

APPENDIX REPORT

Project No.	SHT2204077917EW		
Test sample No.	YPHT2204077901702	Model No.	SM9113 remote control
Start test date	2023-05-12	Finish date	2023-05-12
Temperature	24.4℃	Humidity	66%
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

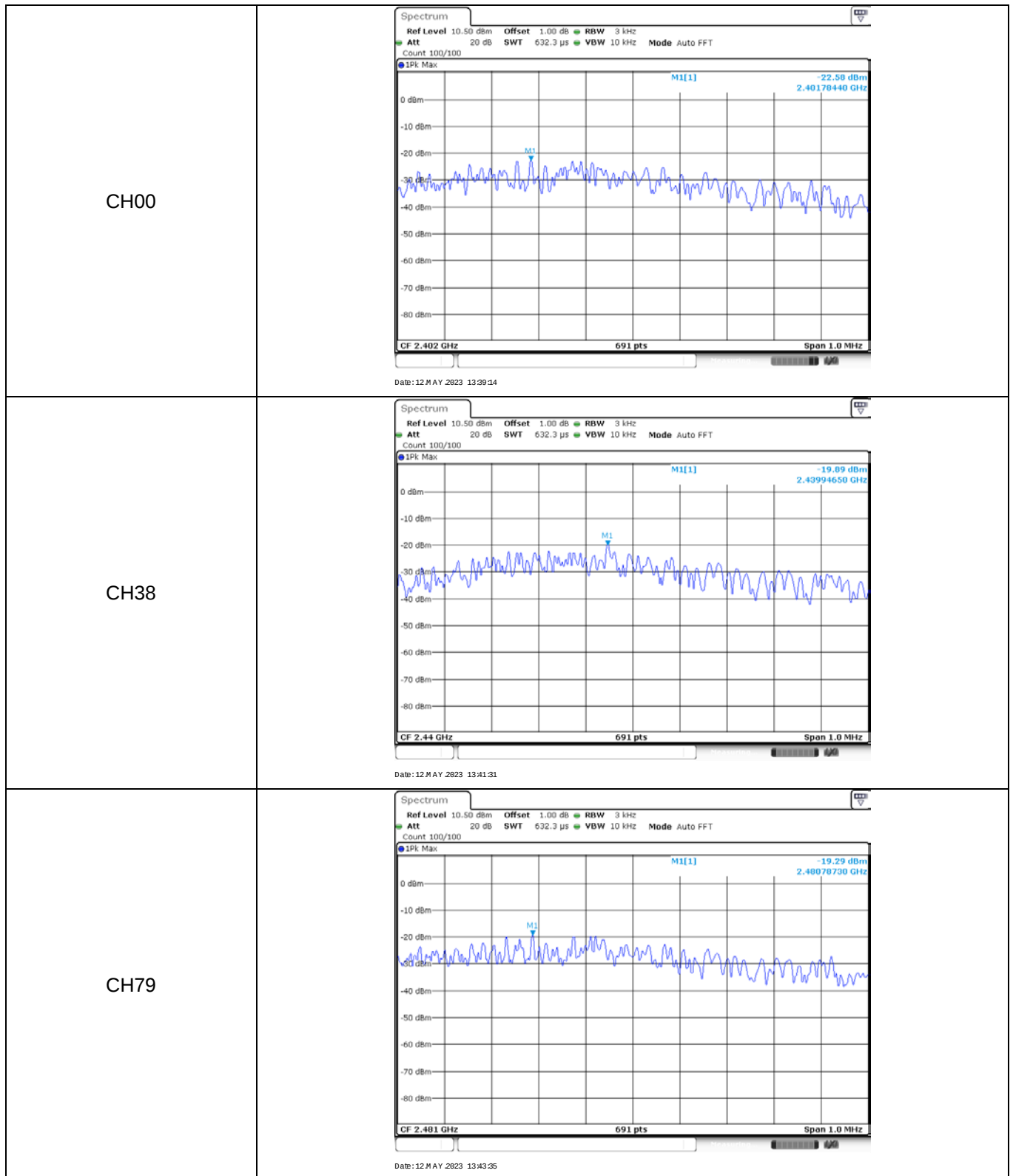
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
FSK	00	-6.07	-6.12	≤ 30.00	Pass
	38	-4.80	-4.85		
	79	-3.19	-3.23		

