

Appendix Test Data

Report No.:	18220WC30211302	Test Sample No.:	1-2-2
Start Test Date:	2023.09.26	Finish Test Date:	2023.10.07
Test Engineer:	Hayman Chen	Auditor:	Rock Luo
Temperature:	25.6°C	Relative Humidity:	53.1%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

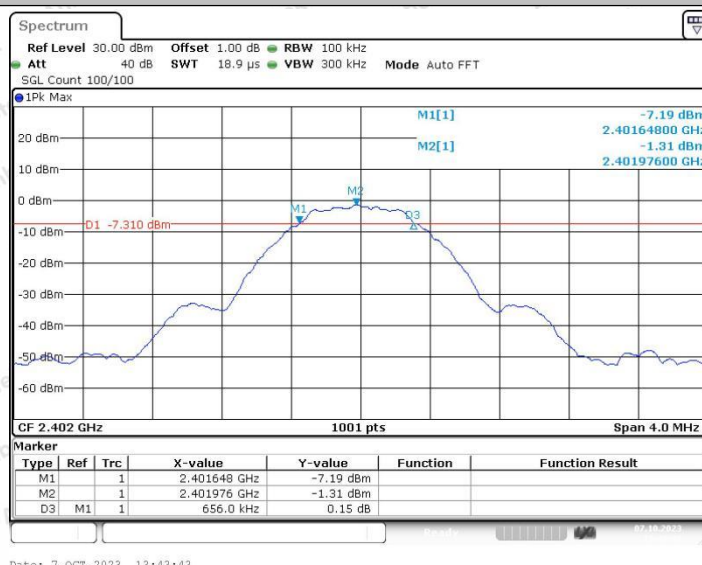
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.66	2401.65	2402.30	0.5	PASS
		2440	0.64	2439.66	2440.30	0.5	PASS
		2480	0.68	2479.62	2480.31	0.5	PASS

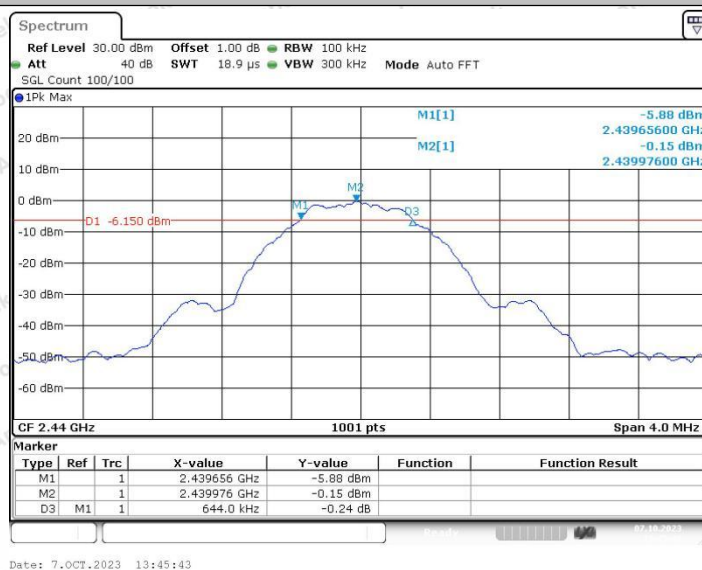


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

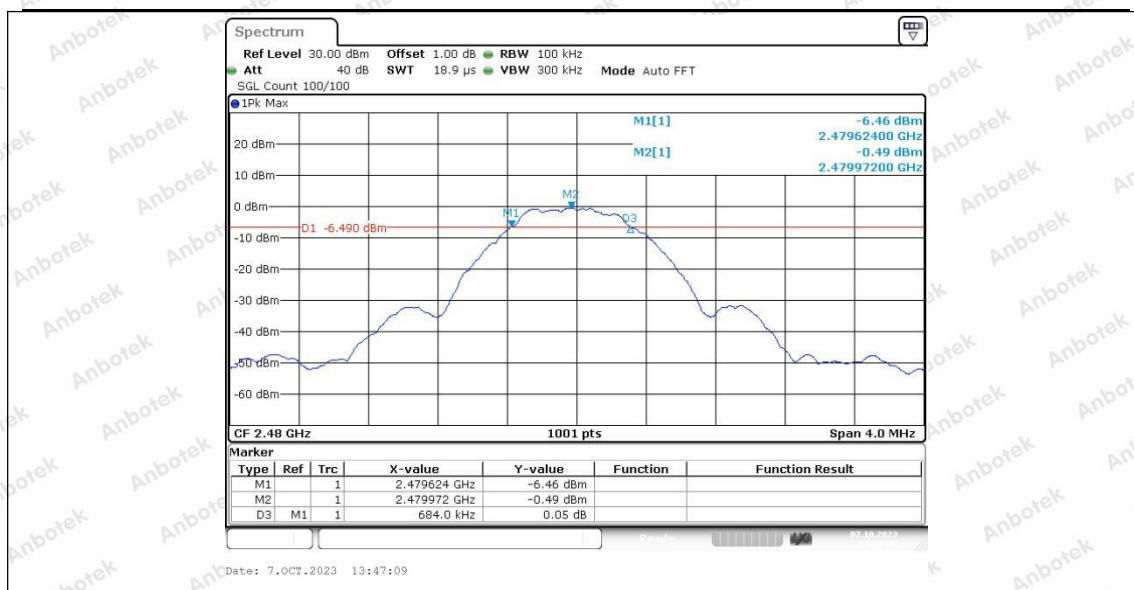
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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.007	2401.4765	2402.4835
		2440	1.007	2439.4765	2440.4835
		2480	1.015	2479.4685	2480.4835

