

APPENDIX REPORT

Project No.	SHT2009039901EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT20090399004	Model No.	AX751+
Start test date	2020/9/16	Finish date	2020/9/16
Temperature	25°C	Humidity	50%
Test Engineer	Jiongsheng.Feng	Auditor	Xiaodong Zheo

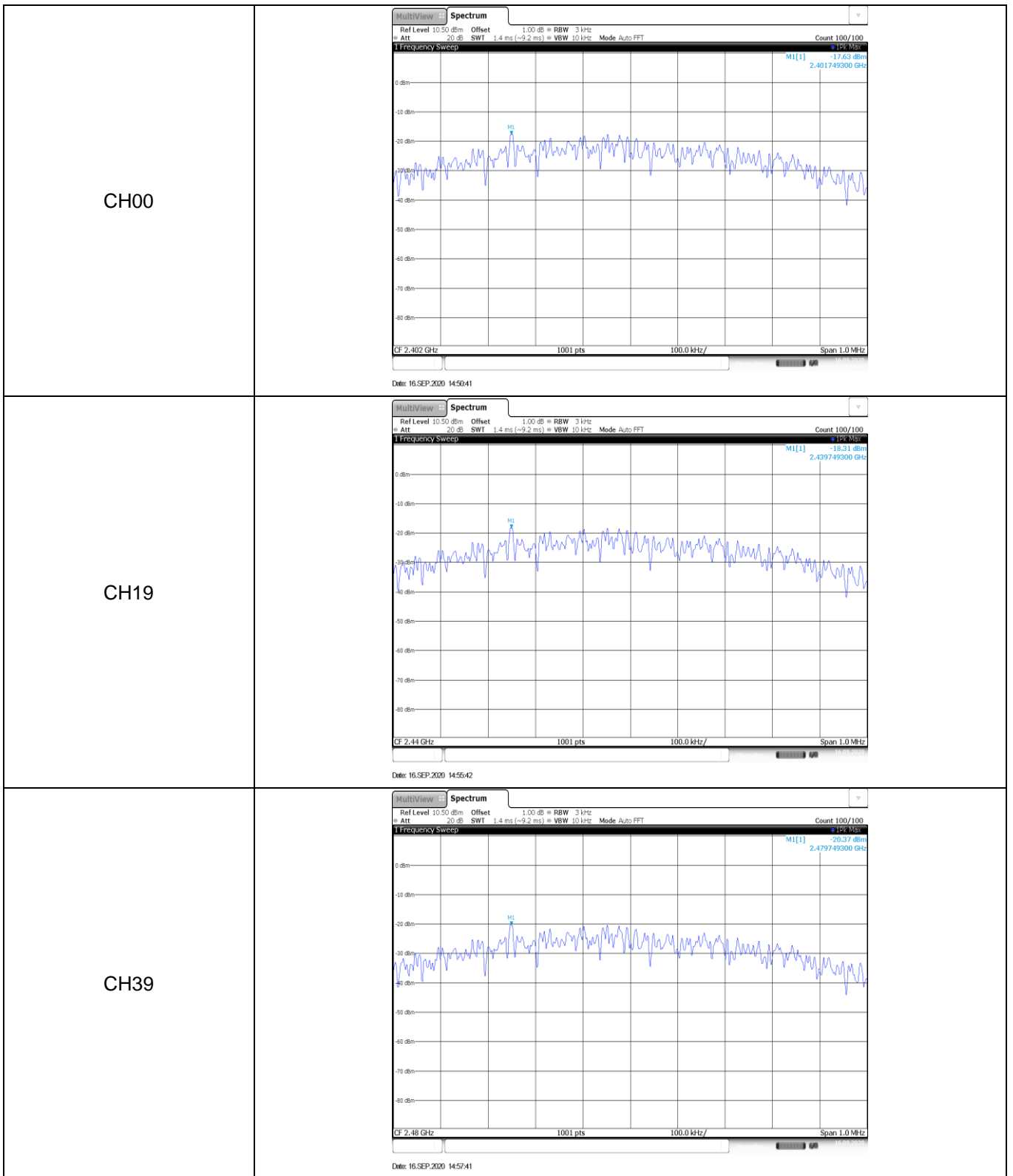
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-1.44	-1.47	≤ 30.00	Pass
	19	-2.29	-2.30		
	39	-4.29	-4.31		

