

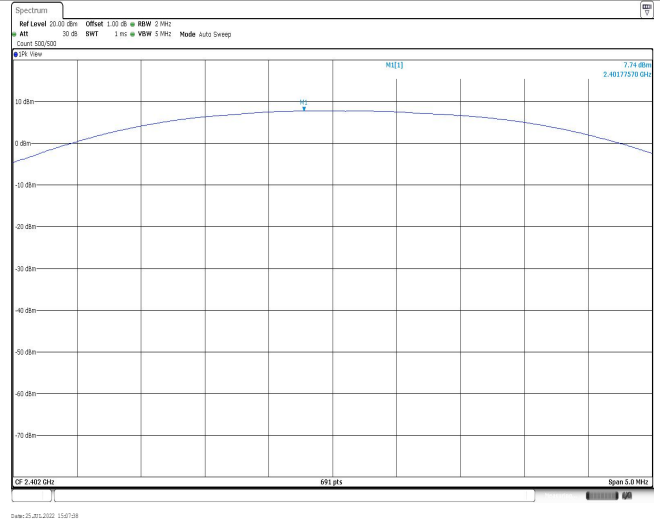
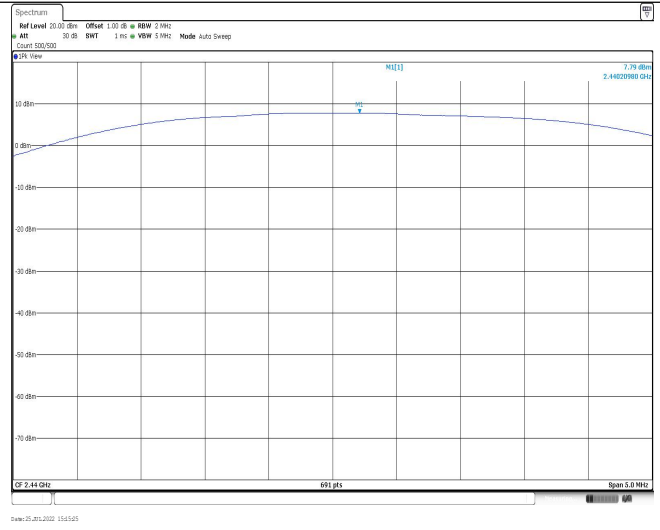
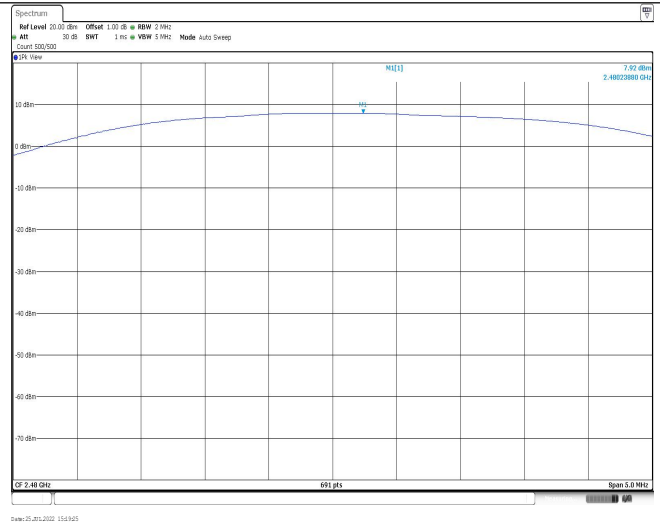
APPENDIX REPORT

Project No.	SHT2207065101EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT22070651003	Model No.	P270
Start test date	2022-07-25	Finish date	2022-07-26
Temperature	24.2°C	Humidity	49%
Test Engineer	Xiaoxiao Li	Auditor	<i>Xiaodong Zhe</i>