CH00	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 MHz Att 20 dB SWT 1 ms VBW 10 MHz Mode Auto Sweep Count 500/500 IPk View CF 2.402 GHz 691 pts Span 10.0 MHz Date:12 MAY 2023 13:39:28
CH38	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 MHz Att 20 dB SWT 1 ms VBW 10 MHz Mode Auto Sweep Count 500/500 IPk View CF 2.44 GHz 691 pts Span 10.0 MHz Date:12 MAY 2023 13:41:17
CH79	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 MHz Att 20 dB SWT 1 ms VBW 10 MHz Mode Auto Sweep Count 500/500 IPk View CF 2.401 GHz 691 pts Span 10.0 MHz Date:12 MAY 2023 13:43:21

Appendix B: Power Spectral Density

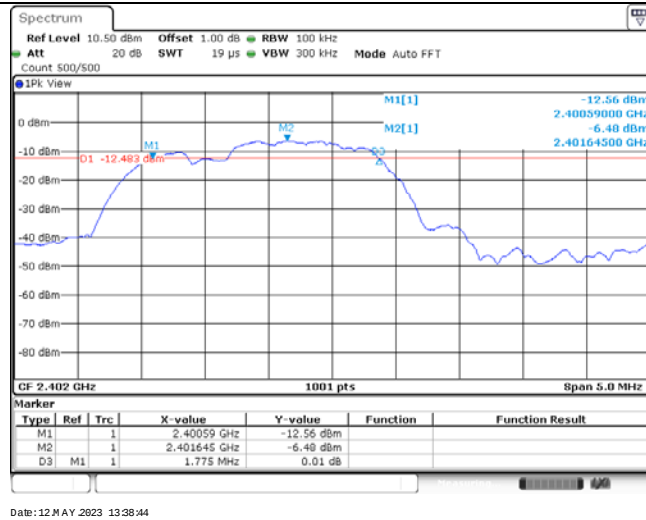
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
FSK	00	-22.58	≤8.00	Pass
	38	-19.89		
	79	-19.29		



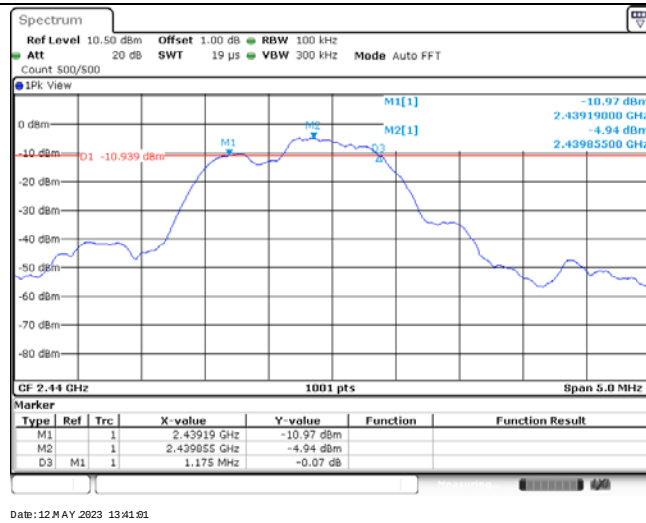
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
FSK	00	1775.00	≥500	Pass
	38	1175.00		
	79	1020.00		