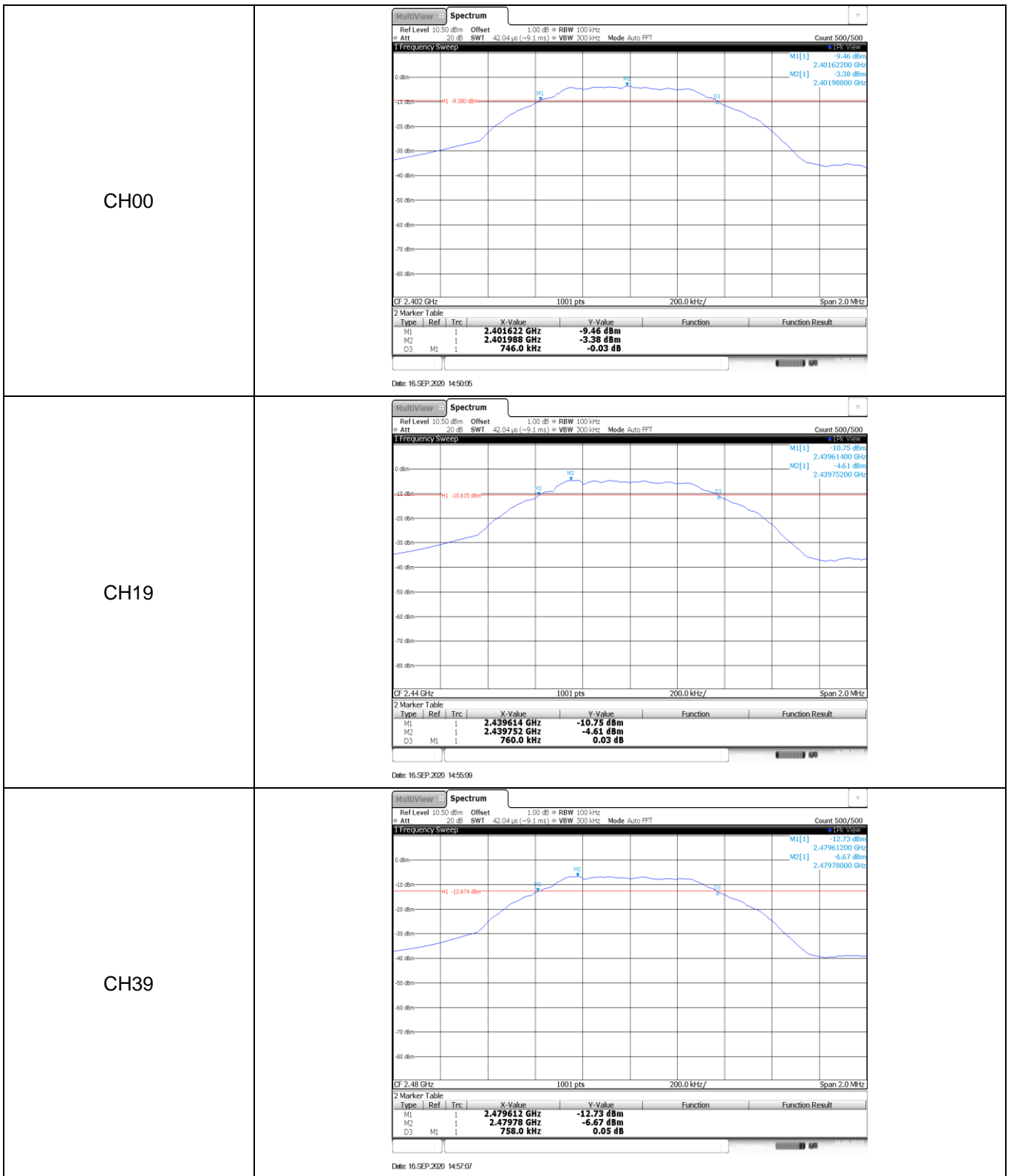
Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-17.63	≤8.00	Pass
	19	-18.31		
	39	-20.37		