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

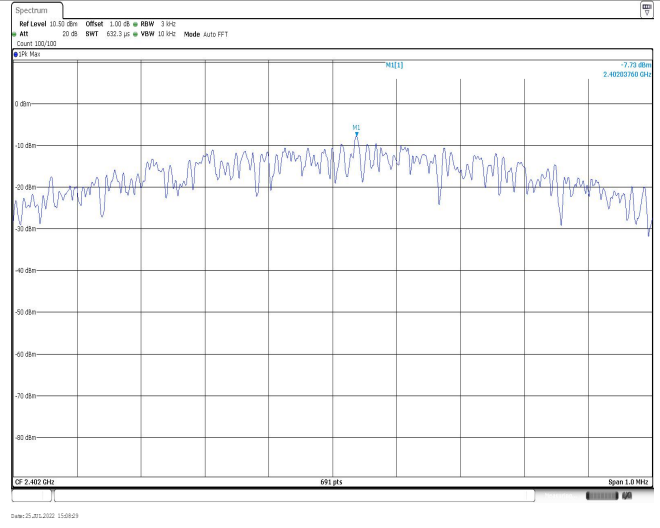
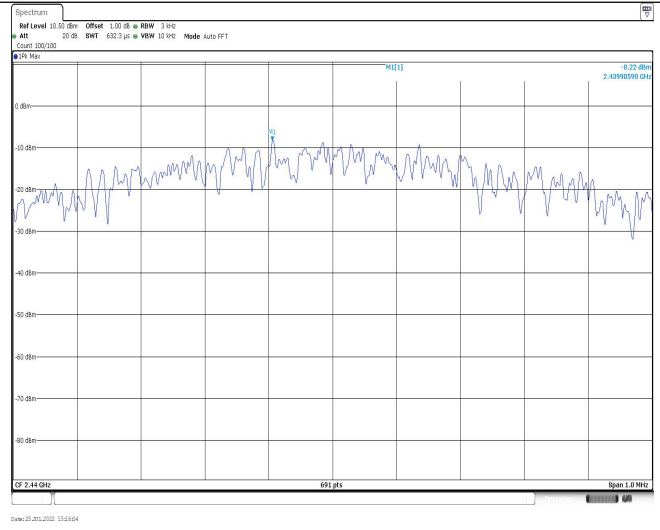
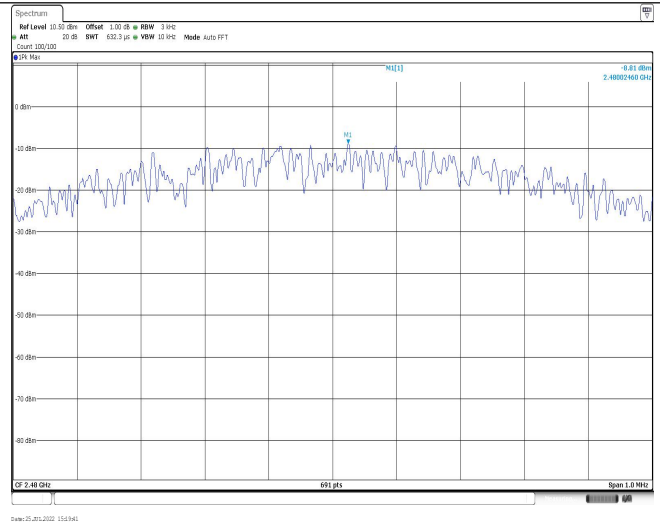
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	7.74	7.72	≤ 30.00	Pass
	19	7.79	7.77		
	39	7.92	7.91		

CH00	
CH19	
CH39	

Appendix B: Power Spectral Density

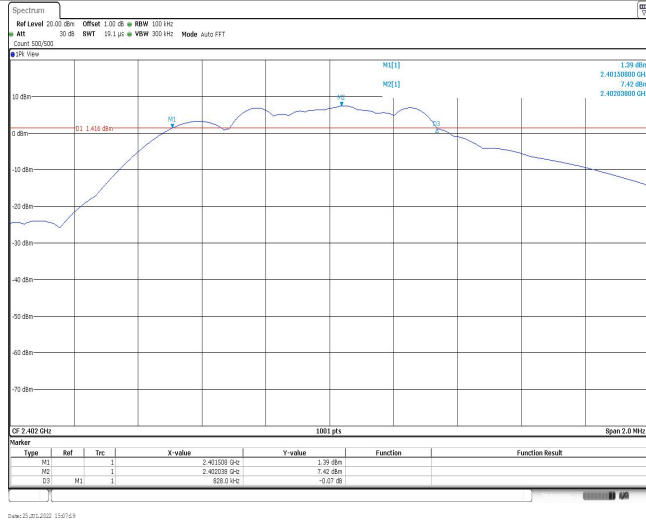
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-7.73	≤8.00	Pass
	19	-8.22		
	39	-8.81		

