

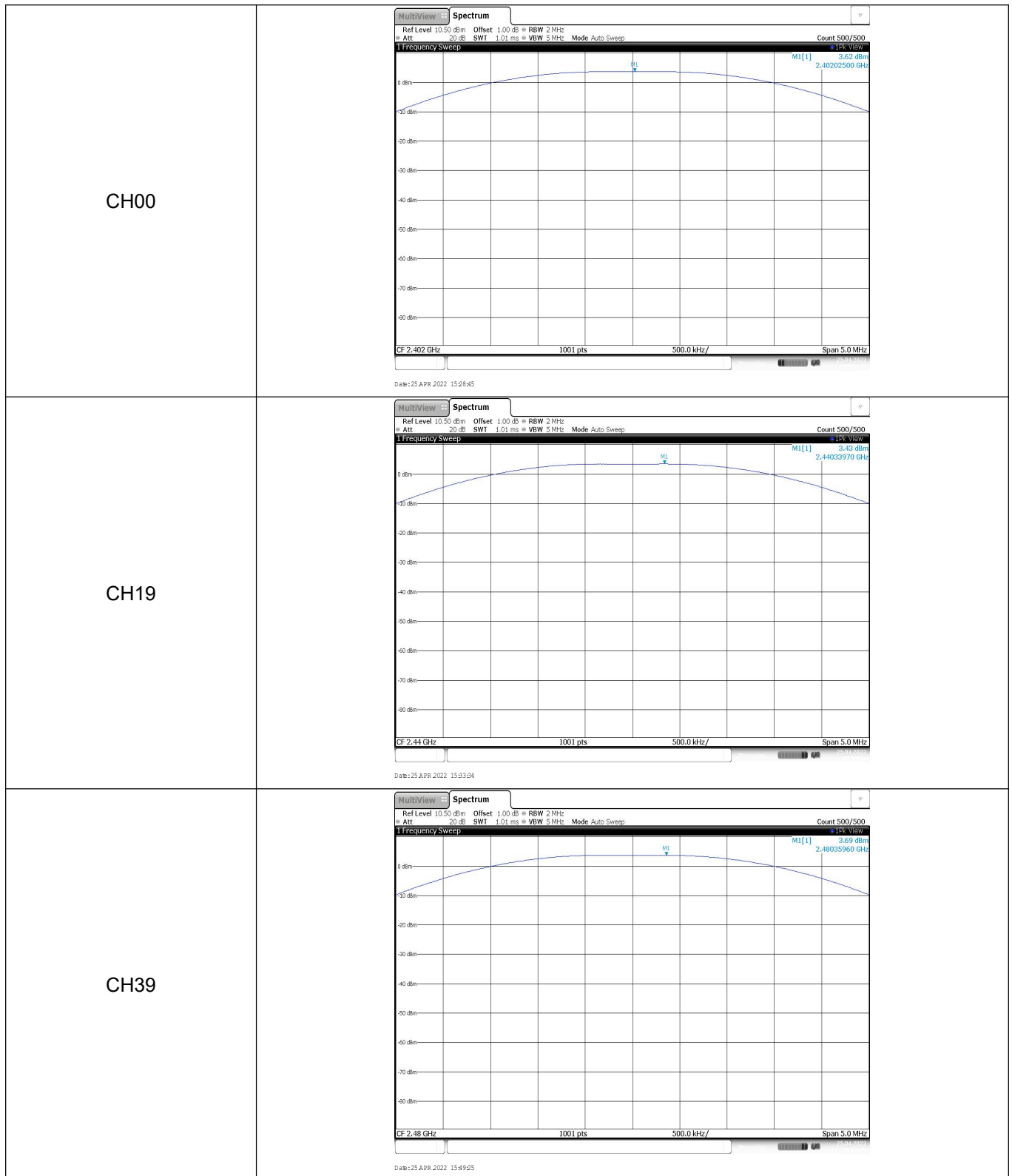
APPENDIX REPORT

Project No.	SHT2203065706EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT22030657007	Model No.	PU100
Start test date	2022-04-25	Finish date	2022-04-26
Temperature	24.4℃	Humidity	40%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zhao

