

Appendix Test Data

Report No.:	18220WC30227501	Test Sample No.:	1-2-2
Start Test Date:	2023.10.27	Finish Test Date:	2023.10.28
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.9°C	Relative Humidity:	48%
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	2402.32	0.5	PASS
		2440	0.64	2439.66	2440.30	0.5	PASS
		2480	0.67	2479.66	2480.33	0.5	PASS
BLE_2M	Ant1	2402	0.91	2401.45	2402.36	0.5	PASS
		2440	1.34	2439.31	2440.65	0.5	PASS
		2480	1.04	2479.47	2480.51	0.5	PASS

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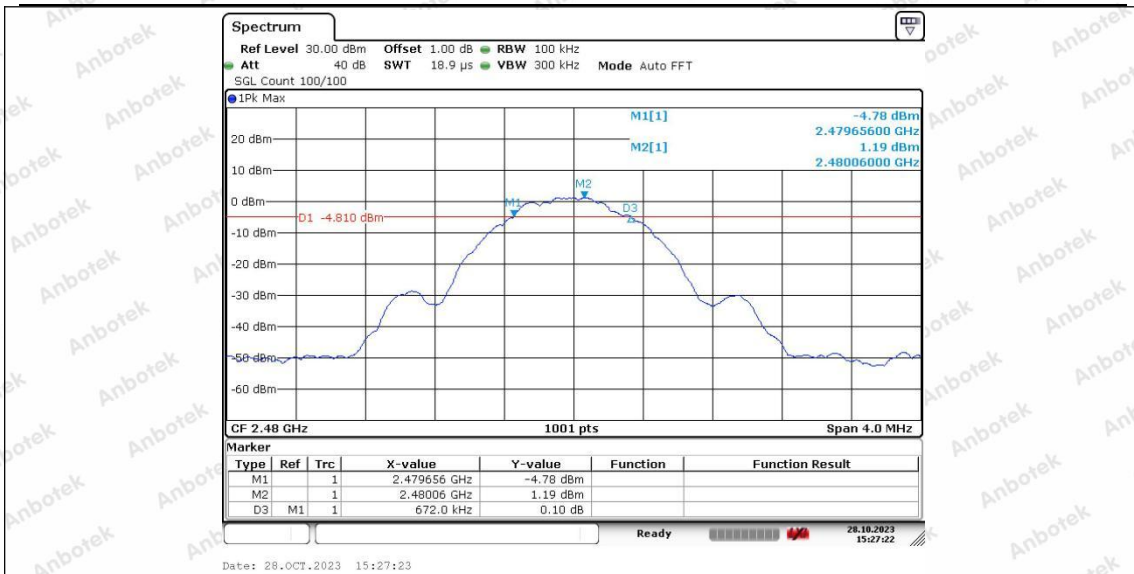


Test Graphs

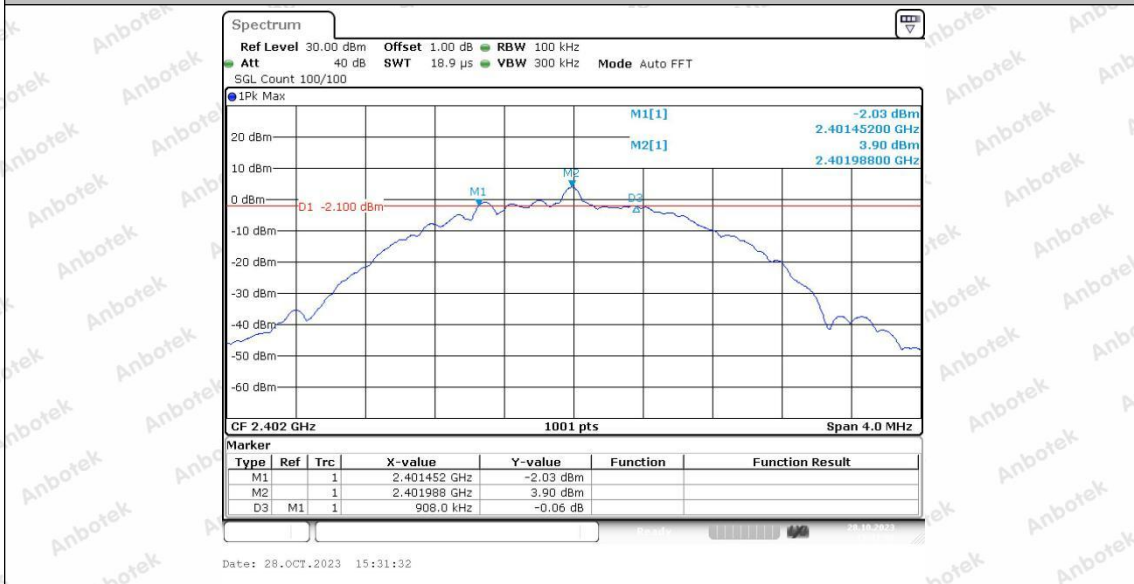


BLE_1M_Ant1_2480



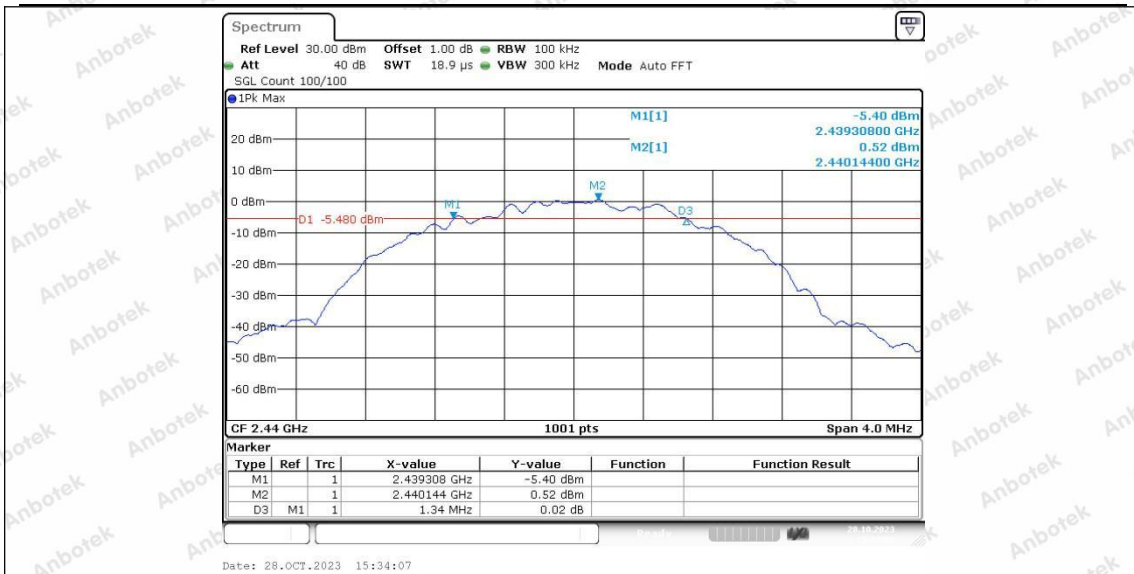


BLE_2M_Ant1_2402

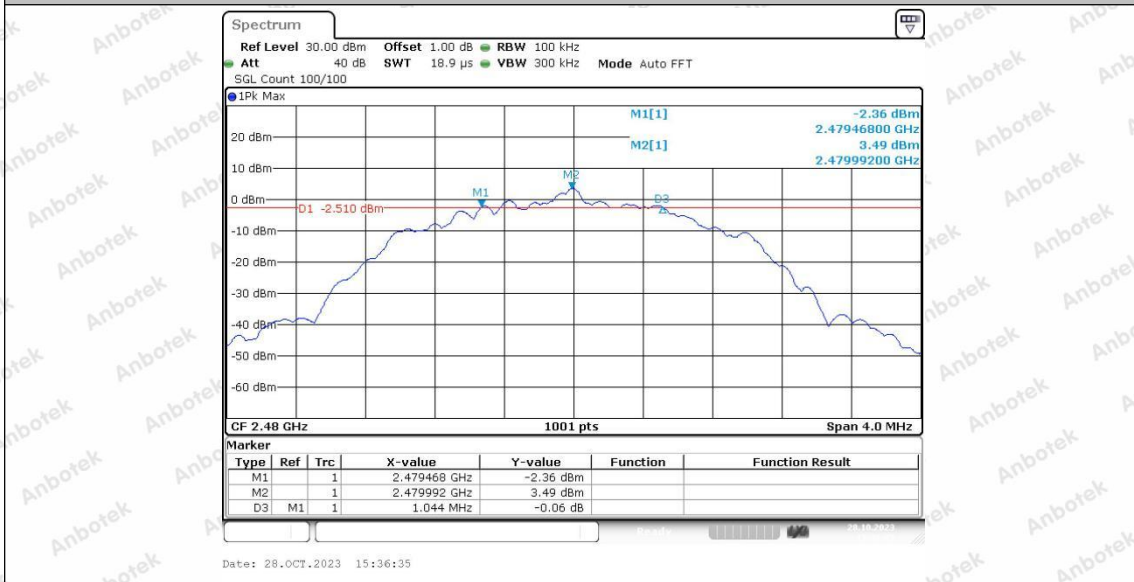


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.027	2401.4765	2402.5035
		2440	1.011	2439.4805	2440.4915
		2480	1.023	2479.4725	2480.4955
BLE_2M	Ant1	2402	2.034	2400.9770	2403.0110
		2440	2.006	2438.9890	2440.9950
		2480	2.022	2478.9810	2481.0030

