

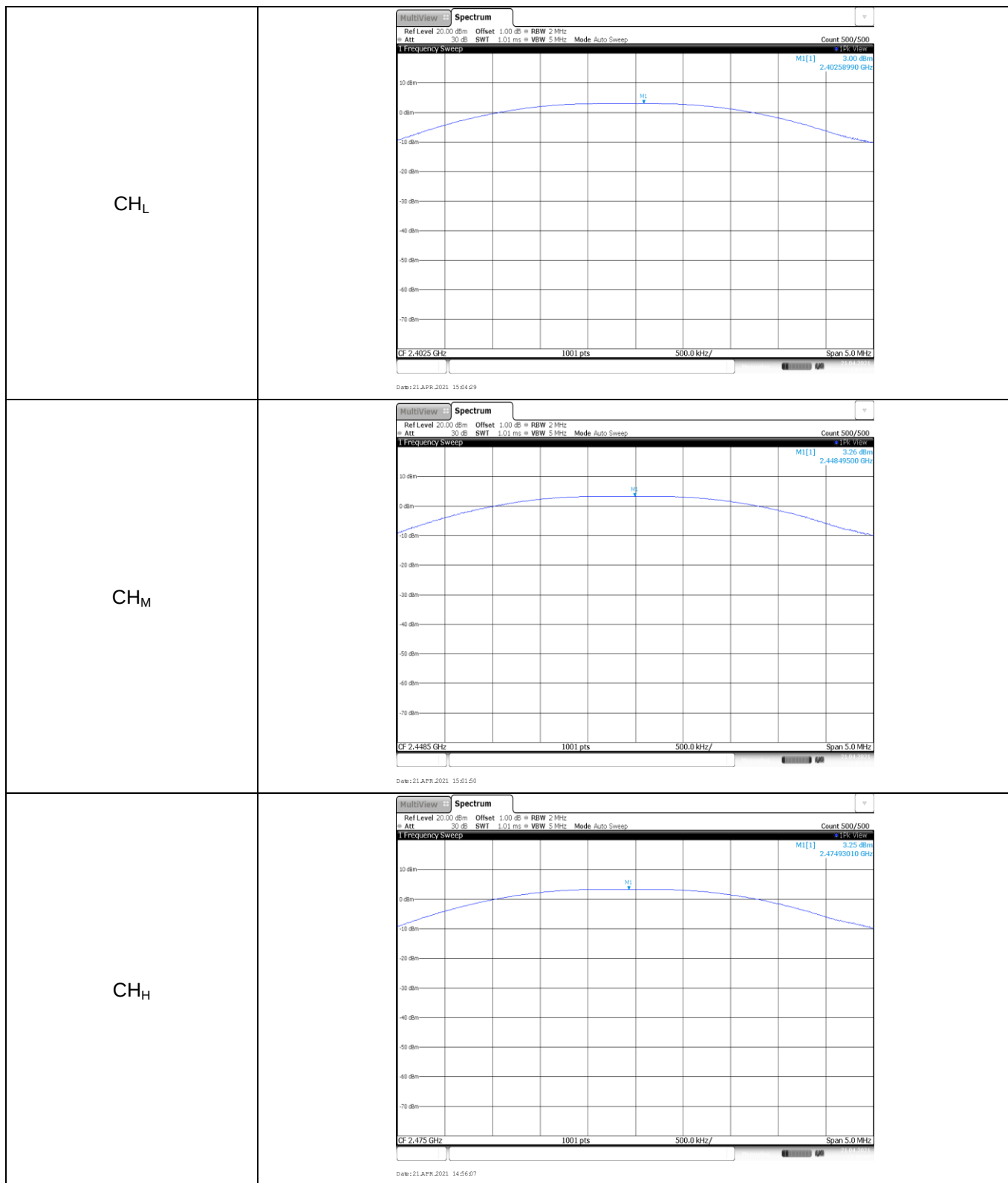
APPENDIX REPORT

Project No.	SHT2104034801EW	Radio Specification	GFSK
Test sample No.	YPHT21040348001	Model No.	WT-U
Start test date	2021-04-21	Finish date	2021-04-21
Temperature	24.4°C	Humidity	53%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhu

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

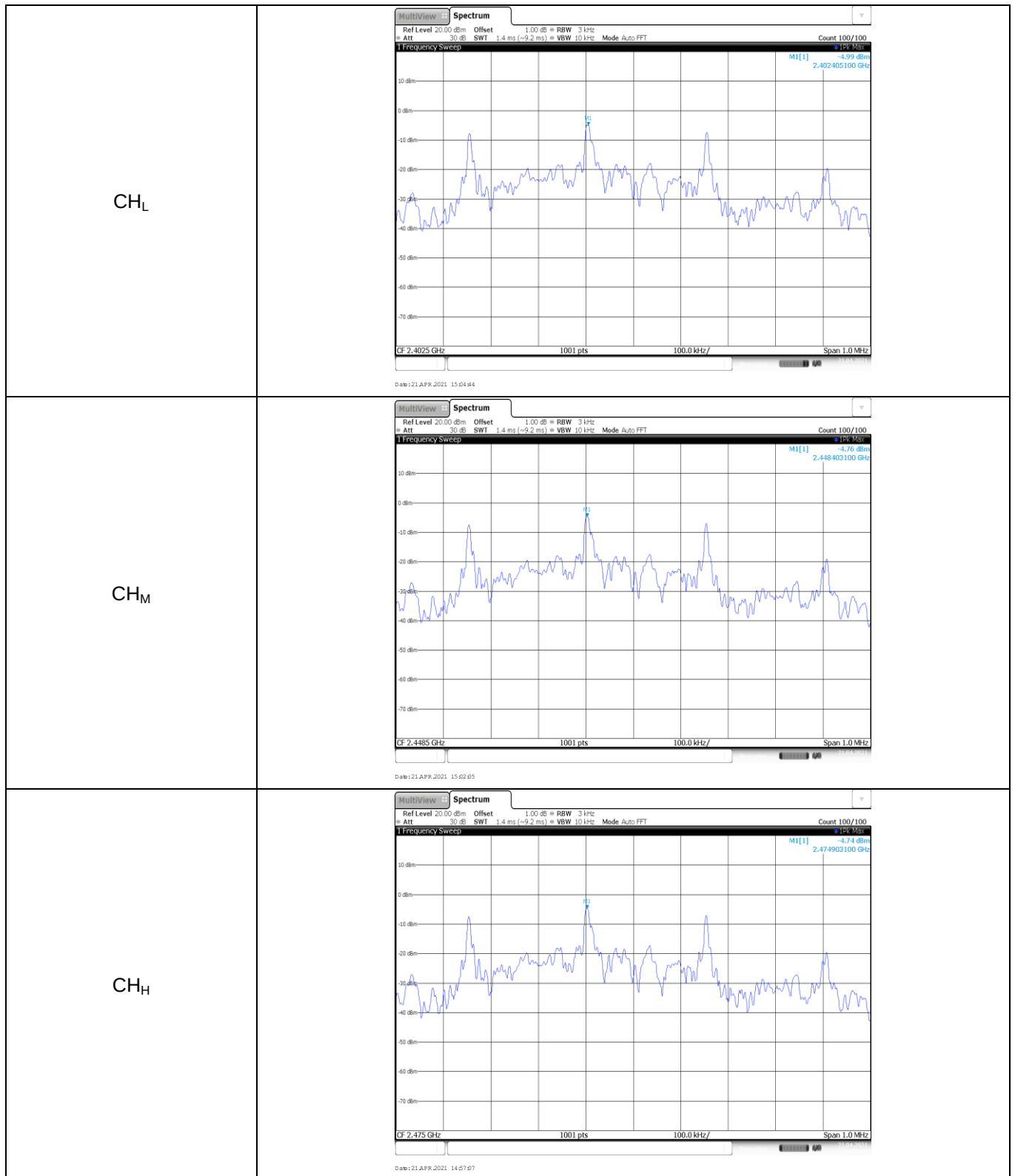
Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	CH _L	3.00	2.99	≤ 30.00	Pass
	CH _M	3.26	3.24		
	CH _H	3.25	3.23		