CH00	 <p>Spectrum plot for CH00. The plot shows a signal centered at 2.402 GHz. The y-axis represents power in dBm, ranging from -80 to 0. The x-axis represents frequency in MHz, with a span of 1.0 MHz. The signal level is indicated as -7.73 dBm. The plot includes a grid and various measurement parameters such as Ref Level, Att, BW, and Span.</p>
CH19	 <p>Spectrum plot for CH19. The plot shows a signal centered at 2.43999 GHz. The y-axis represents power in dBm, ranging from -80 to 0. The x-axis represents frequency in MHz, with a span of 1.0 MHz. The signal level is indicated as -8.22 dBm. The plot includes a grid and various measurement parameters such as Ref Level, Att, BW, and Span.</p>
CH39	 <p>Spectrum plot for CH39. The plot shows a signal centered at 2.48025 GHz. The y-axis represents power in dBm, ranging from -80 to 0. The x-axis represents frequency in MHz, with a span of 1.0 MHz. The signal level is indicated as -8.81 dBm. The plot includes a grid and various measurement parameters such as Ref Level, Att, BW, and Span.</p>

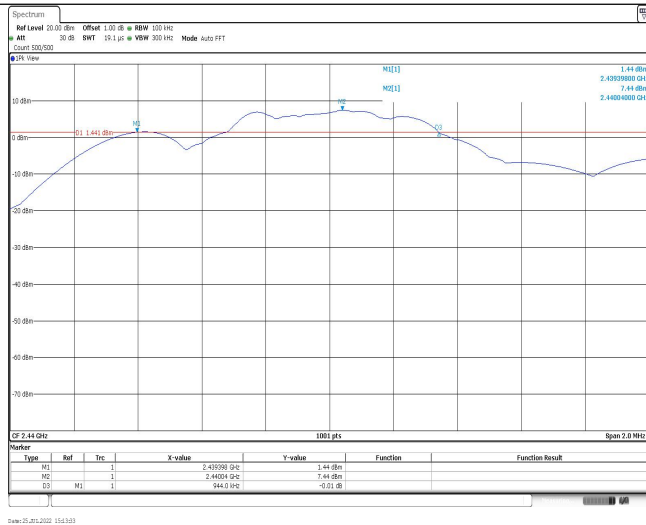
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	828.00	≥500	Pass
	19	944.00		
	39	666.00		