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

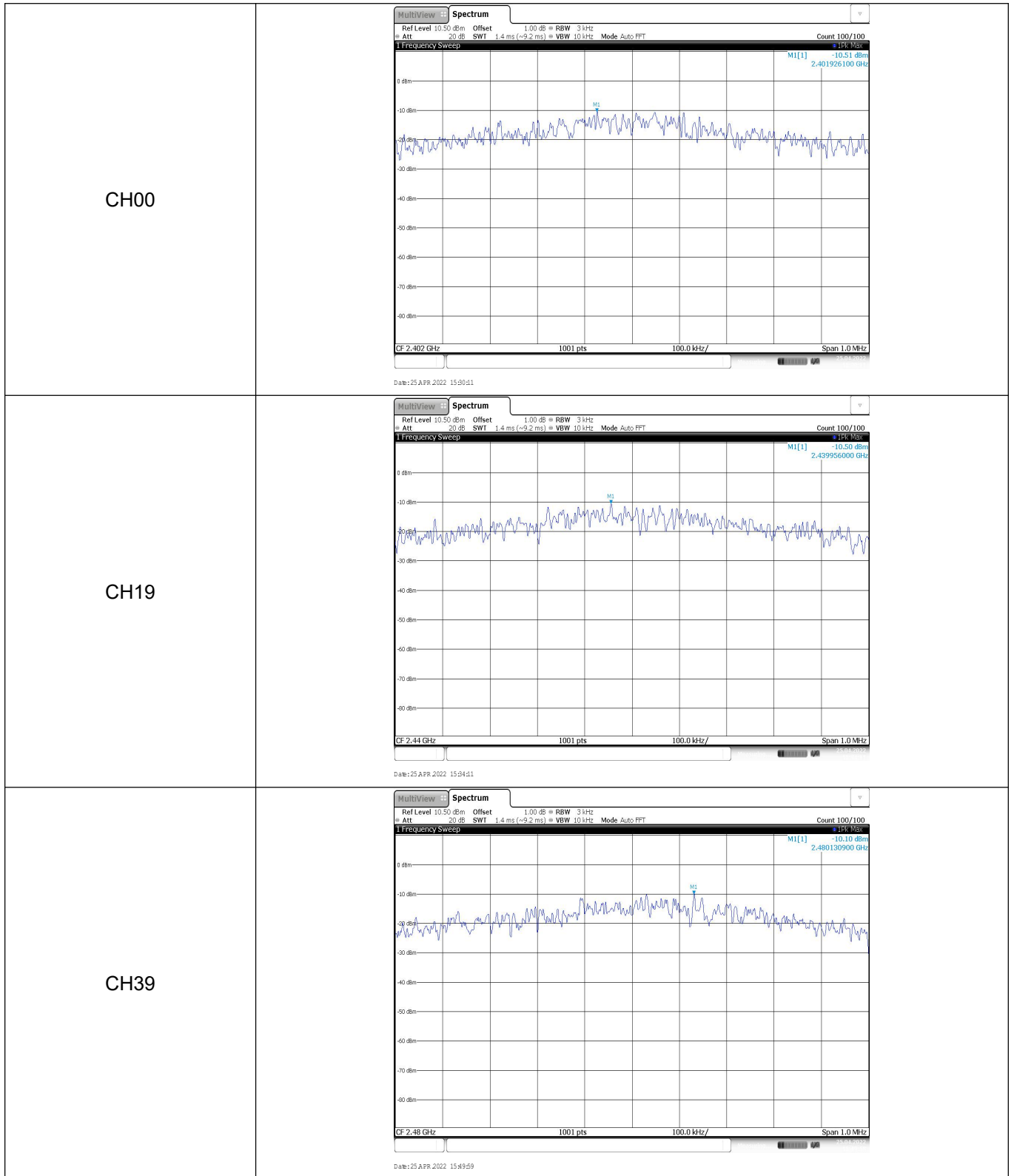
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	3.62	3.61	≤ 30.00	Pass
	19	3.43	3.41		
	39	3.69	3.67		



