

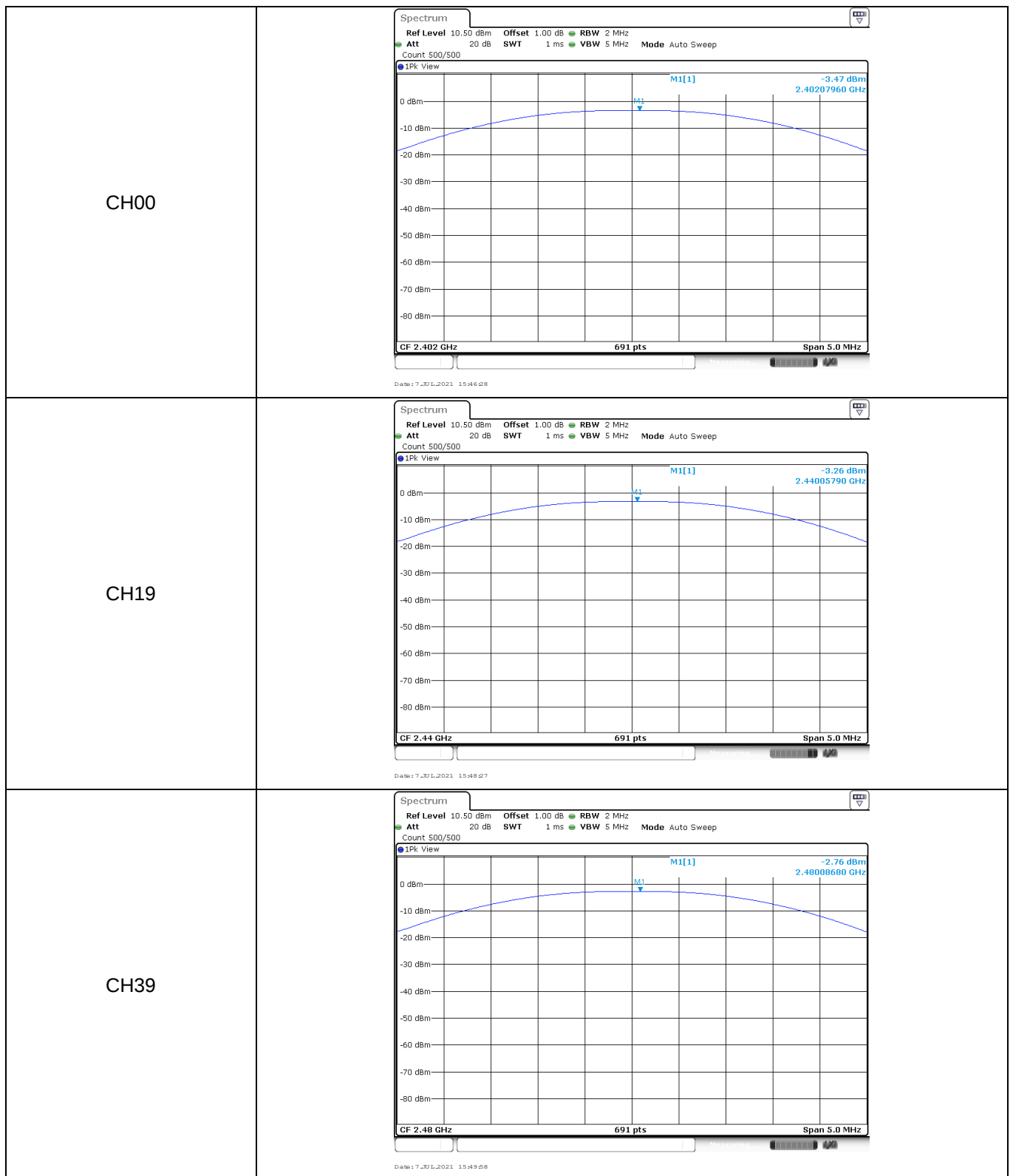
APPENDIX REPORT

Project No.	SHT2107001005EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21070010013	Model No.	L610
Start test date	2021-07-07	Finish date	2021-07-07
Temperature	25.8°C	Humidity	34%
Test Engineer	Qizhi Zhang	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