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Test Graphs



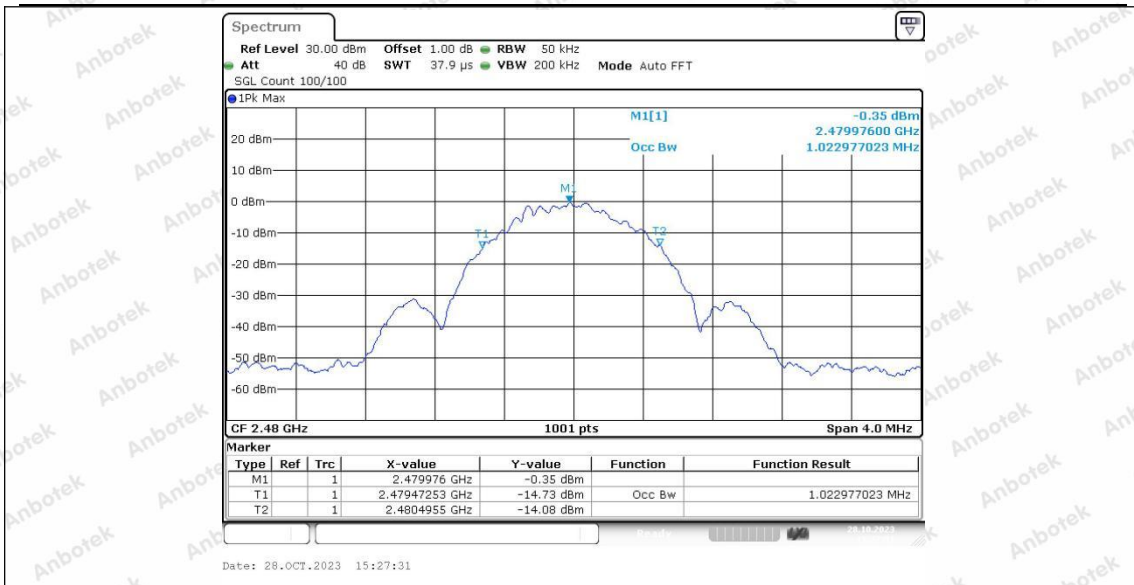
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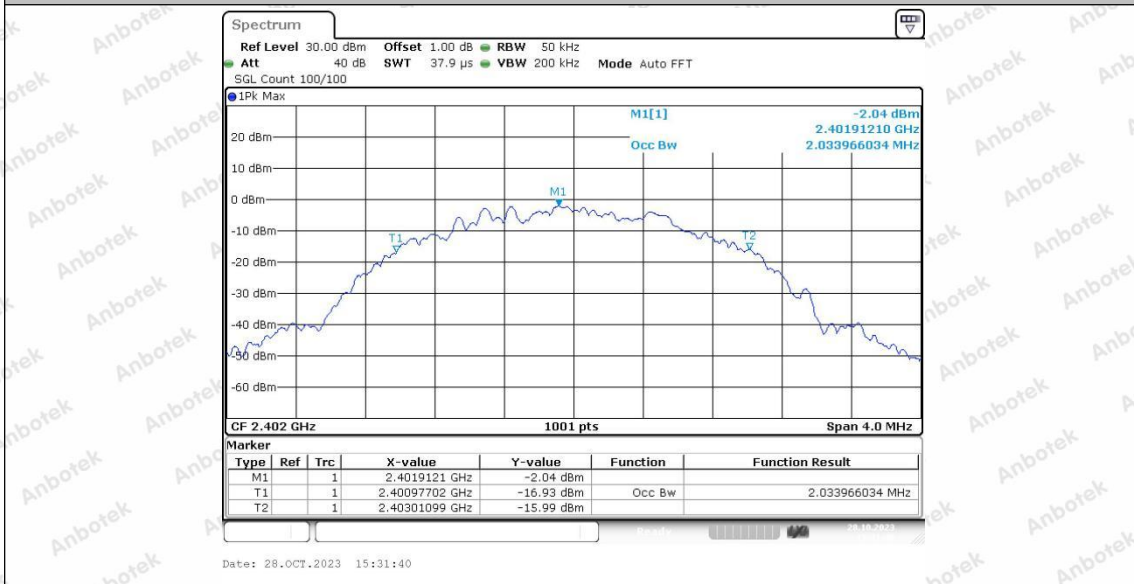


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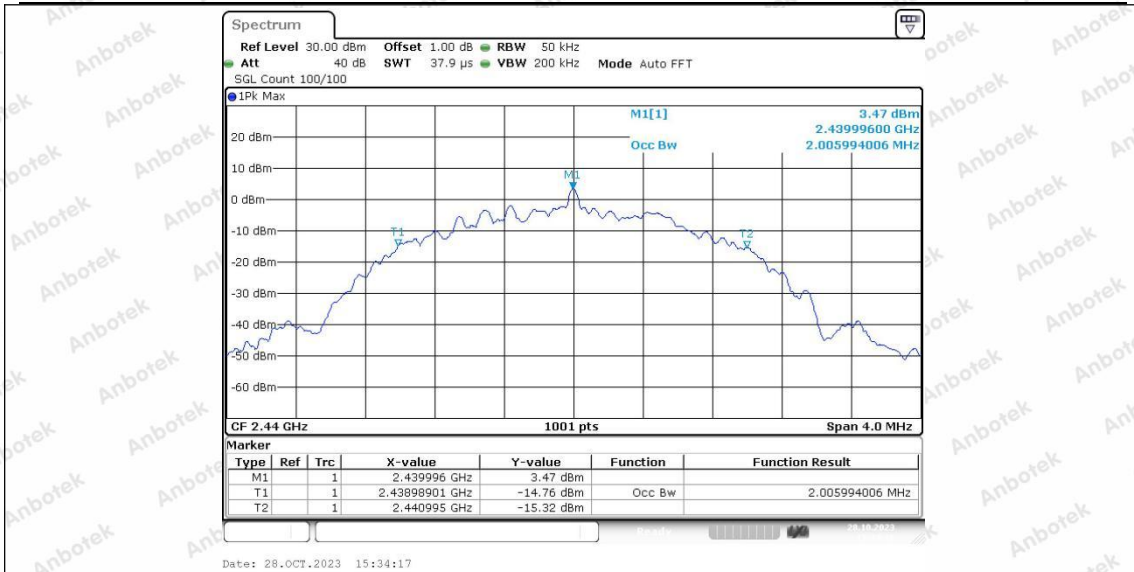


BLE_2M_Ant1_2402

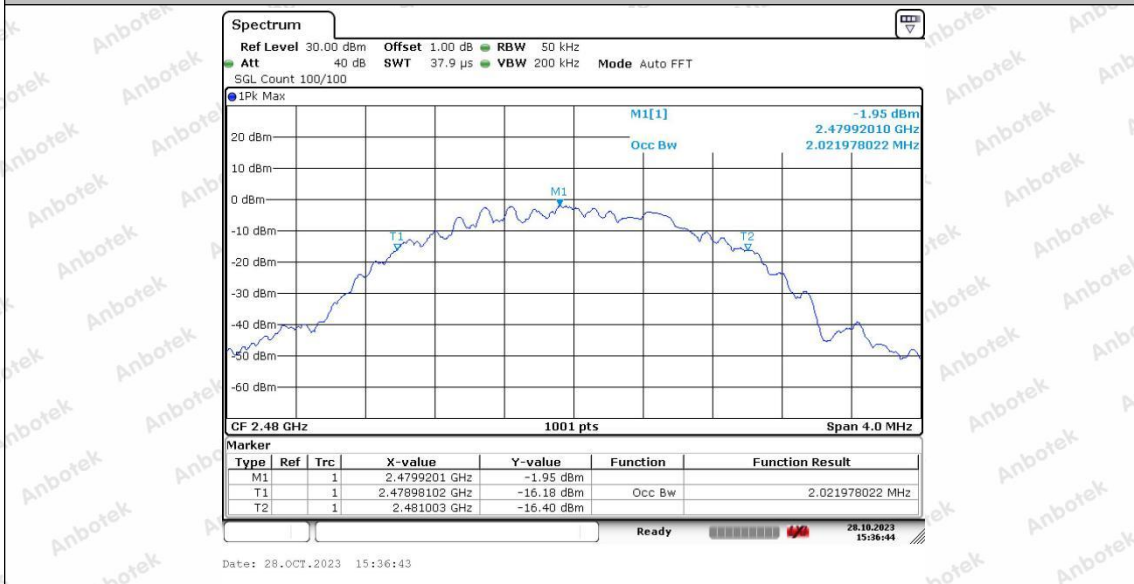


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.10	≤30	PASS
		2440	3.30	≤30	PASS
		2480	3.28	≤30	PASS
BLE_2M	Ant1	2402	4.23	≤30	PASS
		2440	4.54	≤30	PASS
		2480	4.48	≤30	PASS