Appendix B: Power Spectral Density

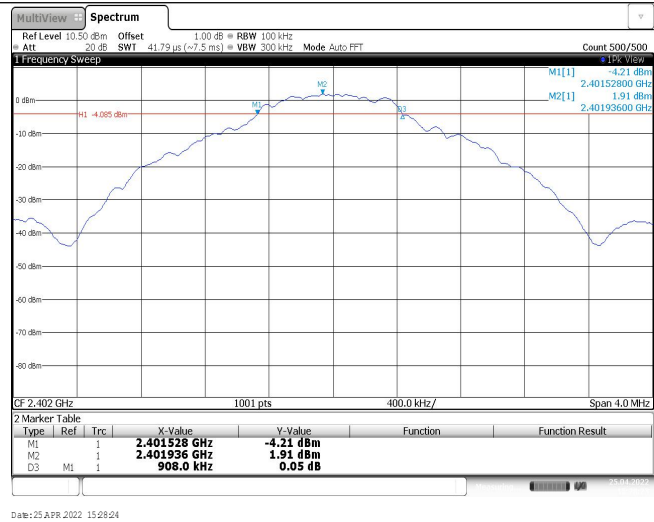
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-10.51	≤8.00	Pass
	19	-10.50		
	39	-10.10		



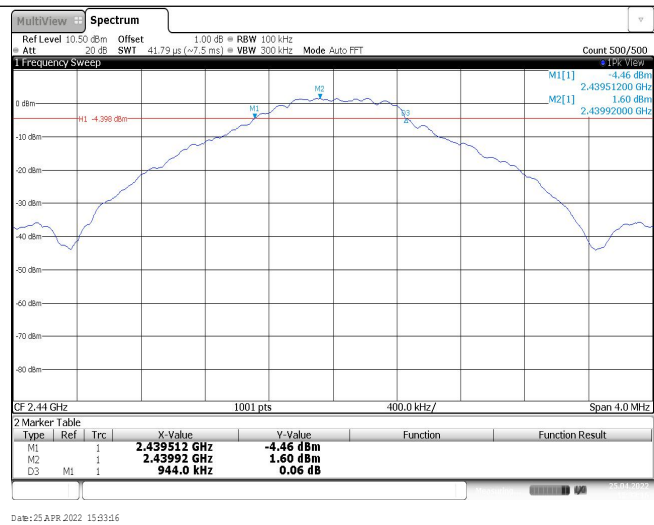
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	908.00	≥500	Pass
	19	944.00		
	39	956.00		

