

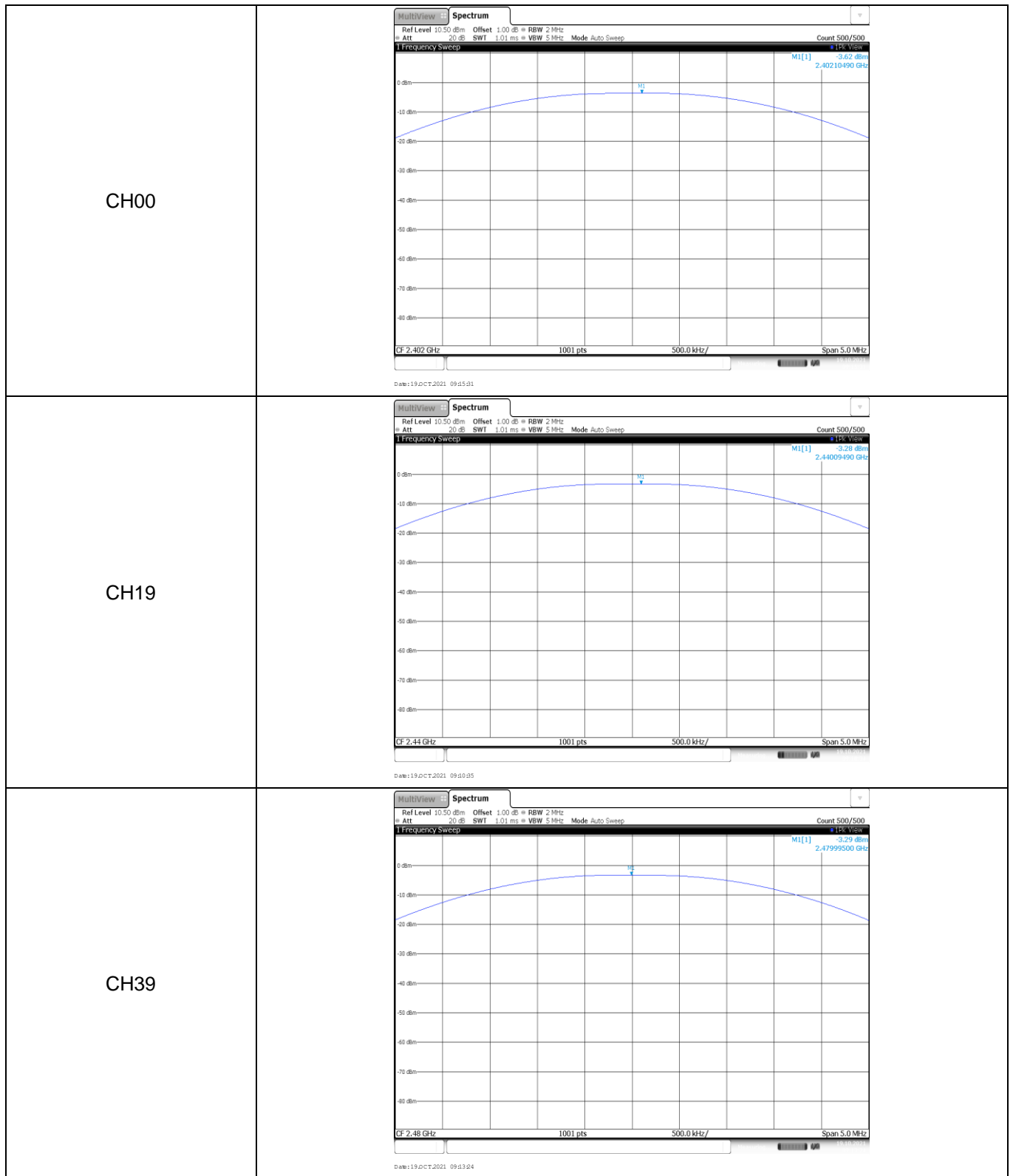
APPENDIX REPORT

Project No.	SHT2106117007EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21061170008	Model No.	C6100
Start test date	2021-10-19	Finish date	2021-10-19
Temperature	25.9℃	Humidity	30%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zhao