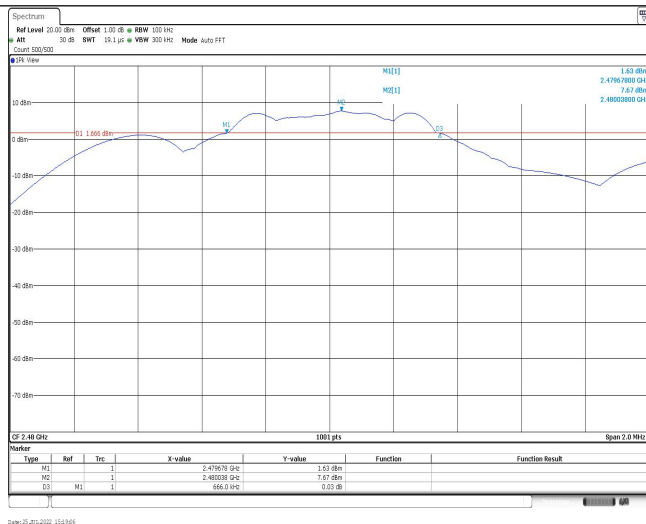
CH00



CH19

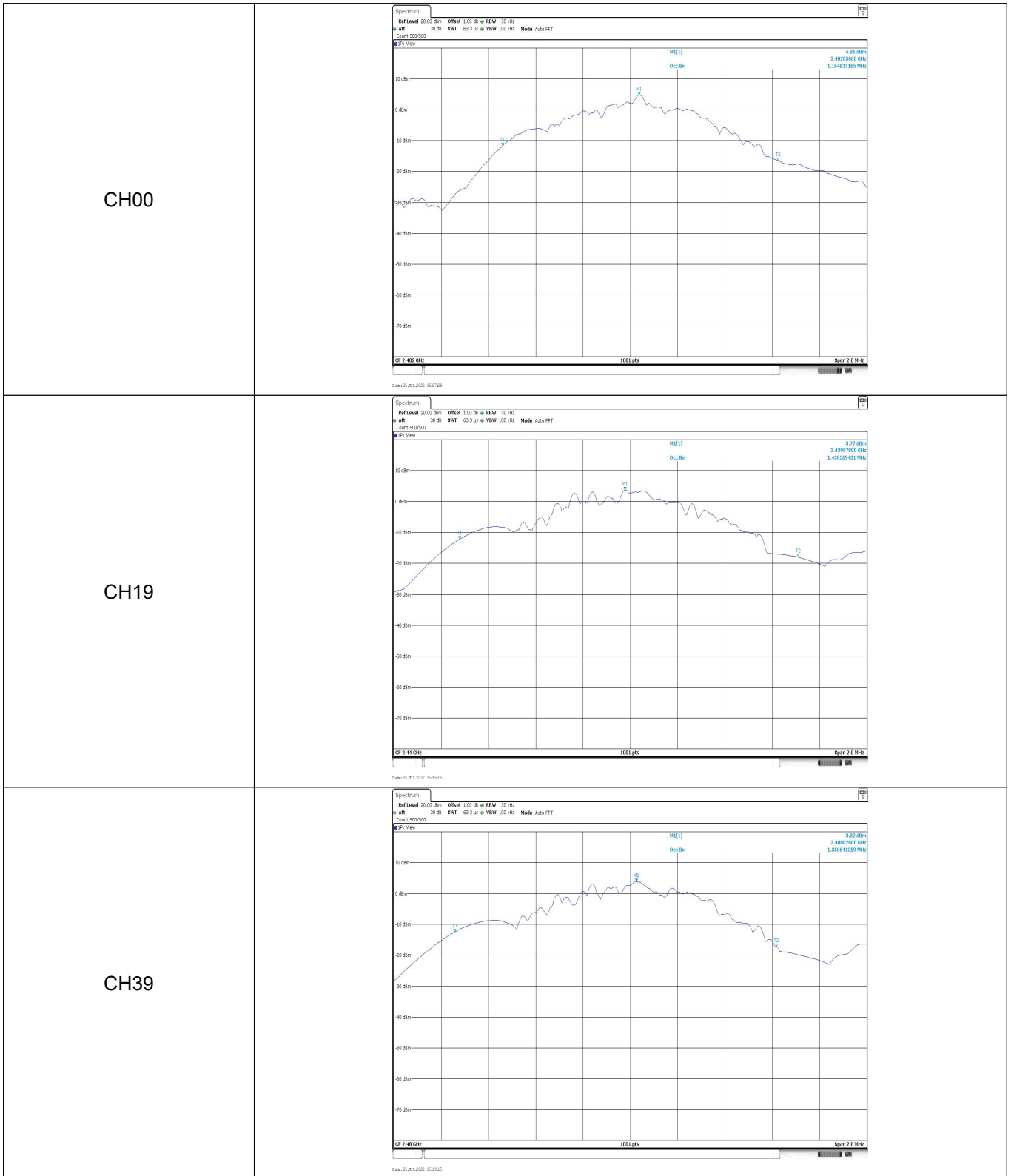


CH39



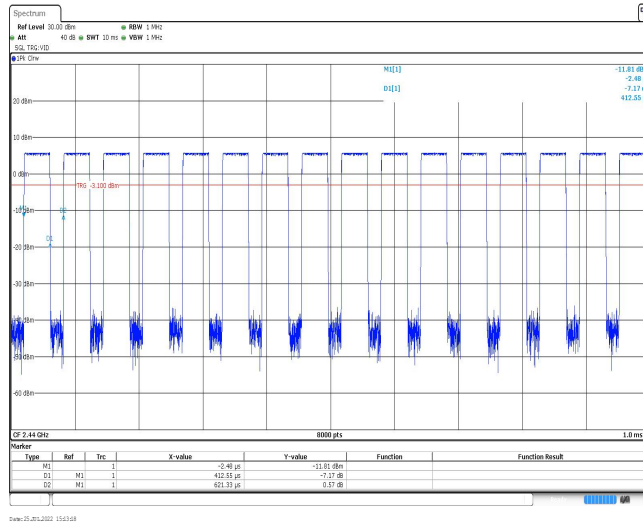
