

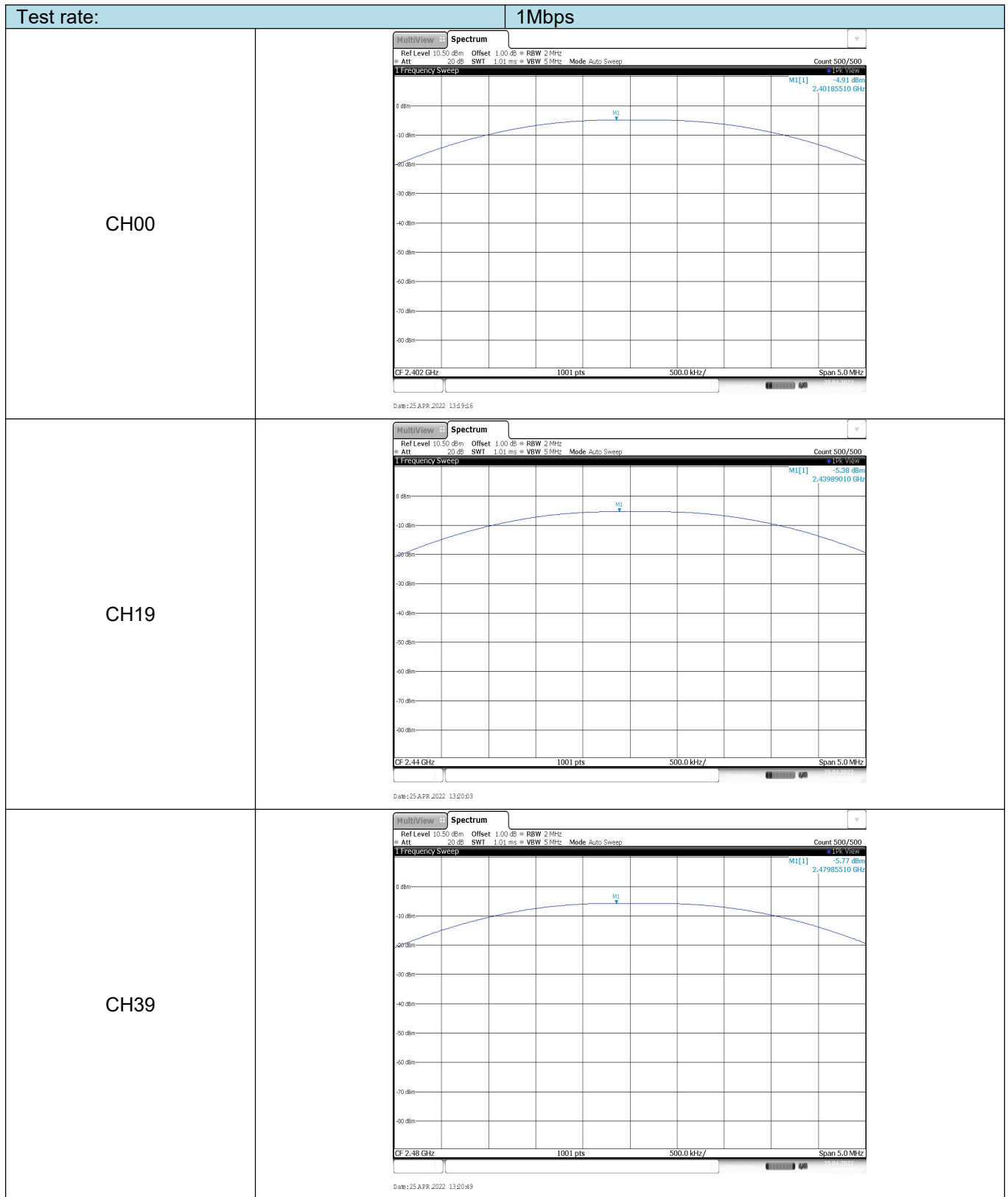
APPENDIX REPORT

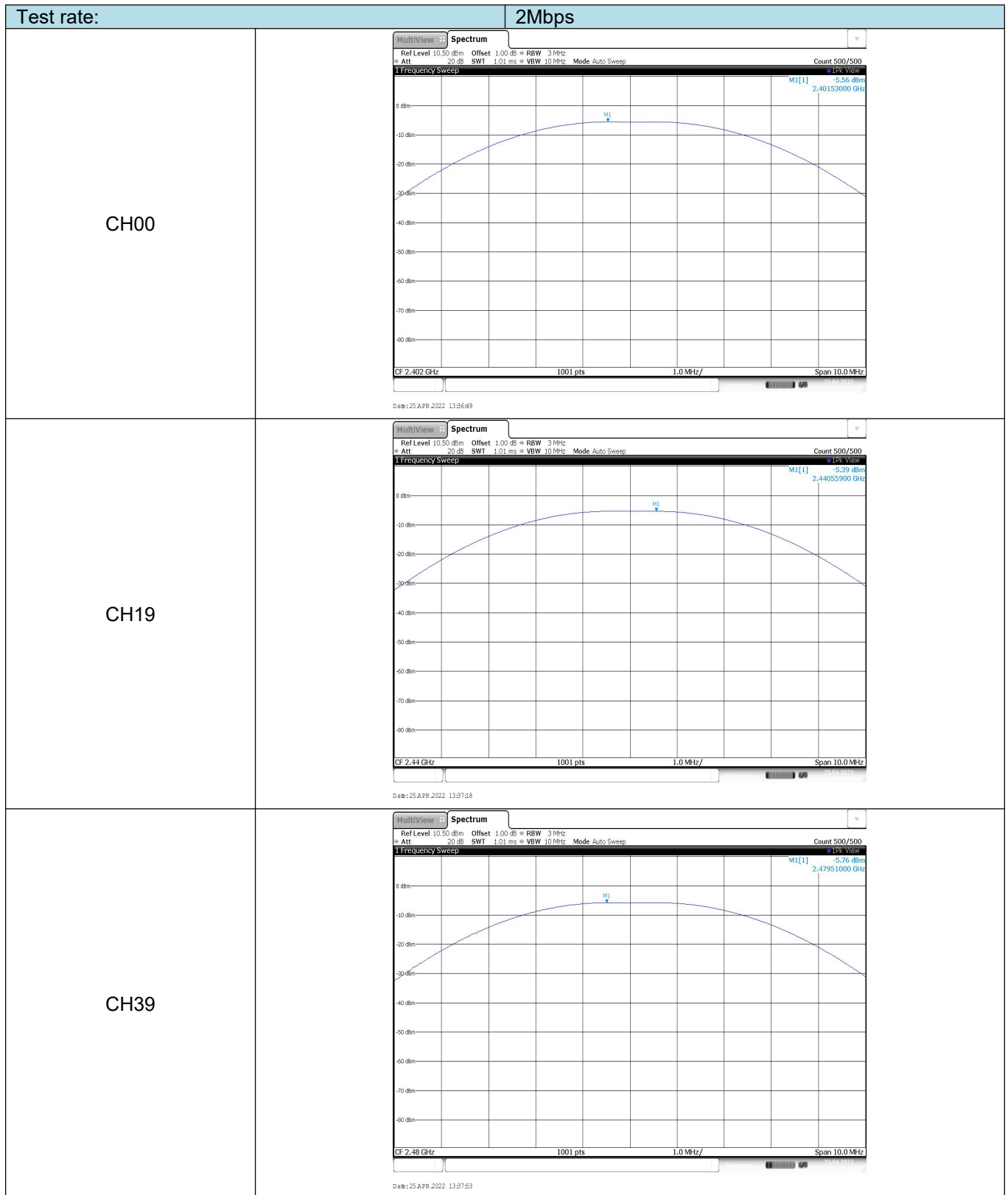
Project No.	SHT2203121001EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT22031210005	Model No.	MTBL-04
Start test date	2022-04-25	Finish date	2022-04-27
Temperature	25.2℃	Humidity	35%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zheo

