

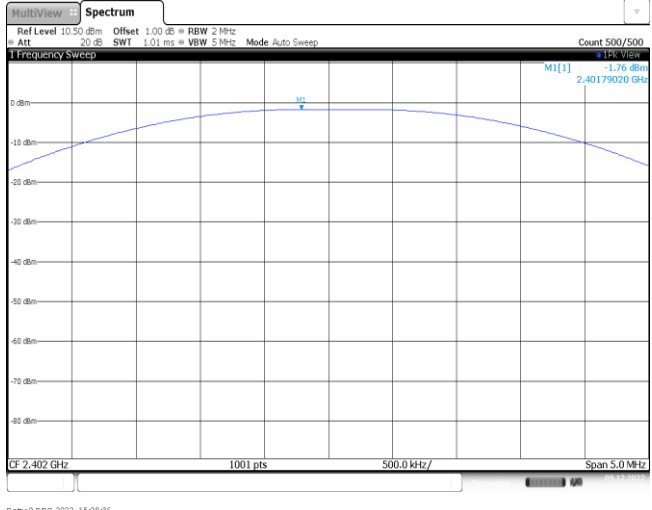
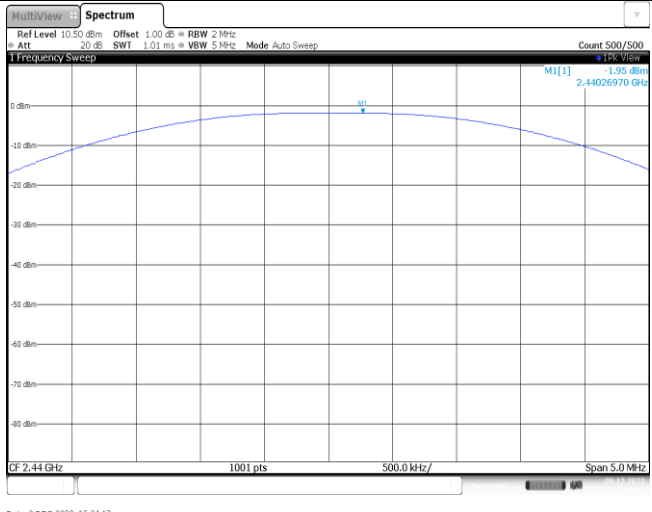
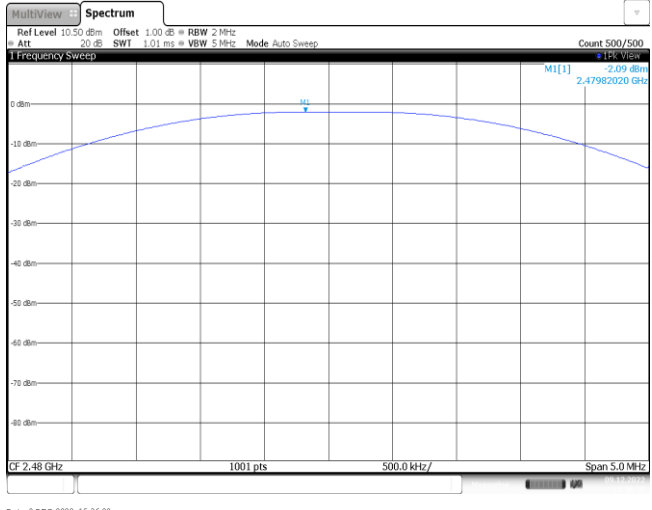
APPENDIX REPORT

Project No.	SHT2211046301EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT22110463002	Model No.	AOJ-33A
Start test date	2022-12-07	Finish date	2022-12-09
Temperature	26.0°C	Humidity	36%
Test Engineer	Xiaoxiao Li	Auditor	Xiaodong Zhe

