

Appendix Test Data

Report No.:	18220WC30220701	Test Sample No.:	1-2-2
Start Test Date:	2023.10.24	Finish Test Date:	2023.10.27
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	26.1°C	Relative Humidity:	48.9%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

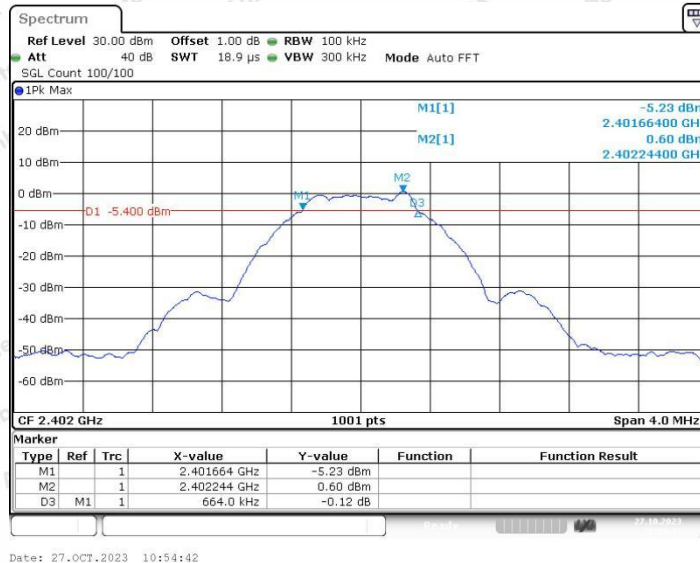
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.66	2401.66	2402.33	0.5	PASS
		2440	0.68	2439.65	2440.34	0.5	PASS
		2480	0.68	2479.64	2480.32	0.5	PASS
BLE_2M	Ant1	2402	1.11	2401.44	2402.55	0.5	PASS
		2440	1.34	2439.32	2440.66	0.5	PASS
		2480	1.00	2479.58	2480.58	0.5	PASS

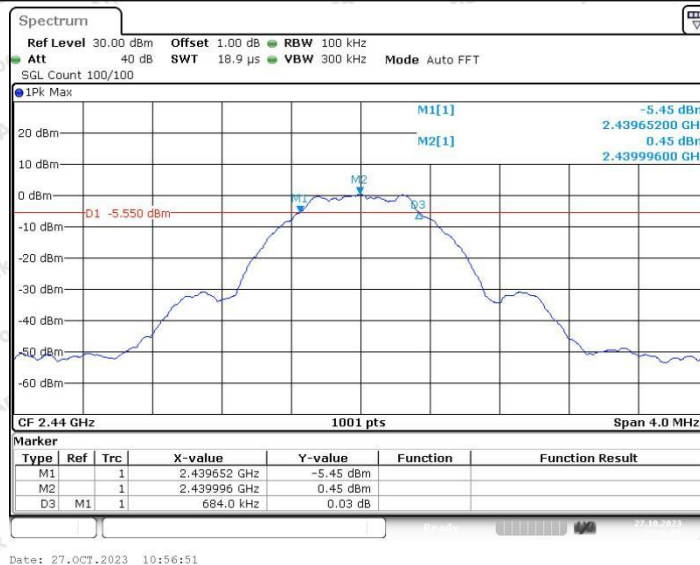


Test Graphs

BLE_1M_Ant1_2402

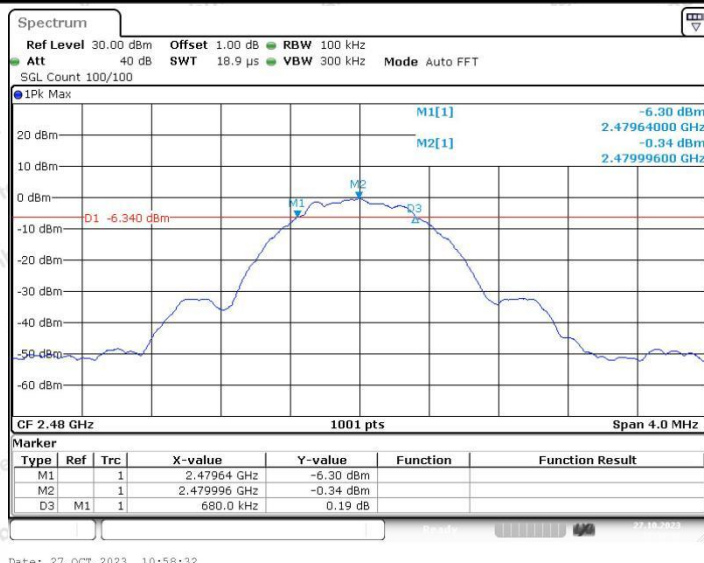


BLE_1M_Ant1_2440

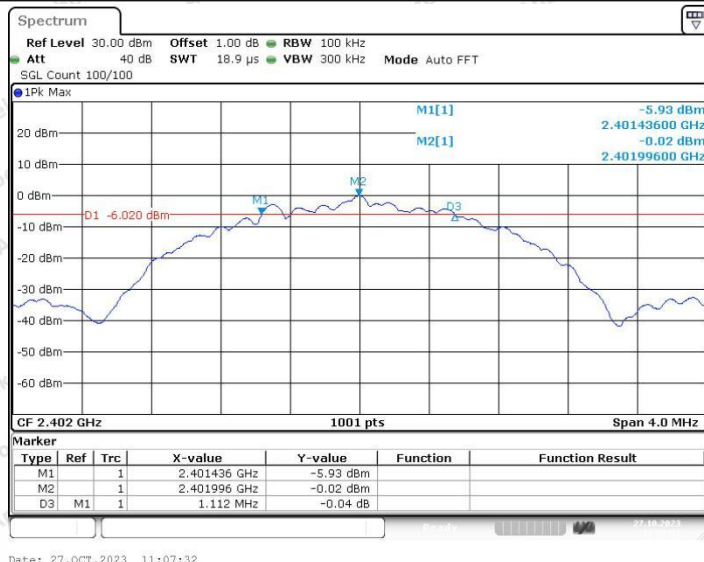


BLE_1M_Ant1_2480





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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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	1.031	2401.4805	2402.5115
		2440	1.031	2439.4845	2440.5155
		2480	1.023	2479.4845	2480.5075
BLE_2M	Ant1	2402	2.074	2400.9650	2403.0390
		2440	2.062	2438.9770	2441.0390
		2480	2.046	2478.9890	2481.0350