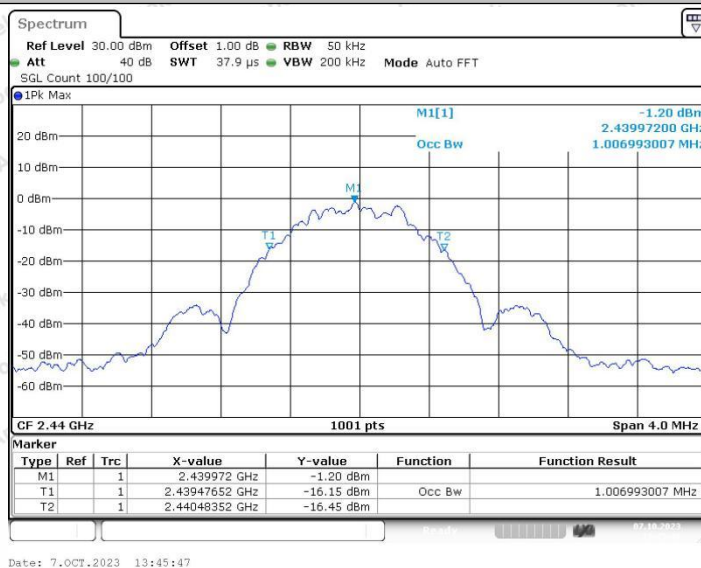


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

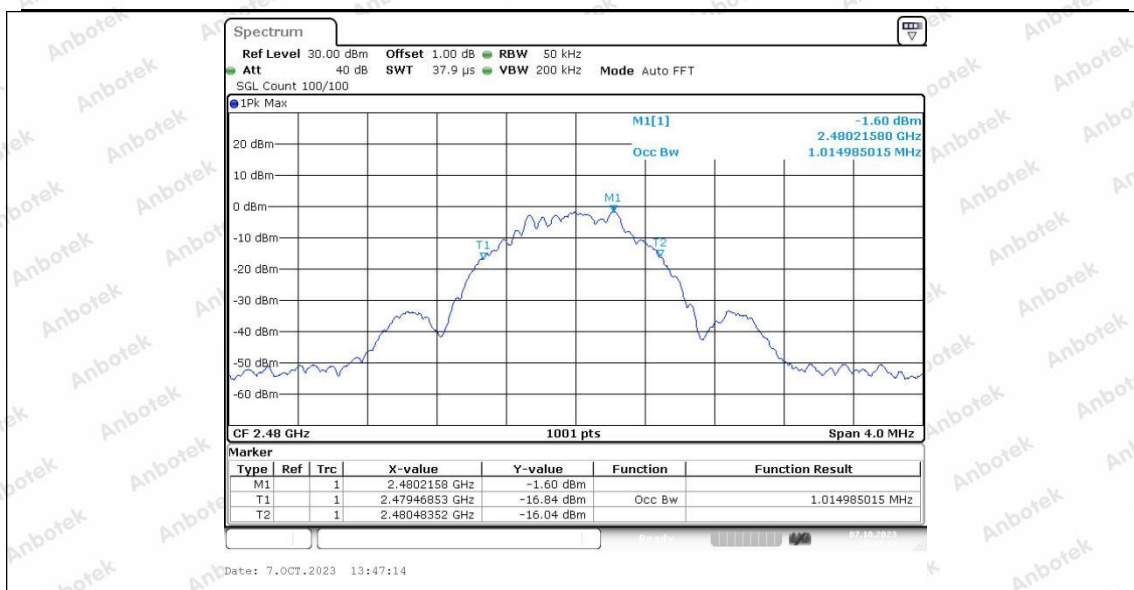
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