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

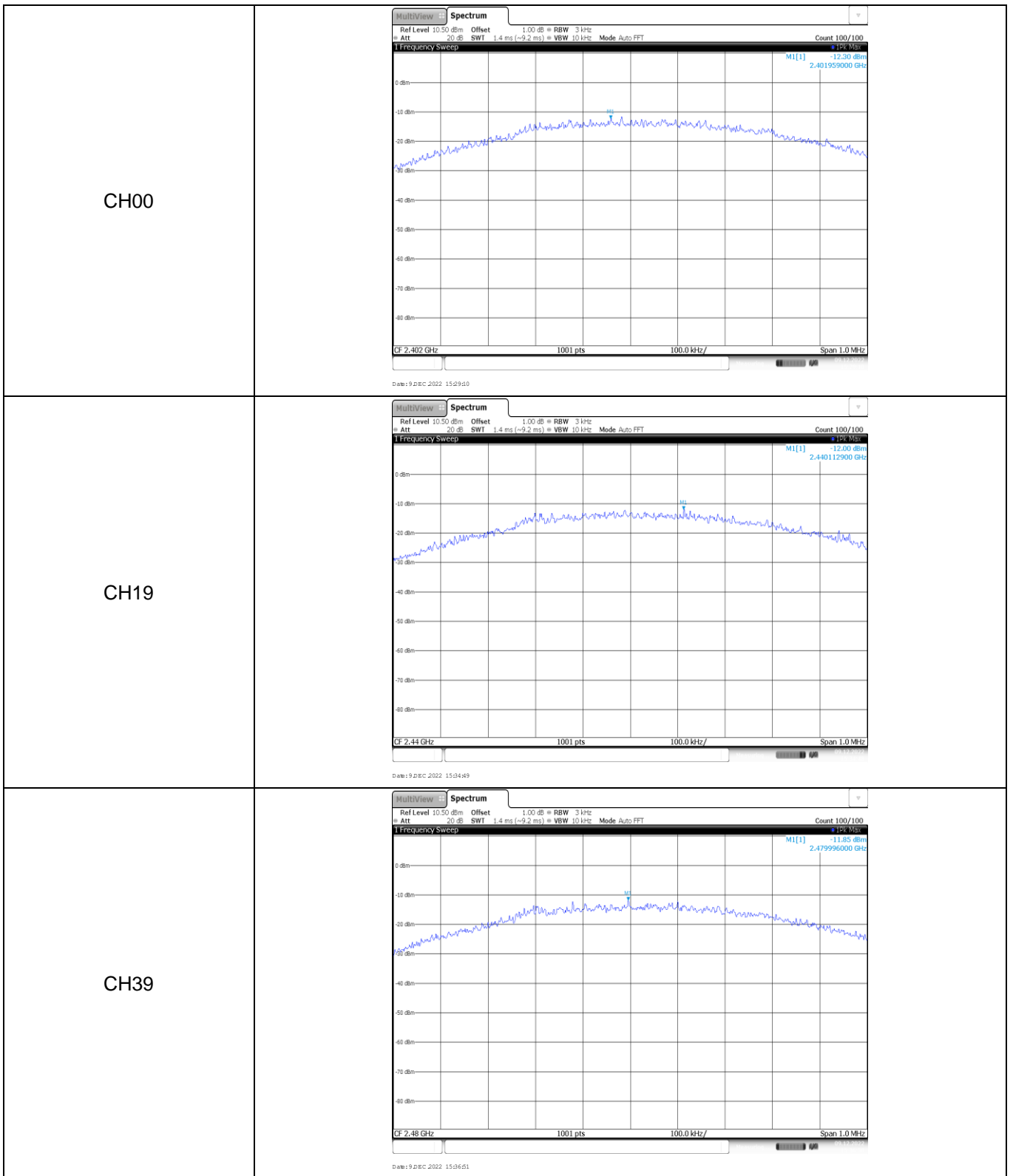
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-1.76	-1.77	≤ 30.00	Pass
	19	-1.95	-1.97		
	39	-2.09	-2.10		

<p>CH00</p>	 <p>Date: 9 DEC 2022 15:28:06</p>
<p>CH19</p>	 <p>Date: 9 DEC 2022 15:24:17</p>
<p>CH39</p>	 <p>Date: 9 DEC 2022 15:26:20</p>

