

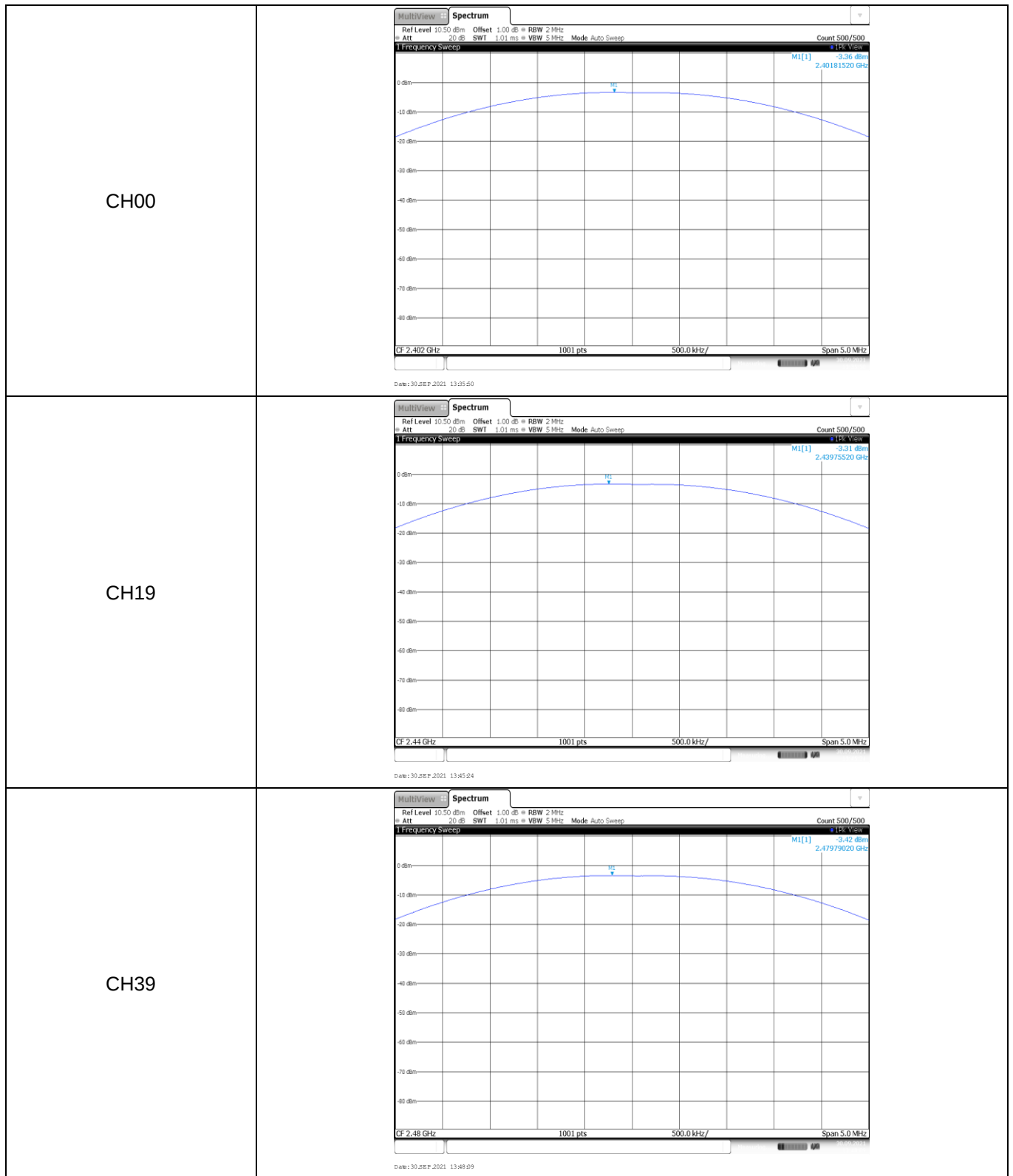
APPENDIX REPORT

Project No.	SHT2107126406EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21071264004	Model No.	eTE-68B4
Start test date	2021-09-30	Finish date	2021-09-30
Temperature	26.3℃	Humidity	33%
Test Engineer	Xiaoqin 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