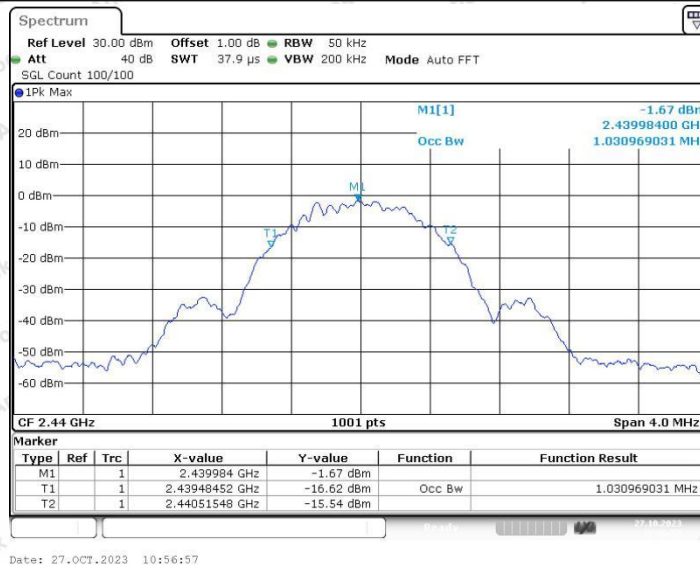


Test Graphs

BLE_1M_Ant1_2402

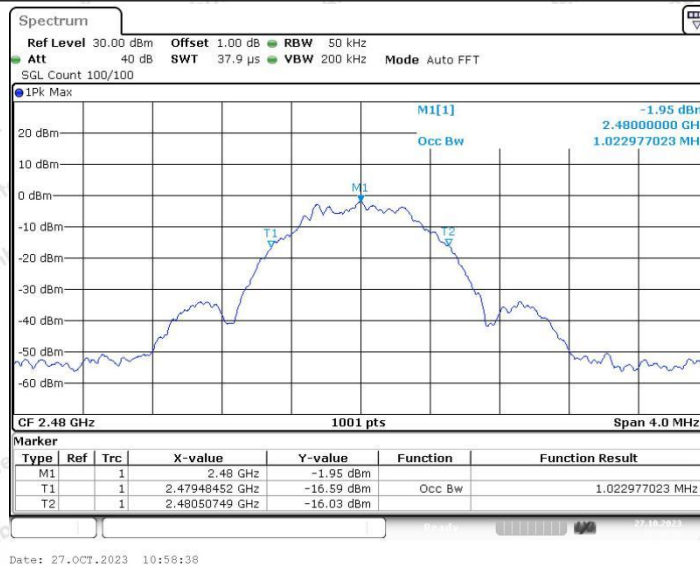


BLE_1M_Ant1_2440

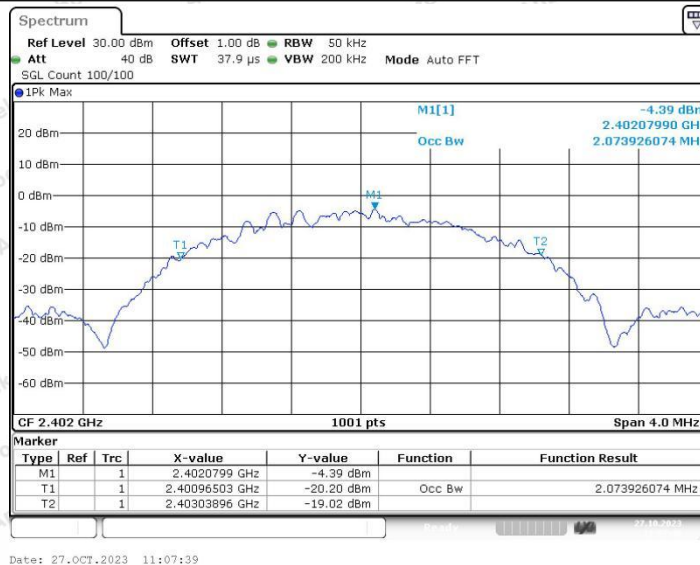


BLE_1M_Ant1_2480





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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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	1.70	≤30	PASS
		2440	1.88	≤30	PASS
		2480	1.09	≤30	PASS
BLE_2M	Ant1	2402	1.47	≤30	PASS
		2440	1.64	≤30	PASS
		2480	0.88	≤30	PASS



Test Graphs Peak



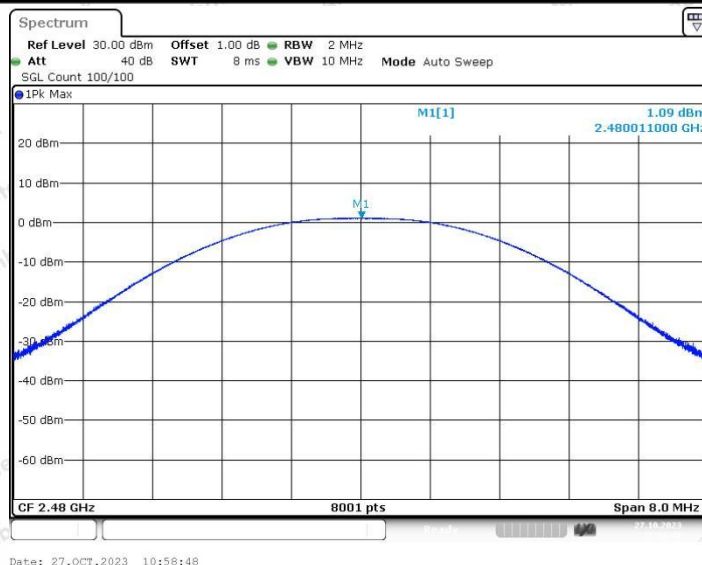
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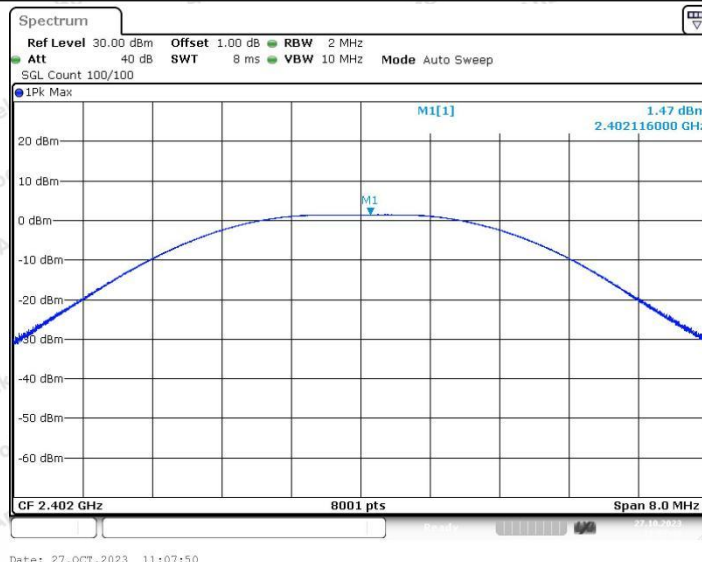


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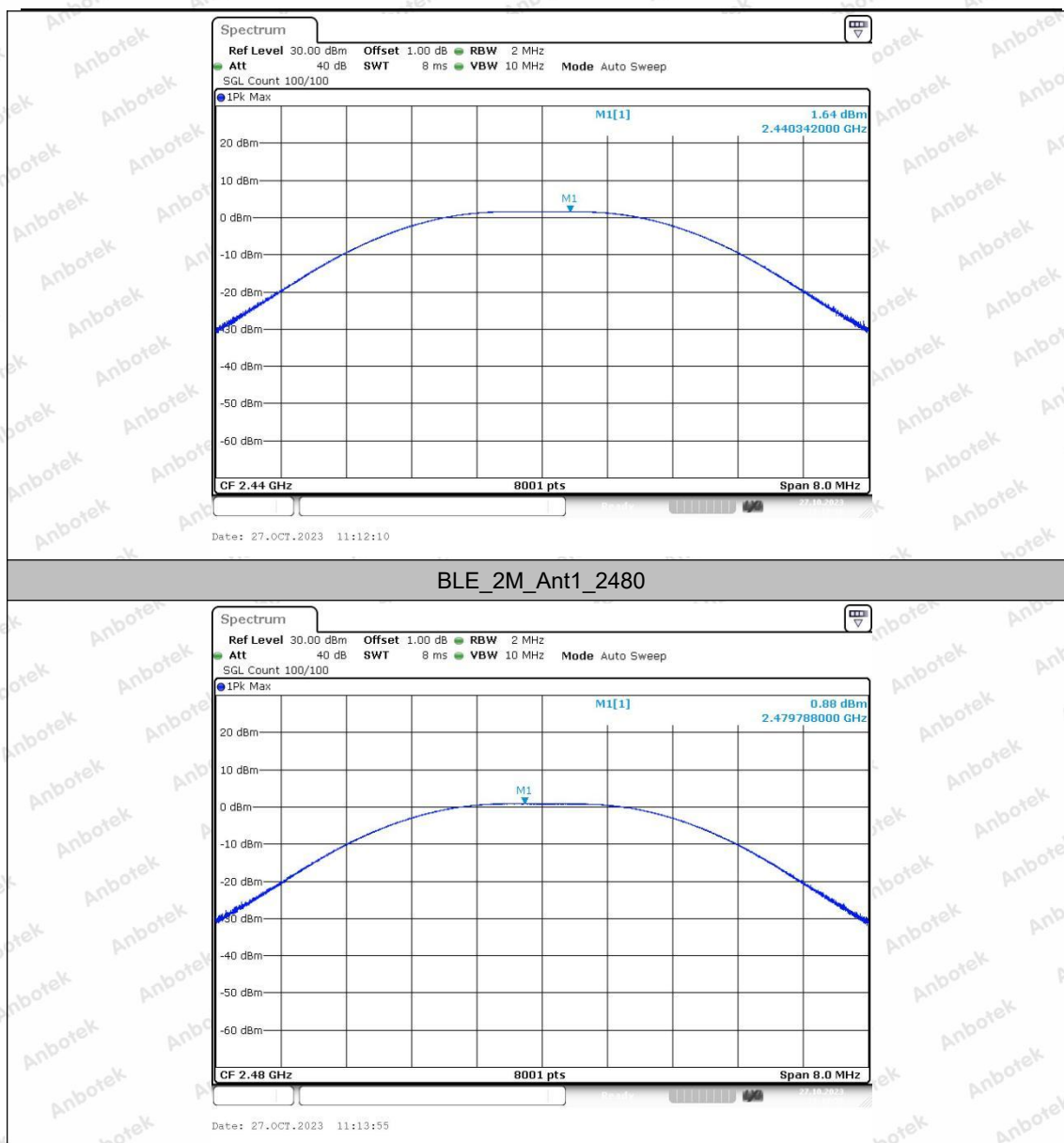


