

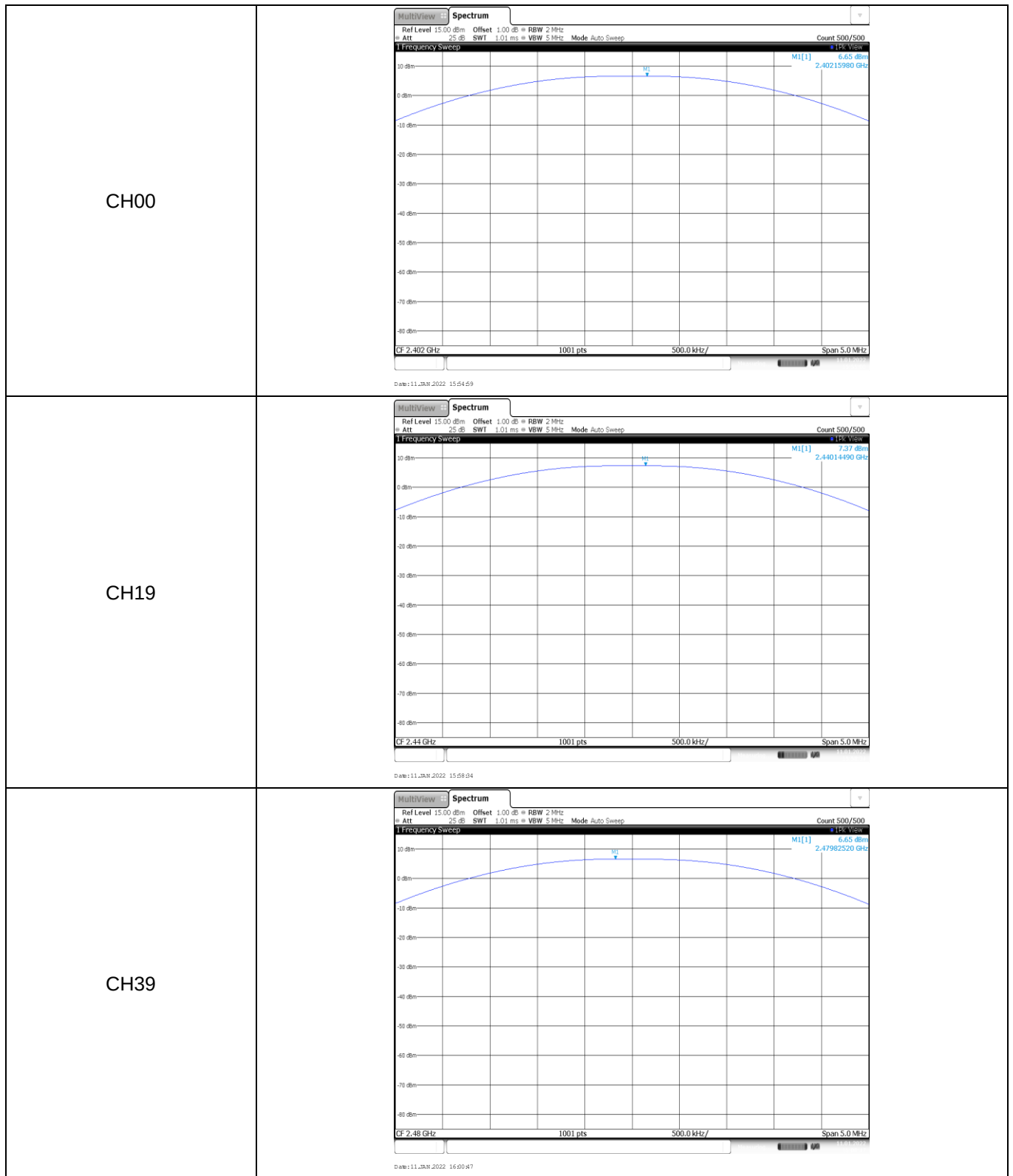
APPENDIX REPORT

Project No.	SHT2112116401EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21121164004	Model No.	SH2-ADAA
Start test date	2022-1-11	Finish date	2022-1-12
Temperature	24.6℃	Humidity	38%
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