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.17	-	Pass
	19	1.43		
	39	1.36		

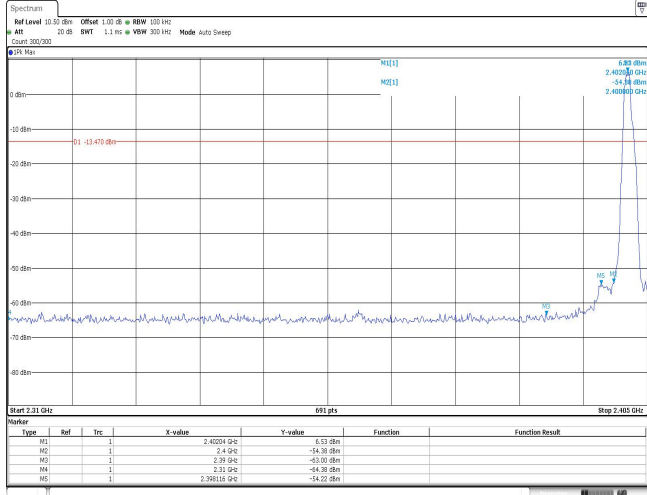
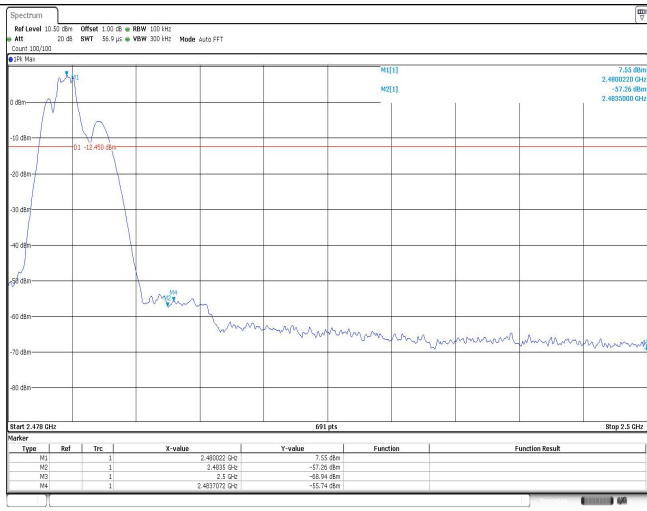


