

Appendix: Bluetooth LE

Contents

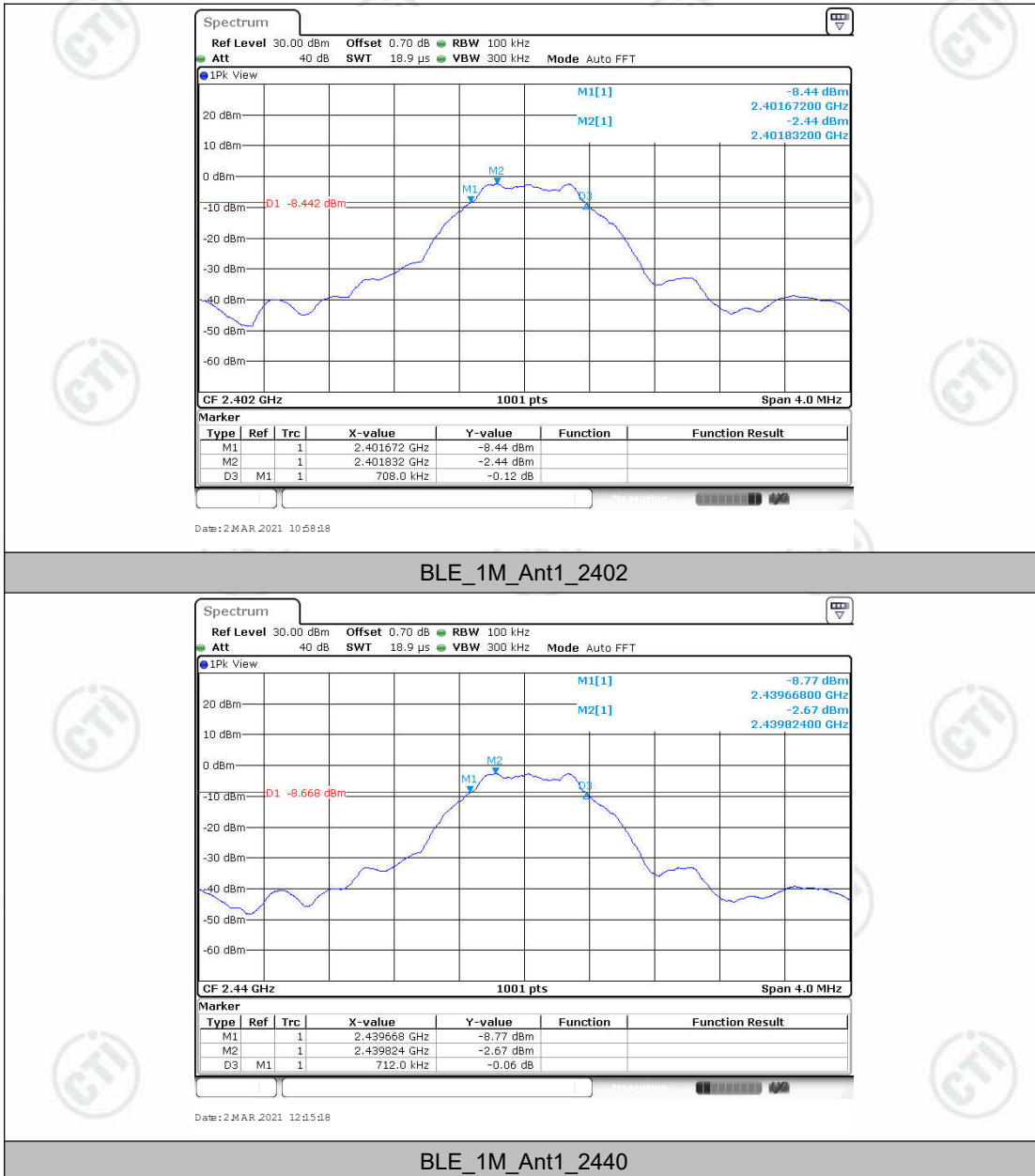
Appendix A: DTS Bandwidth.....	3
Test Result.....	3
Test Graphs.....	4
Appendix B: Occupied Channel Bandwidth.....	6
Test Result.....	6
Test Graphs.....	7
Appendix C: Maximum conducted output power.....	9
Test Result.....	9
Test Graphs.....	10
Appendix D: Maximum power spectral density.....	12
Test Result.....	12
Test Graphs.....	13
Appendix E: Band edge measurements.....	15
Test Result.....	15
Test Graphs.....	16
Appendix F: Conducted Spurious Emission.....	17
Test Result.....	17
Test Graphs.....	18
Appendix G: Duty Cycle.....	23
Test Result.....	23
Test Graphs.....	24

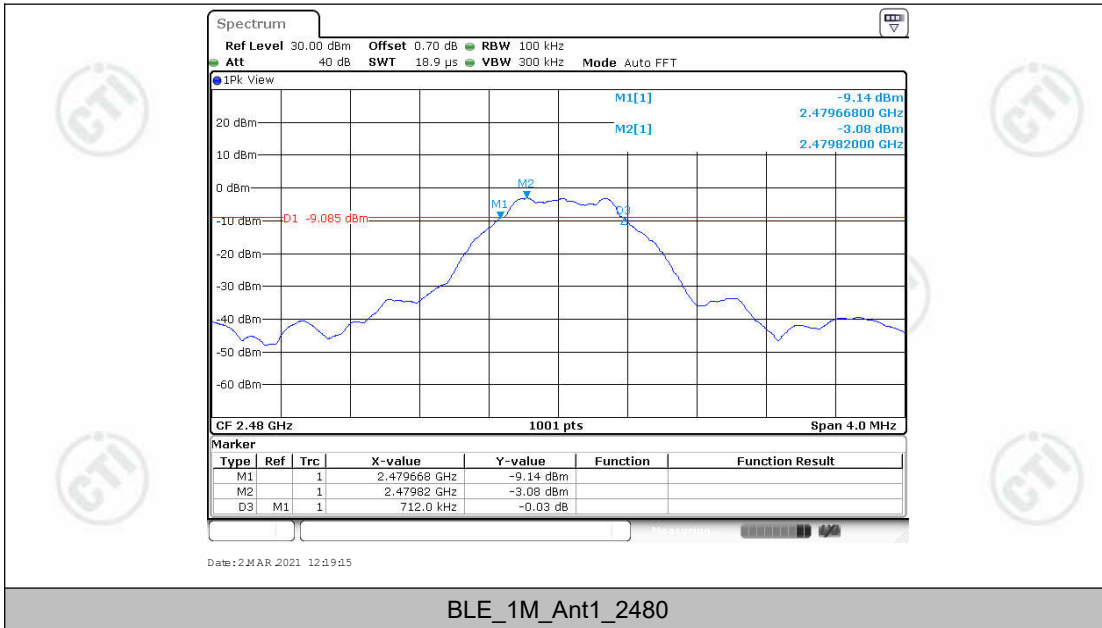
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.708	2401.672	2402.380	0.5	PASS
		2440	0.712	2439.668	2440.380	0.5	PASS
		2480	0.712	2479.668	2480.380	0.5	PASS