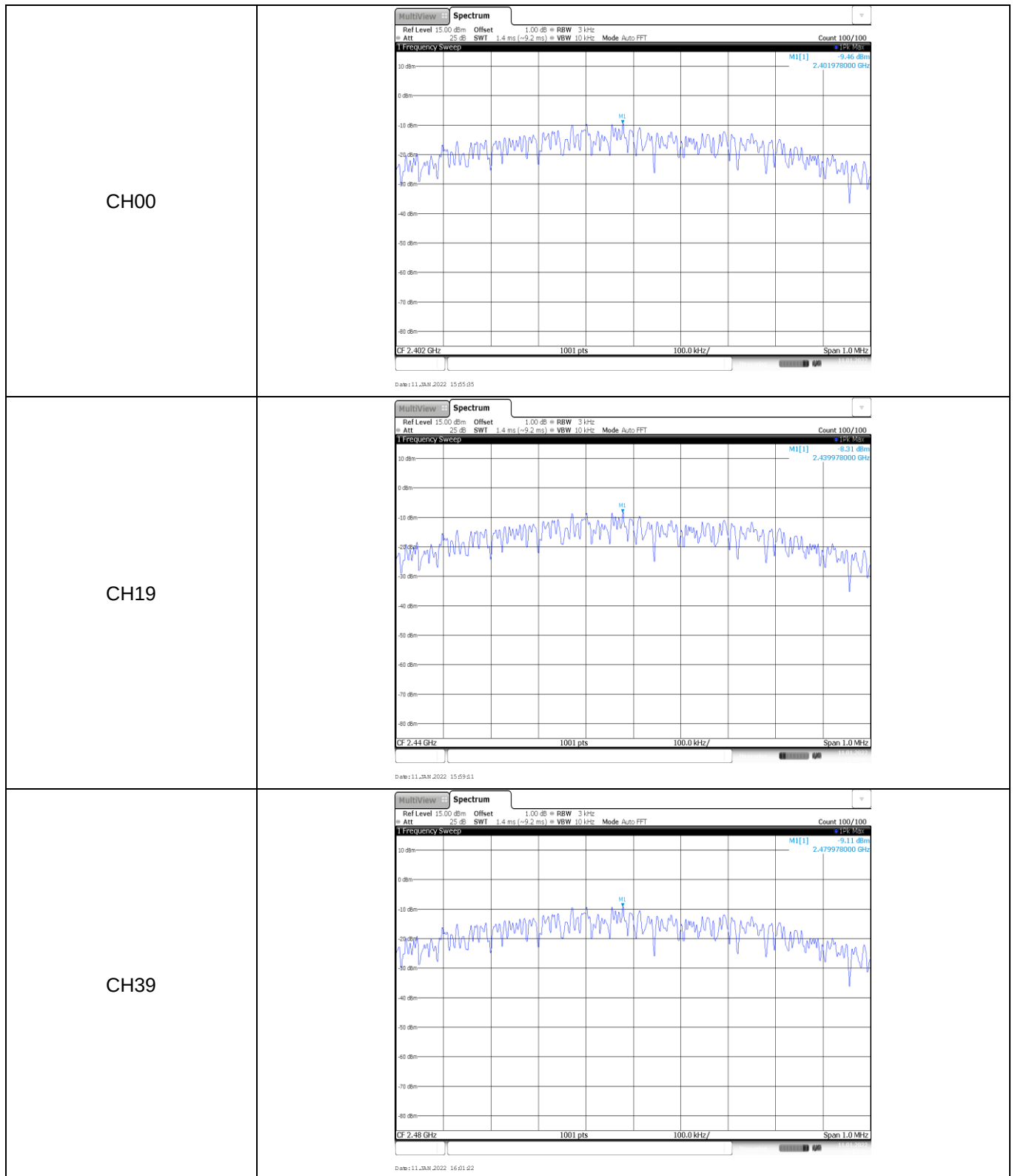
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	6.65	6.55	≤ 30.00	Pass
	19	7.37	7.29		
	39	6.65	6.52		