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

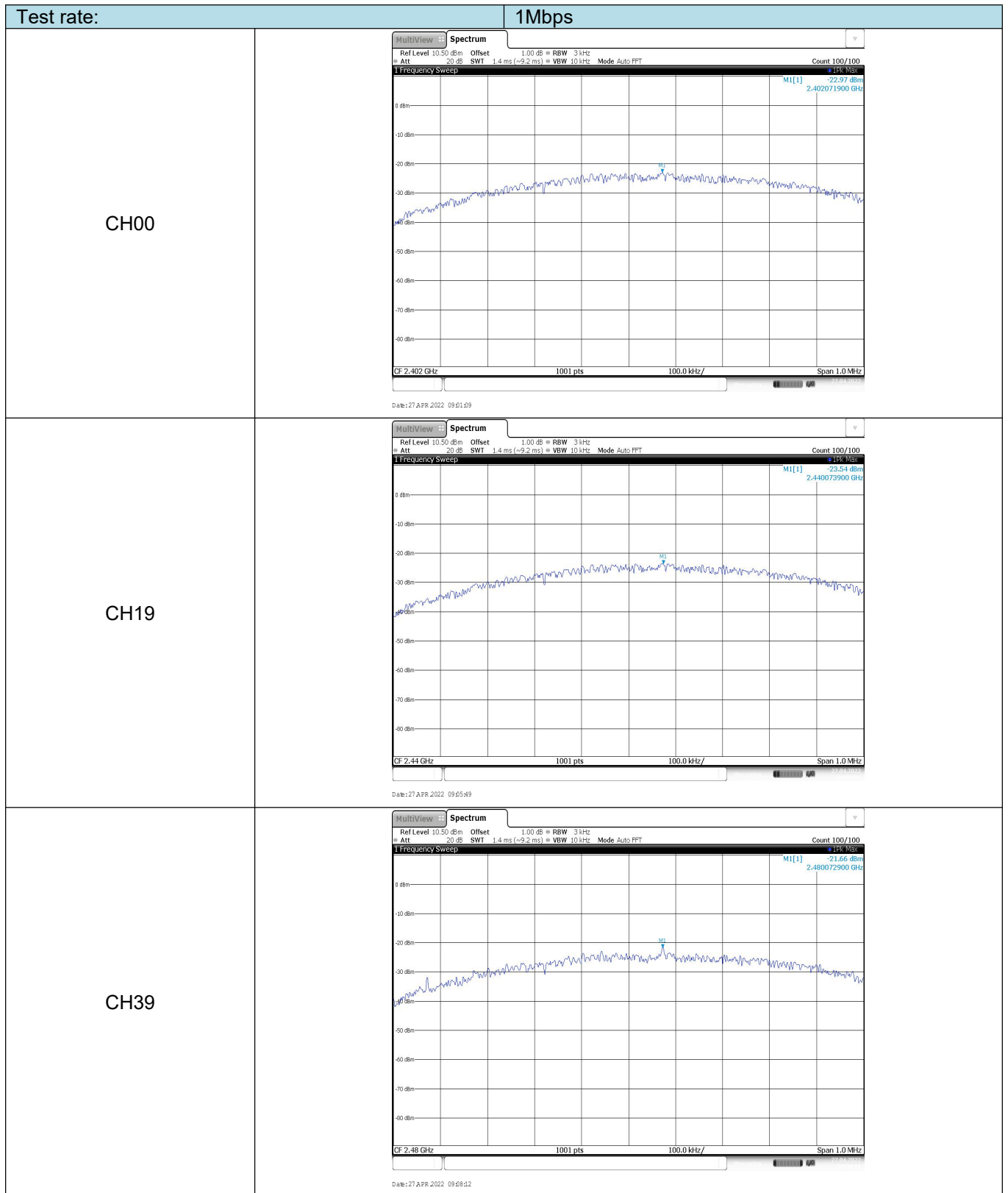
Test rate	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
1Mbps	00	-4.91	-4.95	≤ 30.00	Pass
	19	-5.38	-5.40		
	39	-5.77	-5.79		
2Mbps	00	-5.56	-5.60	≤ 30.00	Pass
	19	-5.39	-5.43		
	39	-5.76	-5.81		

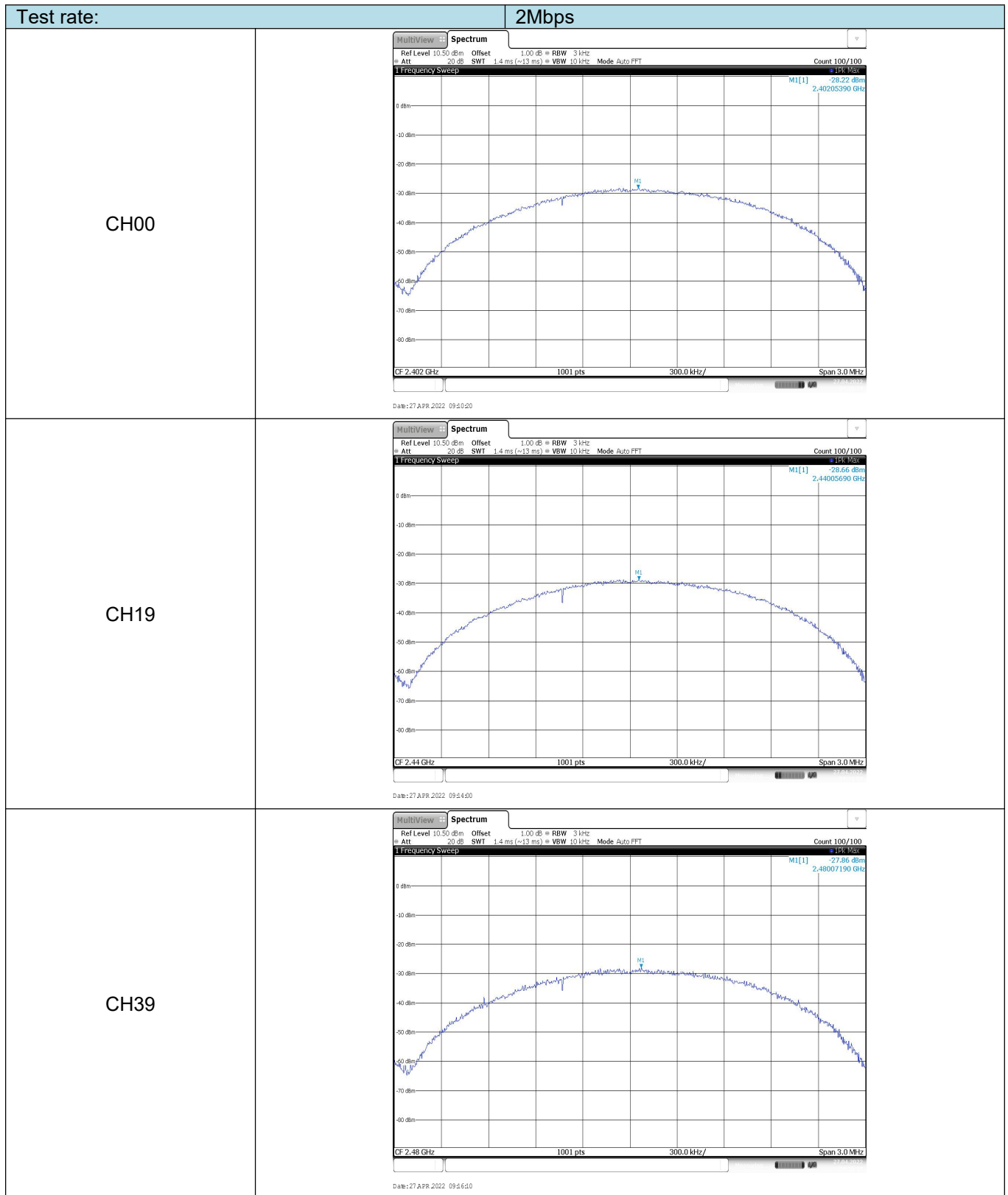




Appendix B: Power Spectral Density

Test rate	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
1Mbps	00	-22.97	≤8.00	Pass
	19	-23.54		
	39	-21.66		
2Mbps	00	-28.22	≤8.00	Pass
	19	-28.66		
	39	-27.86		





