date	2021-12-29
Temperature	22.9℃	Humidity	38%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zheo

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

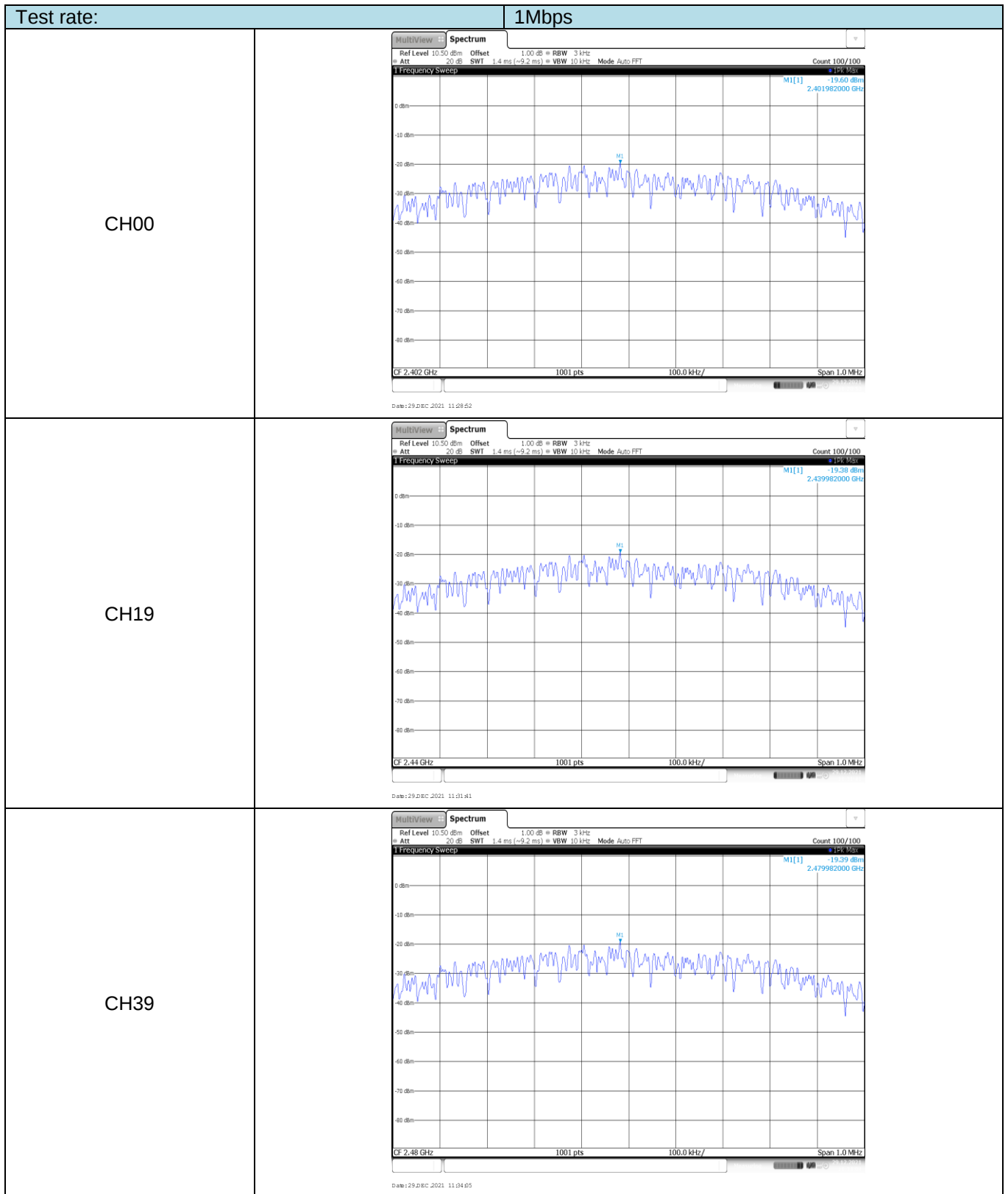
Test rate	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
1Mbps	00	-4.40	-4.48	≤ 30.00	Pass
	19	-4.33	-4.42		
	39	-4.30	-4.39		
2Mbps	00	-4.27	-4.32	≤ 30.00	Pass
	19	-4.23	-4.31		
	39	-4.30	-4.37		

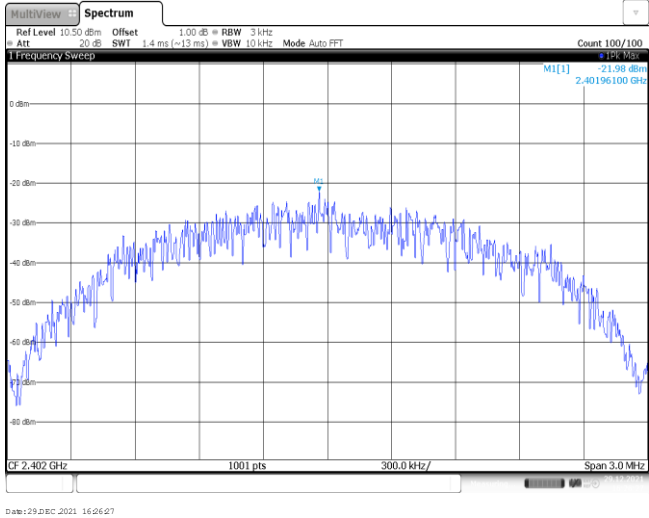
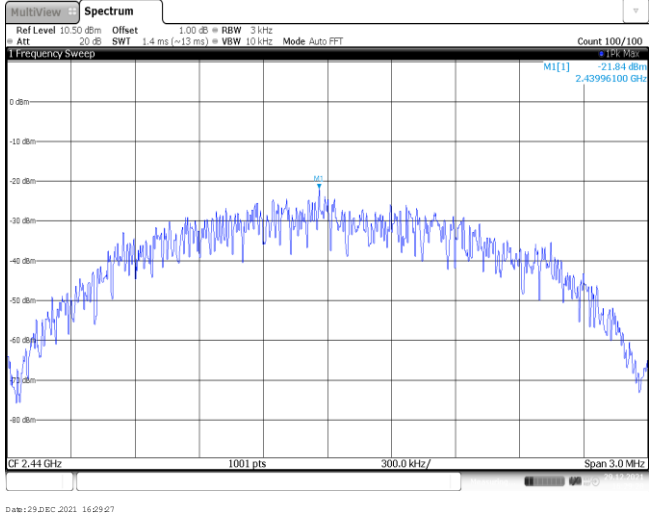
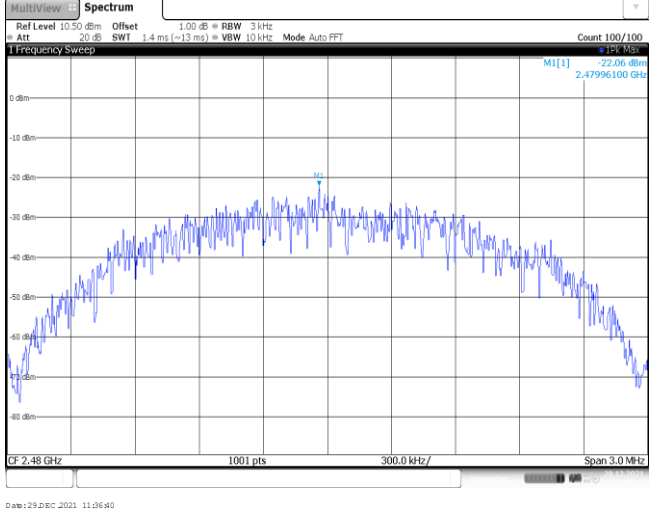