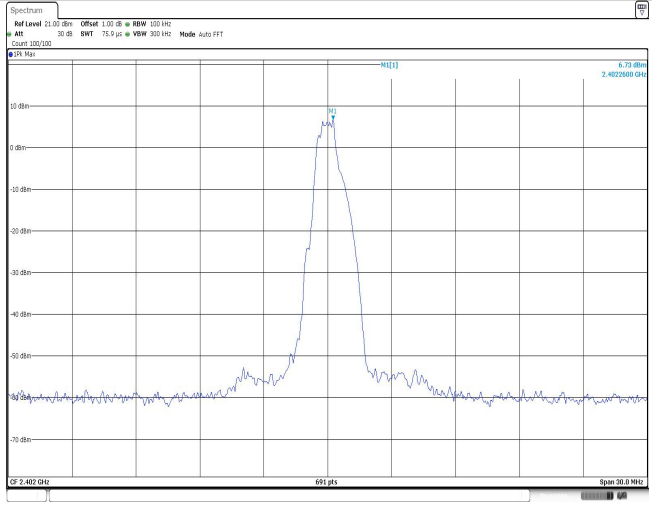
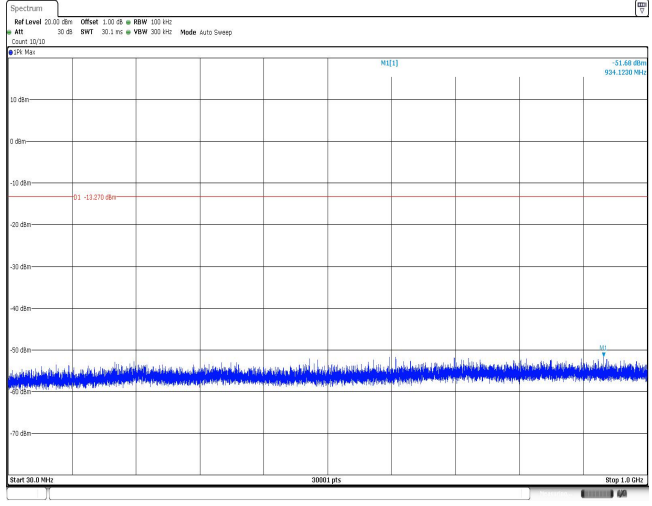
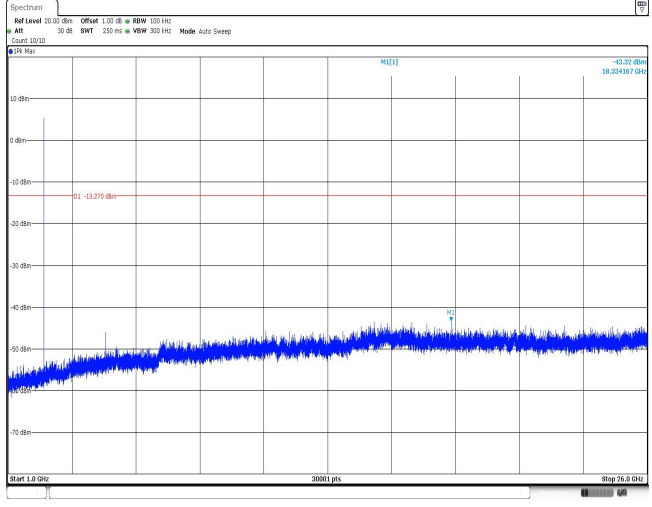
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.41	0.62	66.1%	2.4

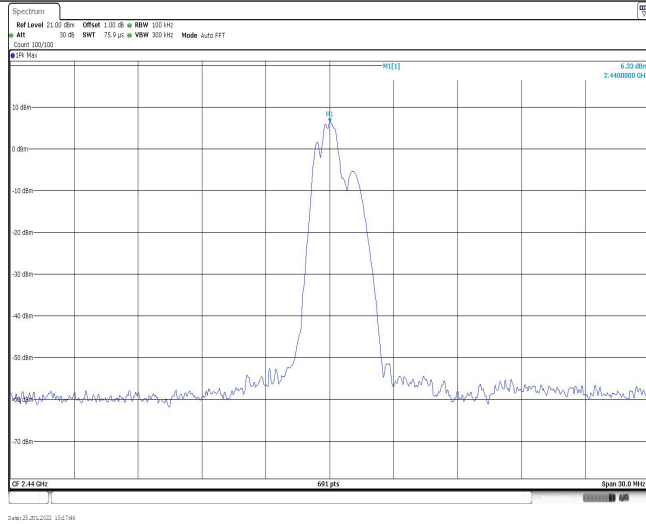


Appendix F: Band edge and Spurious Emissions (conducted)

