

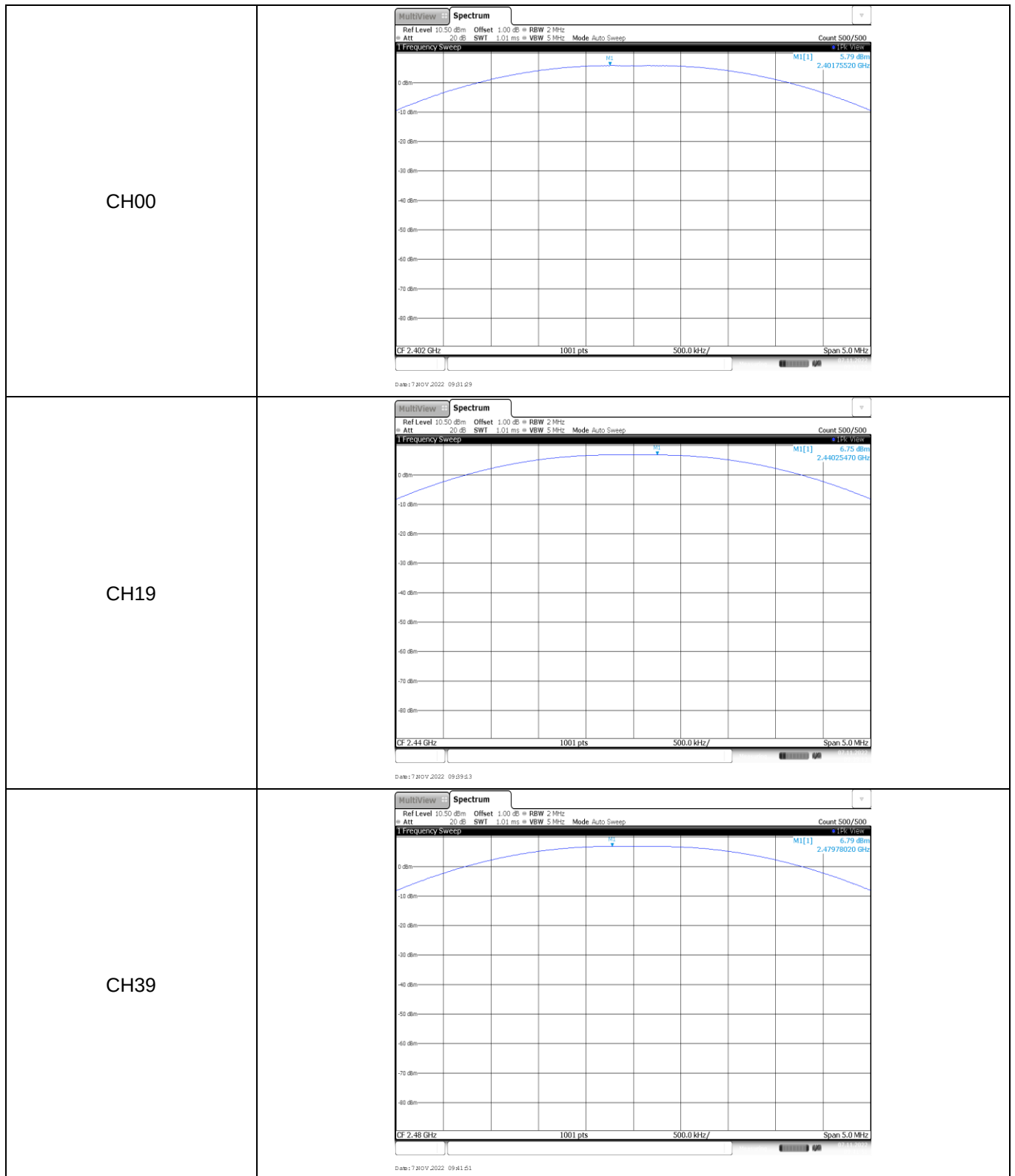
APPENDIX REPORT

Project No.	SHT2204124301EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT22041243002	Model No.	HX320
Start test date	2022-11-07	Finish date	2022-11-07
Temperature	24.8℃	Humidity	36%
Test Engineer	Xiaoxiao Li	Auditor	Xiaodong Zhuo