Appendix B: Power Spectral Density

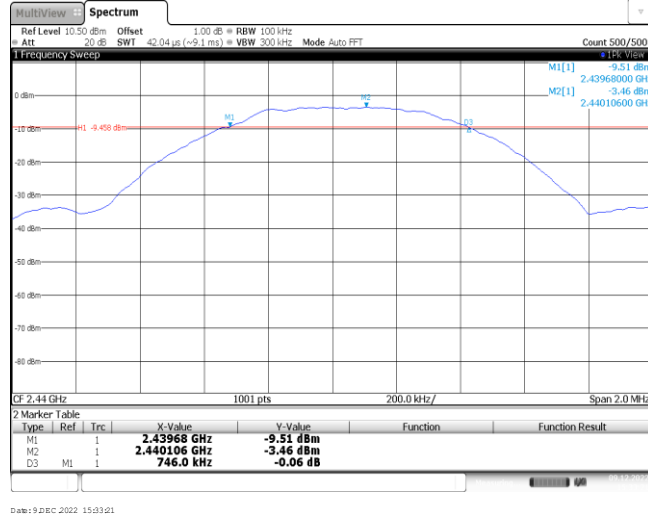
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-12.30	≤8.00	Pass
	19	-12.00		
	39	-11.85		



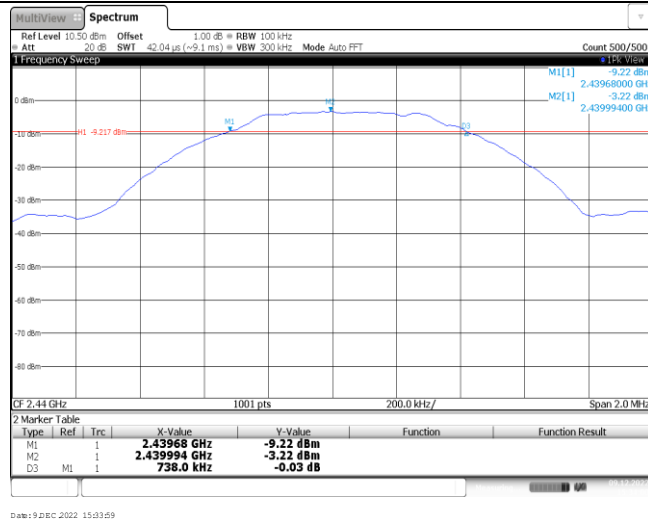
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	746.00	≥500	Pass
	19	738.00		
	39	756.00		