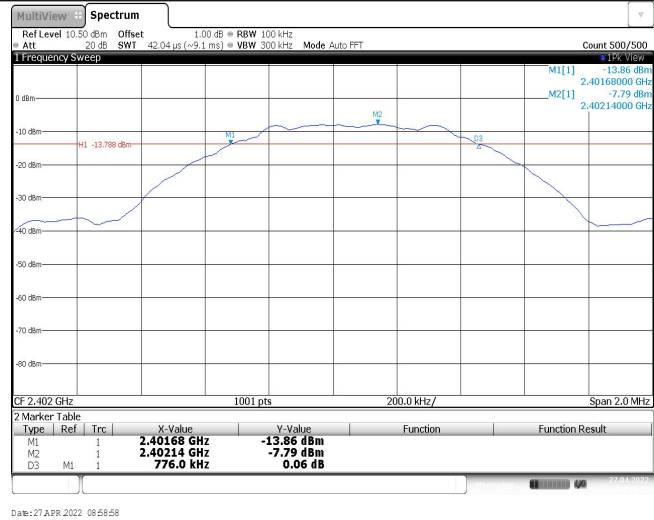
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
1Mbps	00	776.00	≥500	Pass
	19	742.00		
	39	796.00		
2Mbps	00	1410.00	≥500	Pass
	19	1405.00		
	39	1408.00		

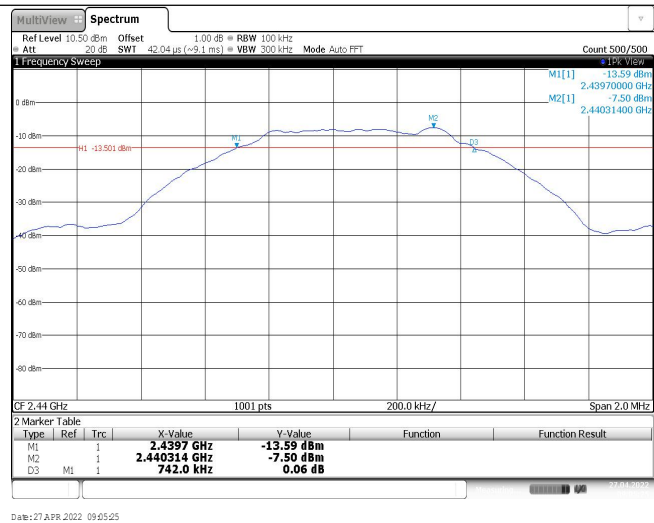
Test rate:

1Mbps

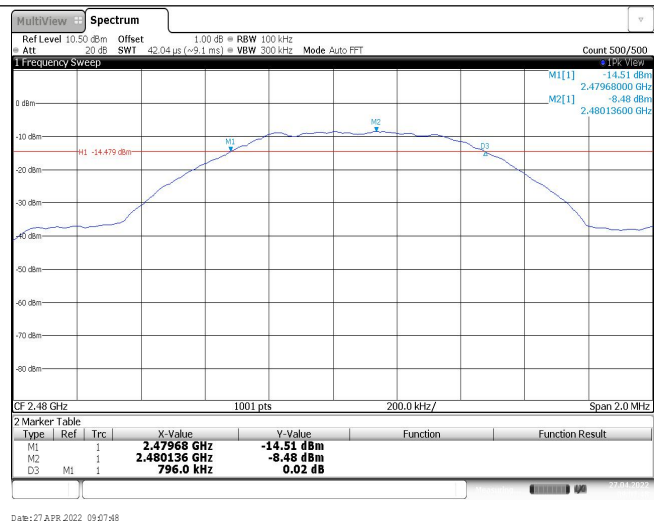
CH00



CH19



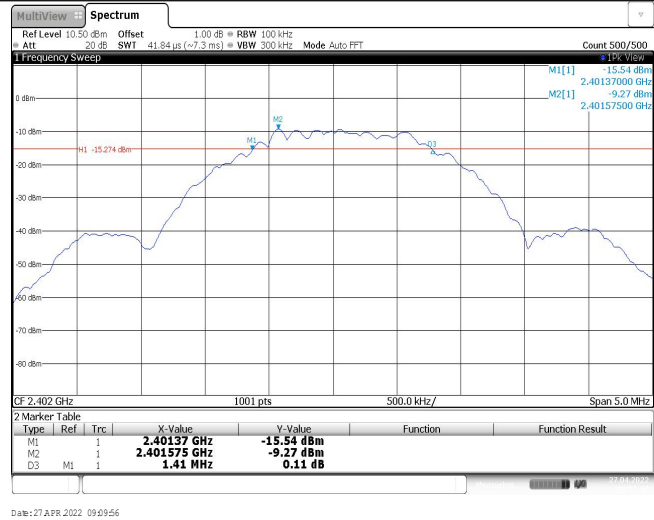
CH39



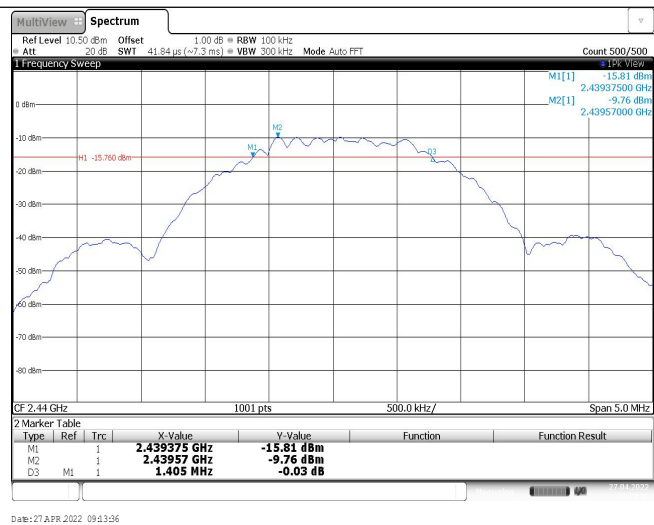
Test rate:

2Mbps

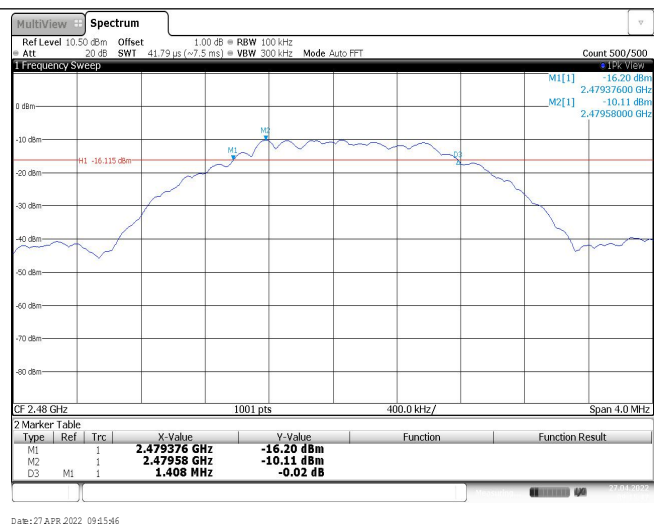
CH00



CH19



CH39



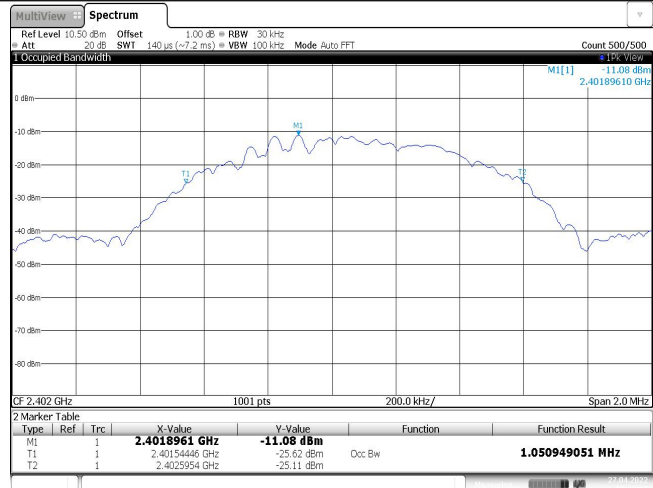
Appendix D: 99% Occupied Bandwidth

Test rate	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
1Mbps	00	1.05	-	Pass
	19	1.04		
	39	1.06		
2Mbps	00	2.10	-	Pass
	19	2.09		
	39	2.11		

Test rate:

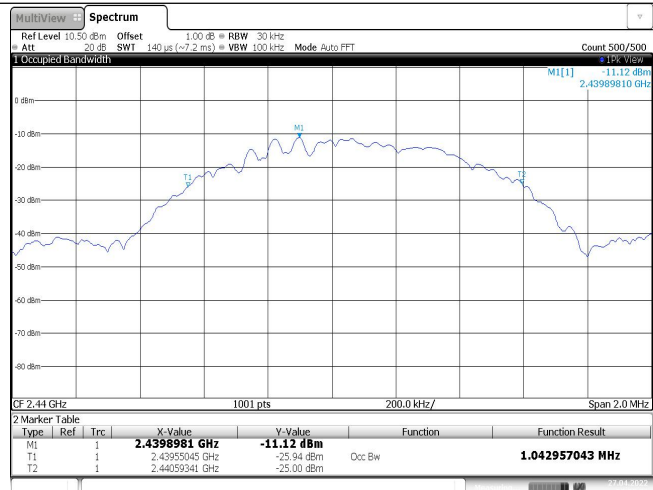
1Mbps

CH00



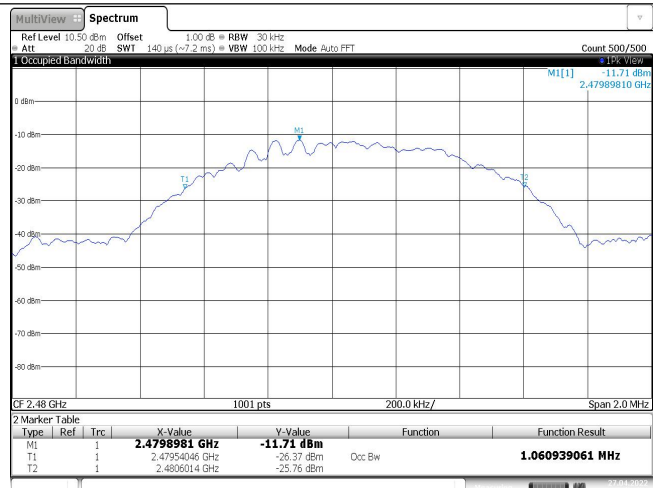
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CH19