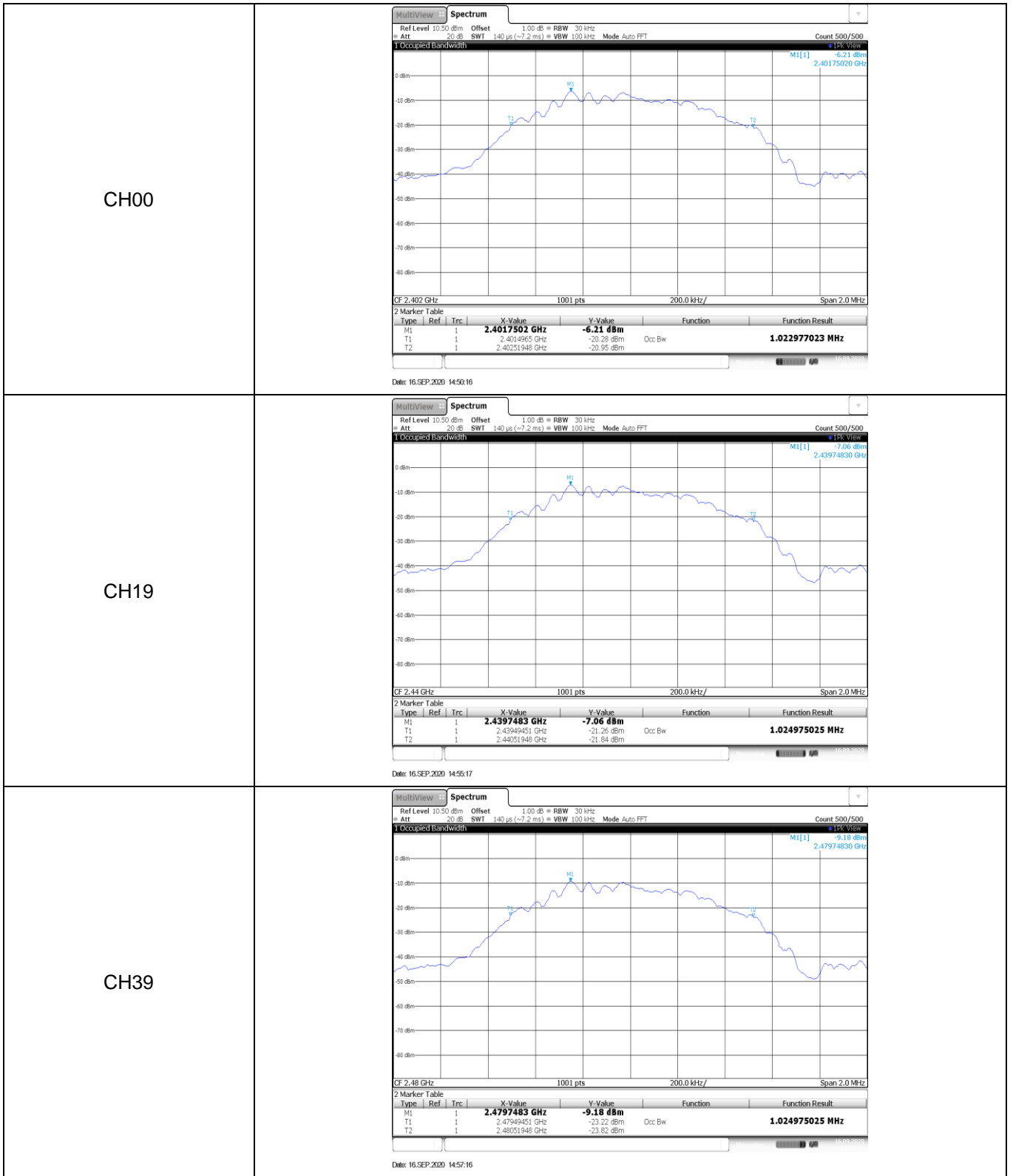
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	746.00	≥500	Pass
	19	760.00		
	39	758.00		



