

APPENDIX REPORT

Project No.	SHT2005010201EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT20050102001	Model No.	L14WB2BK
Start test date	2020/6/1	Finish date	2020/6/1
Temperature	25°C	Humidity	50%
Test Engineer	JiongSheng.Feng	Auditor	<i>William.wang</i>

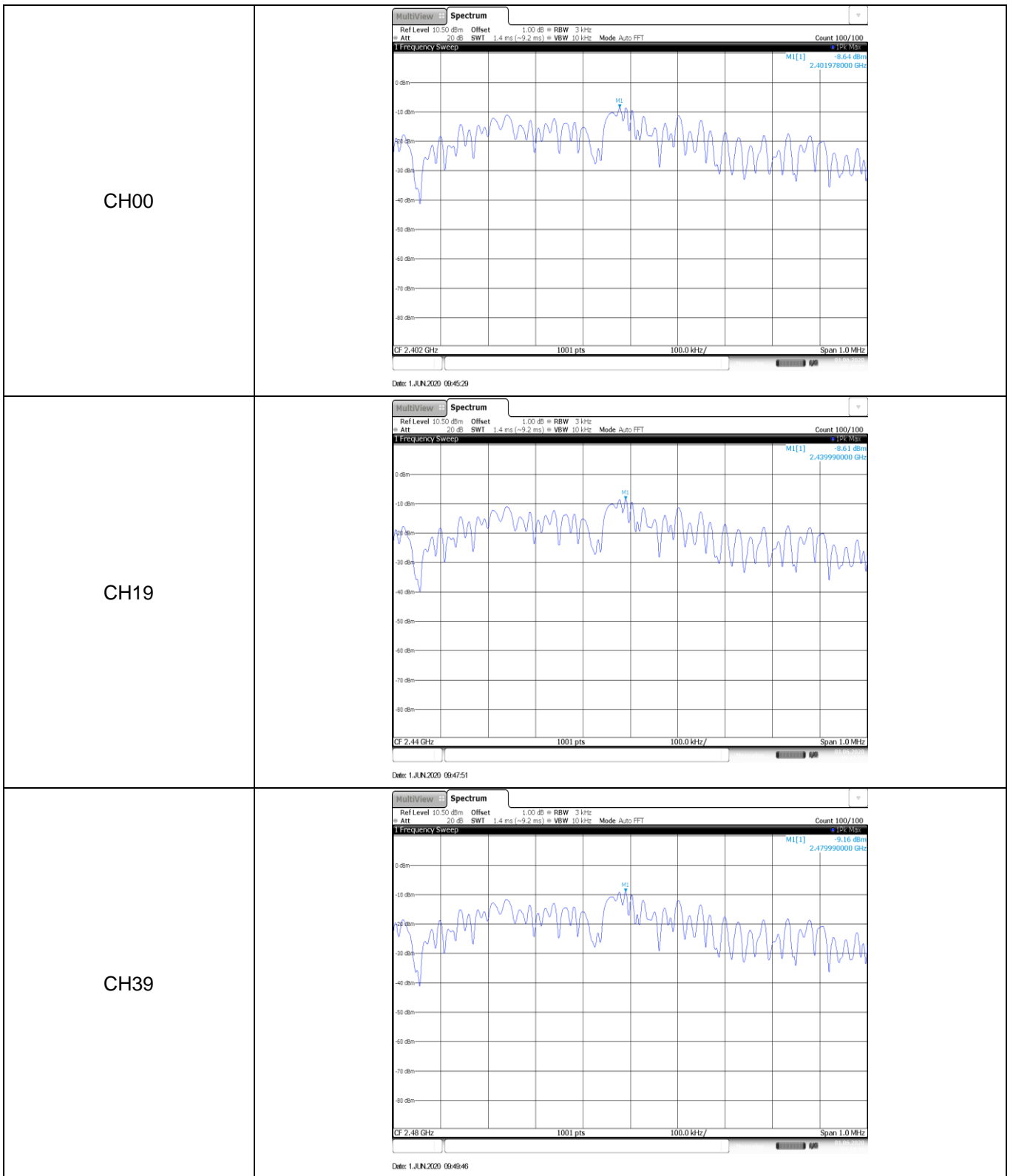
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	8.86	8.82	≤30.00	Pass
	19	8.79	8.77		
	39	8.33	8.31		

