

# APPENDIX REPORT

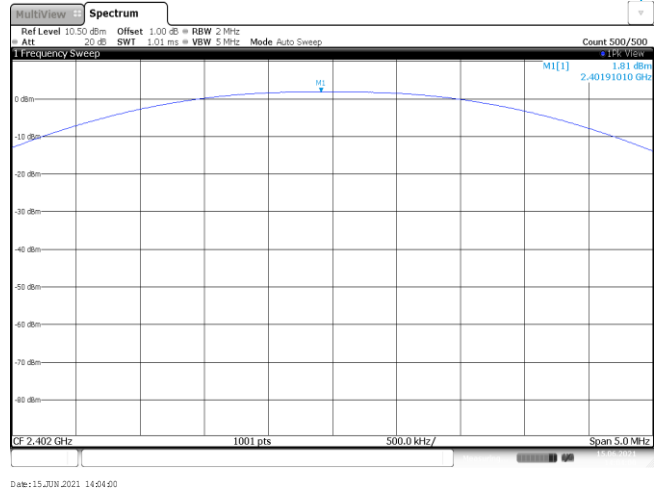
Project No.	SHT2105069803EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21050698003	Model No.	DCIO
Start test date	2021-06-15	Finish date	2021-06-15
Temperature	25.7°C	Humidity	27%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zheo

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

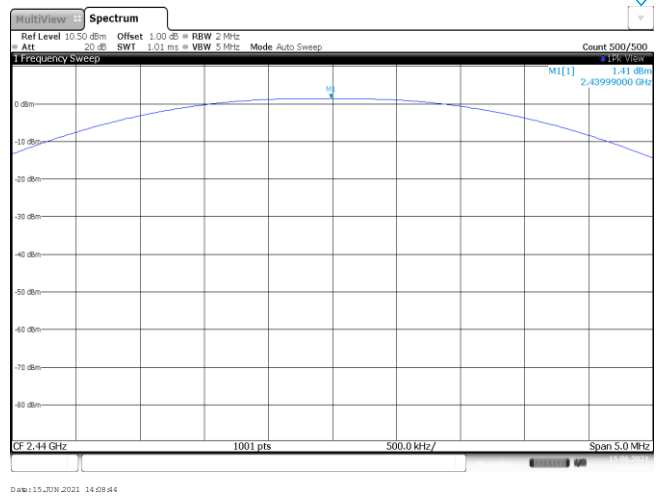
**Appendix A: Peak Output Power**

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	1.81	1.80	≤ 30.00	Pass
	19	1.41	1.39		
	39	0.63	0.62		

