

APPENDIX REPORT

Project No.	SHT2012072601EW	Radio Specification	Bluetooth BLE
Test sample No.	SHT2012072602-1	Model No.	L7B
Start test date	2020/12/25	Finish date	2020/12/25
Temperature	21.9°C	Humidity	35%
Test Engineer	Qizhi Zhang	Auditor	Xiaodong Zheo

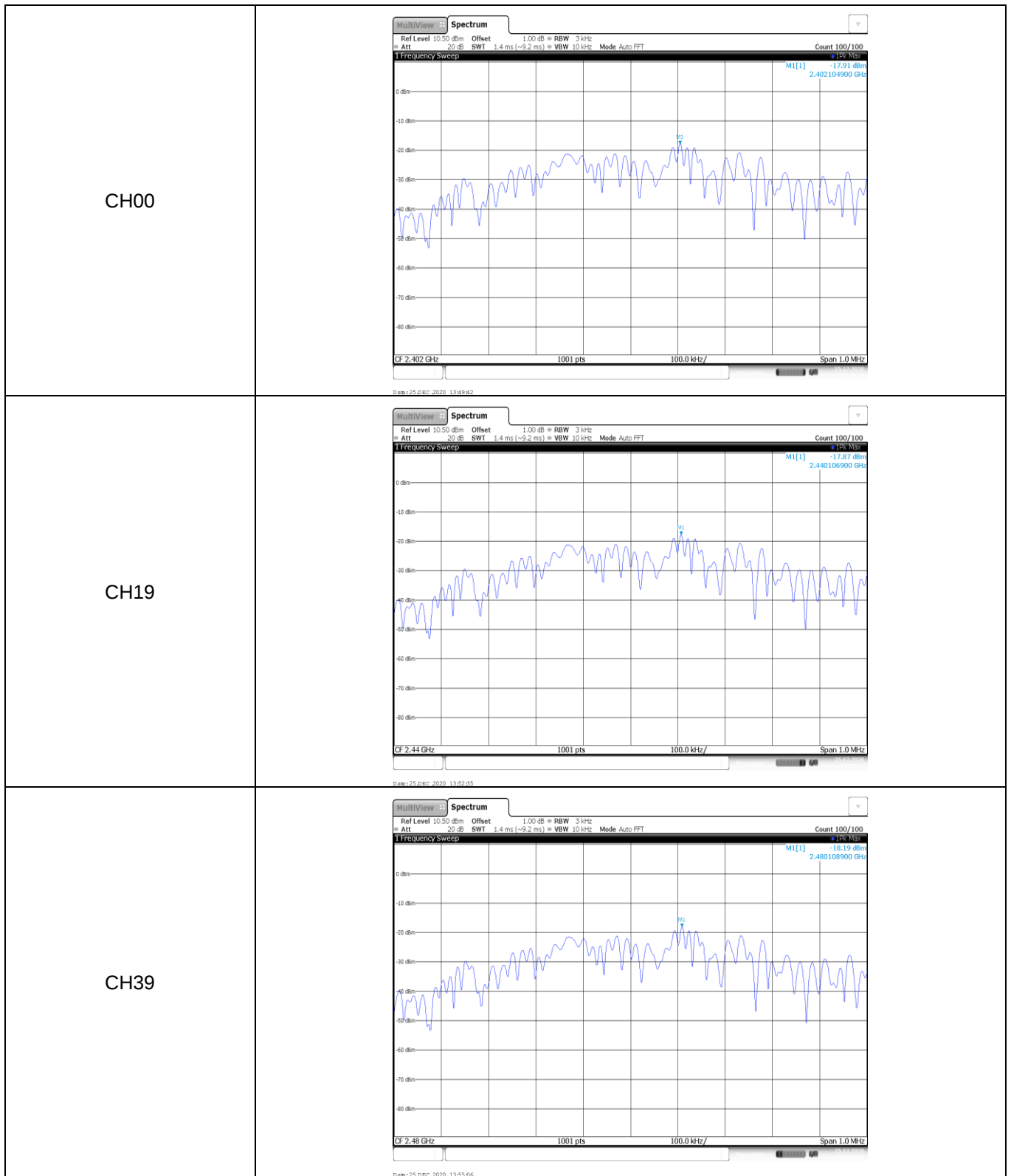
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	0.73	0.72	≤ 30.00	Pass
	19	0.67	0.66		
	39	0.44	0.42		