Appendix B: Power Spectral Density

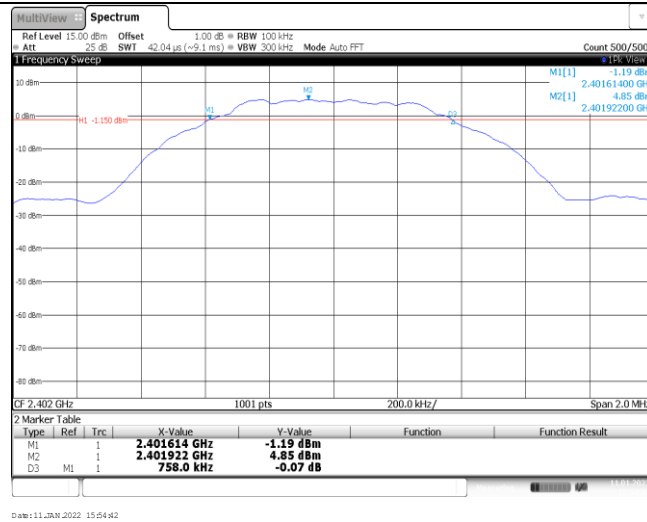
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-9.46	≤8.00	Pass
	19	-8.31		
	39	-9.11		



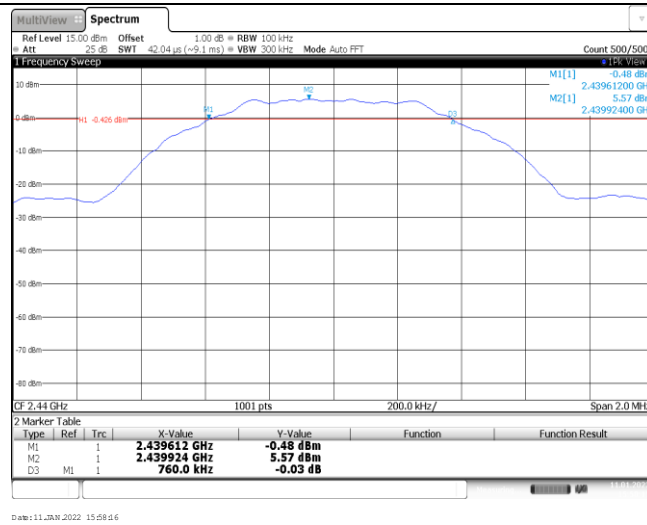
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	758.00	≥500	Pass
	19	760.00		
	39	768.00		