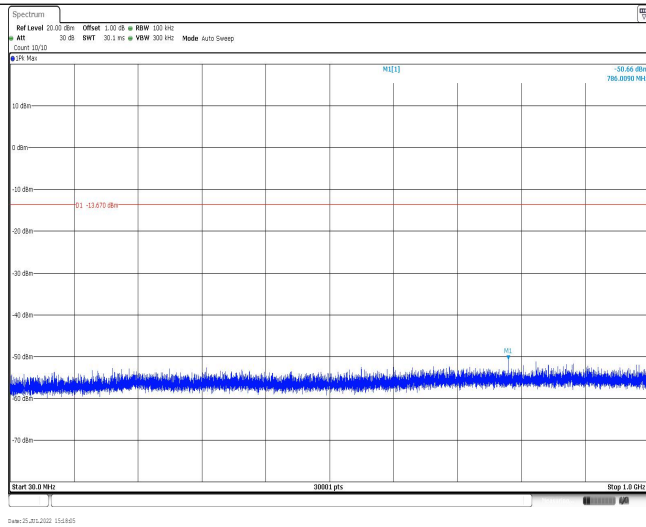
Test Item:	Band edge																																										
<p style="text-align: center;">CH00</p>	 <table border="1" data-bbox="683 698 1332 772"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>2.40204 GHz</td> <td>6.83 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4 GHz</td> <td>-54.58 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.39 GHz</td> <td>-53.58 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.32 GHz</td> <td>-54.58 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td>1</td> <td>2.38115 GHz</td> <td>-54.22 dBm</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.40204 GHz	6.83 dBm			M2	1	1	2.4 GHz	-54.58 dBm			M3	1	1	2.39 GHz	-53.58 dBm			M4	1	1	2.32 GHz	-54.58 dBm			M5	1	1	2.38115 GHz	-54.22 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																					
M1	1	1	2.40204 GHz	6.83 dBm																																							
M2	1	1	2.4 GHz	-54.58 dBm																																							
M3	1	1	2.39 GHz	-53.58 dBm																																							
M4	1	1	2.32 GHz	-54.58 dBm																																							
M5	1	1	2.38115 GHz	-54.22 dBm																																							
<p style="text-align: center;">CH39</p>	 <table border="1" data-bbox="683 1220 1332 1310"> <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>1</td> <td>2.48002 GHz</td> <td>7.55 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4815 GHz</td> <td>-51.58 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.4 GHz</td> <td>-58.58 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.4837072 GHz</td> <td>-55.74 dBm</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.48002 GHz	7.55 dBm			M2	1	1	2.4815 GHz	-51.58 dBm			M3	1	1	2.4 GHz	-58.58 dBm			M4	1	1	2.4837072 GHz	-55.74 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																					
M1	1	1	2.48002 GHz	7.55 dBm																																							
M2	1	1	2.4815 GHz	-51.58 dBm																																							
M3	1	1	2.4 GHz	-58.58 dBm																																							
M4	1	1	2.4837072 GHz	-55.74 dBm																																							

Test Item:	SE
<p>CH00 Reference level</p>	
<p>CH00 30MHz~1000MHz</p>	
<p>CH00 1GHz~26GHz</p>	