Test Graphs



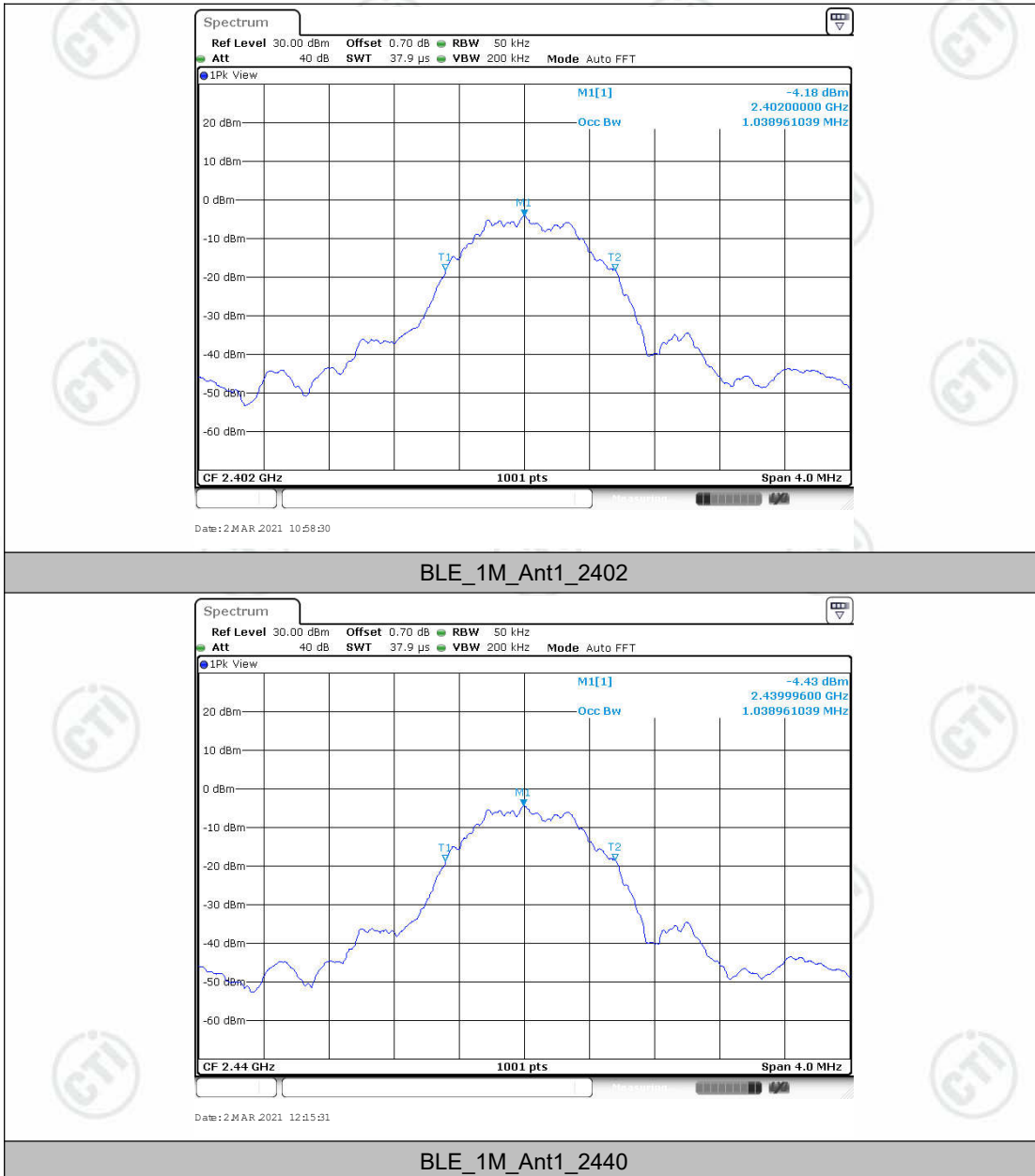


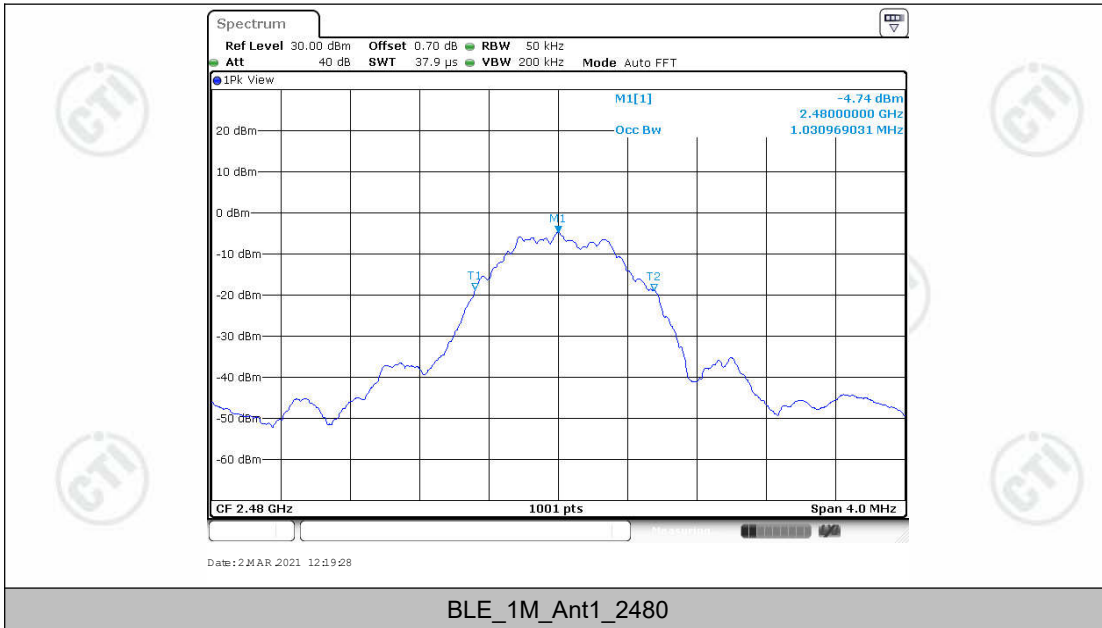
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.039	2401.516	2402.555	---	PASS
		2440	1.039	2439.516	2440.555	---	PASS
		2480	1.031	2479.520	2480.551	---	PASS