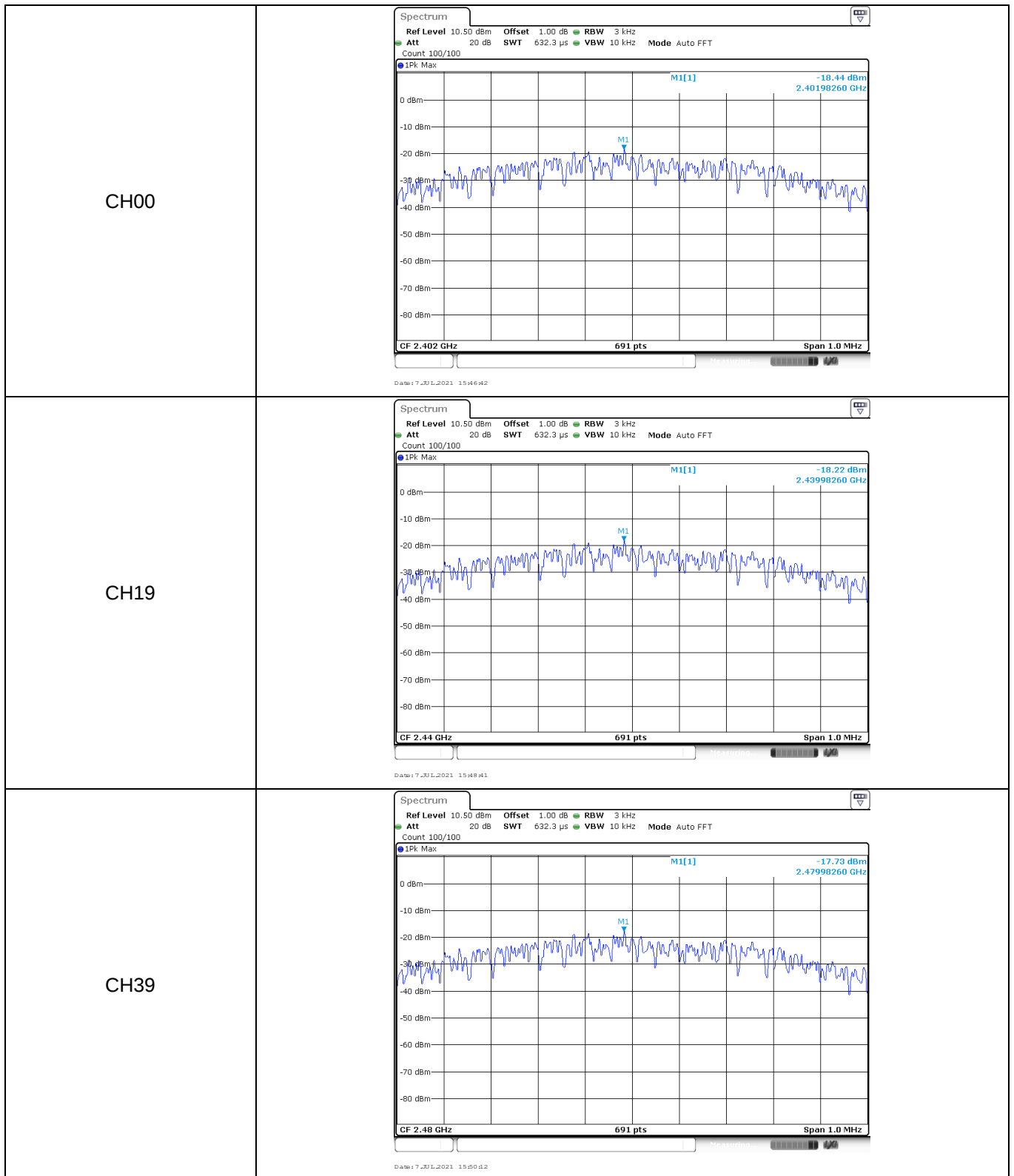
Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-3.47	-3.48	≤ 30.00	Pass
	19	-3.26	-3.27		
	39	-2.76	-2.77		