Appendix B: Power Spectral Density

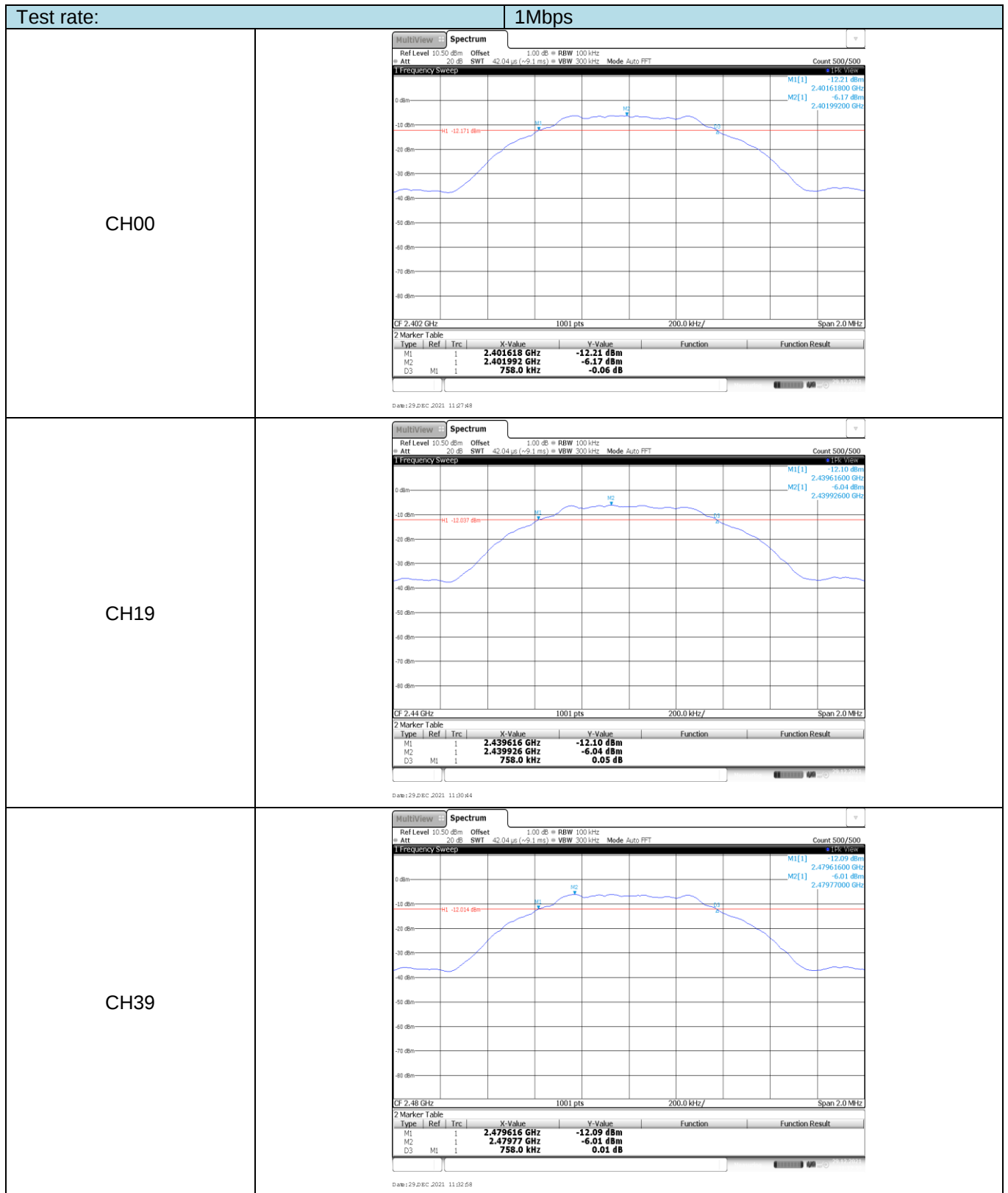
Test rate	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
1Mbps	00	-19.60	≤8.00	Pass
	19	-19.38		
	39	-19.39		
2Mbps	00	-21.98	≤8.00	Pass
	19	-21.84		
	39	-22.06		