Appendix B: Power Spectral Density

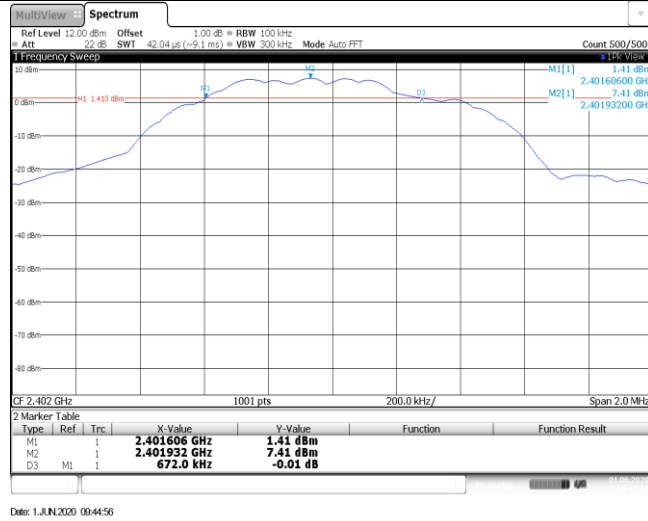
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-8.64	≤8.00	Pass
	19	-8.61		
	39	-9.16		



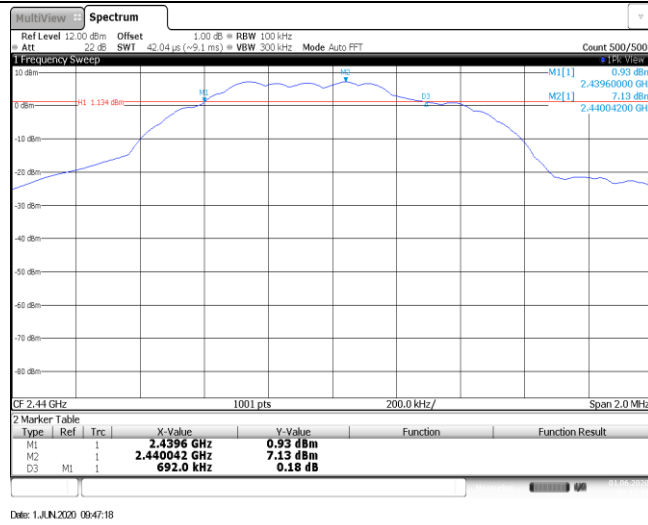
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	672.00	≥500	Pass
	19	692.00		
	39	686.00		