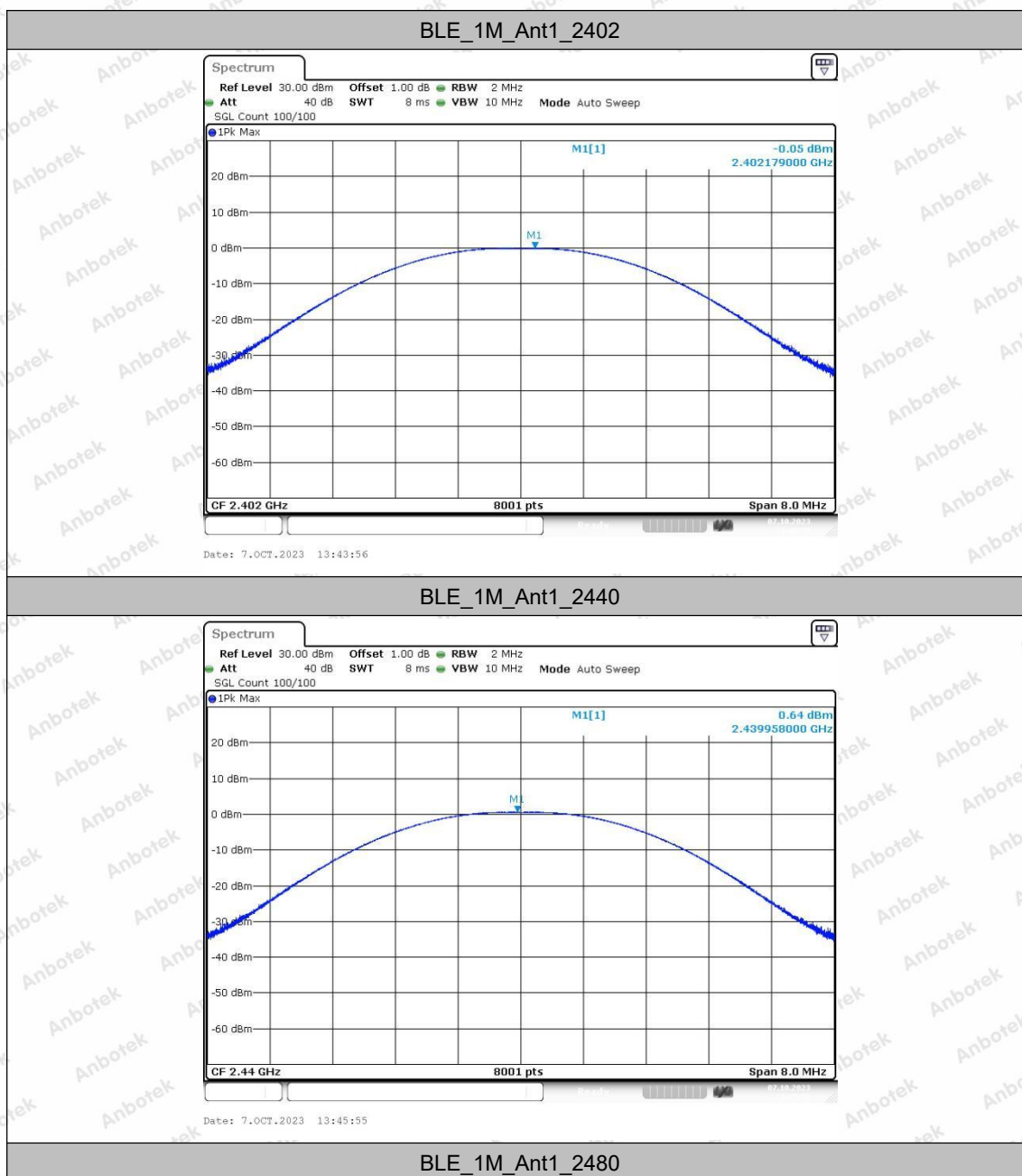
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.05	≤30	PASS
		2440	0.64	≤30	PASS
		2480	1.20	≤30	PASS