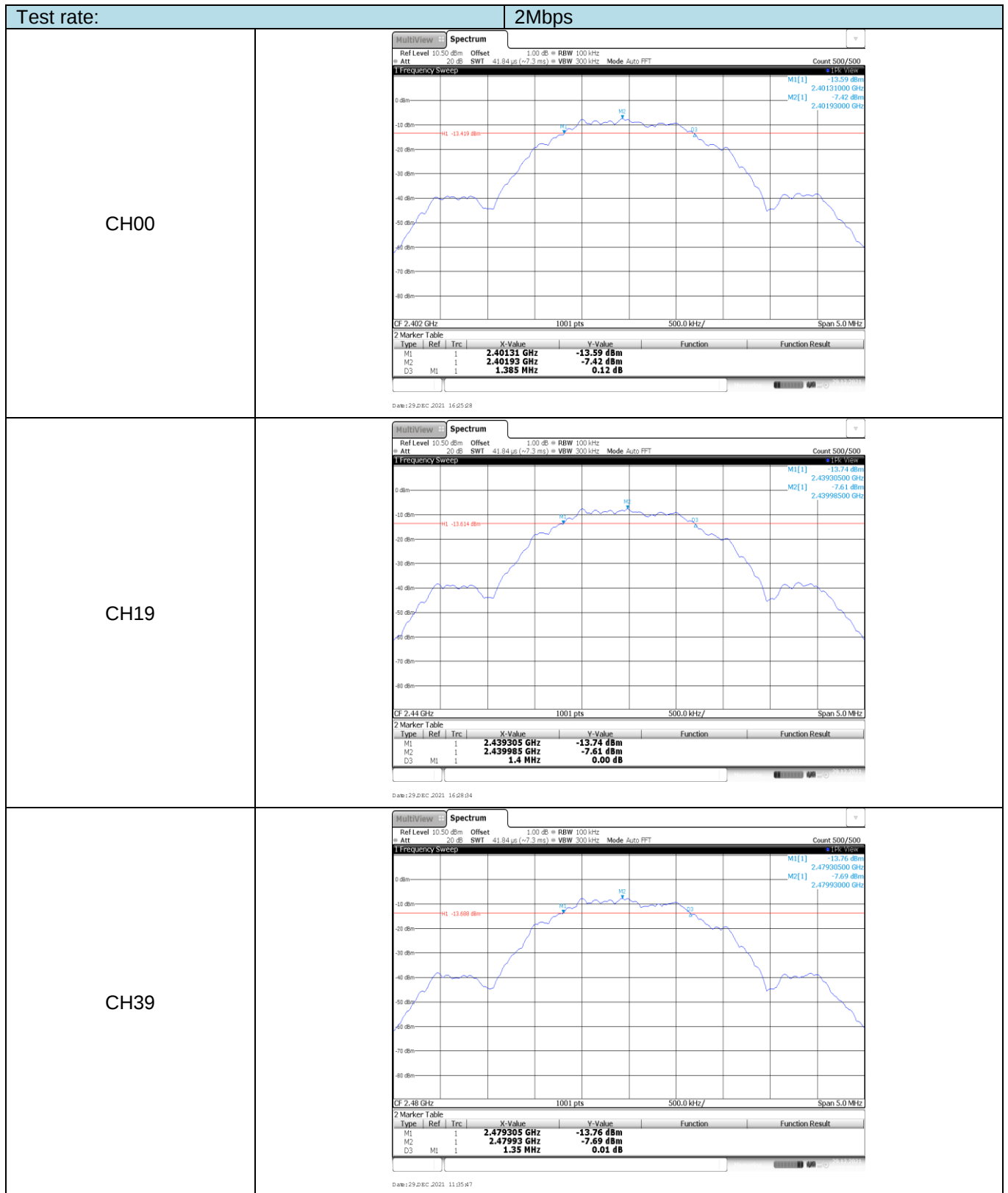


Test rate:		2Mbps
CH00		
CH19		
CH39		

Appendix C: 6dB bandwidth

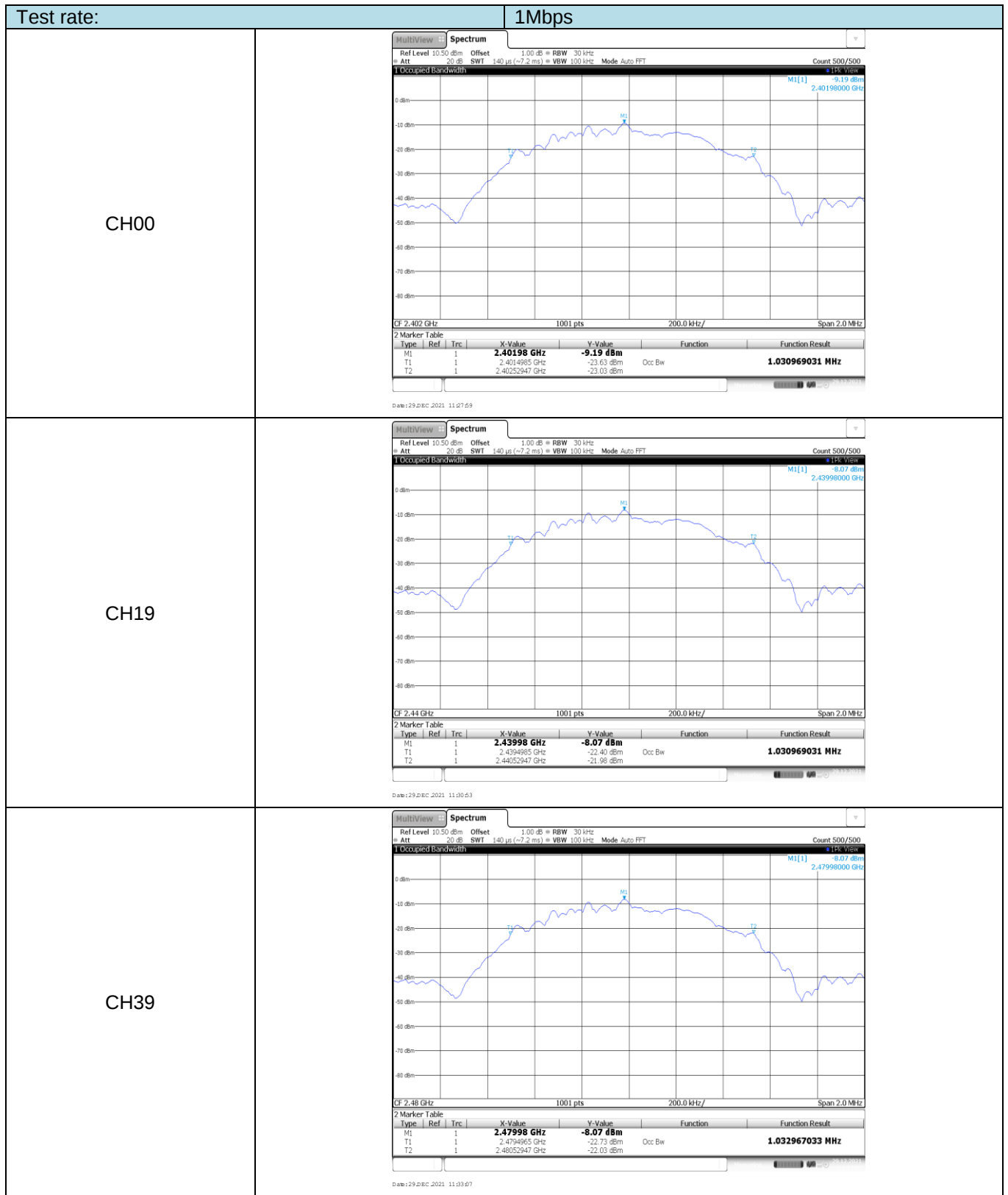
Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
1Mbps	00	758.00	≥500	Pass
	19	758.00		
	39	758.00		
2Mbps	00	1385.00	≥500	Pass
	19	1400.00		
	39	1350.00		