Appendix B: Power Spectral Density

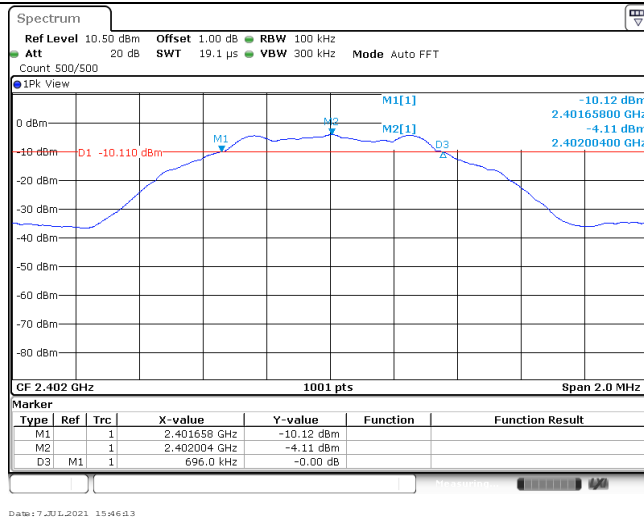
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-18.44	≤8.00	Pass
	19	-18.22		
	39	-17.73		



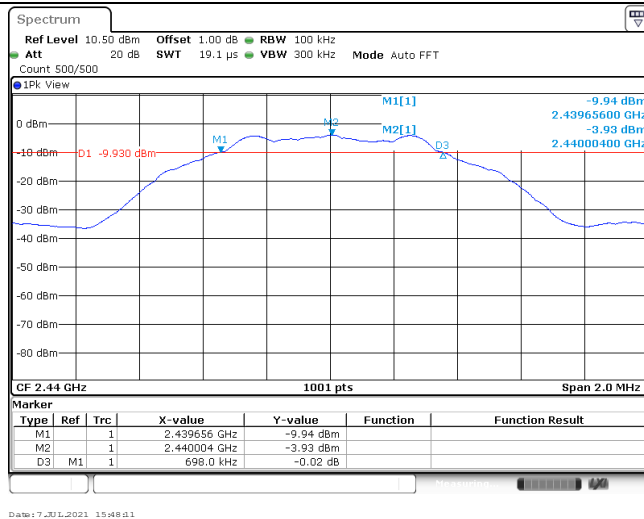
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	696.00	≥500	Pass
	19	698.00		
	39	696.00		