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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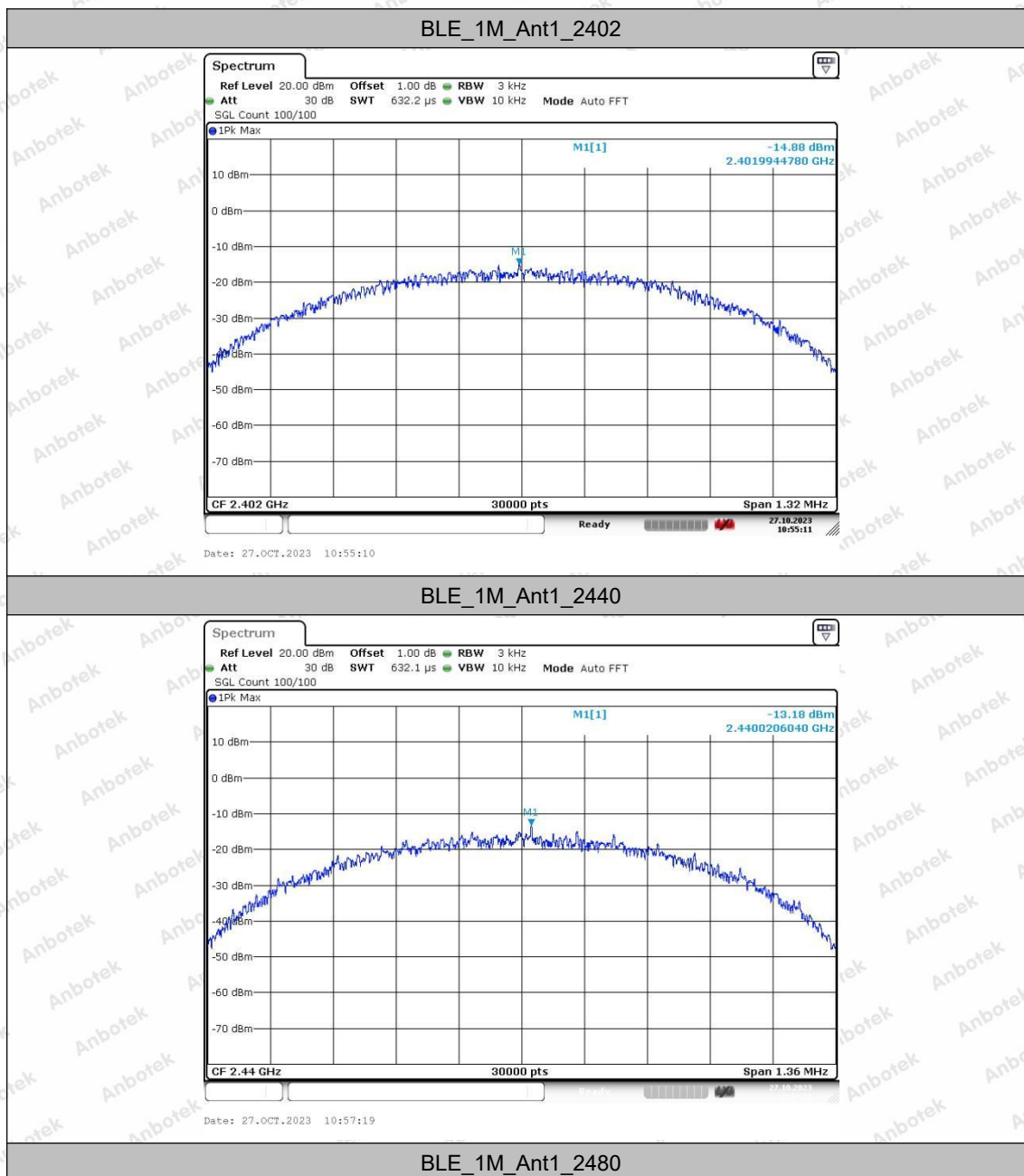
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.88	≤8.00	PASS
		2440	-13.18	≤8.00	PASS
		2480	-13.85	≤8.00	PASS
BLE_2M	Ant1	2402	-16.87	≤8.00	PASS
		2440	-16.74	≤8.00	PASS
		2480	-17.38	≤8.00	PASS



Test Graphs



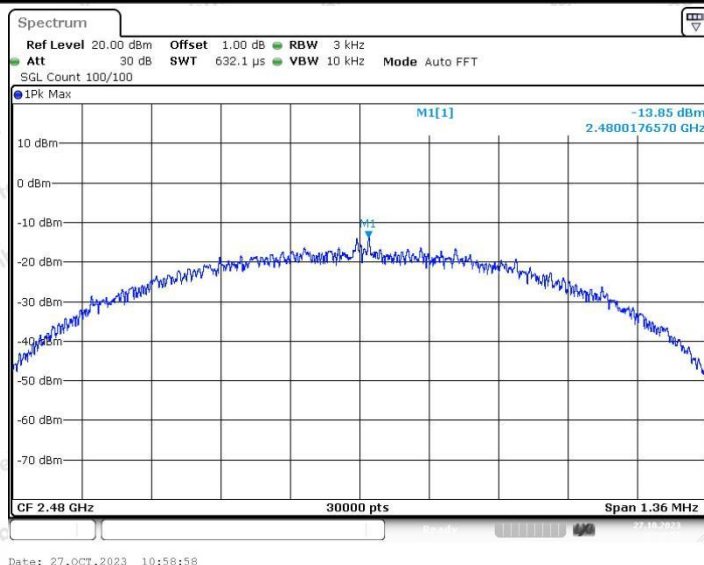
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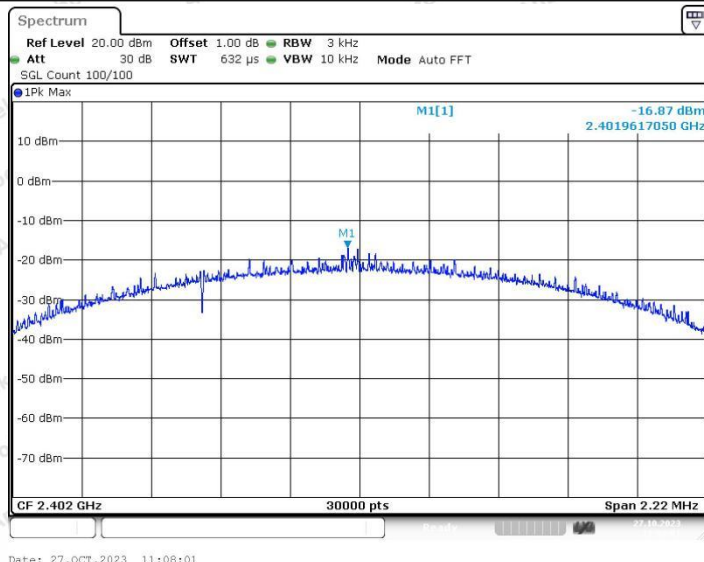


