

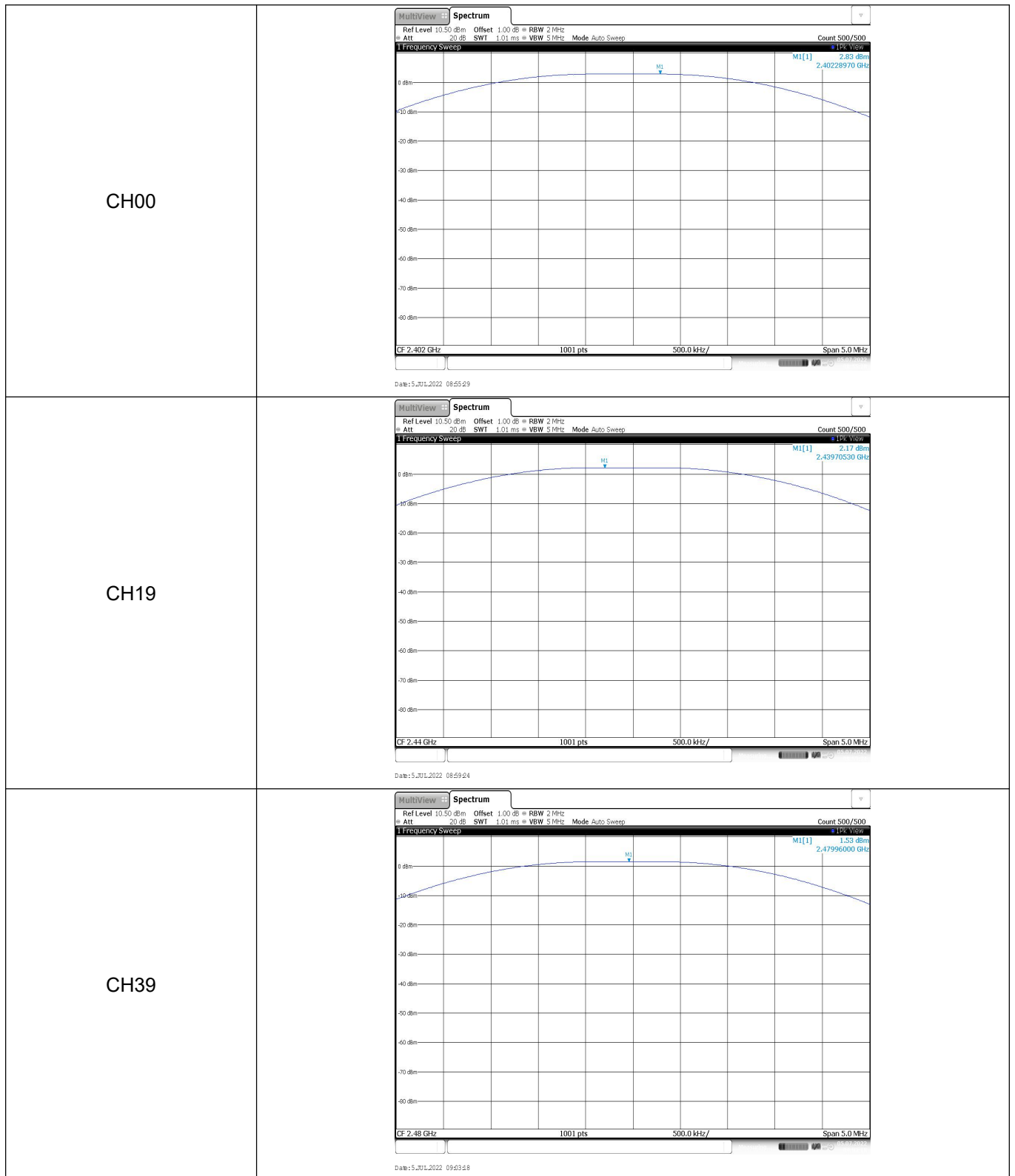
APPENDIX REPORT

Project No.	SHT2206082504EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT22060825005	Model No.	AOJ-30C
Start test date	2022-07-05	Finish date	2022-07-05
Temperature	26.1℃	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