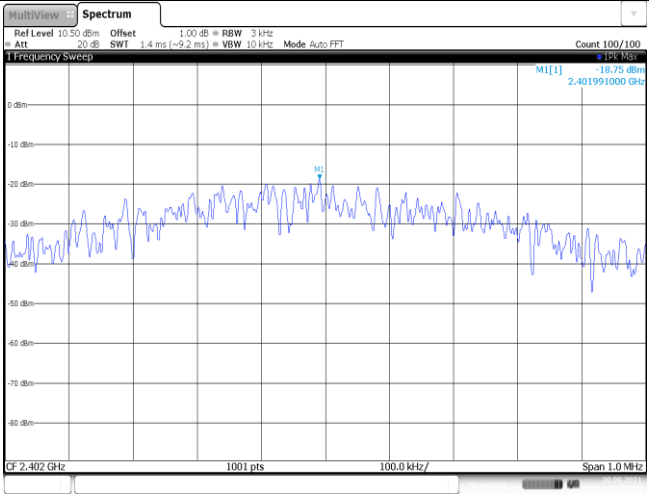
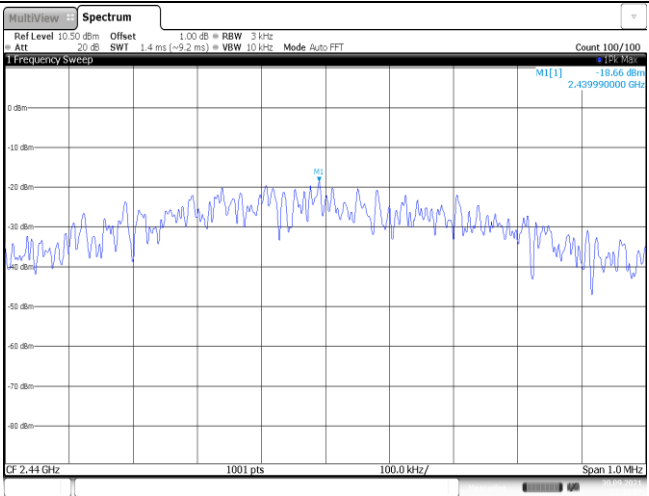
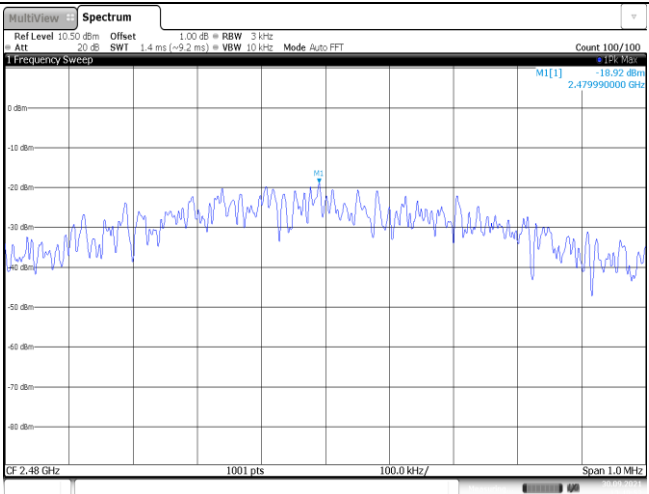
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-3.36	-7.12	≤ 30.00	Pass
	19	-3.31	-7.18		
	39	-3.42	-7.32		



Appendix B: Power Spectral Density

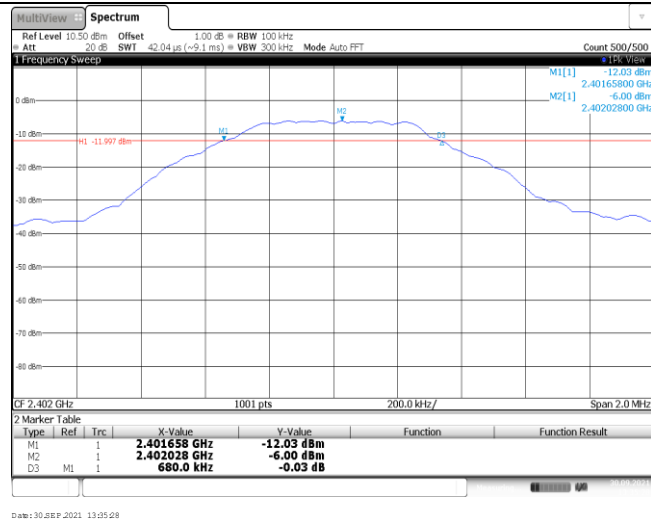
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-18.75	≤8.00	Pass
	19	-18.66		
	39	-18.92		