Appendix B: Power Spectral Density

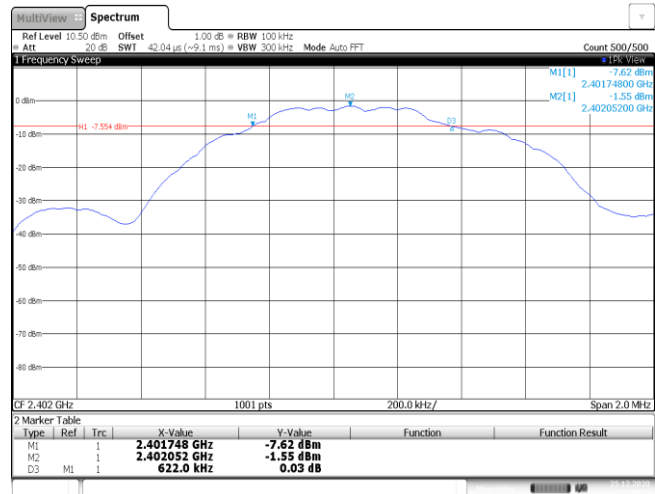
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-17.91	≤8.00	Pass
	19	-17.87		
	39	-18.19		



Appendix C: 6dB bandwidth

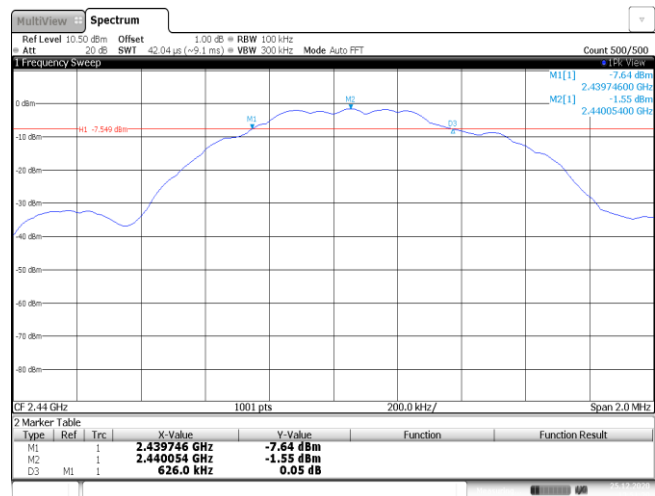
Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	622.00	≥500	Pass
	19	626.00		
	39	618.00		

CH00



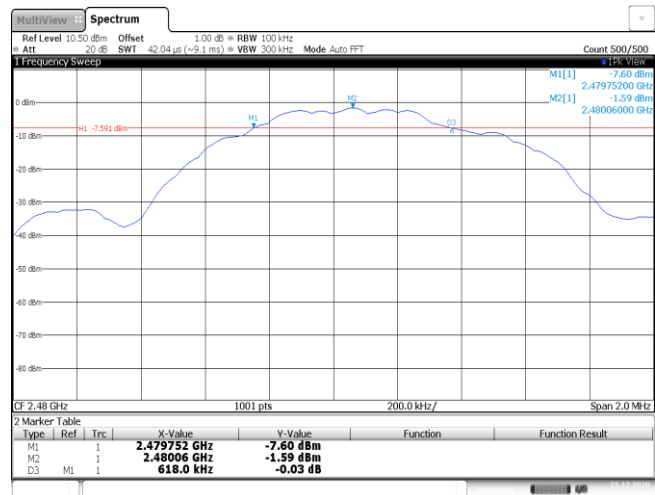
Date: 25 DEC 2020 13:49:18

CH19



Date: 25 DEC 2020 13:51:20

CH39



Date: 25 DEC 2020 13:53:48

Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.01	-	Pass
	19	1.01		
	39	1.01		