Test Graphs



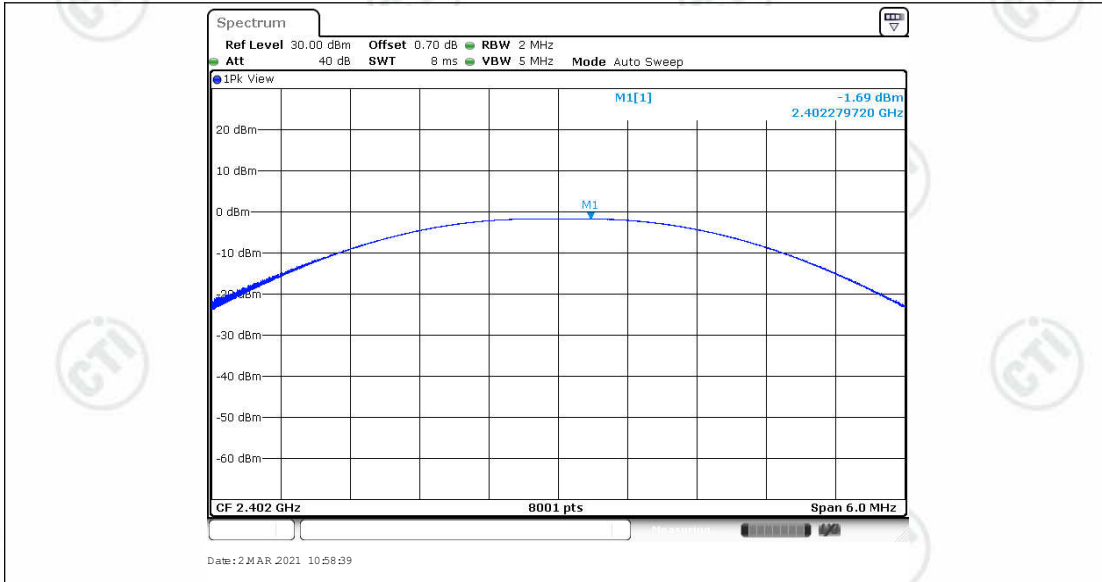


Appendix C: Maximum conducted output power

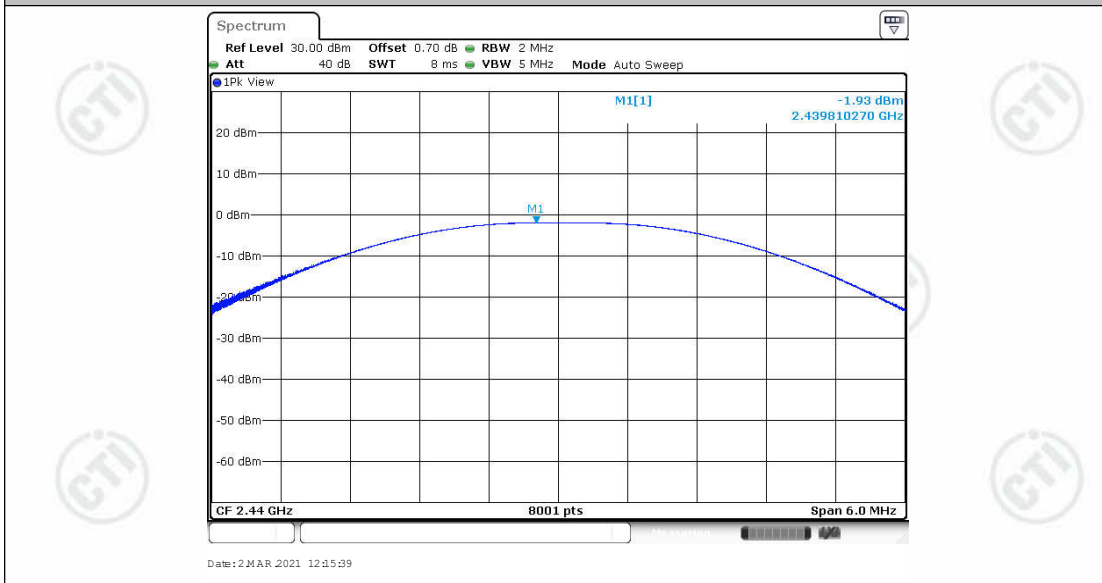
Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.69	<=30	PASS
		2440	-1.93	<=30	PASS
		2480	-2.32	<=30	PASS