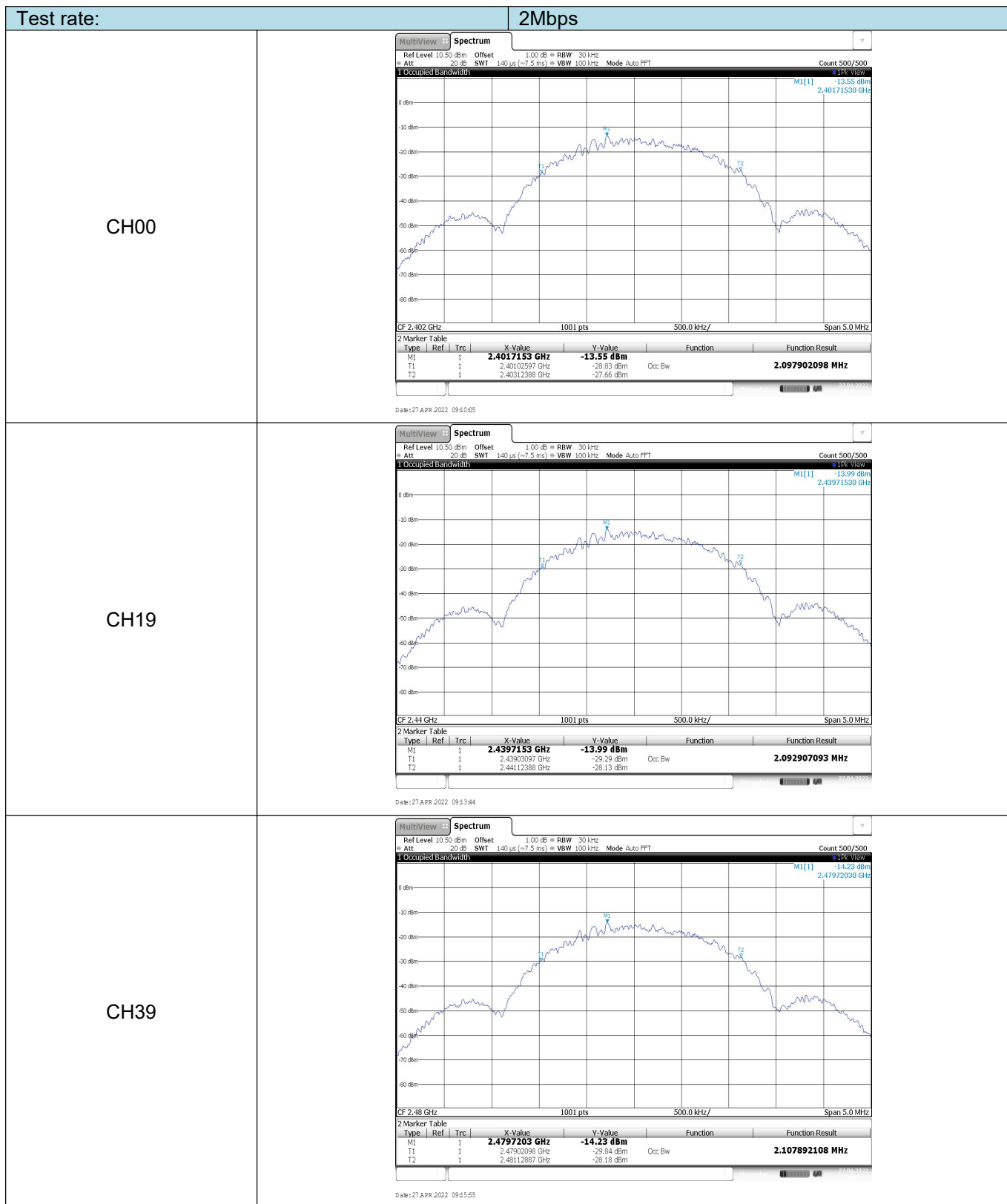


Date: 27 APR 2022 09:55:04

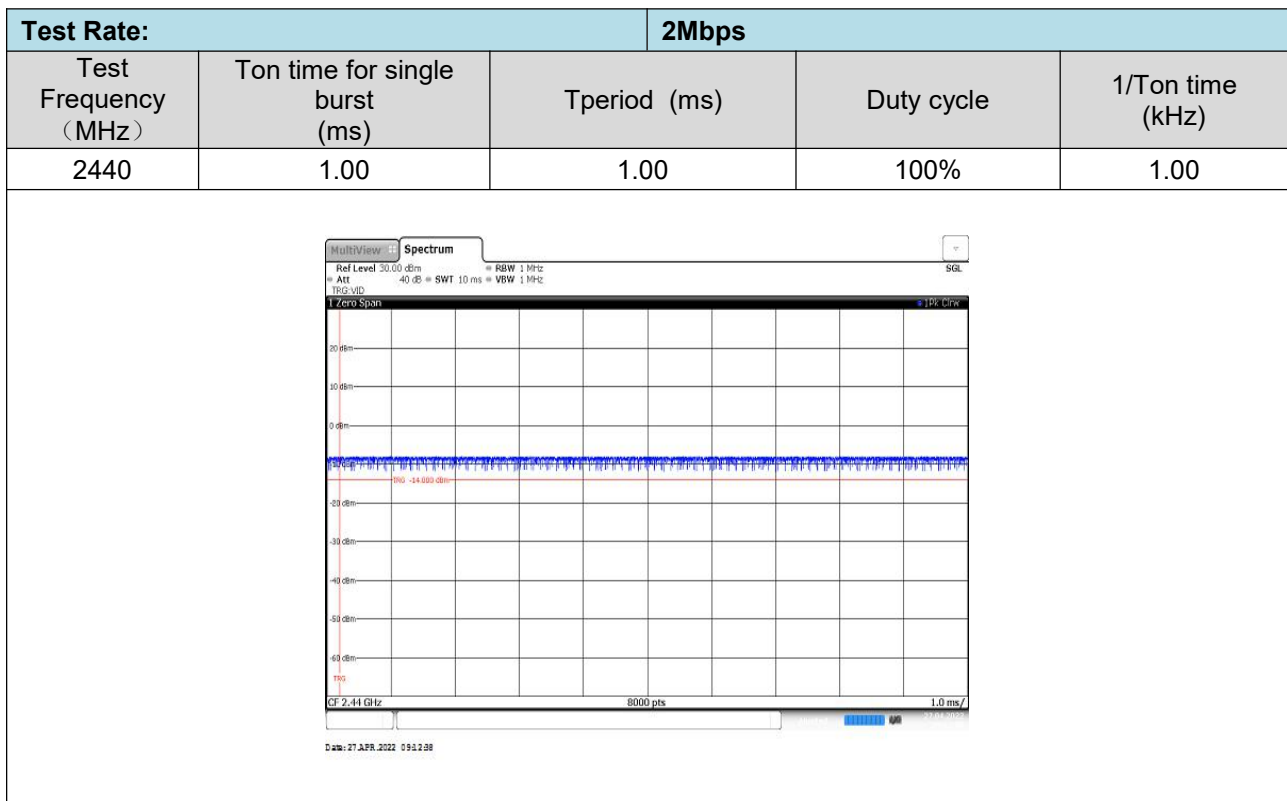
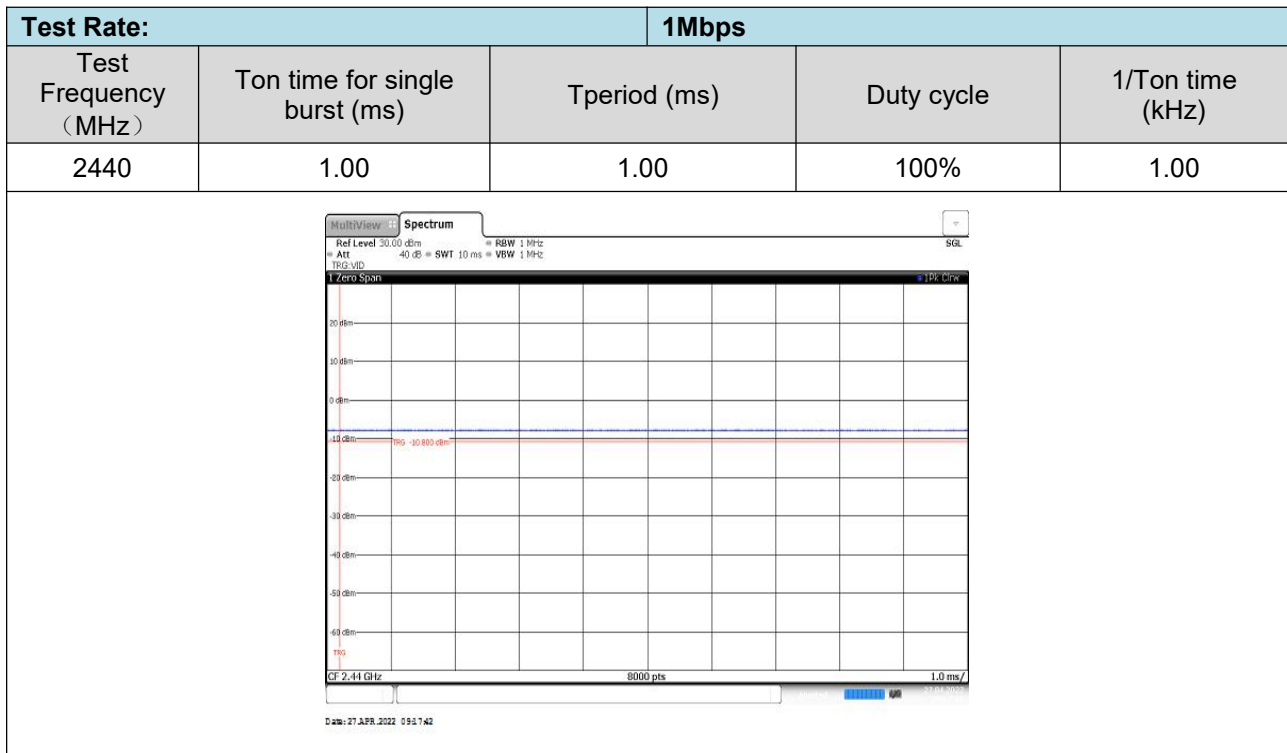
CH39



