

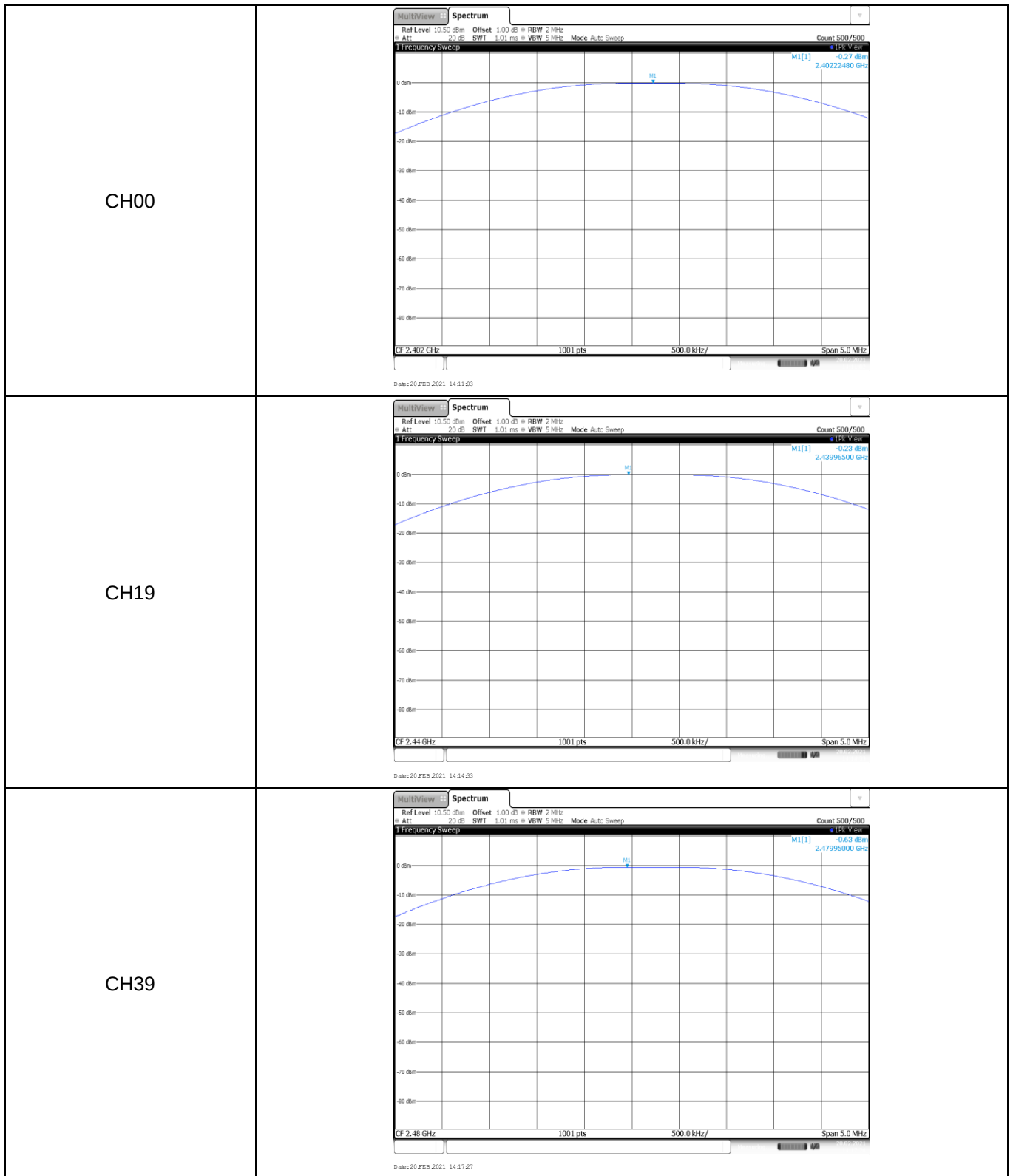
APPENDIX REPORT

Project No.	SHT2101090704EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21010907014	Model No.	i-Polish
Start test date	2021-02-20	Finish date	2021-02-20
Temperature	23.2°C	Humidity	37%
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