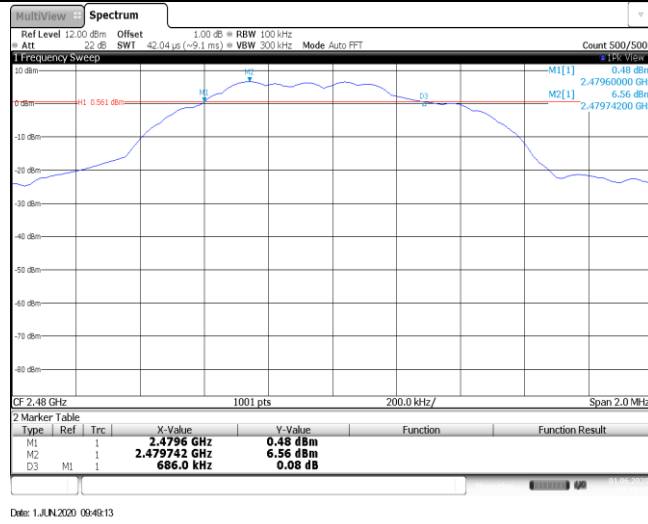
CH00



CH19

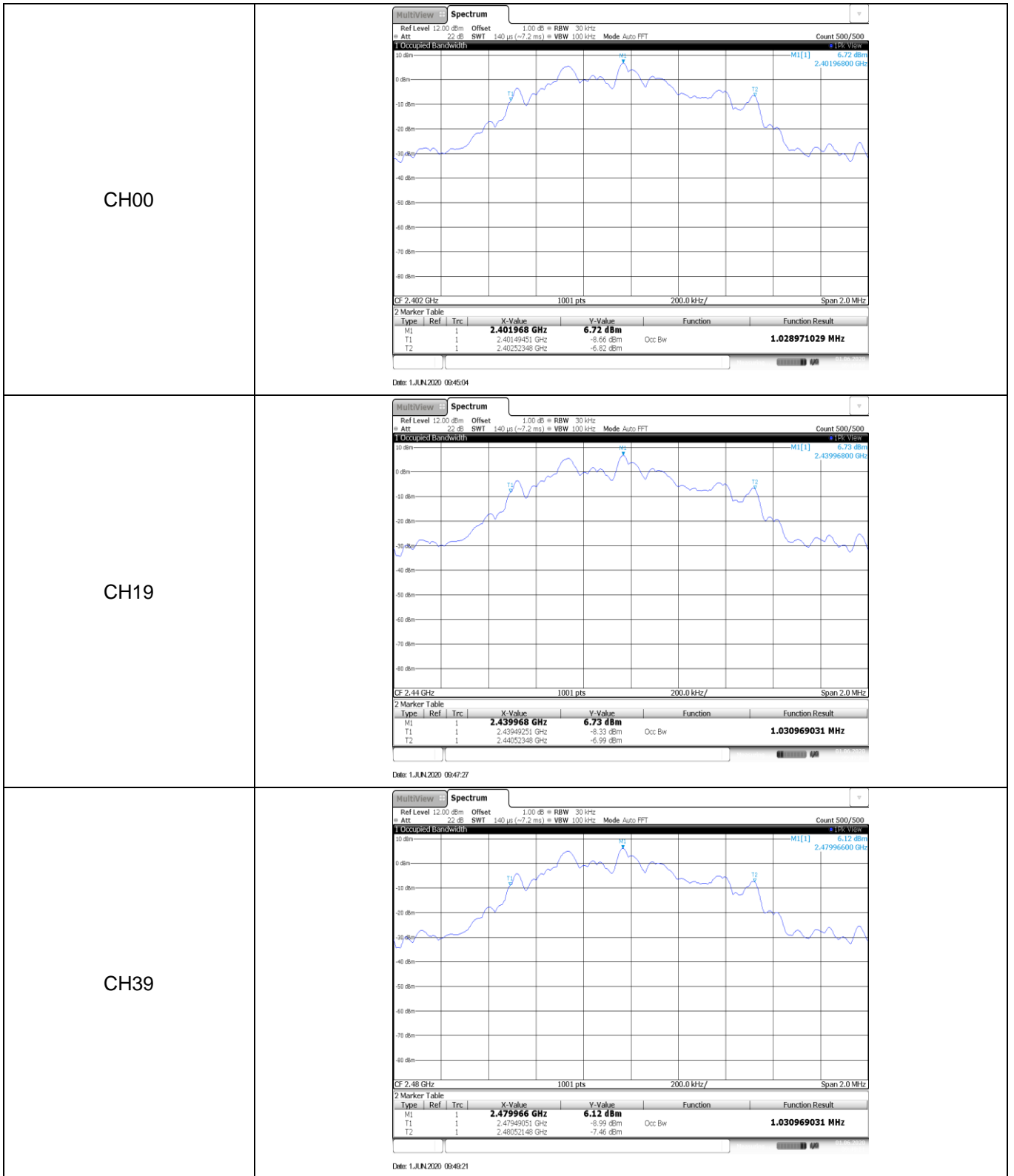


CH39



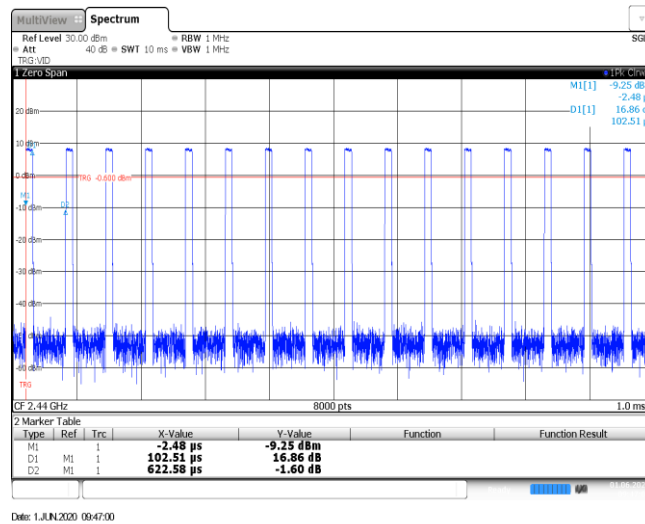