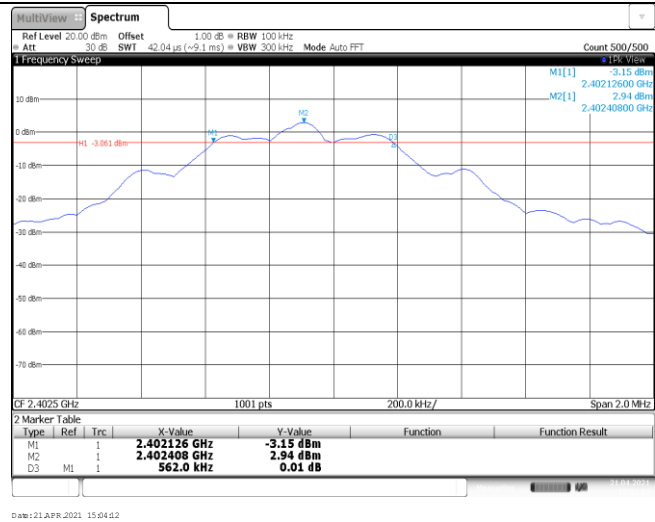
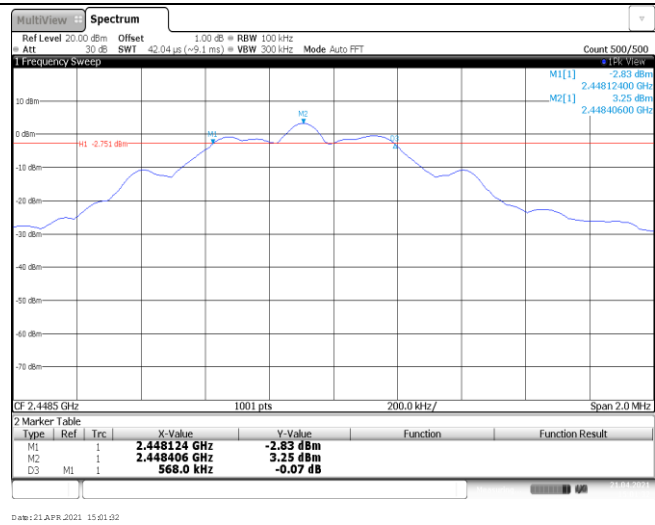
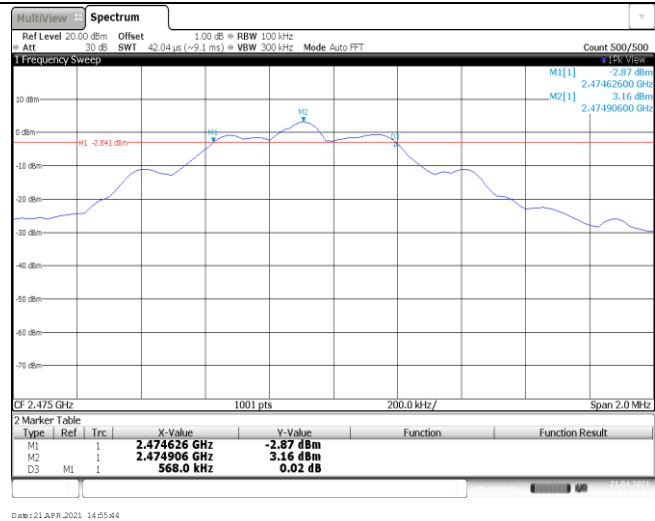
Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
GFSK	CH _L	-4.99	≤8.00	Pass
	CH _M	-4.76		
	CH _H	-4.74		