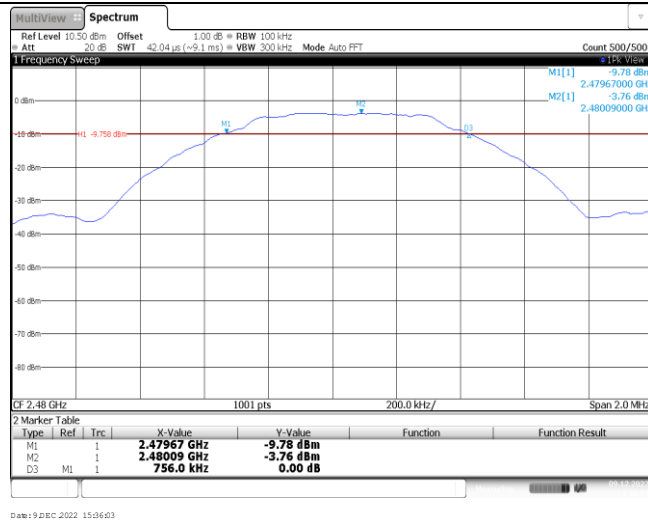
CH00



CH19



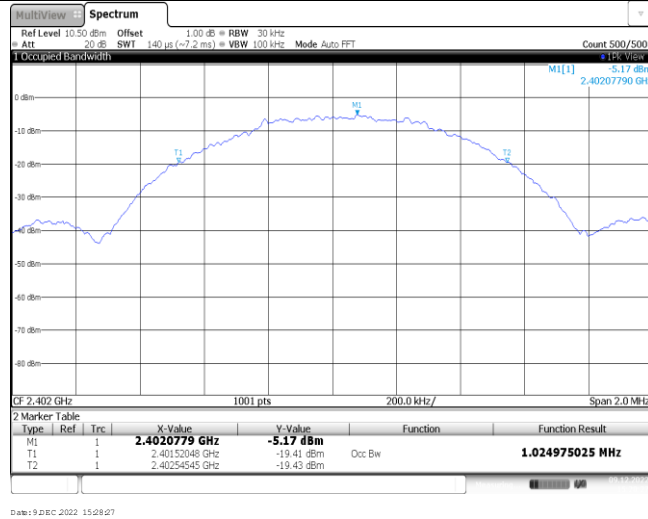
CH39



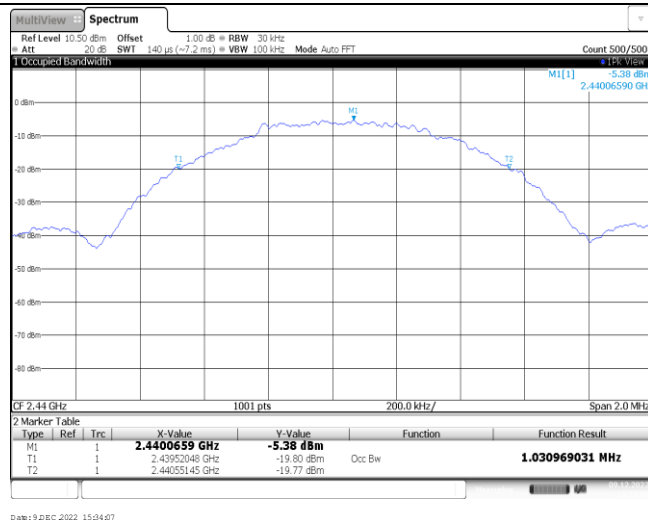
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.02	-	Pass
	19	1.03		
	39	1.03		

