

Appendix Test Data

Report No.:	18220WC30222601	Test Sample No.:	1-2-2
Start Test Date:	2023.10.19	Finish Test Date:	2023.10.25
Test Engineer:	Hayman Chen	Auditor:	Justin Feng
Temperature:	25.6℃	Relative Humidity:	48.5%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

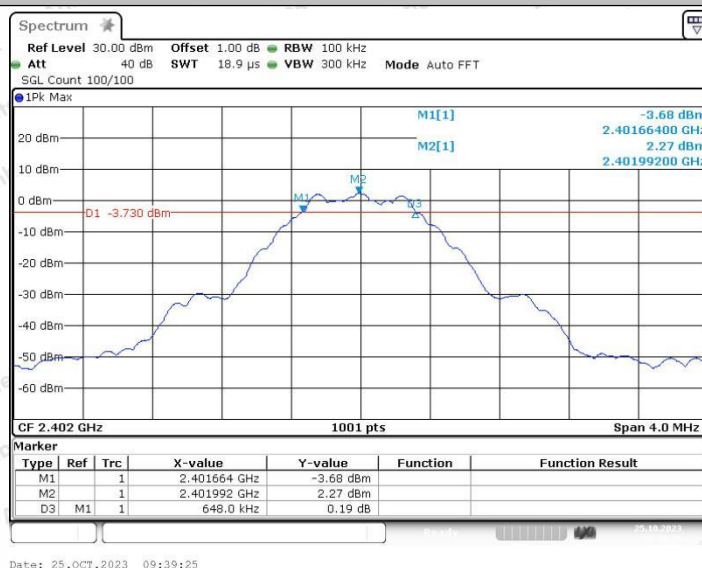
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.65	2401.66	2402.31	0.5	PASS
		2440	0.68	2439.64	2440.32	0.5	PASS
		2480	0.64	2479.68	2480.32	0.5	PASS
BLE_2M	Ant1	2402	1.13	2401.41	2402.54	0.5	PASS
		2440	0.79	2439.46	2440.25	0.5	PASS
		2480	0.66	2479.56	2480.22	0.5	PASS