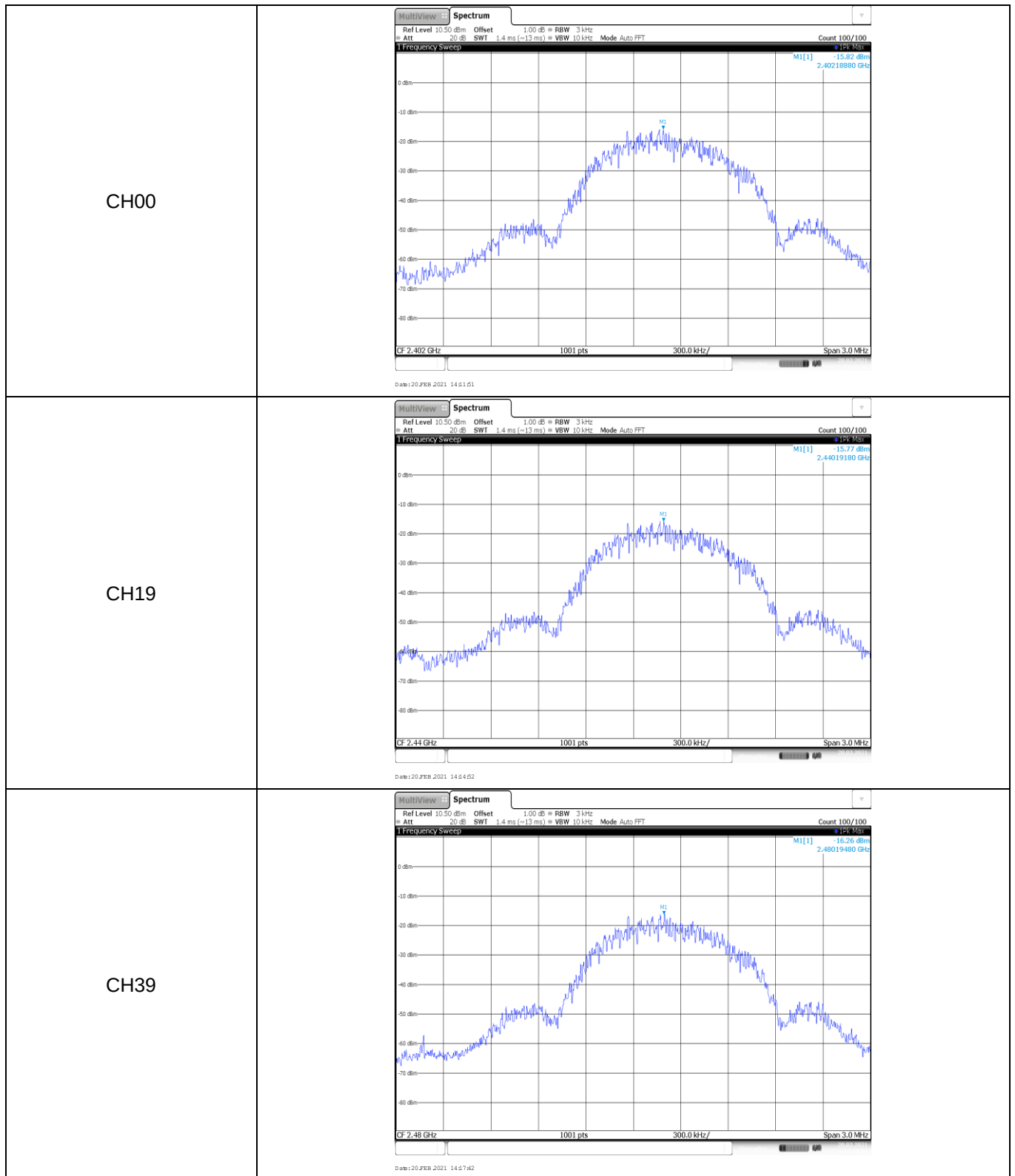
Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-0.27	-0.29	≤ 30.00	Pass
	19	-0.23	-0.25		
	39	-0.63	-0.64		