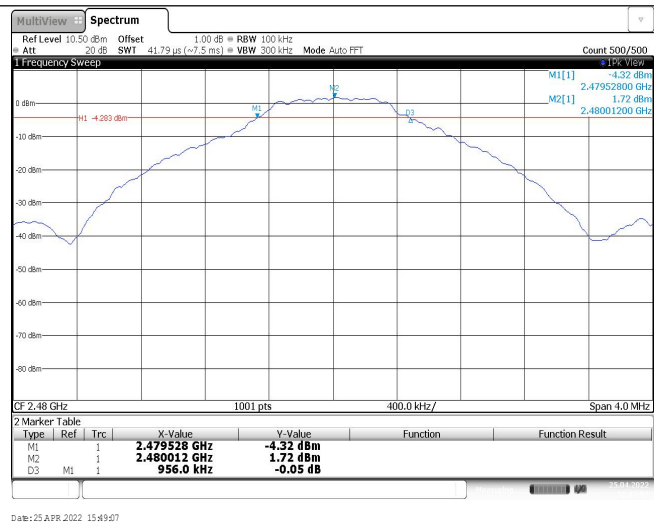
CH00



CH19



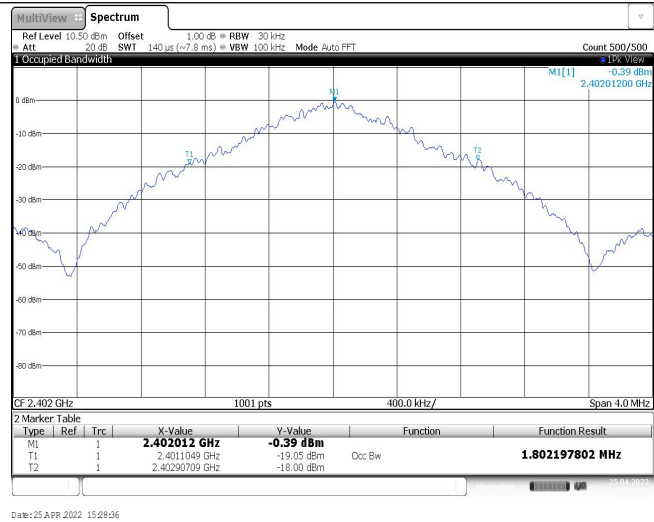
CH39



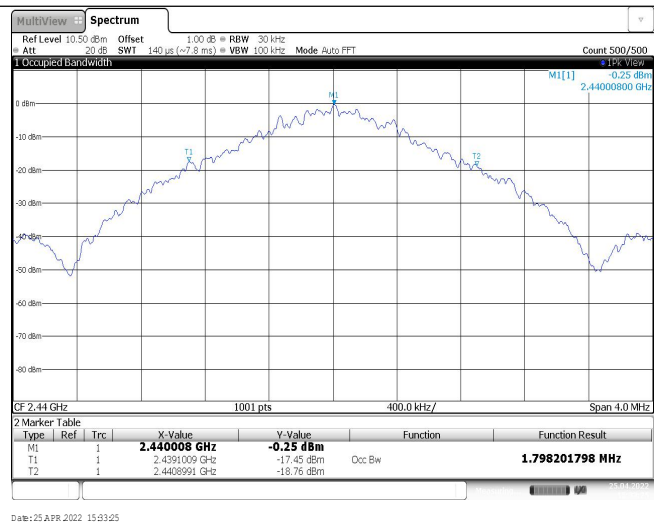
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.80	-	Pass
	19	1.80		
	39	1.83		