Appendix D: 99% Occupied Bandwidth

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

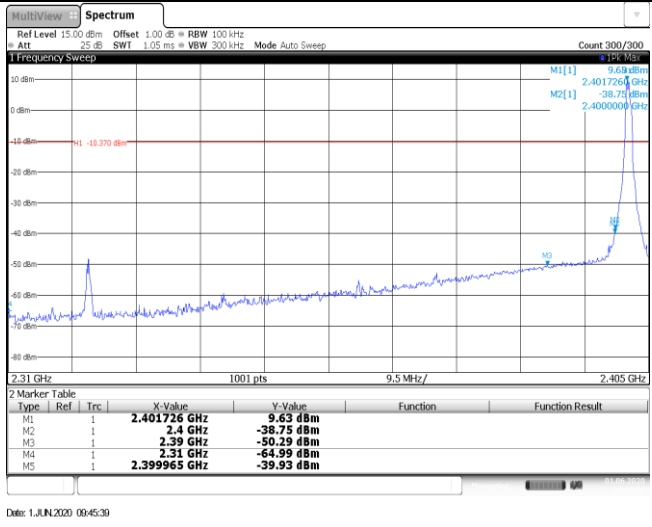
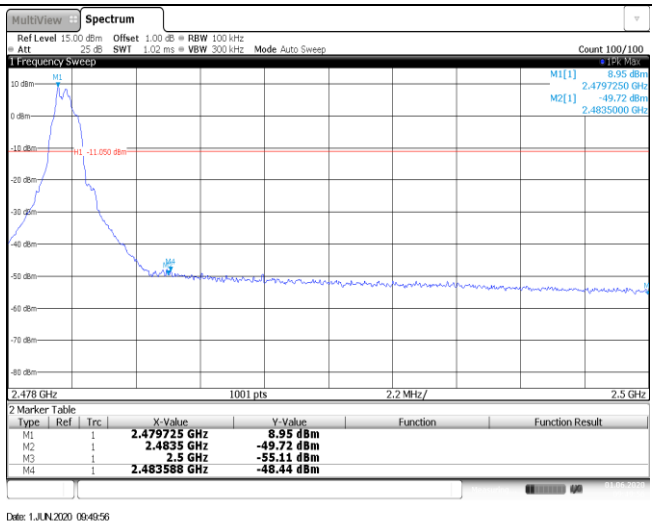


