

Appendix Test Data

Report No.:	18220WC30232501	Test Sample No.:	1-2-2
Start Test Date:	2023.11.07	Finish Test Date:	2023.11.08
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	26.4℃	Relative Humidity:	50%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

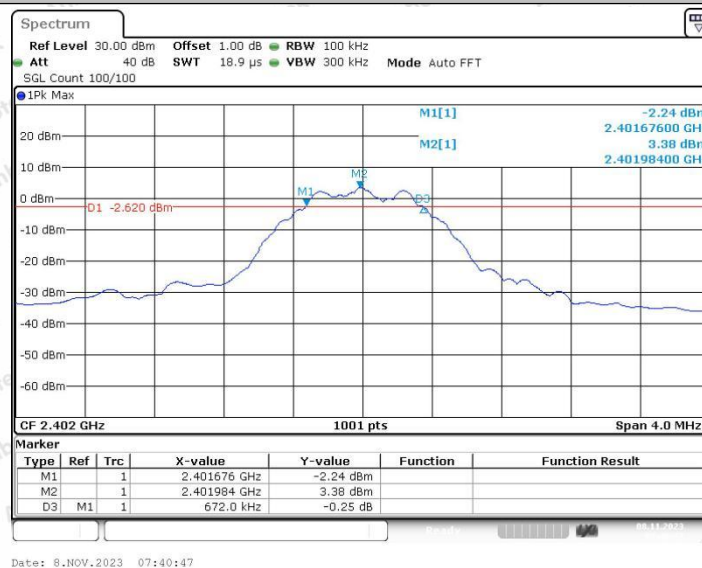
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.67	2401.68	2402.35	0.5	PASS
		2440	0.65	2439.67	2440.32	0.5	PASS
		2480	0.60	2479.69	2480.29	0.5	PASS
BLE_2M	Ant1	2402	1.03	2401.48	2402.51	0.5	PASS
		2440	1.05	2439.48	2440.52	0.5	PASS
		2480	1.04	2479.48	2480.52	0.5	PASS

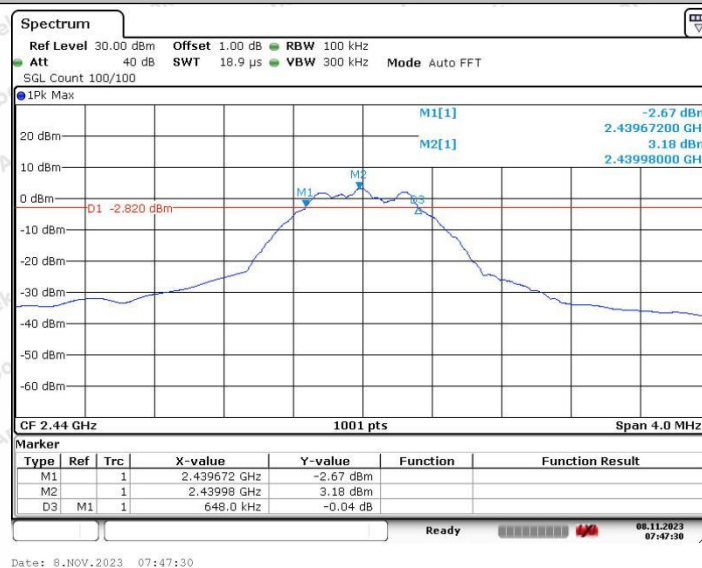


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

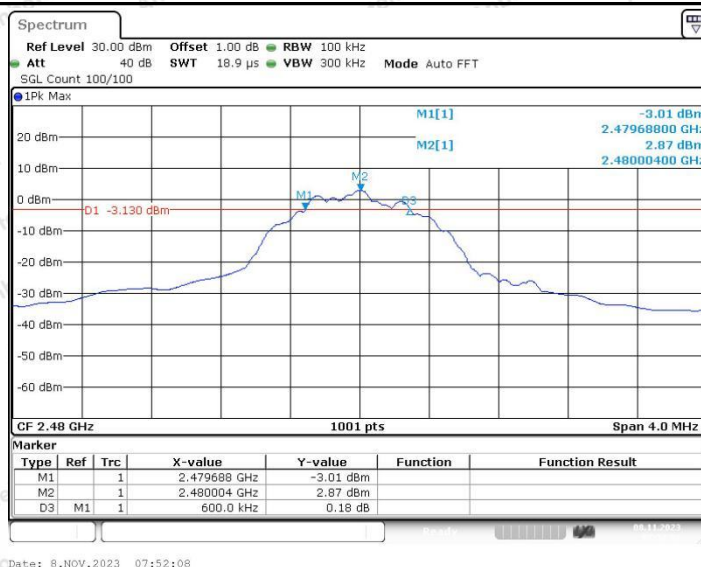
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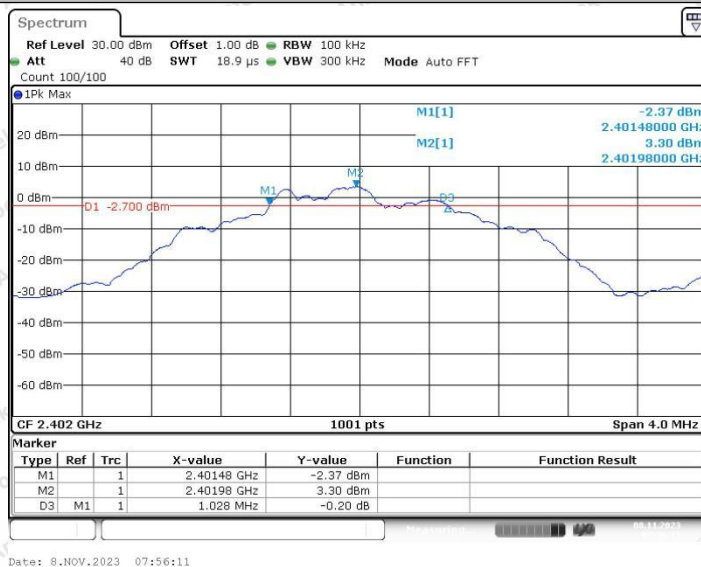


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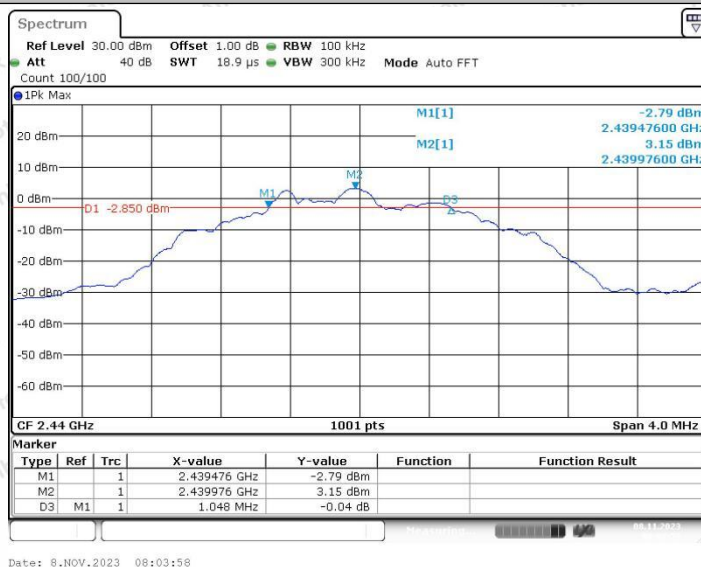




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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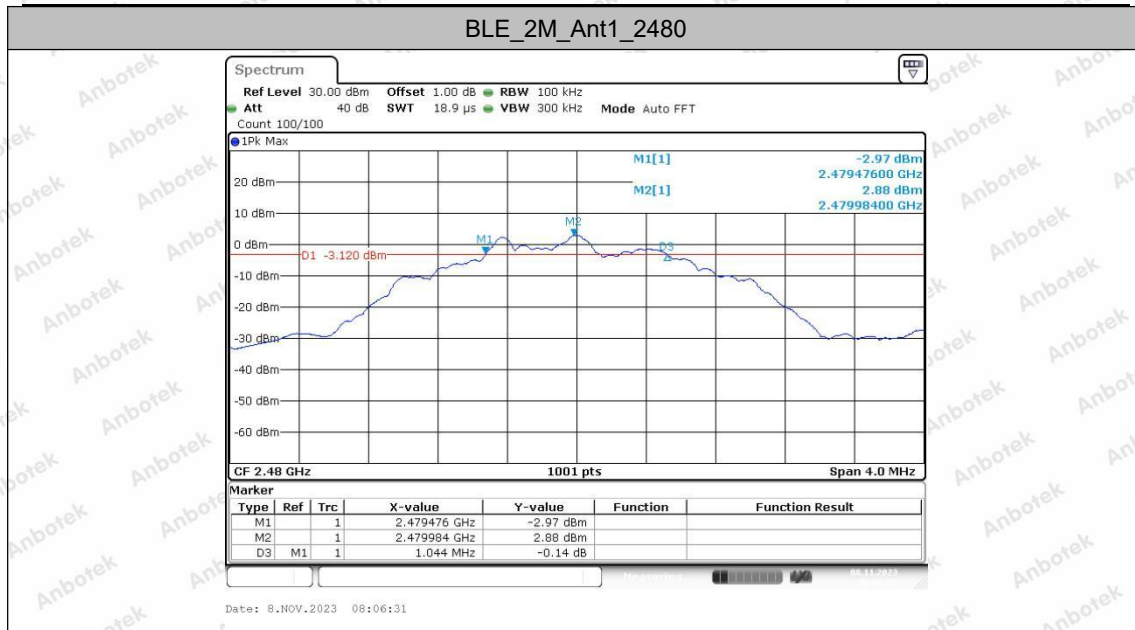