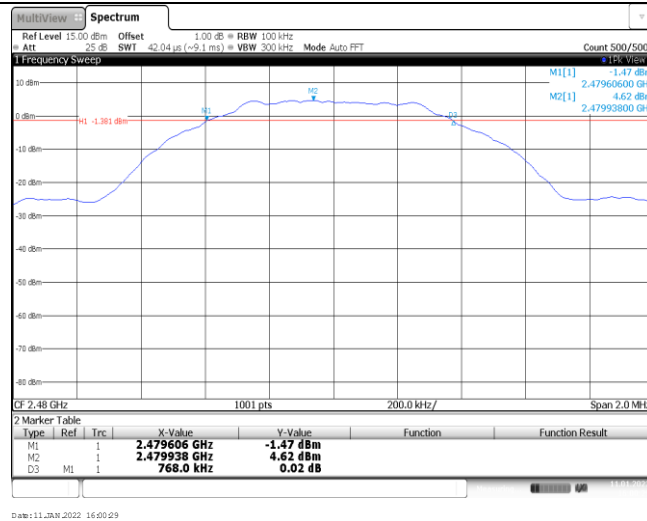
CH00



CH19



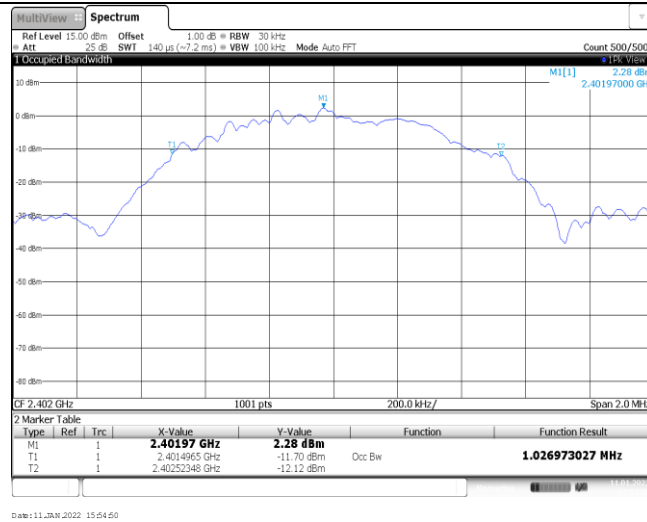
CH39



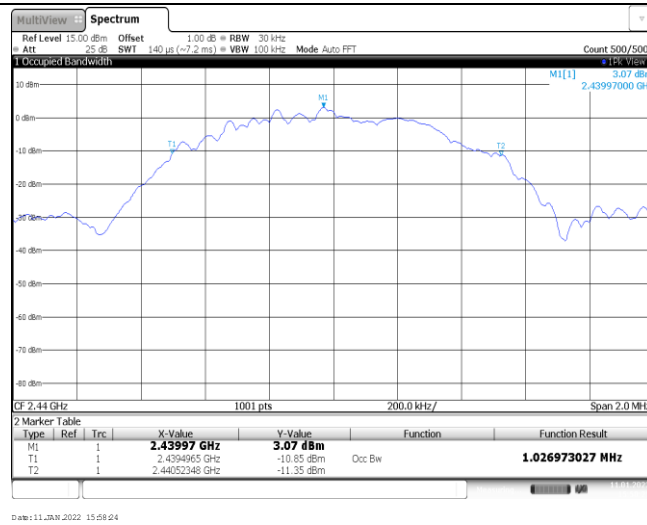
Appendix D: 99% Occupied Bandwidth

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

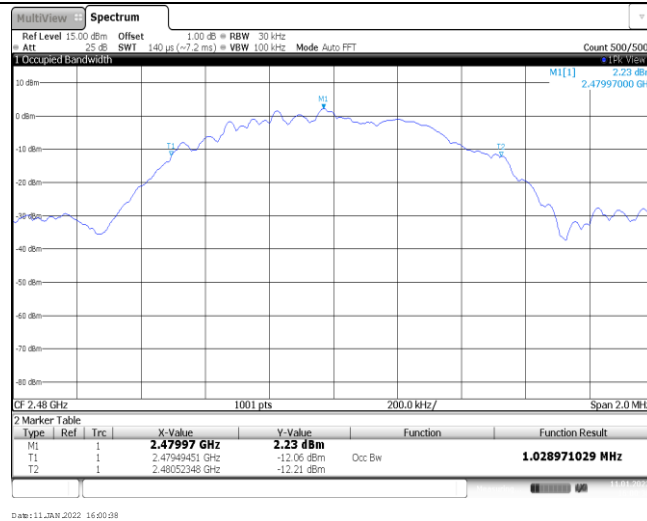
CH00



CH19

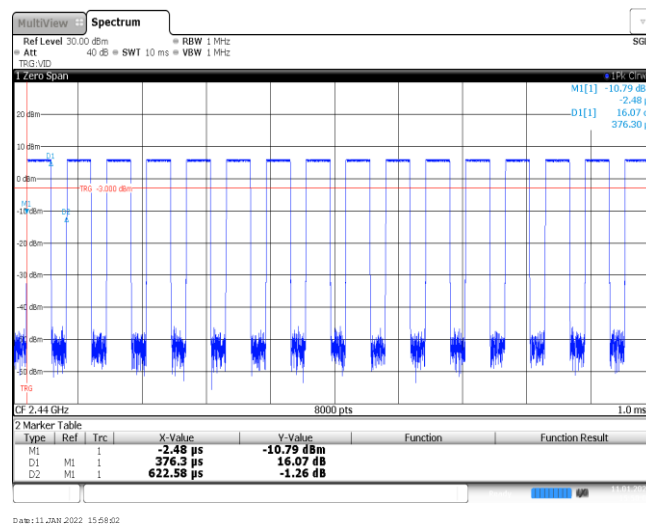