Test Graphs Peak



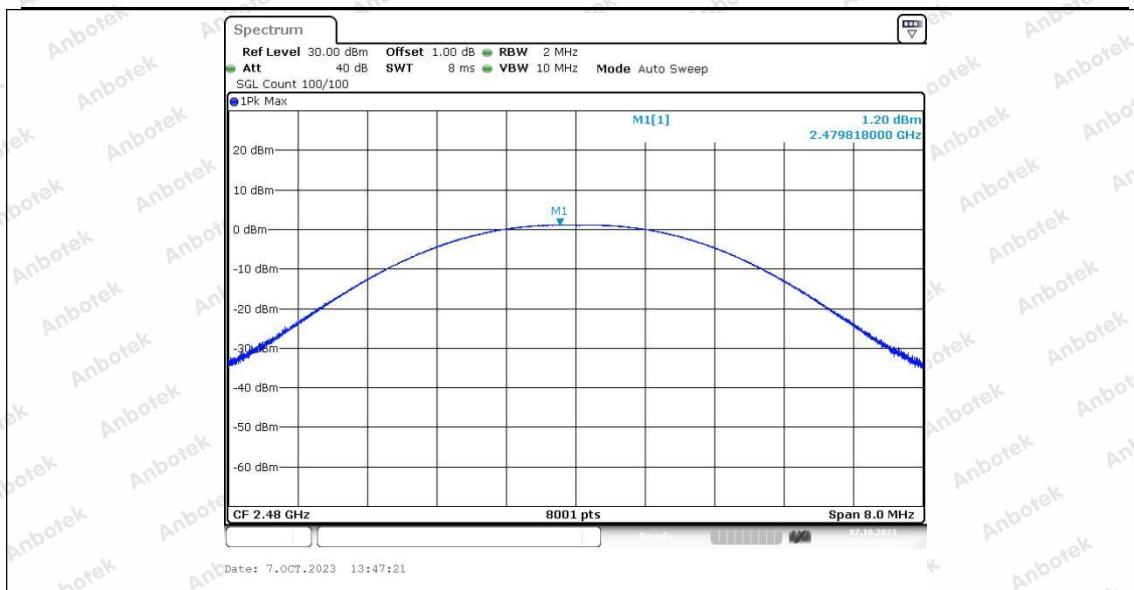
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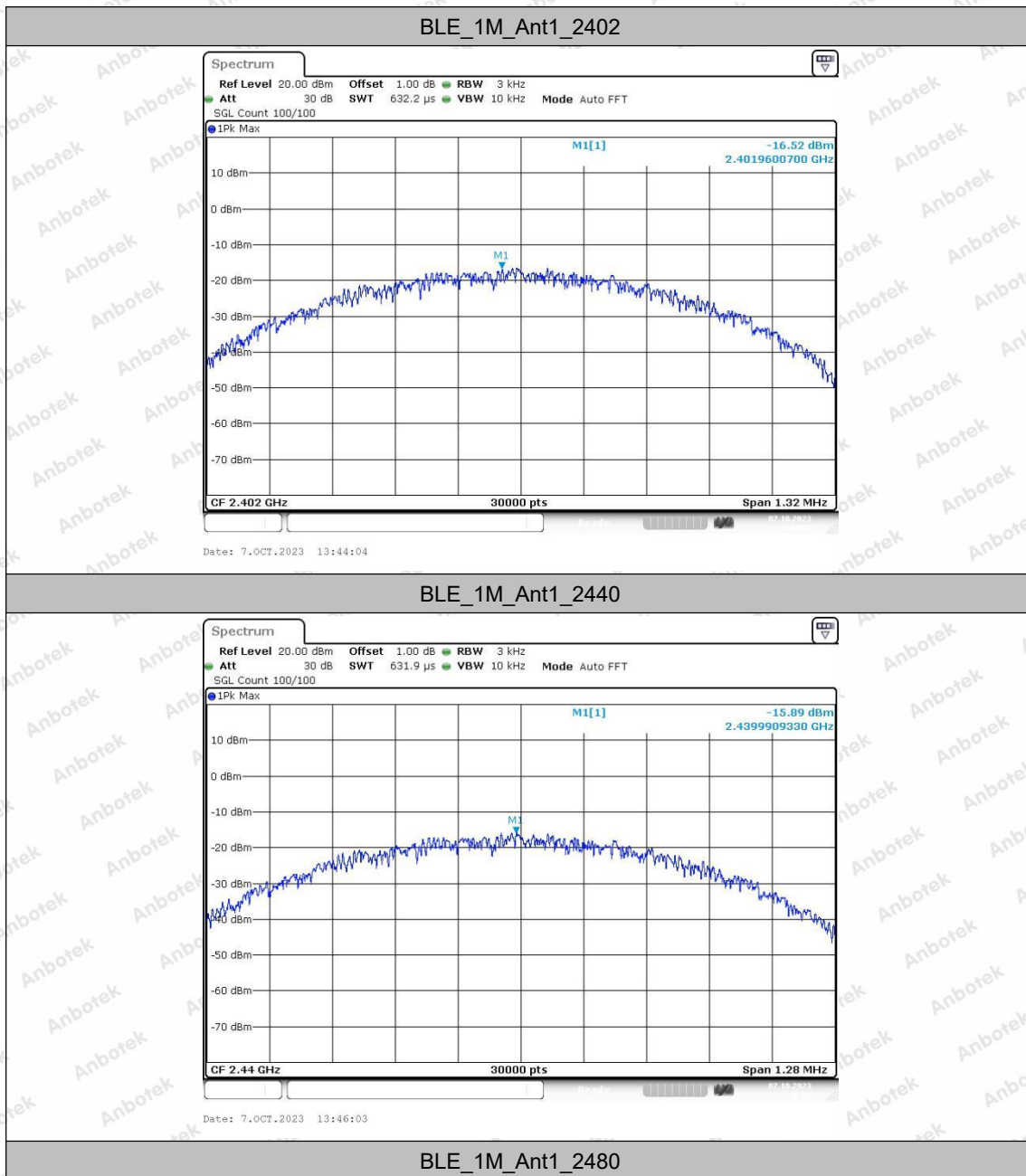
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.52	≤8.00	PASS
		2440	-15.89	≤8.00	PASS
		2480	-15.35	≤8.00	PASS