Appendix B: Power Spectral Density

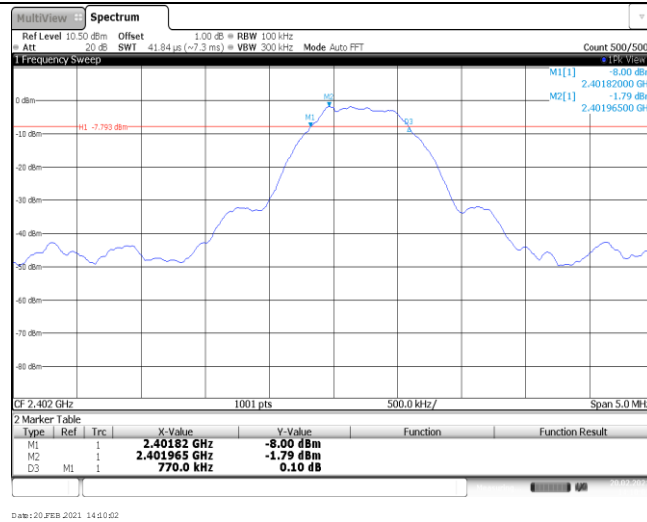
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-15.82	≤8.00	Pass
	19	-15.77		
	39	-16.26		



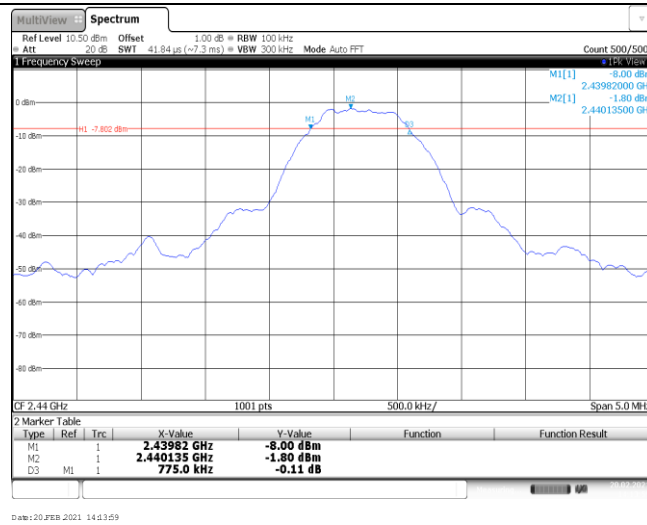
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	770.00	≥500	Pass
	19	775.00		
	39	780.00		

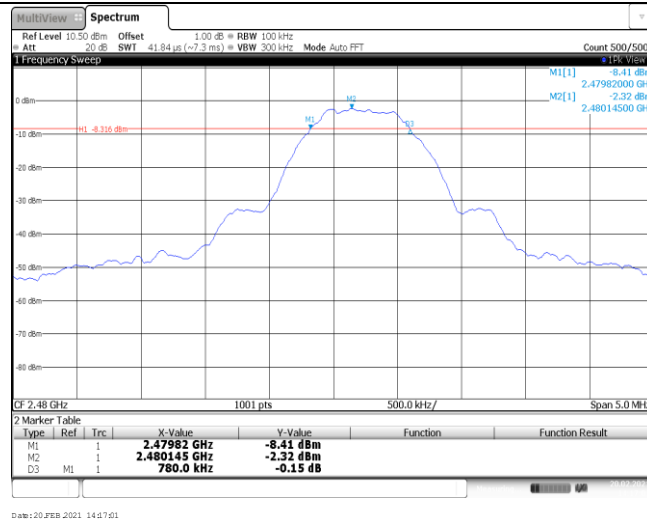
CH00



CH19



CH39



Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.03	-	Pass
	19	1.04		
	39	1.04		