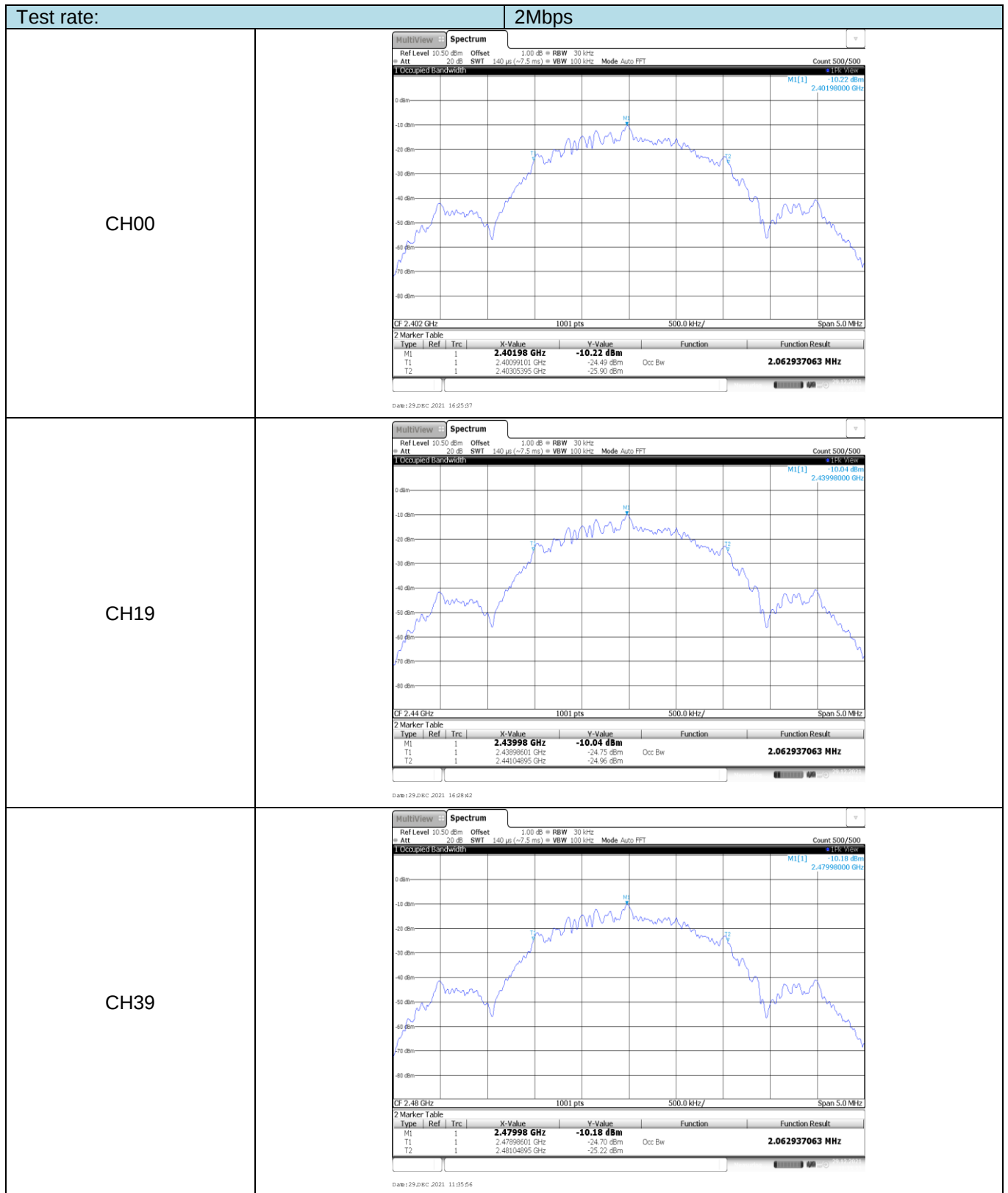




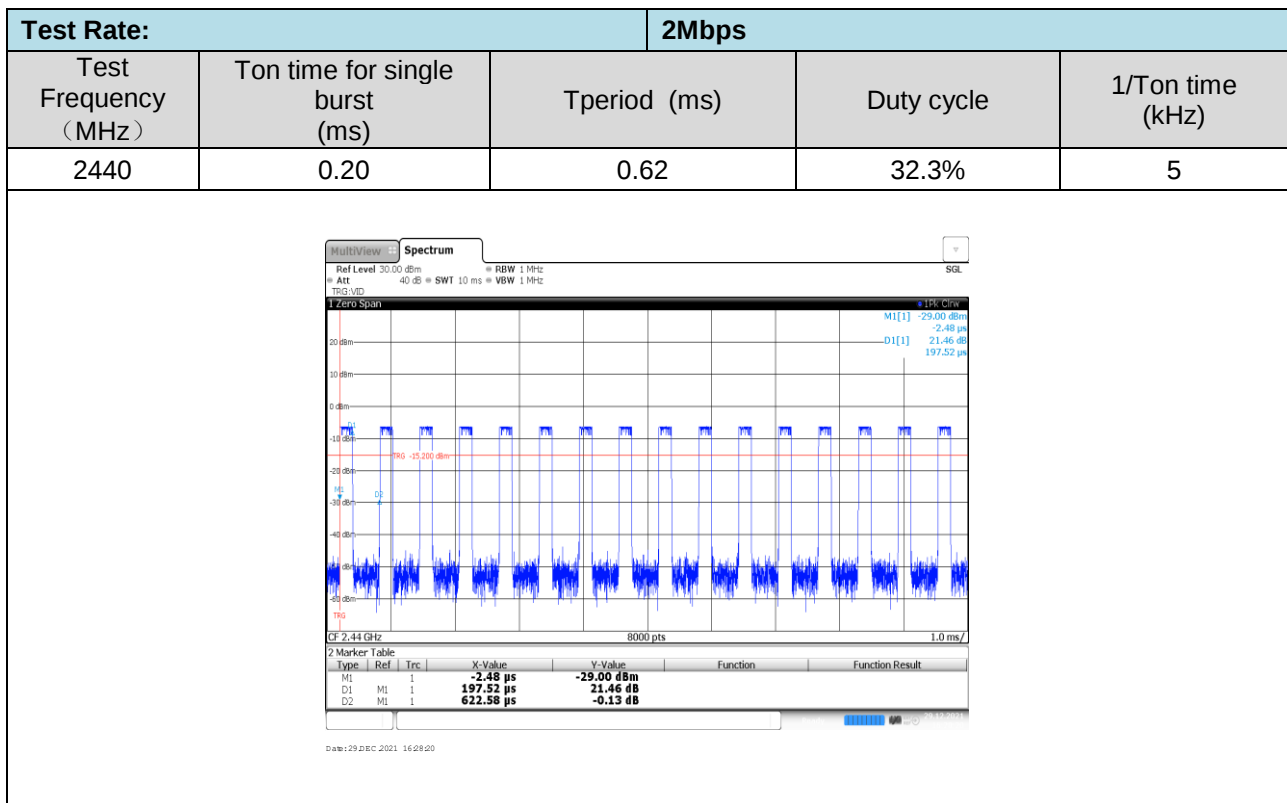
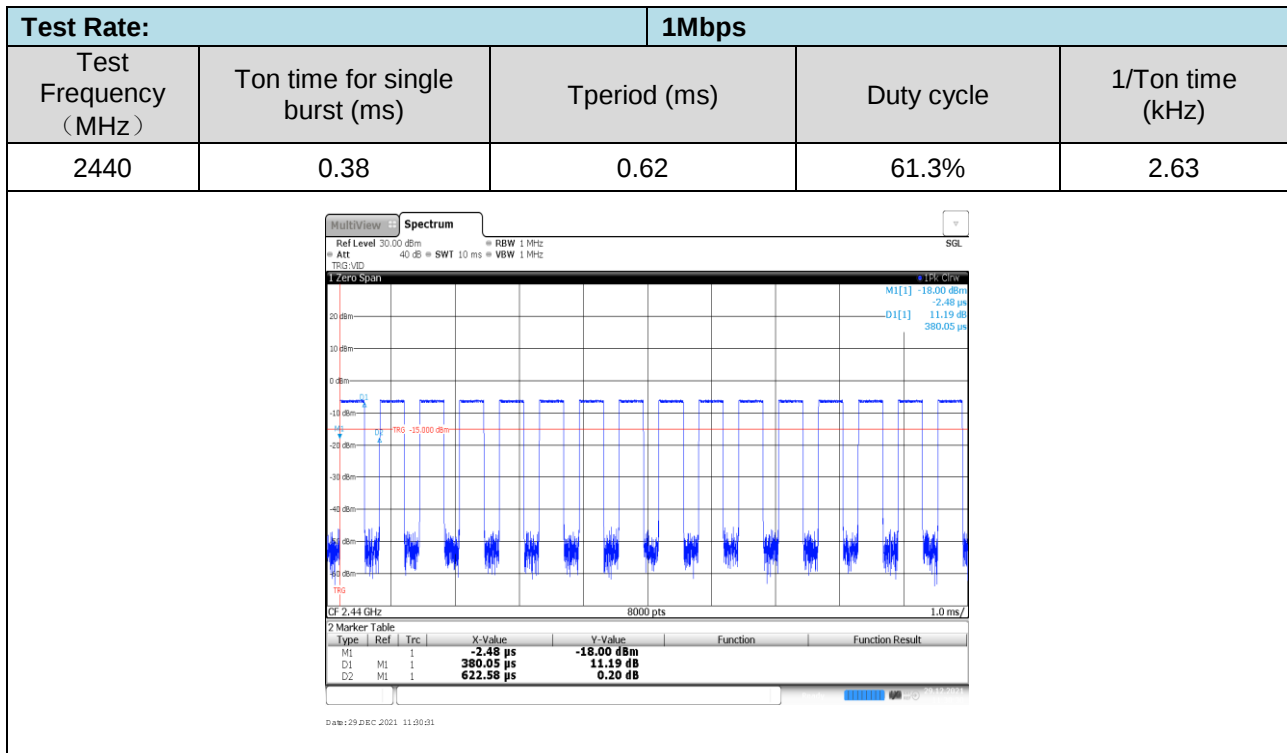
Appendix D: 99% Occupied Bandwidth