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Test Graphs Peak

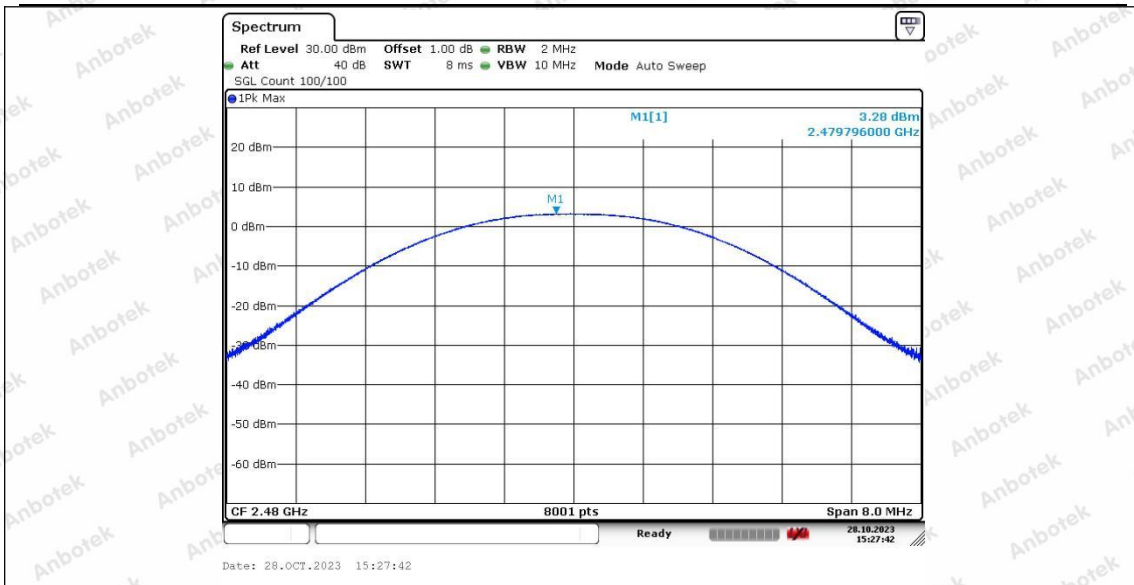


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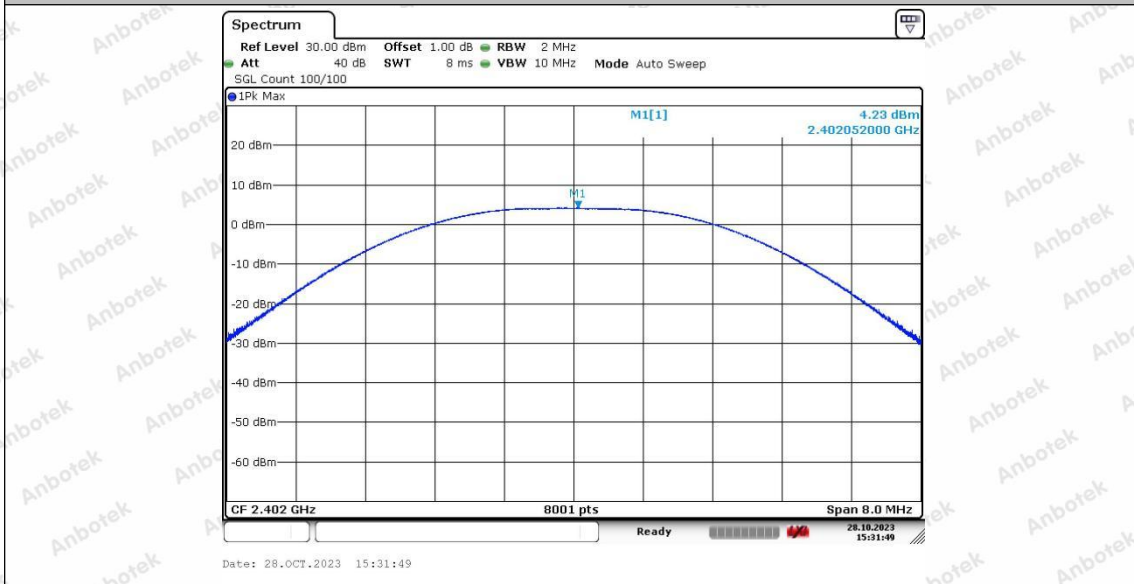
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BLE_2M_Ant1_2402



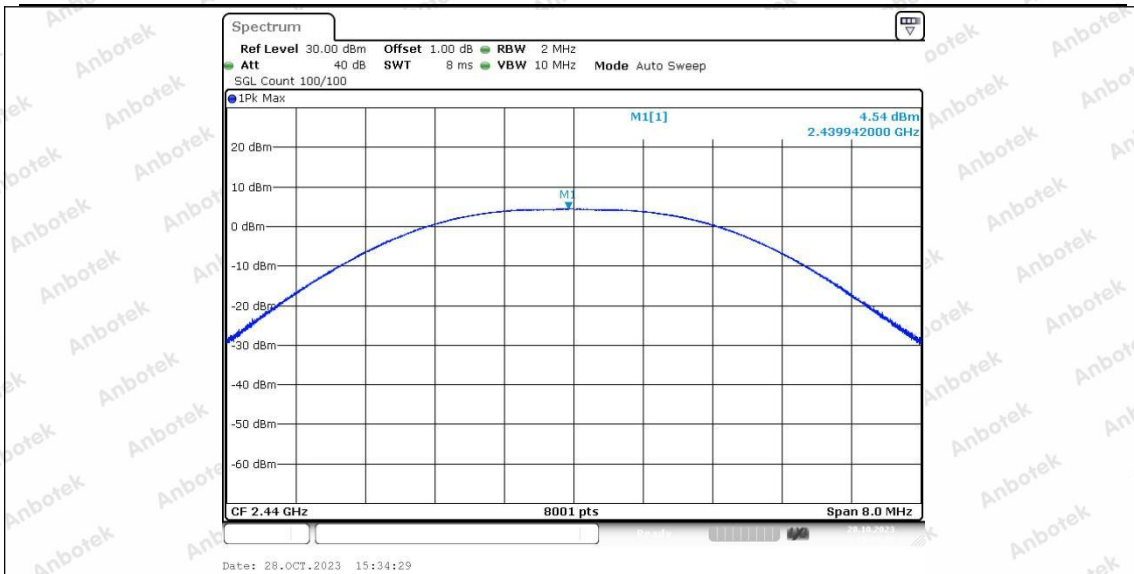
BLE_2M_Ant1_2440

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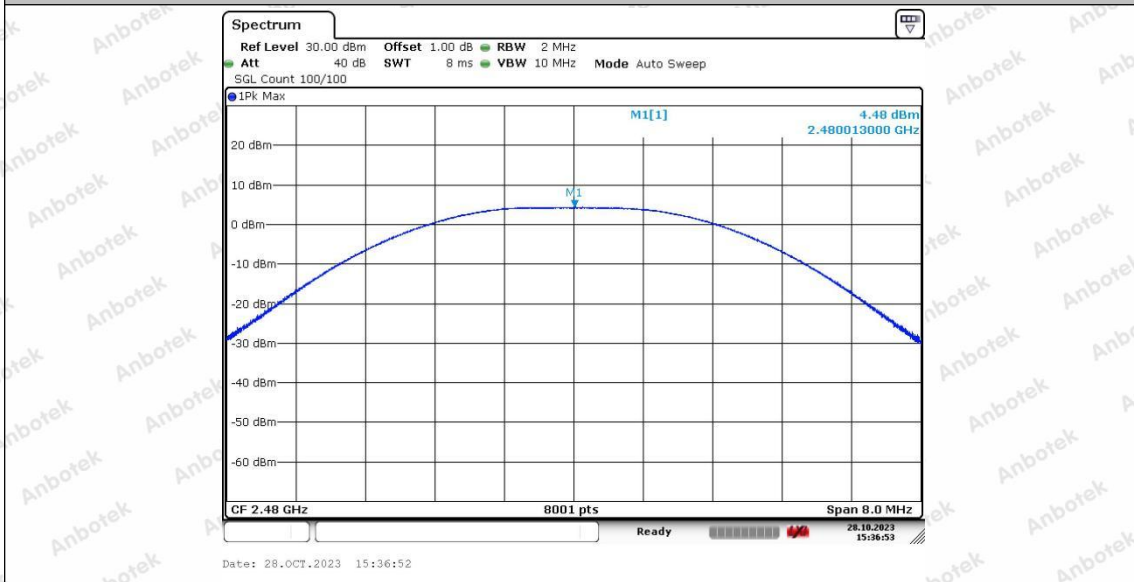
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BLE_2M_Ant1_2480



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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.72	≤8.00	PASS
		2440	-12.55	≤8.00	PASS
		2480	-12.48	≤8.00	PASS
BLE_2M	Ant1	2402	-13.45	≤8.00	PASS
		2440	-13.43	≤8.00	PASS
		2480	-13.17	≤8.00	PASS