CH00	 Ref Level 10.50 dBm Offset 30 dB Att 30 dB SWF 1.4 ms (-9.2 ms) = VBW 10 kHz Mode Auto FFT Count 100/100 M1[1] -18.75 dBm 2.401991000 GHz CF 2.40 GHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 30.SEP.2021 13:07:03
CH19	 Ref Level 10.50 dBm Offset 30 dB Att 30 dB SWF 1.4 ms (-9.2 ms) = VBW 10 kHz Mode Auto FFT Count 100/100 M1[1] -18.66 dBm 2.439990000 GHz CF 2.44 GHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 30.SEP.2021 13:46:08
CH39	 Ref Level 10.50 dBm Offset 30 dB Att 30 dB SWF 1.4 ms (-9.2 ms) = VBW 10 kHz Mode Auto FFT Count 100/100 M1[1] -18.92 dBm 2.479990000 GHz CF 2.48 GHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 30.SEP.2021 13:48:51

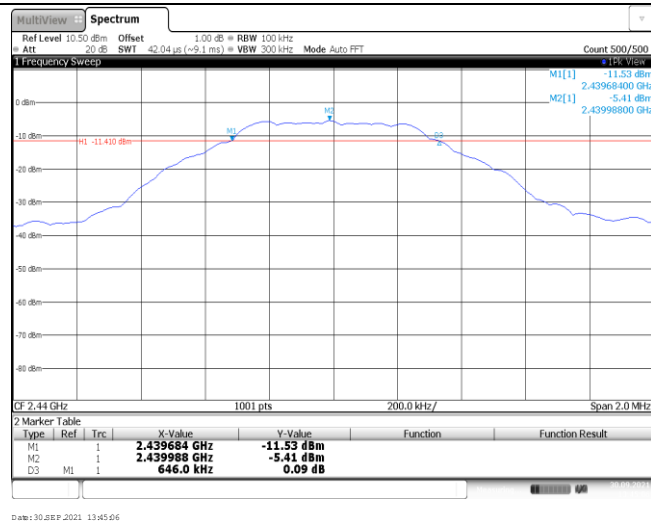
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	680.00	≥500	Pass
	19	646.00		
	39	678.00		