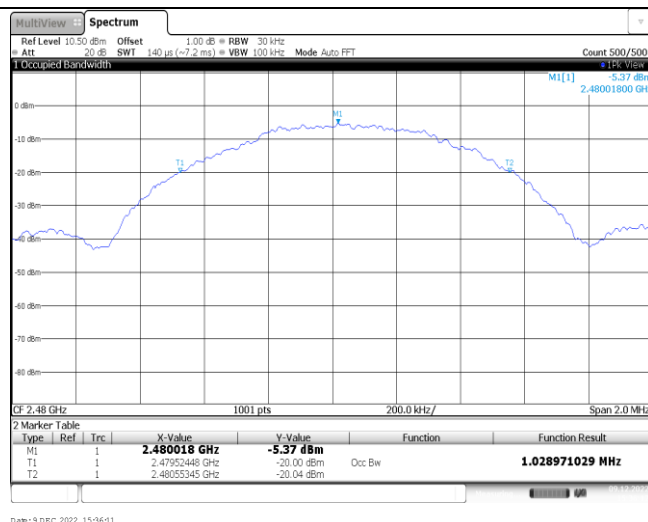
CH00



CH19

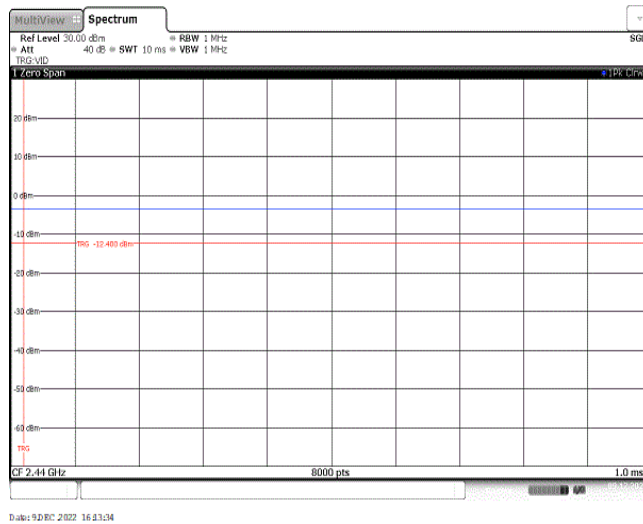


CH39

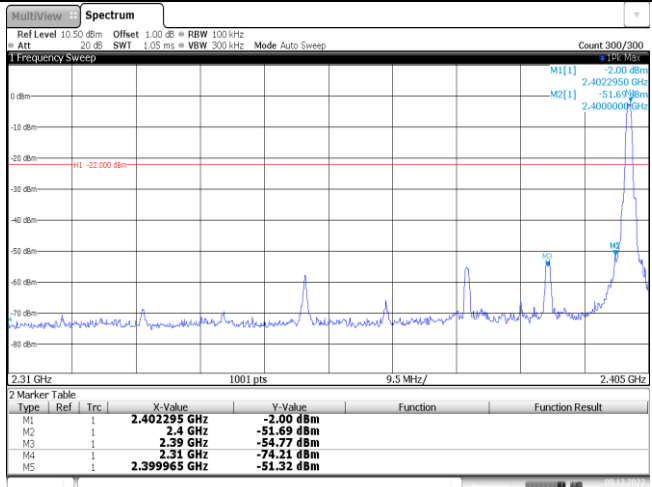
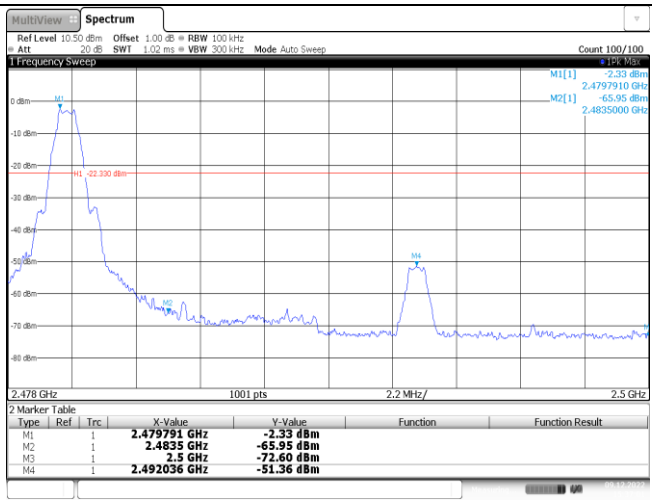