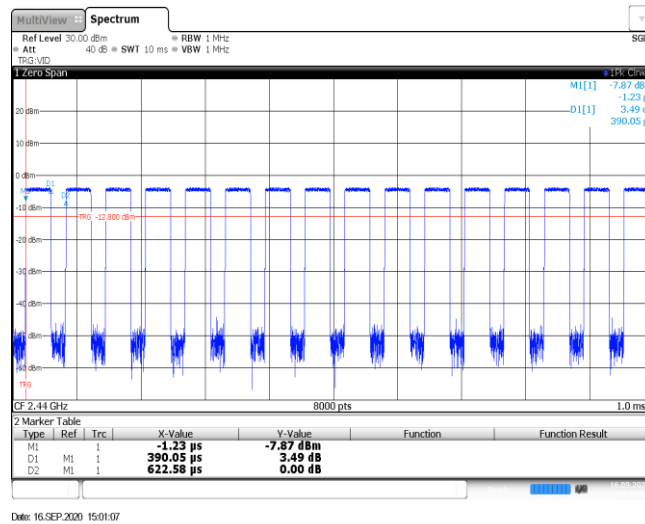
Appendix D: 99% Occupied Bandwidth

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

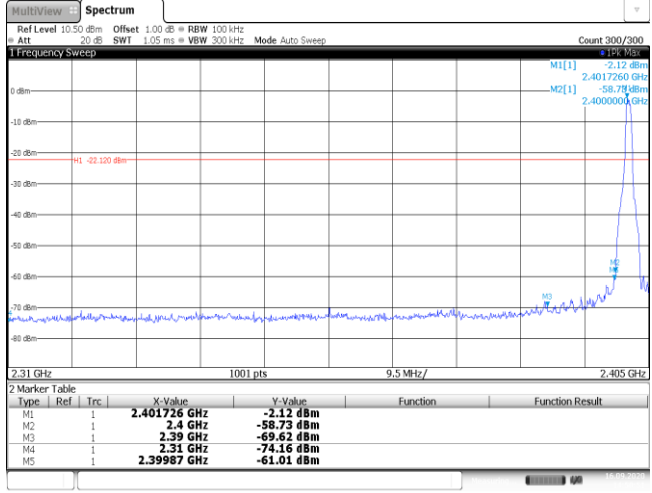
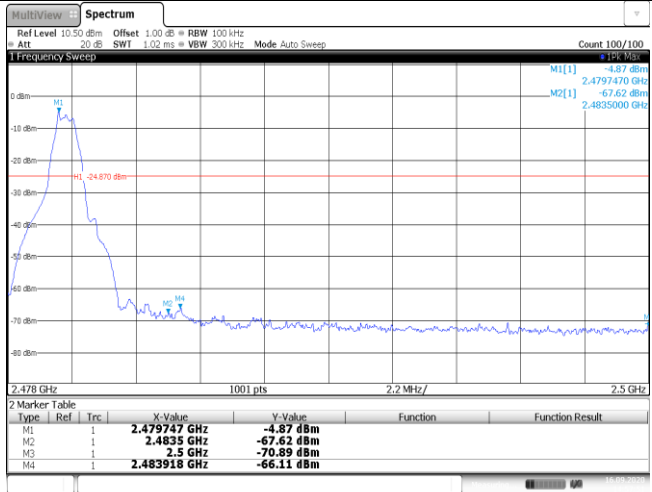