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Appendix B: Occupied Channel Bandwidth

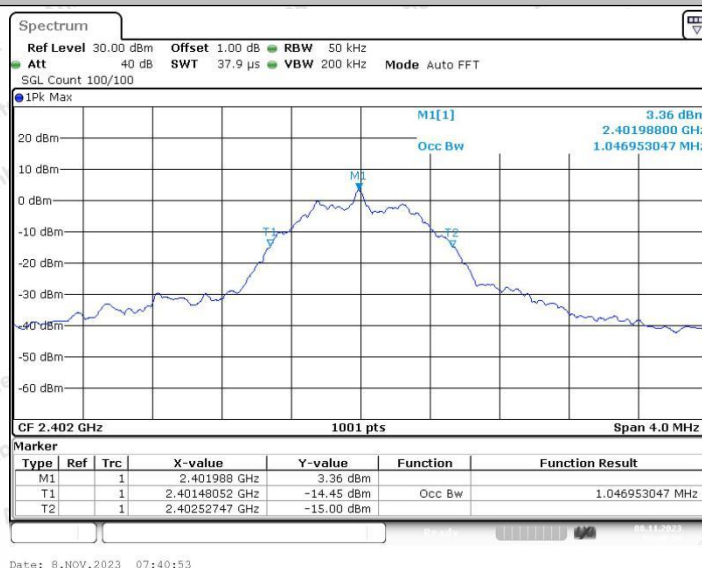
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.047	2401.4805	2402.5275
		2440	1.035	2439.4885	2440.5235
		2480	1.047	2479.4765	2480.5235
BLE_2M	Ant1	2402	2.050	2400.9890	2403.0390
		2440	2.042	2438.9930	2441.0350
		2480	2.034	2479.0090	2481.0430