Test rate	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
1Mbps	00	1.03	-	Pass
	19	1.03		
	39	1.03		
2Mbps	00	2.06	-	Pass
	19	2.06		
	39	2.06		



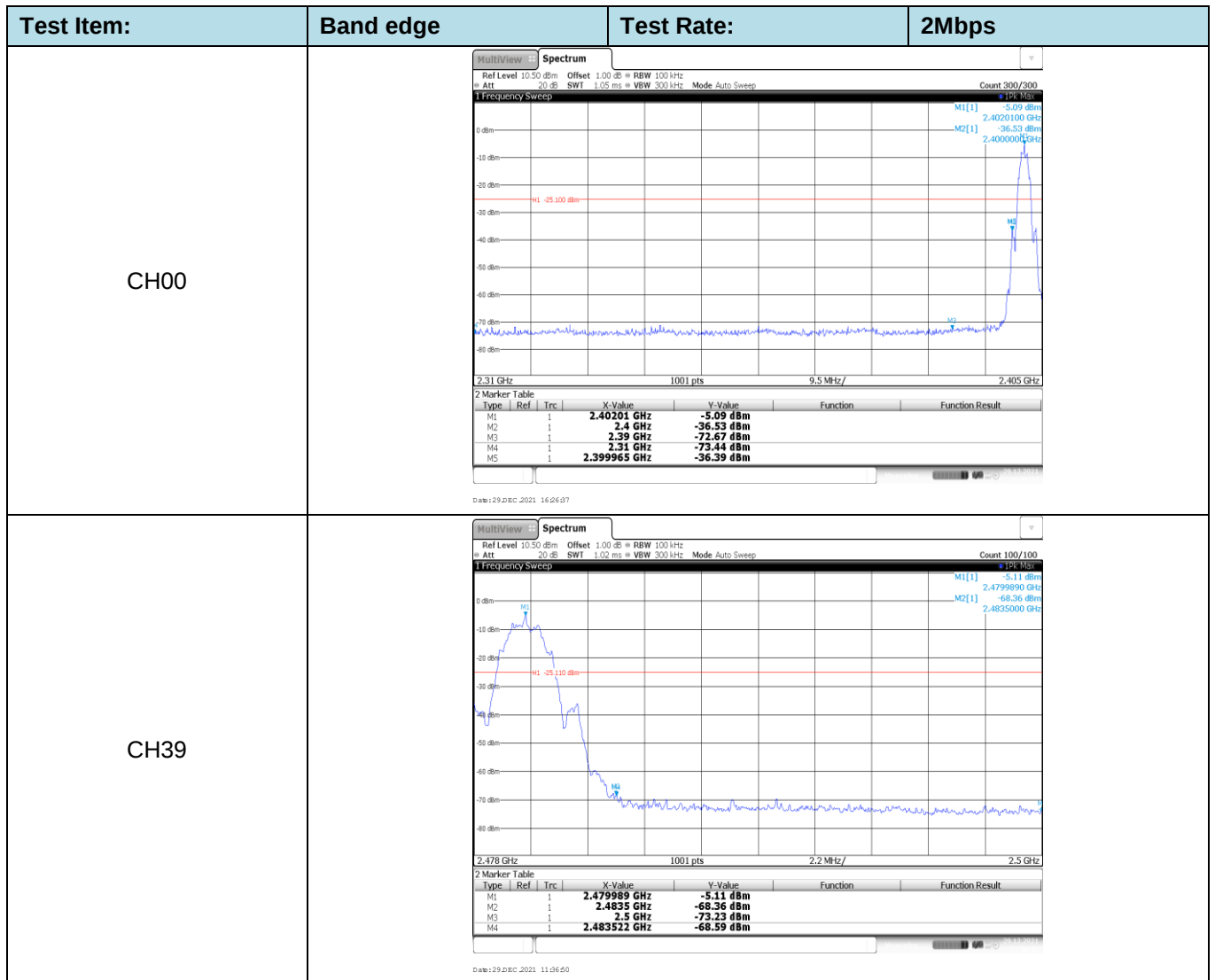


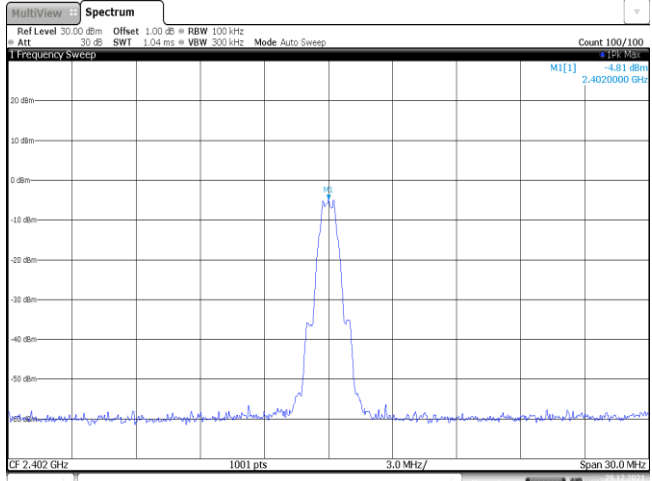
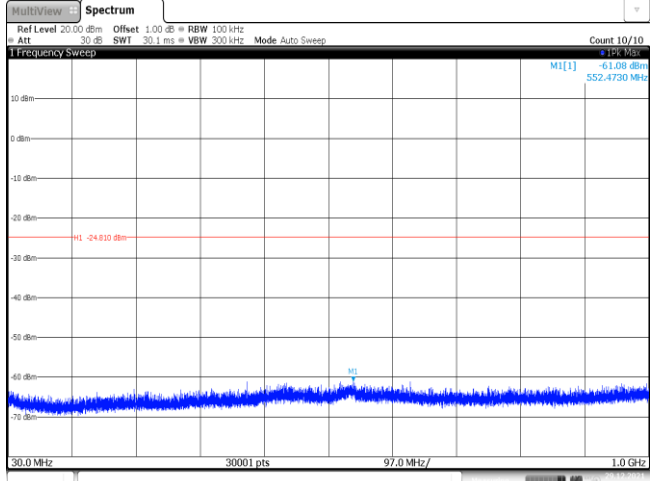
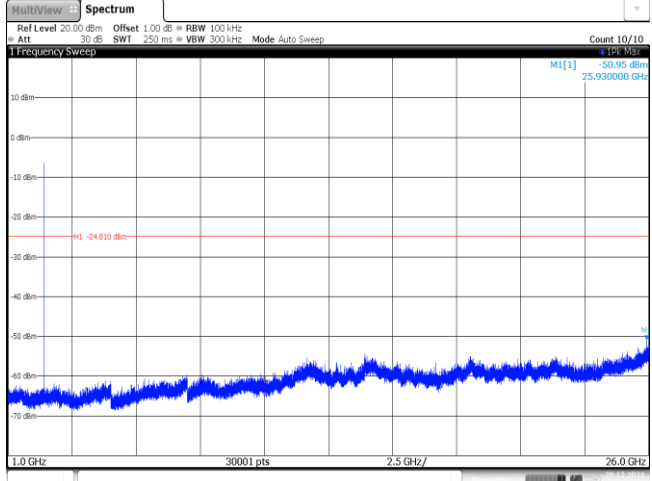
Appendix E: Duty cycle