CH39



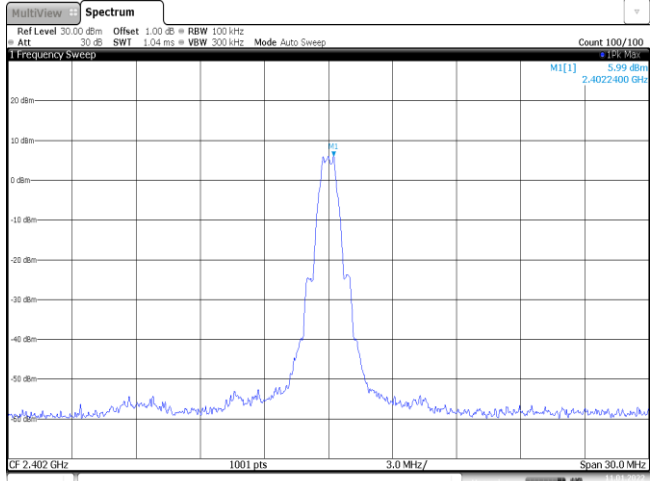
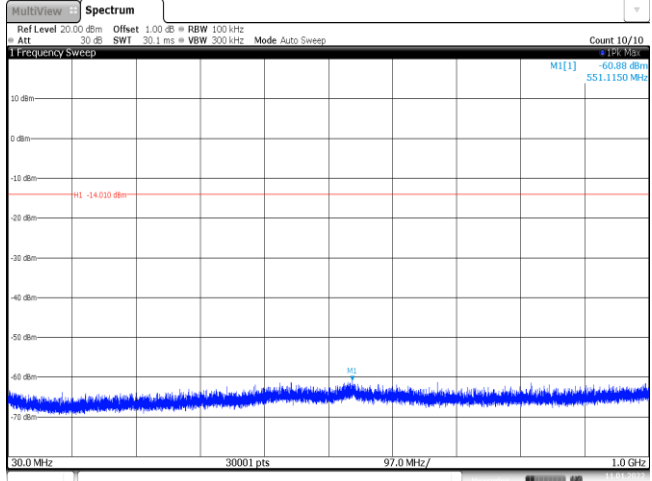
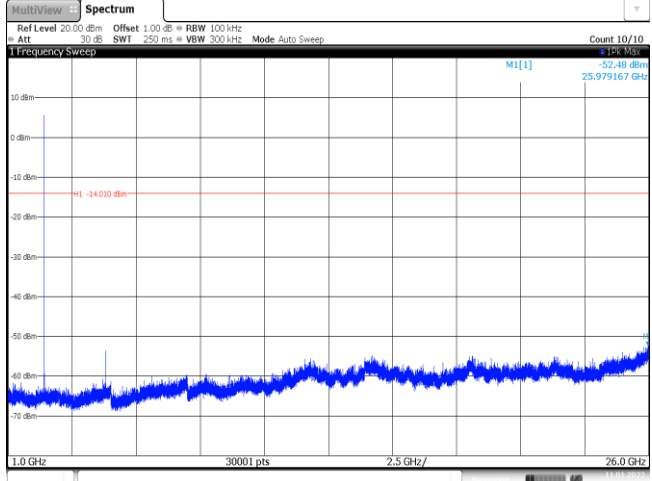
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.38	0.62	61.3%	2.63

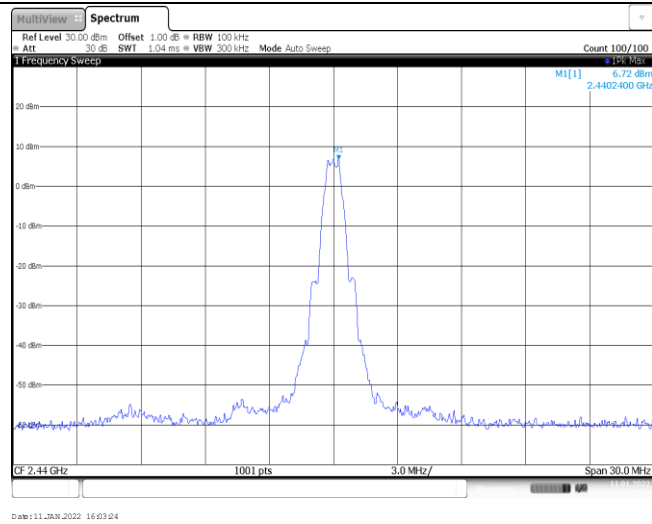


Appendix F: Band edge and Spurious Emissions (conducted)