CH00



CH19

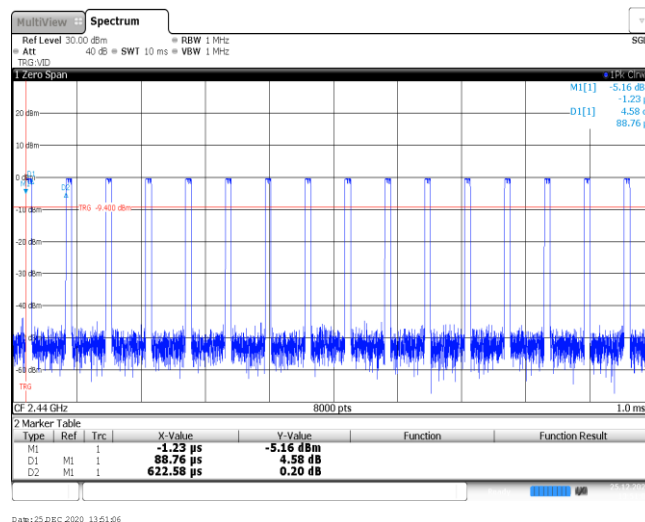


CH39



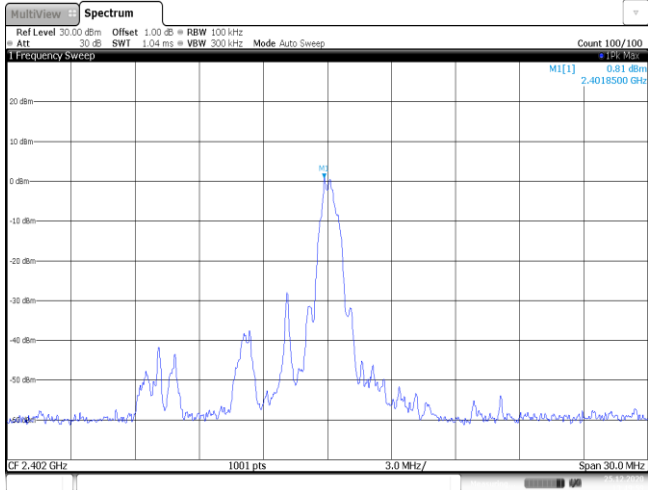
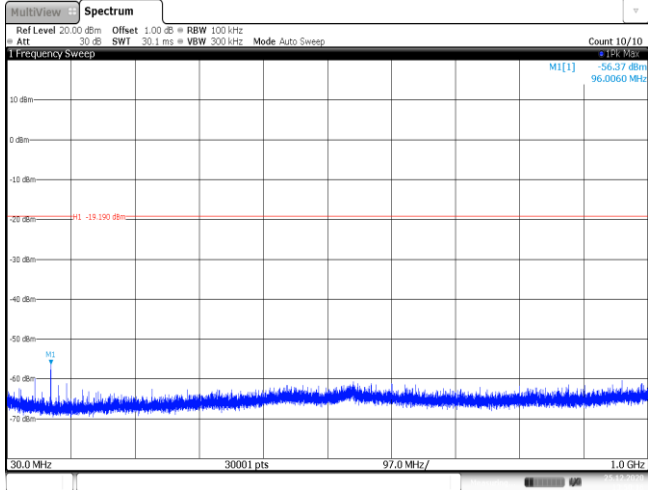
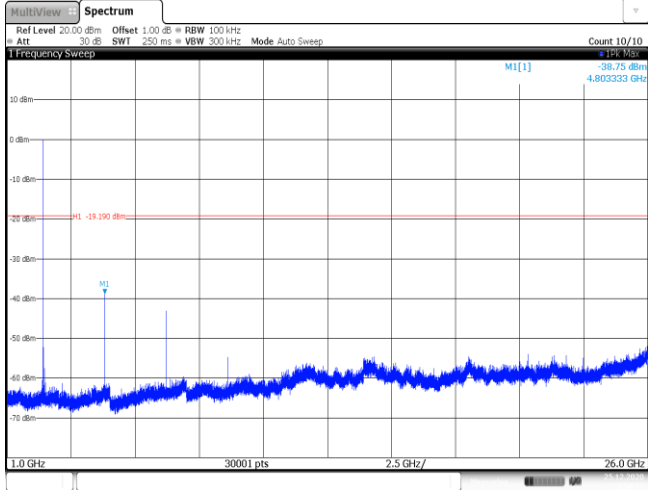
Appendix E: Duty cycle