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

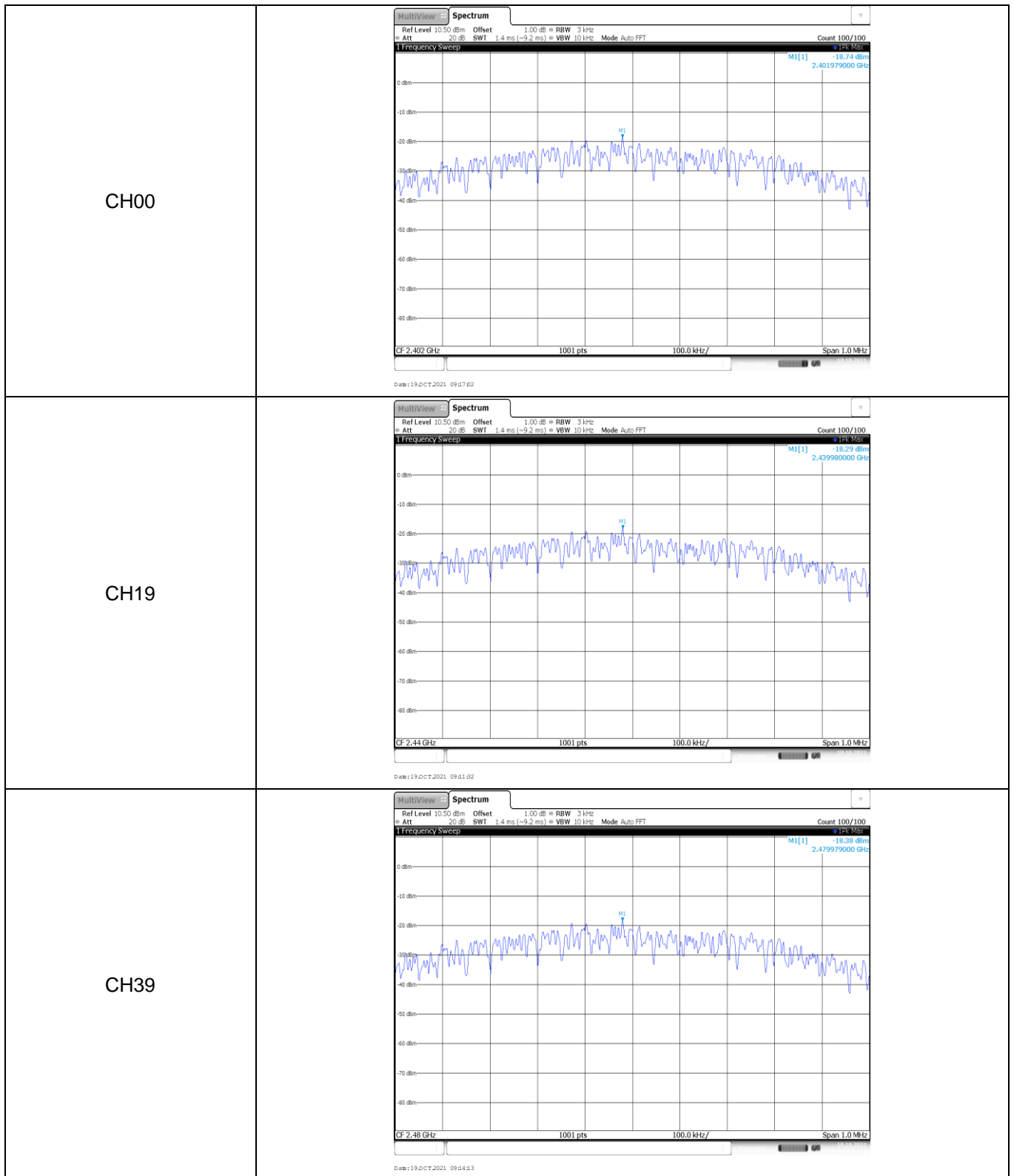
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-3.62	-3.73	≤ 30.00	Pass
	19	-3.28	-3.38		
	39	-3.29	-3.39		