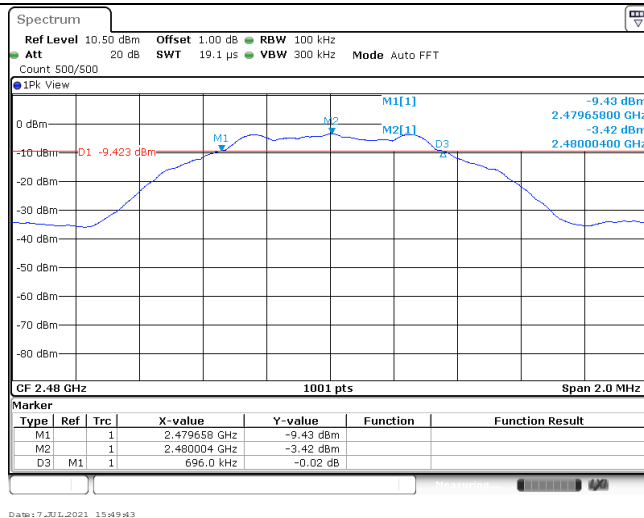
CH00



CH19

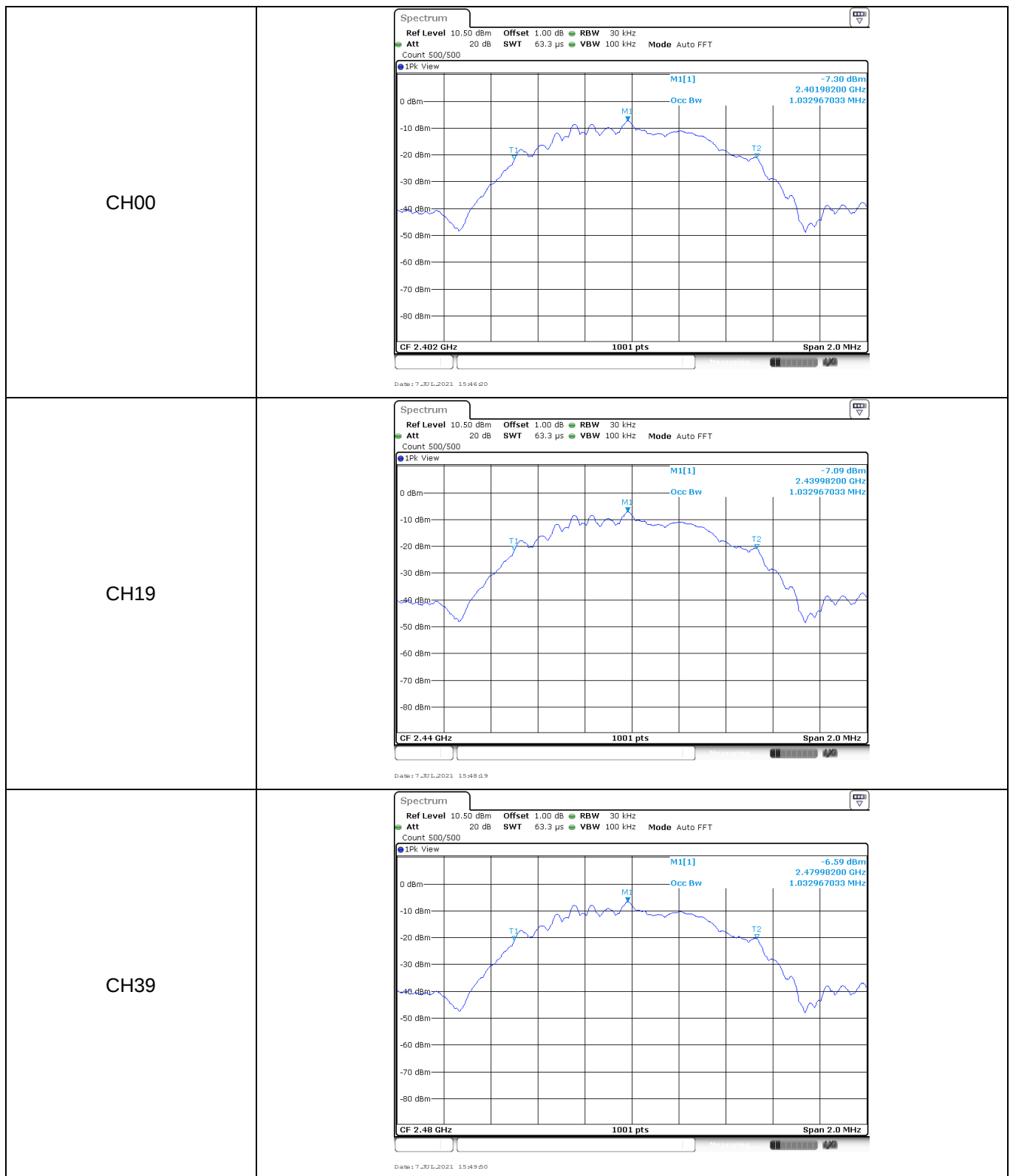


CH39



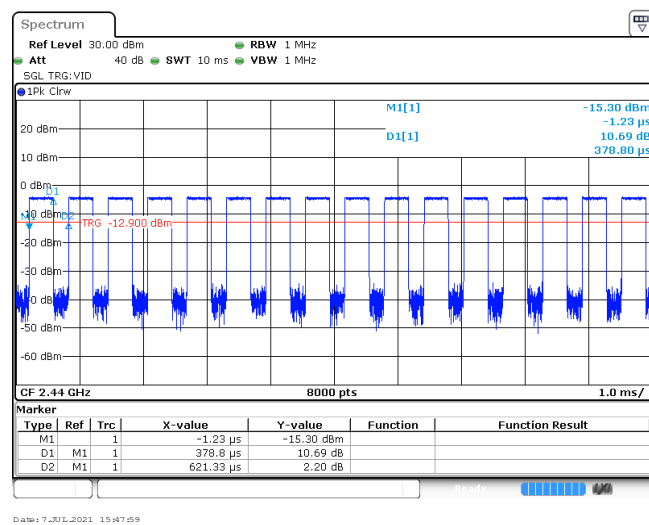
Appendix D: 99% Occupied Bandwidth

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



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

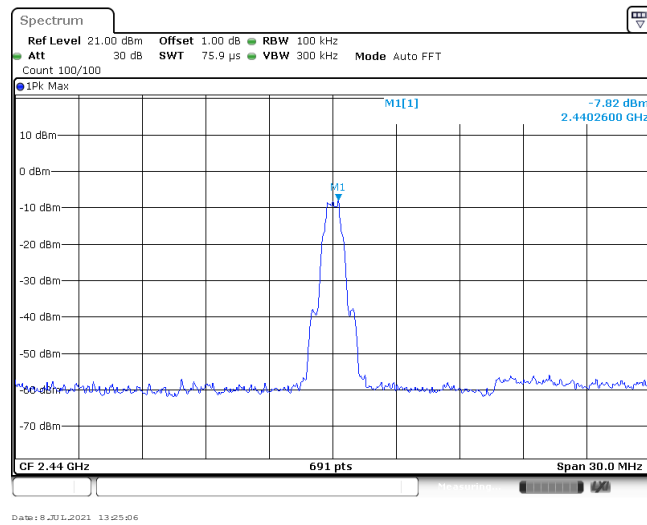


Appendix F: Band edge and Spurious Emissions (conducted)