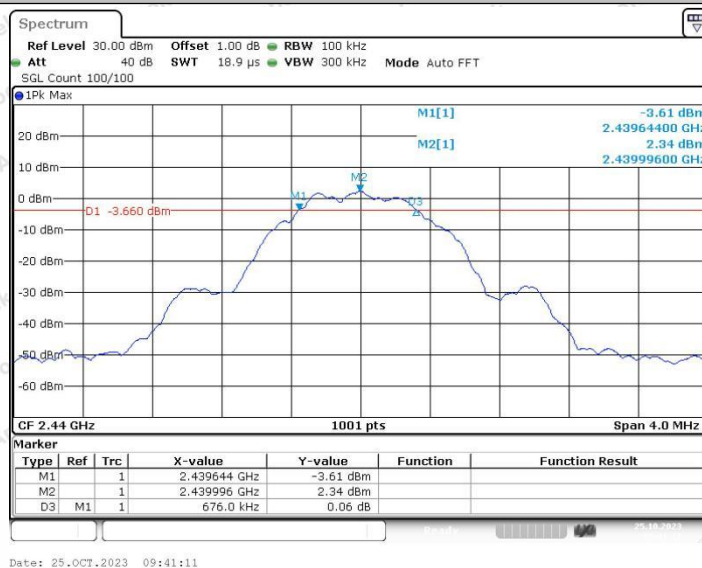


Test Graphs

BLE_1M_Ant1_2402

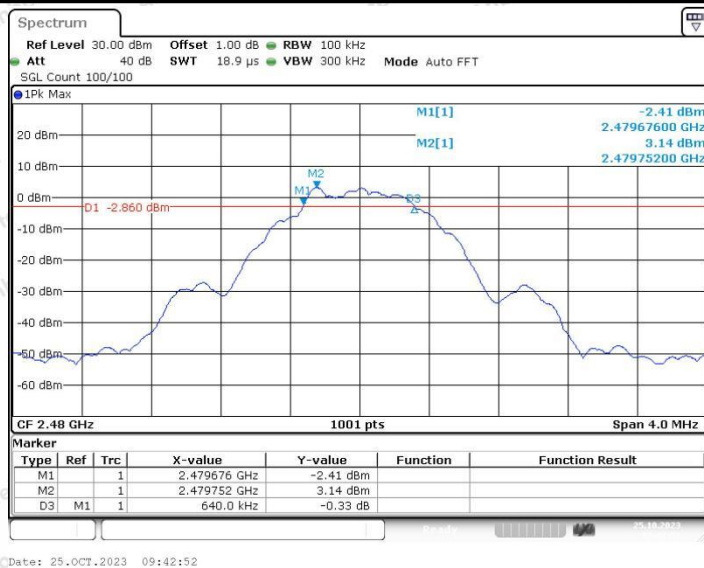


BLE_1M_Ant1_2440

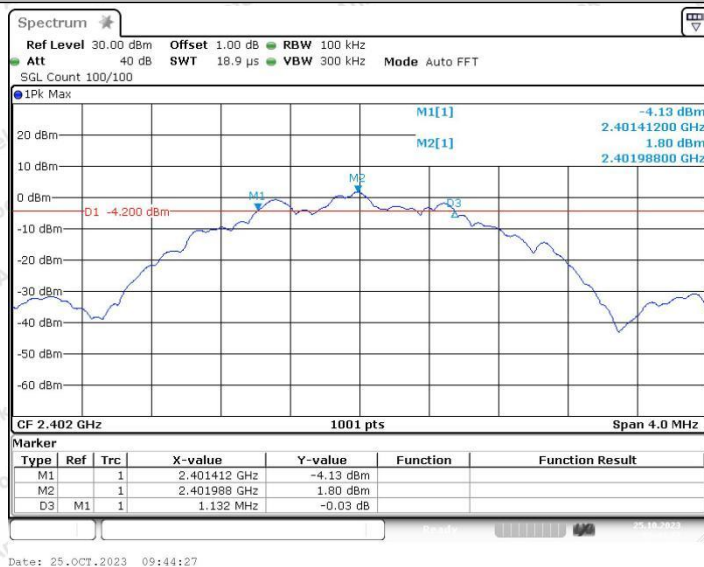


BLE_1M_Ant1_2480

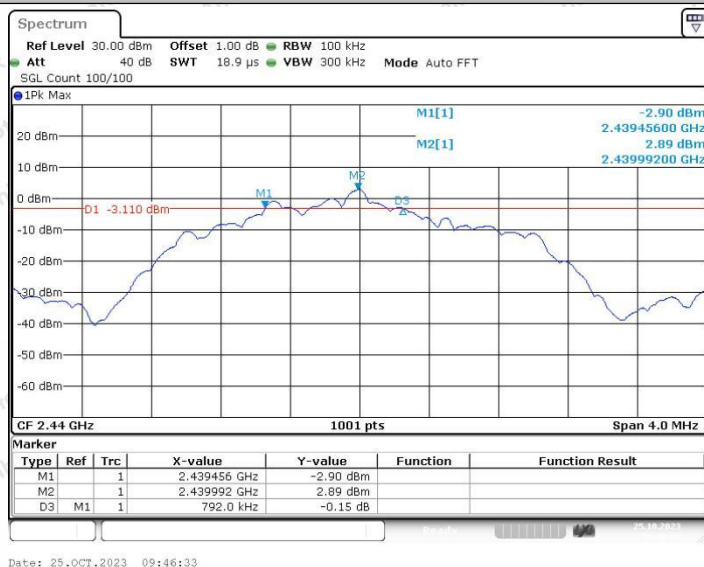




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



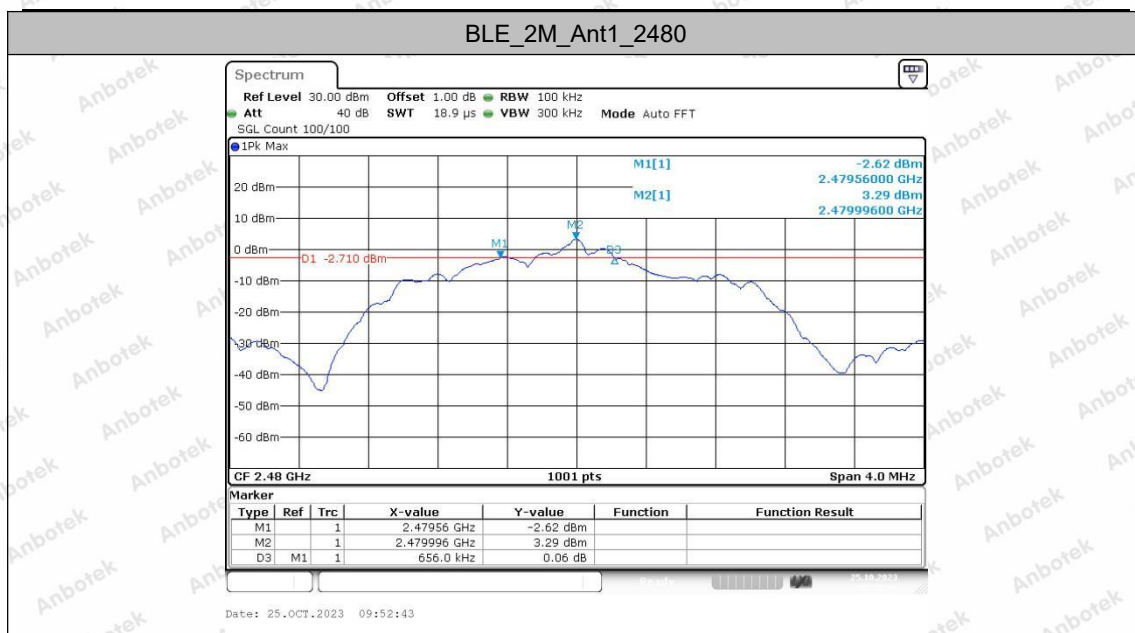
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.027	2401.4925	2402.5195
		2440	1.039	2439.4805	2440.5195
		2480	1.039	2479.4725	2480.5115
BLE_2M	Ant1	2402	2.018	2401.0250	2403.0430
		2440	2.038	2438.9970	2441.0350
		2480	2.078	2478.9690	2481.0470