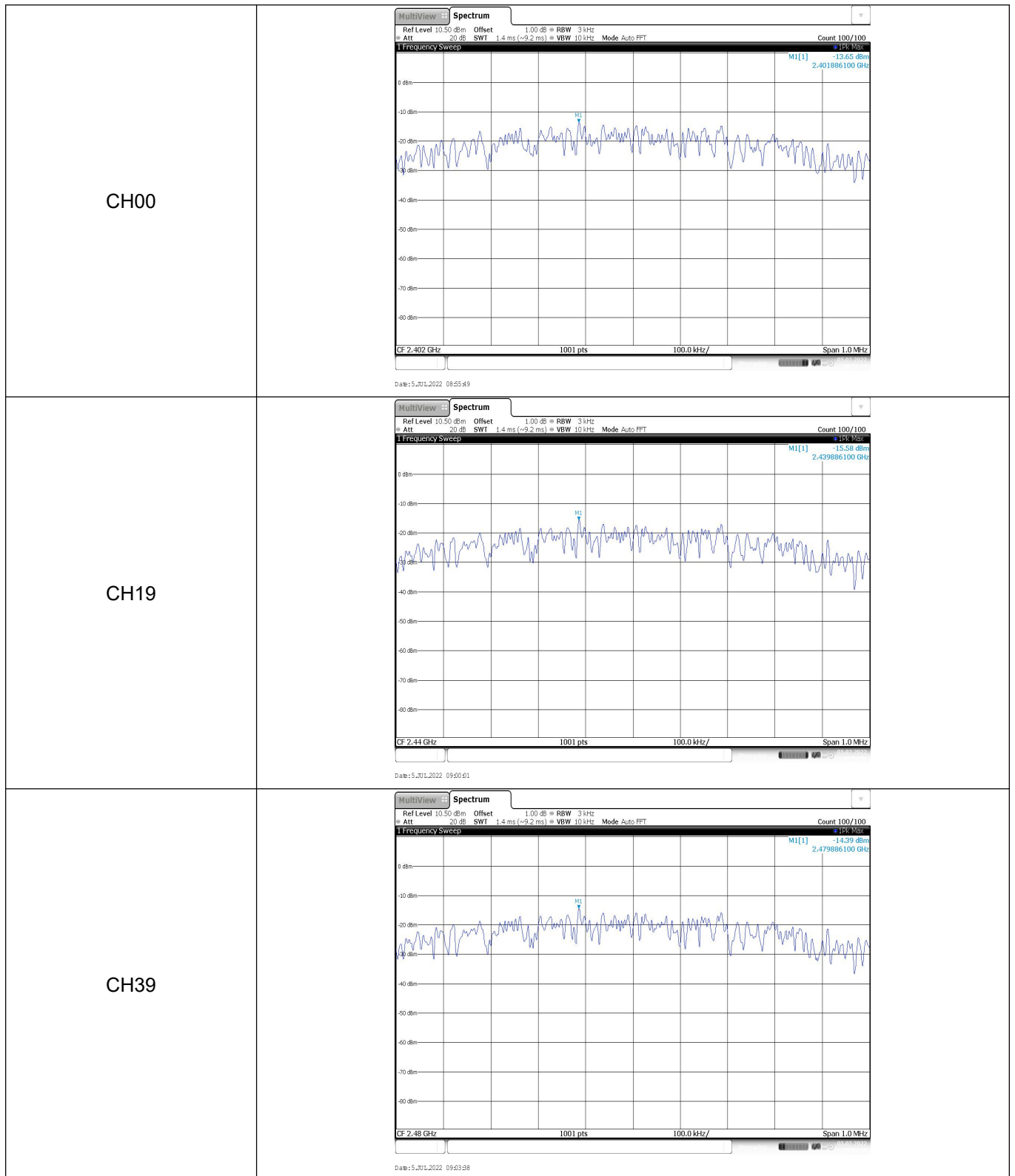
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	2.83	2.81	≤ 30.00	Pass
	19	2.17	2.16		
	39	1.53	1.52		



Appendix B: Power Spectral Density

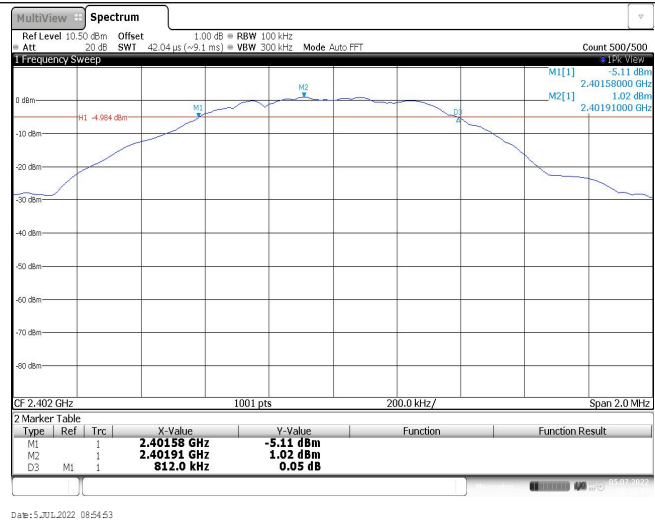
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-13.65	≤8.00	Pass
	19	-15.58		
	39	-14.37		