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

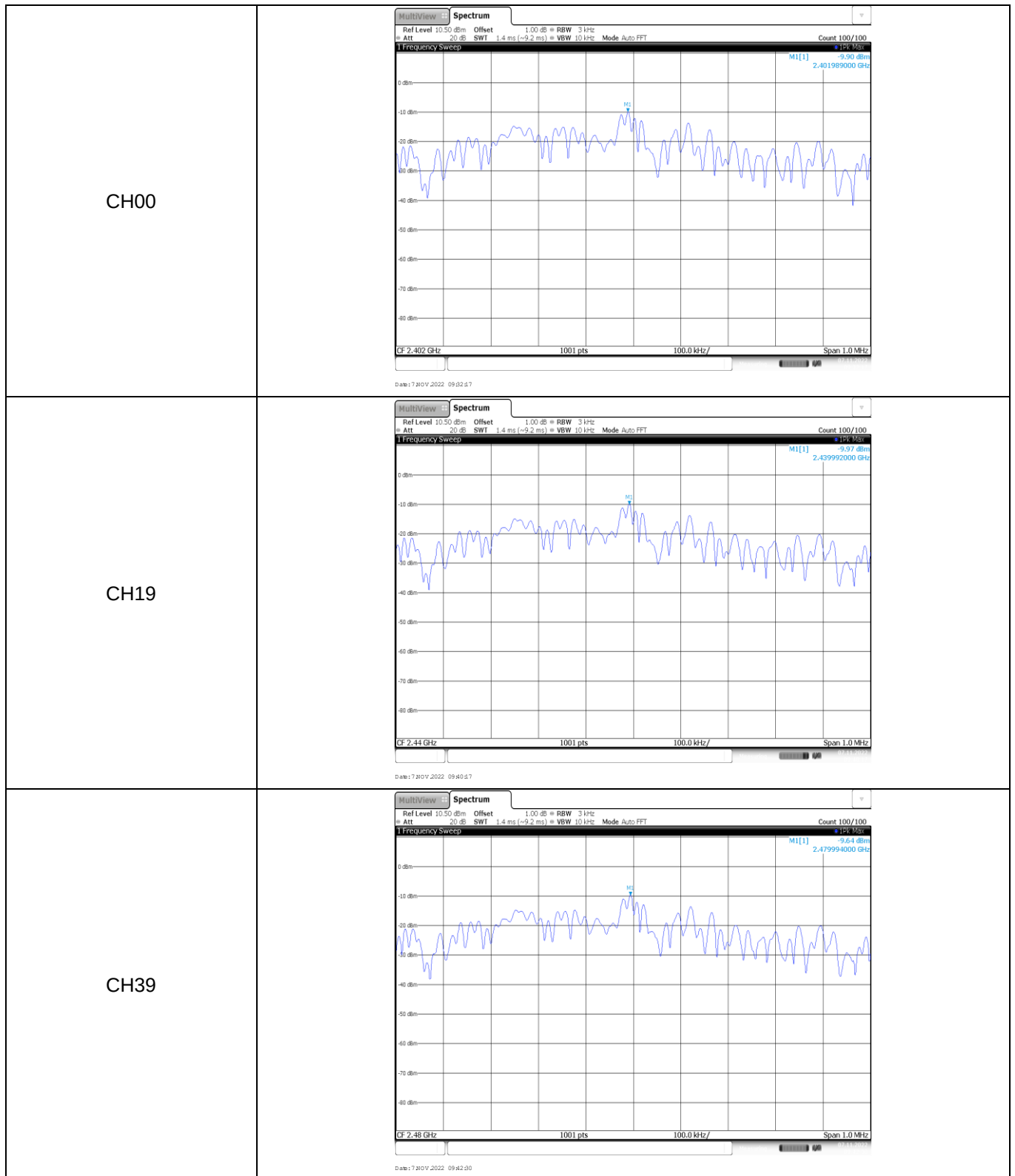
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	5.79	5.51	≤ 30.00	Pass
	19	6.75	6.58		
	39	6.79	6.73		