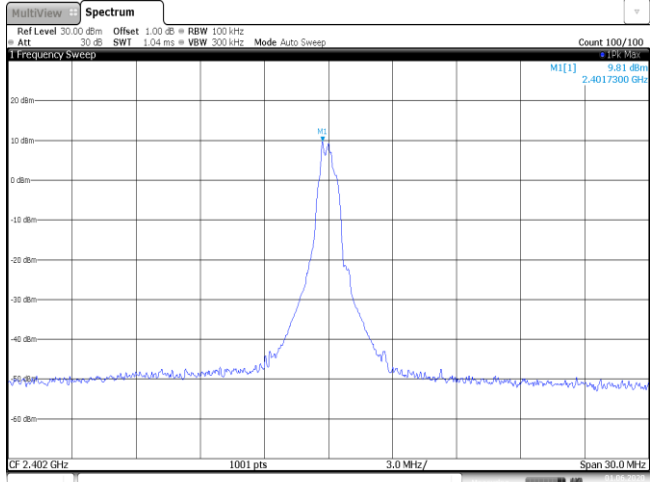
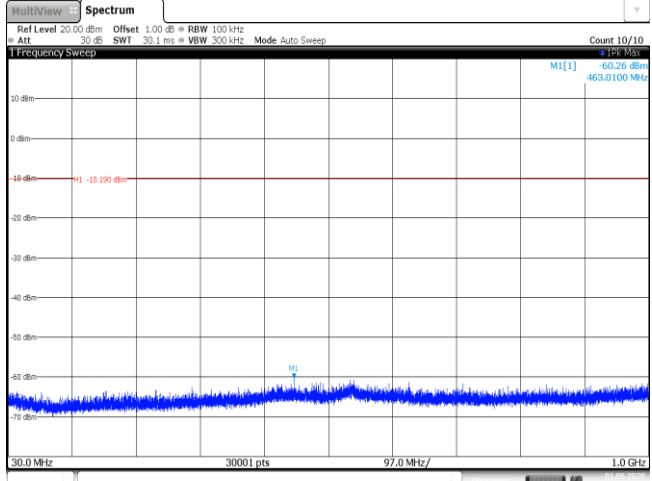
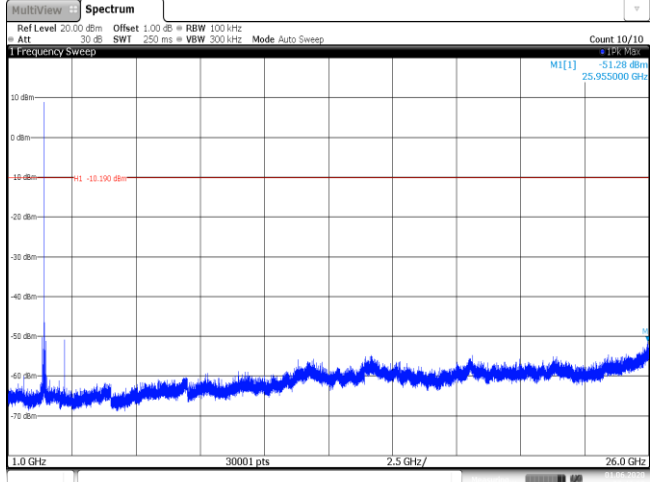
Appendix E: Duty cycle