Test Graphs



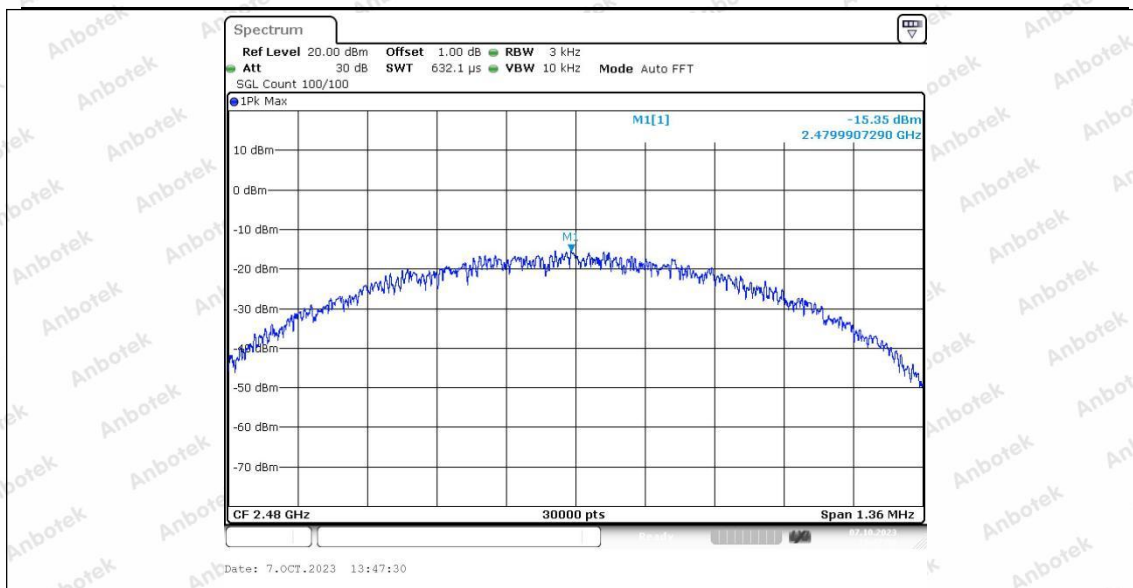
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.34	-53.67	≤-21.34	PASS
		High	2480	0.96	-55.96	≤-19.04	PASS

Test Graphs



Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.14	-1.14	---	PASS
			30~1000	-1.14	-54.15	≤-21.14	PASS
			1000~26500	-1.14	-45.65	≤-21.14	PASS
		2440	Reference	-1.01	-1.01	---	PASS
			30~1000	-1.01	-53.89	≤-21.01	PASS
			1000~26500	-1.01	-45.05	≤-21.01	PASS
		2480	Reference	-1.01	-1.01	---	PASS
			30~1000	-1.01	-54.54	≤-21.01	PASS
			1000~26500	-1.01	-45.63	≤-21.01	PASS