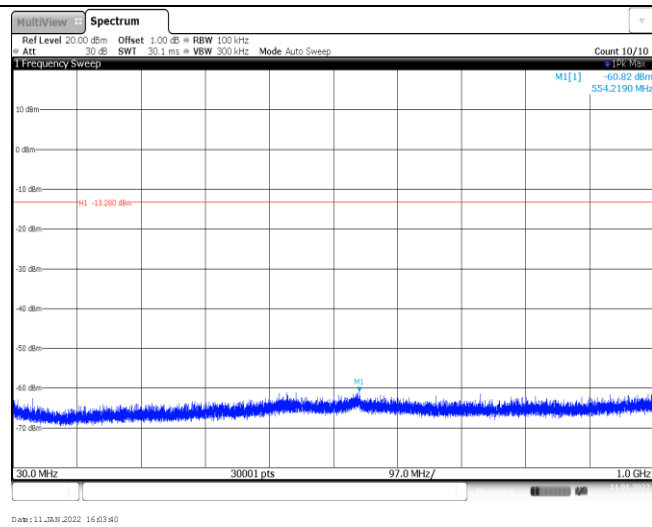
Test Item:	Band edge																																										
CH00	MultiView Spectrum Ref Level 15.00 dBm Offset 1.00 dB RBW 100 kHz ATT 25 dB SWT 1.05 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz M1[1] 5.72 dBm M2[1] -56.89 dBm M3[1] -66.97 dBm M4[1] -69.70 dBm M5[1] -55.60 dBm M1 -14.200 dBm 2 Marker Table <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>2.4022 GHz</td><td>5.72 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-56.89 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-66.97 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-69.70 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.39778 GHz</td><td>-55.60 dBm</td><td></td><td></td></tr></table> Date: 11_JAN 2022 15:55:45	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4022 GHz	5.72 dBm			M2	1		2.4 GHz	-56.89 dBm			M3	1		2.39 GHz	-66.97 dBm			M4	1		2.31 GHz	-69.70 dBm			M5	1		2.39778 GHz	-55.60 dBm		
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CH39	MultiView Spectrum Ref Level 15.00 dBm Offset 1.00 dB RBW 100 kHz ATT 25 dB SWT 1.02 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm 2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz M1[1] 5.61 dBm M2[1] -61.35 dBm M3[1] -69.21 dBm M4[1] -58.03 dBm M1 -14.900 dBm 2 Marker Table <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>5.61 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.48335 GHz</td><td>-61.35 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-69.21 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.484468 GHz</td><td>-58.03 dBm</td><td></td><td></td></tr></table> Date: 11_JAN 2022 16:01:02	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479989 GHz	5.61 dBm			M2	1		2.48335 GHz	-61.35 dBm			M3	1		2.5 GHz	-69.21 dBm			M4	1		2.484468 GHz	-58.03 dBm									
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M4	1		2.484468 GHz	-58.03 dBm																																							

Test Item:	SE
CH00 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 5.99 dBm 2.402400 GHz 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 11 JAN 2022 15:56:00
CH00 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -60.88 dBm 551.1150 MHz 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 11 JAN 2022 15:56:16
CH00 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -52.48 dBm 25.979167 GHz 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 11 JAN 2022 15:56:33