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

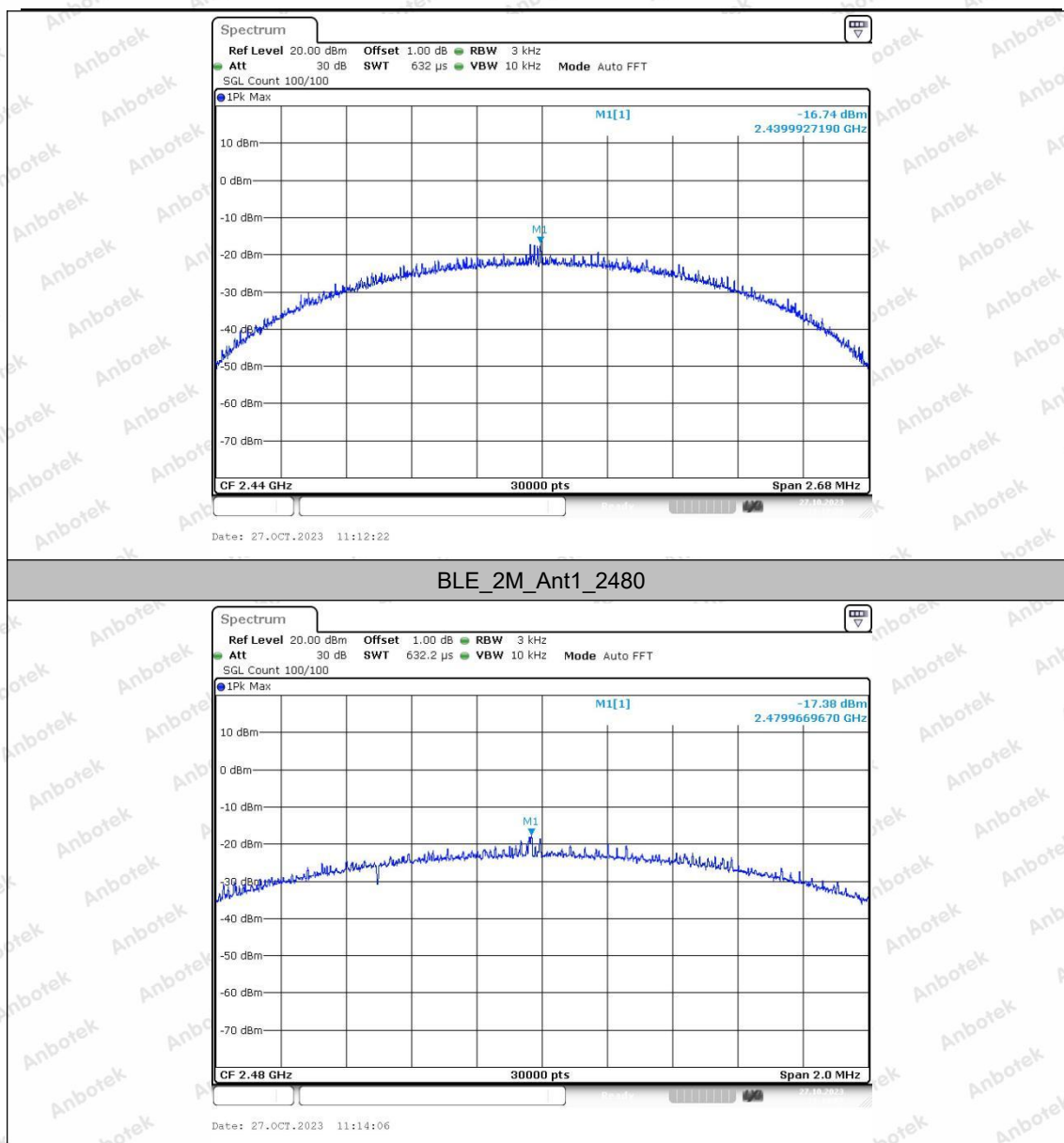
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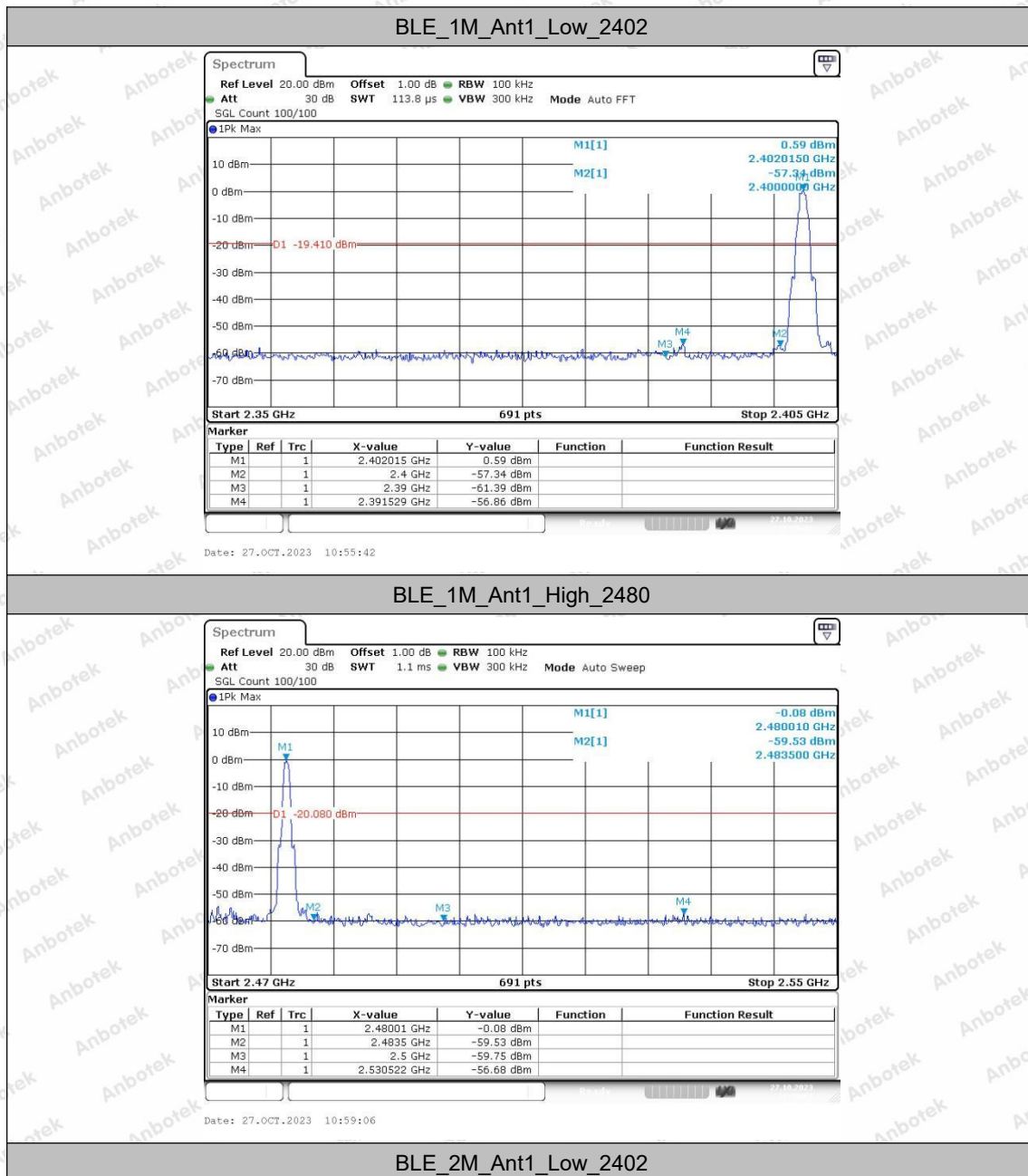
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.59	-56.86	≤-19.41	PASS
		High	2480	-0.08	-56.68	≤-20.08	PASS
BLE_2M	Ant1	Low	2402	-1.63	-35.1	≤-21.63	PASS
		High	2480	-2.99	-56.32	≤-22.99	PASS