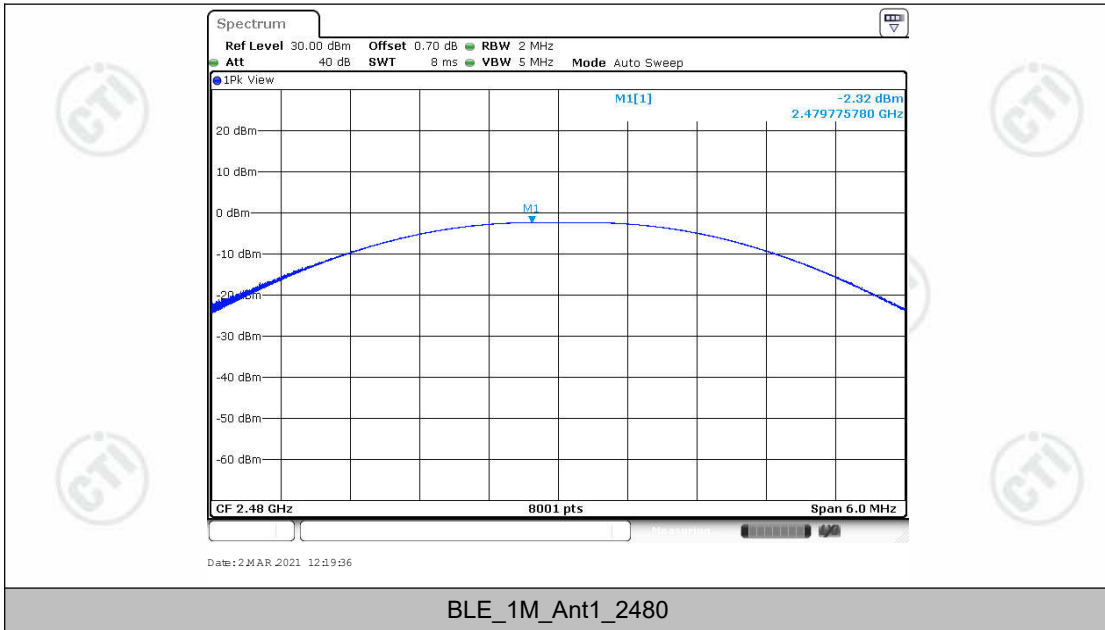
Test Graphs



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

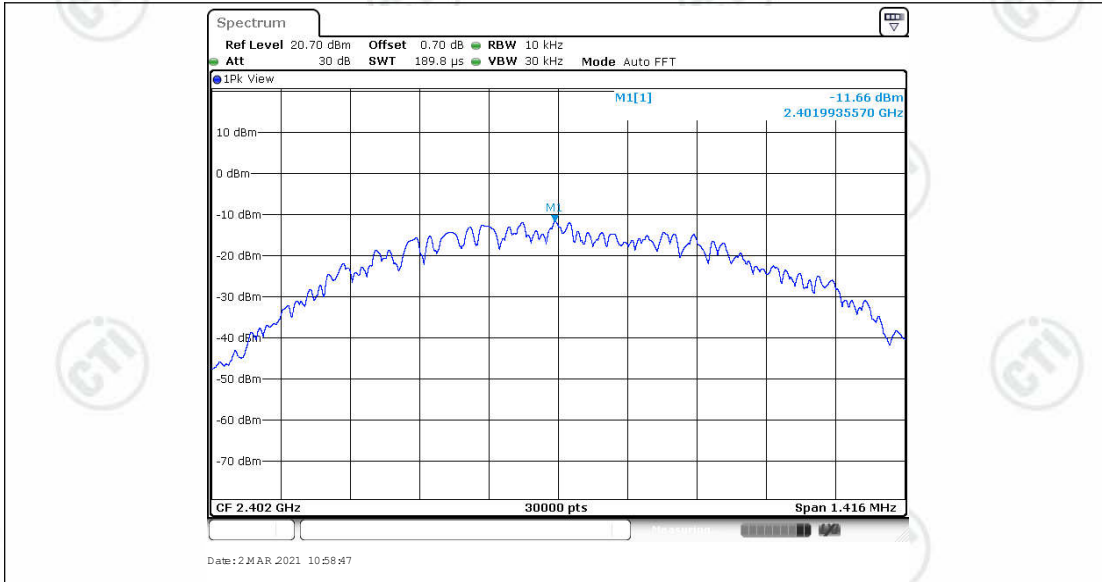


Appendix D: Maximum power spectral density

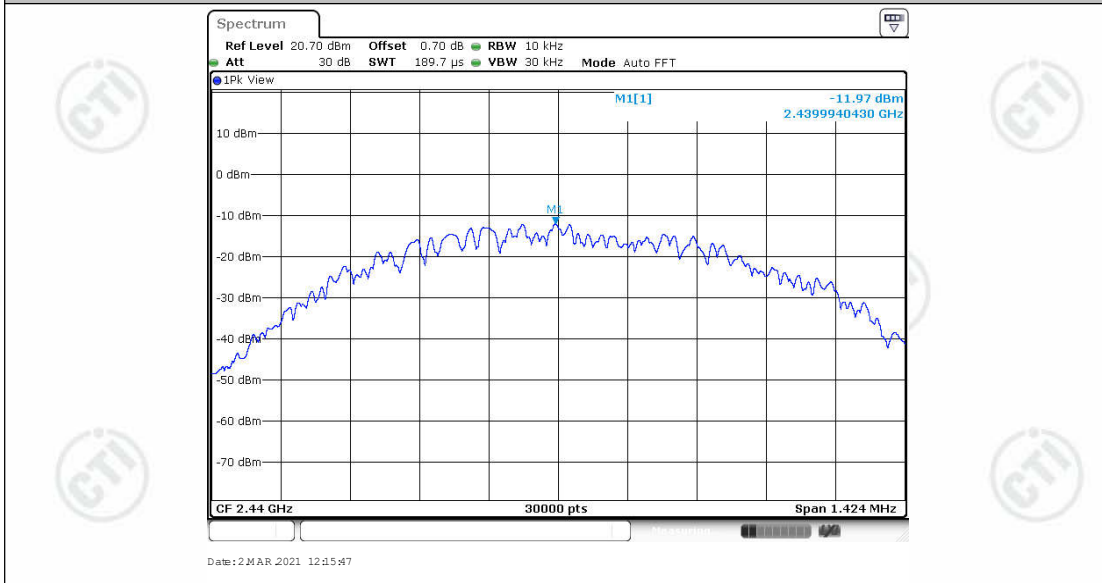
Test Result

Test Mode	Antenna	Channel	Result [dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.66	<=8	PASS
		2440	-11.97	<=8	PASS
		2480	-12.4	<=8	PASS