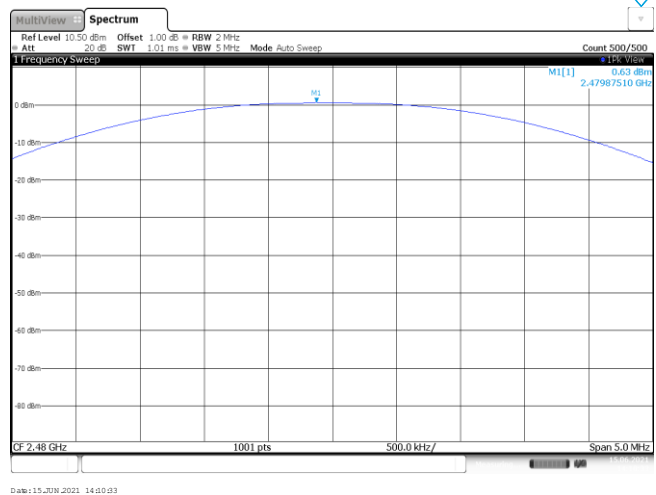
CH00



CH19

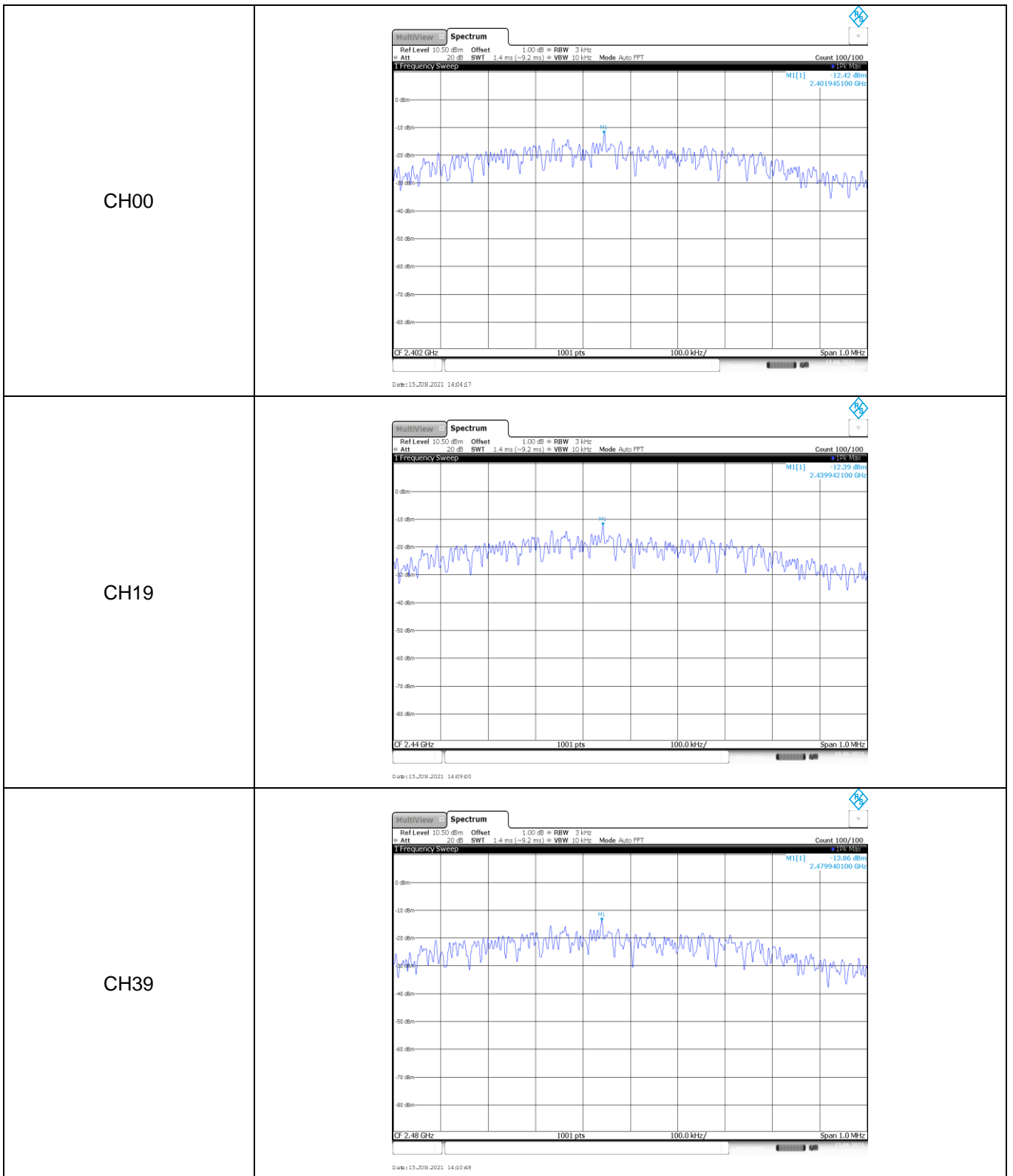


CH39



**Appendix B: Power Spectral Density**

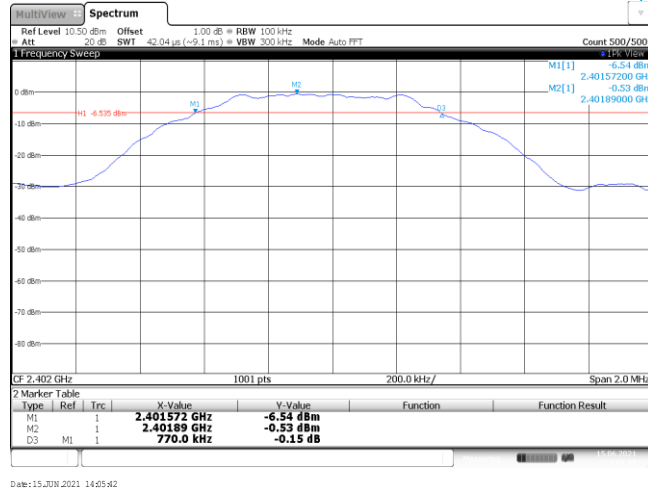
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-12.42	≤8.00	Pass
	19	-12.39		
	39	-13.86		