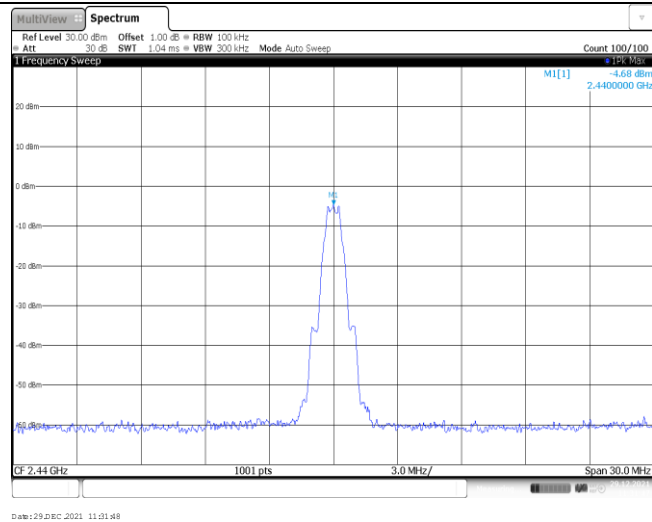
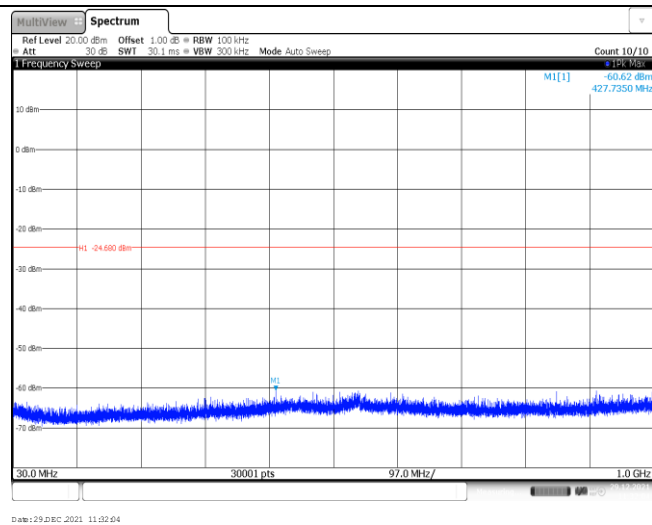
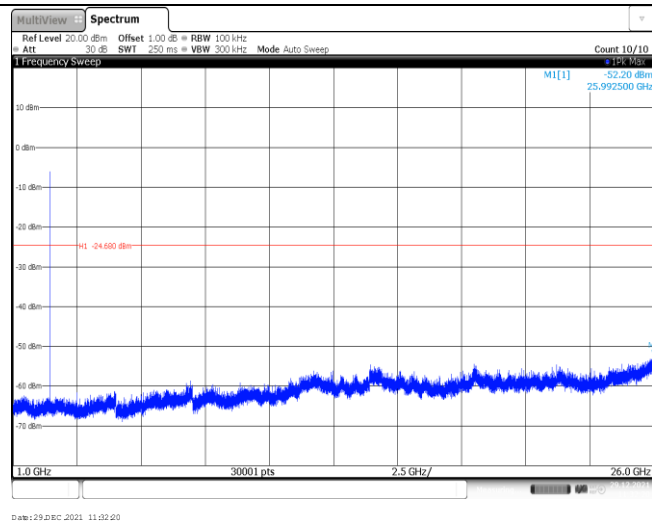


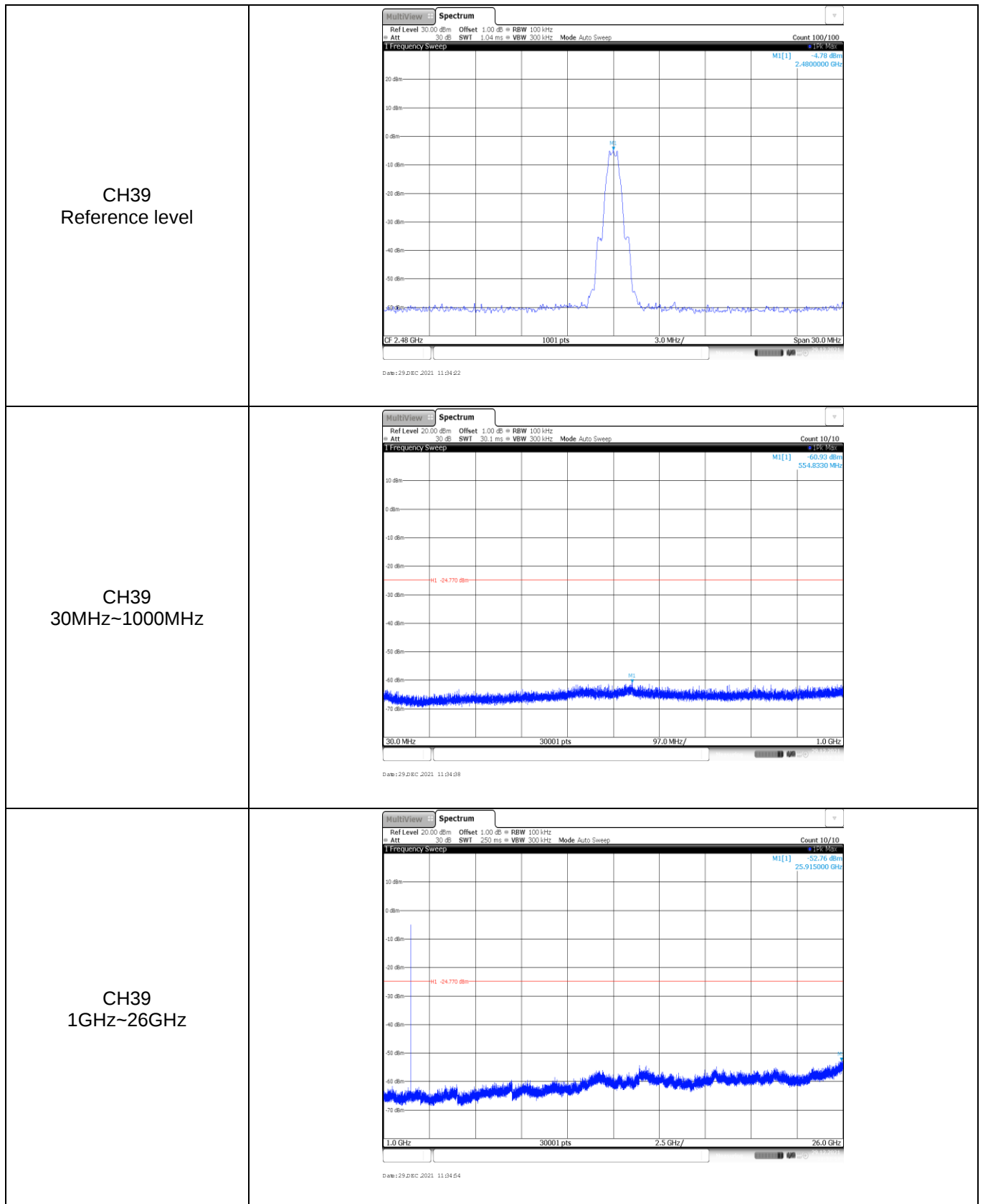
Appendix F: Band edge and Spurious Emissions (conducted)