CH00



CH19

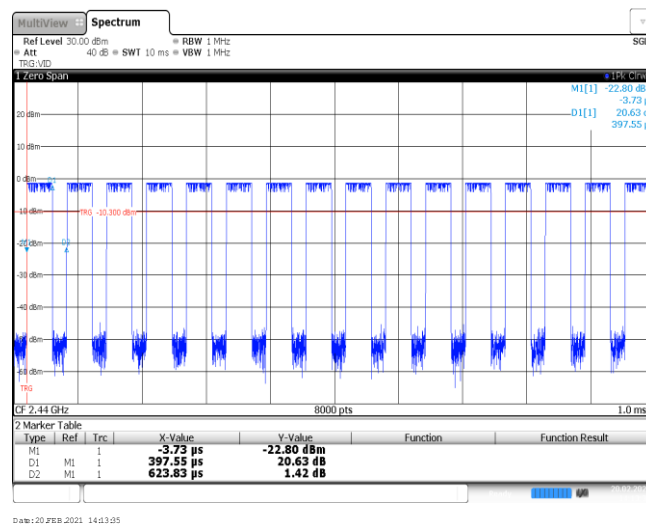


CH39



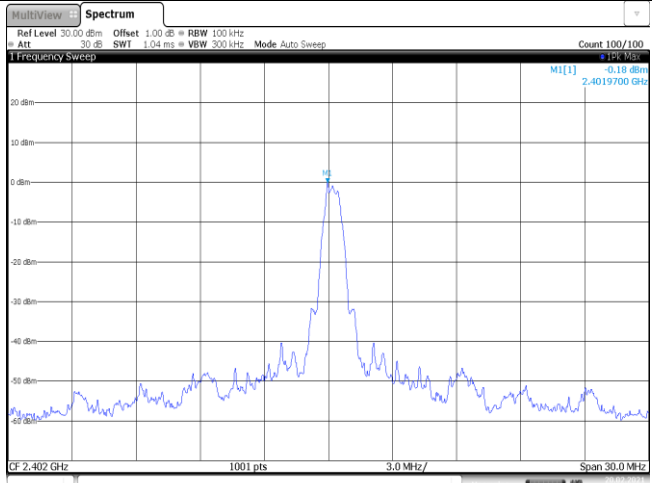
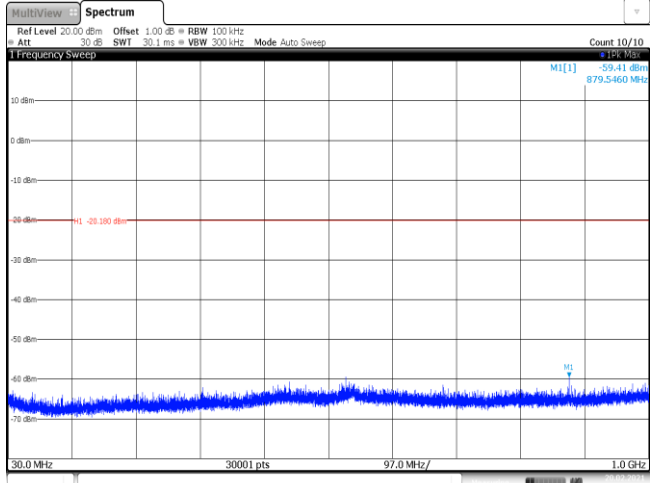
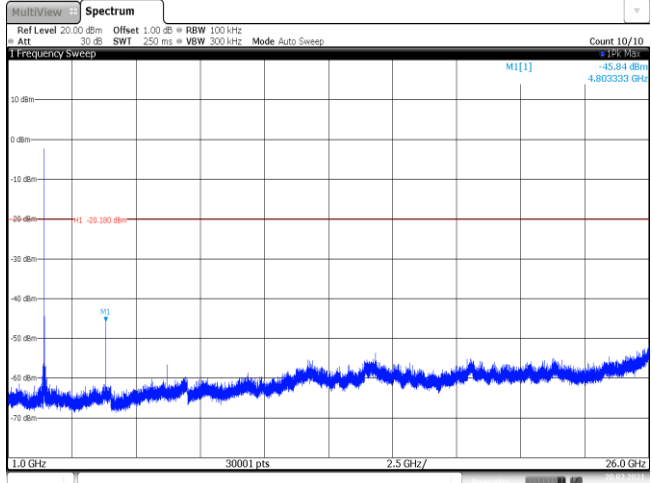
Appendix E: Duty cycle