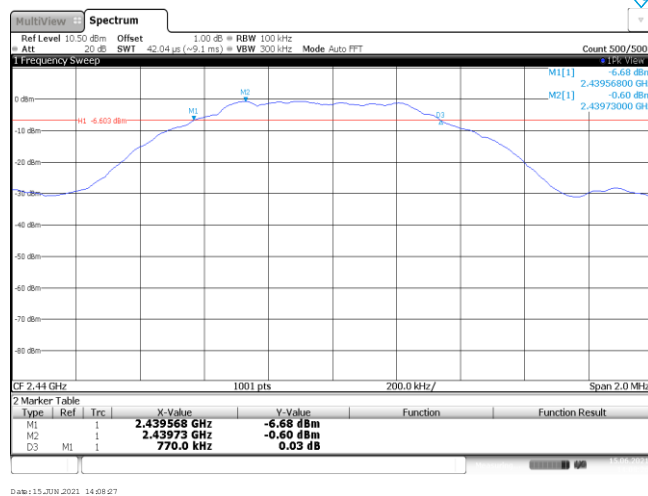
**Appendix C: 6dB bandwidth**

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	770.00	≥500	Pass
	19	770.00		
	39	776.00		

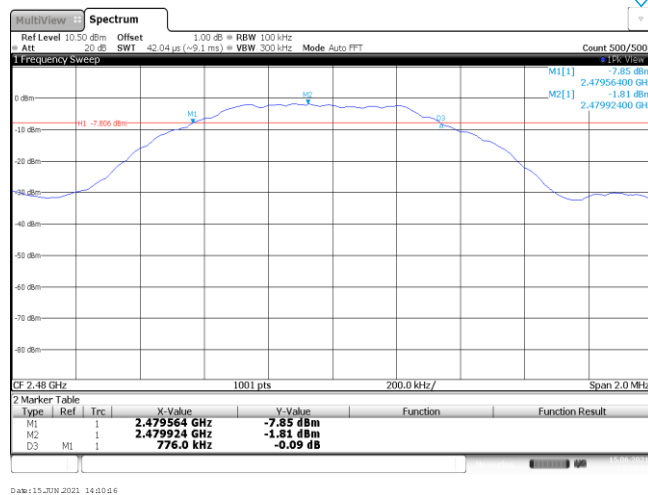
CH00