Test Graphs



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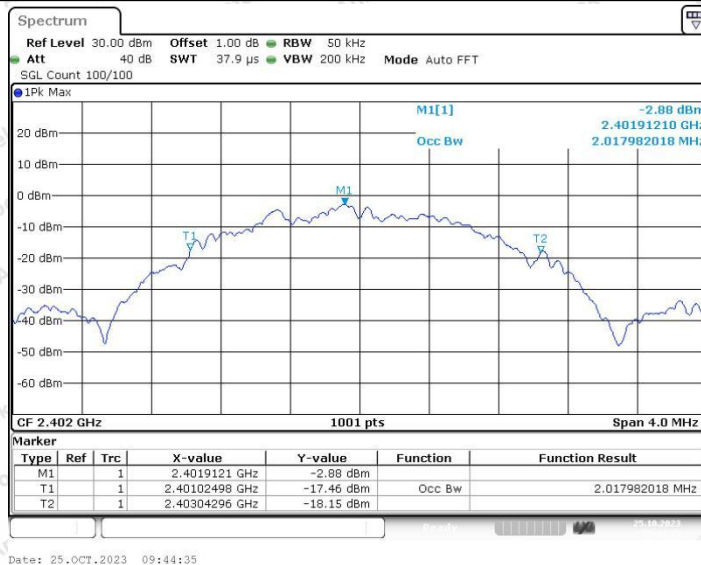


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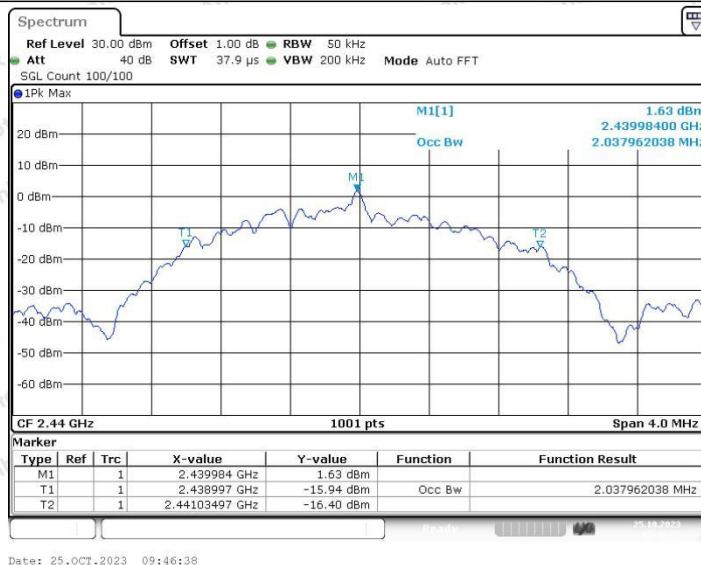