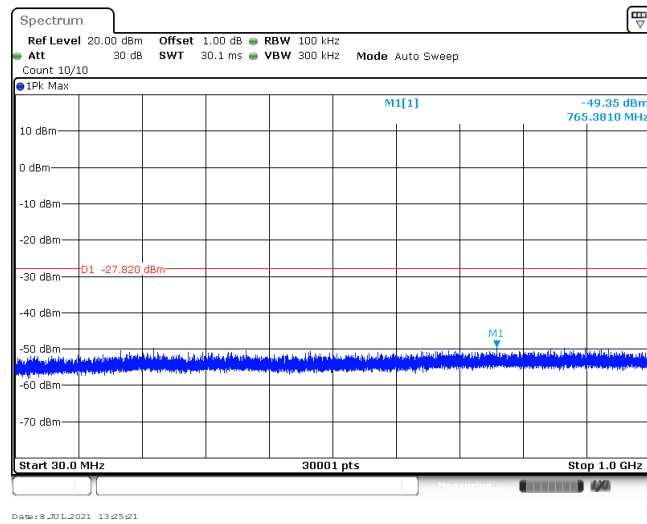
Test Item:	Band edge																																										
CH00	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1Pk Max 0 dBm M1[1] -4.15 dBm 2.402320 GHz -10 dBm M2[1] -61.50 dBm 2.400000 GHz -20 dBm D1 -24.150 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm Start 2.31 GHz 691 pts Stop 2.405 GHz Marker <table><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></td><td>1</td><td>2.40232 GHz</td><td>-4.15 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.4 GHz</td><td>-61.50 dBm</td><td></td><td></td></tr><tr><td>M3</td><td></td><td>1</td><td>2.39 GHz</td><td>-63.40 dBm</td><td></td><td></td></tr><tr><td>M4</td><td></td><td>1</td><td>2.31 GHz</td><td>-63.88 dBm</td><td></td><td></td></tr><tr><td>M5</td><td></td><td>1</td><td>2.393986 GHz</td><td>-60.39 dBm</td><td></td><td></td></tr></tbody></table> Date: 7_JUL_2021 15:46:51	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40232 GHz	-4.15 dBm			M2		1	2.4 GHz	-61.50 dBm			M3		1	2.39 GHz	-63.40 dBm			M4		1	2.31 GHz	-63.88 dBm			M5		1	2.393986 GHz	-60.39 dBm		
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CH39	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max 0 dBm M1 -3.46 dBm 2.4799900 GHz -10 dBm M2[1] -67.73 dBm 2.4835000 GHz -20 dBm D1 -23.460 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm Start 2.478 GHz 691 pts Stop 2.5 GHz Marker <table><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></td><td>1</td><td>2.47999 GHz</td><td>-3.46 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.4835 GHz</td><td>-67.73 dBm</td><td></td><td></td></tr><tr><td>M3</td><td></td><td>1</td><td>2.5 GHz</td><td>-67.11 dBm</td><td></td><td></td></tr><tr><td>M4</td><td></td><td>1</td><td>2.4978638 GHz</td><td>-65.92 dBm</td><td></td><td></td></tr></tbody></table> Date: 7_JUL_2021 15:50:21	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.47999 GHz	-3.46 dBm			M2		1	2.4835 GHz	-67.73 dBm			M3		1	2.5 GHz	-67.11 dBm			M4		1	2.4978638 GHz	-65.92 dBm									
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Test Item:	SE
CH00 Reference level	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 1Pk Max M1[1] -6.21 dBm 2.4022600 GHz CF 2.402 GHz 691 pts Span 30.0 MHz Date: 8/20/2021 13:24:06
CH00 30MHz~1000MHz	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 1Pk Max M1[1] -47.93 dBm 863.7360 MHz D1 -26.210 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 8/20/2021 13:24:31
CH00 1GHz~26GHz	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 1Pk Max M1[1] -41.69 dBm 15.789167 GHz D1 -26.210 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 8/20/2021 13:24:46