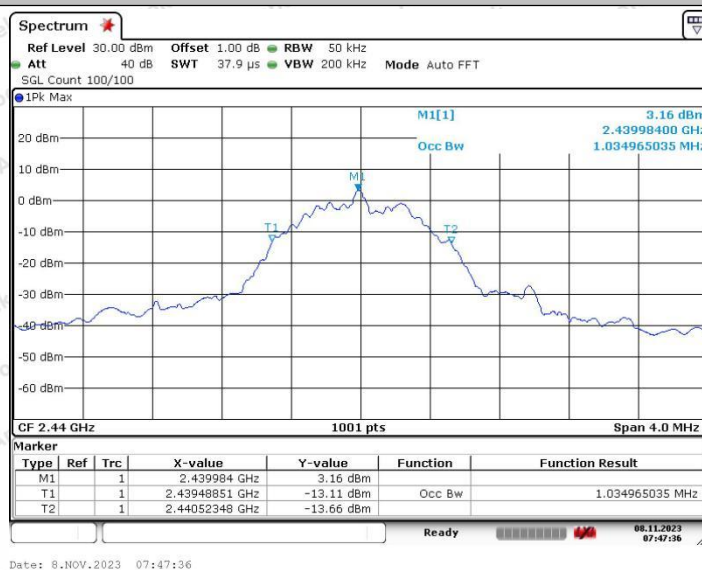


Test Graphs

BLE_1M_Ant1_2402

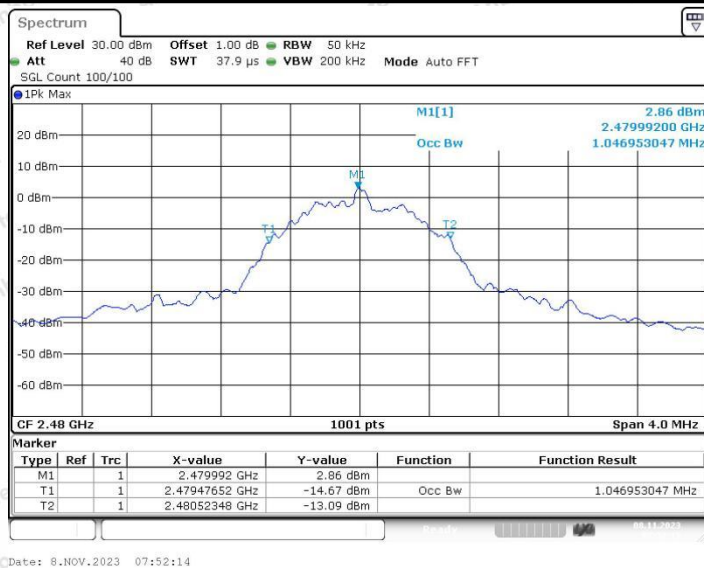


BLE_1M_Ant1_2440

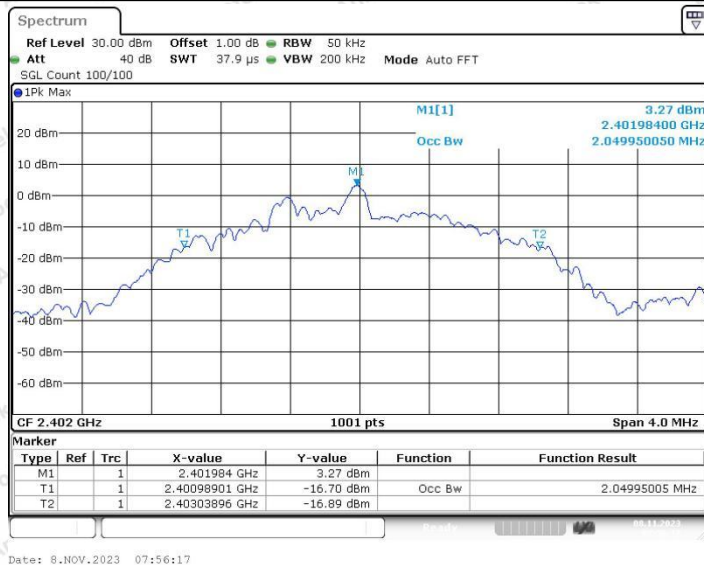


BLE_1M_Ant1_2480

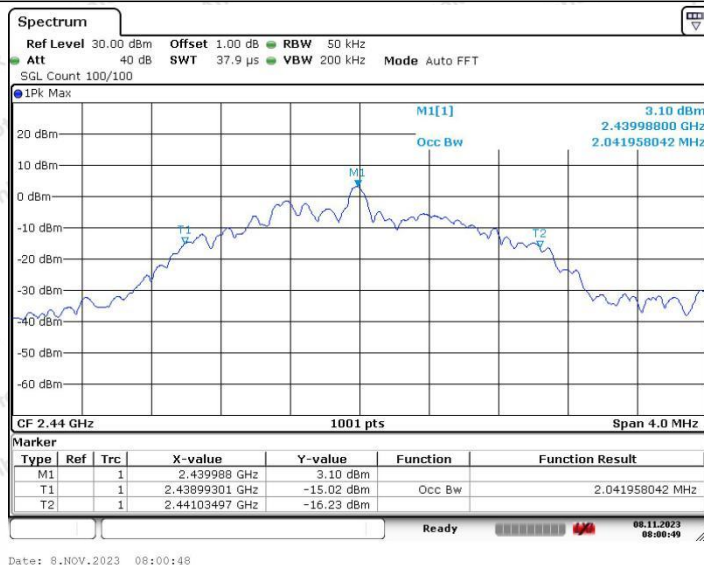




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



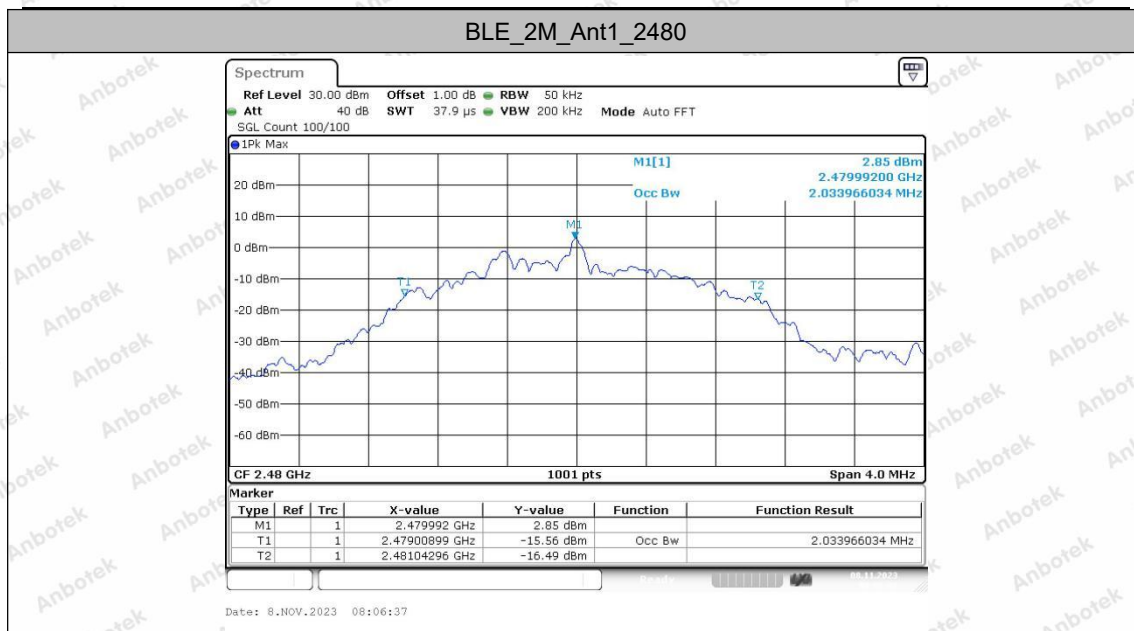
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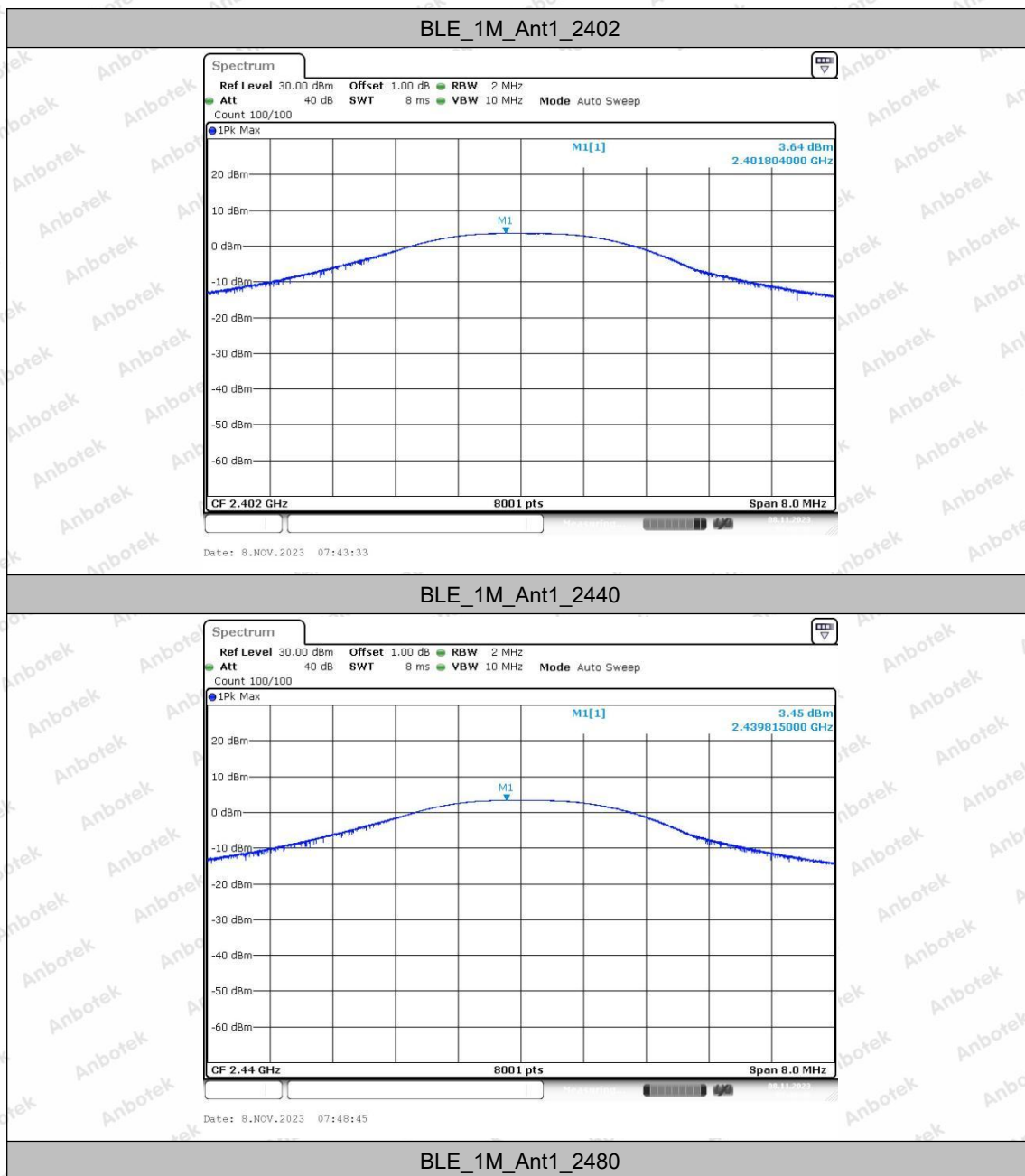
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.64	≤30	PASS
		2440	3.45	≤30	PASS
		2480	3.16	≤30	PASS
BLE_2M	Ant1	2402	3.59	≤30	PASS
		2440	3.45	≤30	PASS
		2480	3.18	≤30	PASS



Test Graphs Peak



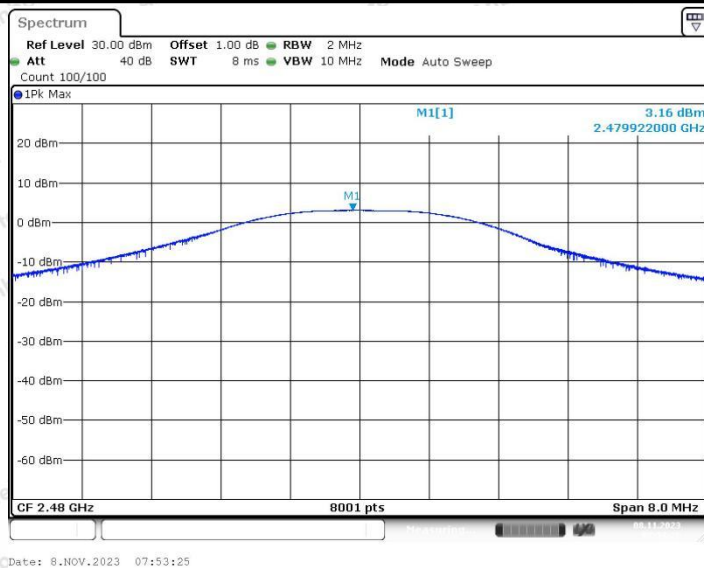
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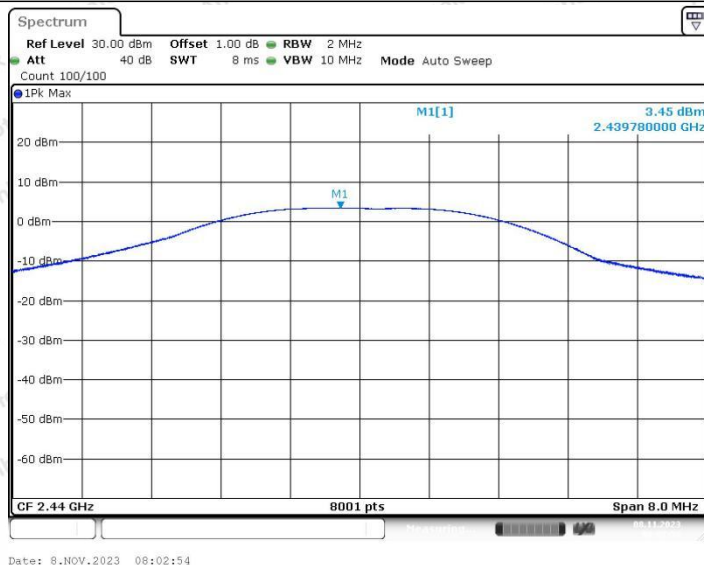