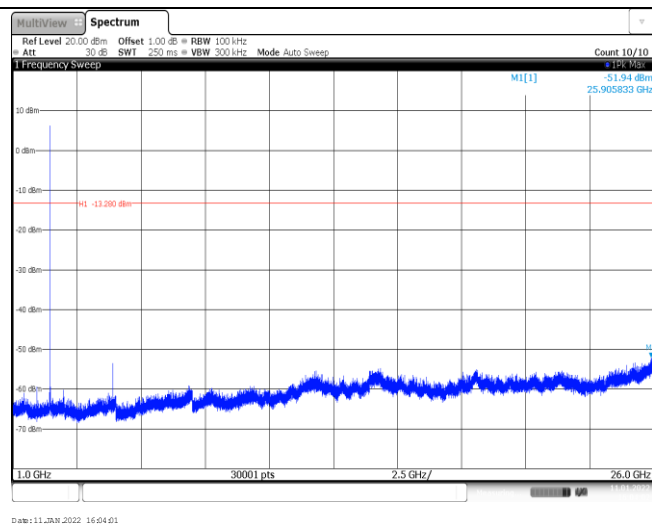
CH19
Reference level

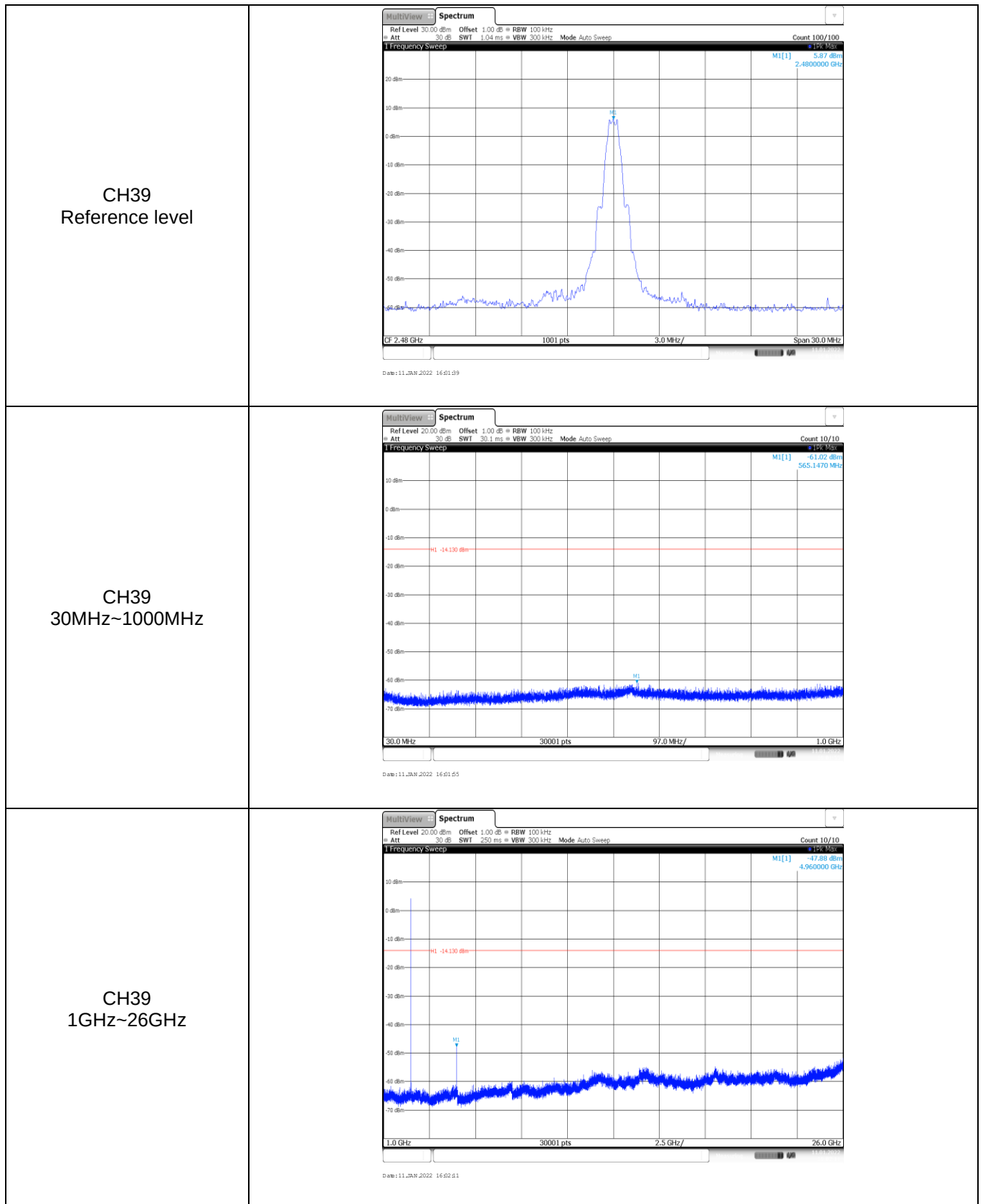


CH19
30MHz~1000MHz



CH19
1GHz~26GHz





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