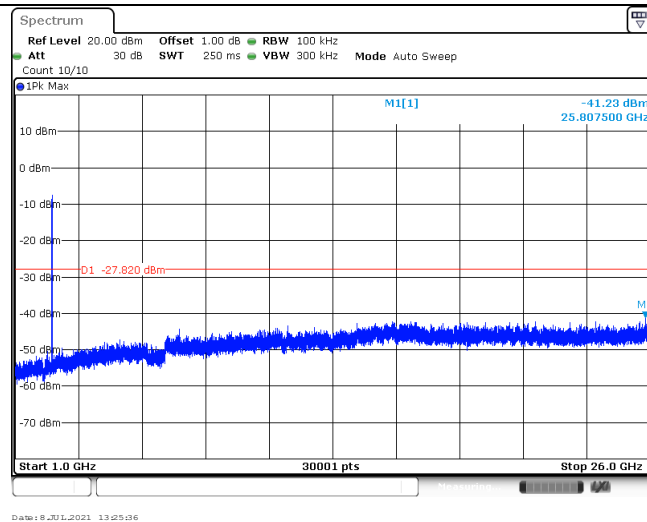
CH19
Reference level

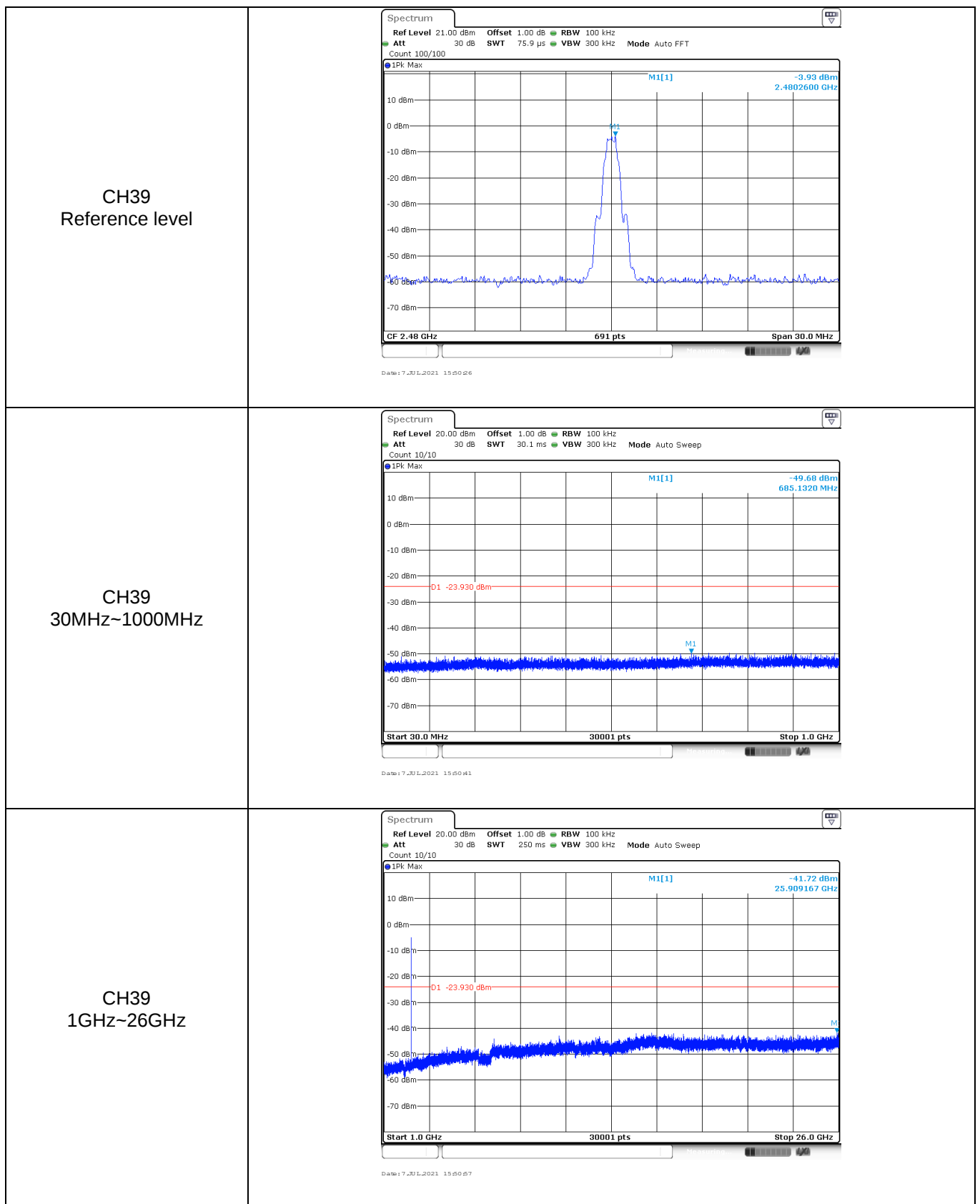


CH19
30MHz~1000MHz



CH19
1GHz~26GHz





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