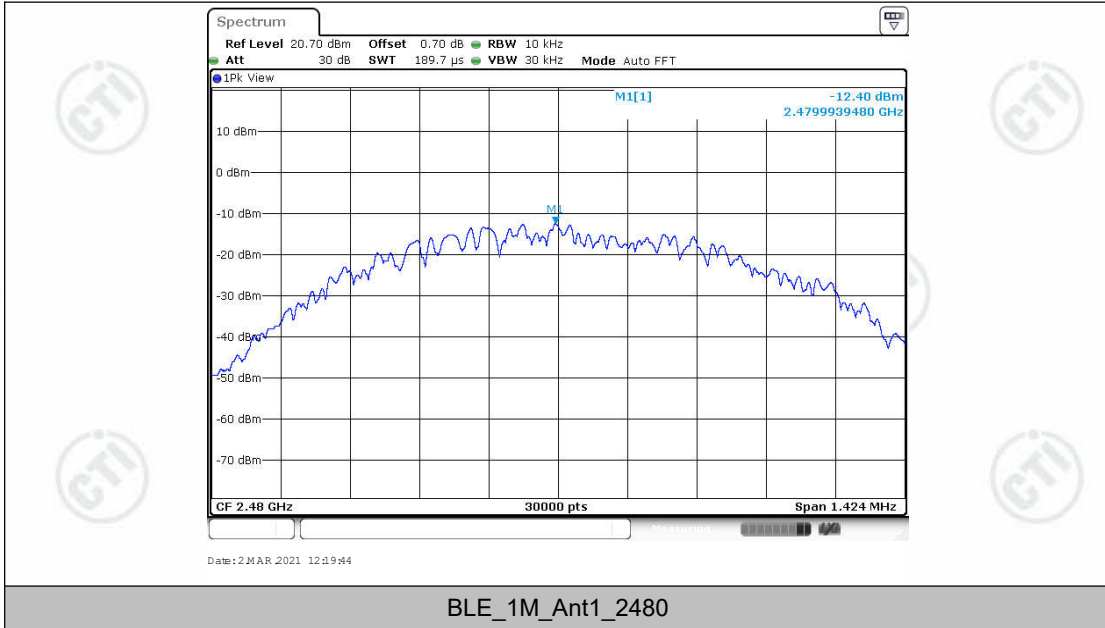
Test Graphs



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

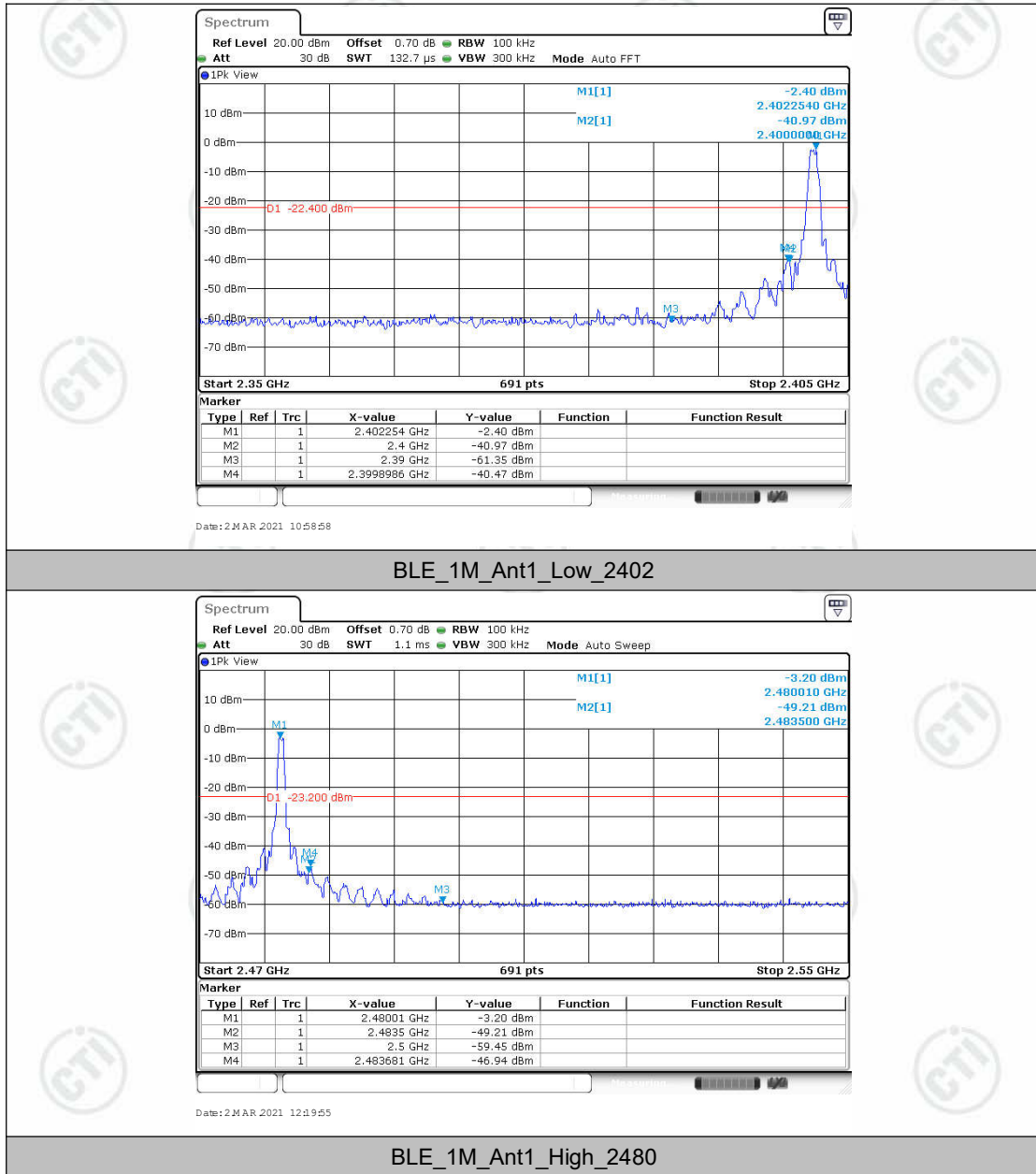


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.40	-40.47	<=-22.4	PASS
		High	2480	-3.20	-46.94	<=-23.2	PASS