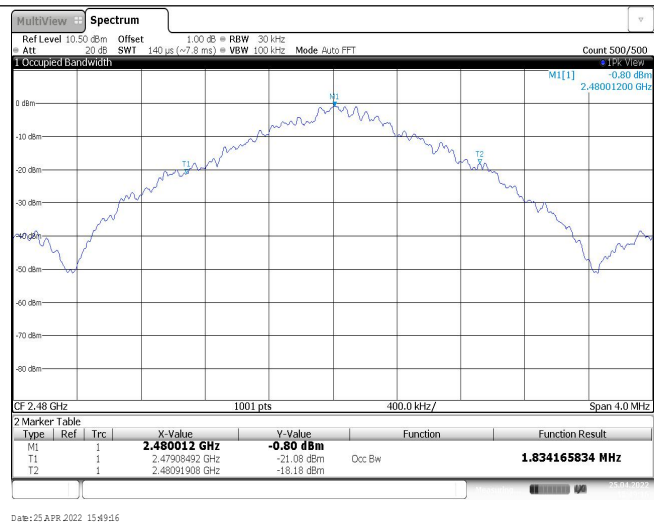
CH00



CH19

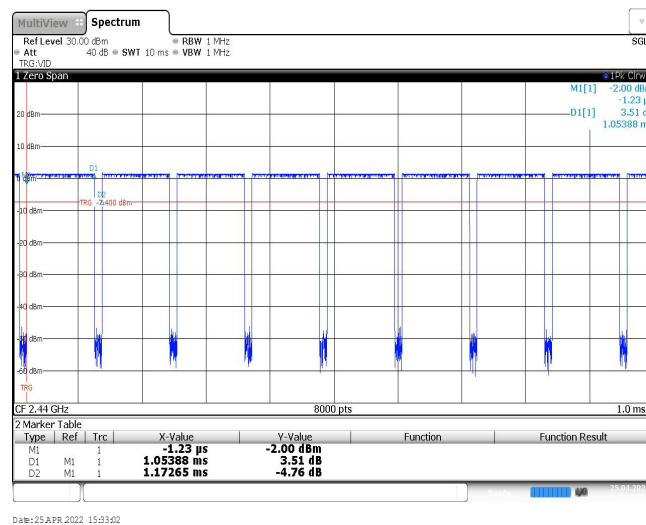


CH39

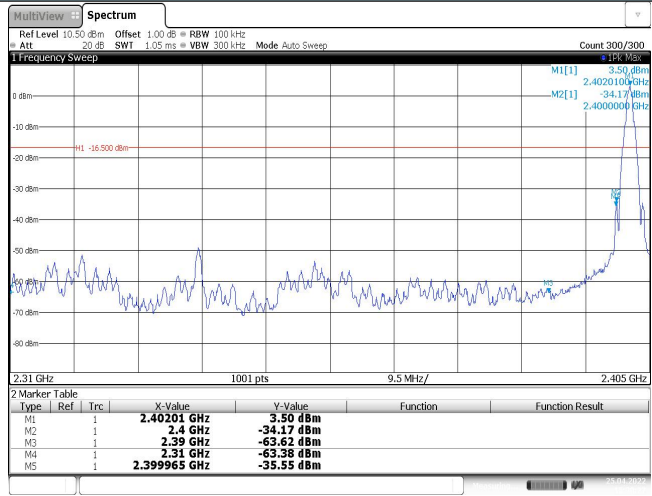
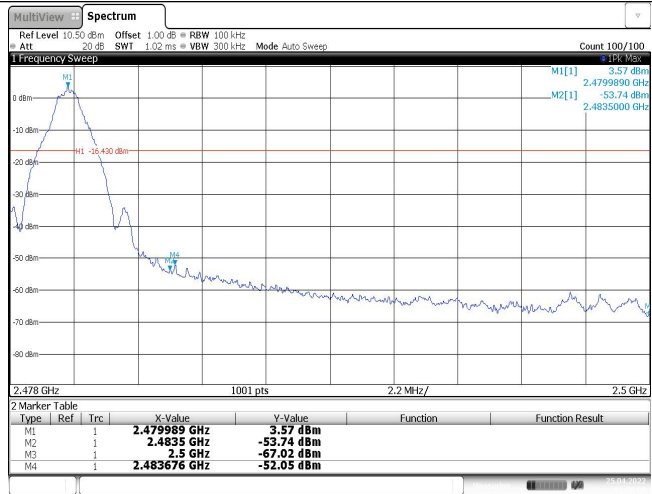
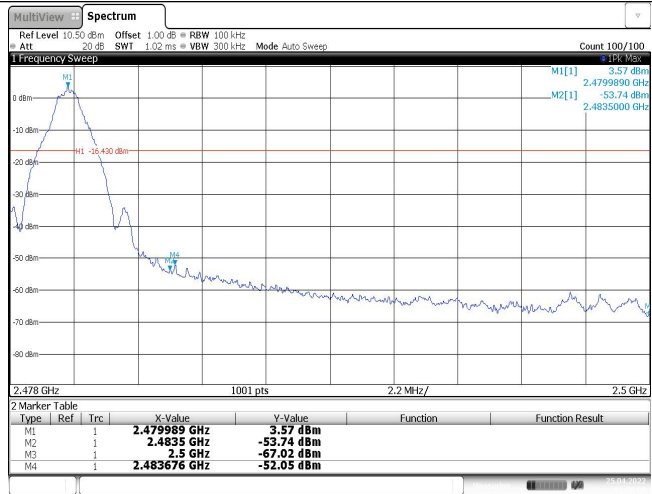
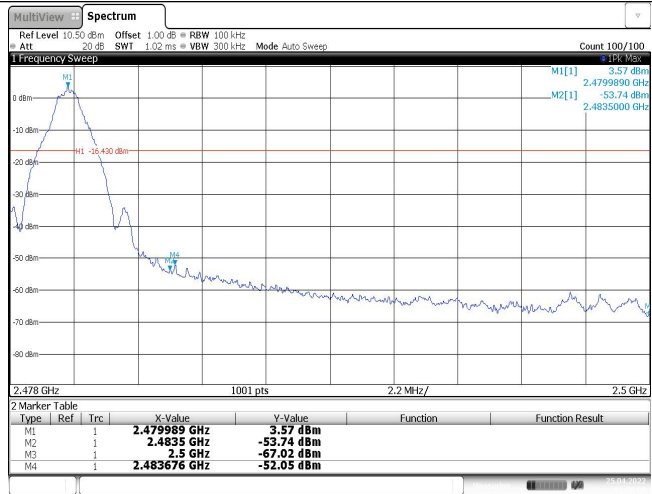