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

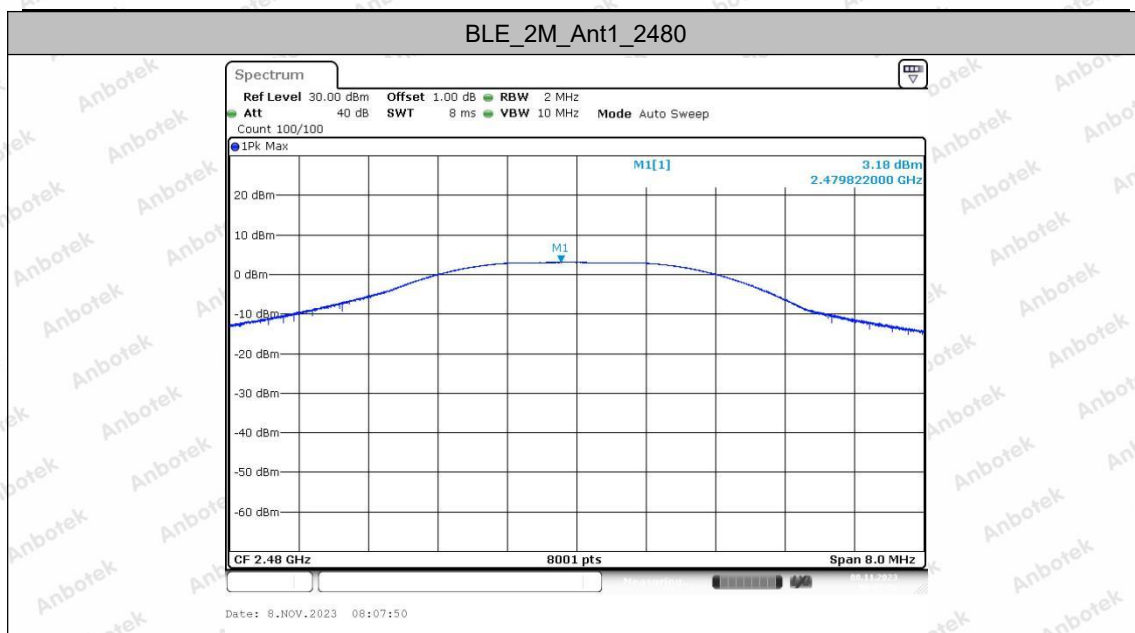
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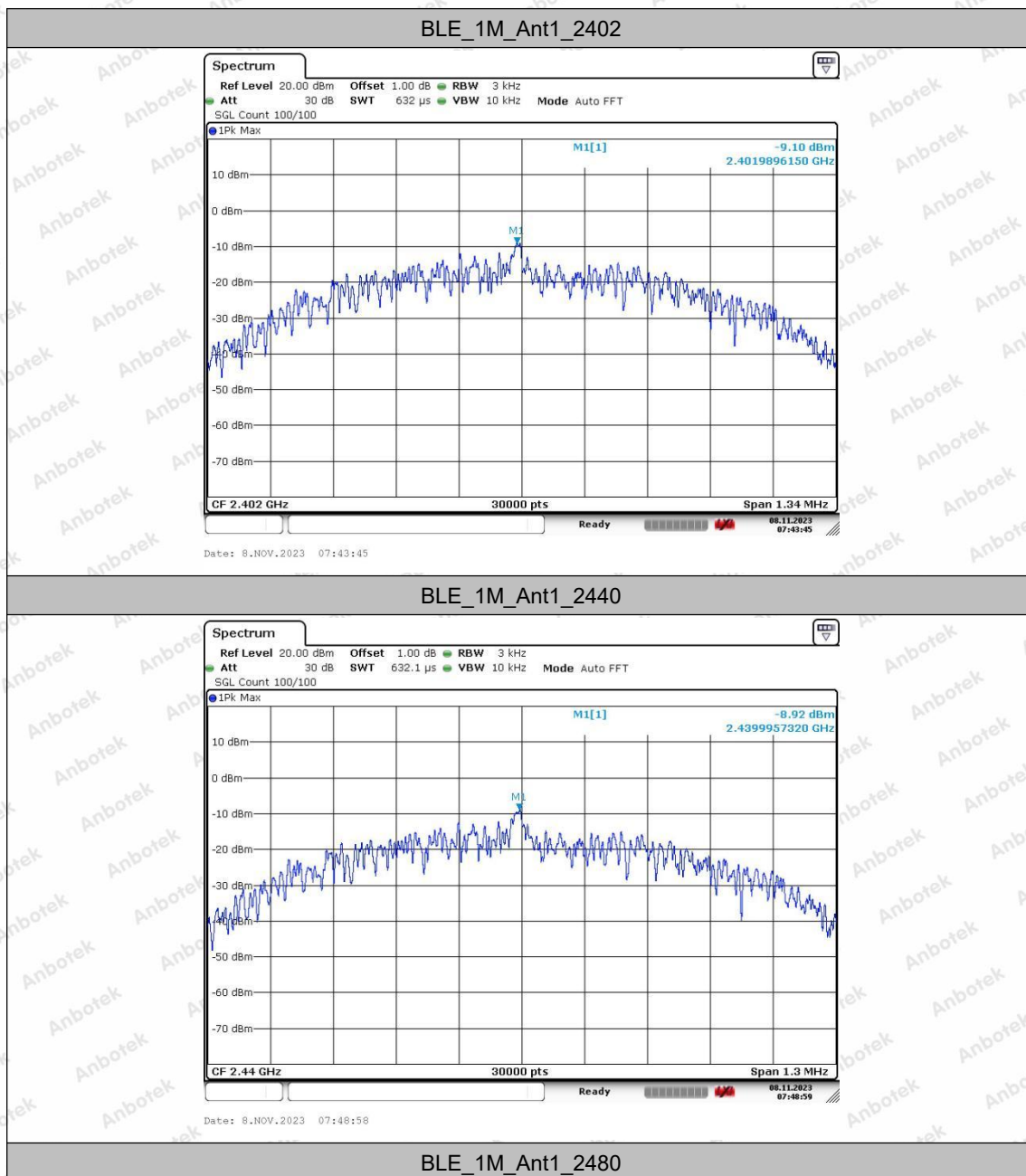
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.10	≤8.00	PASS
		2440	-8.92	≤8.00	PASS
		2480	-9.10	≤8.00	PASS
BLE_2M	Ant1	2402	-10.45	≤8.00	PASS
		2440	-10.46	≤8.00	PASS
		2480	-9.72	≤8.00	PASS



Test Graphs



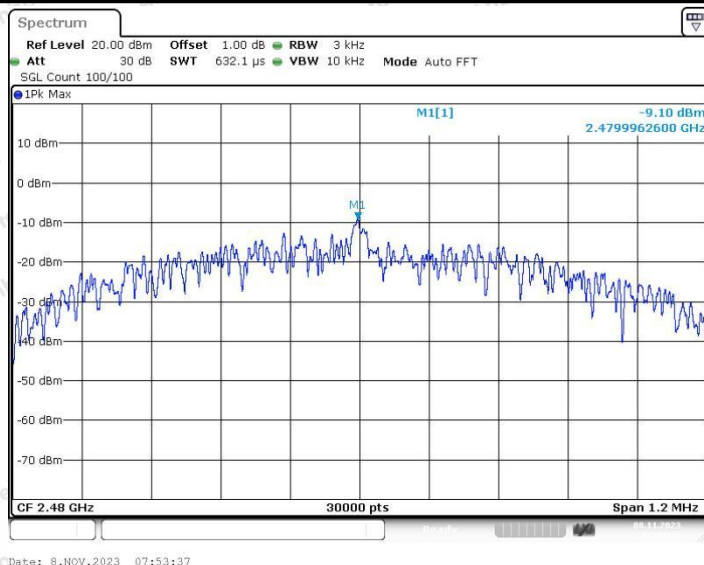
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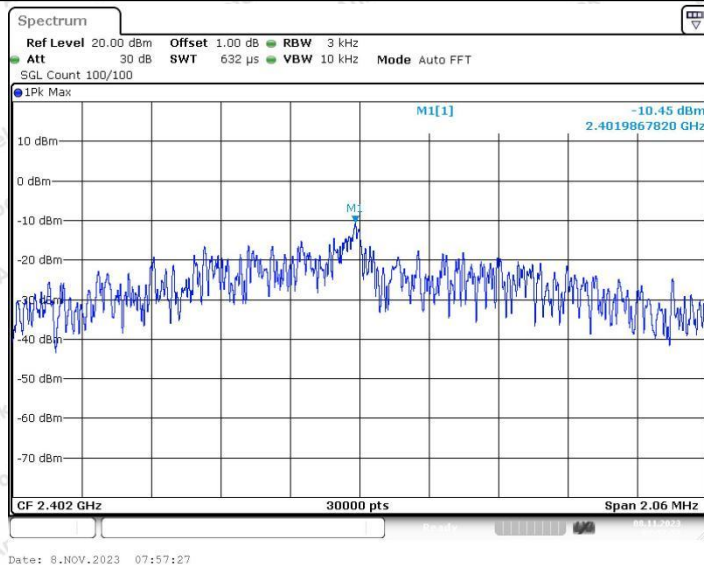


