

APPENDIX REPORT

Project No.	SHT2010016101EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT20100161009	Model No.	B60 Pro
Start test date	2020/10/13	Finish date	2020/10/13
Temperature	25°C	Humidity	50%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhu

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	4.98	4.97	≤ 30.00	Pass
	19	4.70	4.69		
	39	4.13	4.11		

Appendix B: Power Spectral Density

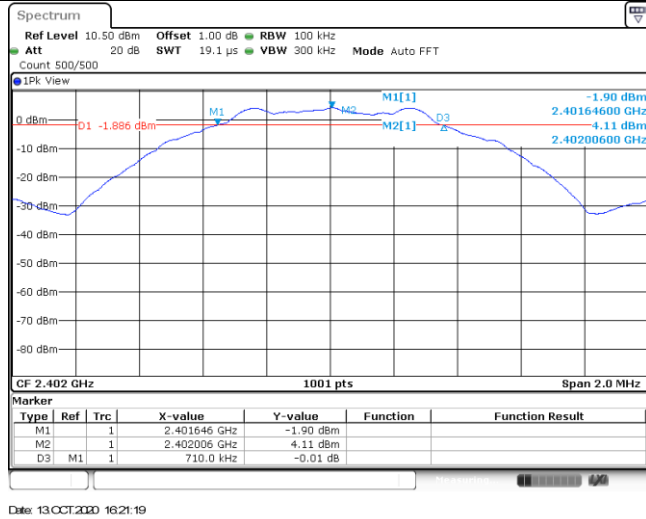
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-10.26	≤8.00	Pass
	19	-10.55		
	39	-11.10		

<p>CH00</p>	<p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 20 dB SWT 632.3 μs VBW 10 kHz Mode Auto FFT Count 100/100 IPK Max M1[1] -10.26 dBm 2.40198260 GHz CF 2.402 GHz 691 pts Span 1.0 MHz Date: 13 OCT 2020 16:21:51</p>
<p>CH19</p>	<p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 20 dB SWT 632.3 μs VBW 10 kHz Mode Auto FFT Count 100/100 IPK Max M1[1] -10.55 dBm 2.43998260 GHz CF 2.44 GHz 691 pts Span 1.0 MHz Date: 13 OCT 2020 16:24:05</p>
<p>CH39</p>	<p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 20 dB SWT 632.3 μs VBW 10 kHz Mode Auto FFT Count 100/100 IPK Max M1[1] -11.10 dBm 2.47998260 GHz CF 2.48 GHz 691 pts Span 1.0 MHz Date: 13 OCT 2020 16:25:44</p>

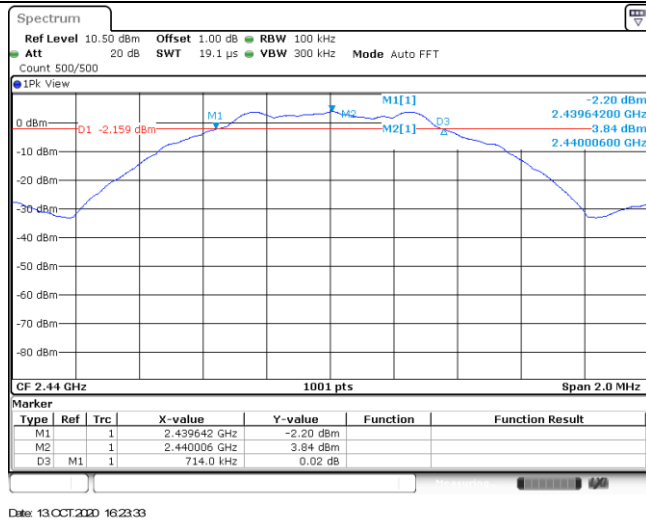
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	710.00	≥500	Pass
	19	714.00		
	39	710.00		