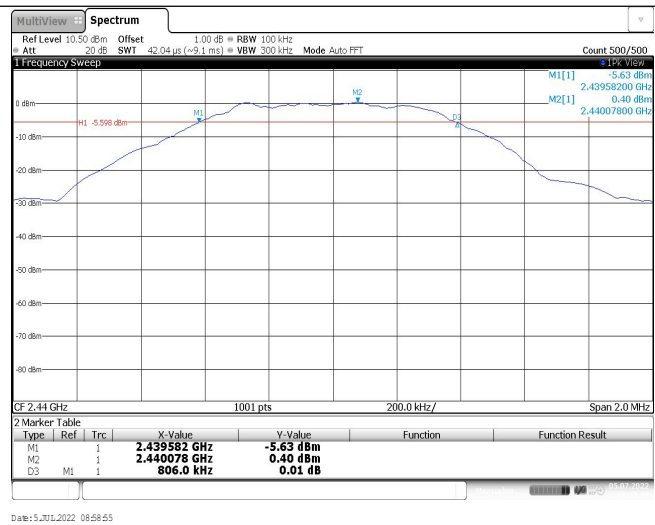
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	812.00	≥500	Pass
	19	806.00		
	39	814.00		

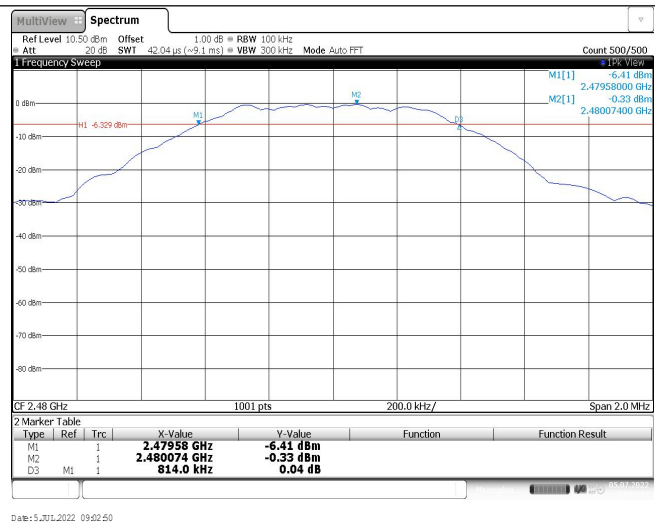
CH00



CH19



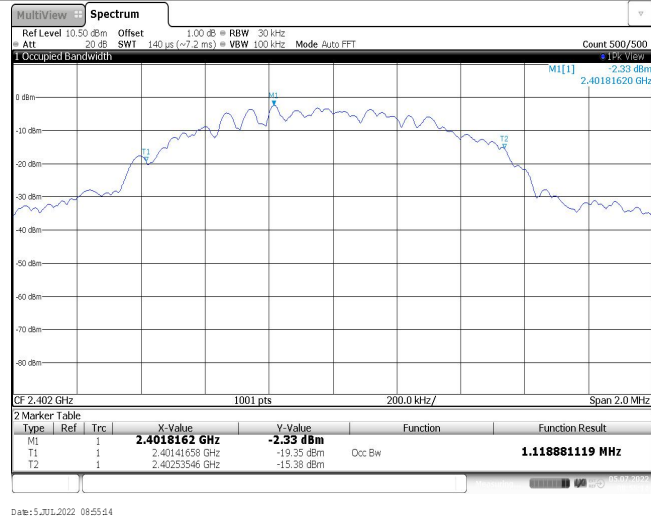
CH39



Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.12	-	Pass
	19	1.11		
	39	1.10		