CH19



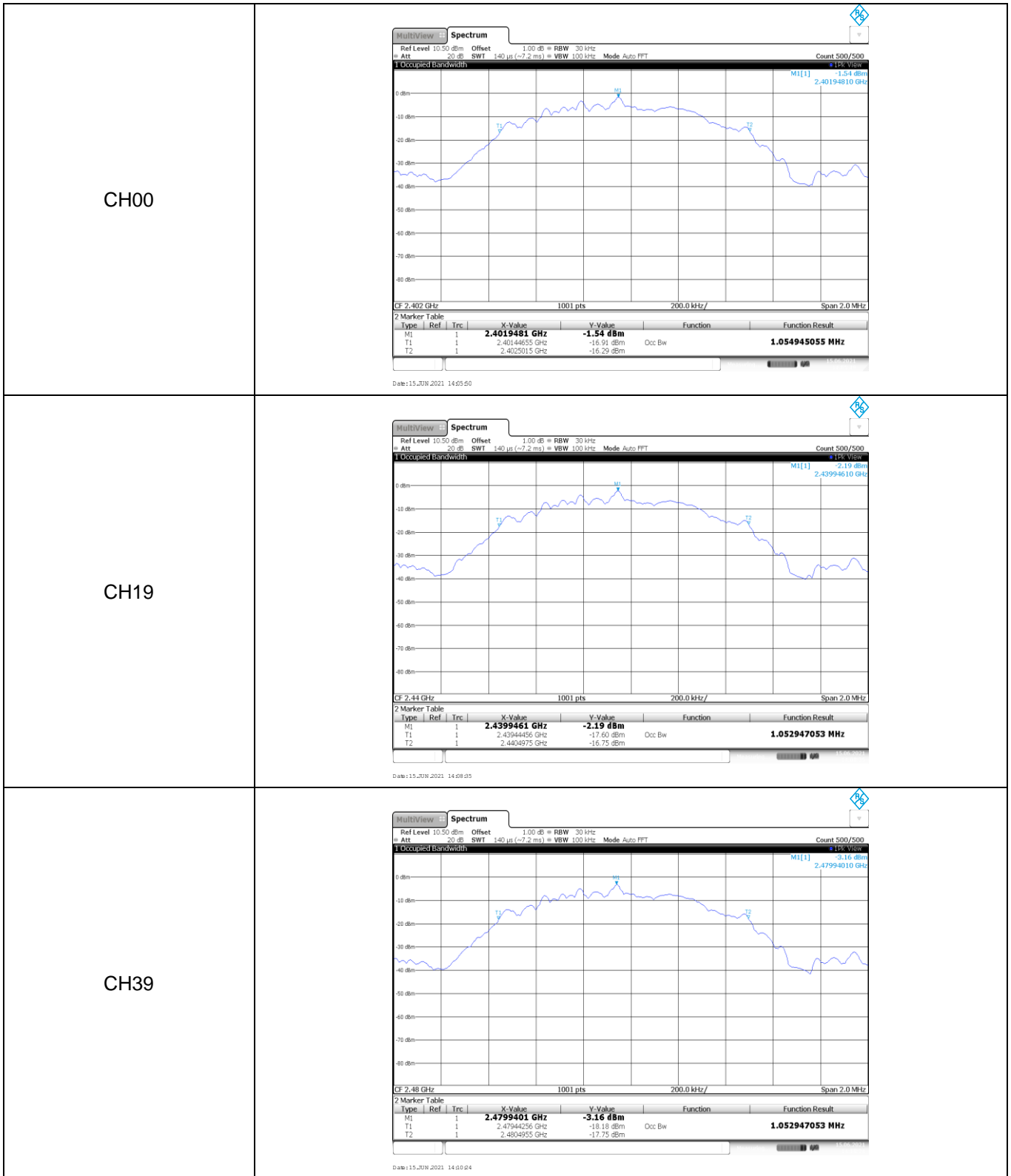
CH39



**Appendix D: 99% Occupied Bandwidth**

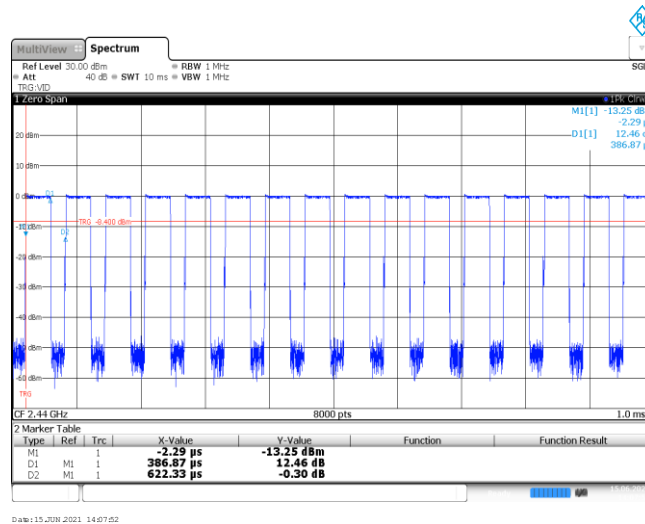
Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.05	-	Pass
	19	1.05		
	39	1.05		