Test Graphs

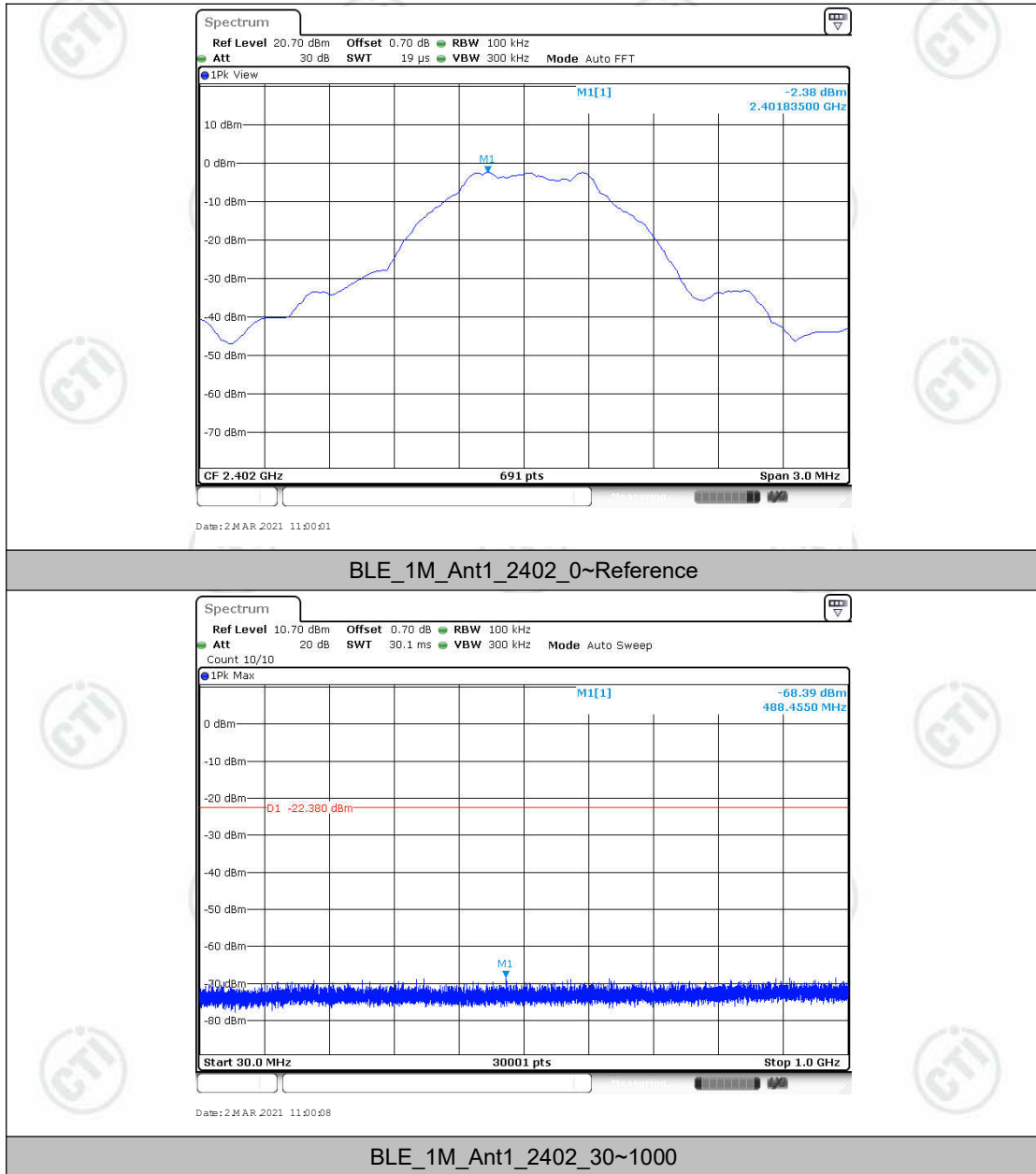


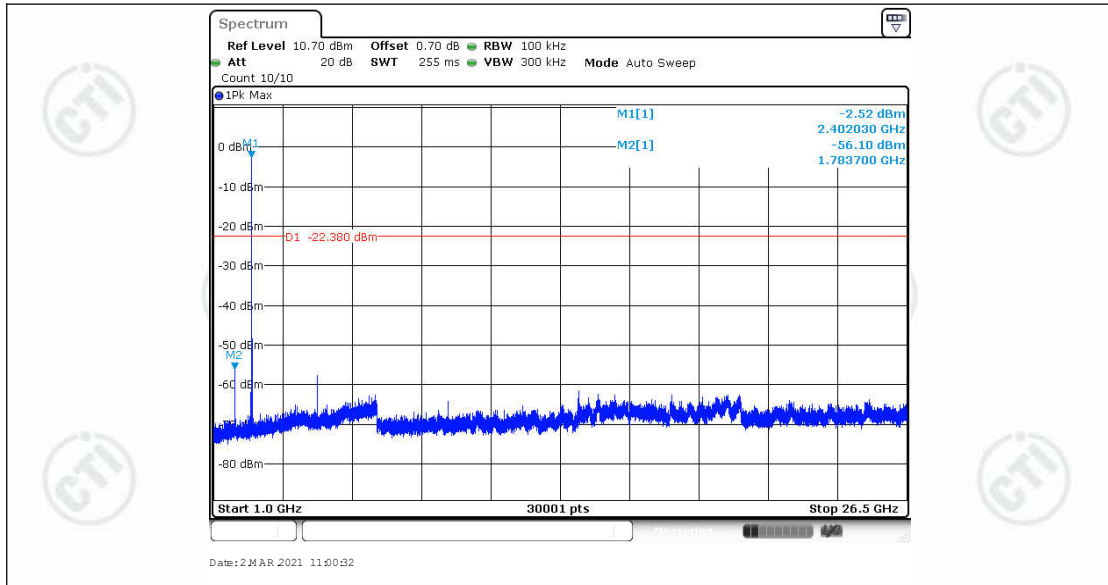
Appendix F: Conducted Spurious Emission

Test Result

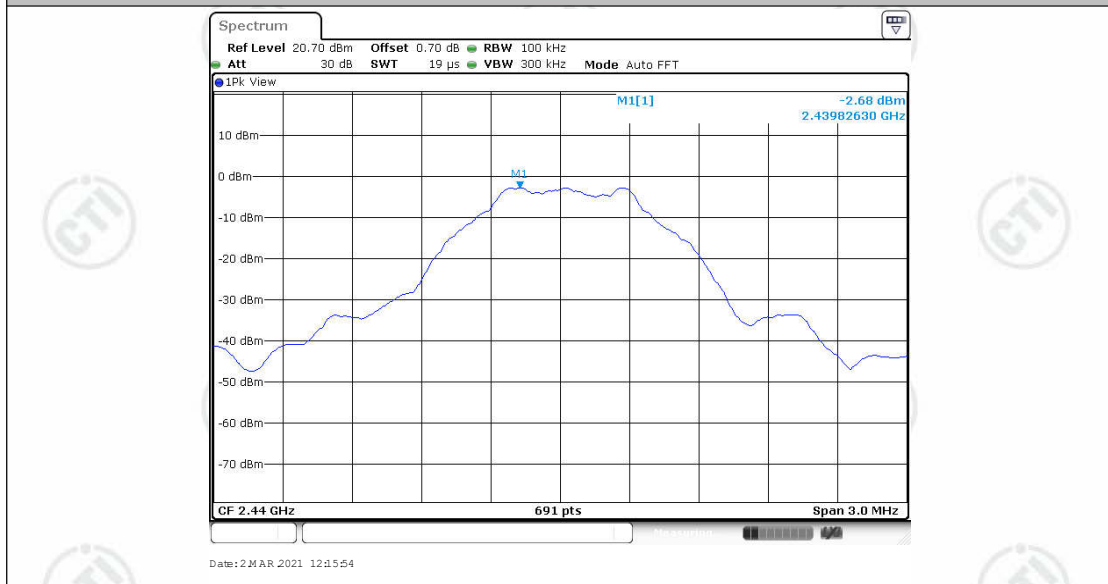
Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict	
BLE_1M	Ant1	2402	Reference	-2.38	-2.38	---	PASS	
			30~1000	-2.38	-68.39	<=-22.38	PASS	
			1000~26500	-2.38	-56.1	<=-22.38	PASS	
		2440	2440	Reference	-2.68	-2.68	---	PASS
				30~1000	-2.68	-68.04	<=-22.68	PASS
				1000~26500	-2.68	-55.59	<=-22.68	PASS
		2480	2480	Reference	-3.13	-3.13	---	PASS
				30~1000	-3.13	-68.29	<=-23.13	PASS
				1000~26500	-3.13	-55.43	<=-23.13	PASS