CH00



CH19

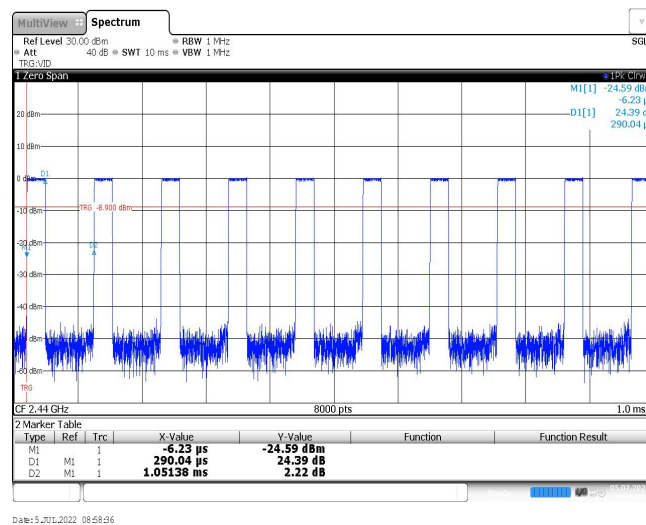


CH39



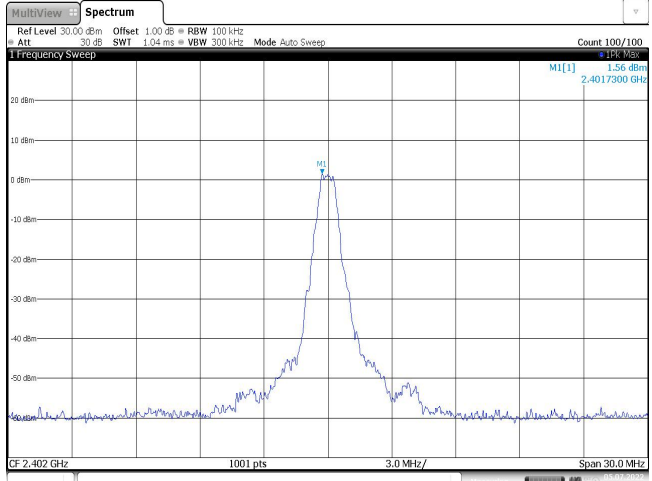
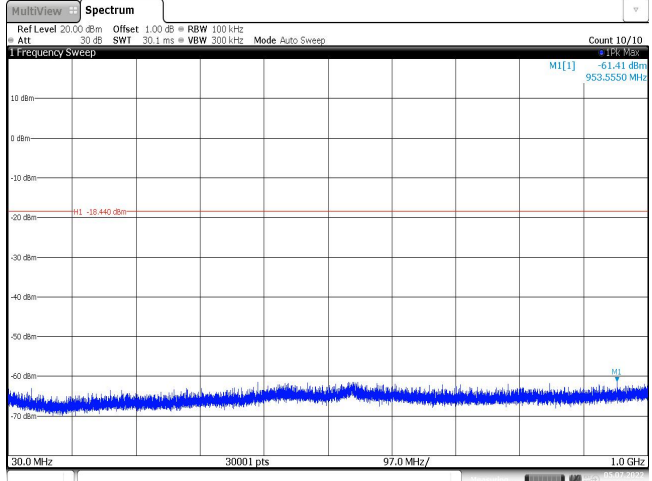
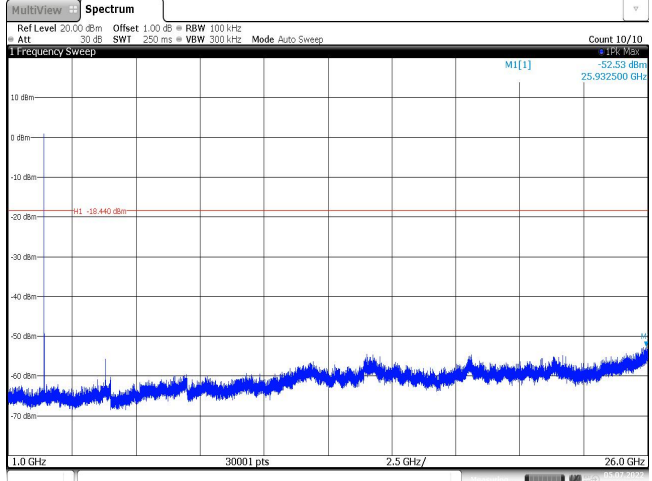
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.29	1.05	27.6%	3.45