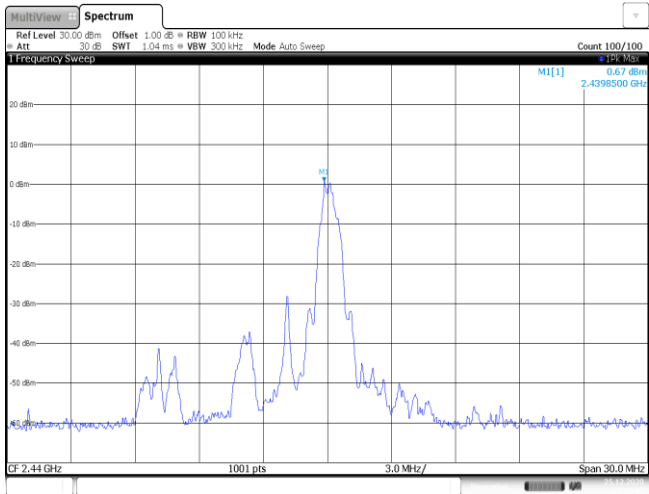
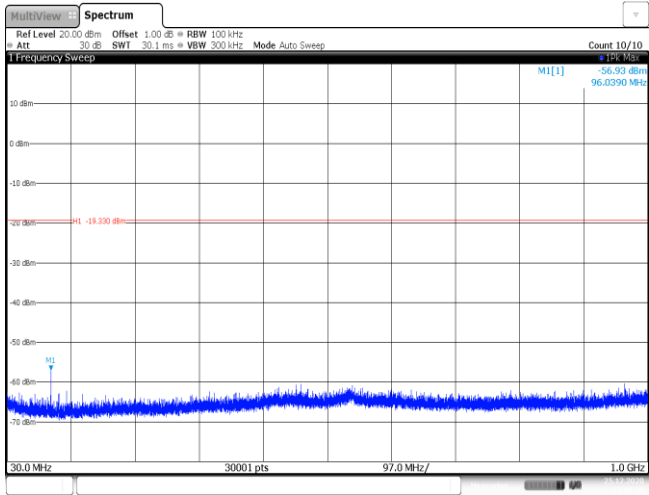
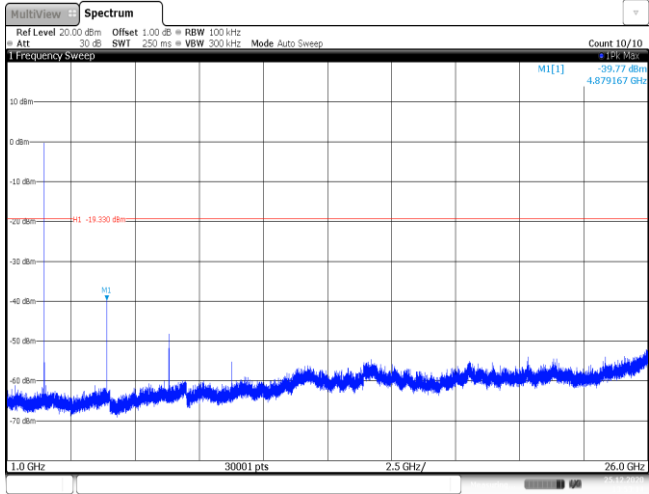
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.09	0.62	14.5%	11.1