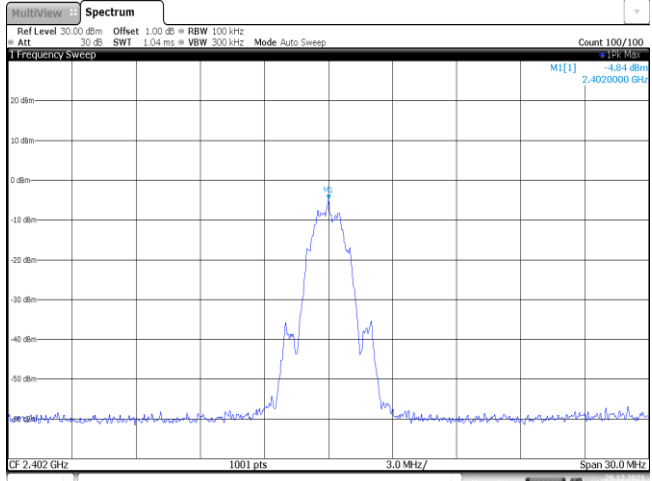
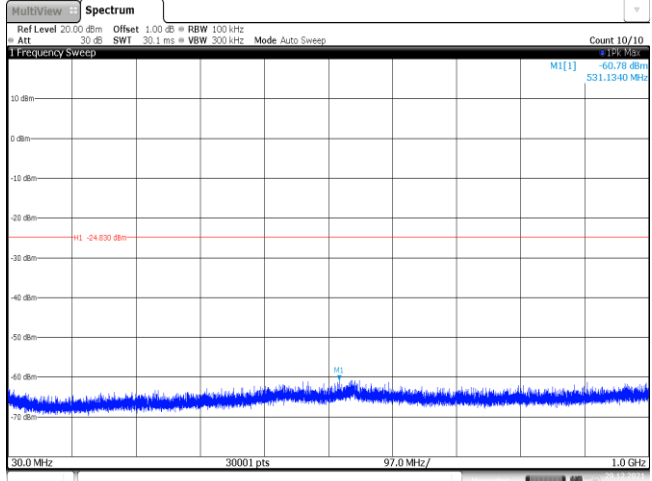
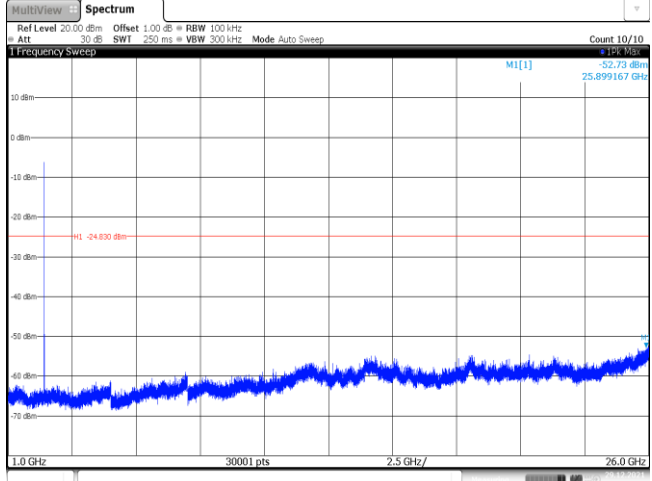
Test Item:	Band edge	Test Rate:	1Mbps																																										
CH00	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SW 1.05 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm M1 -5.13 dBm 2.4020100 GHz M2 -65.59 dBm 2.4000000 GHz 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz 2 Marker Table <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>2.40201 GHz</td><td>-5.13 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-65.59 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-72.41 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-74.45 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-64.70 dBm</td><td></td><td></td></tr></table> Date: 29/DEC/2021 11:29:03			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	-5.13 dBm			M2	1		2.4 GHz	-65.59 dBm			M3	1		2.39 GHz	-72.41 dBm			M4	1		2.31 GHz	-74.45 dBm			M5	1		2.399965 GHz	-64.70 dBm		
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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 1 Frequency Sweep 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm M1 -5.02 dBm 2.4799890 GHz M2 -71.25 dBm 2.4835000 GHz 2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz 2 Marker Table <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>2.479989 GHz</td><td>-5.02 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-71.25 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-73.96 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.485018 GHz</td><td>-69.11 dBm</td><td></td><td></td></tr></table> Date: 29/DEC/2021 11:34:15			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479989 GHz	-5.02 dBm			M2	1		2.4835 GHz	-71.25 dBm			M3	1		2.5 GHz	-73.96 dBm			M4	1		2.485018 GHz	-69.11 dBm									
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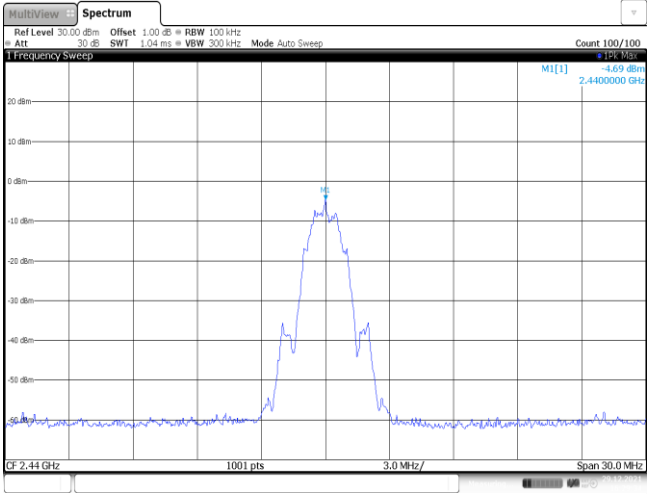
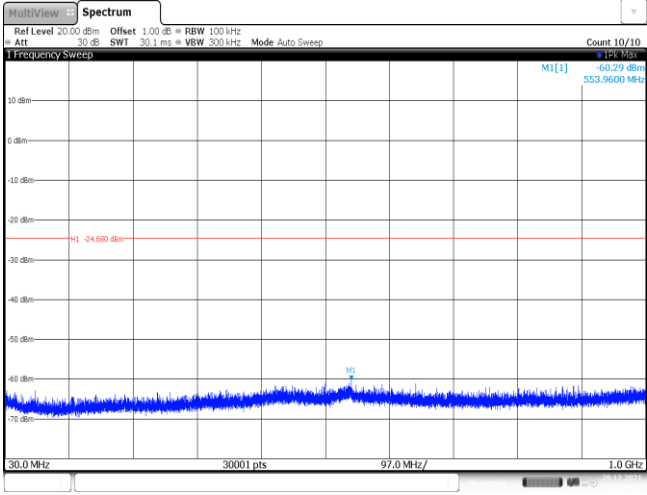
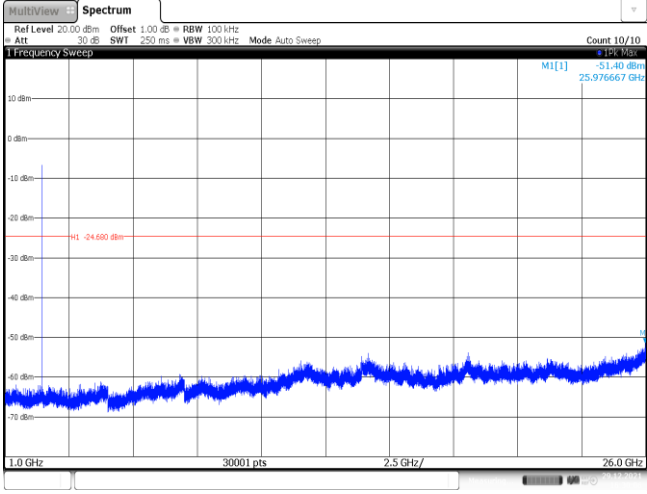