Date: 27 APR 2022 09:07:56



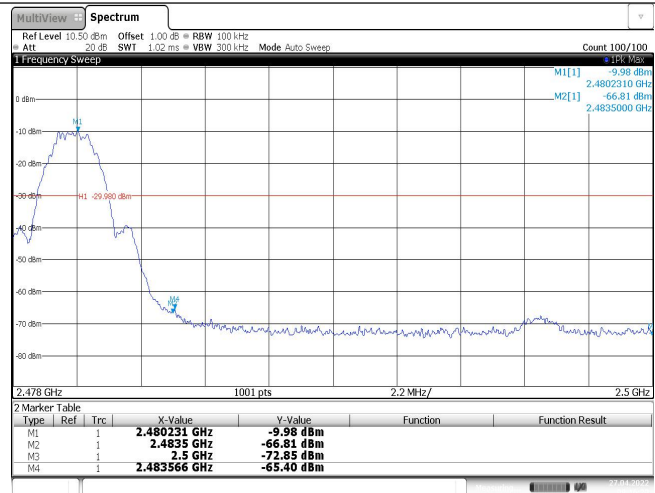
Appendix E: Duty cycle



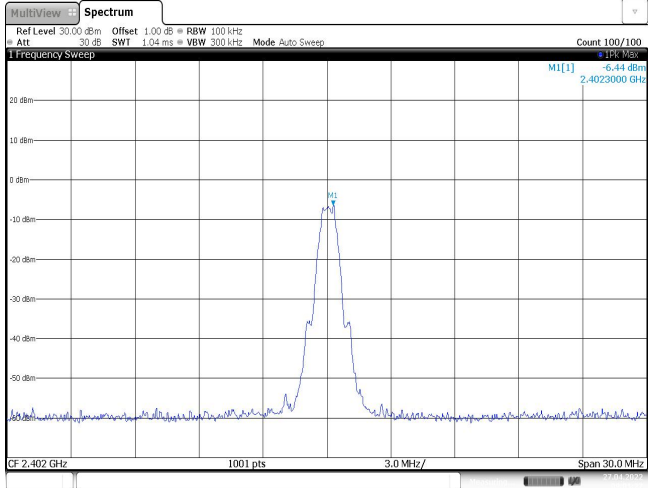
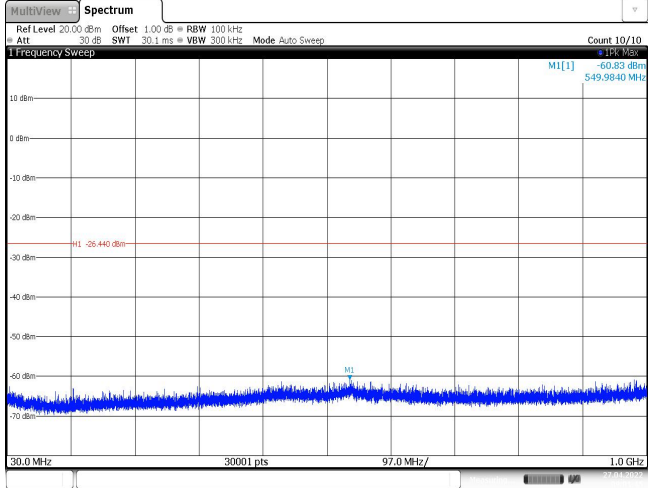
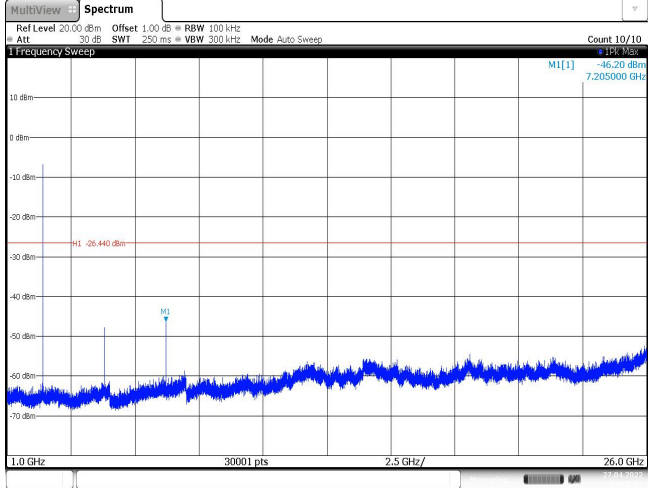
Appendix F: Band edge and Spurious Emissions (conducted)

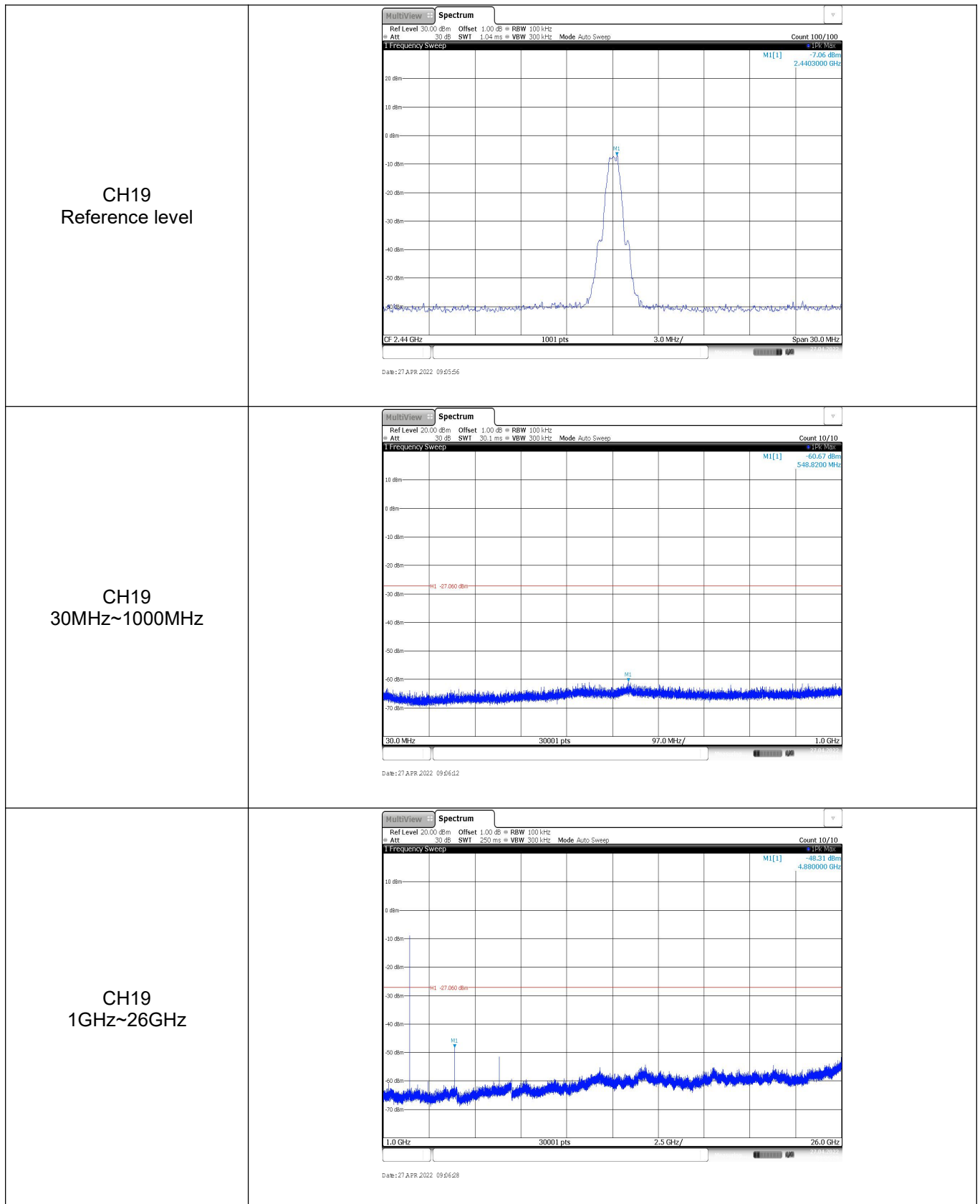
Test Item:	Band edge	Test Rate:	1Mbps
CH00			