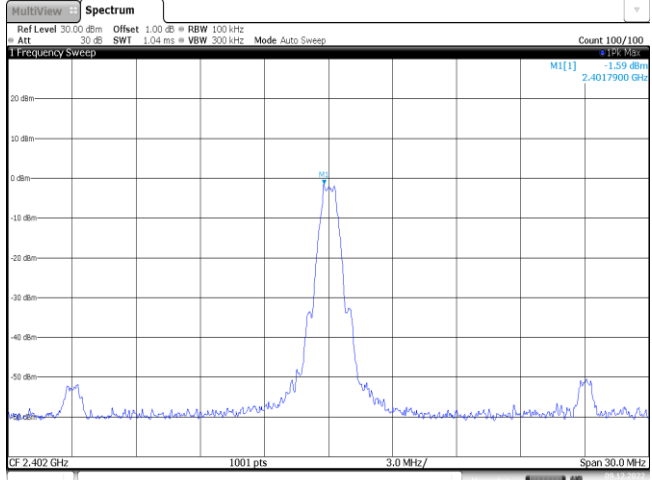
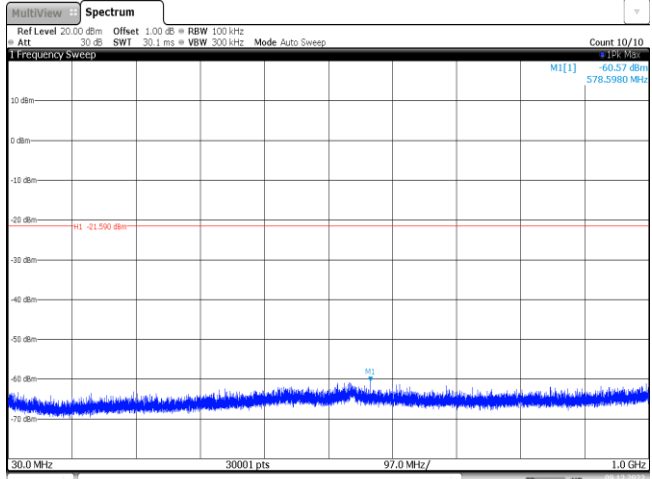
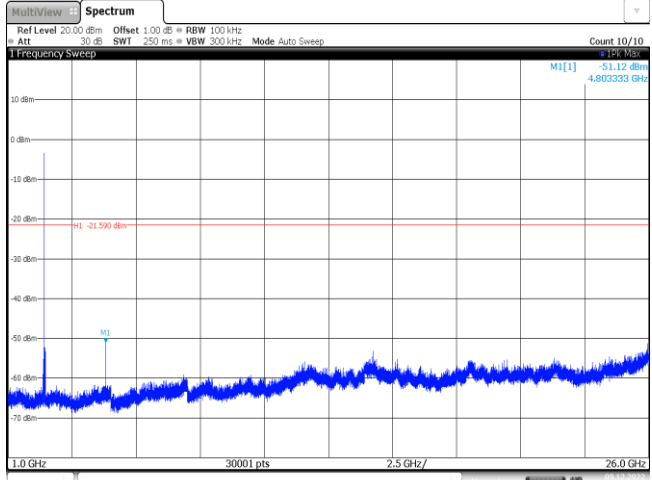
Appendix E: Duty cycle