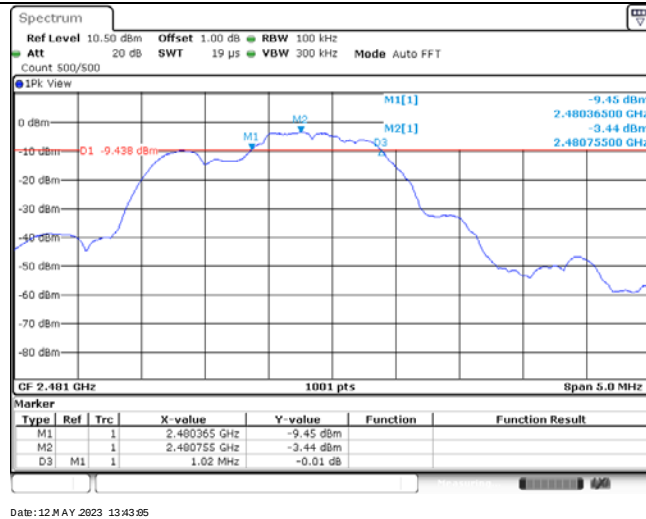
CH00



CH38



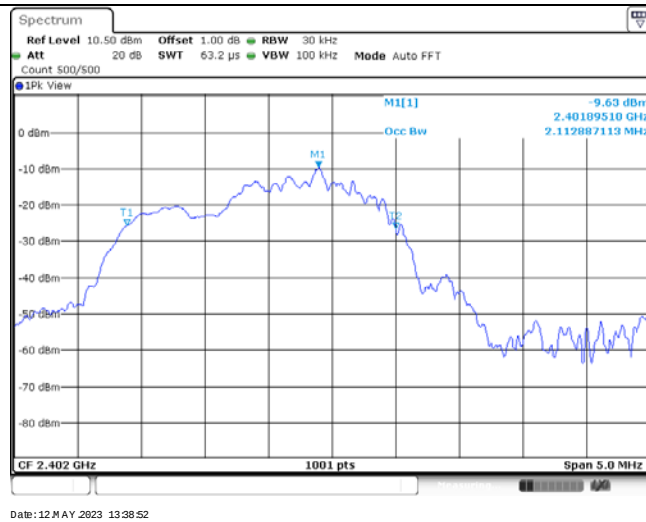
CH79



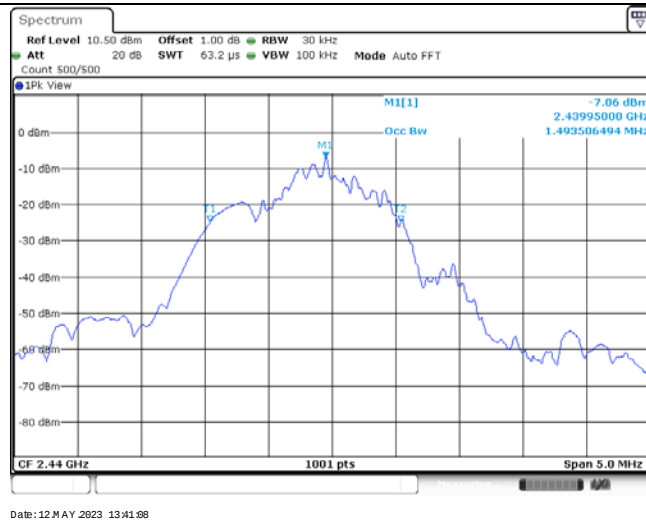
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
FSK	00	2.11	-	Pass
	38	1.49		
	79	1.87		