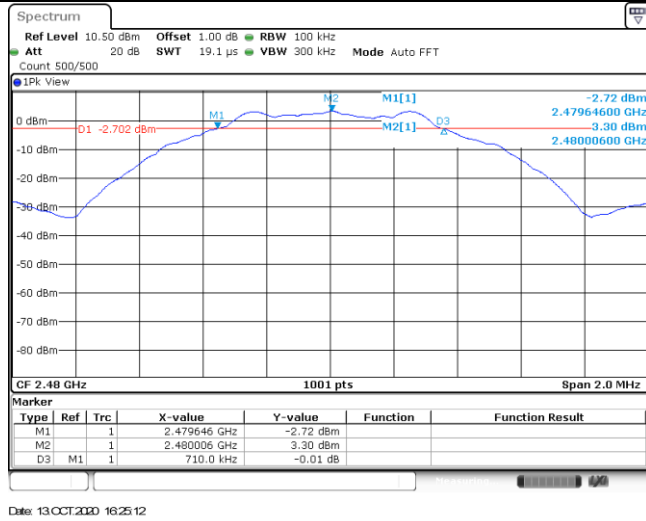
CH00



CH19



CH39



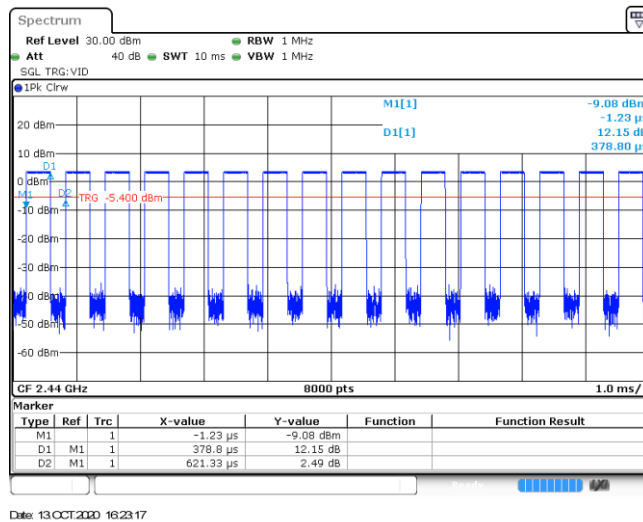
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.06	-	Pass
	19	1.06		
	39	1.05		

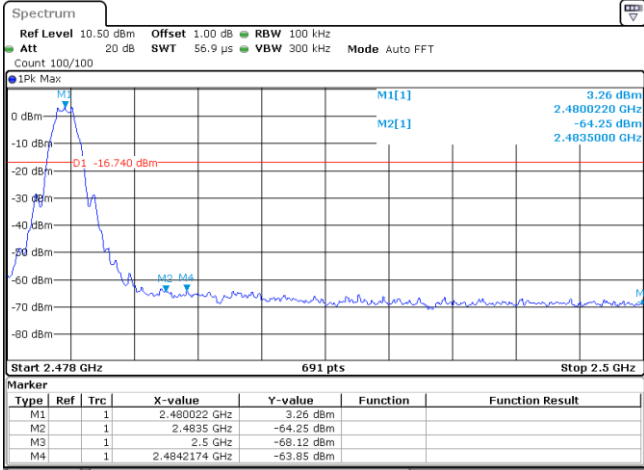
<p>CH00</p>	<p>Date: 13 OCT 2020 16:21:27</p>
<p>CH19</p>	<p>Date: 13 OCT 2020 16:23:41</p>
<p>CH39</p>	<p>Date: 13 OCT 2020 16:25:20</p>