Appendix B: Power Spectral Density

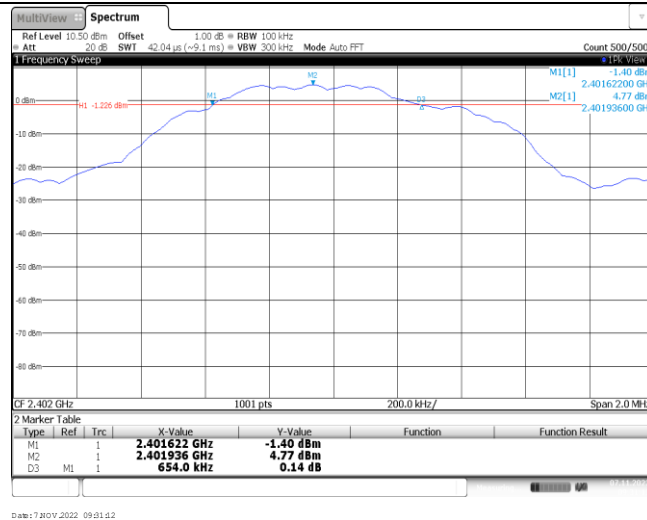
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-9.90	≤8.00	Pass
	19	-9.97		
	39	-9.64		



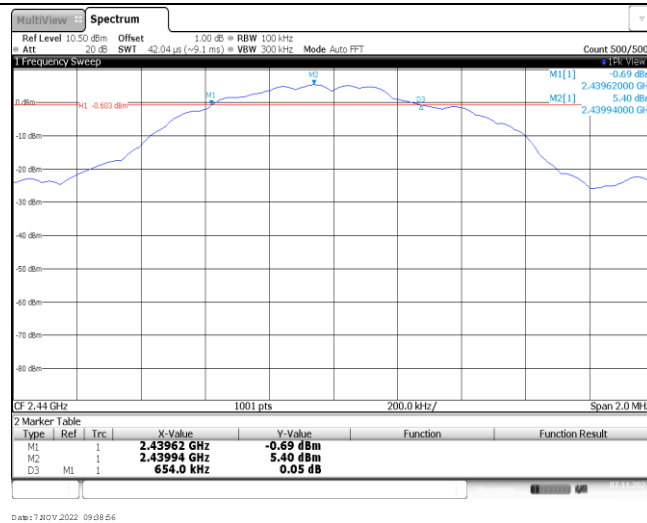
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	654.00	≥500	Pass
	19	654.00		
	39	624.00		