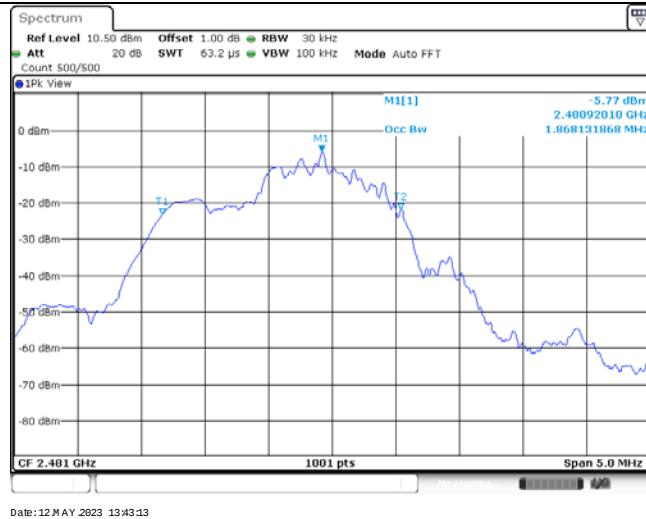
CH00



CH38

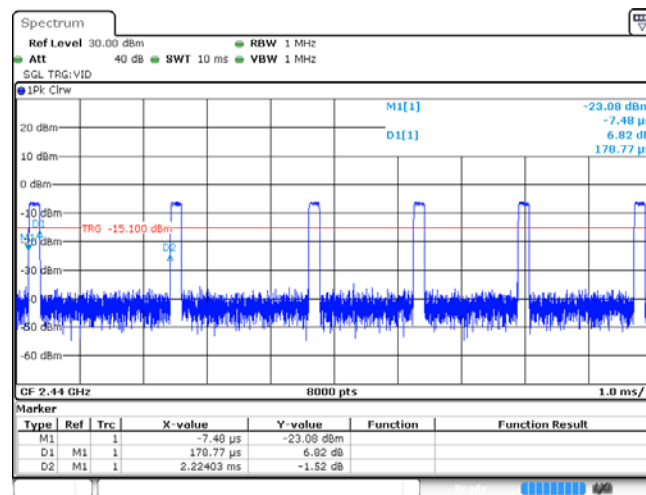


CH79



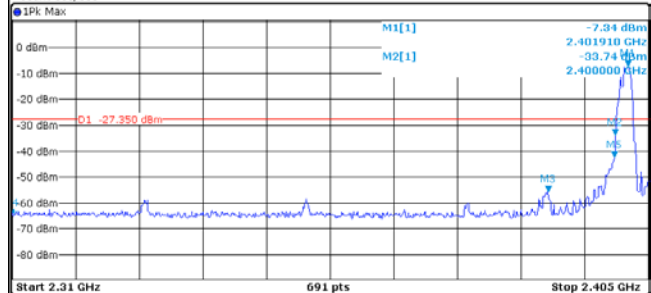
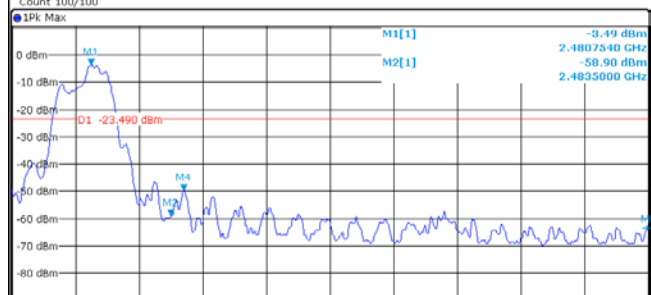
Appendix E: Duty cycle

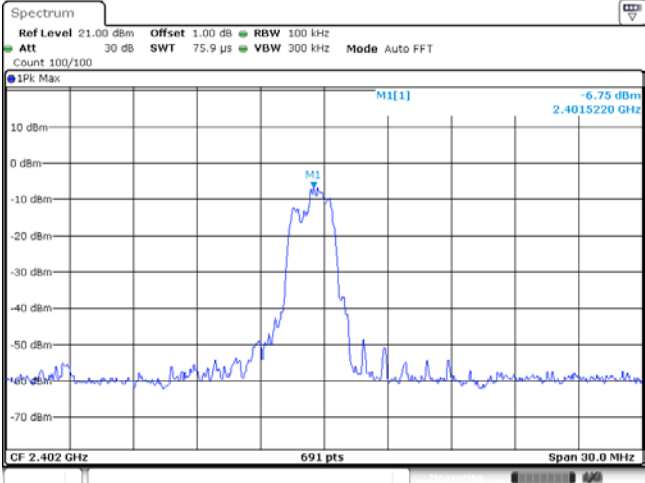
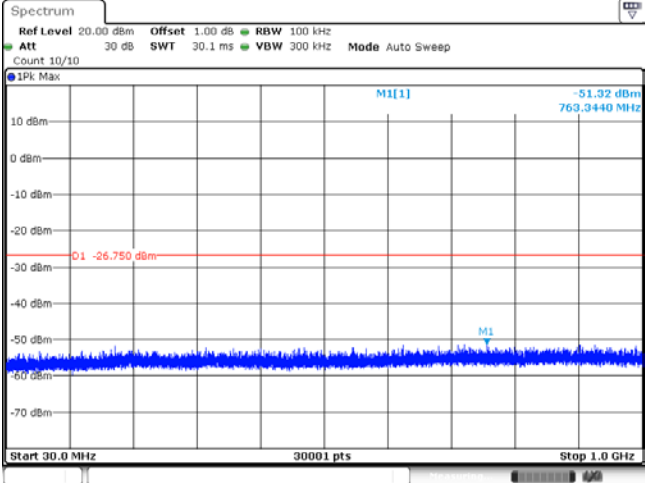
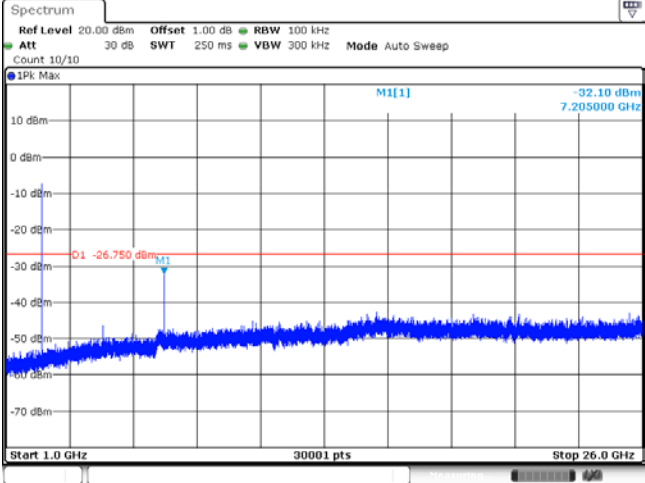
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.18	2.22	8.1%	5.56