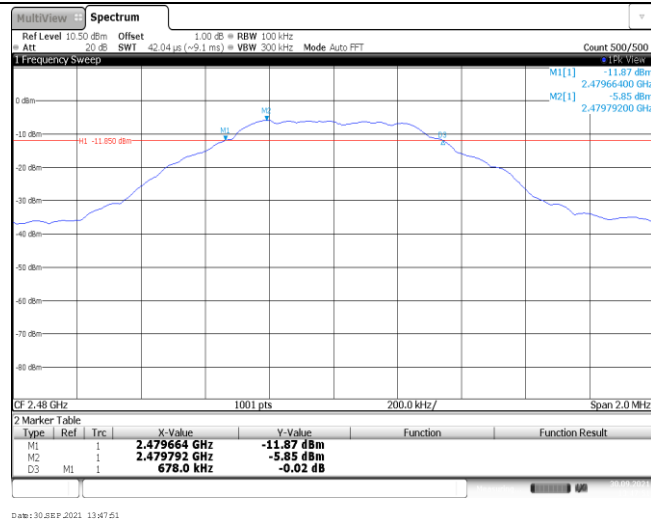
CH00



CH19

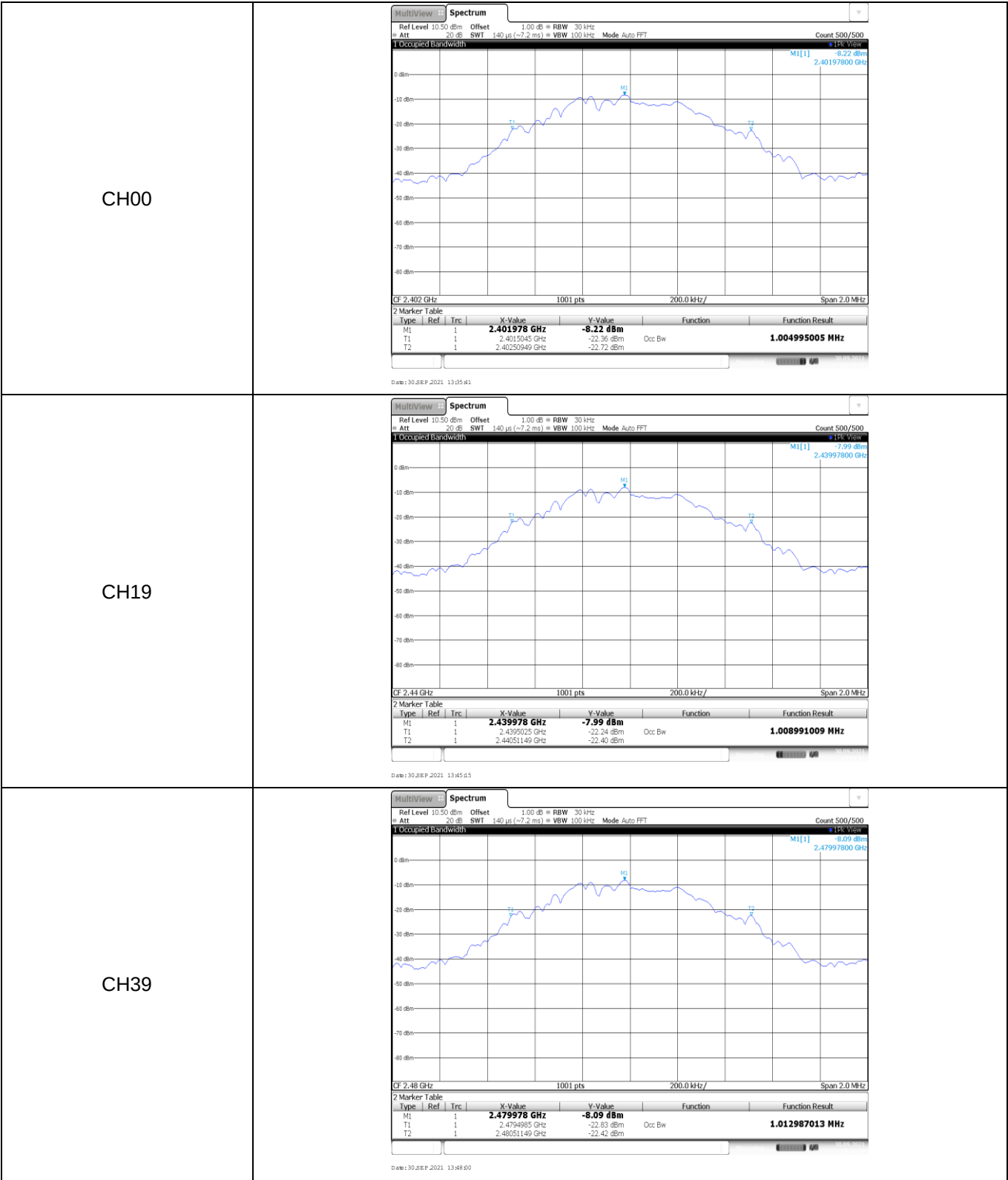


CH39



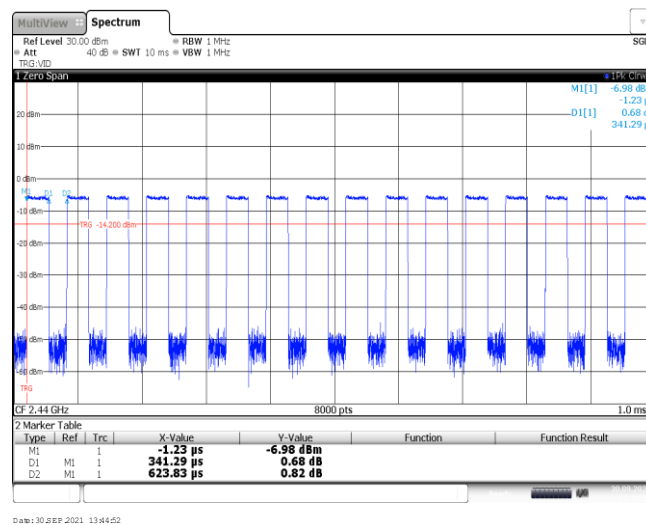
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.00	-	Pass
	19	1.01		
	39	1.01		