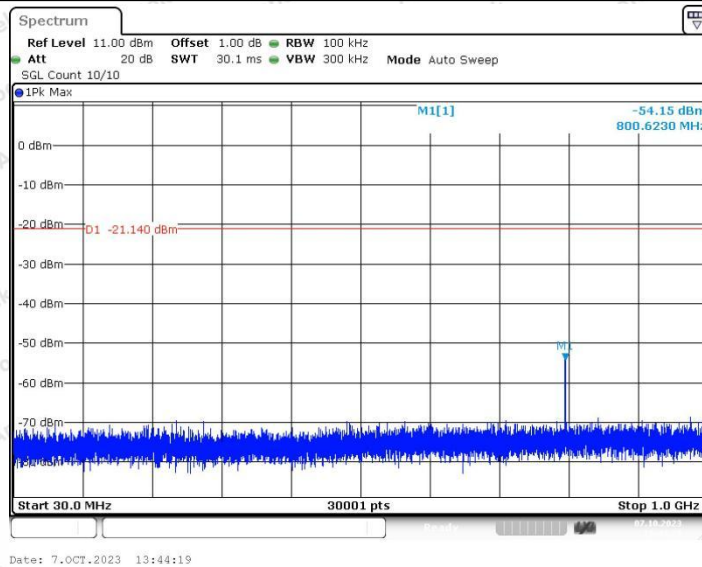


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

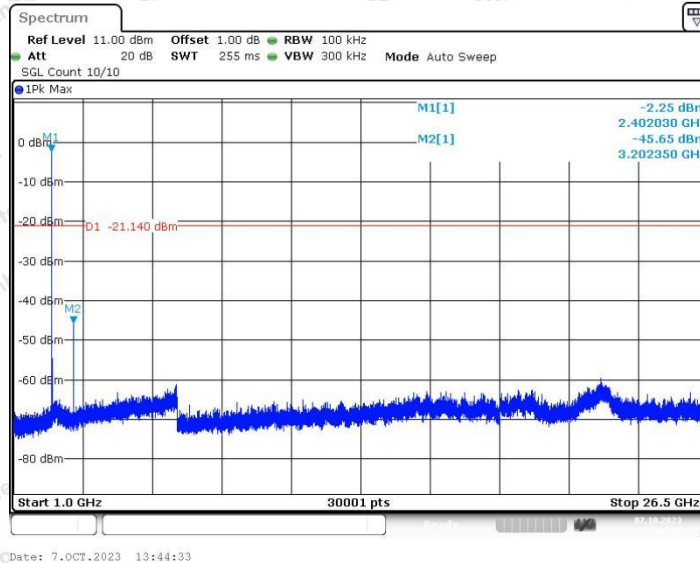
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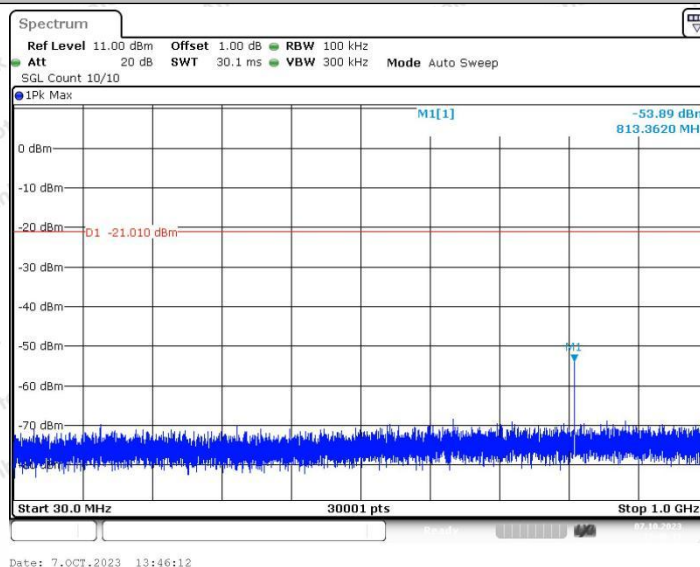




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

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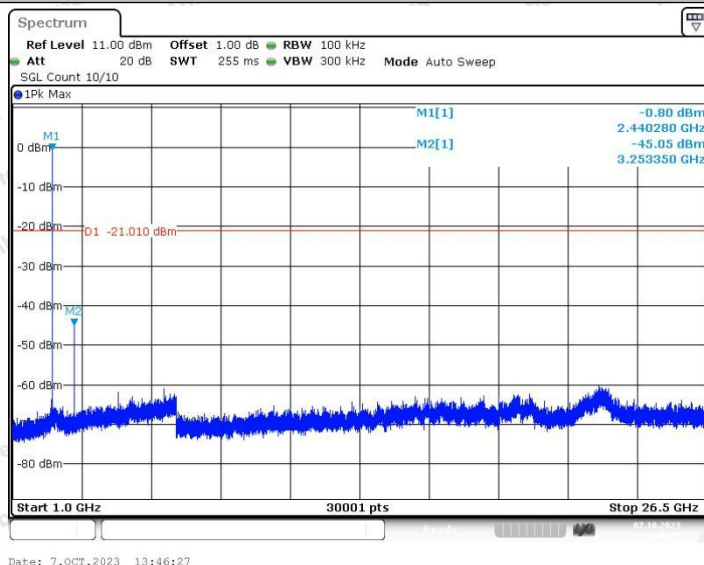
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