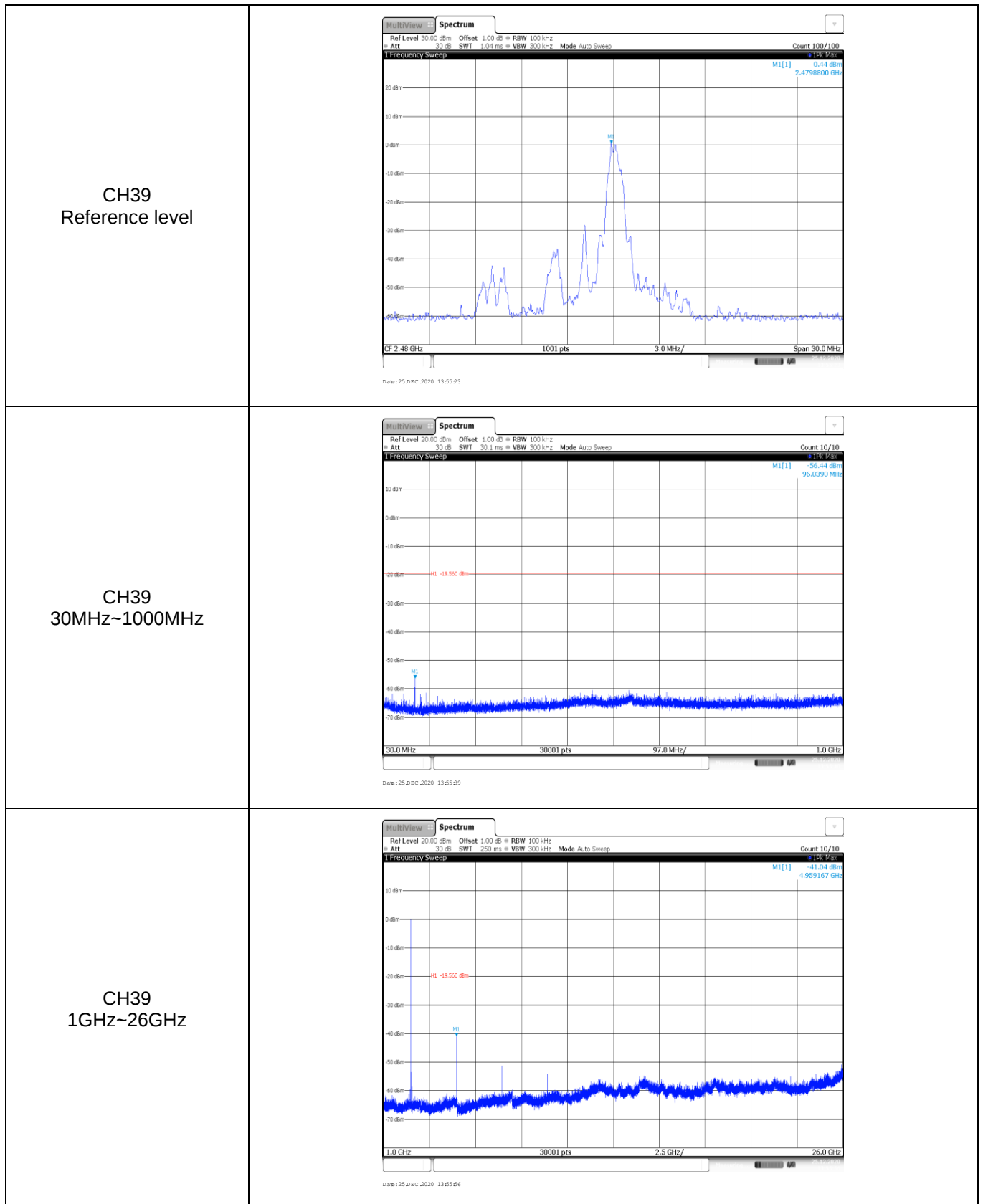


Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge
CH00	</

Test Item:	SE
CH00 Reference level	 The spectrum plot shows a single prominent peak at 2.4018500 GHz. The y-axis represents power in dBm, ranging from -70 to 20. The x-axis represents frequency in MHz, ranging from 2.402 to 2.403. The plot is titled 'Spectrum' and 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 peak is labeled M1[1] with a value of 0.81 dBm.
CH00 30MHz~1000MHz	 The spectrum plot shows a noise floor across the 30MHz~1000MHz range. The y-axis represents power in dBm, ranging from -70 to 20. The x-axis represents frequency in MHz, ranging from 30.0 to 1000.0. The plot is titled 'Spectrum' and 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. A red line indicates a level of -19.190 dBm. The plot shows a blue line representing the noise floor, which is relatively flat around -60 dBm.
CH00 1GHz~26GHz	 The spectrum plot shows a noise floor across the 1GHz~26GHz range. The y-axis represents power in dBm, ranging from -70 to 20. The x-axis represents frequency in GHz, ranging from 1.0 to 26.0. The plot is titled 'Spectrum' and 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. A red line indicates a level of -19.190 dBm. The plot shows a blue line representing the noise floor, which is relatively flat around -60 dBm.

CH19 Reference level	
CH19 30MHz~1000MHz	
CH19 1GHz~26GHz	



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