Test Graphs

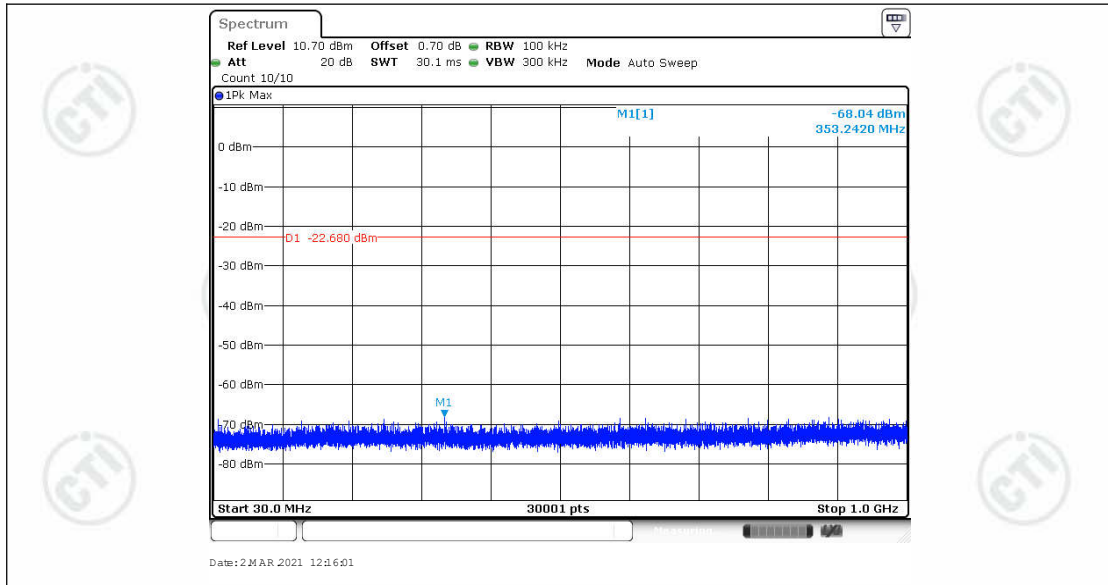




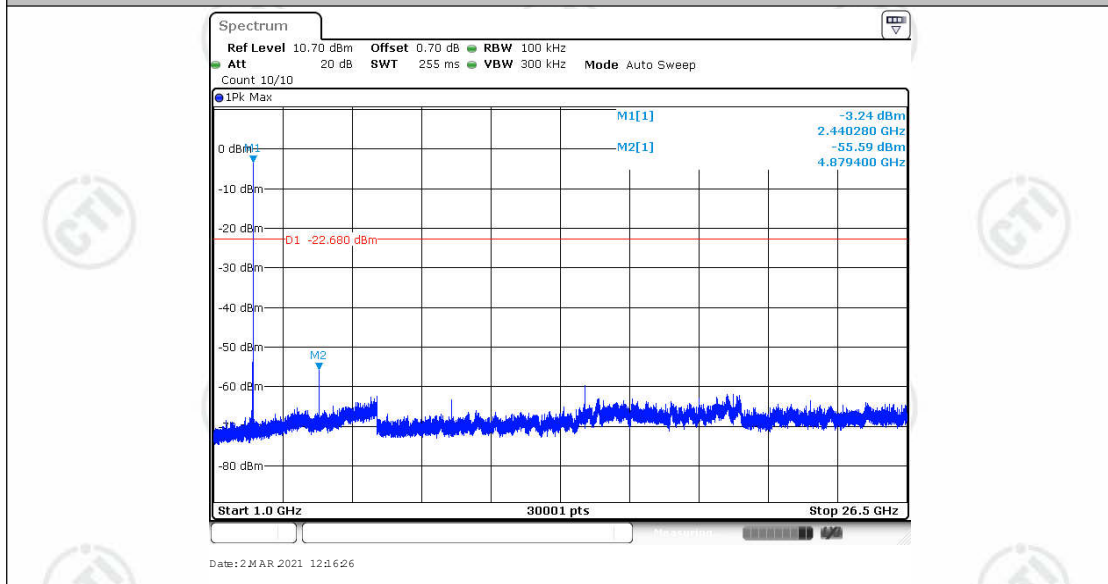
BLE_1M_Ant1_2402_1000~26500



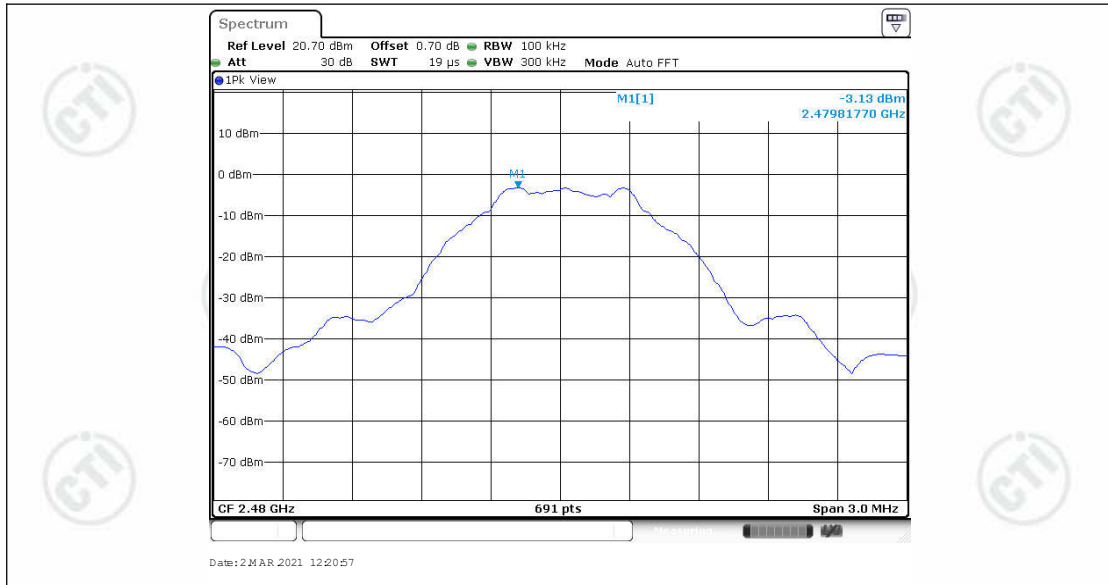
BLE_1M_Ant1_2440_0~Reference



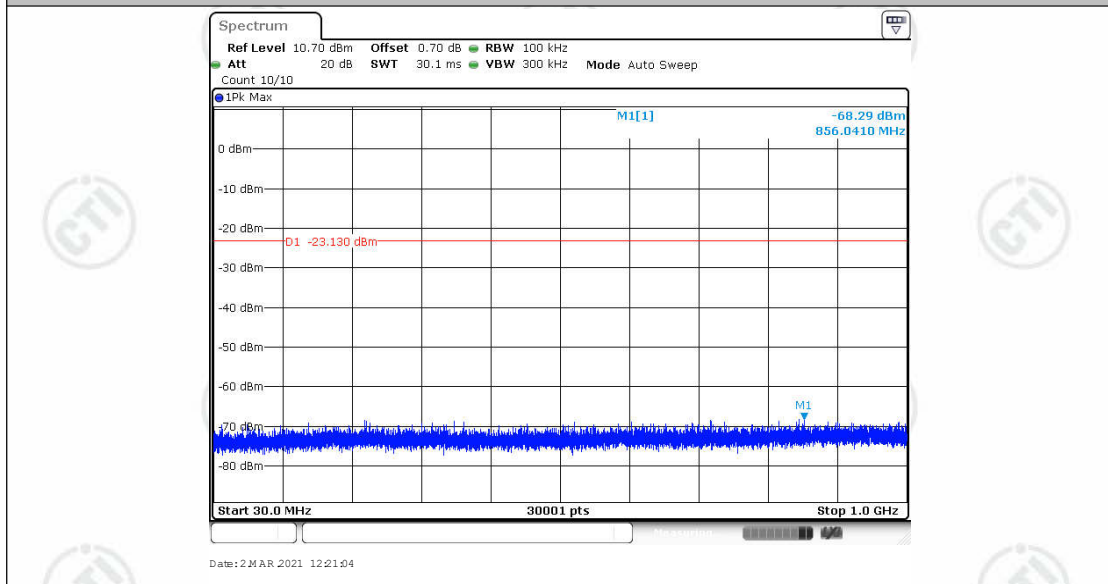