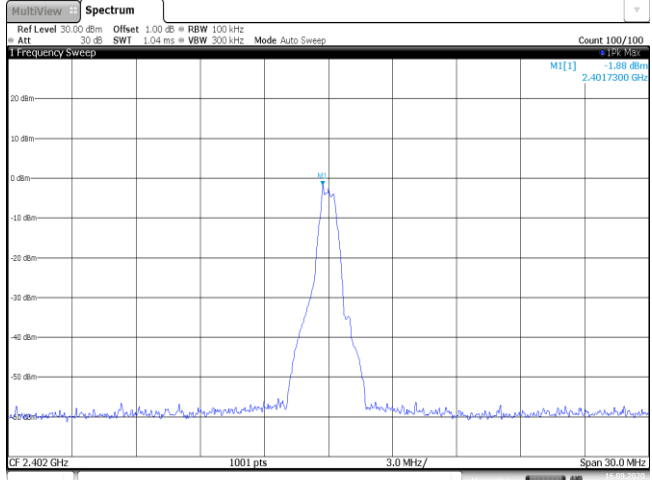
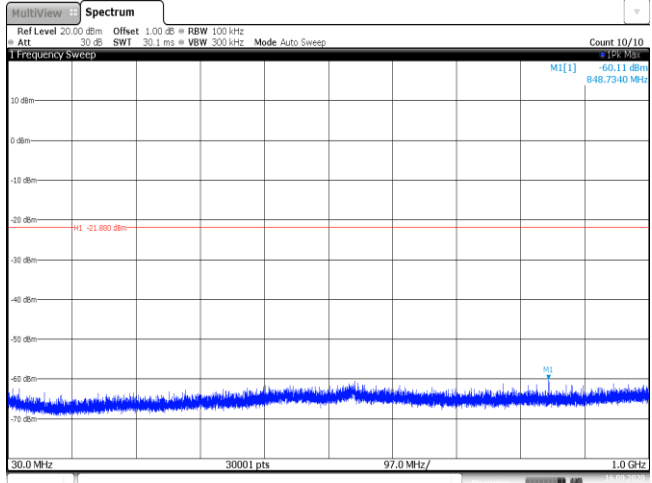
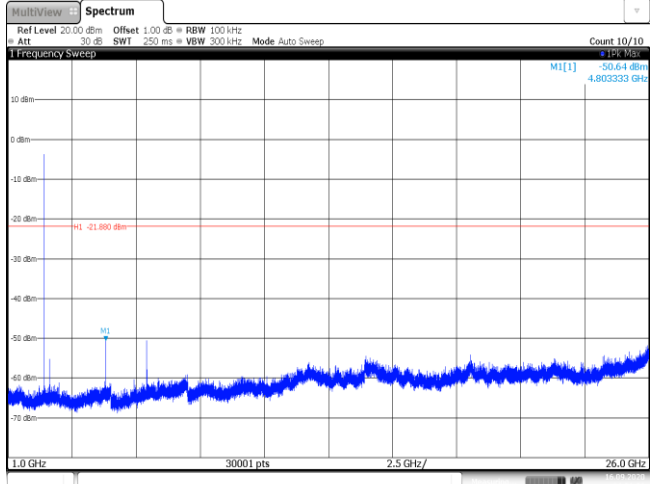
Appendix E: Duty cycle