Test Graphs



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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	-1.47	-1.47	---	PASS
			30~1000	-1.47	-62.04	≤-21.47	PASS
			1000~26500	-1.47	-60.46	≤-21.47	PASS
		2440	Reference	-0.19	-0.19	---	PASS
			30~1000	-0.19	-61.38	≤-20.19	PASS
			1000~26500	-0.19	-60.46	≤-20.19	PASS
		2480	Reference	-2.03	-2.03	---	PASS
			30~1000	-2.03	-62.01	≤-22.03	PASS
			1000~26500	-2.03	-59.51	≤-22.03	PASS
BLE_2M	Ant1	2402	Reference	0.27	0.27	---	PASS
			30~1000	0.27	-61.97	≤-19.73	PASS
			1000~26500	0.27	-60.28	≤-19.73	PASS
		2440	Reference	0.46	0.46	---	PASS
			30~1000	0.46	-61.76	≤-19.54	PASS
			1000~26500	0.46	-59.55	≤-19.54	PASS
		2480	Reference	-0.17	-0.17	---	PASS
			30~1000	-0.17	-62.71	≤-20.17	PASS
			1000~26500	-0.17	-59.62	≤-20.17	PASS

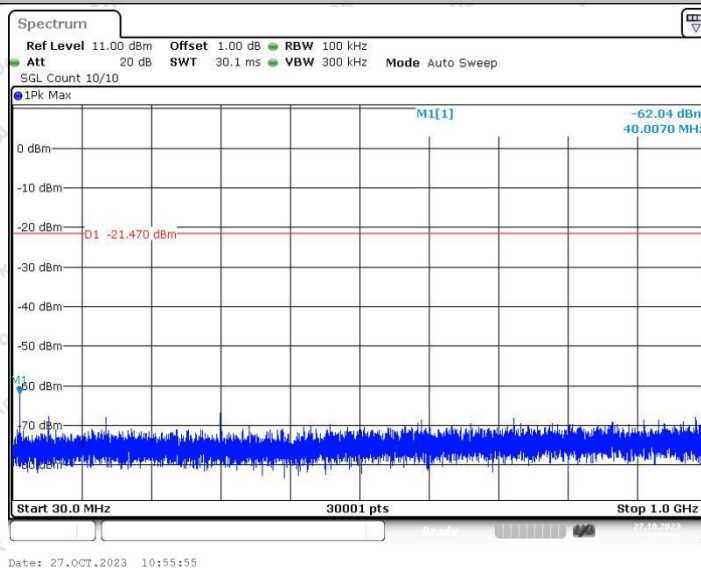


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

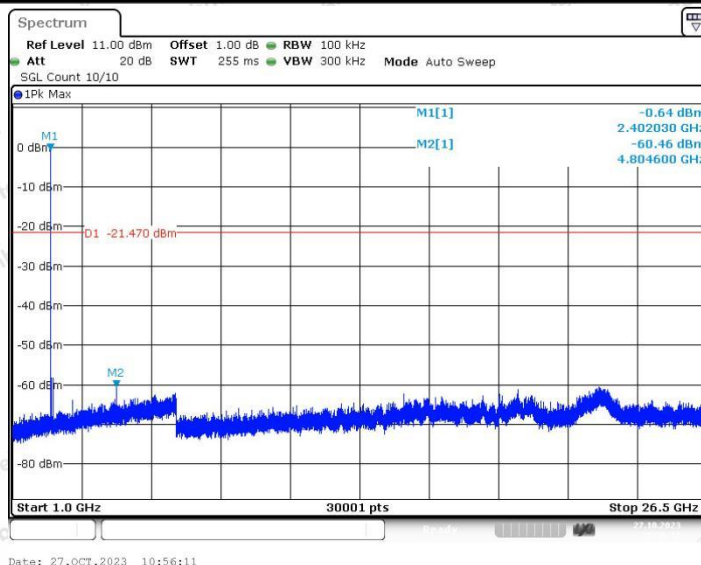
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

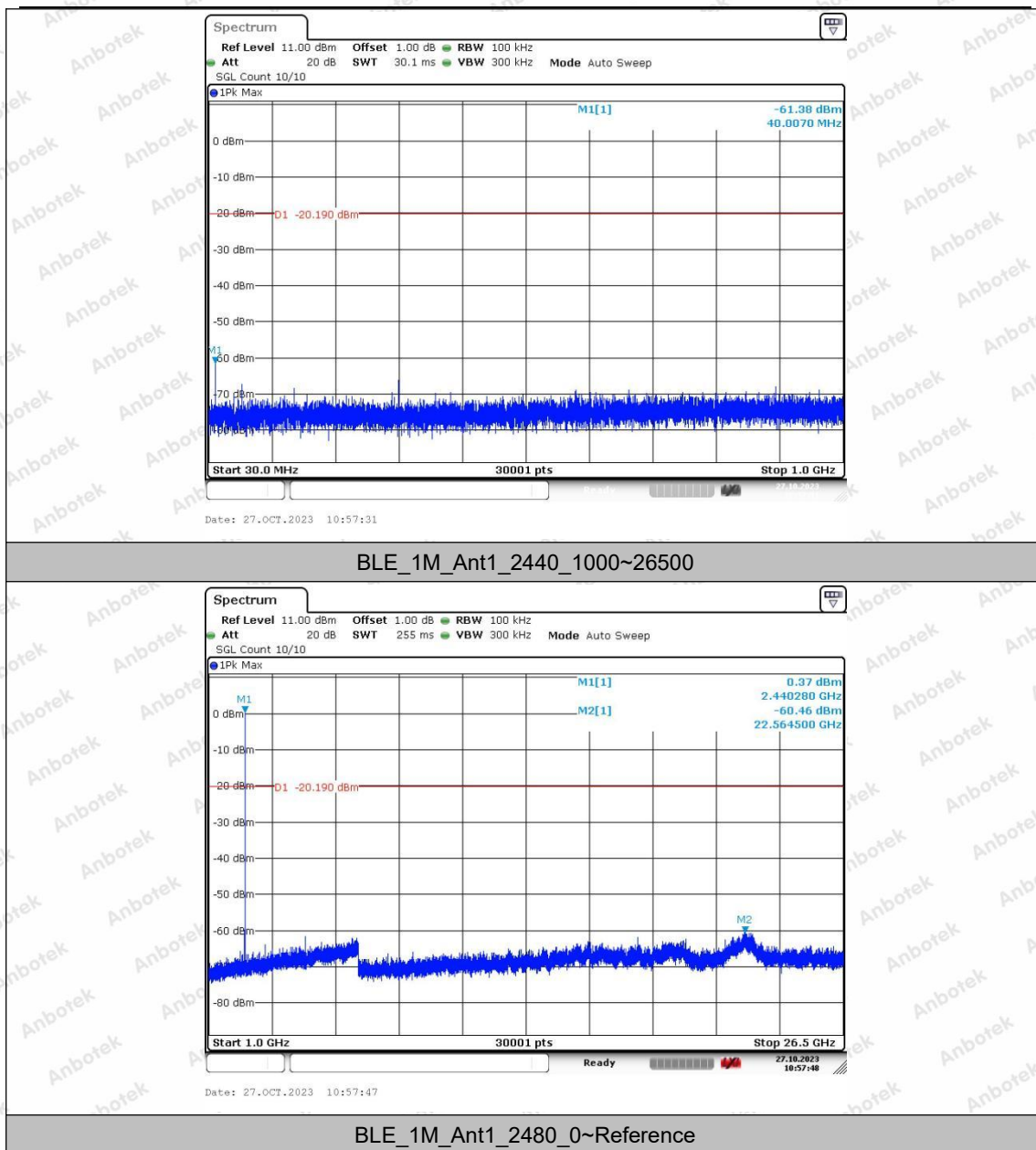
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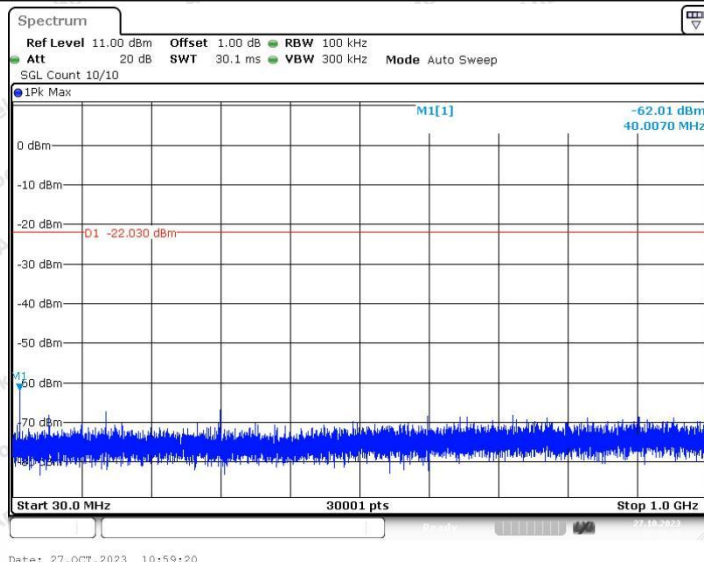
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