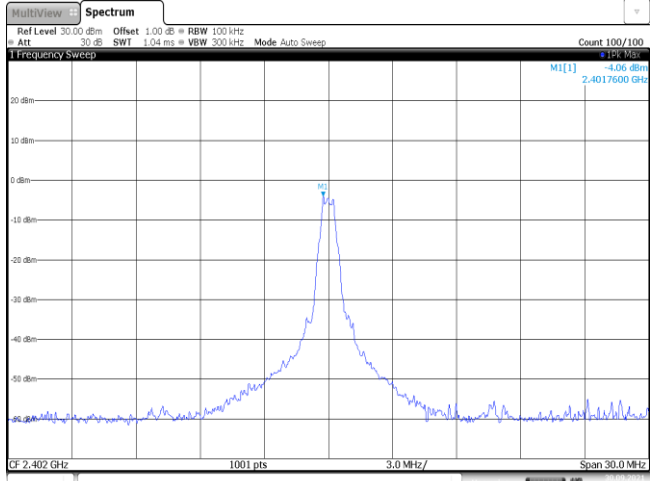
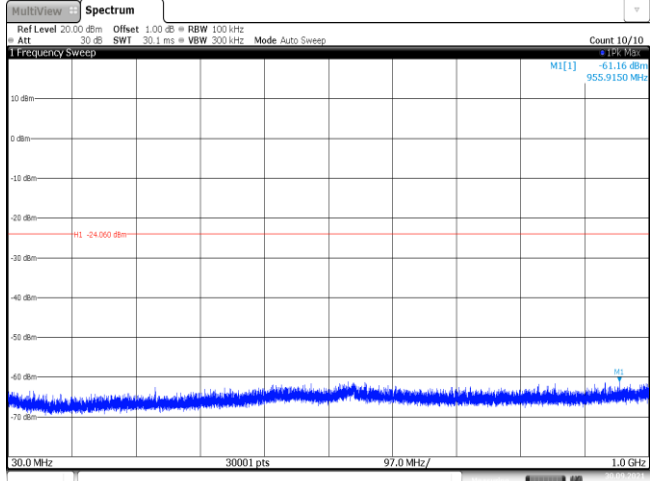
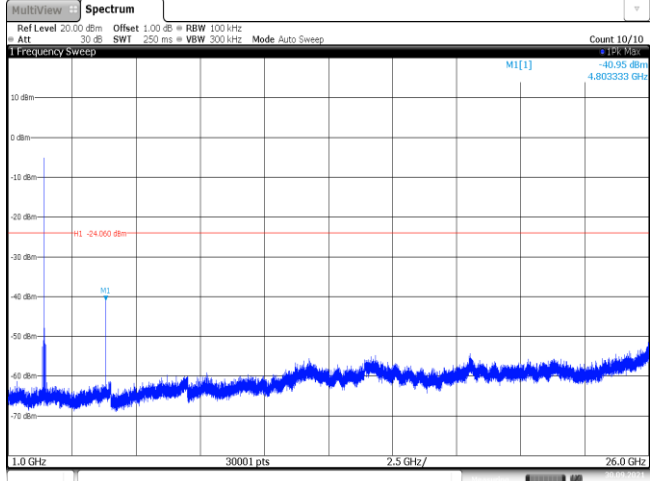
Appendix E: Duty cycle