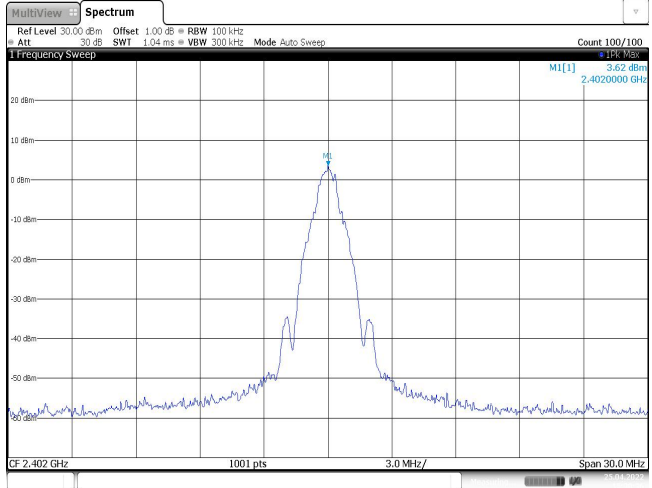
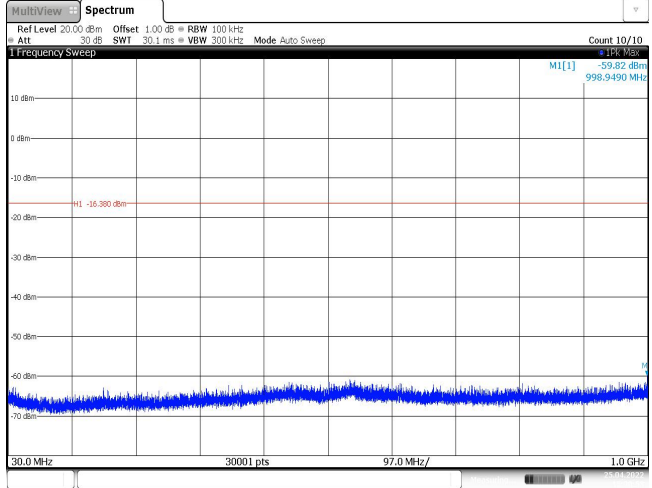
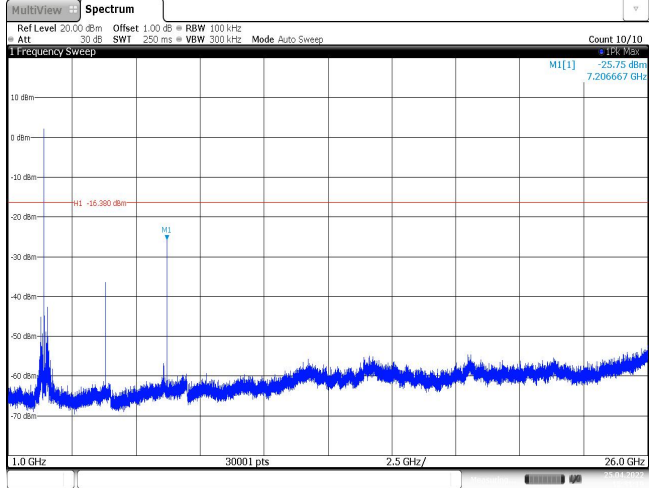
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	1.05	1.17	89.7%	0.95

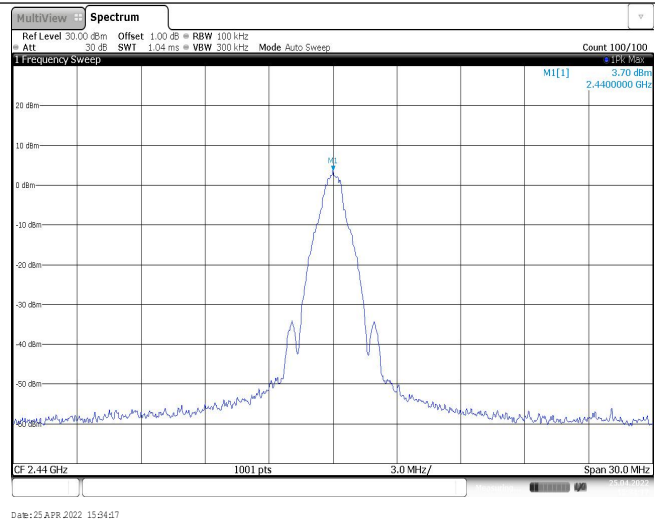


Appendix F: Band edge and Spurious Emissions (conducted)