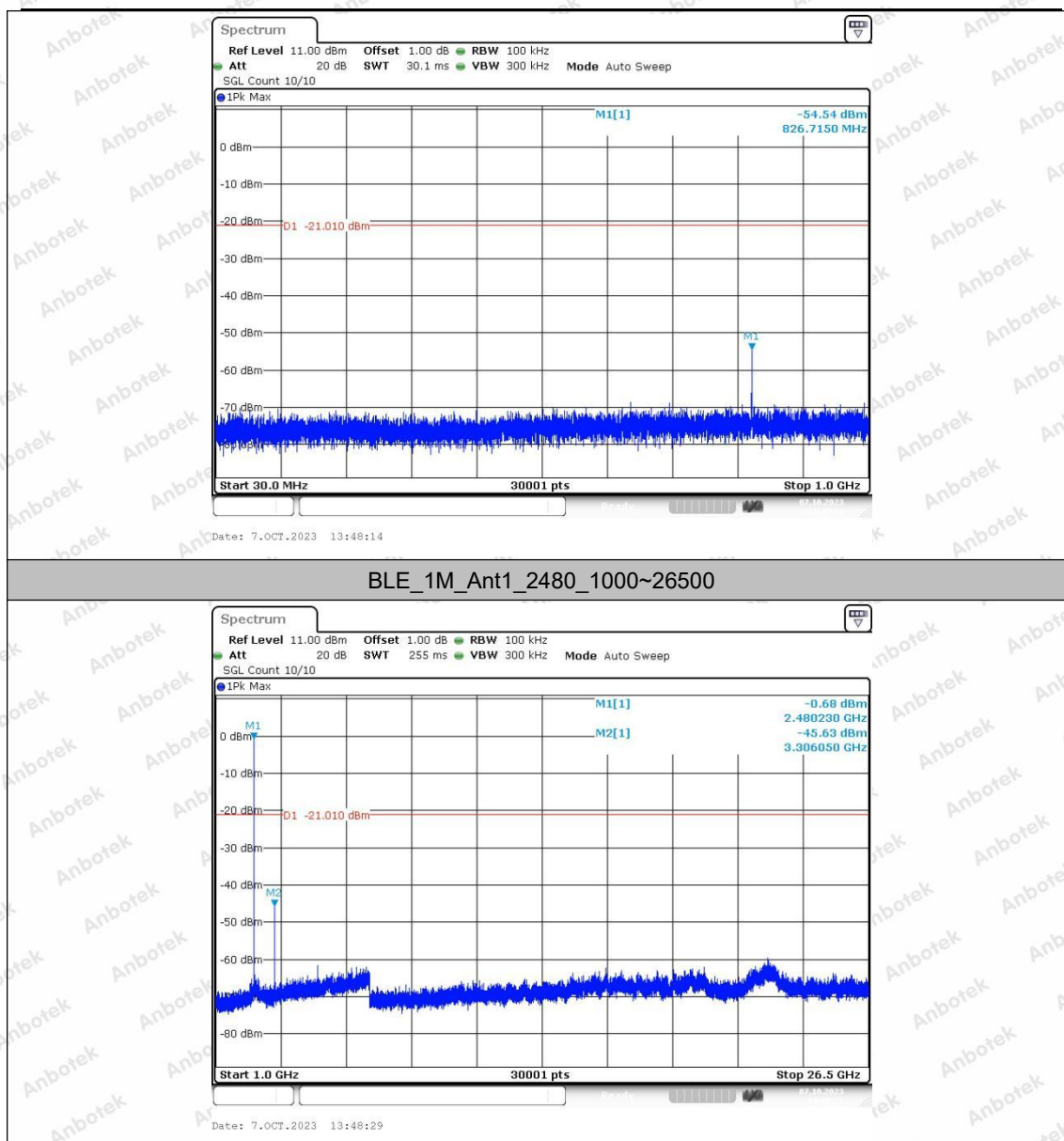
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Appendix G: Duty Cycle