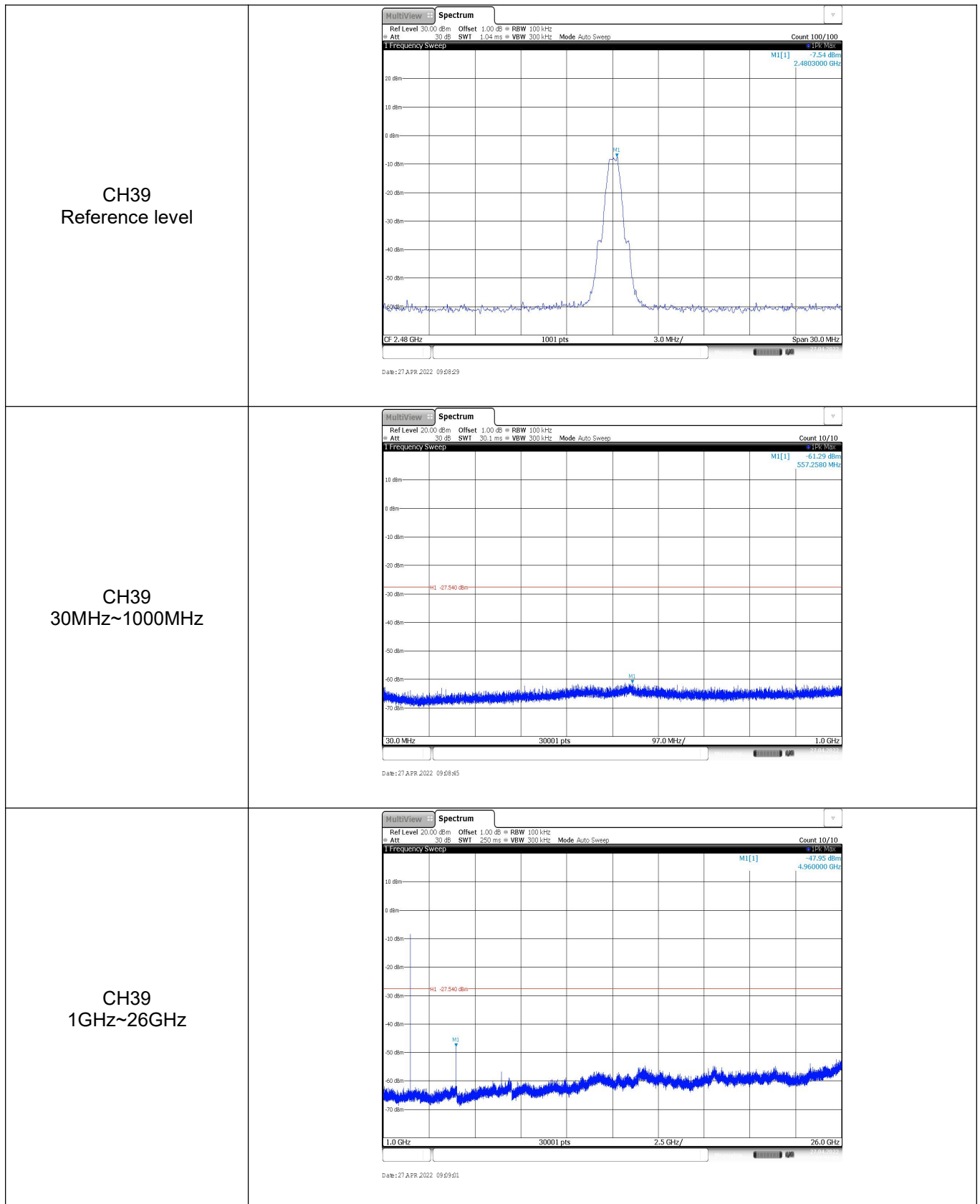
CH39

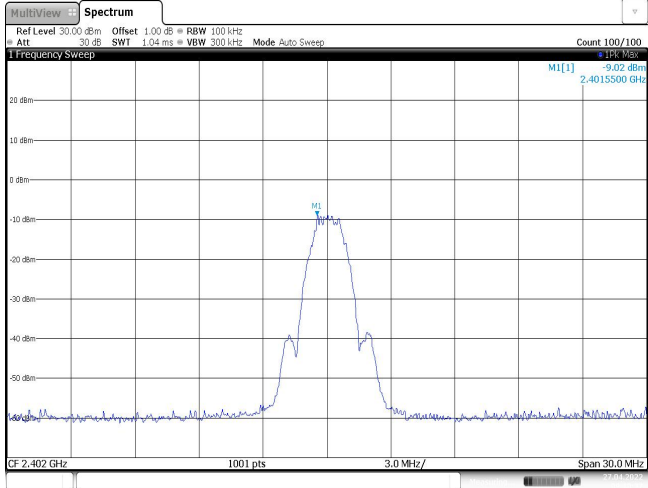
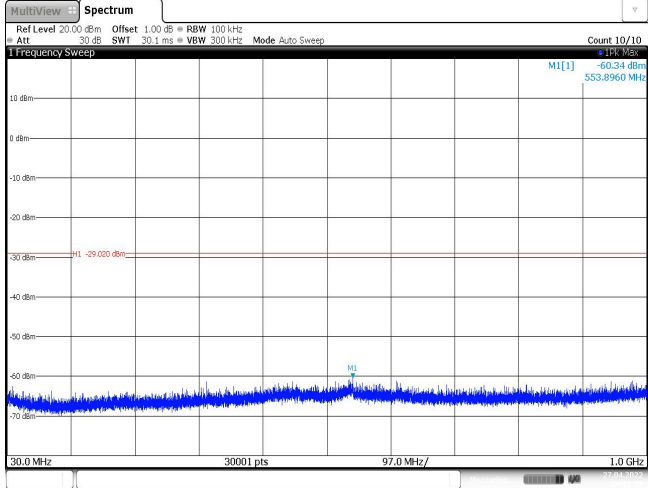
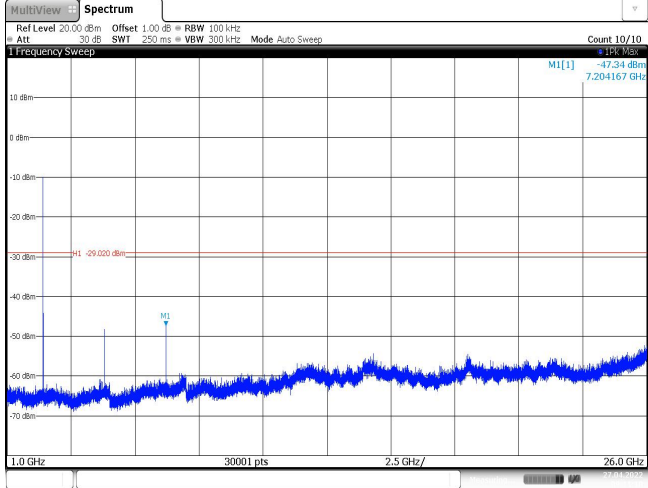