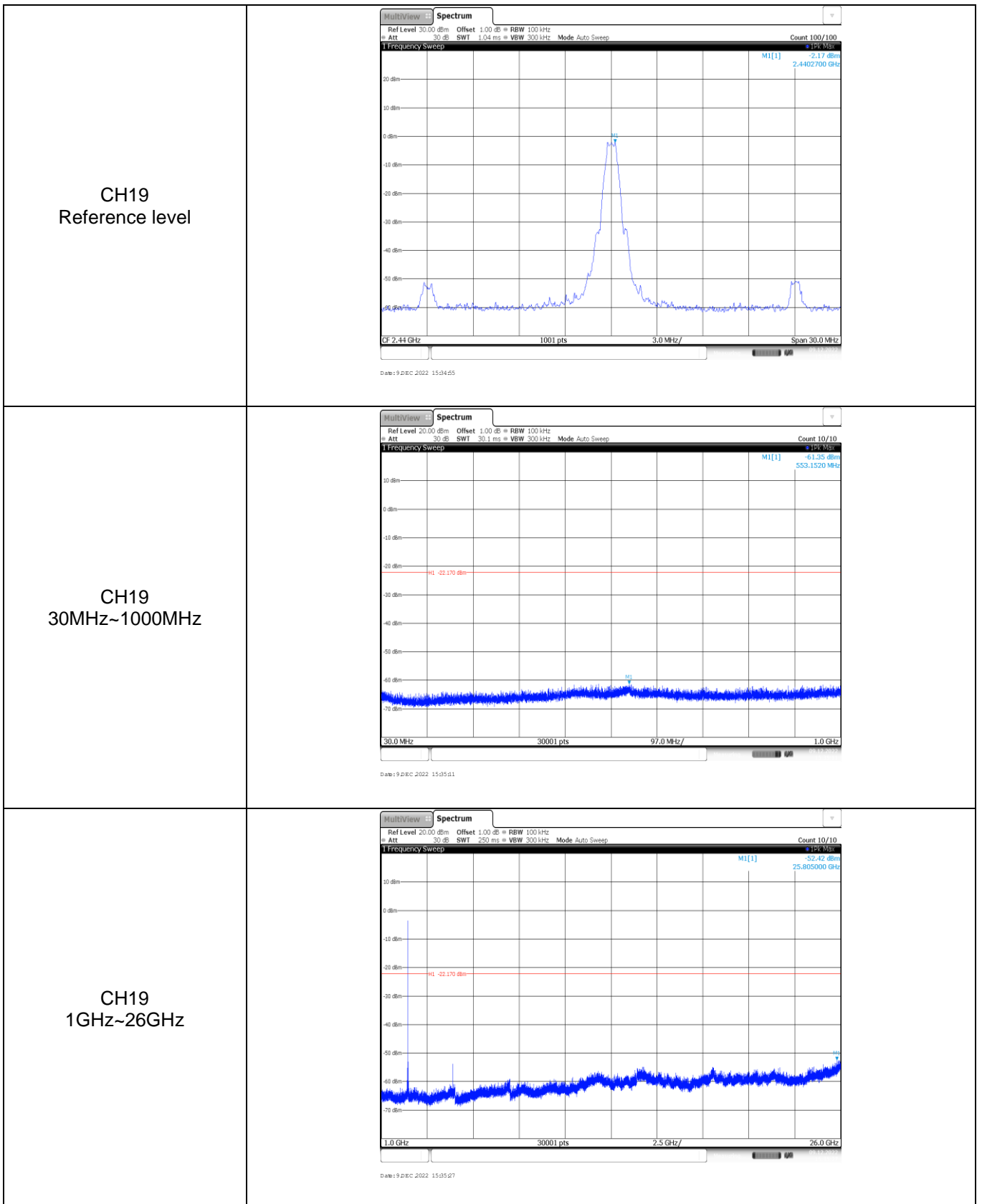
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	1.00	1.00	100%	1