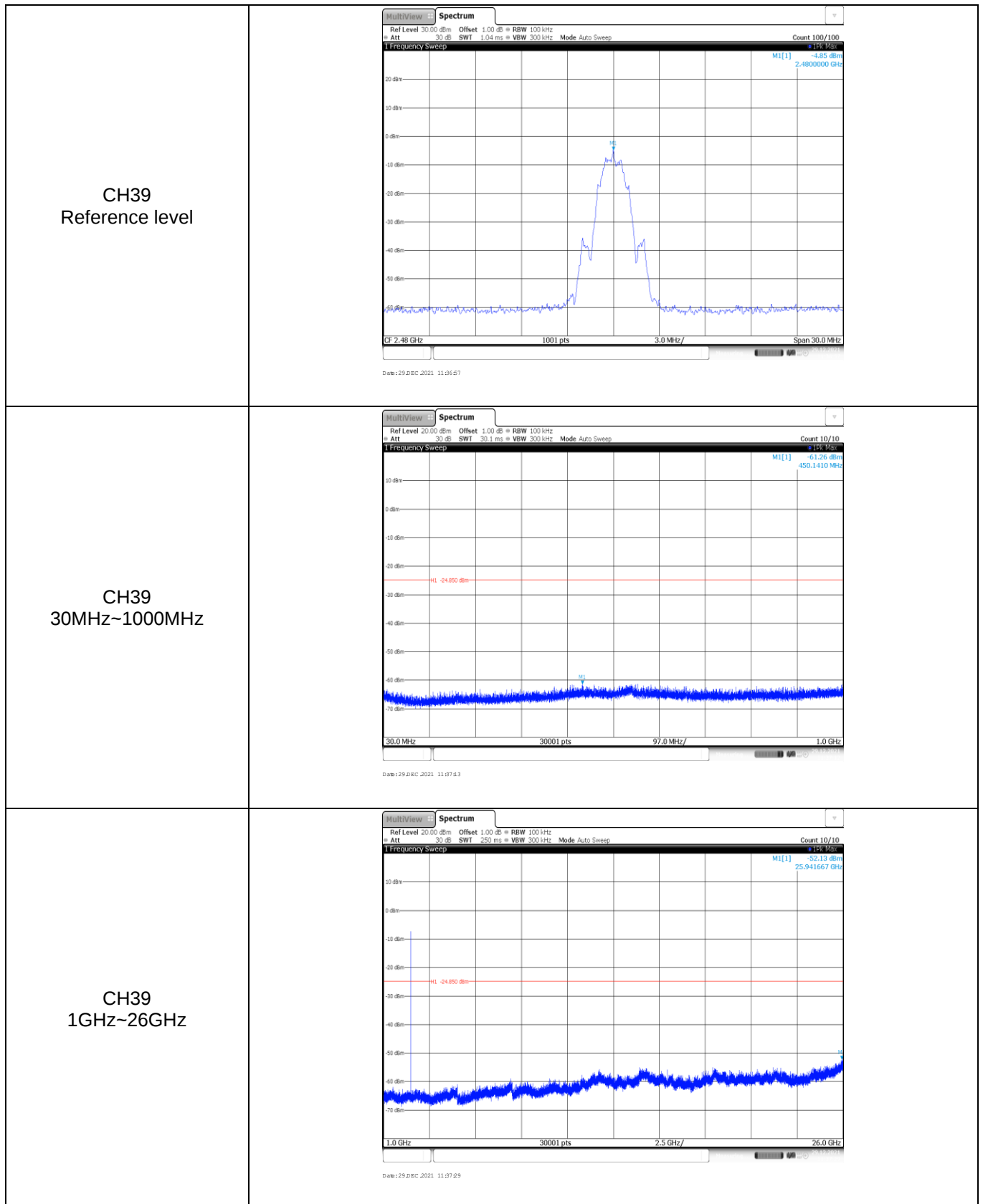
Test Item:	SE	Test Rate:	1Mbps
CH00 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] -48.1 dBm 2.4020000 GHz 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 29 DEC 2021 11:29:22		
CH00 30MHz~1000MHz	 Ref Level 20.00 dBm 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] -61.08 dBm 552.4730 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 29 DEC 2021 11:29:27		
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] -50.95 dBm 25.930000 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 29 DEC 2021 11:29:44		

CH19
Reference levelCH19
30MHz~1000MHzCH19
1GHz~26GHz



Test Item:	SE	Test Rate:	2Mbps
CH00 Reference level	 The spectrum plot shows a single sharp peak at 2.402 GHz. The y-axis represents power in dBm, ranging from -60 to 20. The x-axis represents frequency in MHz, ranging from 2.400 to 2.404. The peak is labeled M1[1] with a value of -48.4 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 30.00 dBm, Offset 1.00 dB, RBW 100 kHz, SWI 1.04 ms, VBW 300 kHz, Mode Auto Sweep. The count is 100/100.		
CH00 30MHz~1000MHz	 The spectrum plot shows a noisy baseline across the 30 MHz to 1000 MHz range. The y-axis represents power in dBm, ranging from -60 to 20. The x-axis represents frequency in MHz, ranging from 30.0 to 1000.0. A red horizontal line is drawn at -24.830 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, SWI 30.1 ms, VBW 300 kHz, Mode Auto Sweep. The count is 10/10.		
CH00 1GHz~26GHz	 The spectrum plot shows a noisy baseline across the 1 GHz to 26 GHz range. The y-axis represents power in dBm, ranging from -60 to 20. The x-axis represents frequency in GHz, ranging from 1.0 to 26.0. A red horizontal line is drawn at -24.830 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, SWI 250 ms, VBW 300 kHz, Mode Auto Sweep. The count is 10/10.		

CH19 Reference level	 The spectrum plot shows a single sharp peak at 2.44 GHz. The y-axis represents power in dBm, ranging from -50 to 20. The x-axis represents frequency in MHz, with a span of 30.0 MHz. The peak is labeled with a level of -4.69 dBm. The plot is titled 'Spectrum' and includes various parameters like Ref Level, Offset, and Mode.
CH19 30MHz~1000MHz	 The spectrum plot shows a noisy baseline across the frequency range from 30 MHz to 1000 MHz. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in MHz, with a span of 97.0 MHz. The plot is titled 'Spectrum' and includes various parameters like Ref Level, Offset, and Mode.
CH19 1GHz~26GHz	 The spectrum plot shows a noisy baseline across the frequency range from 1 GHz to 26 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in GHz, with a span of 26.0 GHz. The plot is titled 'Spectrum' and includes various parameters like Ref Level, Offset, and Mode.



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