Date: 27 APR 2022 09:16:20

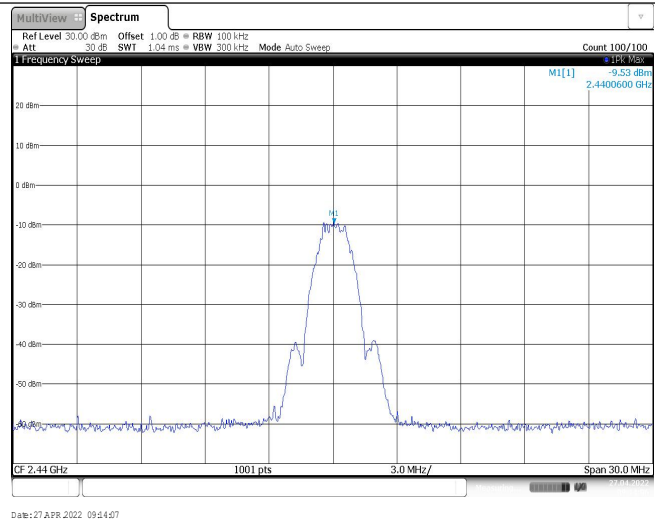
Test Item:	SE	Test Rate:	1Mbps
CH00 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] -6.44 dBm 2.4023000 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27 Apr 2022 09:01:28		
CH00 30MHz~1000MHz	 Ref Level 20.00 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] -60.83 dBm 549.9840 MHz H1 -26.440 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 27 Apr 2022 09:01:44		
CH00 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] -45.20 dBm 7.200000 GHz H1 -26.440 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 27 Apr 2022 09:02:01		



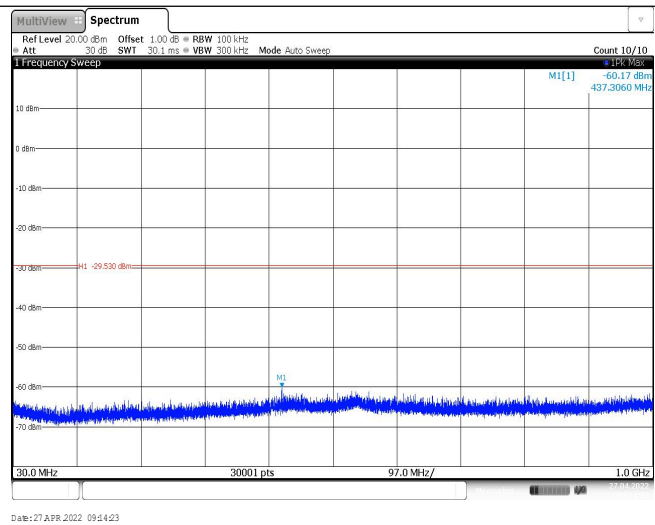


Test Item:	SE	Test Rate:	2Mbps
CH00 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] -9.02 dBm 2.4015500 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27 APR 2022 09:10:37		
CH00 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -60.34 dBm 553.89660 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 27 APR 2022 09:10:53		
CH00 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 MI[1] -47.34 dBm 7.204167 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 27 APR 2022 09:11:10		

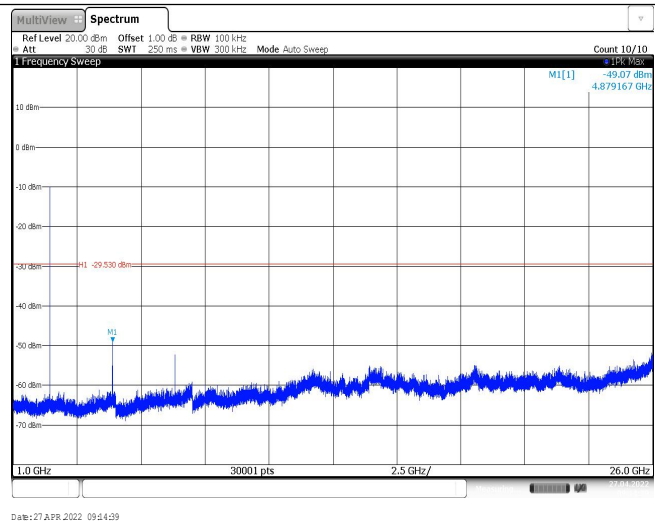
CH19
Reference level

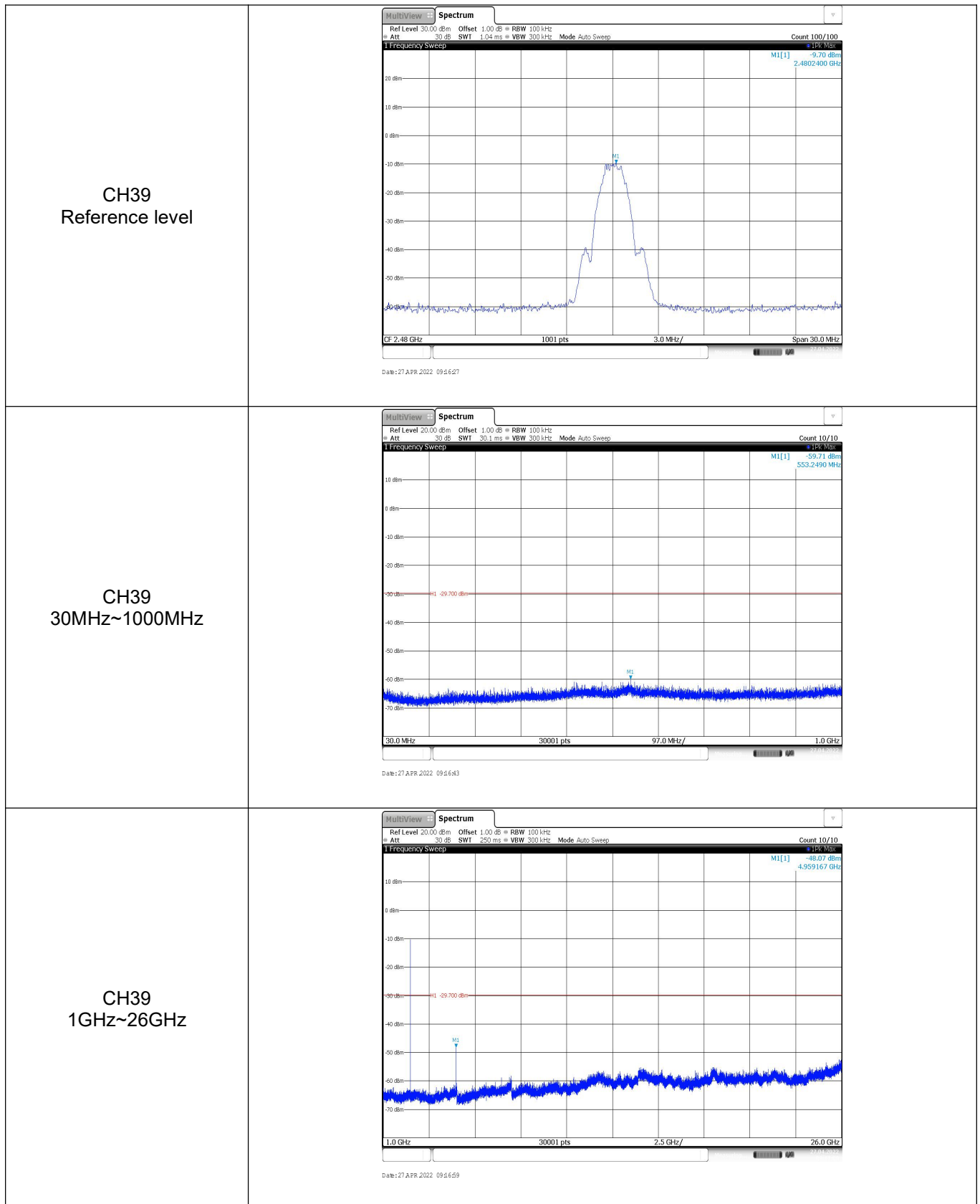


CH19
30MHz~1000MHz



CH19
1GHz~26GHz





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