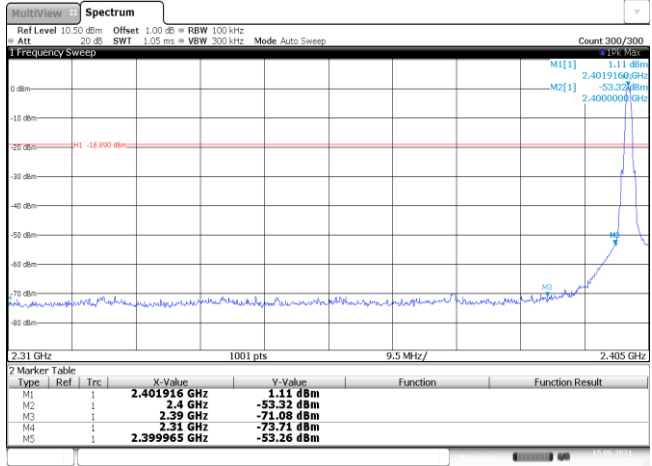
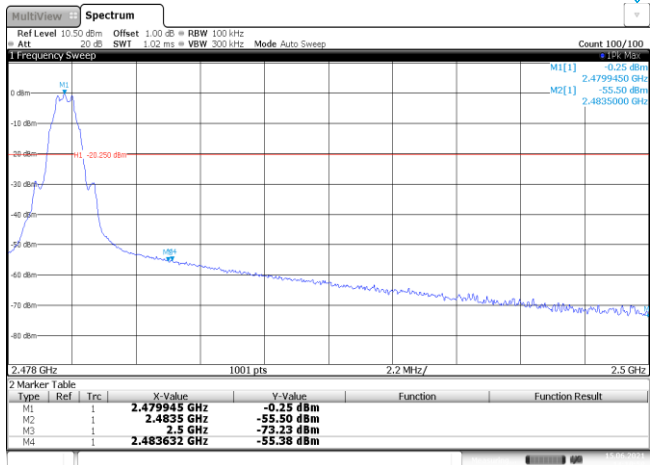


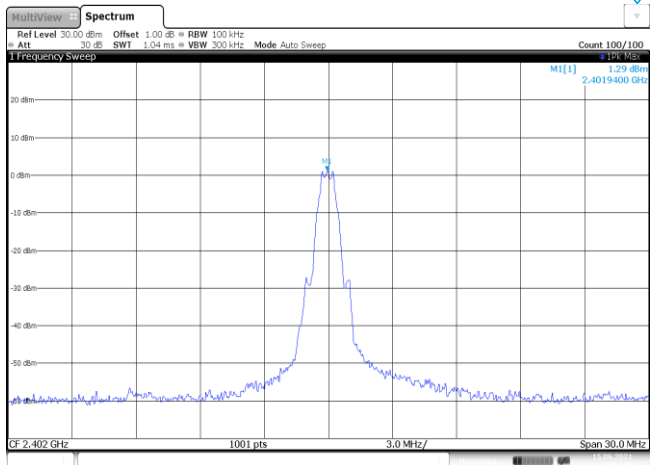
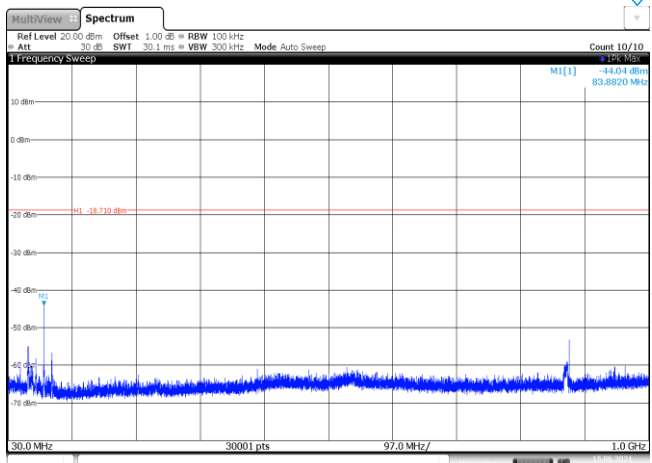
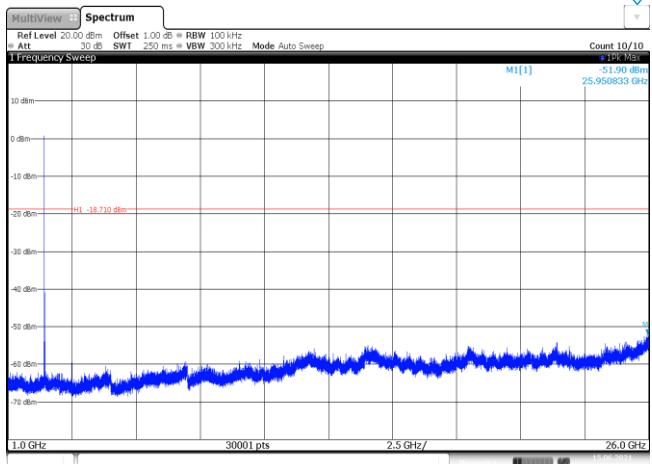
### Appendix E: Duty cycle