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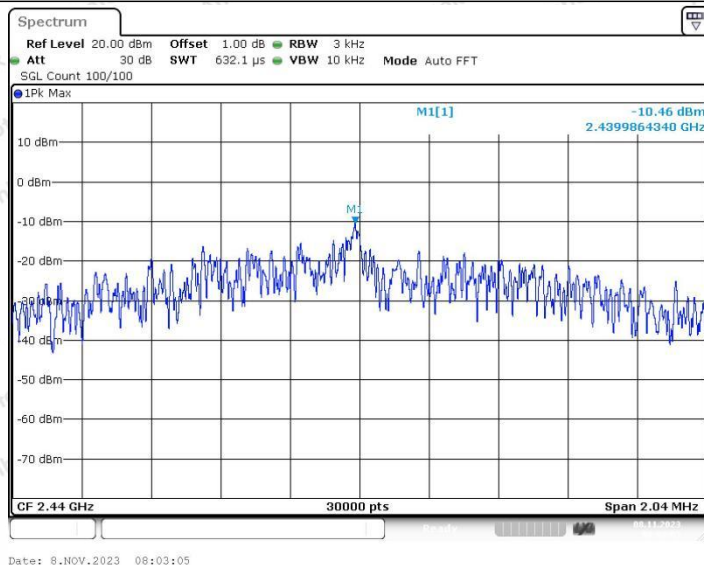




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

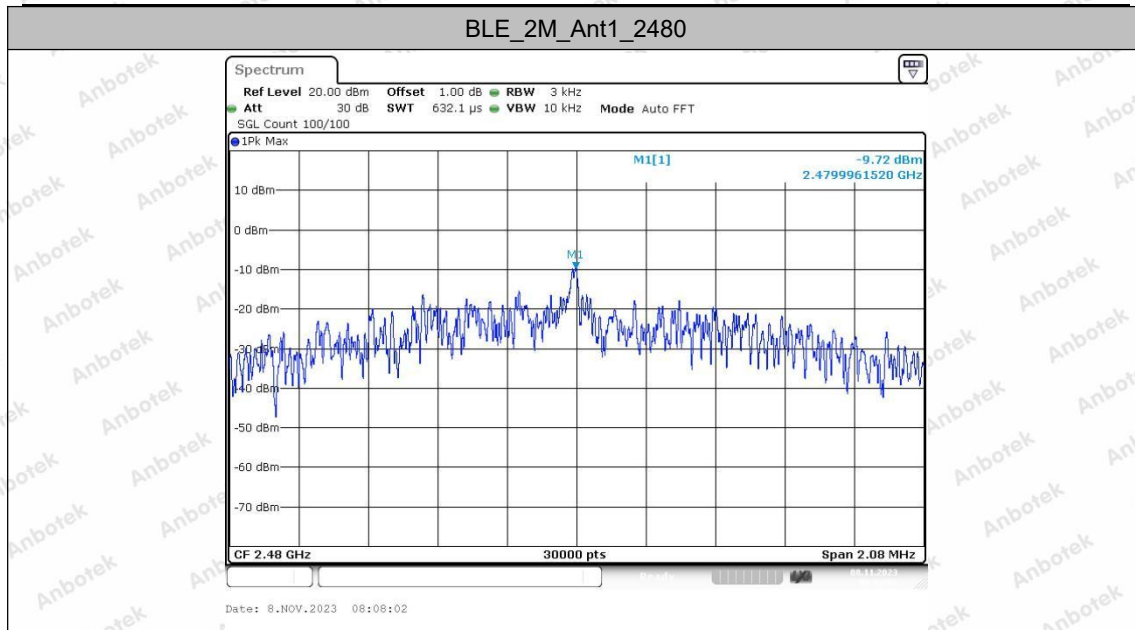
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.37	-34.12	≤-16.63	PASS
		High	2480	2.93	-39.9	≤-17.07	PASS
BLE_2M	Ant1	Low	2402	3.32	-32.93	≤-16.68	PASS
		High	2480	2.92	-39.97	≤-17.08	PASS



Test Graphs



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Appendix F: Conducted Spurious Emission

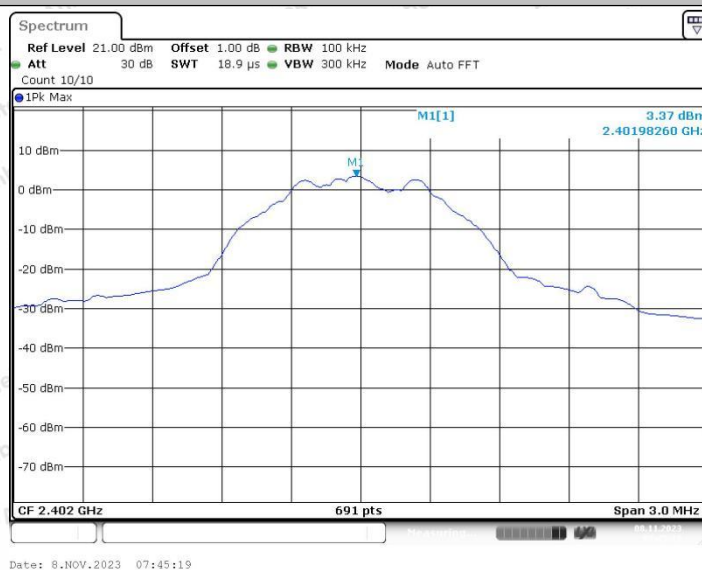
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.37	3.37	---	PASS
			30~1000	3.37	-54.18	≤-16.63	PASS
			1000~26500	3.37	-48.97	≤-16.63	PASS
		2440	Reference	3.11	3.11	---	PASS
			30~1000	3.11	-54.19	≤-16.89	PASS
			1000~26500	3.11	-47.06	≤-16.89	PASS
		2480	Reference	2.81	2.81	---	PASS
			30~1000	2.81	-54.23	≤-17.19	PASS
			1000~26500	2.81	-46.99	≤-17.19	PASS
BLE_2M	Ant1	2402	Reference	3.32	3.32	---	PASS
			30~1000	3.32	-54.19	≤-16.68	PASS
			1000~26500	3.32	-47.57	≤-16.68	PASS
		2440	Reference	3.11	3.11	---	PASS
			30~1000	3.11	-53.79	≤-16.89	PASS
			1000~26500	3.11	-47.99	≤-16.89	PASS
		2480	Reference	2.84	2.84	---	PASS
			30~1000	2.84	-54.07	≤-17.16	PASS
			1000~26500	2.84	-48.27	≤-17.16	PASS