BLE_1M_Ant1_2440_30~1000



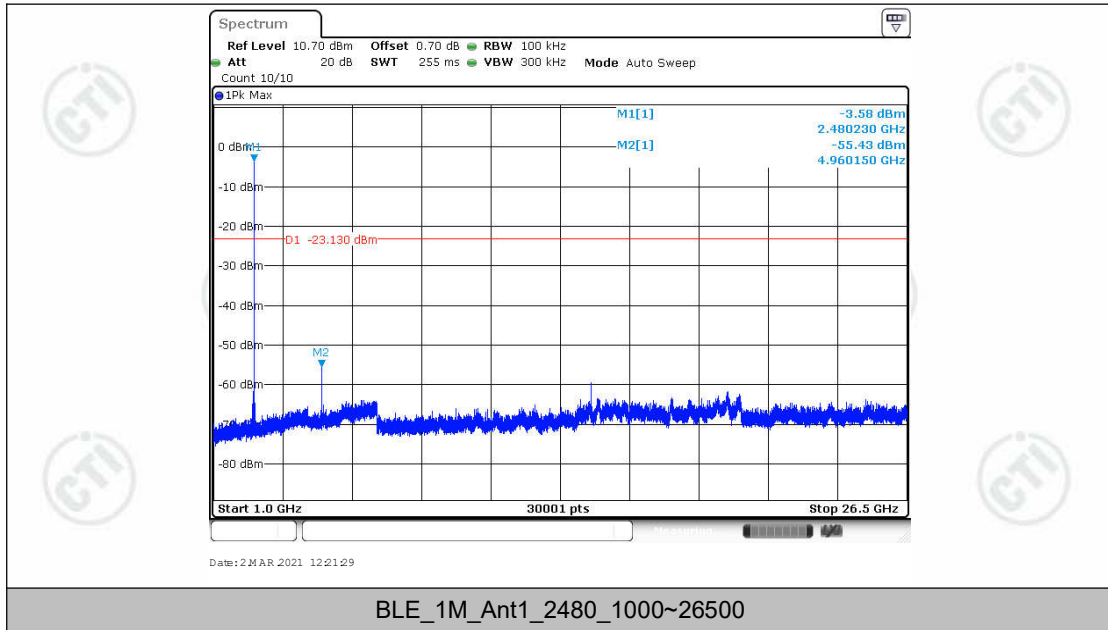
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.62	62.90	---	PASS
		2440	0.39	0.62	62.90	---	PASS
		2480	0.39	0.62	62.90	---	PASS

Test Graphs