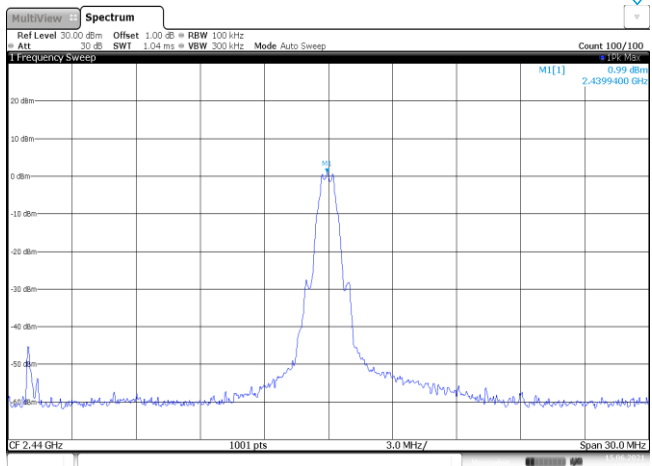
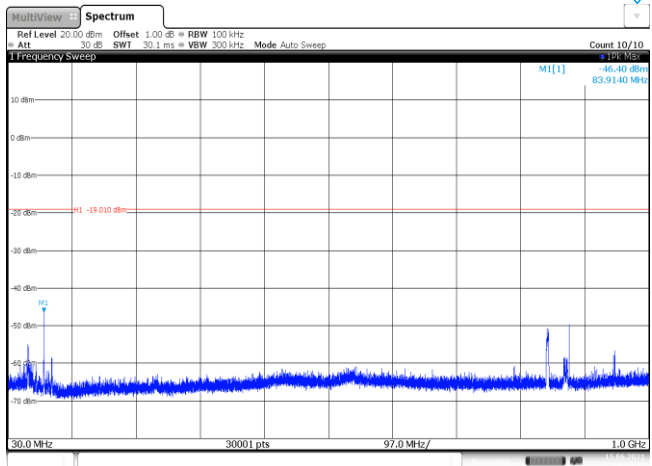
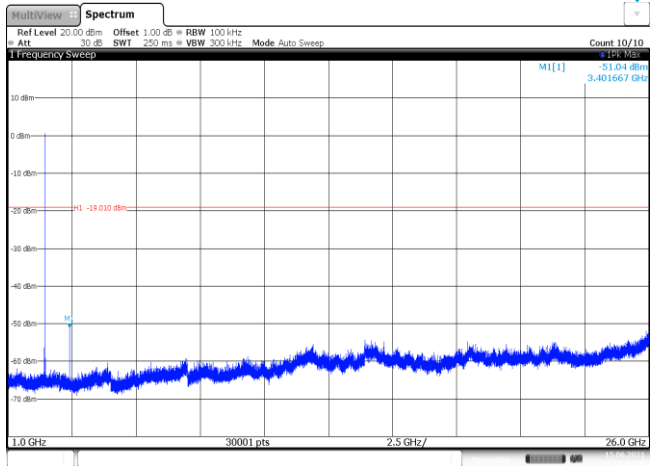
Test Frequency (MHz)	T <sub>on</sub> time for single burst (ms)	T <sub>period</sub> (ms)	Duty cycle	1/T <sub>on</sub> time (kHz)
2440	0.39	0.62	62.9%	2.6