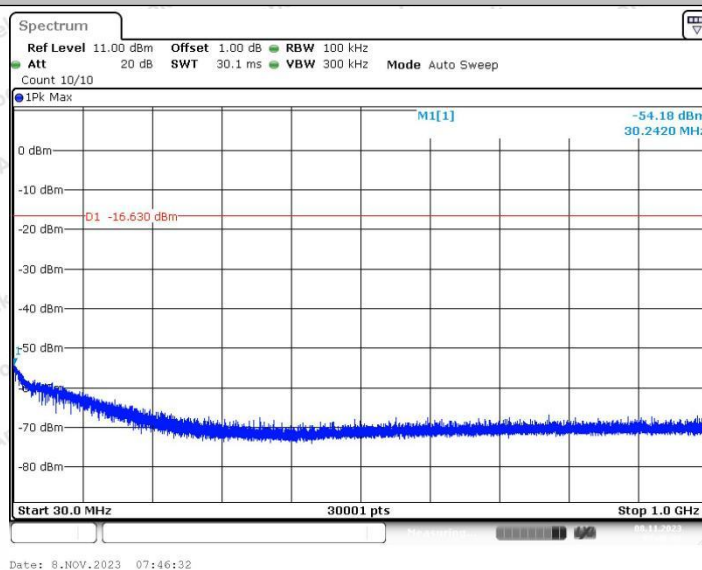


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

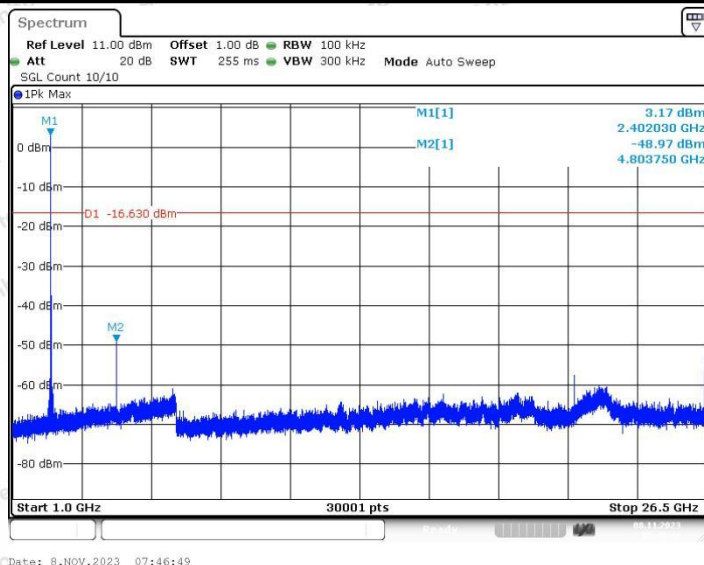
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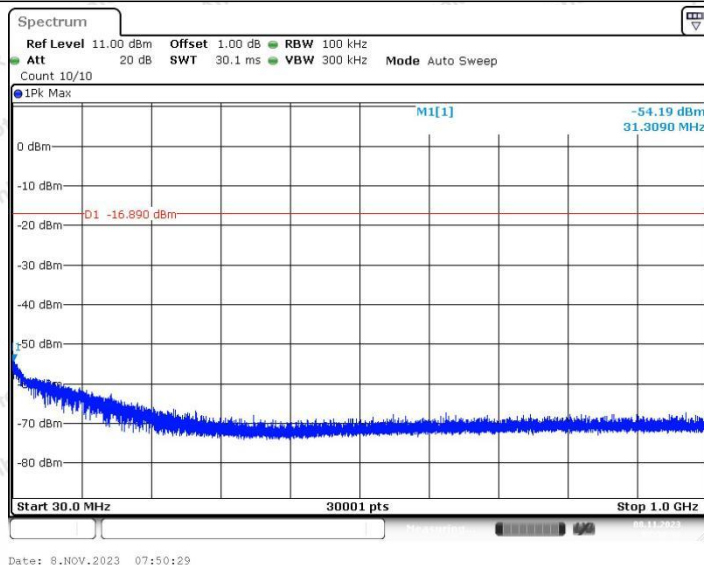




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

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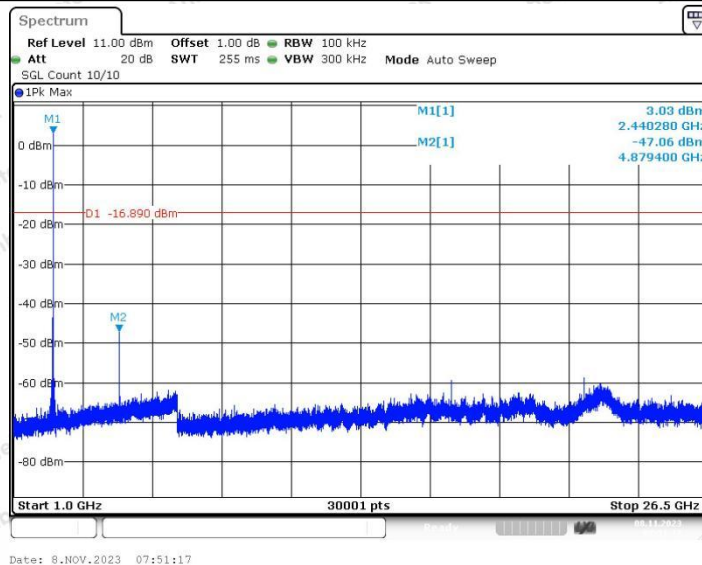
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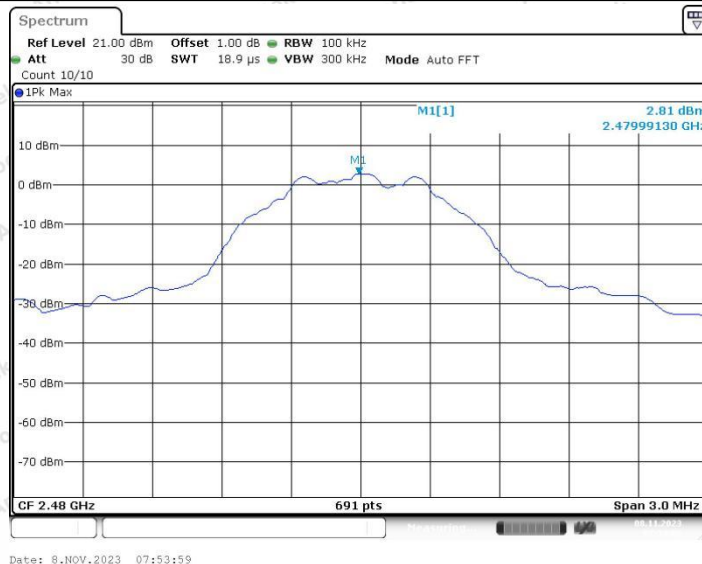
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BLE_1M_Ant1_2440_1000~26500