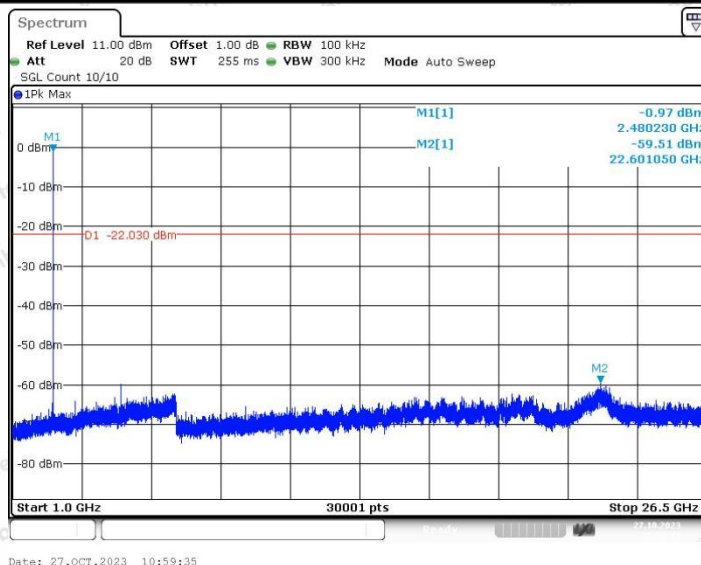
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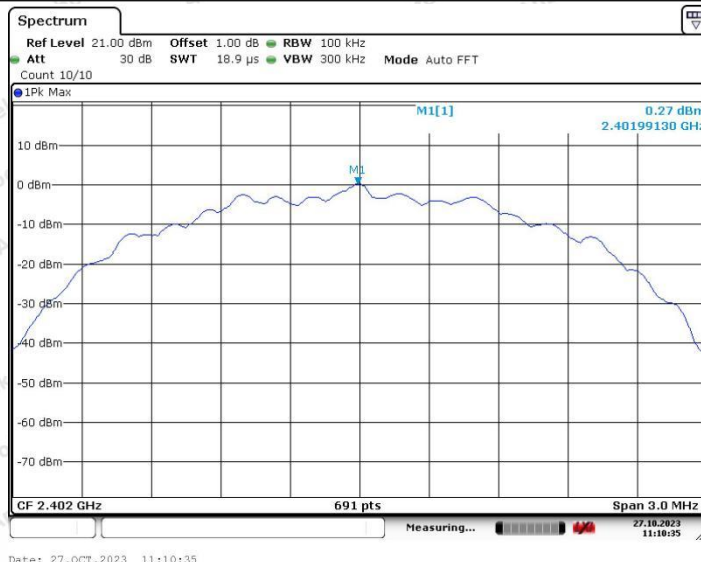


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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

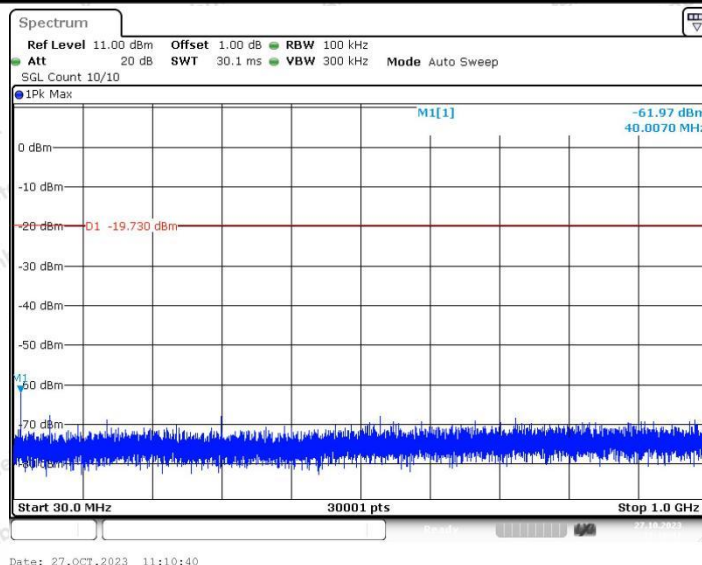
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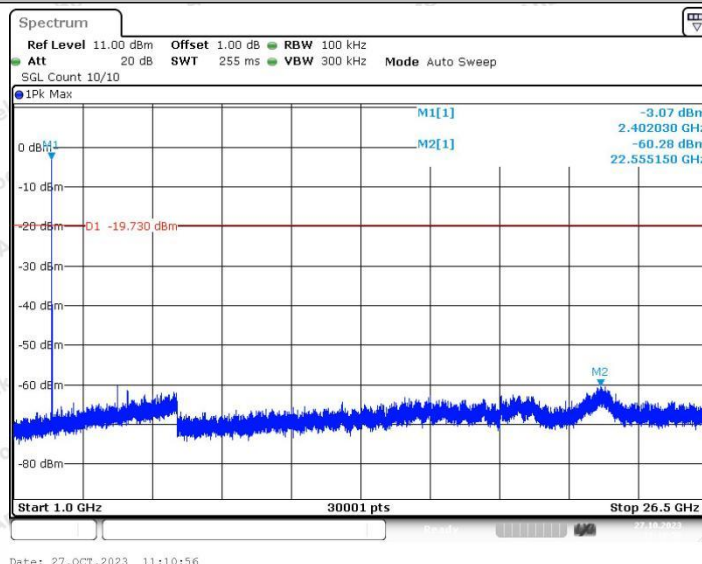


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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