Test Graphs

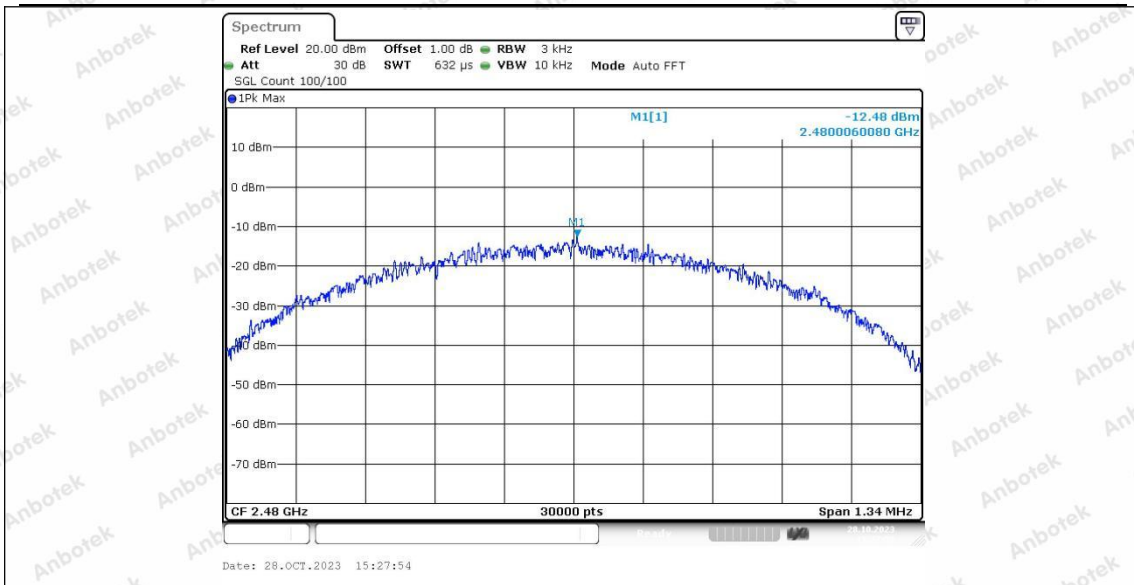


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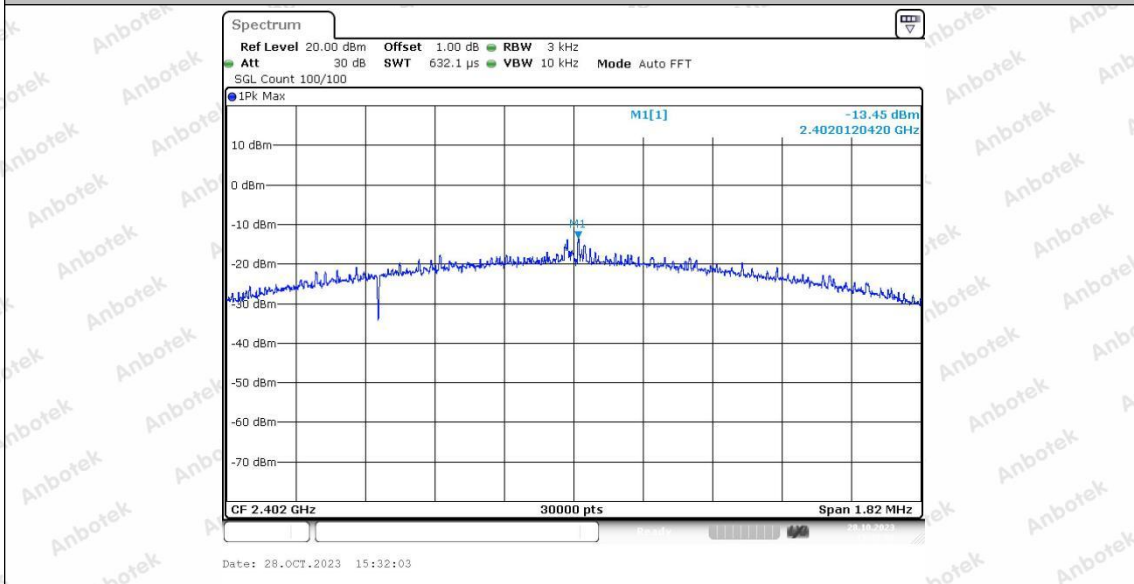
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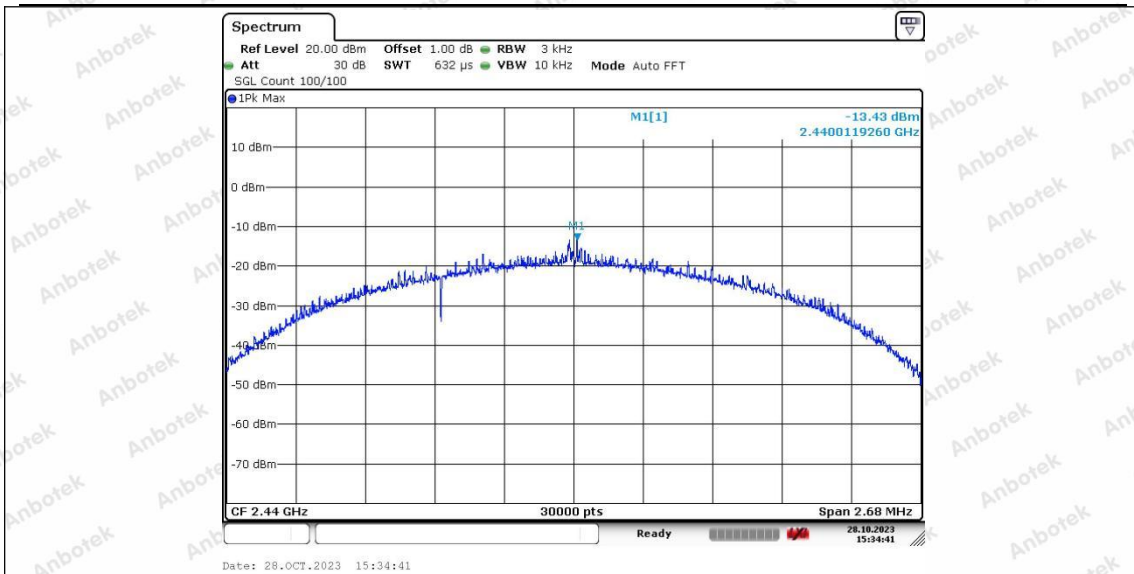


BLE_2M_Ant1_2402

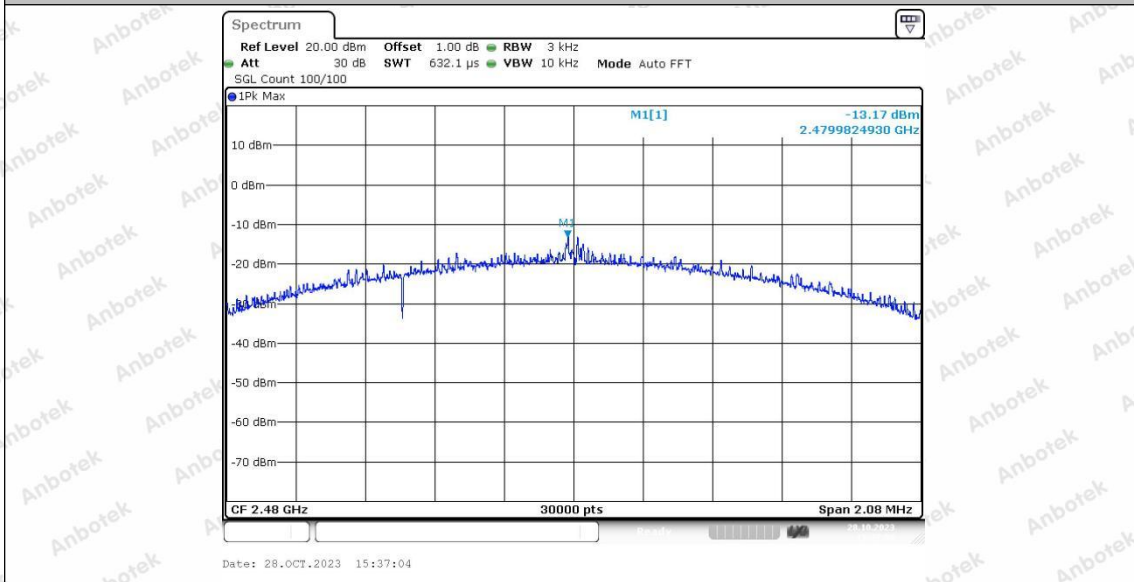


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.50	-50.85	≤-18.5	PASS
		High	2480	2.03	-54.24	≤-17.97	PASS
BLE_2M	Ant1	Low	2402	3.67	-46.63	≤-16.33	PASS
		High	2480	1.27	-55.74	≤-18.73	PASS

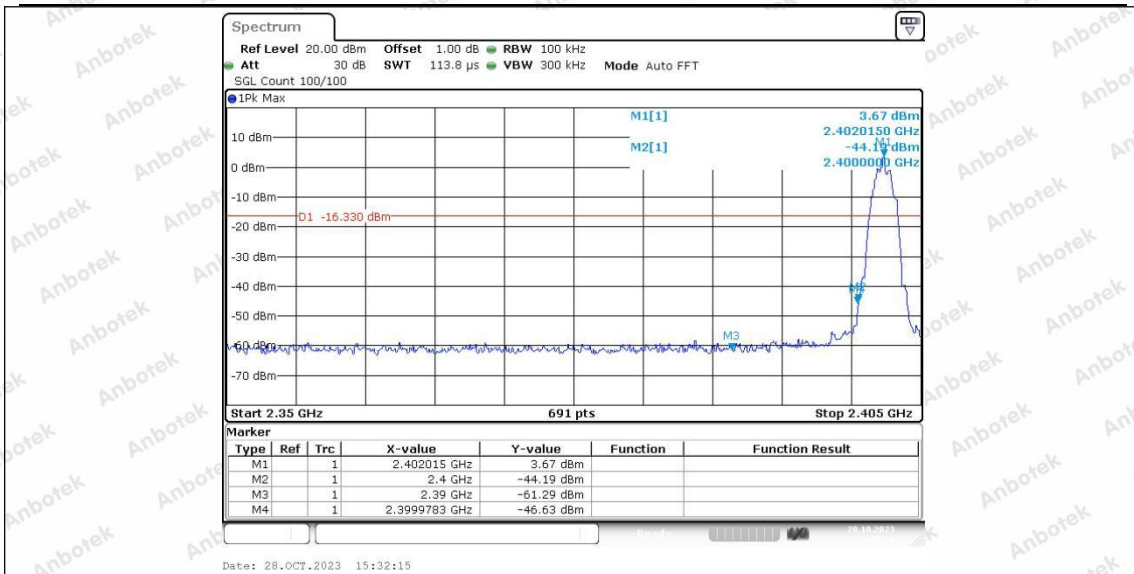


Test Graphs

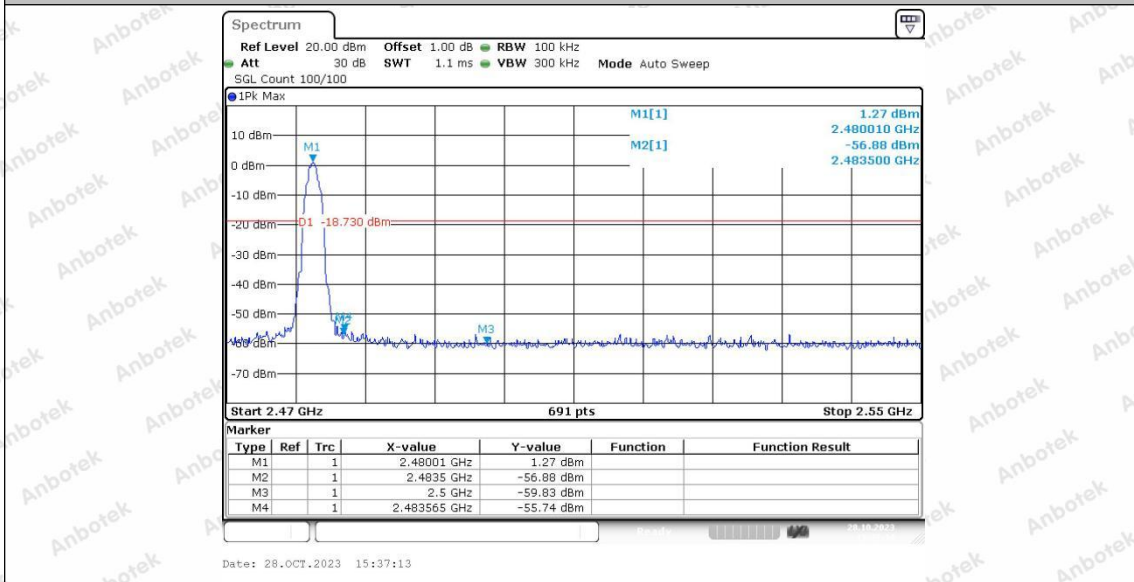


BLE_2M_Ant1_Low_2402





BLE_2M_Ant1_High_2480



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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	2.28	2.28	---	PASS
			30~1000	2.28	-68	≤-17.72	PASS
			1000~26500	2.28	-53.19	≤-17.72	PASS
		2440	Reference	0.95	0.95	---	PASS
			30~1000	0.95	-68.77	≤-19.05	PASS
			1000~26500	0.95	-54.94	≤-19.05	PASS
		2480	Reference	2.66	2.66	---	PASS
			30~1000	2.66	-68.41	≤-17.34	PASS
			1000~26500	2.66	-55.78	≤-17.34	PASS
BLE_2M	Ant1	2402	Reference	4.10	4.10	---	PASS
			30~1000	4.10	-67.96	≤-15.9	PASS
			1000~26500	4.10	-53.33	≤-15.9	PASS
		2440	Reference	4.31	4.31	---	PASS
			30~1000	4.31	-68.31	≤-15.69	PASS
			1000~26500	4.31	-55.34	≤-15.69	PASS
		2480	Reference	4.21	4.21	---	PASS
			30~1000	4.21	-67.84	≤-15.79	PASS
			1000~26500	4.21	-55.8	≤-15.79	PASS