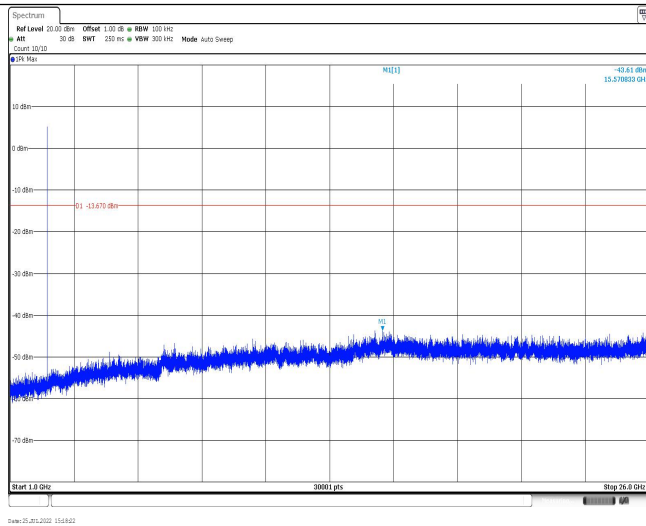
CH19
Reference level

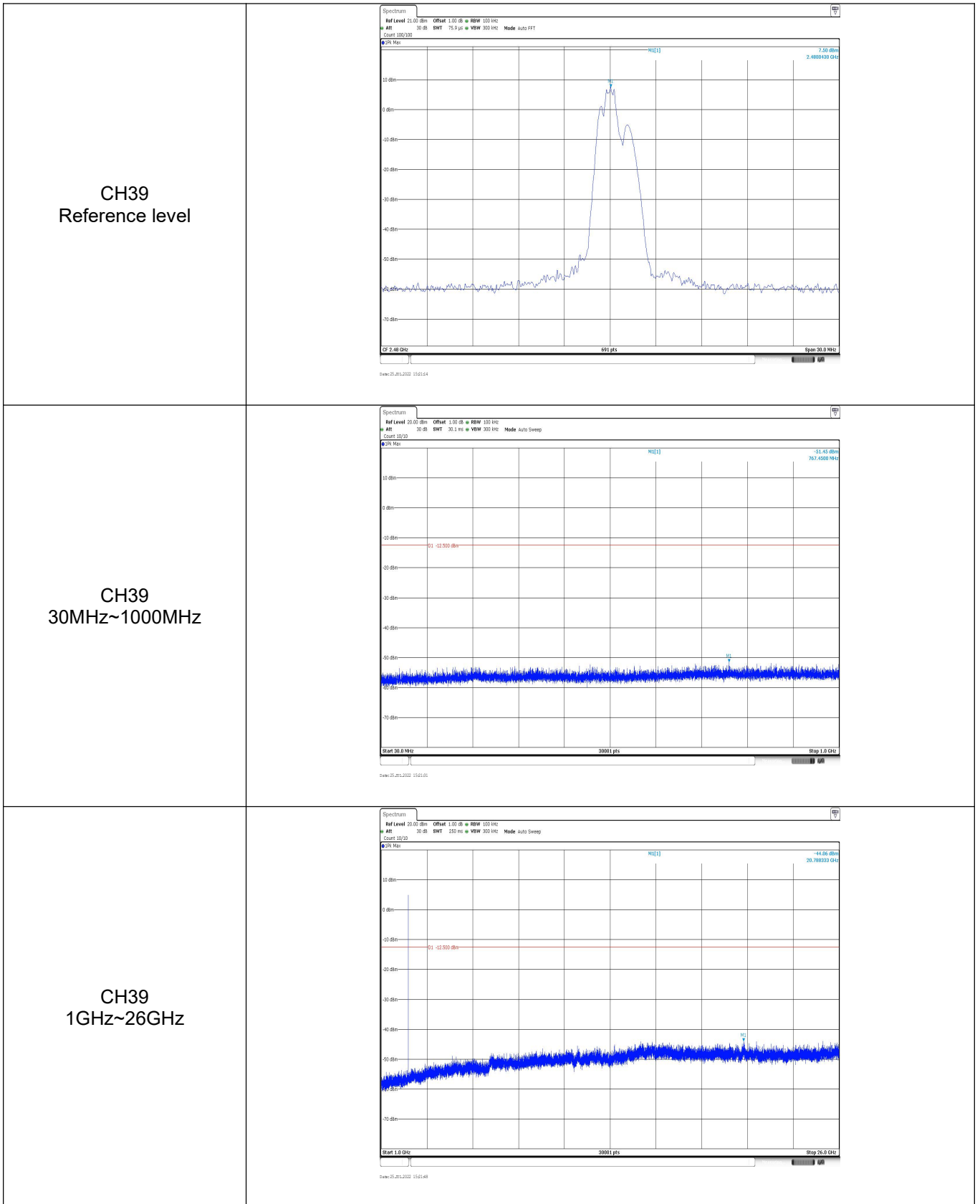


CH19
30MHz~1000MHz



CH19
1GHz~26GHz





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