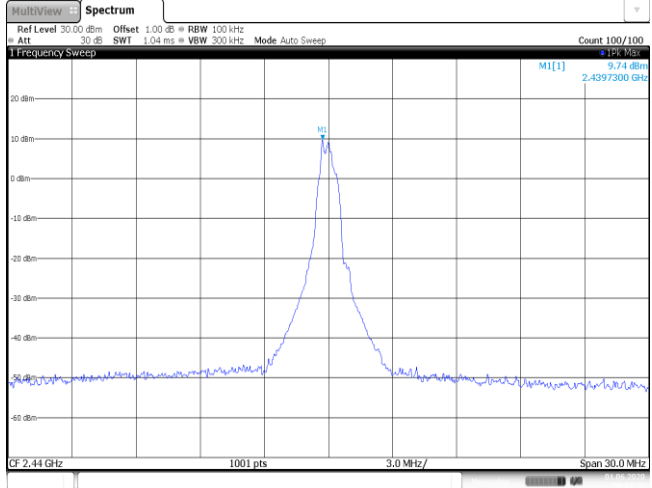
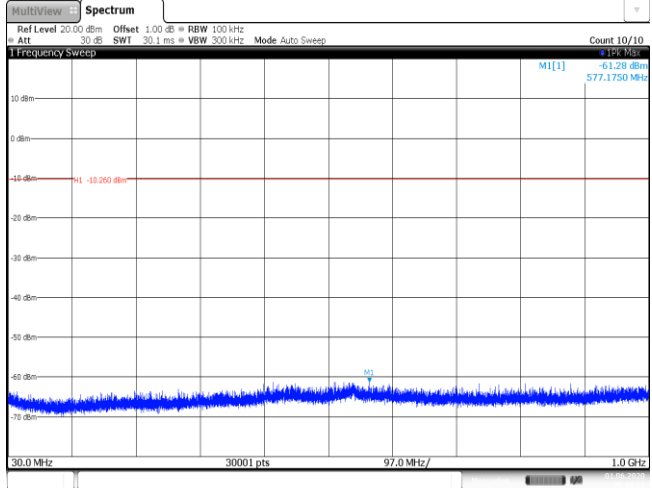
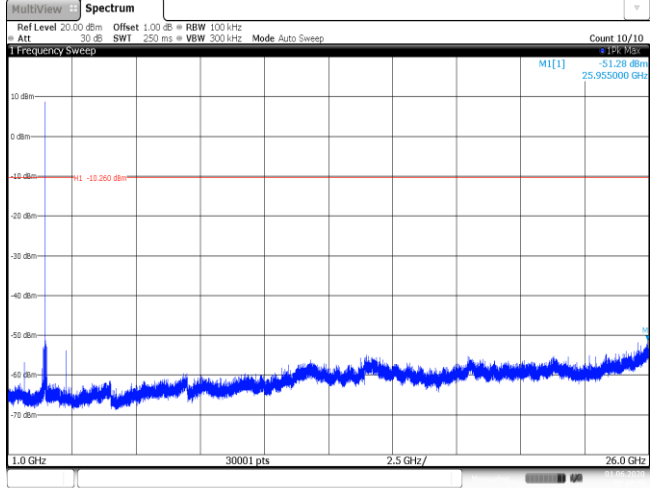
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.10	0.62	16.1%	10