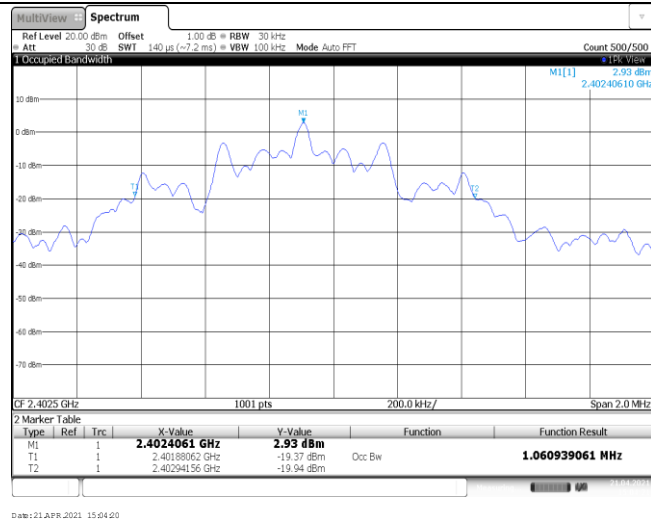
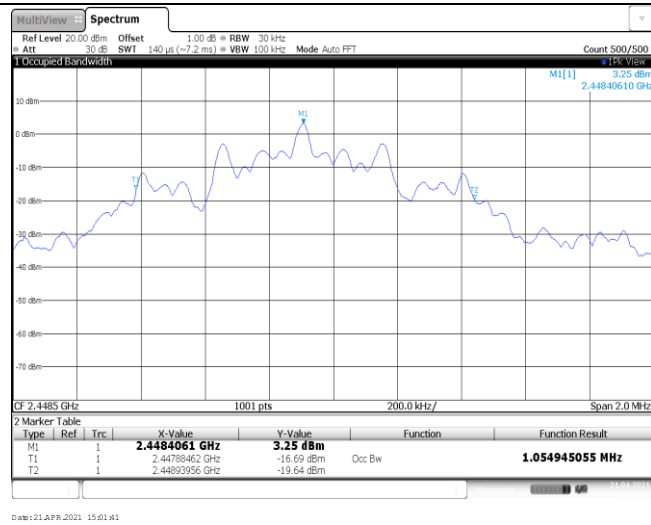
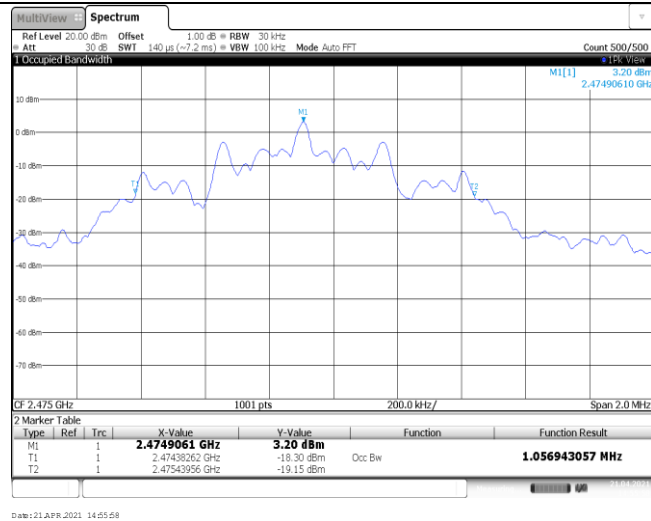
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
GFSK	CH _L	562.00	≥500	Pass
	CH _M	568.00		
	CH _H	568.00		

CH_LCH_MCH_H

Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
GFSK	CH _L	1.06	-	Pass
	CH _M	1.05		
	CH _H	1.06		