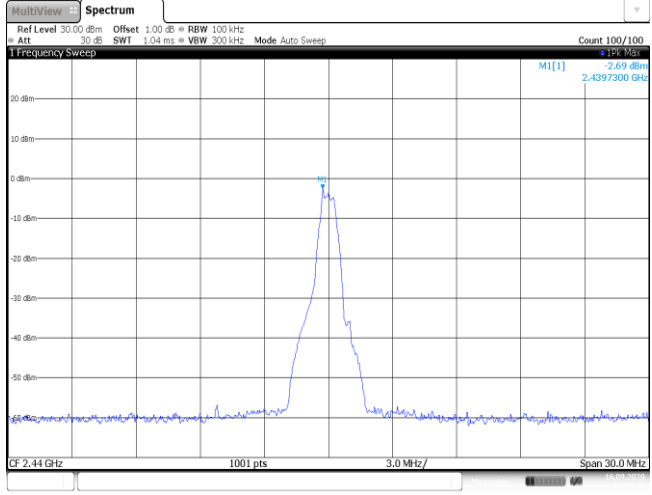
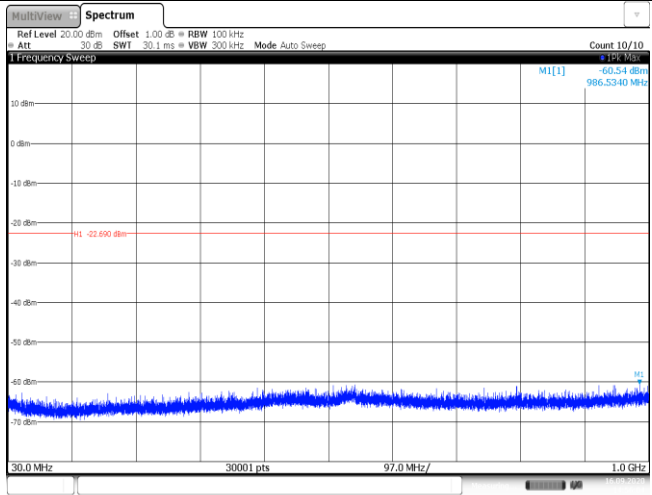
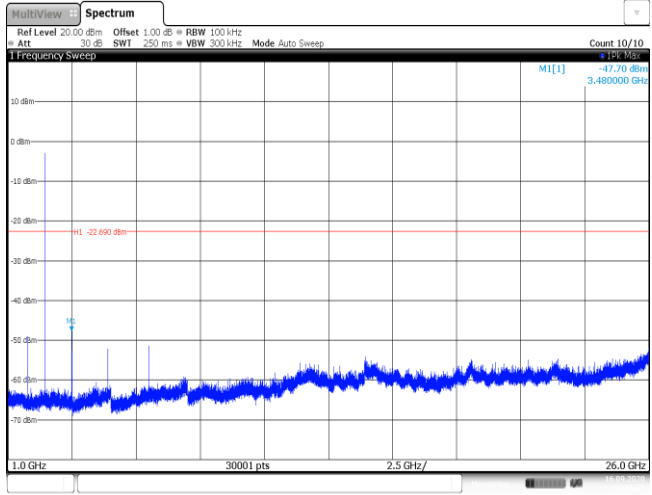
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.39	0.62	62.9%	2.6

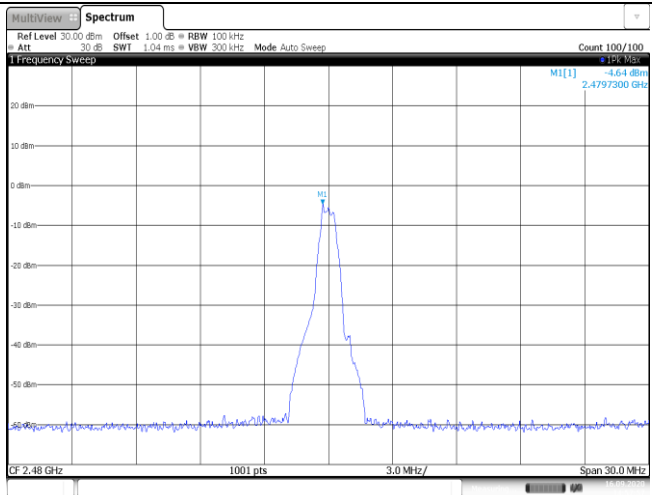
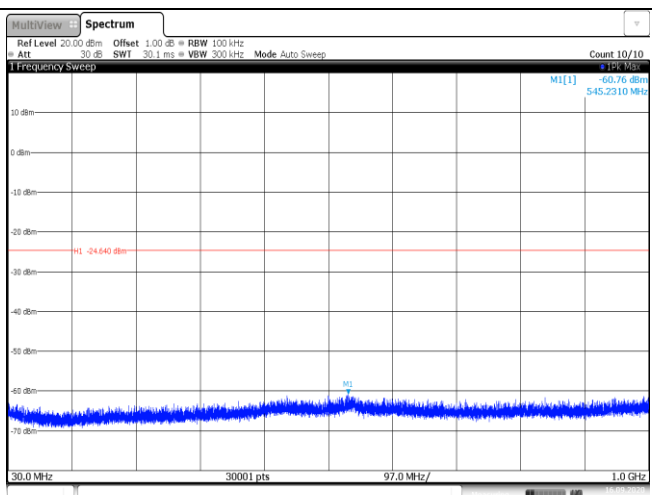
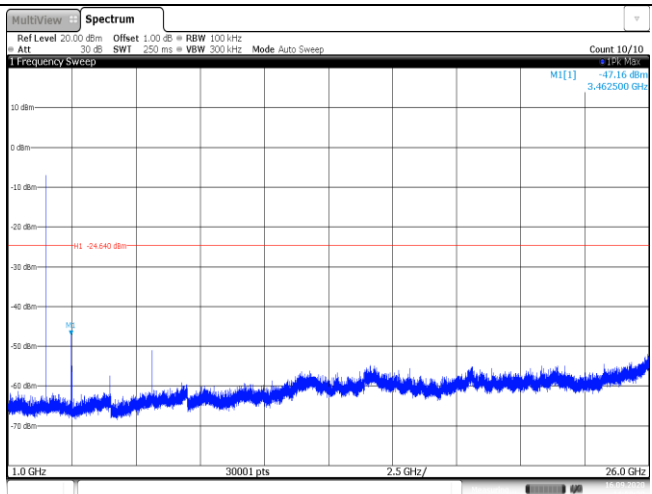


Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge
<p style="text-align: center;">CH00</p>	 <p style="text-align: center;">Date: 16.SEP.2020 14:50:51</p>
<p style="text-align: center;">CH39</p>	 <p style="text-align: center;">Date: 16.SEP.2020 14:57:50</p>

Test Item:	SE
<p>CH00 Reference level</p>	 <p>The plot shows a single sharp peak at 2.4017300 GHz. The y-axis represents power in dBm, ranging from -60 to 20. The x-axis represents frequency in MHz, with a span of 30.0 MHz. The peak is labeled M1[1] with a value of 1.88 dBm. The plot title is 'Spectrum' and it includes parameters: 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. The date is 16.SEP.2020 14:50:59.</p>
<p>CH00 30MHz~1000MHz</p>	 <p>The plot shows a wideband noise floor from 30.0 MHz to 1.0 GHz. The y-axis ranges from -70 to 10 dBm. The x-axis has a span of 97.0 MHz. A horizontal red line is drawn at -21.880 dBm. A peak is labeled M1[1] with a value of -60.11 dBm at 848.7340 MHz. The plot title is 'Spectrum' and it includes parameters: 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. The date is 16.SEP.2020 14:51:15.</p>
<p>CH00 1GHz~26GHz</p>	 <p>The plot shows a wideband noise floor from 1.0 GHz to 26.0 GHz. The y-axis ranges from -70 to 10 dBm. The x-axis has a span of 2.5 GHz. A horizontal red line is drawn at -21.880 dBm. A peak is labeled M1[1] with a value of -50.64 dBm at 4.805533 GHz. The plot title is 'Spectrum' and it includes parameters: Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30 dB, SWI 250 ms, VBW 300 kHz, Mode Auto Sweep. The date is 16.SEP.2020 14:51:32.</p>

<p>CH19 Reference level</p>	 <p>Date: 16.SEP.2020 14:55:49</p>
<p>CH19 30MHz~1000MHz</p>	 <p>Date: 16.SEP.2020 14:56:05</p>
<p>CH19 1GHz~26GHz</p>	 <p>Date: 16.SEP.2020 14:56:21</p>

<p>CH39 Reference level</p>	 <p>MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -4.64 dBm 2.4797300 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.SEP.2020 14:57:57</p>
<p>CH39 30MHz~1000MHz</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep M1[1] -60.76 dBm 545.2310 MHz M1 -24.640 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 16.SEP.2020 14:58:13</p>
<p>CH39 1GHz~26GHz</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep M1[1] -47.16 dBm 3.462500 GHz M1 -24.640 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 16.SEP.2020 14:58:29</p>

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