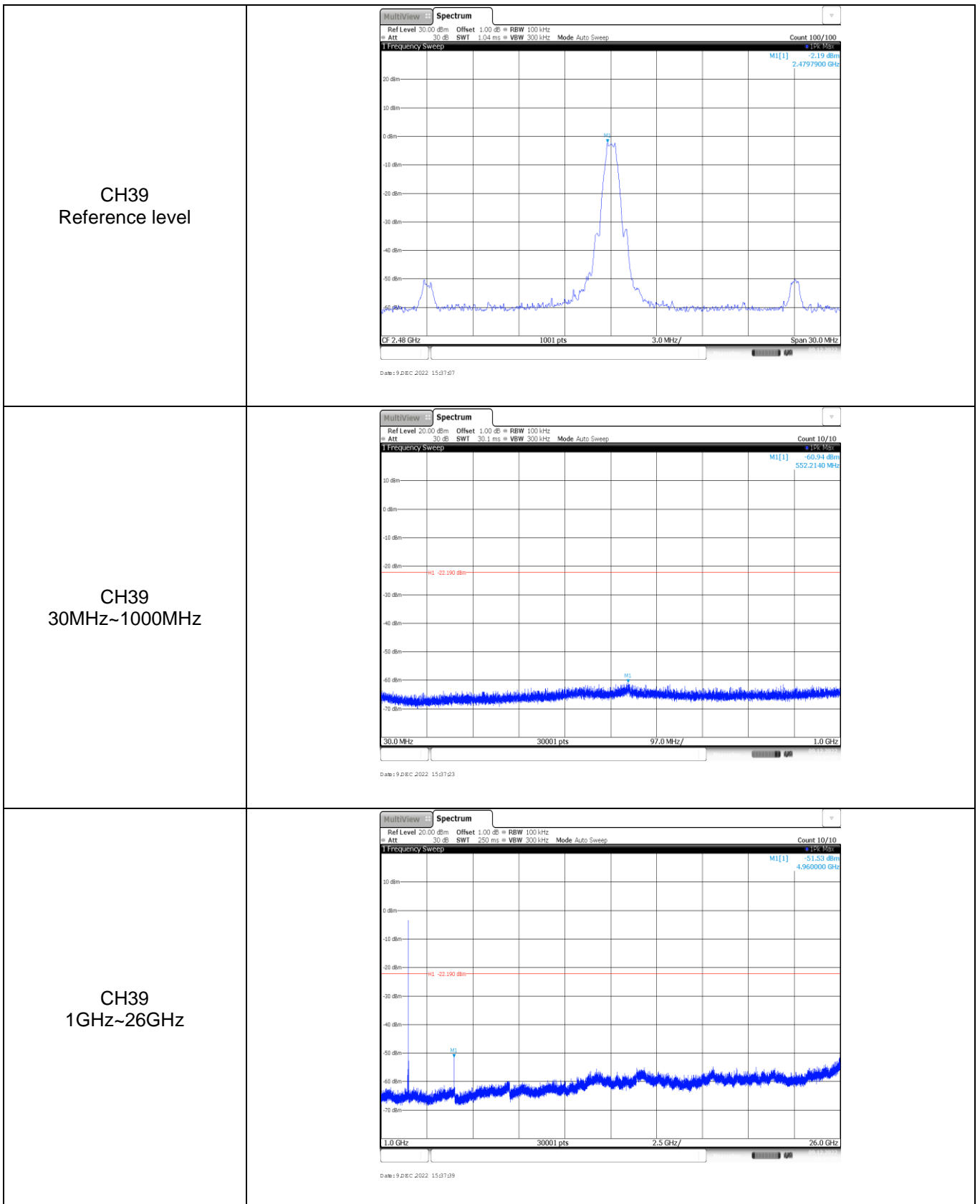


Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
<p style="text-align: center;">CH00</p>	 <table border="1" data-bbox="683 660 1337 761"> <thead> <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> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.402295 GHz</td> <td>-2.00 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-51.69 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-54.77 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-74.21 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399965 GHz</td> <td>-51.32 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p style="font-size: small;">Date: 9/28/2022 15:29:20</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.402295 GHz	-2.00 dBm			M2	1		2.4 GHz	-51.69 dBm			M3	1		2.39 GHz	-54.77 dBm			M4	1		2.31 GHz	-74.21 dBm			M5	1		2.399965 GHz	-51.32 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																					
M1	1		2.402295 GHz	-2.00 dBm																																							
M2	1		2.4 GHz	-51.69 dBm																																							
M3	1		2.39 GHz	-54.77 dBm																																							
M4	1		2.31 GHz	-74.21 dBm																																							
M5	1		2.399965 GHz	-51.32 dBm																																							
<p style="text-align: center;">CH39</p>	 <table border="1" data-bbox="683 1198 1337 1299"> <thead> <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> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.479791 GHz</td> <td>-2.33 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4833 GHz</td> <td>-65.95 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-72.60 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.492036 GHz</td> <td>-51.36 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p style="font-size: small;">Date: 9/28/2022 15:37:20</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479791 GHz	-2.33 dBm			M2	1		2.4833 GHz	-65.95 dBm			M3	1		2.5 GHz	-72.60 dBm			M4	1		2.492036 GHz	-51.36 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																					
M1	1		2.479791 GHz	-2.33 dBm																																							
M2	1		2.4833 GHz	-65.95 dBm																																							
M3	1		2.5 GHz	-72.60 dBm																																							
M4	1		2.492036 GHz	-51.36 dBm																																							

Test Item:	SE
<p>CH00 Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 1.59 dBm 2.4017900 GHz Date: 9 DEC 2022 15:29:29</p>
<p>CH00 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -60.57 dBm 578.5980 MHz M1 -61.500 dBm Date: 9 DEC 2022 15:29:45</p>
<p>CH00 1GHz~26GHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -51.12 dBm 4.805533 GHz M1 -61.500 dBm Date: 9 DEC 2022 15:30:01</p>





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