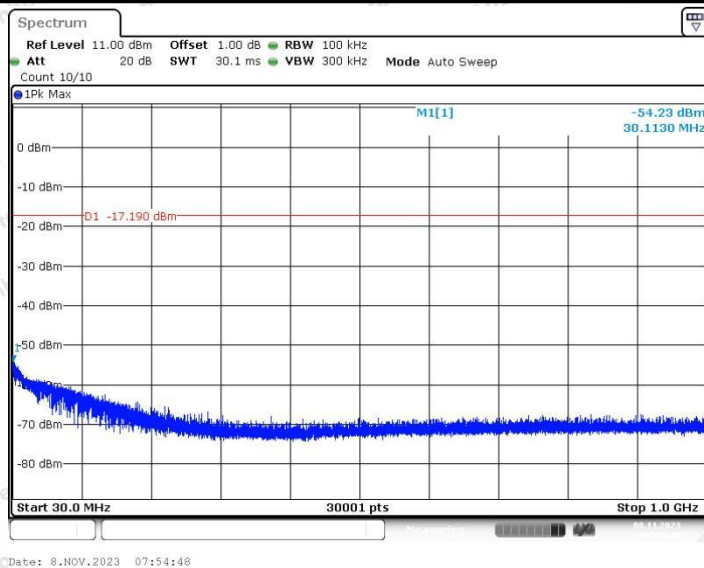


BLE_1M_Ant1_2480_0~Reference

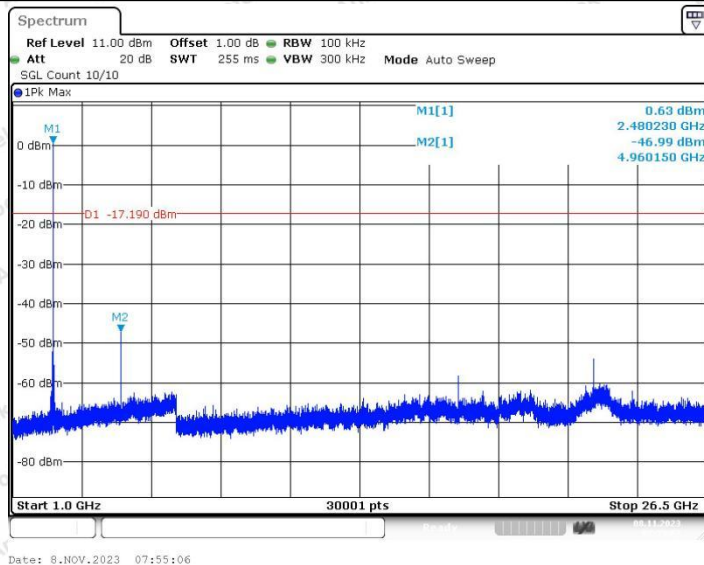


BLE_1M_Ant1_2480_30~1000





BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



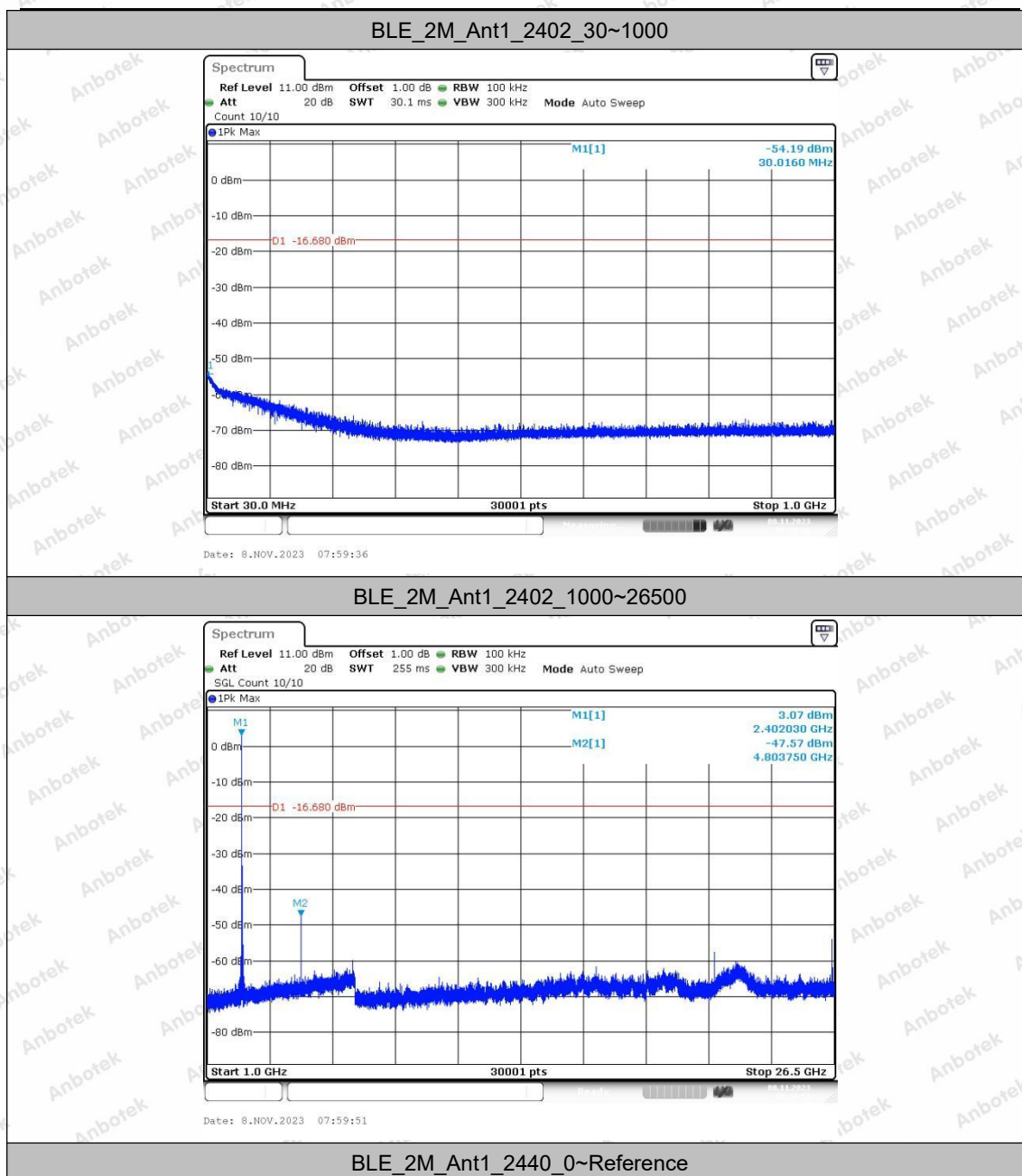
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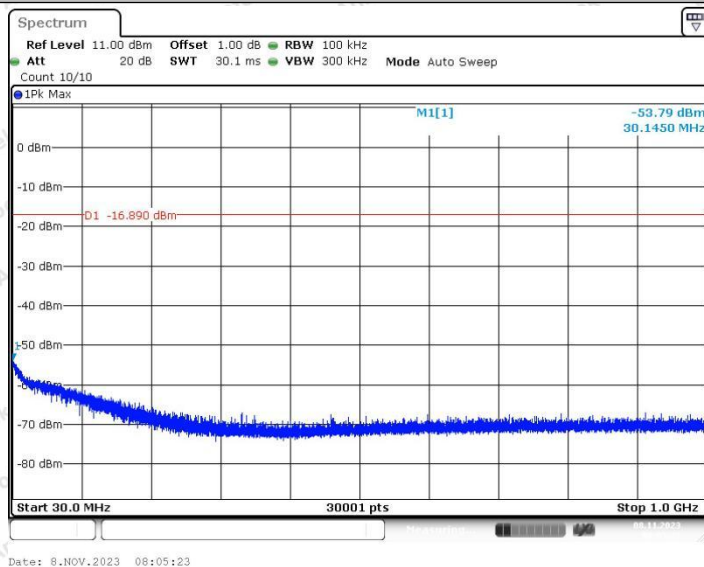


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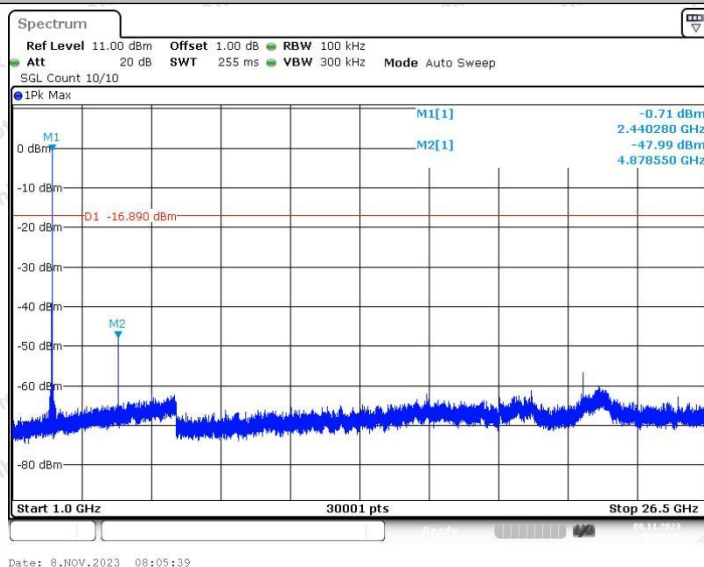




BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



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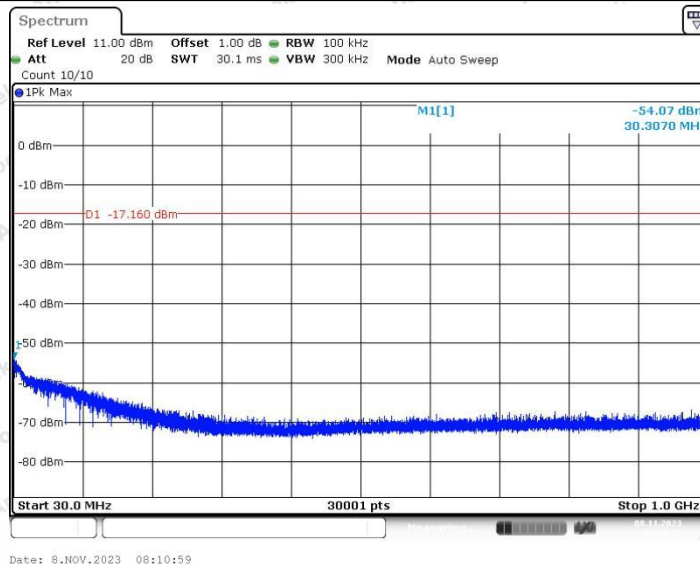
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500

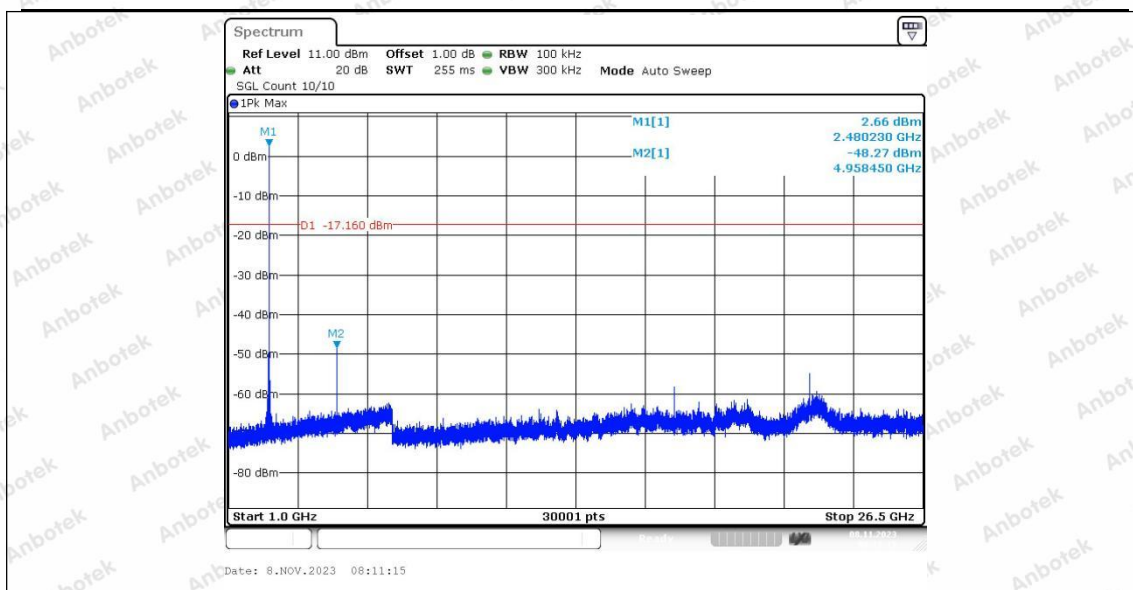
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Appendix G: Duty Cycle