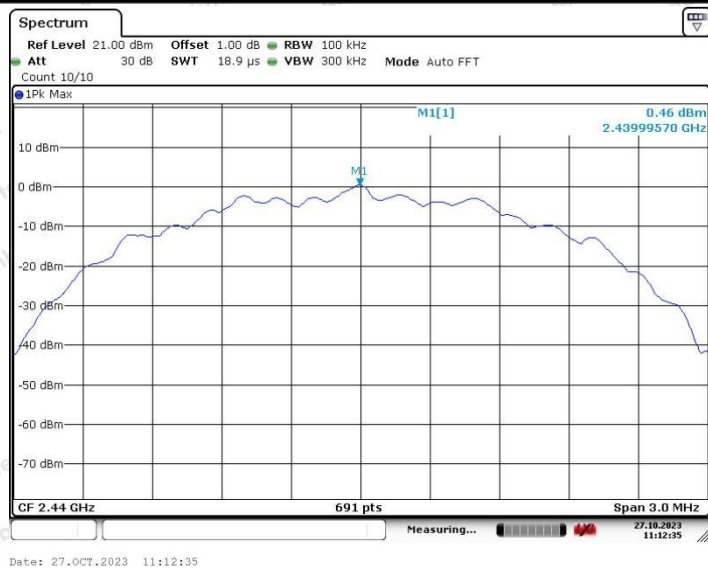
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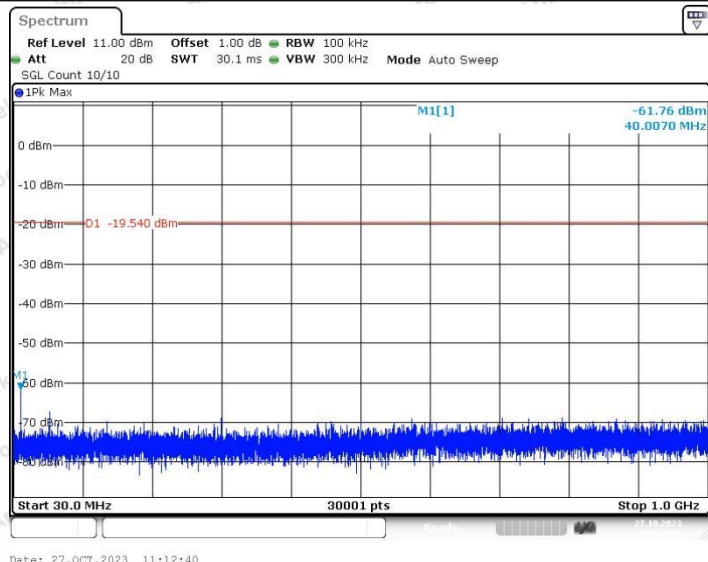


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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

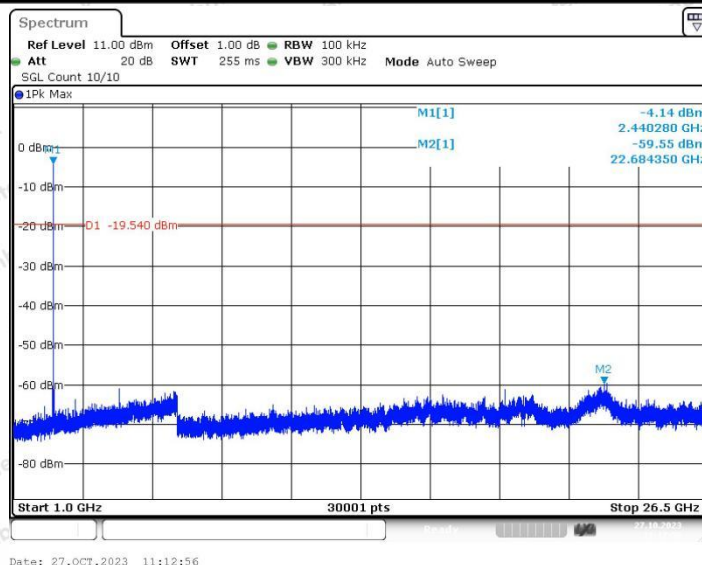
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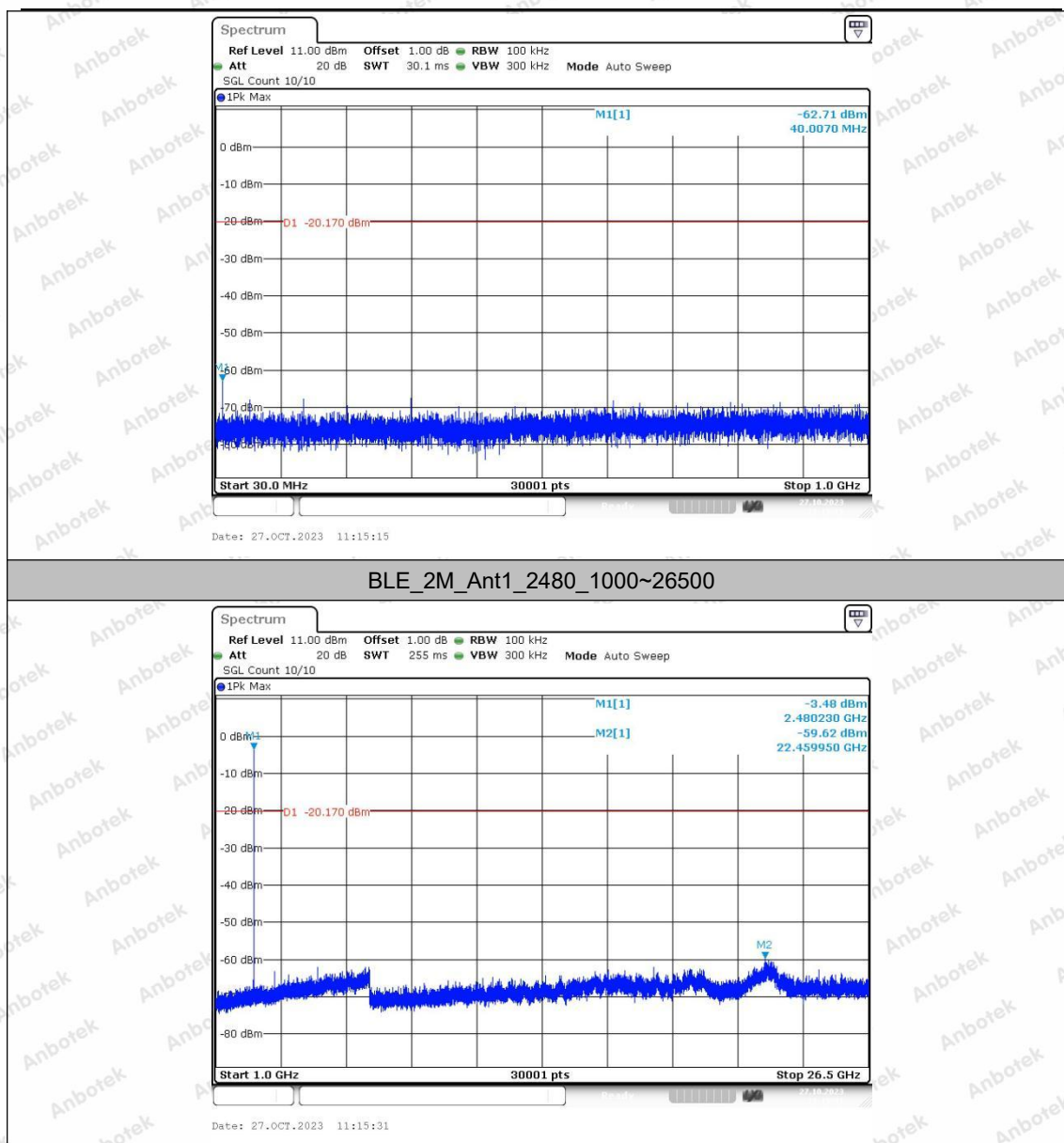