Appendix B: Power Spectral Density

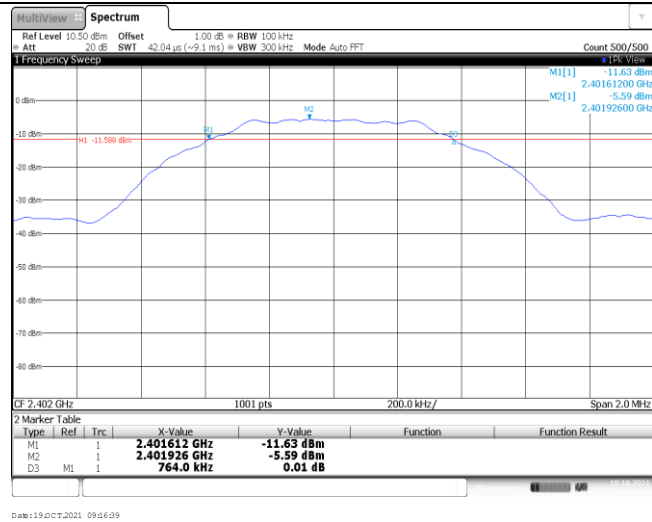
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-18.74	≤8.00	Pass
	19	-18.29		
	39	-18.38		



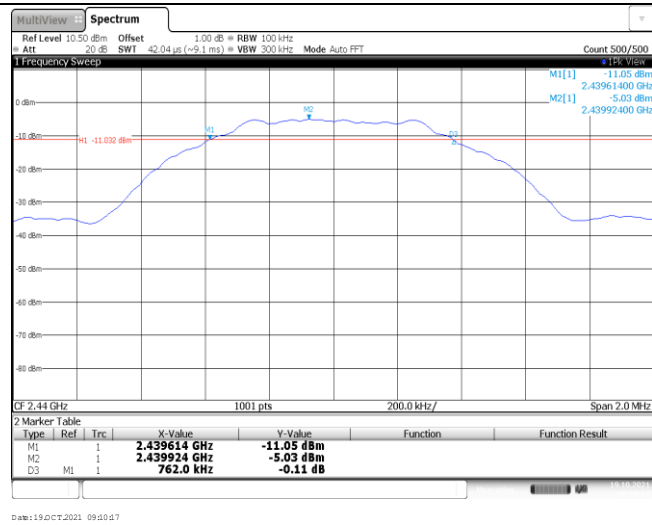
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	764.00	≥500	Pass
	19	762.00		
	39	764.00		