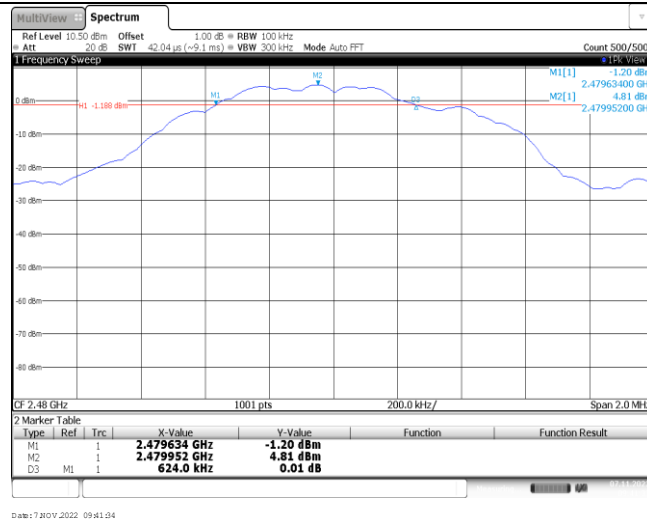
CH00



CH19



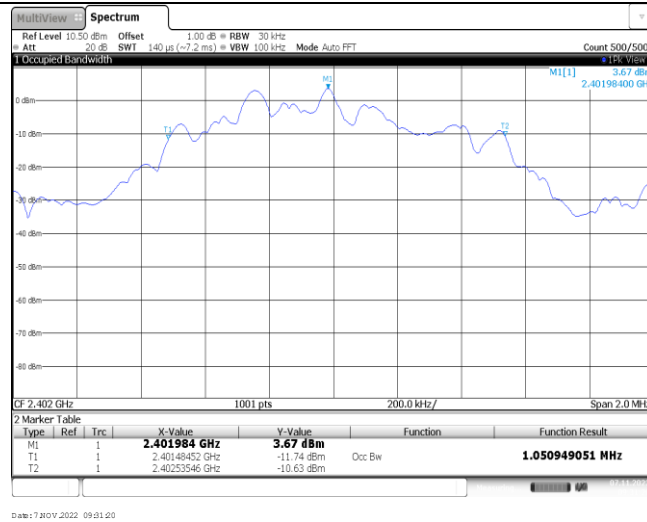
CH39



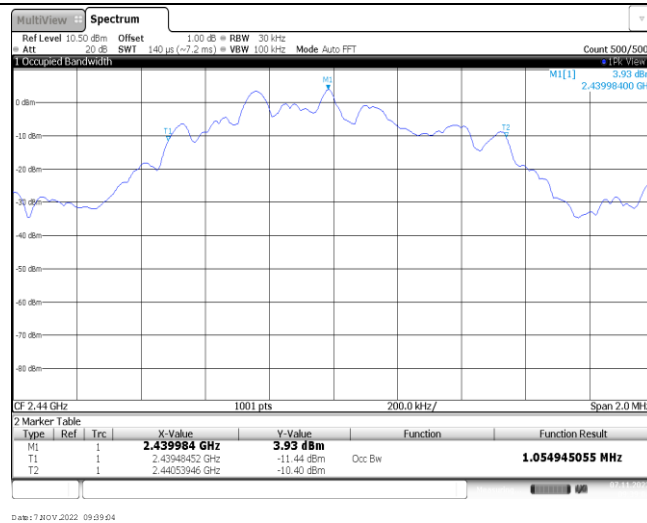
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.05	-	Pass
	19	1.05		
	39	1.05		