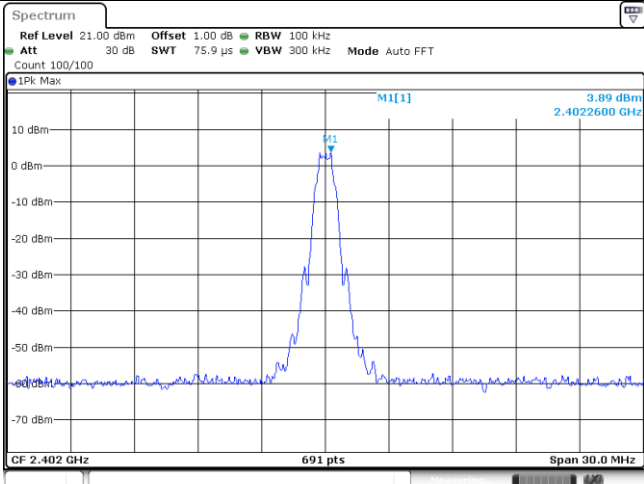
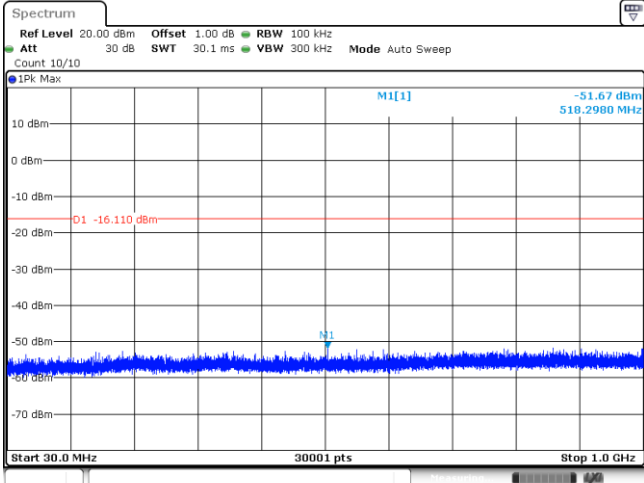
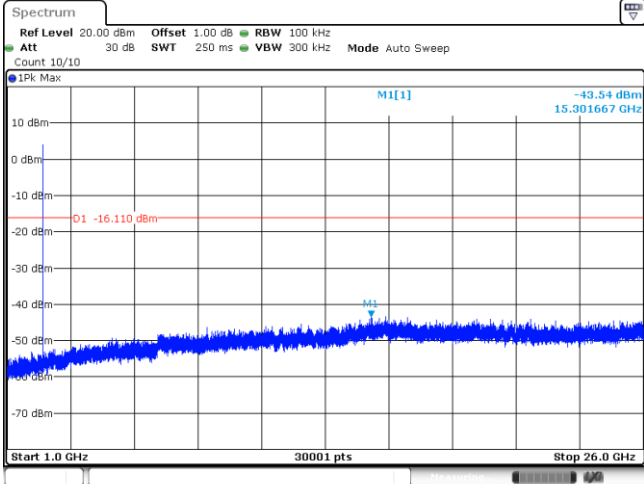
Appendix E: Duty cycle

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

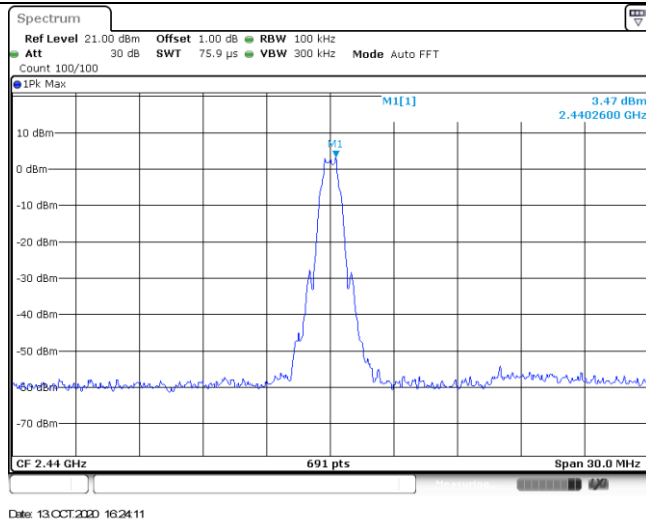


Appendix F: Band edge and Spurious Emissions (conducted)