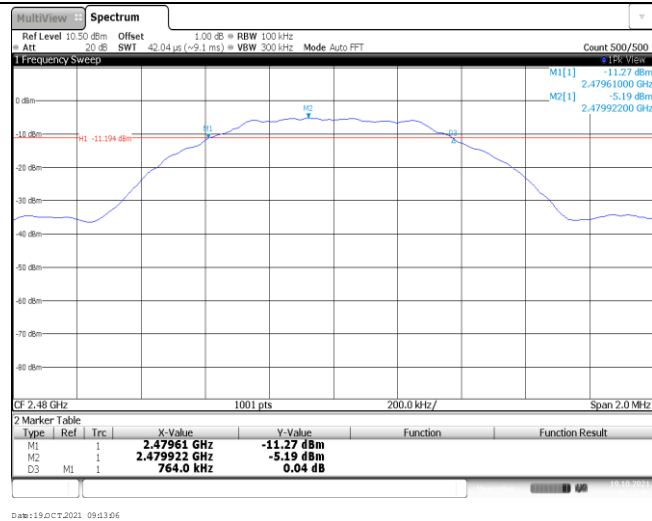
CH00



CH19



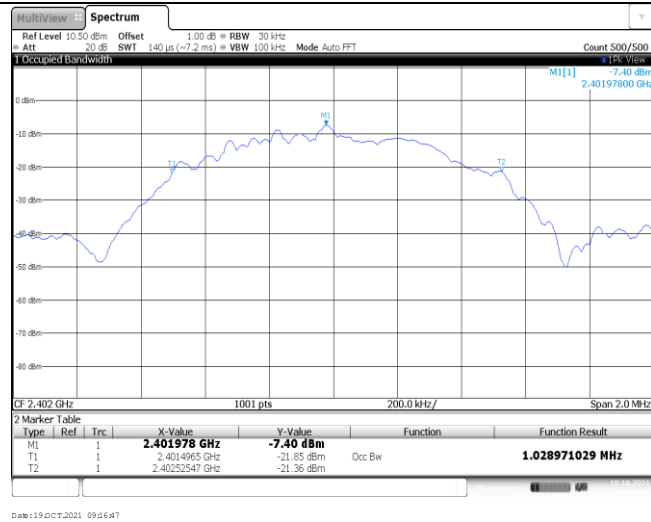
CH39



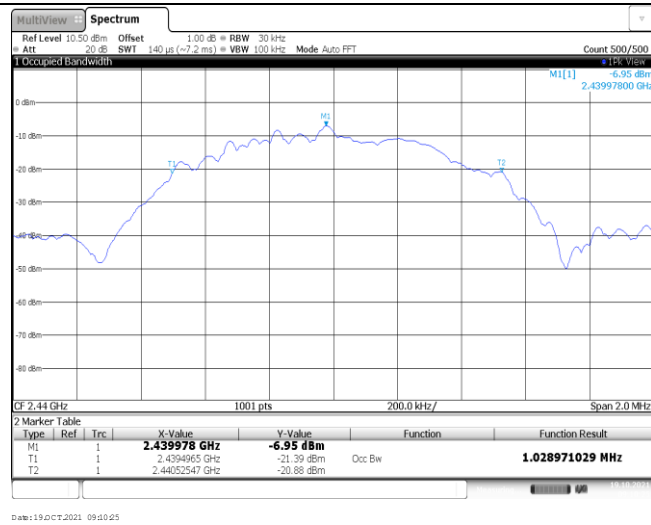
Appendix D: 99% Occupied Bandwidth

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