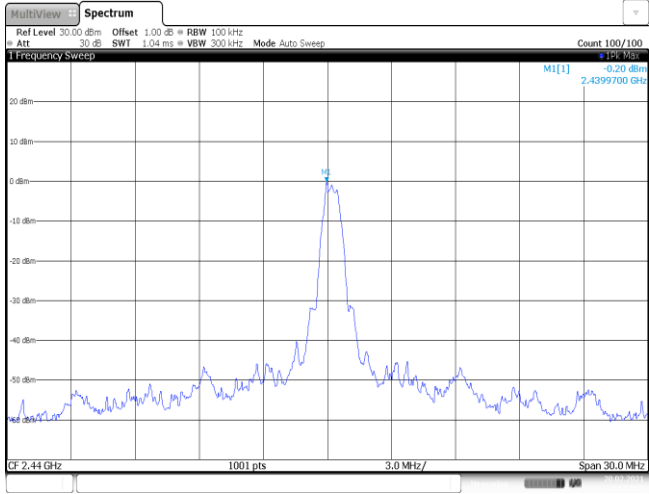
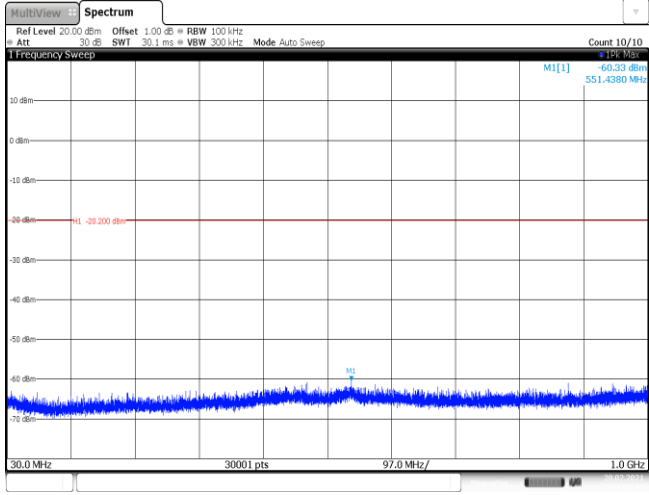
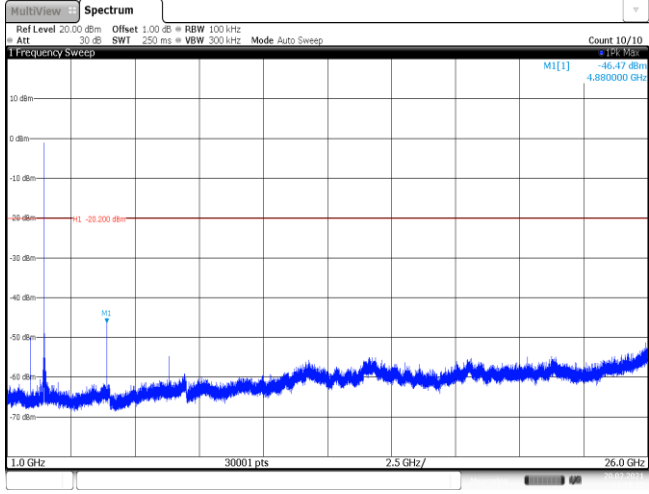
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.40	0.62	64.5%	2.5