CH00



CH19

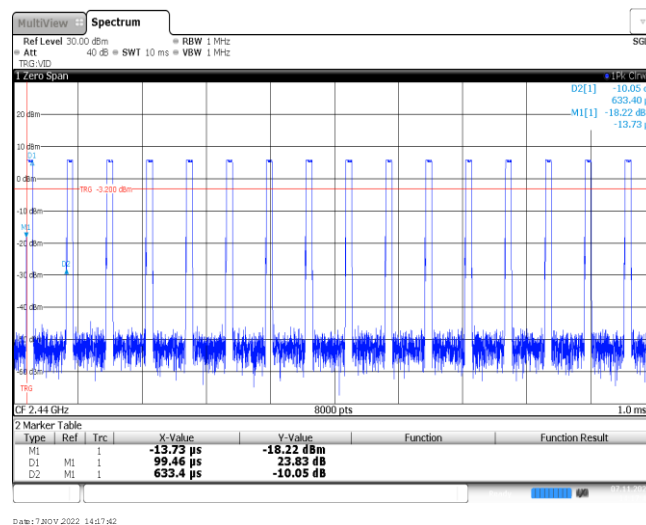


CH39



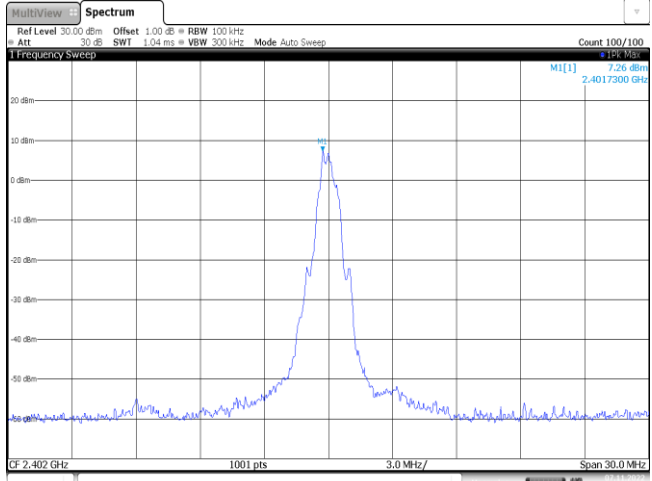
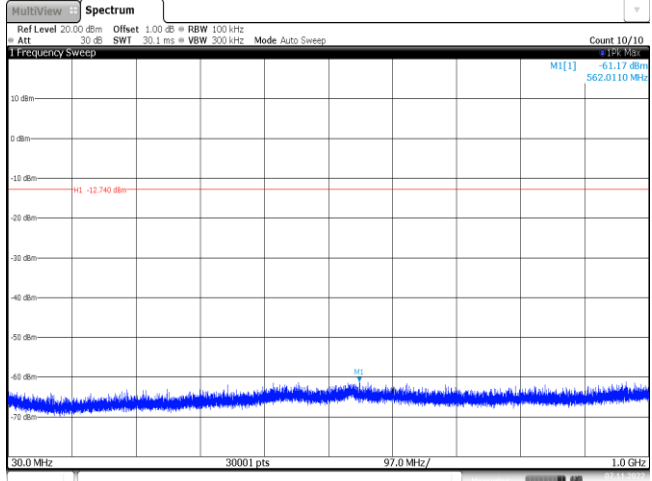
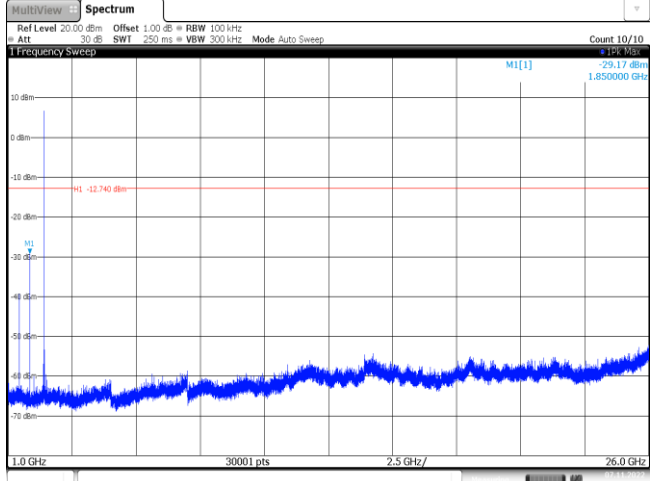
Appendix E: Duty cycle