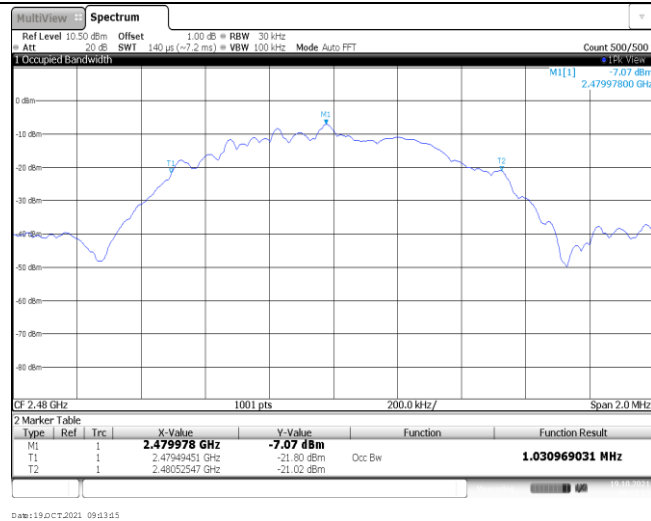
CH00



CH19

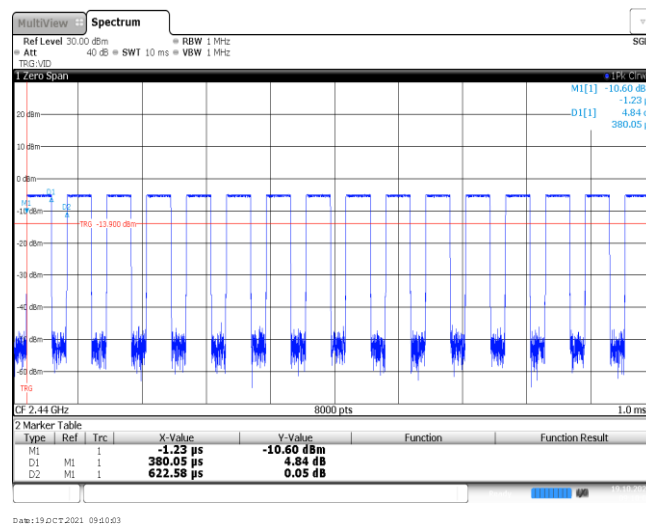


CH39



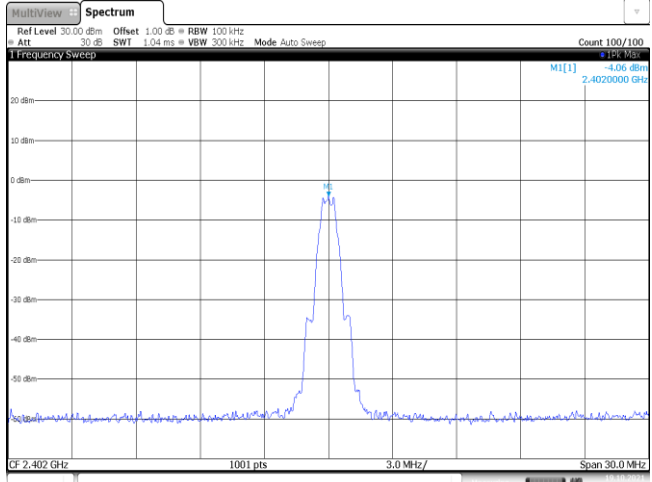
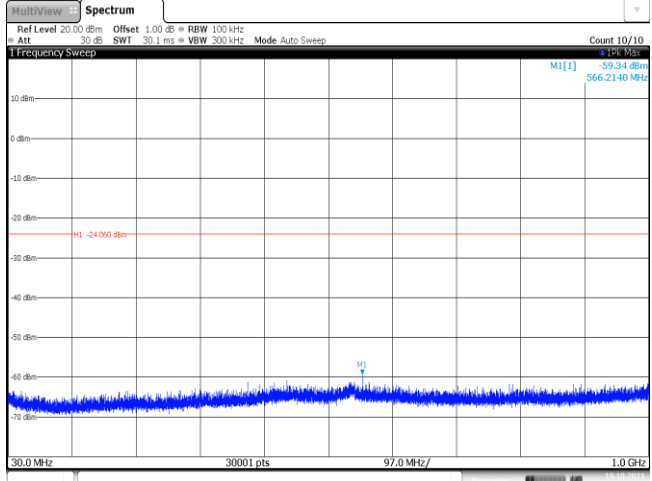
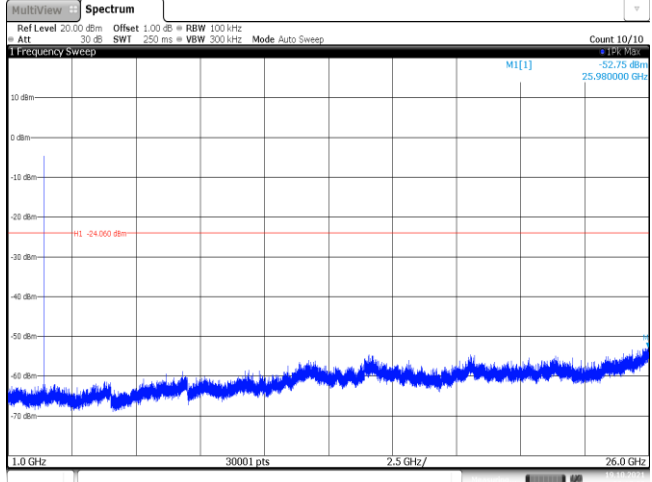
Appendix E: Duty cycle