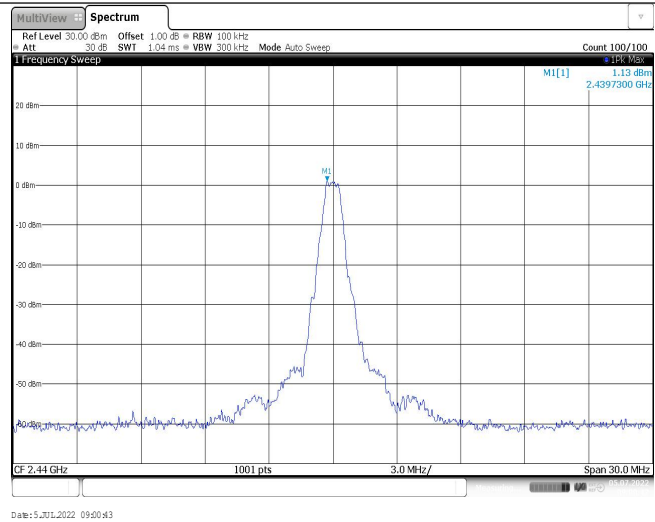


Appendix F: Band edge and Spurious Emissions (conducted)

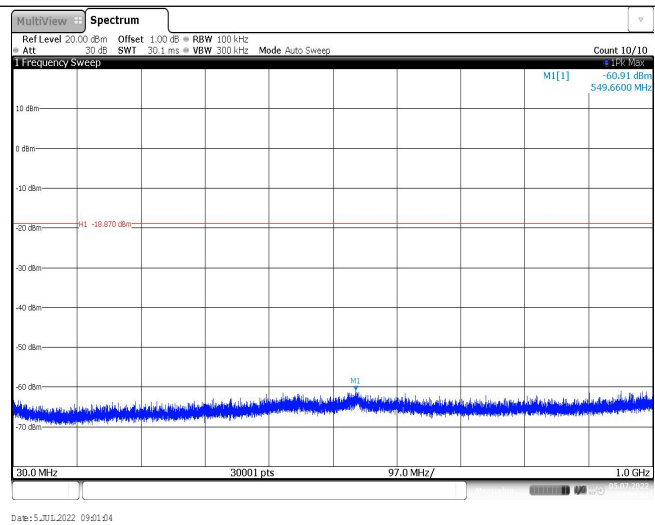
Test Item:	Band edge																																										
CH00	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.05 ms VBW 300 kHz Mode Auto Sweep Count 300/300 100 MHz 1 Frequency Sweep 8 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz M1 1.26 dBm M2 2.401726 GHz M2 1 -47.45 dBm M2 1 2.400000 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>2.401726 GHz</td><td>1.26 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-47.45 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-71.43 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-73.93 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-47.34 dBm</td><td></td><td></td></tr></table> Date: 5 JUL 2022 08:56:05	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401726 GHz	1.26 dBm			M2	1		2.4 GHz	-47.45 dBm			M3	1		2.39 GHz	-71.43 dBm			M4	1		2.31 GHz	-73.93 dBm			M5	1		2.399965 GHz	-47.34 dBm		
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M1	1		2.401726 GHz	1.26 dBm																																							
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M5	1		2.399965 GHz	-47.34 dBm																																							
CH39	MultiView Spectrum 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 100/100 100 MHz 1 Frequency Sweep 8 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 0.05 dBm M1 1 2.479725 GHz M2 1 -54.76 dBm M2 1 2.483500 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>2.479725 GHz</td><td>0.05 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-54.76 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-74.10 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483632 GHz</td><td>-53.57 dBm</td><td></td><td></td></tr></table> Date: 5 JUL 2022 09:03:54	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479725 GHz	0.05 dBm			M2	1		2.4835 GHz	-54.76 dBm			M3	1		2.5 GHz	-74.10 dBm			M4	1		2.483632 GHz	-53.57 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																					
M1	1		2.479725 GHz	0.05 dBm																																							
M2	1		2.4835 GHz	-54.76 dBm																																							
M3	1		2.5 GHz	-74.10 dBm																																							
M4	1		2.483632 GHz	-53.57 dBm																																							

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] 1.56 dBm 2.4017300 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 5 JUL 2022 08:56:19
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] -61.41 dBm 953.5559 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 5 JUL 2022 08:56:40
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] -52.53 dBm 25.932500 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 5 JUL 2022 08:57:03