CH_LCH_MCH_H

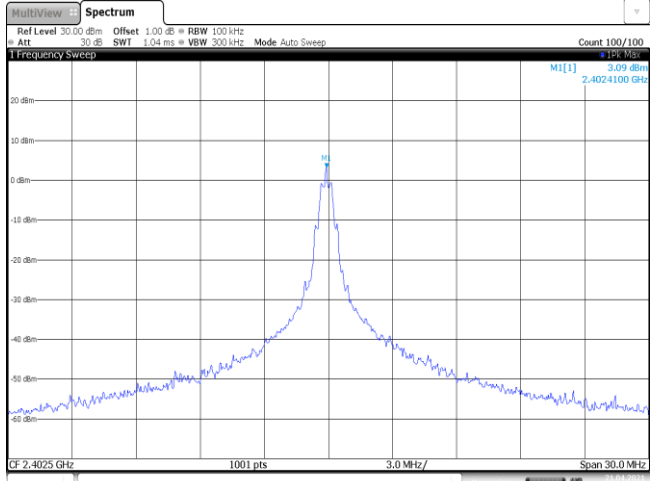
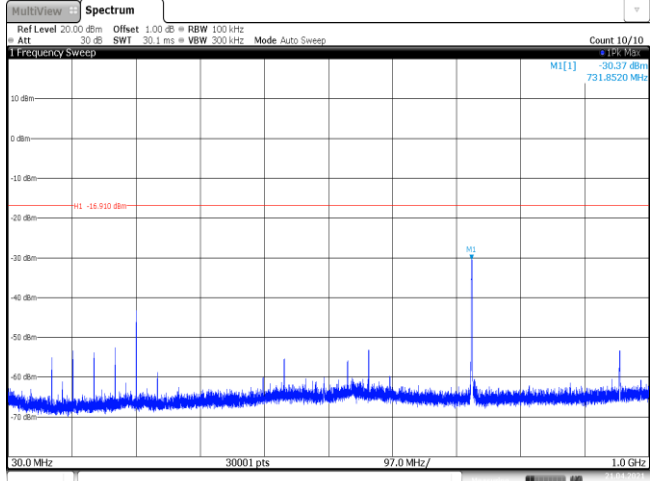
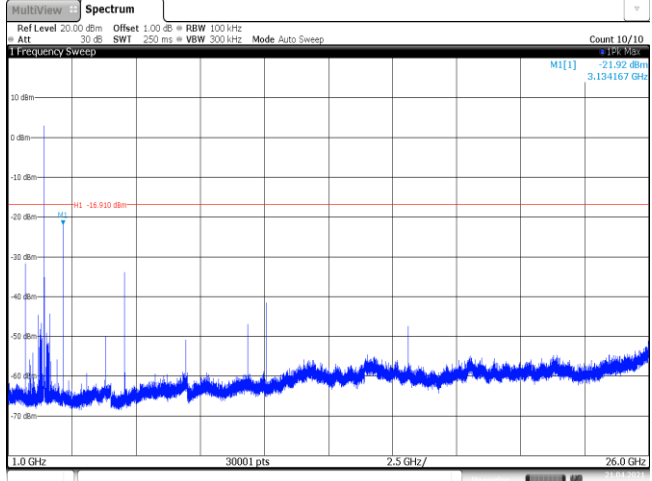
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2448.5	0.22	0.34	64.7%	4.55

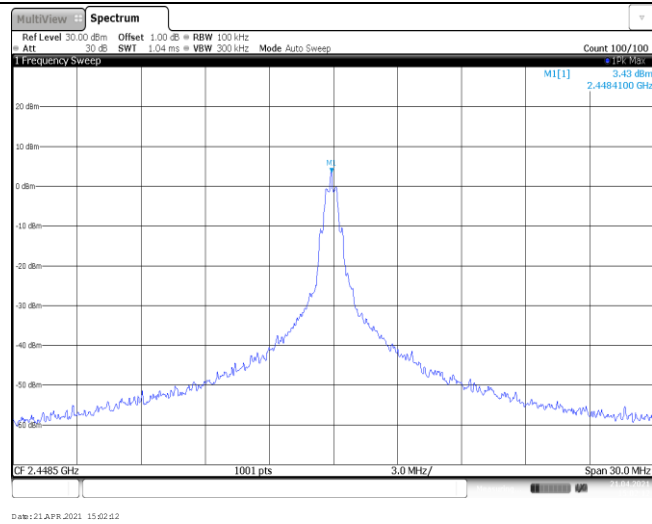


Appendix F: Band edge and Spurious Emissions (conducted)