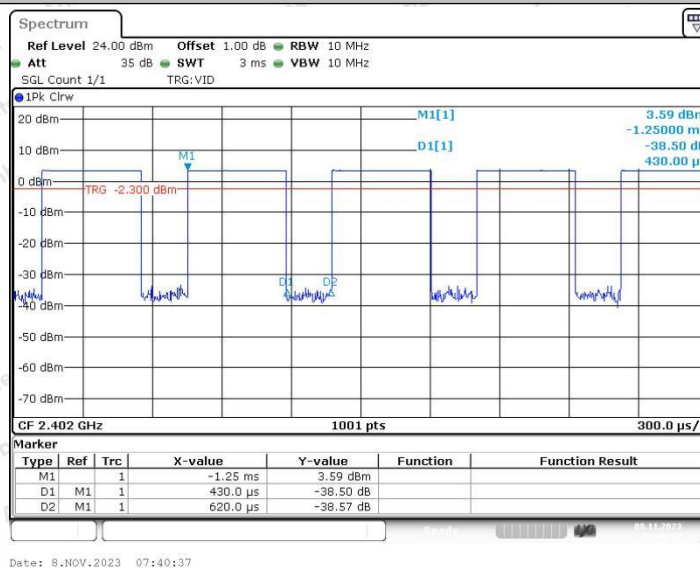
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.43	0.62	69.35	1.59
		2440	0.43	0.62	69.35	1.59
		2480	0.43	0.62	69.35	1.59
BLE_2M	Ant1	2402	0.25	0.63	39.68	4.01
		2440	0.25	0.63	39.68	4.01
		2480	0.25	0.63	39.68	4.01

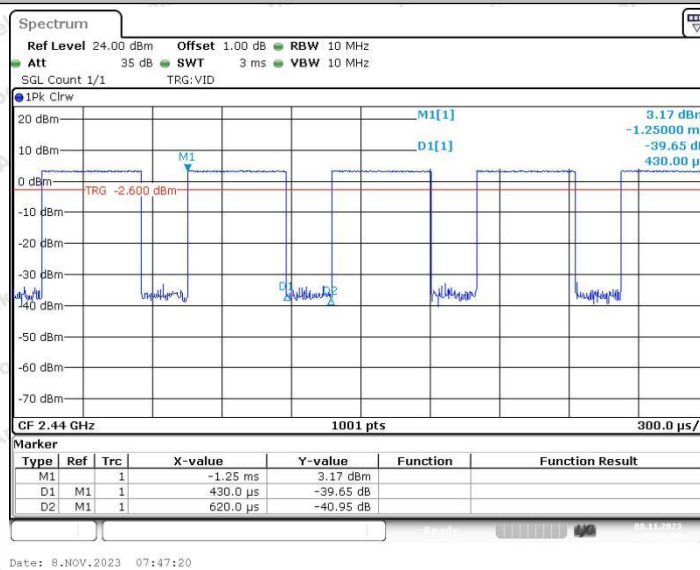


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

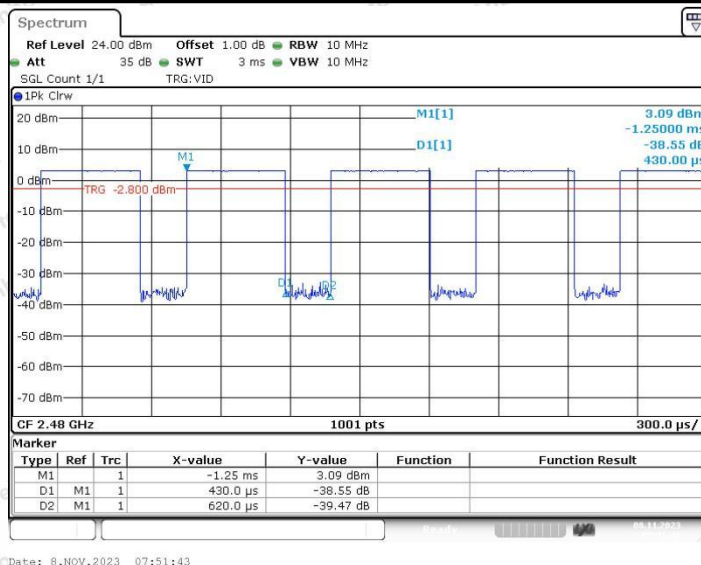
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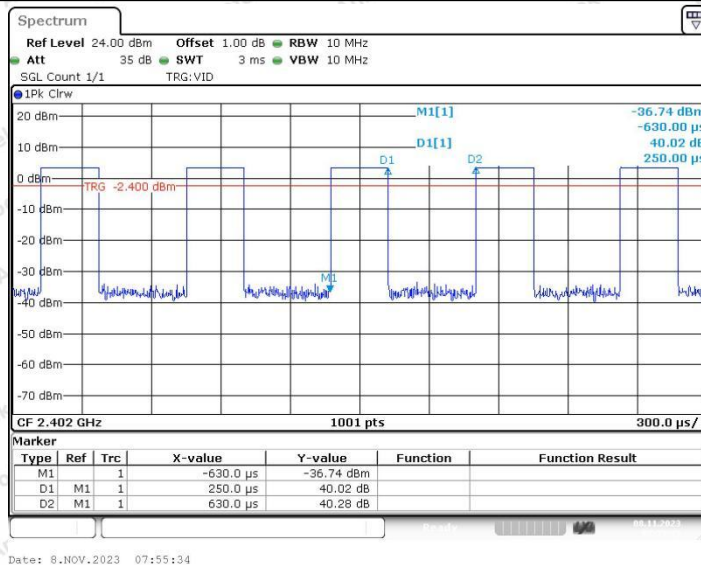


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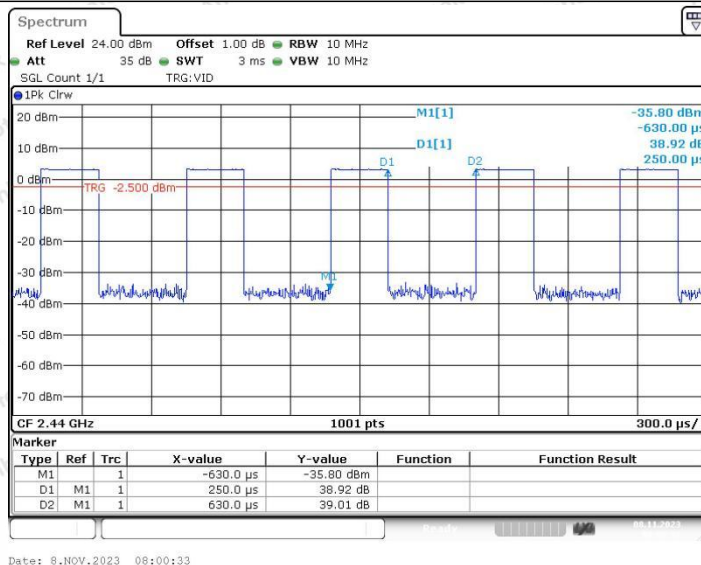




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



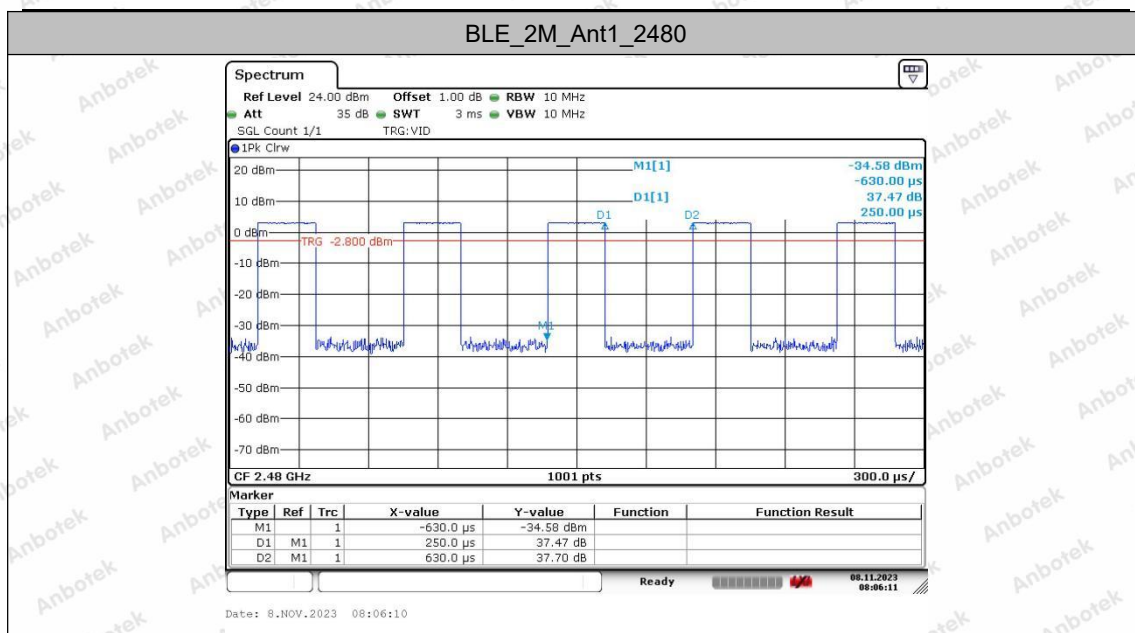
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