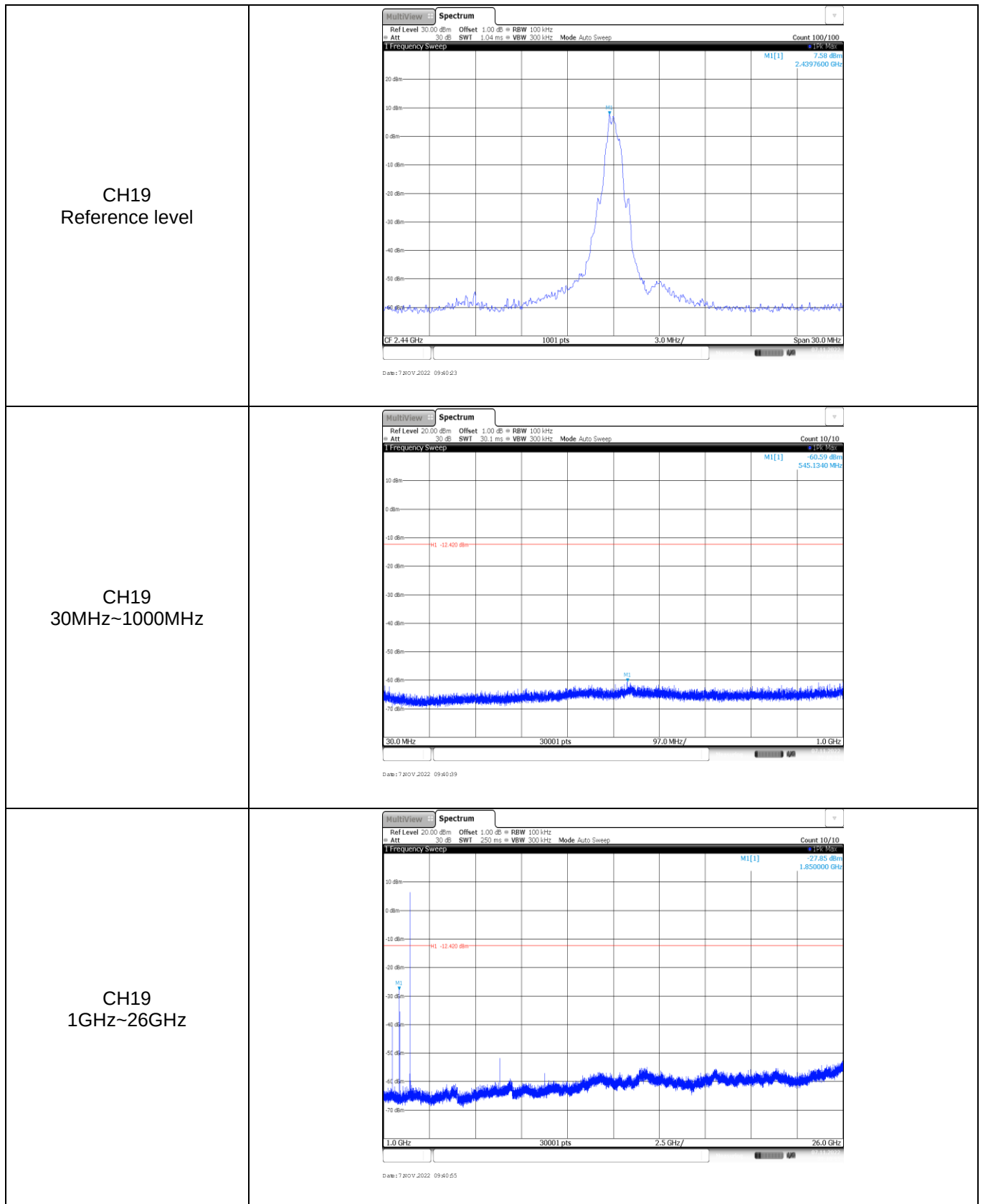
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.10	0.63	15.9%	10.0