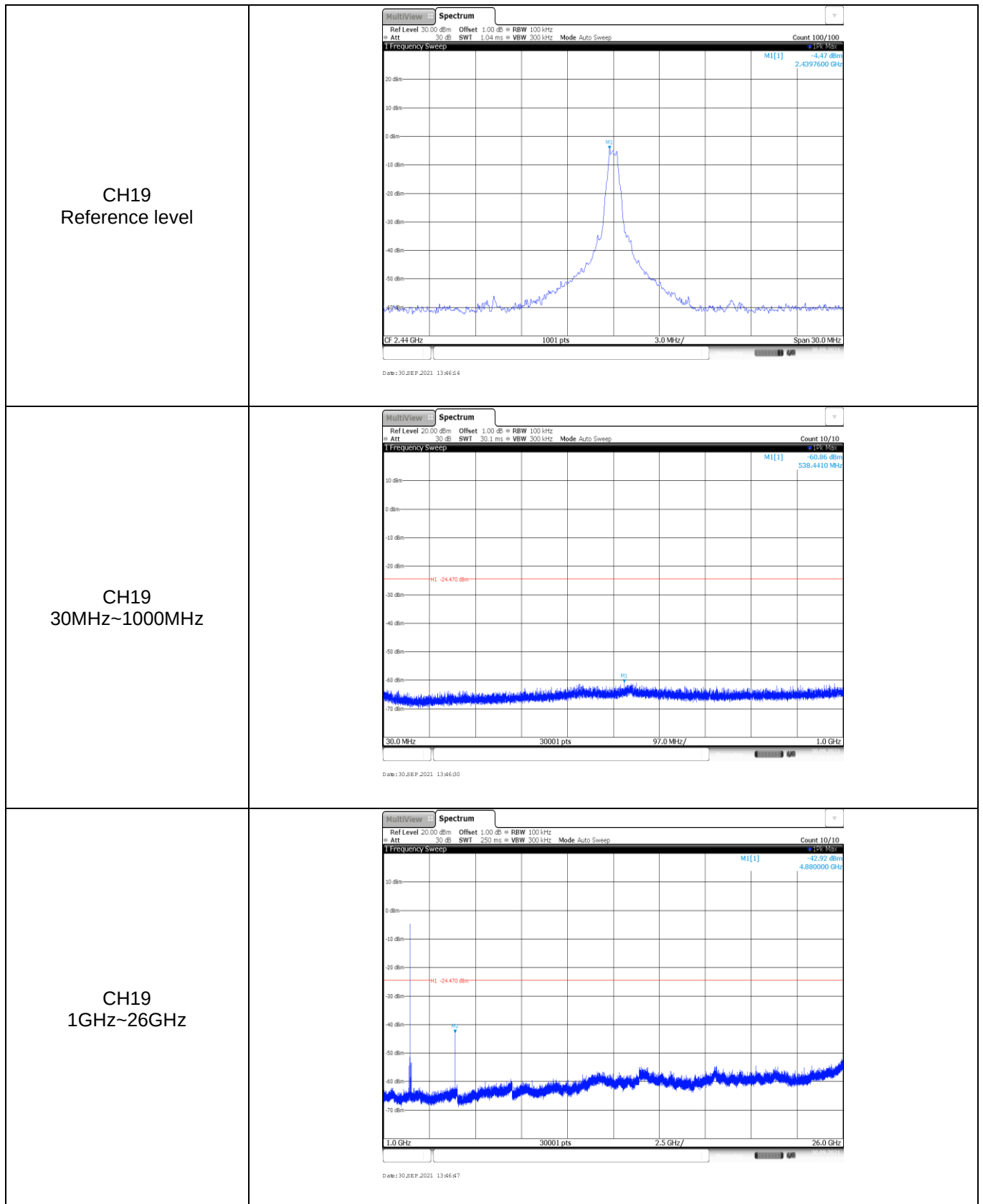
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.34	0.62	54.8%	2.9