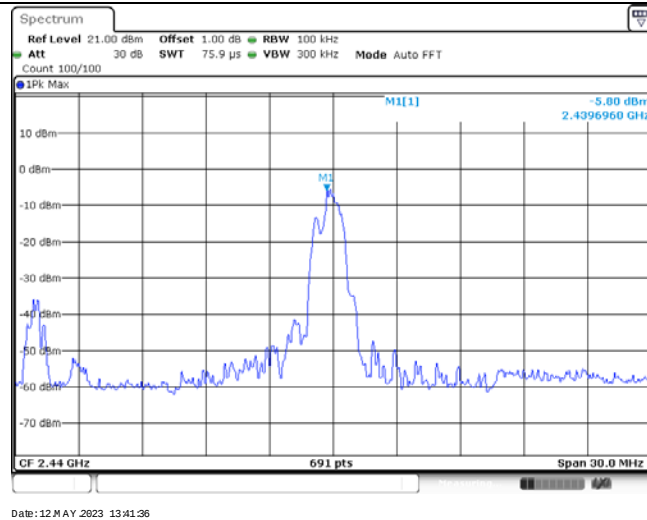
Date: 12 MAY 2023 13:49:48

Appendix F: Band edge and Spurious Emissions (conducted)

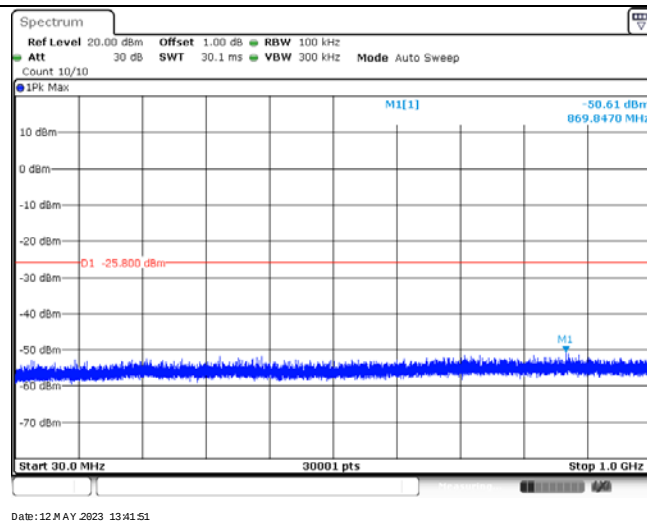
Test Item:	Band edge																																																
CH00	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1Pk Max  Start 2.31 GHz 691 pts Stop 2.405 GHz <table><thead><tr><th>Marker</th><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td>1</td><td></td><td></td><td>2.40191 GHz</td><td>-7.34 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td></td><td>2.4 GHz</td><td>-33.74 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td></td><td>2.39 GHz</td><td>-55.73 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td></td><td>2.31 GHz</td><td>-63.24 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td></td><td>2.399900 GHz</td><td>-42.24 dBm</td><td></td><td></td></tr></tbody></table> Date: 12 MAY 2023 13:39:23	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.40191 GHz	-7.34 dBm			M2	1			2.4 GHz	-33.74 dBm			M3	1			2.39 GHz	-55.73 dBm			M4	1			2.31 GHz	-63.24 dBm			M5	1			2.399900 GHz	-42.24 dBm		
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Test Item:	SE
CH00 Reference level	 Date: 12 MAY 2023 13:39:29
CH00 30MHz~1000MHz	 Date: 12 MAY 2023 13:39:44
CH00 1GHz~26GHz	 Date: 12 MAY 2023 13:39:59