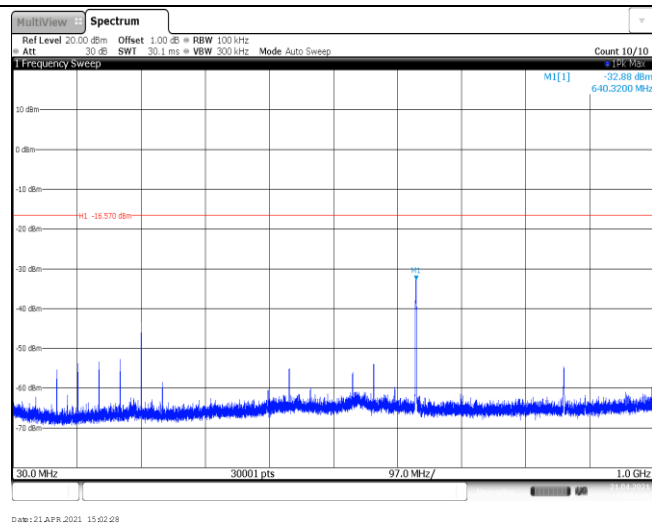
Test Item:	Band edge																																										
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW 1.05 ms VBW 300 kHz Mode Auto Sweep Count 300/300 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 2.82 dBm 2.4023900 GHz M2 -39.72 dBm 2.4000000 GHz 2.31 GHz1001 pts9.5 MHz/2.405 GHz 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>2.40239 GHz</td><td>2.82 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-39.72 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-56.76 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.81 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-39.06 dBm</td><td></td><td></td></tr></table> Date: 21 APR 2021 15:04:55	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40239 GHz	2.82 dBm			M2	1		2.4 GHz	-39.72 dBm			M3	1		2.39 GHz	-56.76 dBm			M4	1		2.31 GHz	-63.81 dBm			M5	1		2.399965 GHz	-39.06 dBm		
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CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SW 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 3.25 dBm 2.4749000 GHz M2 -55.11 dBm 2.4835000 GHz 2.47 GHz1001 pts3.0 MHz/2.5 GHz 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>2.4749 GHz</td><td>3.25 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-55.11 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-63.34 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.48359 GHz</td><td>-53.03 dBm</td><td></td><td></td></tr></table> Date: 21 APR 2021 14:57:17	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4749 GHz	3.25 dBm			M2	1		2.4835 GHz	-55.11 dBm			M3	1		2.5 GHz	-63.34 dBm			M4	1		2.48359 GHz	-53.03 dBm									
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Test Item:	SE
CH _L 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 M1[1] 3.09 dBm 2.4024100 GHz CF 2.4025 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 21 APR 2021 15:05:01
CH _L 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 M1[1] -30.37 dBm 731.8520 MHz H1 -16.910 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 21 APR 2021 15:05:18
CH _L 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 M1[1] -21.92 dBm 3.134167 GHz H1 -16.910 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 21 APR 2021 15:05:34