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



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Appendix G: Duty Cycle

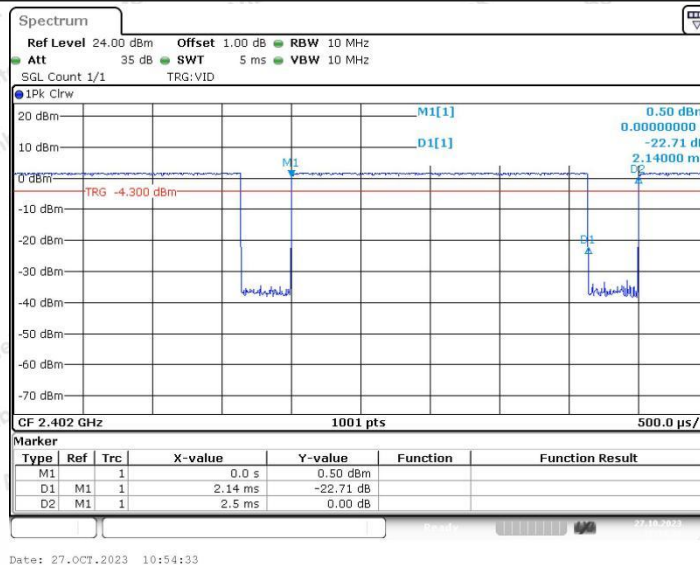
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.14	2.50	85.60	0.68
		2440	2.14	2.50	85.60	0.68
		2480	2.14	2.50	85.60	0.68
BLE_2M	Ant1	2402	1.08	1.88	57.45	2.41
		2440	1.09	1.88	57.98	2.37
		2480	1.08	1.88	57.45	2.41

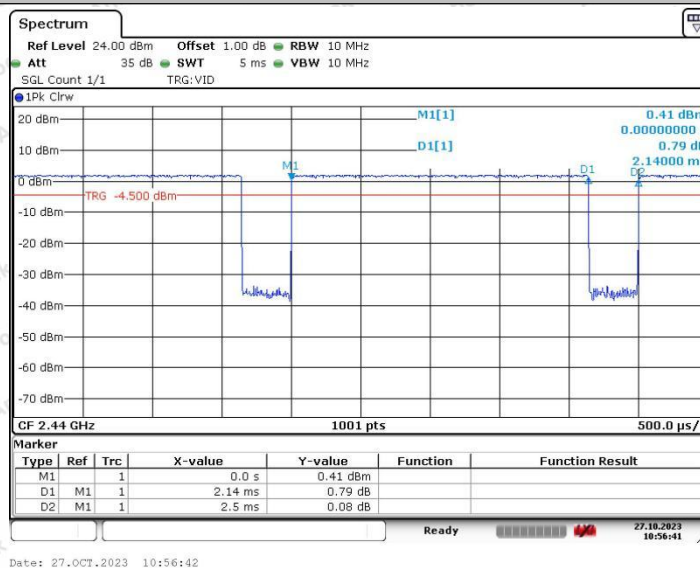


Test Graphs

BLE_1M_Ant1_2402

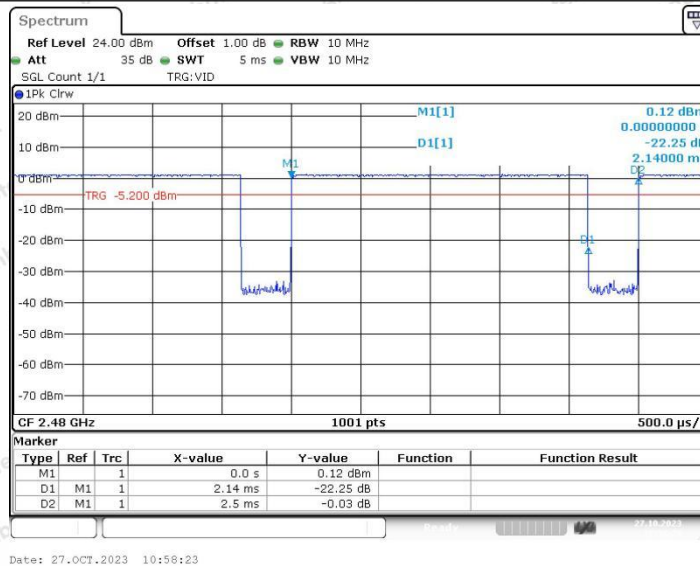


BLE_1M_Ant1_2440

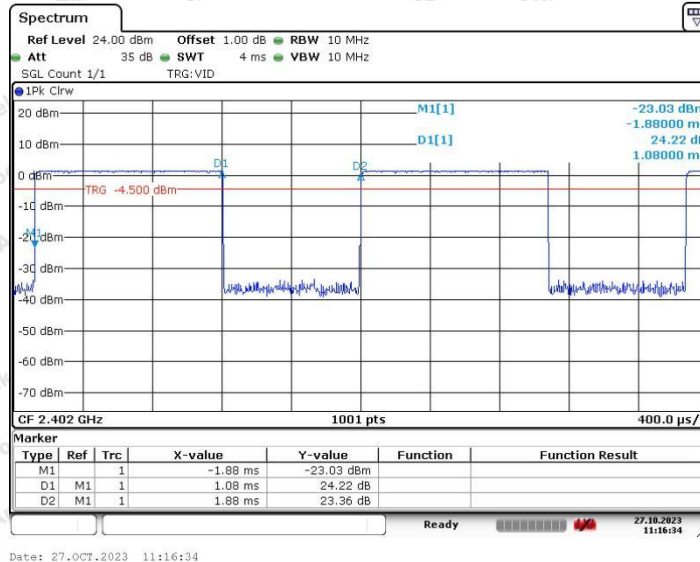


BLE_1M_Ant1_2480





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

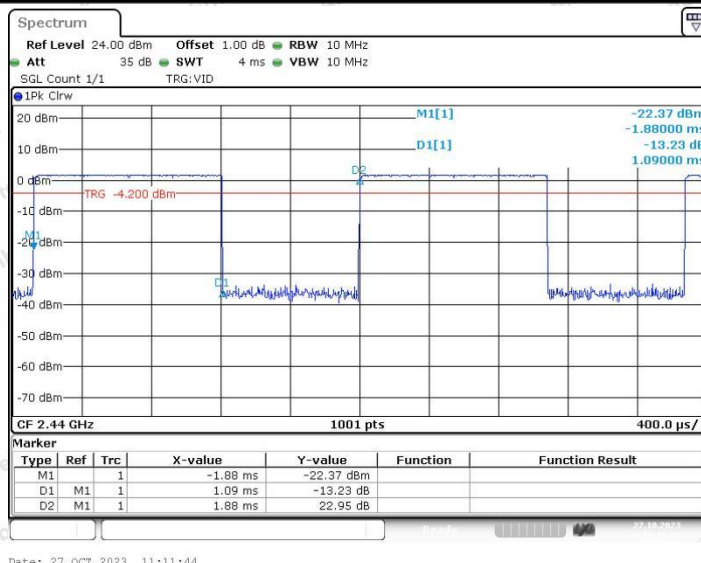
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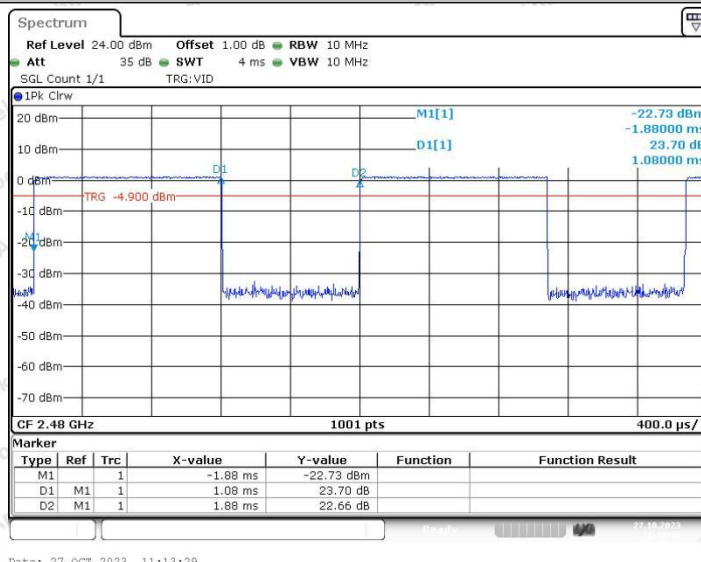


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BLE_2M_Ant1_2480



---End---