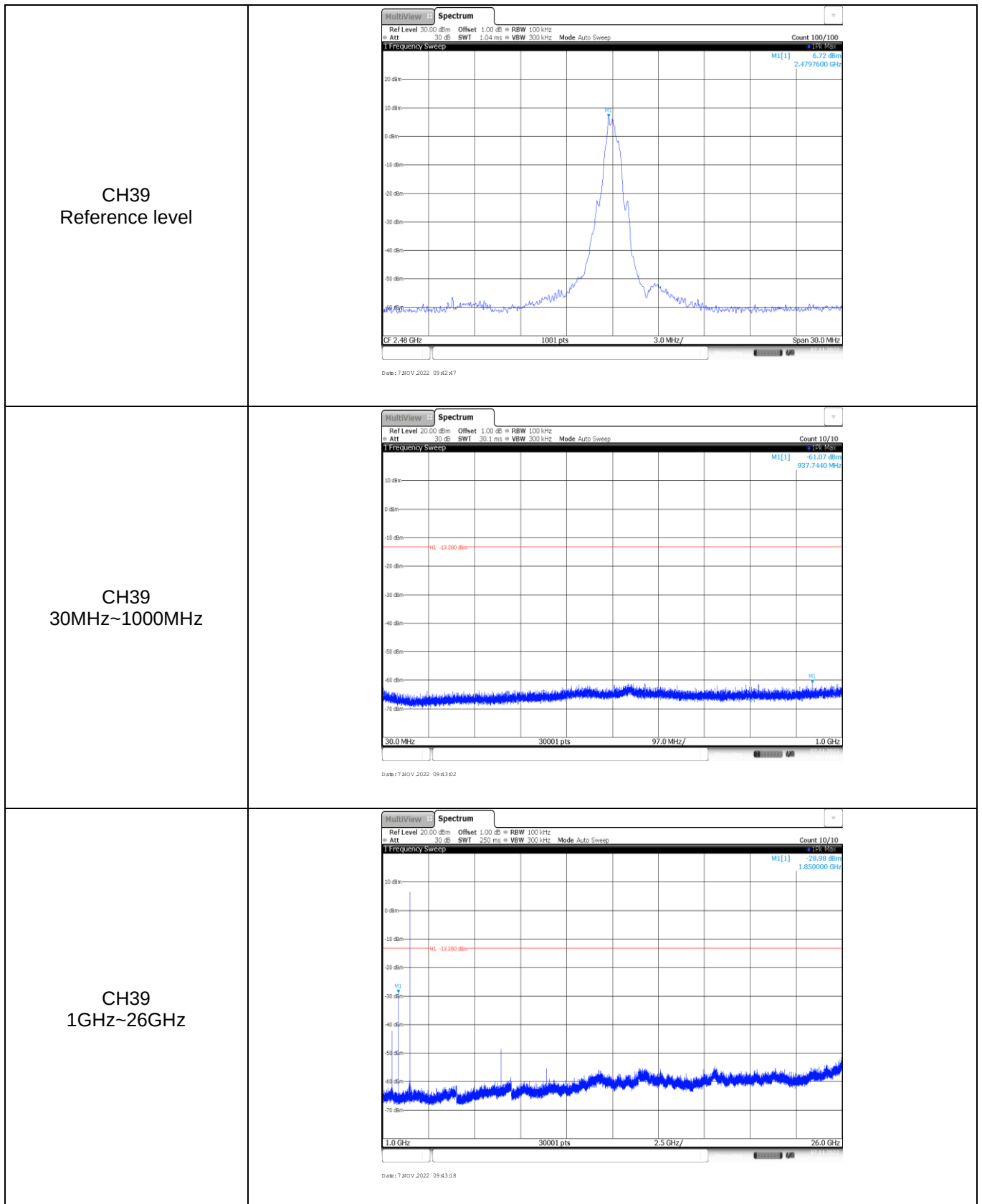


Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
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 6.58 dBm M1[1] 2.401726 GHz -50.62 dBm M2[1] 2.400000 GHz 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 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>2.401726 GHz</td><td>6.58 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-50.62 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-69.78 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-74.57 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-50.73 dBm</td><td></td><td></td></tr></table> Date: 7/20/2022 09:22:27	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401726 GHz	6.58 dBm			M2	1		2.4 GHz	-50.62 dBm			M3	1		2.39 GHz	-69.78 dBm			M4	1		2.31 GHz	-74.57 dBm			M5	1		2.399965 GHz	-50.73 dBm		
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M1	1		2.401726 GHz	6.58 dBm																																							
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M5	1		2.399965 GHz	-50.73 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 6.71 dBm M1[1] 2.479747 GHz -55.69 dBm M2[1] 2.483500 GHz 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 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>2.479747 GHz</td><td>6.71 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-55.69 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-61.32 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483522 GHz</td><td>-55.74 dBm</td><td></td><td></td></tr></table> Date: 7/20/2022 09:42:40	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479747 GHz	6.71 dBm			M2	1		2.4835 GHz	-55.69 dBm			M3	1		2.5 GHz	-61.32 dBm			M4	1		2.483522 GHz	-55.74 dBm									
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M2	1		2.4835 GHz	-55.69 dBm																																							
M3	1		2.5 GHz	-61.32 dBm																																							
M4	1		2.483522 GHz	-55.74 dBm																																							

Test Item:	SE
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] 7.26 dBm 2.4017300 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 7 NOV 2022 09:33:48
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] -61.17 dBm 562.0110 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 7 NOV 2022 09:34:04
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] -29.17 dBm 1.850000 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 7 NOV 2022 09:34:20





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