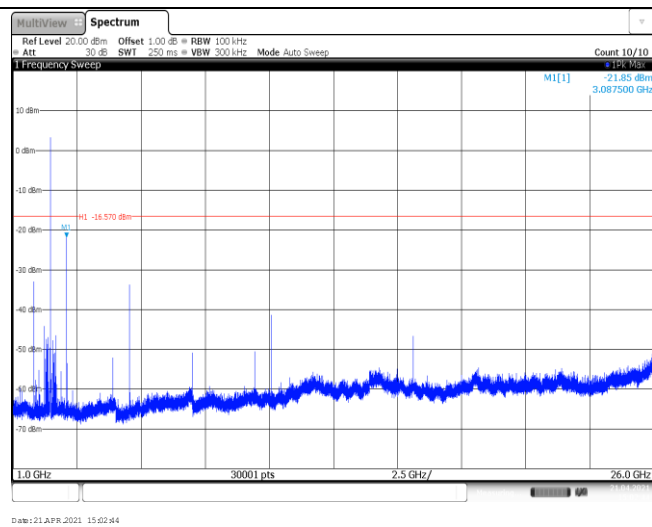
CH_M
Reference level

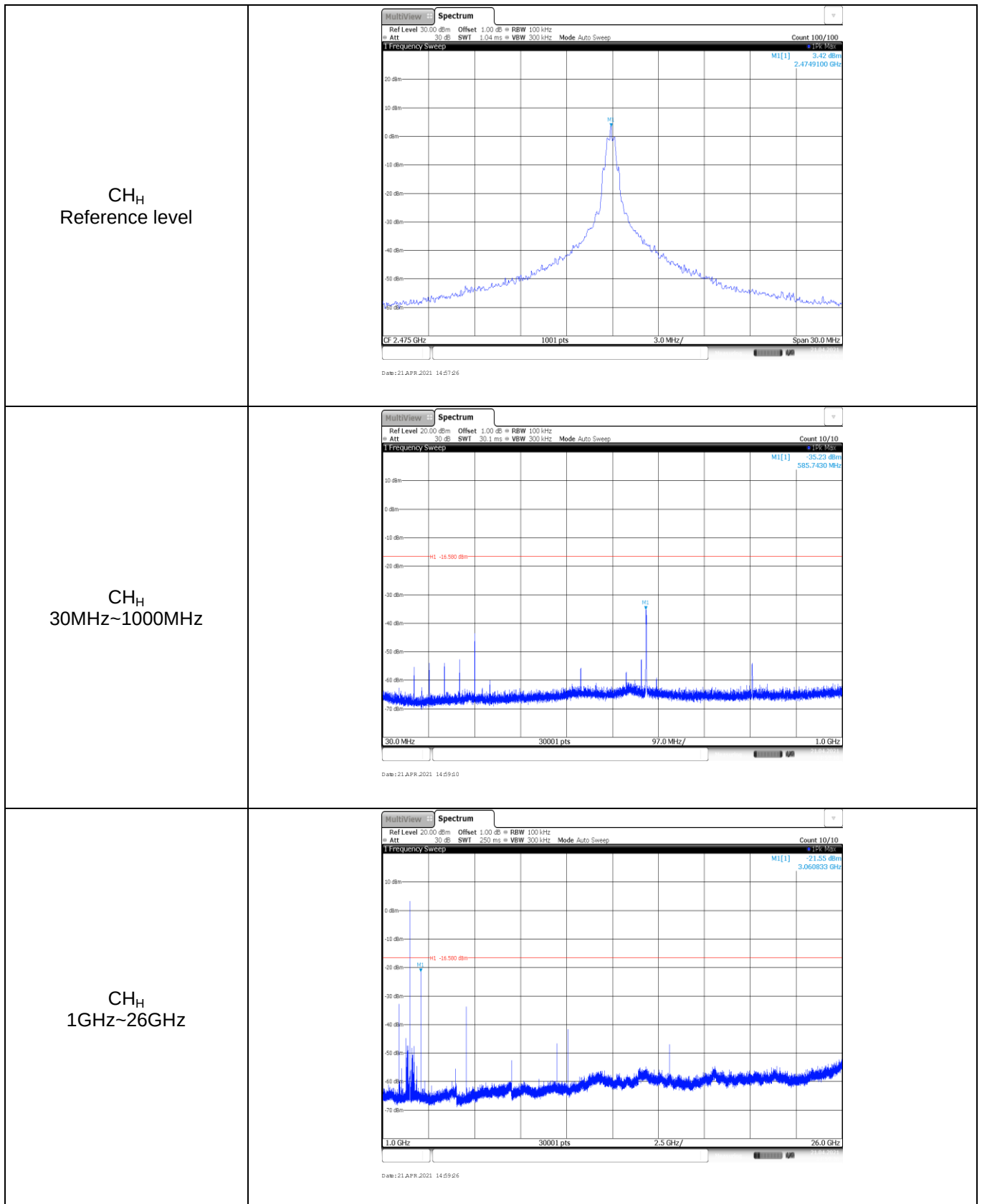


CH_M
30MHz~1000MHz



CH_M
1GHz~26GHz





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