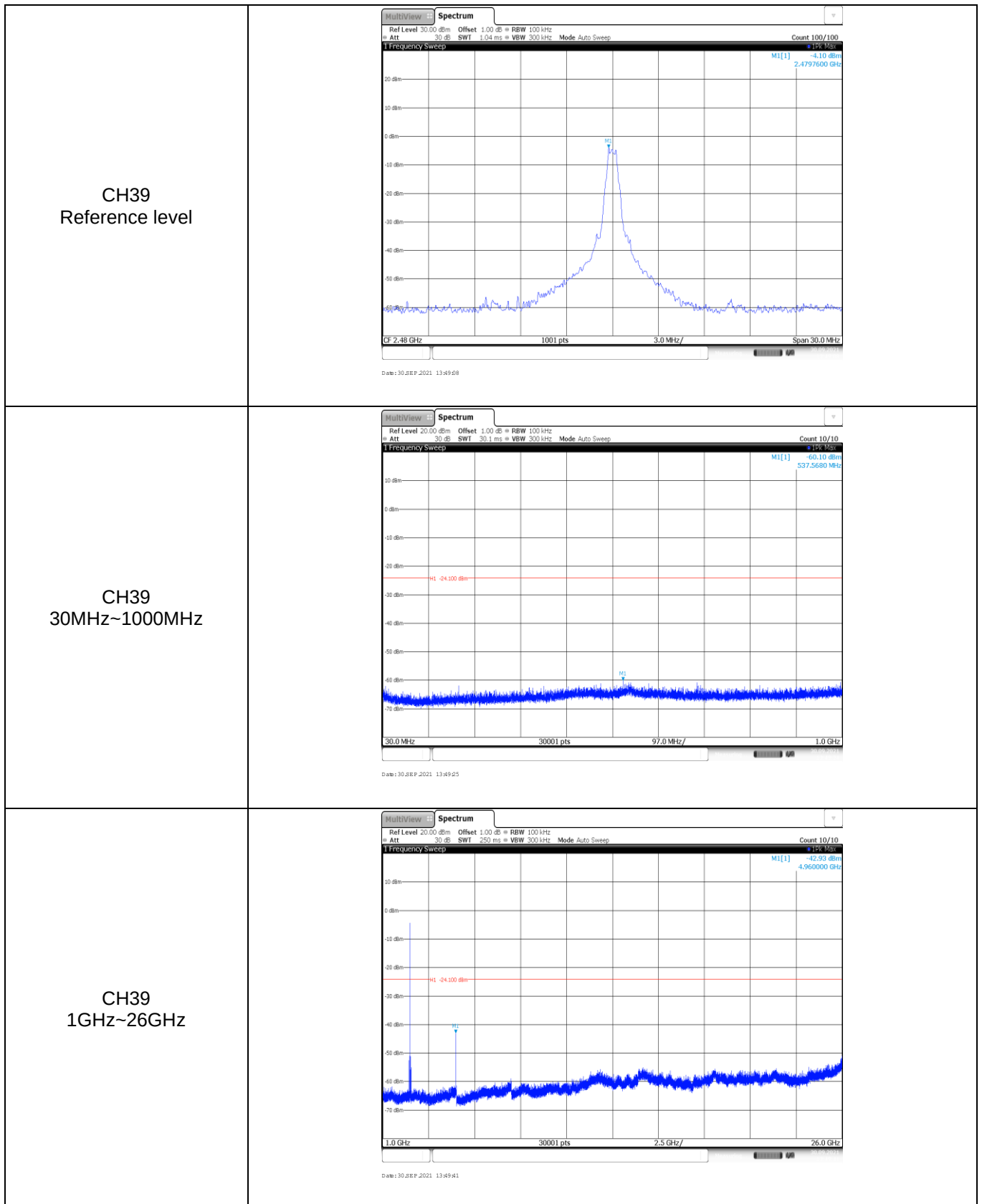


Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
CH00	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB BW 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 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz M1[1] -4.33 dBm 2.401726 GHz M2[1] -46.88 dBm 2.400000 GHz M1 M2 M3 M4 M5 <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>-4.33 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-46.88 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-72.72 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-73.95 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-46.28 dBm</td><td></td><td></td></tr></table> Date: 30.SEP.2021 13:08:23	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401726 GHz	-4.33 dBm			M2	1		2.4 GHz	-46.88 dBm			M3	1		2.39 GHz	-72.72 dBm			M4	1		2.31 GHz	-73.95 dBm			M5	1		2.399965 GHz	-46.28 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																					
M1	1		2.401726 GHz	-4.33 dBm																																							
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M4	1		2.31 GHz	-73.95 dBm																																							
M5	1		2.399965 GHz	-46.28 dBm																																							
CH39	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB BW 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 2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz M1[1] -4.39 dBm 2.479769 GHz M2[1] -55.08 dBm 2.483500 GHz M1 M2 M3 M4 <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>2.479769 GHz</td><td>-4.39 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-55.08 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-74.14 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483522 GHz</td><td>-54.88 dBm</td><td></td><td></td></tr></table> Date: 30.SEP.2021 13:49:01	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479769 GHz	-4.39 dBm			M2	1		2.4835 GHz	-55.08 dBm			M3	1		2.5 GHz	-74.14 dBm			M4	1		2.483522 GHz	-54.88 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																					
M1	1		2.479769 GHz	-4.39 dBm																																							
M2	1		2.4835 GHz	-55.08 dBm																																							
M3	1		2.5 GHz	-74.14 dBm																																							
M4	1		2.483522 GHz	-54.88 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] -4.06 dBm 2.4017600 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30 SEP 2021 13:07:22
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] -61.16 dBm 955.9130 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 30 SEP 2021 13:07:38
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] -40.95 dBm 4.803333 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 30 SEP 2021 13:07:55





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