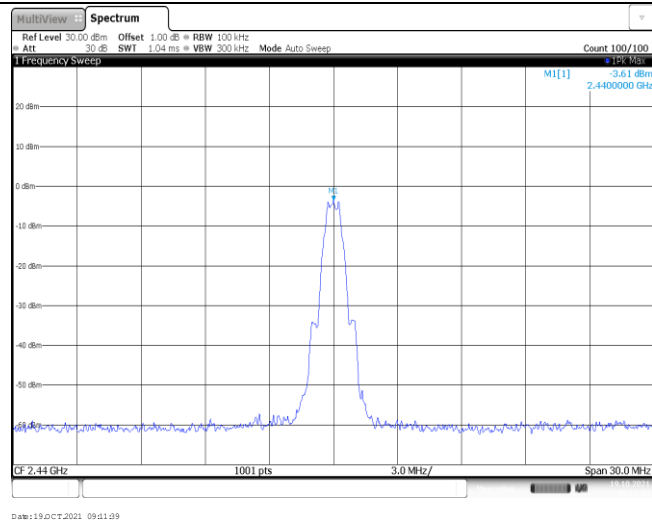
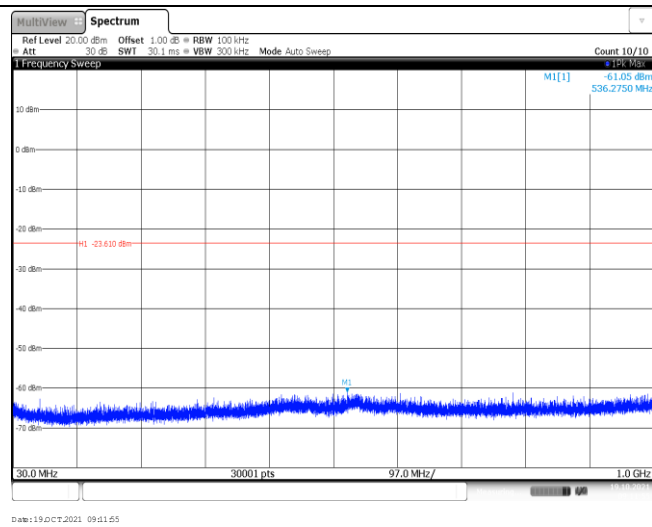
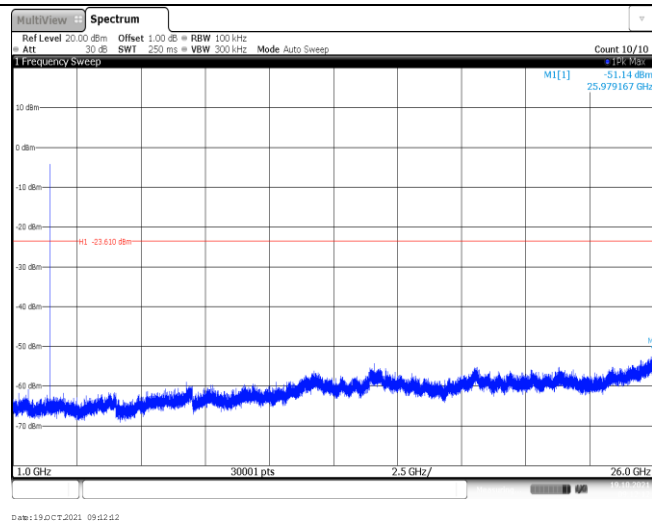
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.38	0.62	61.3%	2.6