Test Graphs

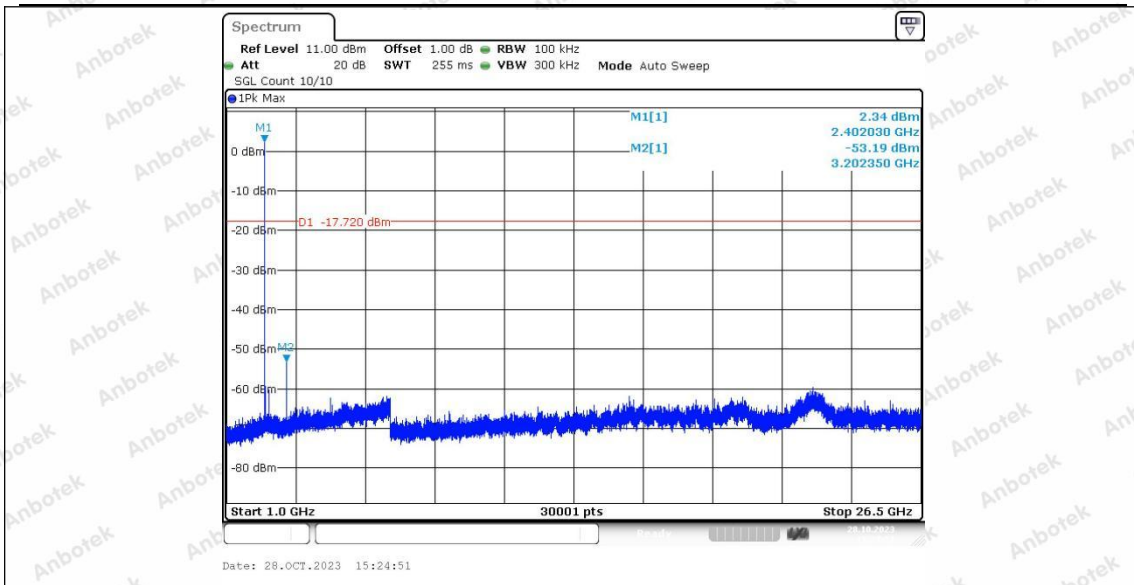


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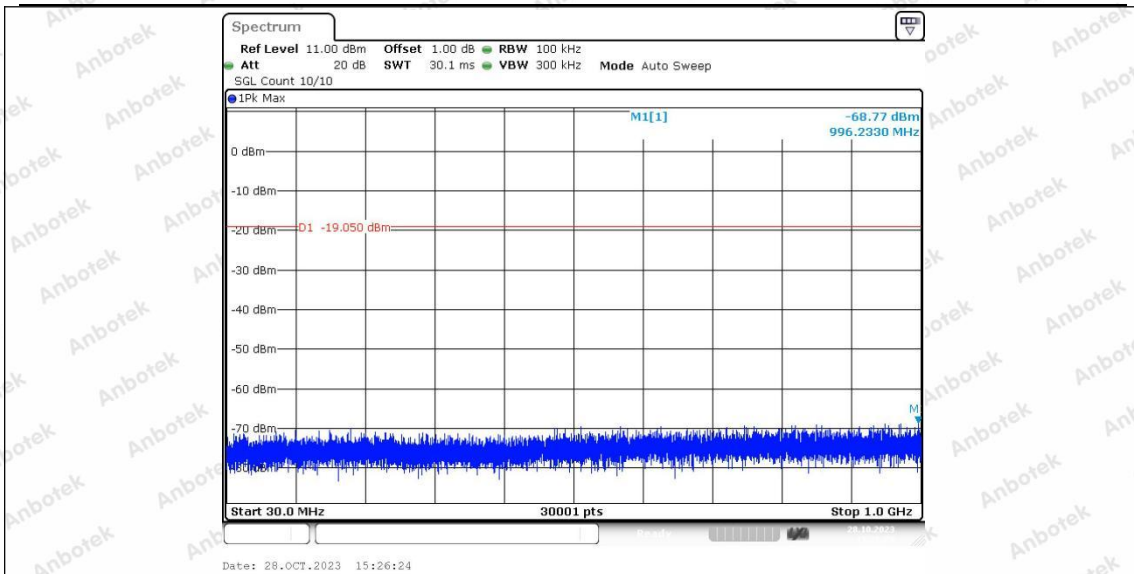


BLE_1M_Ant1_2440_0~Reference

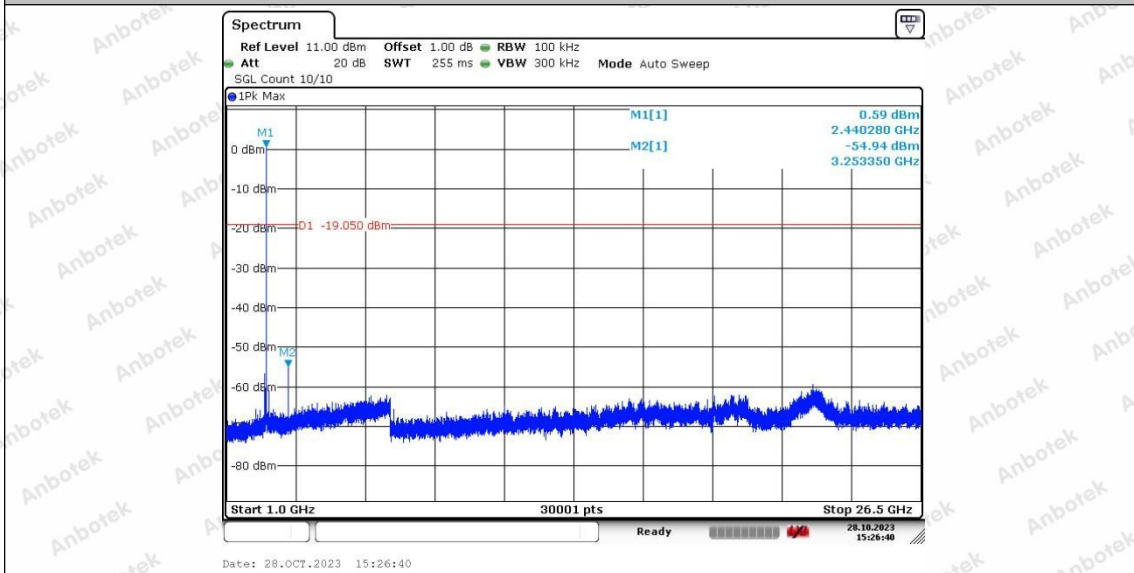


BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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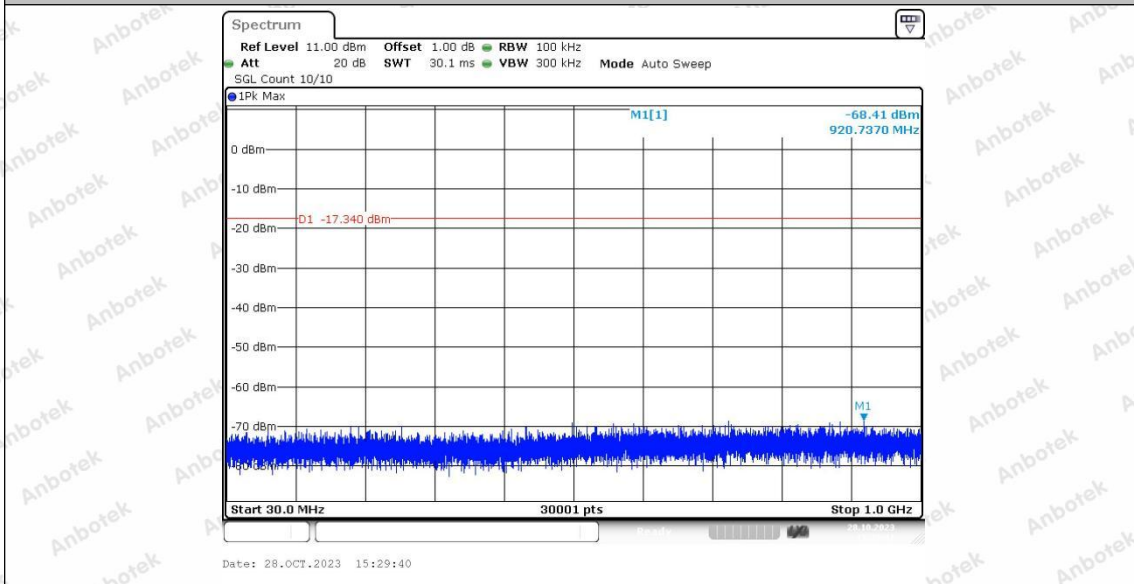
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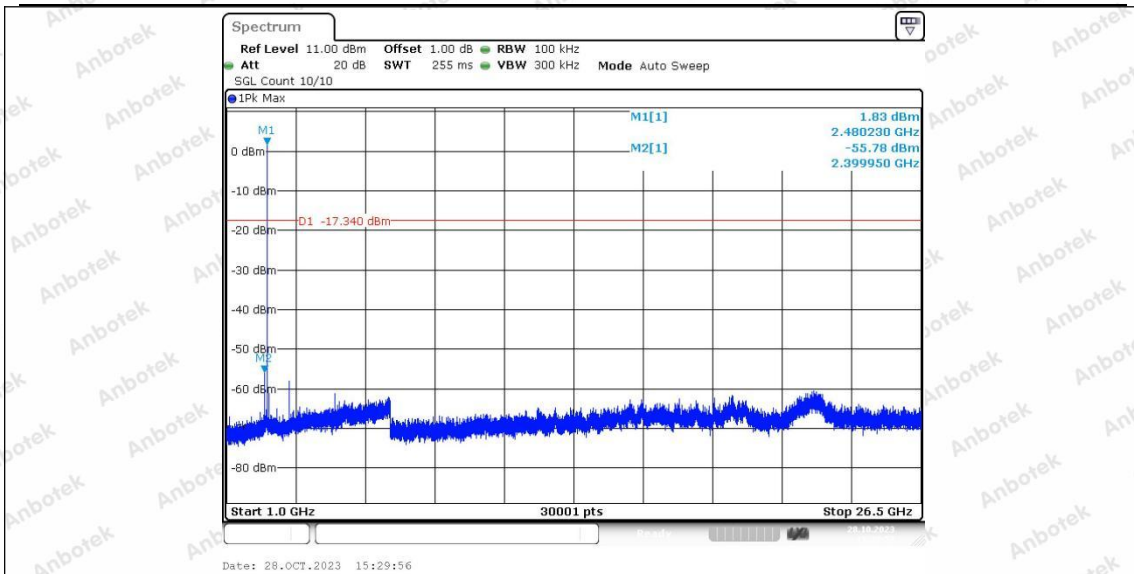


BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



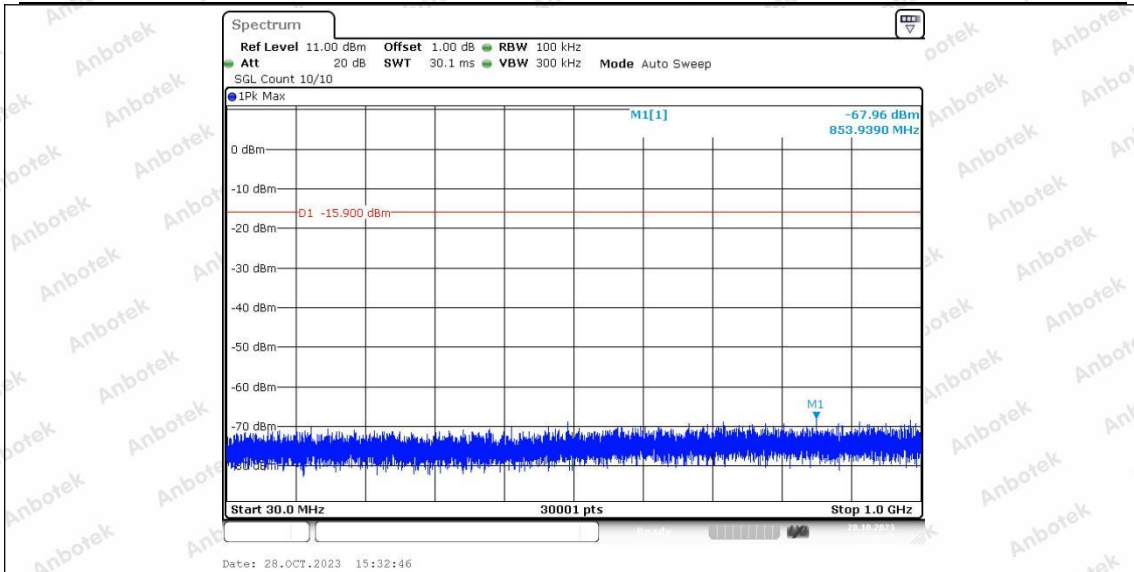


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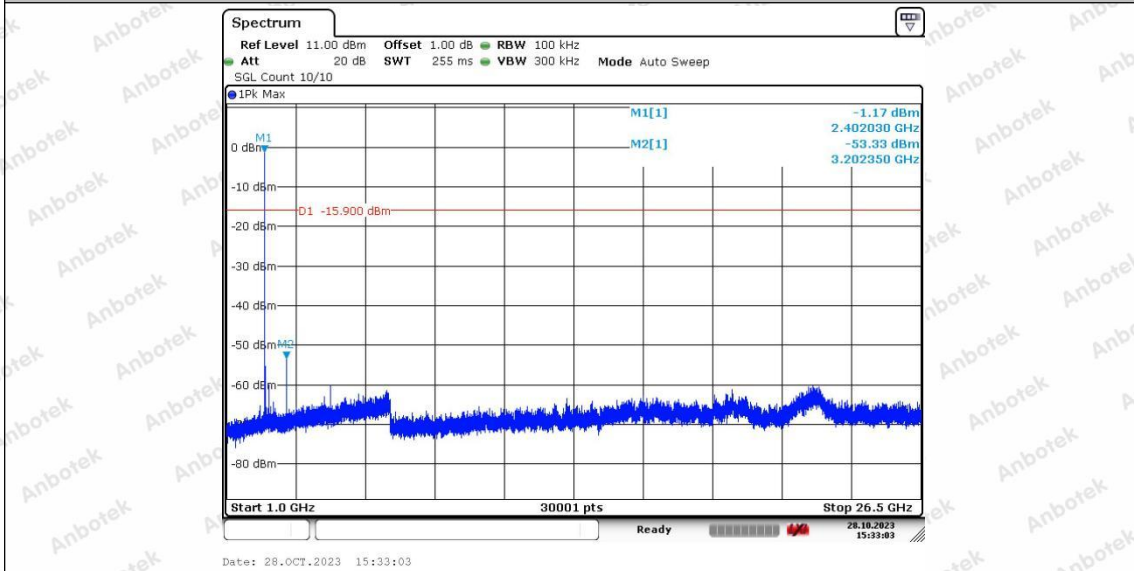


BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500



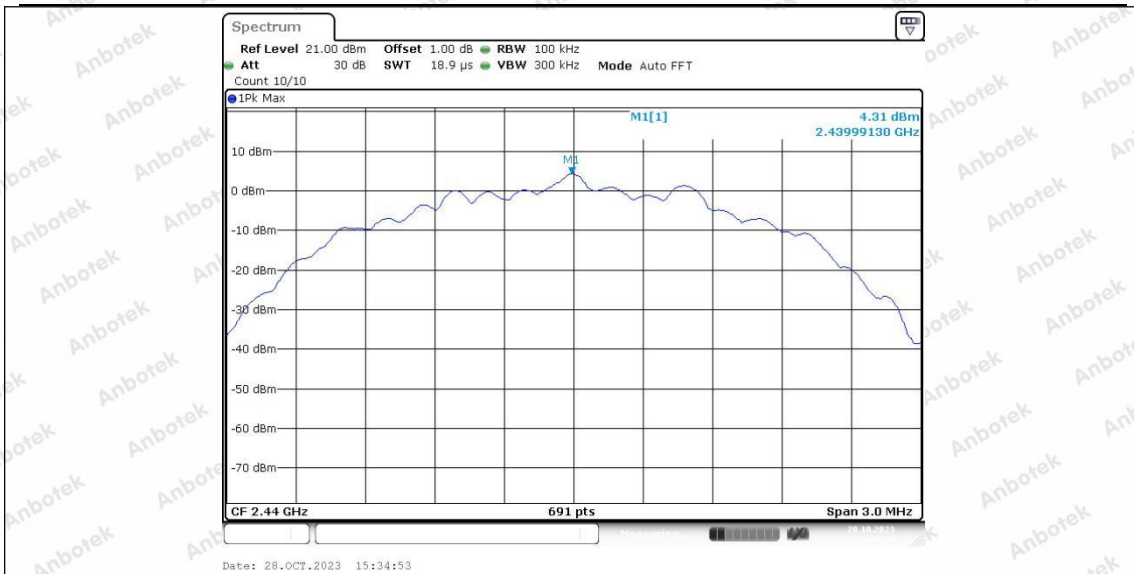
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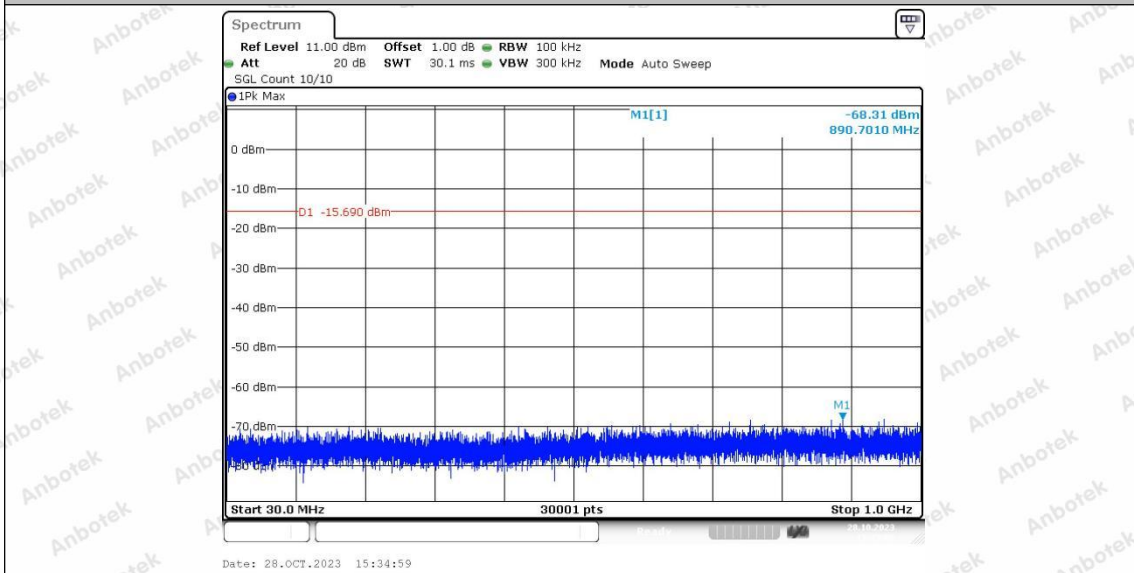
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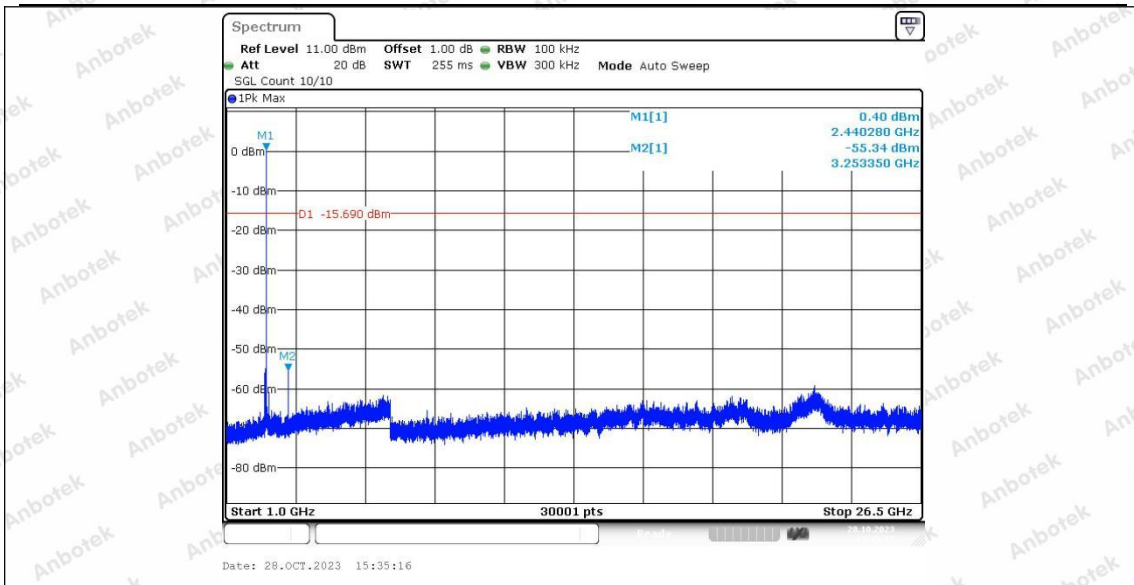