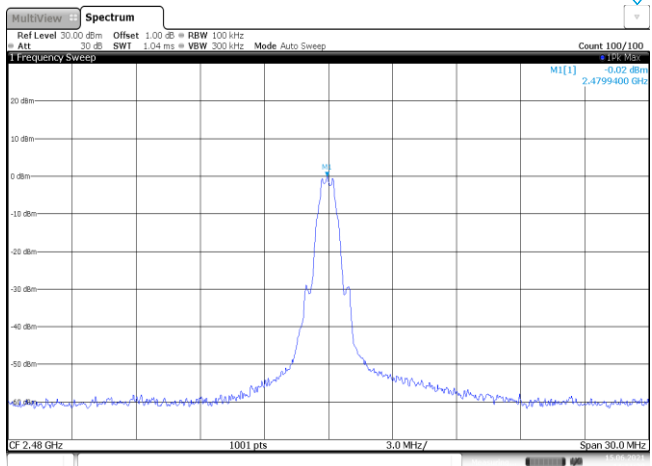
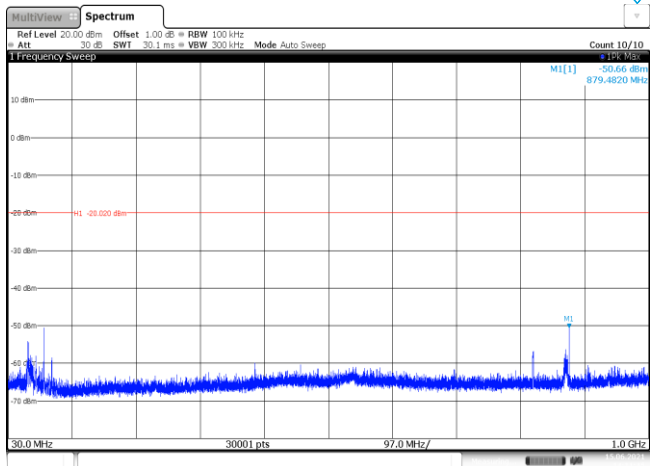
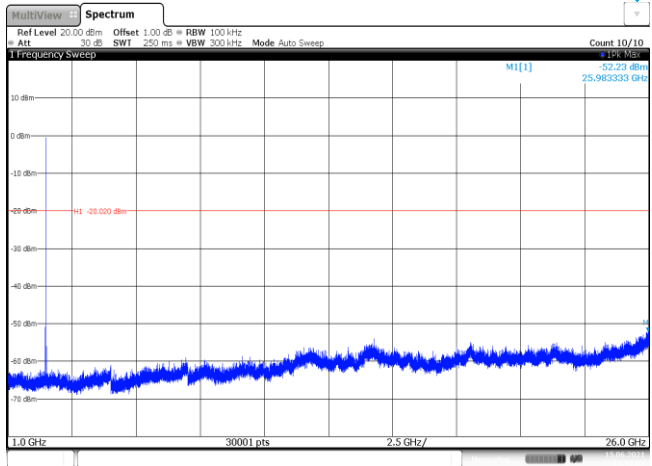


### Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge
<p style="text-align: center;">CH00</p>	 <p style="text-align: right;">Date: 15 JUN 2021 14:04:27</p>
<p style="text-align: center;">CH39</p>	 <p style="text-align: right;">Date: 15 JUN 2021 14:10:08</p>

Test Item:	SE
<p>CH00 Reference level</p>	 <p>Date: 15 JUN 2021 14:04:36</p>
<p>CH00 30MHz~1000MHz</p>	 <p>Date: 15 JUN 2021 14:04:31</p>
<p>CH00 1GHz~26GHz</p>	 <p>Date: 15 JUN 2021 14:05:07</p>

<p>CH19 Reference level</p>	 <p>The spectrum plot shows a single sharp peak at 2.4399400 GHz with a power level of 0.99 dBm. The y-axis ranges from -70 dBm to 20 dBm, and the x-axis shows a span of 30.0 MHz centered at 2.44 GHz. The plot includes technical 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, Count 100/100, and Date: 15 JUN 2021 14:09:06.</p>
<p>CH19 30MHz~1000MHz</p>	 <p>The spectrum plot shows a noise floor around -65 dBm across the 30 MHz to 1000 MHz range. A red horizontal line is drawn at -19.010 dBm. The y-axis ranges from -70 dBm to 20 dBm, and the x-axis shows a span of 97.0 MHz. The plot includes technical 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, Count 10/10, and Date: 15 JUN 2021 14:09:02.</p>
<p>CH19 1GHz~26GHz</p>	 <p>The spectrum plot shows a noise floor around -65 dBm across the 1 GHz to 26 GHz range. A red horizontal line is drawn at -19.010 dBm. The y-axis ranges from -70 dBm to 20 dBm, and the x-axis shows a span of 2.5 GHz. The plot includes technical 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, Count 10/10, and Date: 15 JUN 2021 14:09:09.</p>

<p>CH39 Reference level</p>	 <p>Date: 15 JUN 2021 14:11:29</p>
<p>CH39 30MHz~1000MHz</p>	 <p>Date: 15 JUN 2021 14:11:45</p>
<p>CH39 1GHz~26GHz</p>	 <p>Date: 15 JUN 2021 14:12:02</p>

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