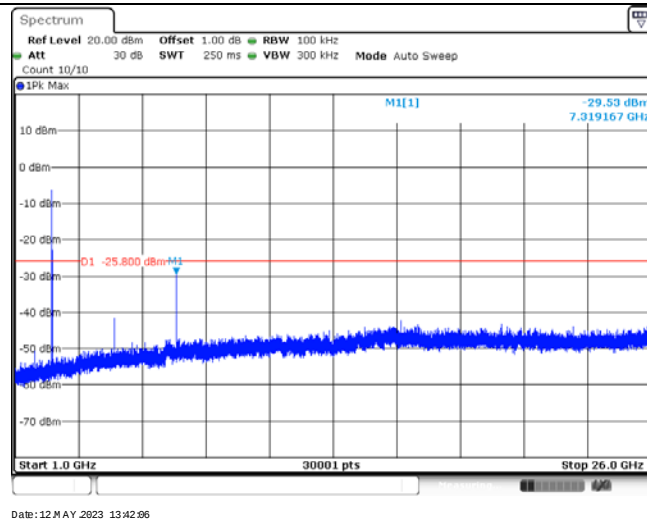
CH38
Reference level

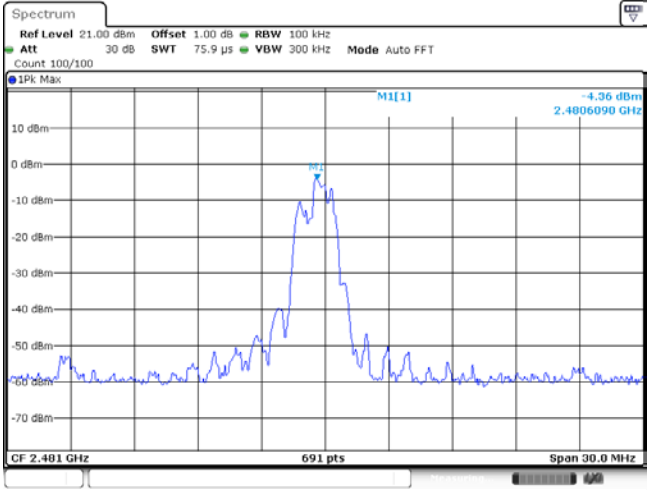
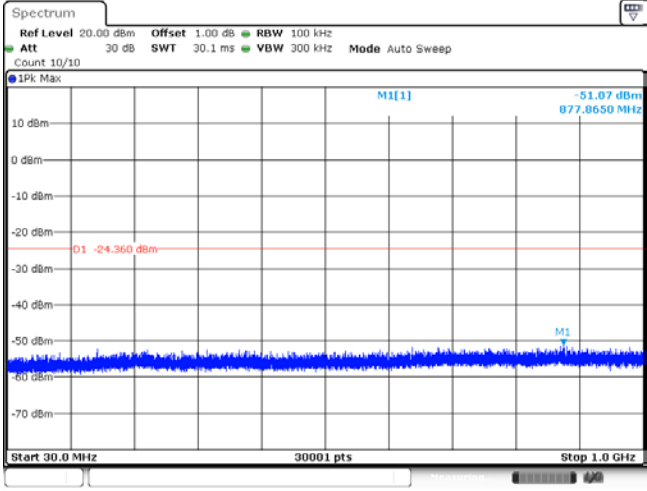
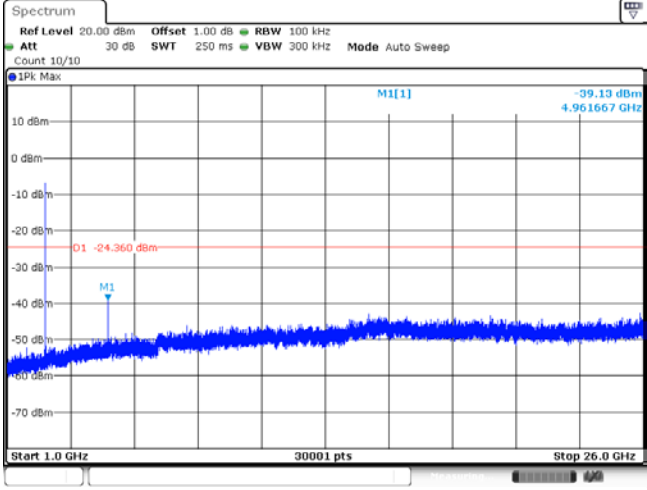


CH38
30MHz~1000MHz



CH38
1GHz~26GHz



CH79 Reference level	 Date: 12 MAY 2023 13:43:59
CH79 30MHz~1000MHz	 Date: 12 MAY 2023 13:44:05
CH79 1GHz~26GHz	 Date: 12 MAY 2023 13:44:29

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