BLE_2M_Ant1_2440_30~1000

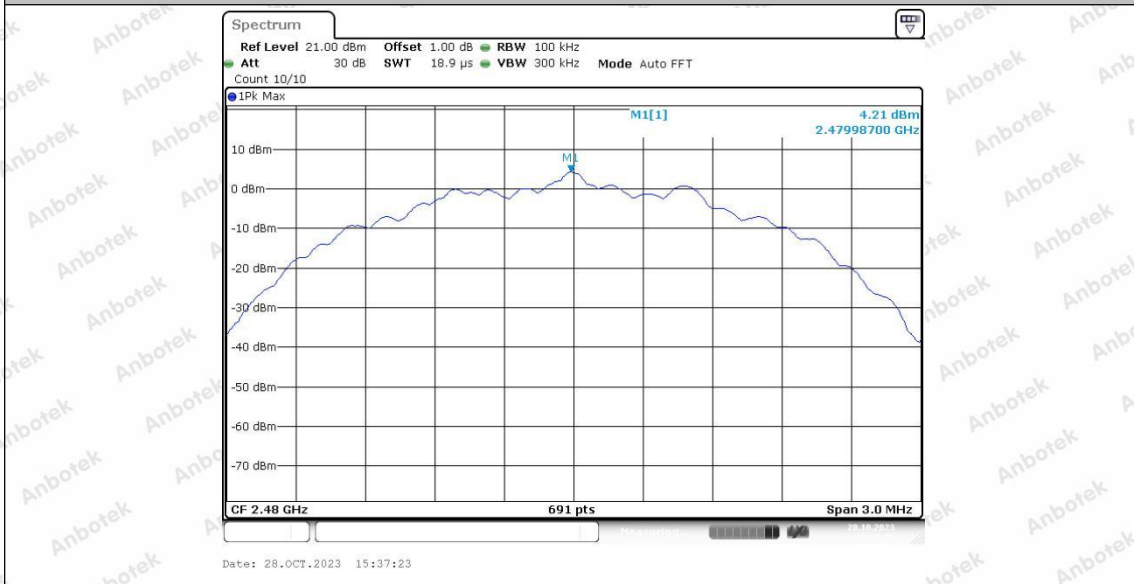


BLE_2M_Ant1_2440_1000~26500





BLE_2M_Ant1_2480_0~Reference



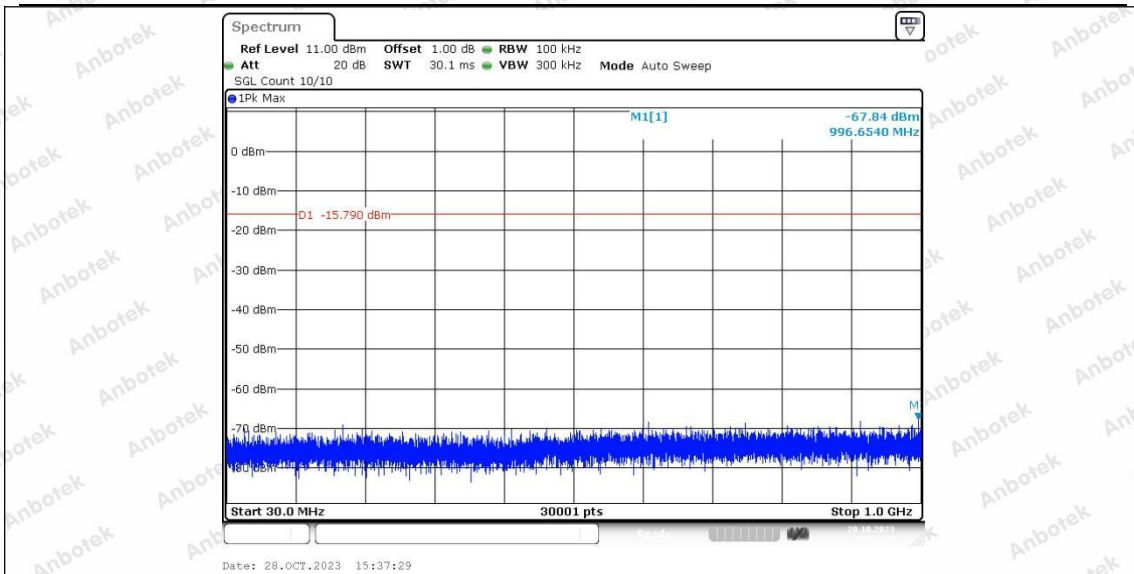
BLE_2M_Ant1_2480_30~1000

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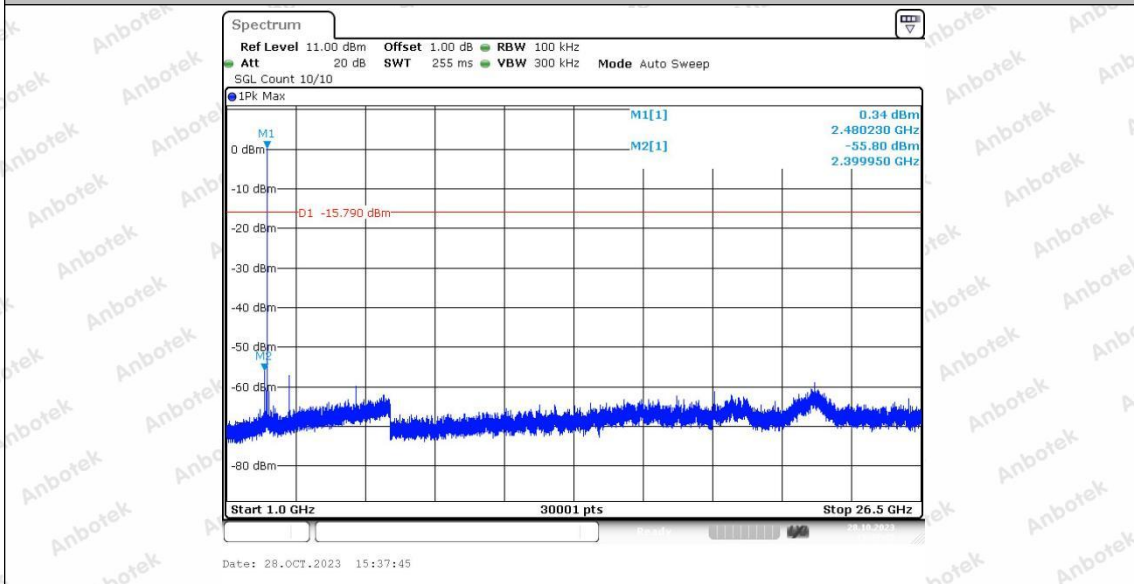
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BLE_2M_Ant1_2480_1000~26500



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Appendix G: Duty Cycle

Test Result

TestMode	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	2.10	2.50	84.00	0.76
BLE_2M	Ant1	2402	1.06	1.88	56.38	2.49
		2440	1.06	1.88	56.38	2.49
		2480	1.06	1.87	56.68	2.47

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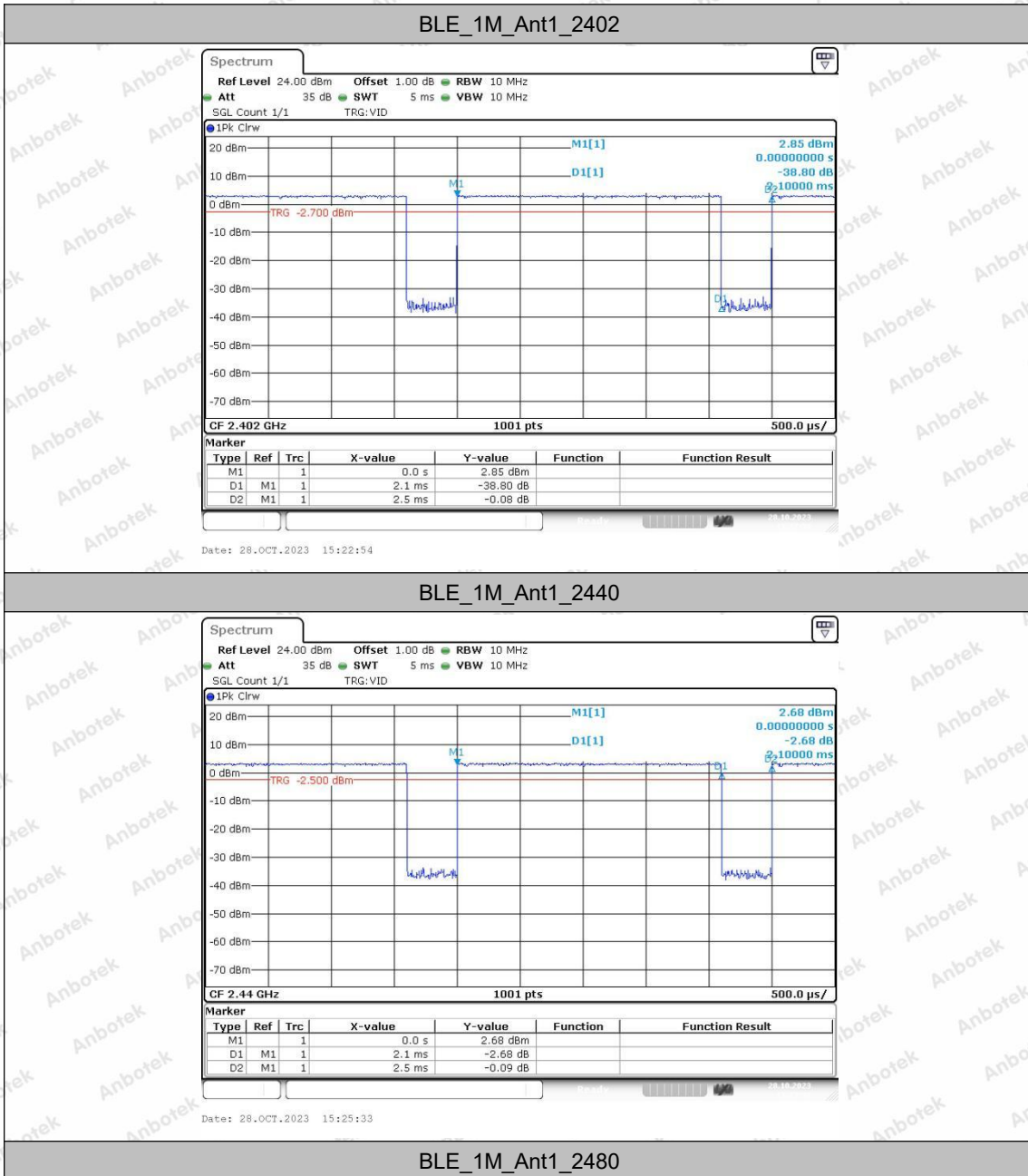
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