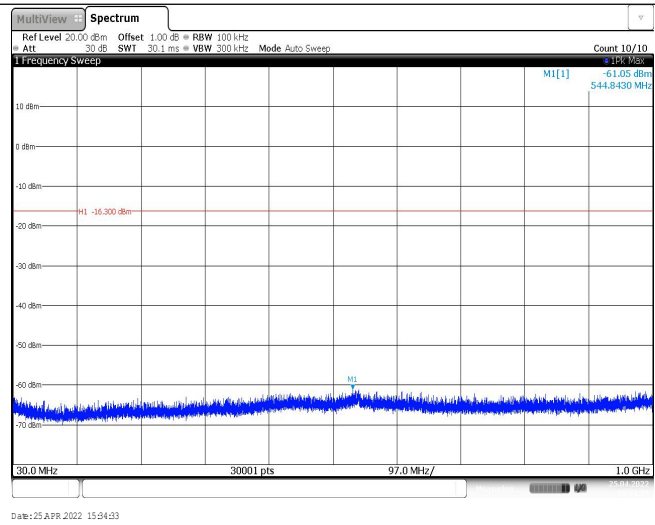
Test Item:	Band edge																																																																															
CH00	MultiViewSpectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.05 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep M1 [1] -35.50 dBm M2 [1] -34.17 dBm M3 [1] -63.62 dBm M4 [1] -63.38 dBm M5 [1] -35.55 dBm  2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz <table><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><tr><td>M1</td><td>1</td><td></td><td>2.40201 GHz</td><td>-34.17 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-34.17 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-63.62 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.38 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-35.55 dBm</td><td></td><td></td></tr></table> Date: 25 APR 2022 15:50:27 <tr><td>CH39</td><td> MultiViewSpectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.02 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1 [1] -35.57 dBm M2 [1] -53.74 dBm M3 [1] -67.02 dBm M4 [1] -52.05 dBm  2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz <table><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><tr><td>M1</td><td>1</td><td></td><td>2.479989 GHz</td><td>-53.74 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-53.74 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-67.02 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483676 GHz</td><td>-52.05 dBm</td><td></td><td></td></tr></table> Date: 25 APR 2022 15:50:28 </td></tr>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	-34.17 dBm			M2	1		2.4 GHz	-34.17 dBm			M3	1		2.39 GHz	-63.62 dBm			M4	1		2.31 GHz	-63.38 dBm			M5	1		2.399965 GHz	-35.55 dBm			CH39	MultiViewSpectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.02 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1 [1] -35.57 dBm M2 [1] -53.74 dBm M3 [1] -67.02 dBm M4 [1] -52.05 dBm  2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz <table><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><tr><td>M1</td><td>1</td><td></td><td>2.479989 GHz</td><td>-53.74 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-53.74 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-67.02 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483676 GHz</td><td>-52.05 dBm</td><td></td><td></td></tr></table> Date: 25 APR 2022 15:50:28	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479989 GHz	-53.74 dBm			M2	1		2.4835 GHz	-53.74 dBm			M3	1		2.5 GHz	-67.02 dBm			M4	1		2.483676 GHz	-52.05 dBm		
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Test Item:	SE
CH00 Reference level	 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 M1[1] 3.62 dBm 2.4020000 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 25 APR 2022 15:30:27
CH00 30MHz~1000MHz	 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 M1[1] -59.82 dBm 998.9490 MHz M1 -16.380 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 25 APR 2022 15:30:53
CH00 1GHz~26GHz	 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 M1[1] -25.75 dBm 7.206667 GHz M1 -16.380 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 25 APR 2022 15:31:19