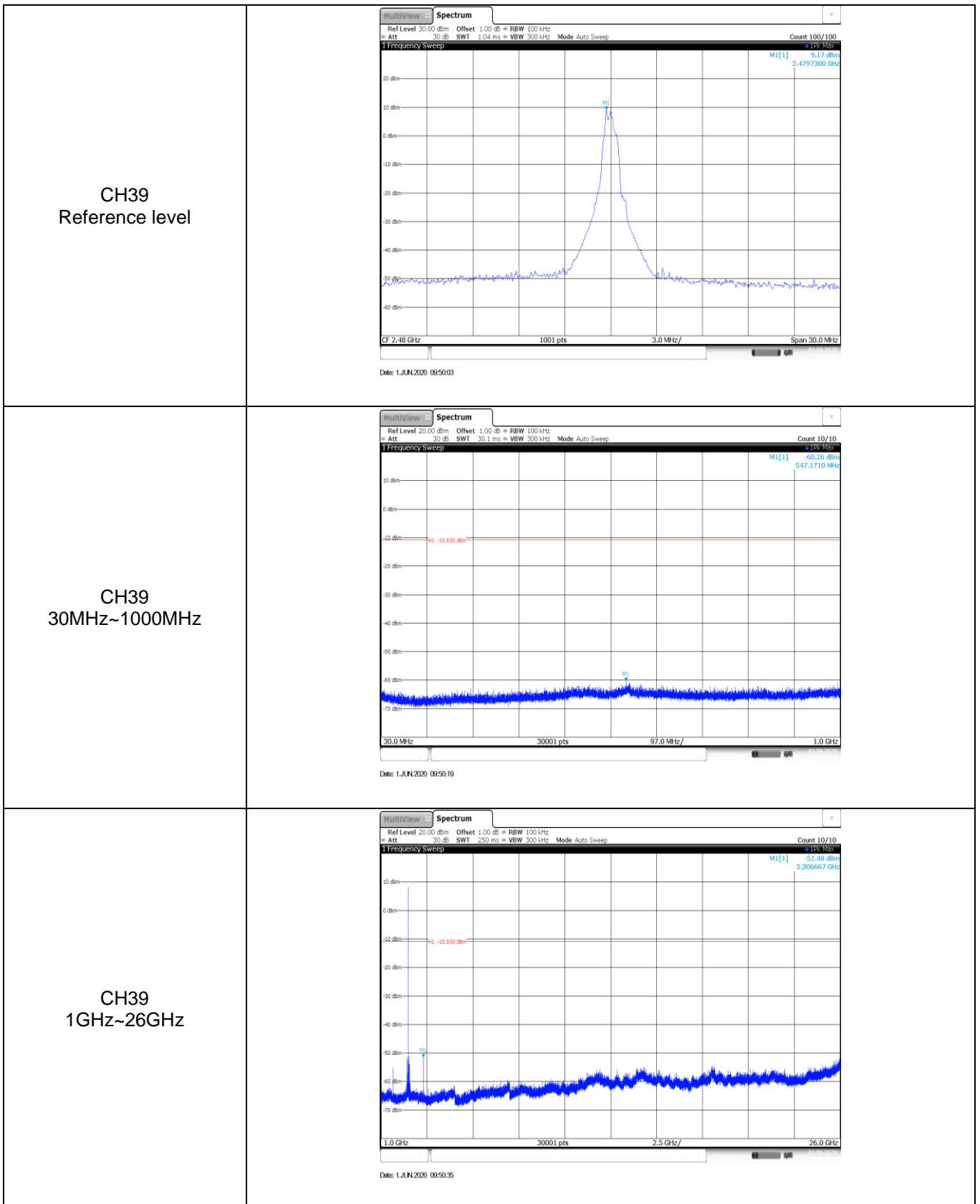


Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
<p style="text-align: center;">CH00</p>	 <p>2 Marker Table</p> <table border="1"> <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>2.401726 GHz</td> <td>9.63 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-38.75 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-50.29 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-64.99 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399965 GHz</td> <td>-39.93 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 1.JUN.2020 09:45:30</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401726 GHz	9.63 dBm			M2	1		2.4 GHz	-38.75 dBm			M3	1		2.39 GHz	-50.29 dBm			M4	1		2.31 GHz	-64.99 dBm			M5	1		2.399965 GHz	-39.93 dBm		
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Test Item:	SE
<p>CH00 Reference level</p>	 <p>Date: 1.JUN.2020 09:45:46</p>
<p>CH00 30MHz~1000MHz</p>	 <p>Date: 1.JUN.2020 09:46:02</p>
<p>CH00 1GHz~26GHz</p>	 <p>Date: 1.JUN.2020 09:46:18</p>

<p>CH19 Reference level</p>	 <p>MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Count 100/100 Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep 1 Frequency Sweep M1[1] 9.74 dBm 2.4397300 GHz CF 2.44 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 1.JUN.2020 00:47:58</p>
<p>CH19 30MHz~1000MHz</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Count 10/10 Att 30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep 1 Frequency Sweep M1[1] -61.28 dBm 577.1750 MHz -10.260 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 1.JUN.2020 00:48:14</p>
<p>CH19 1GHz~26GHz</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Count 10/10 Att 30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep 1 Frequency Sweep M1[1] -51.28 dBm 25.955000 GHz -10.260 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 1.JUN.2020 00:48:30</p>



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