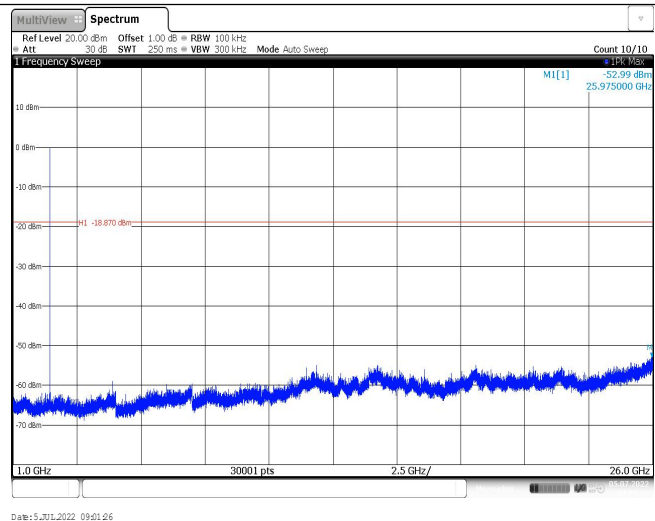
CH19
Reference level

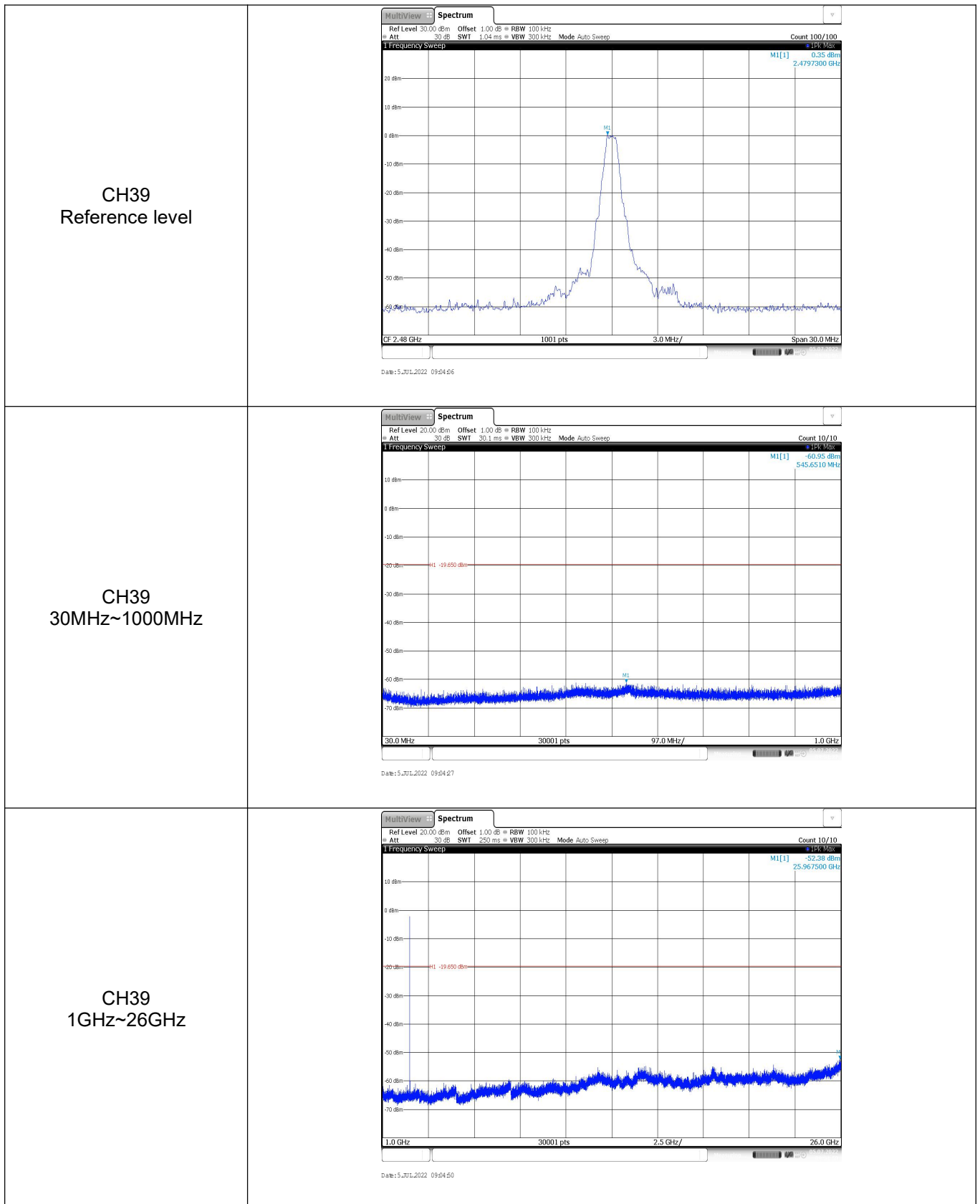


CH19
30MHz~1000MHz



CH19
1GHz~26GHz





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