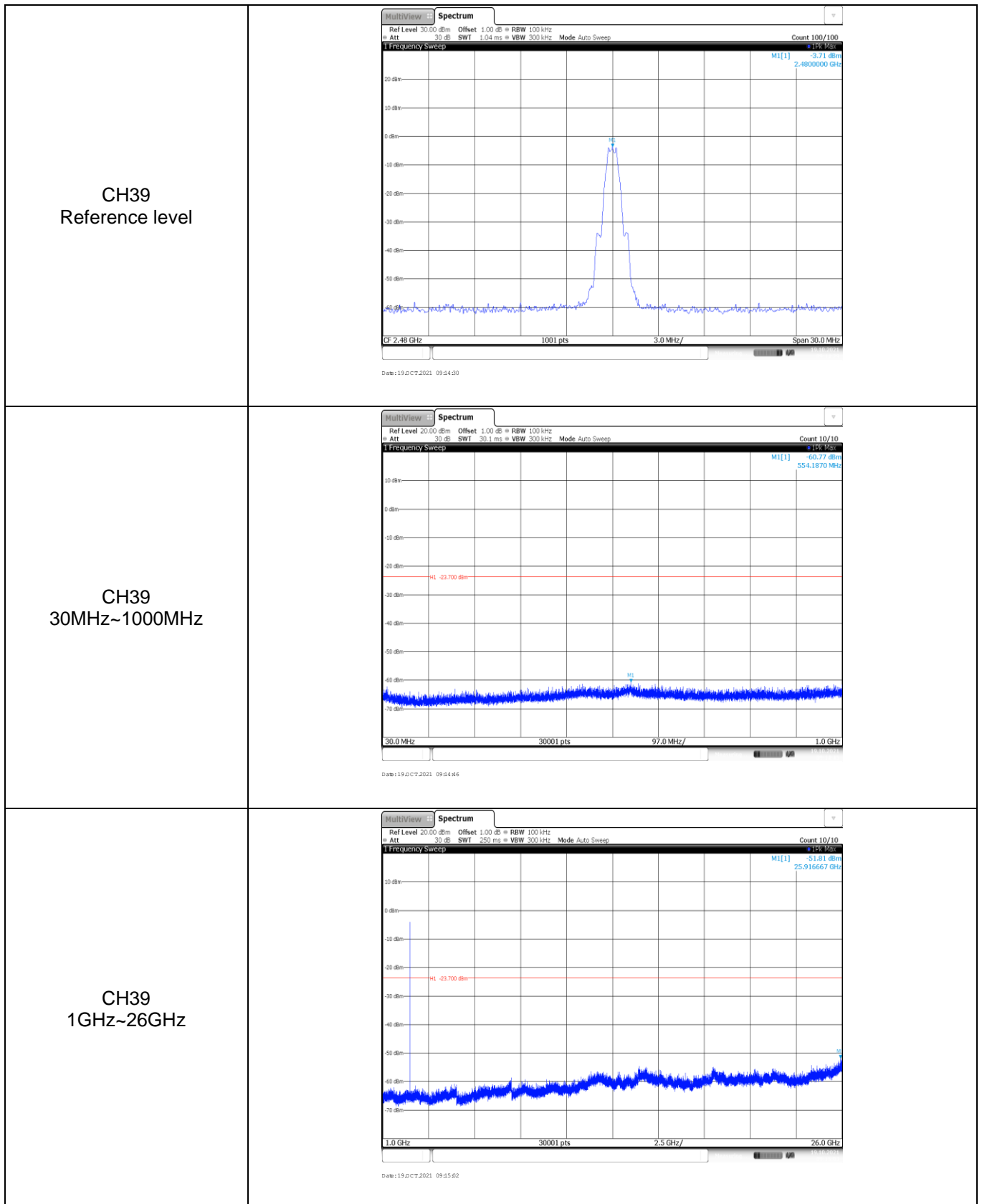


Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
CH00	<div><div><div>MultiView</div><div>Spectrum</div><div>Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWI 1.05 ms VBW 300 kHz Mode Auto Sweep</div><div>Count 300/300</div><div>1 Frequency Sweep</div><div><div>0 dBm</div><div>10 dBm</div><div>20 dBm</div><div>30 dBm</div><div>40 dBm</div><div>50 dBm</div><div>60 dBm</div><div>70 dBm</div><div>80 dBm</div></div><div><div>2.31 GHz</div><div>1001 pts</div><div>9.5 MHz/</div><div>2.405 GHz</div></div><div><div>M1[1]</div><div>-4.30 dBm</div><div>2.4020100 GHz</div><div>M2[1]</div><div>-62.03 dBm</div><div>2.4000000 GHz</div></div><div><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>-4.30 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-62.03 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-73.69 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-73.58 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-63.09 dBm</td><td></td><td></td></tr></table></div></div><div>Date: 19/01/2021 09:17:43</div></div>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	-4.30 dBm			M2	1		2.4 GHz	-62.03 dBm			M3	1		2.39 GHz	-73.69 dBm			M4	1		2.31 GHz	-73.58 dBm			M5	1		2.399965 GHz	-63.09 dBm		
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M5	1		2.399965 GHz	-63.09 dBm																																							
CH39	<div><div><div>MultiView</div><div>Spectrum</div><div>Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWI 1.02 ms VBW 300 kHz Mode Auto Sweep</div><div>Count 100/100</div><div>1 Frequency Sweep</div><div><div>0 dBm</div><div>10 dBm</div><div>20 dBm</div><div>30 dBm</div><div>40 dBm</div><div>50 dBm</div><div>60 dBm</div><div>70 dBm</div><div>80 dBm</div></div><div><div>2.478 GHz</div><div>1001 pts</div><div>2.2 MHz/</div><div>2.5 GHz</div></div><div><div>M1[1]</div><div>-3.97 dBm</div><div>2.4799890 GHz</div><div>M2[1]</div><div>-70.36 dBm</div><div>2.4835000 GHz</div></div><div><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>-3.97 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-70.36 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-73.25 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.48603 GHz</td><td>-69.52 dBm</td><td></td><td></td></tr></table></div></div><div>Date: 19/01/2021 09:14:23</div></div>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479989 GHz	-3.97 dBm			M2	1		2.4835 GHz	-70.36 dBm			M3	1		2.5 GHz	-73.25 dBm			M4	1		2.48603 GHz	-69.52 dBm									
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M4	1		2.48603 GHz	-69.52 dBm																																							

Test Item:	SE
CH00 Reference level	 <p>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 2.4020000 GHz 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 19/07/2021 09:17:19</p>
CH00 30MHz~1000MHz	 <p>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] -59.34 dBm 566.2140 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 19/07/2021 09:17:16</p>
CH00 1GHz~26GHz	 <p>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] -52.75 dBm 25.9800000 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 19/07/2021 09:17:12</p>

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



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