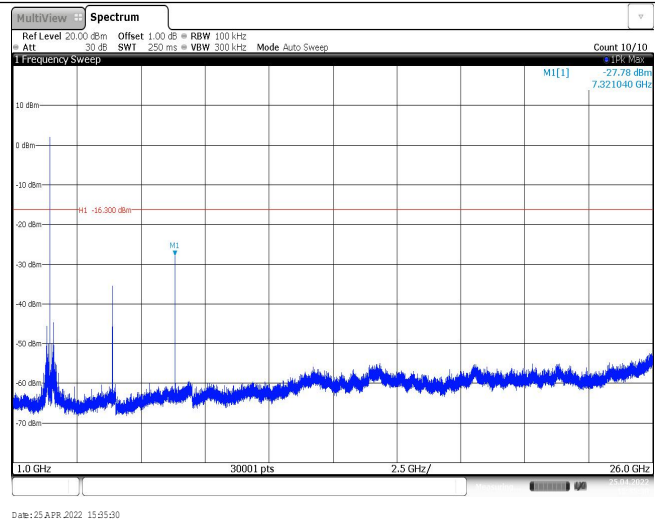
CH19
Reference level

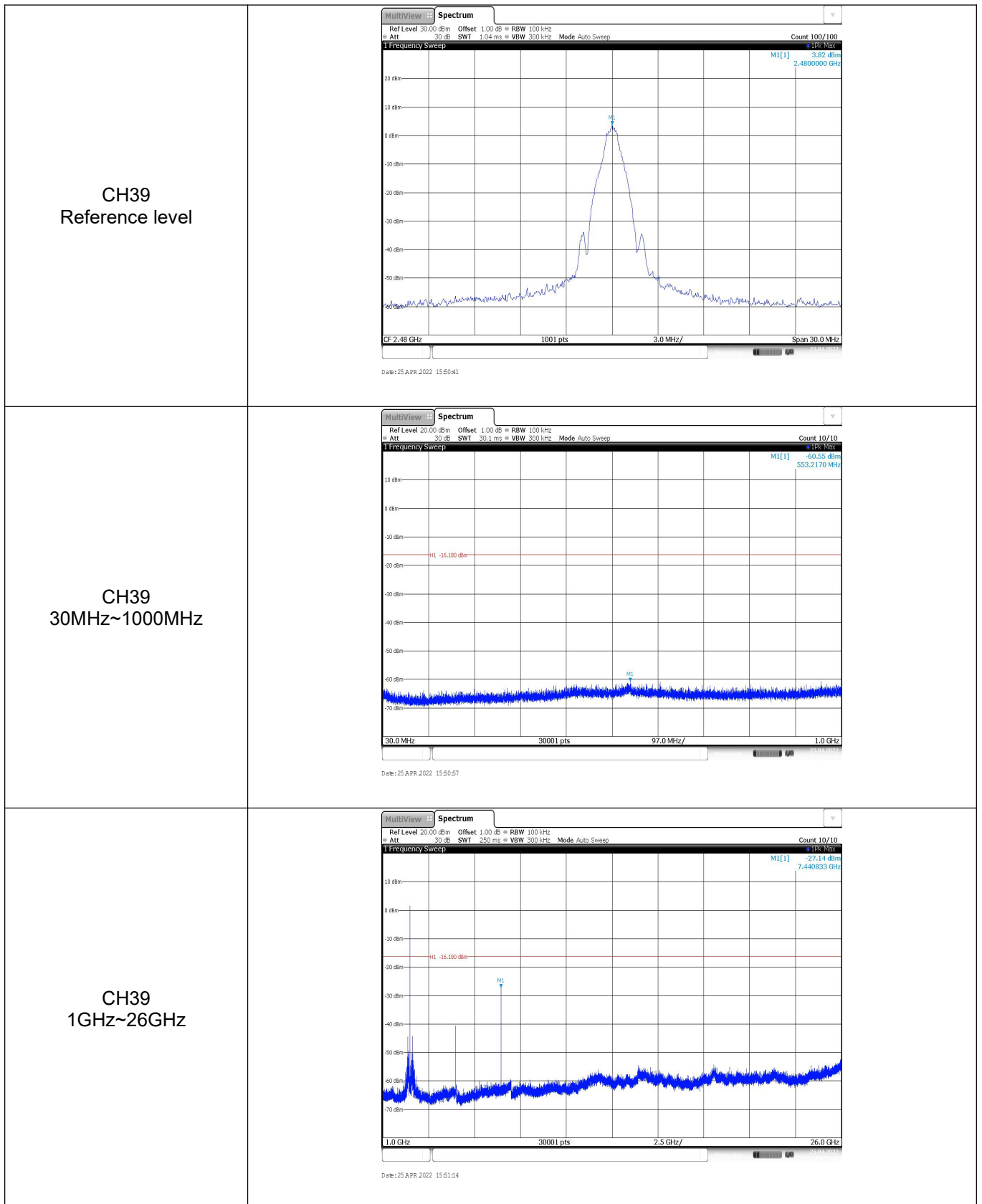


CH19
30MHz~1000MHz



CH19
1GHz~26GHz





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