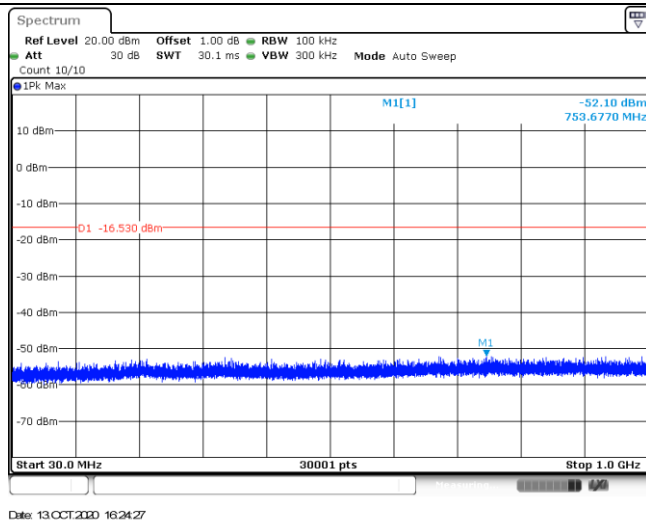
Test Item:	Band edge																																										
CH00	 <p>Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1Pk Max</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.40232 GHz</td> <td>4.04 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-56.75 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-65.03 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-64.59 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399906 GHz</td> <td>-55.29 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13 OCT 2020 16:22:01</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40232 GHz	4.04 dBm			M2	1		2.4 GHz	-56.75 dBm			M3	1		2.39 GHz	-65.03 dBm			M4	1		2.31 GHz	-64.59 dBm			M5	1		2.399906 GHz	-55.29 dBm		
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Test Item:	SE
<p>CH00 Reference level</p>	 <p>CF 2.402 GHz 691 pts Span 30.0 MHz</p> <p>Date: 13.OCT.2020 16:22:09</p>
<p>CH00 30MHz~1000MHz</p>	 <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 13.OCT.2020 16:22:25</p>
<p>CH00 1GHz~26GHz</p>	 <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 13.OCT.2020 16:22:41</p>

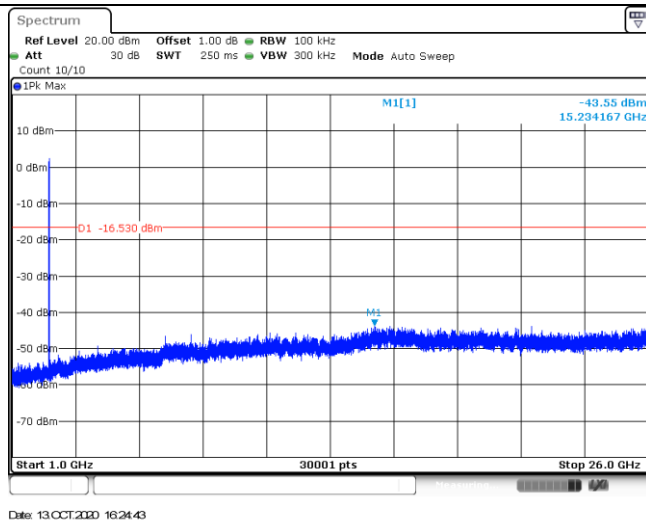
CH19
Reference level



CH19
30MHz~1000MHz



CH19
1GHz~26GHz



<p>CH39 Reference level</p>	<p>Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 IPK Max M1[1] 3.13 dBm 2.4802600 GHz CF 2.48 GHz 691 pts Span 30.0 MHz Date: 13 OCT 2020 16:28:00</p>
<p>CH39 30MHz~1000MHz</p>	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPK Max M1[1] -51.86 dBm 966.0670 MHz D1 -16.870 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 13 OCT 2020 16:28:16</p>
<p>CH39 1GHz~26GHz</p>	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPK Max M1[1] -43.63 dBm 25.982500 GHz D1 -16.870 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 13 OCT 2020 16:28:32</p>

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