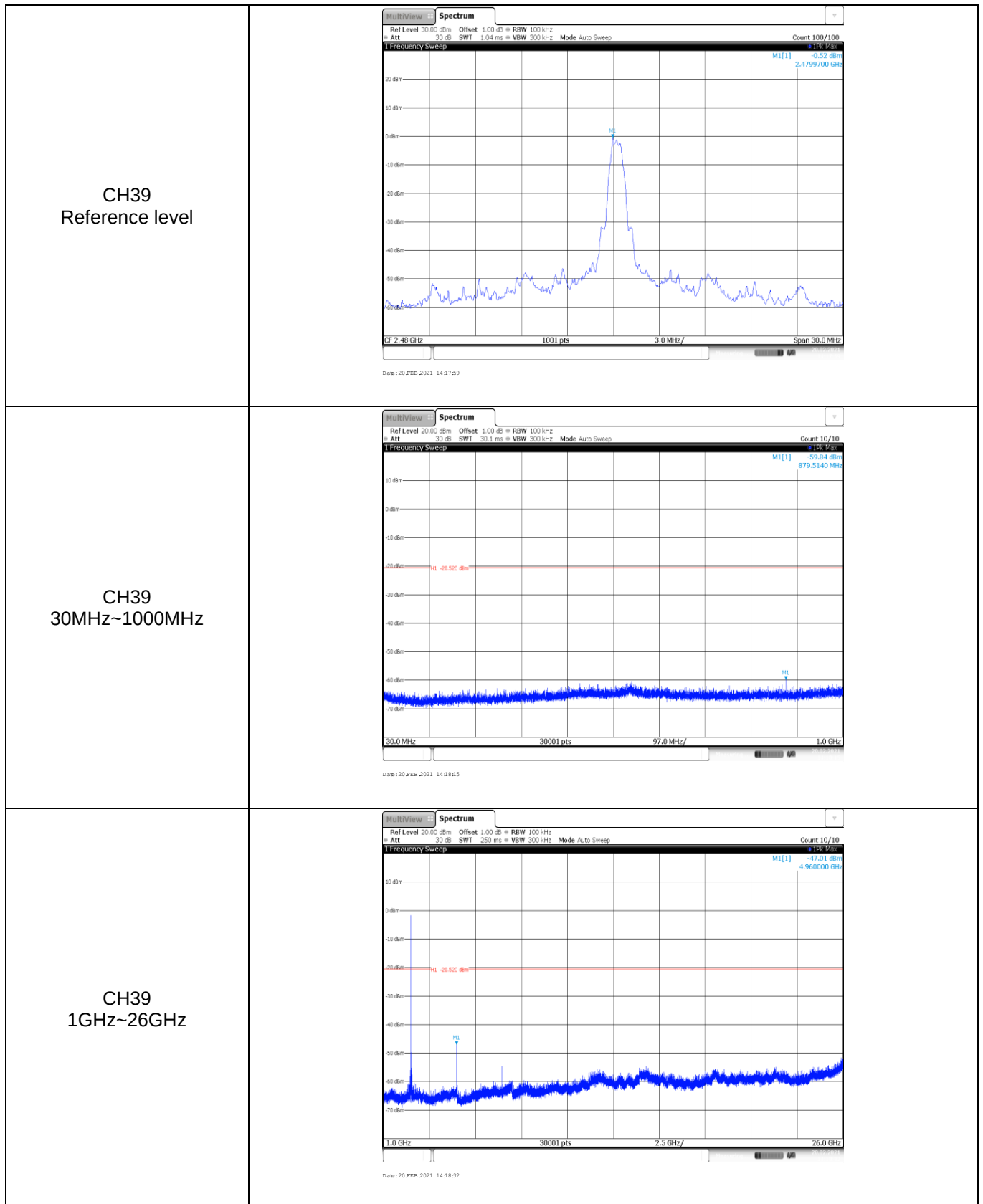


Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
CH00	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.05 ms VBW 300 kHz Mode Auto Sweep Count 300/300 150 MHz Frequency Sweep 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm M1 -20.410 dBm M1[1] -0.40 dBm 2.401916 GHz M2[1] -46.79 dBm 2.400000 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>2.401916 GHz</td><td>-0.40 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-46.79 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-57.39 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-71.39 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.39987 GHz</td><td>-40.92 dBm</td><td></td><td></td></tr></table> Date: 20.FEB.2021 14:12:23	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401916 GHz	-0.40 dBm			M2	1		2.4 GHz	-46.79 dBm			M3	1		2.39 GHz	-57.39 dBm			M4	1		2.31 GHz	-71.39 dBm			M5	1		2.39987 GHz	-40.92 dBm		
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M5	1		2.39987 GHz	-40.92 dBm																																							
CH39	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.02 ms VBW 300 kHz Mode Auto Sweep Count 100/100 150 MHz Frequency Sweep 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm M1 -20.740 dBm M1[1] -0.74 dBm 2.4799670 GHz M2[1] -50.44 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>2.479967 GHz</td><td>-0.74 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-50.44 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-64.54 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483698 GHz</td><td>-46.76 dBm</td><td></td><td></td></tr></table> Date: 20.FEB.2021 14:17:52	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479967 GHz	-0.74 dBm			M2	1		2.4835 GHz	-50.44 dBm			M3	1		2.5 GHz	-64.54 dBm			M4	1		2.483698 GHz	-46.76 dBm									
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M2	1		2.4835 GHz	-50.44 dBm																																							
M3	1		2.5 GHz	-64.54 dBm																																							
M4	1		2.483698 GHz	-46.76 dBm																																							

Test Item:	SE
CH00 Reference level	 The spectrum plot shows a single prominent peak at 2.4019700 GHz. The y-axis represents power in dBm, ranging from -60 to 20. The x-axis represents frequency in GHz, ranging from 2.402 to 2.403. The peak is labeled M1[1] with a value of 0.18 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 noise floor 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. The noise floor is around -59.41 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 noise floor 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. The noise floor is around -45.84 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	
CH19 30MHz~1000MHz	
CH19 1GHz~26GHz	



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