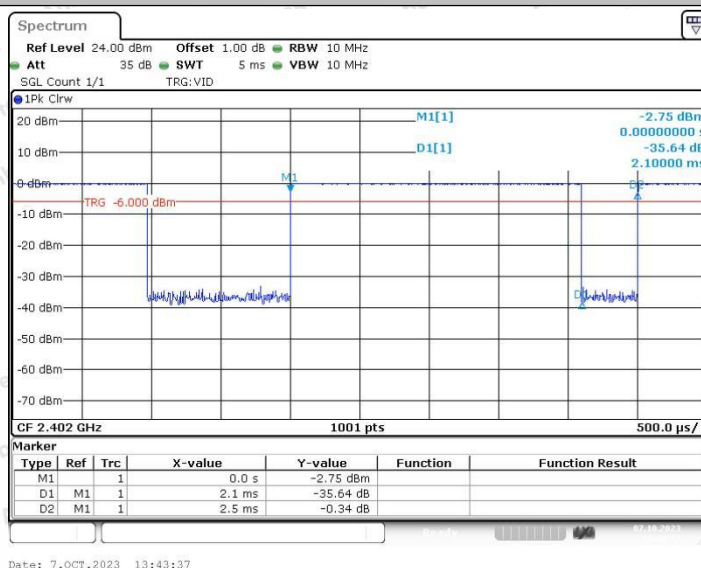
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.10	2.50	84.00	0.76
		2440	2.10	2.50	84.00	0.76
		2480	2.09	2.50	83.60	0.78

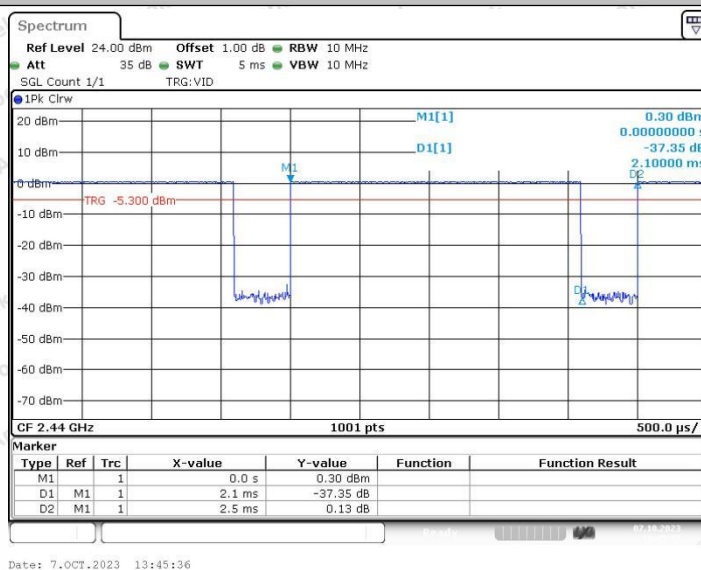


Test Graphs

BLE_1M_Ant1_2402

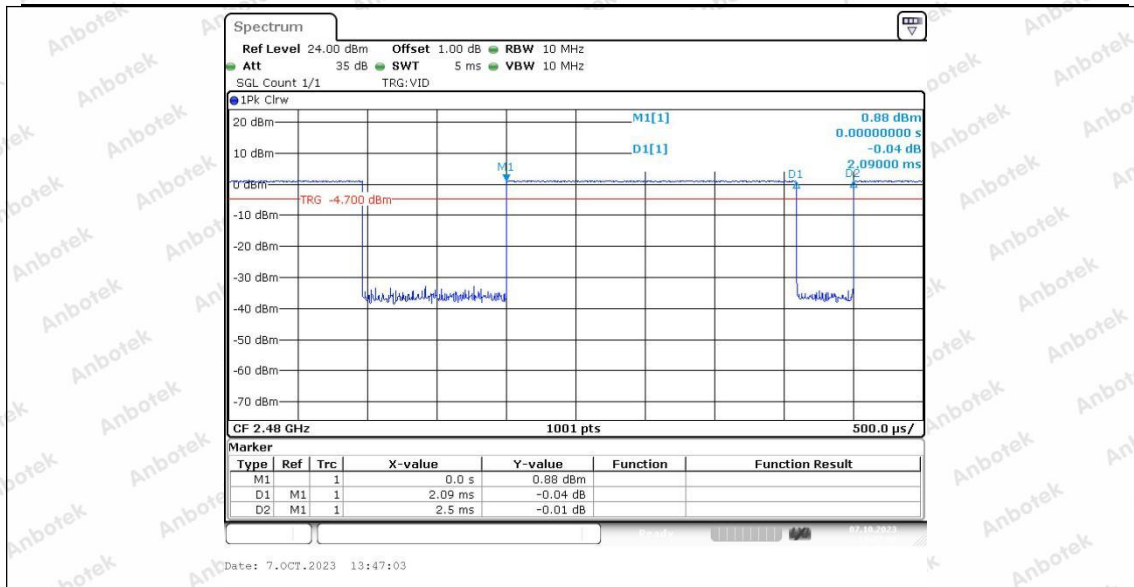


BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





---End---