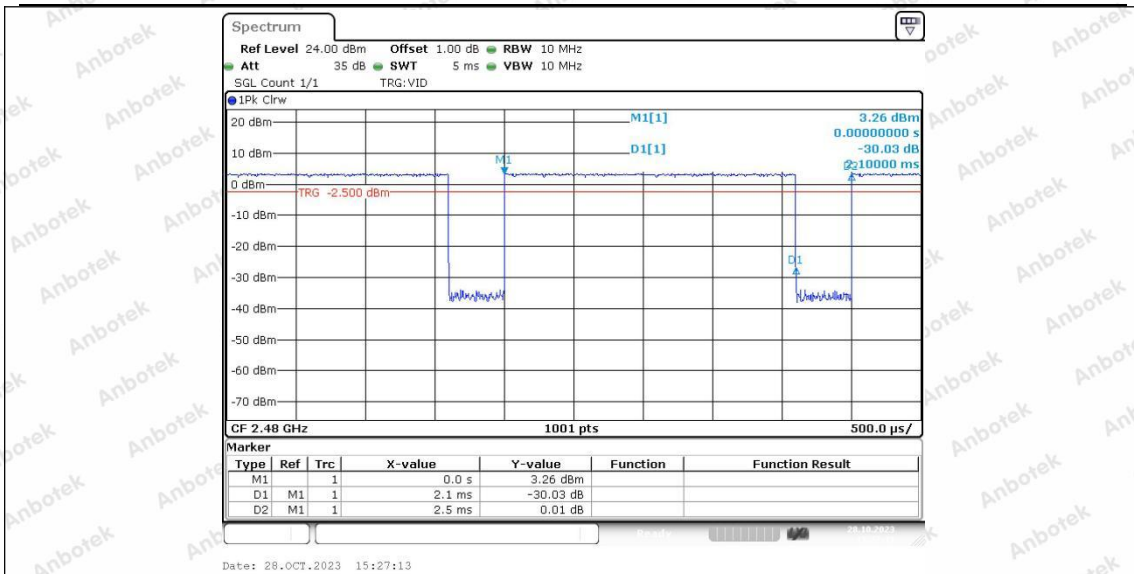


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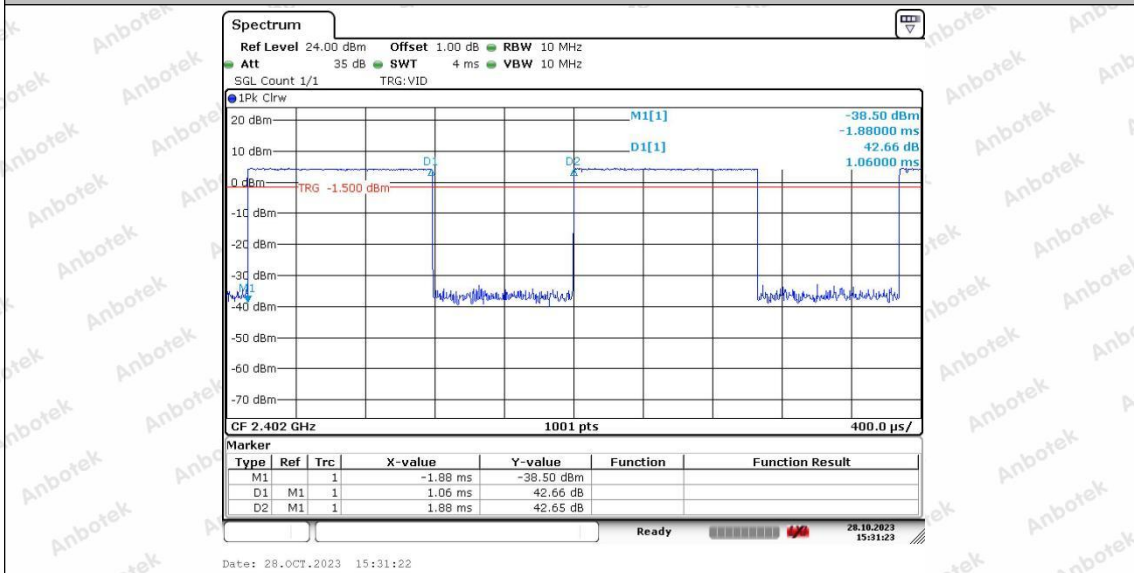


Test Graphs



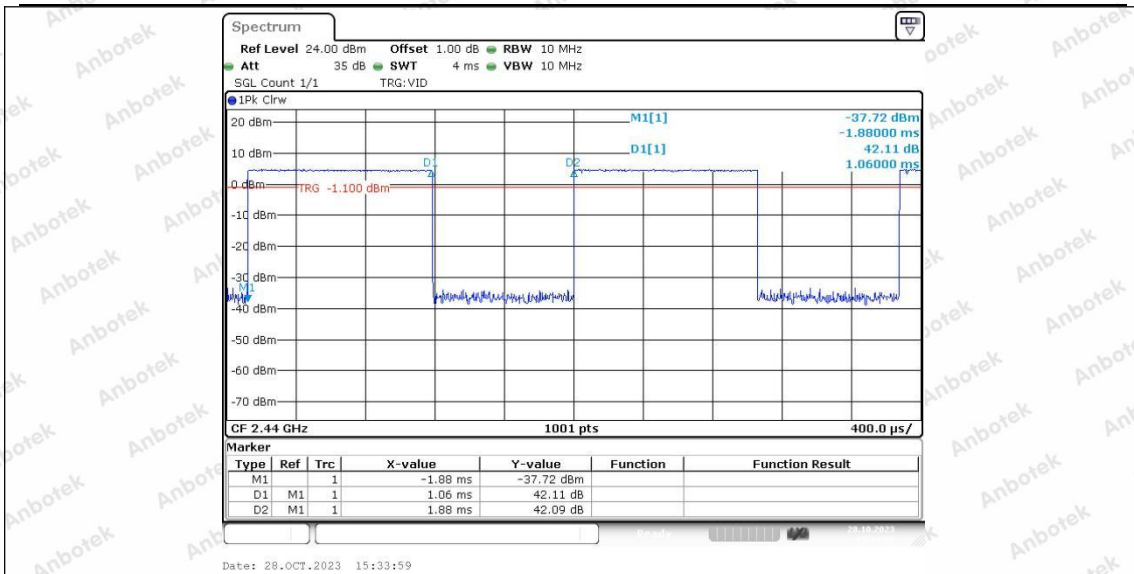


BLE_2M_Ant1_2402

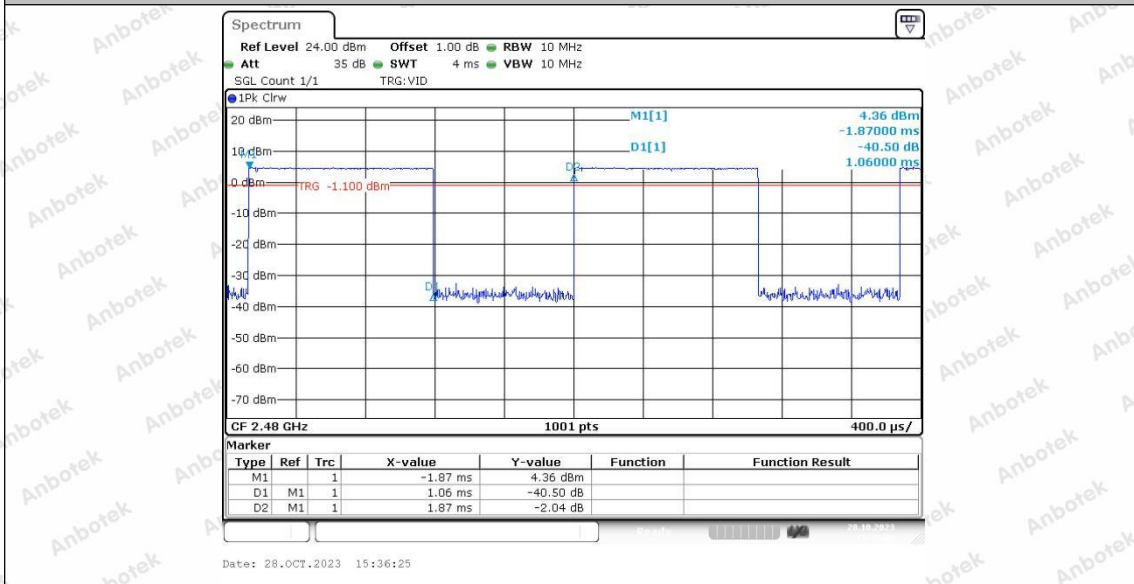


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



---End---