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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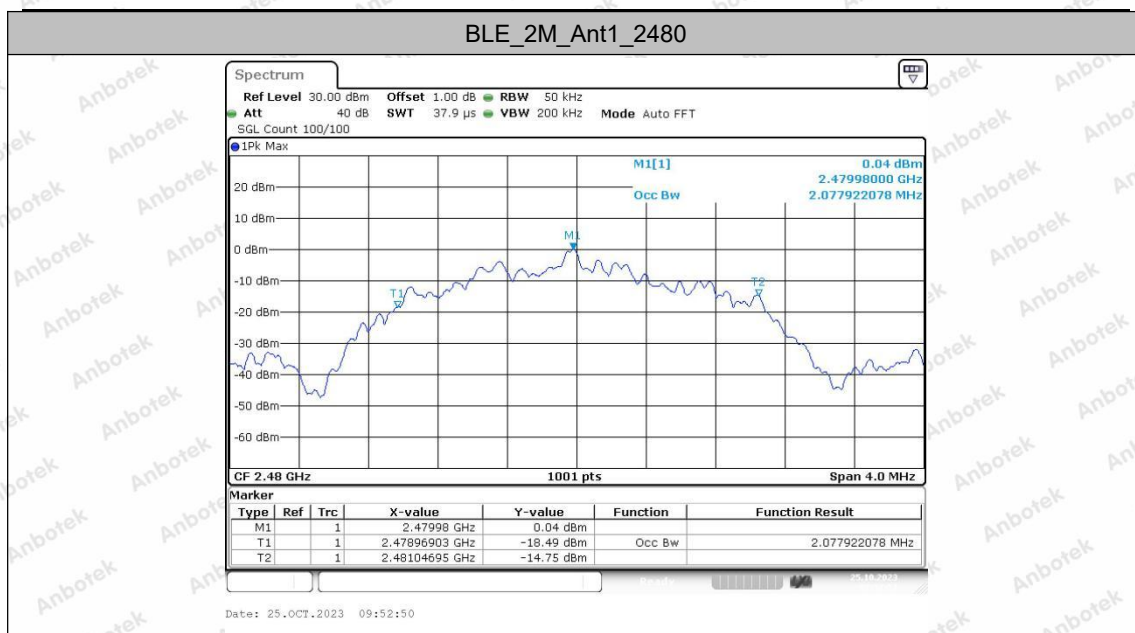


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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.64	≤30	PASS
		2440	3.19	≤30	PASS
		2480	3.53	≤30	PASS
BLE_2M	Ant1	2402	2.64	≤30	PASS
		2440	3.20	≤30	PASS
		2480	3.53	≤30	PASS



Test Graphs Peak



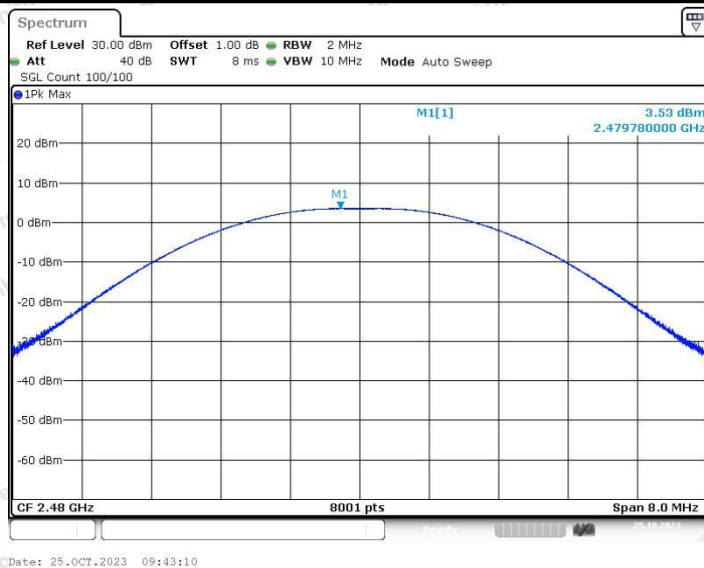
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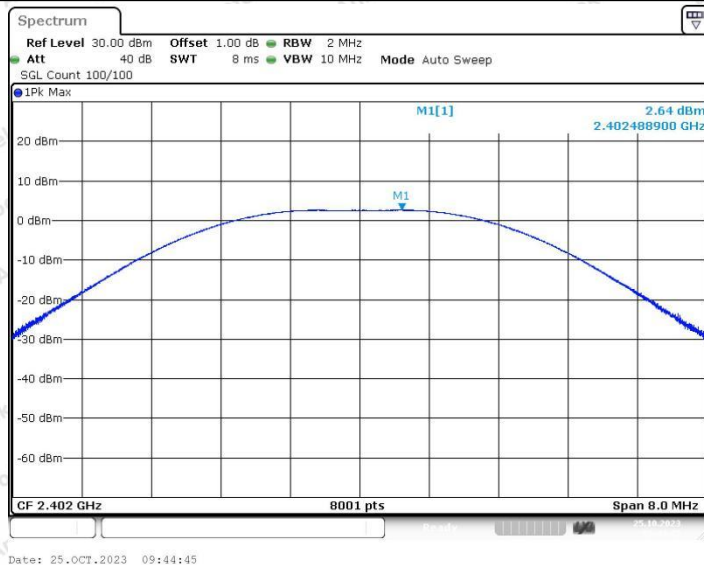


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

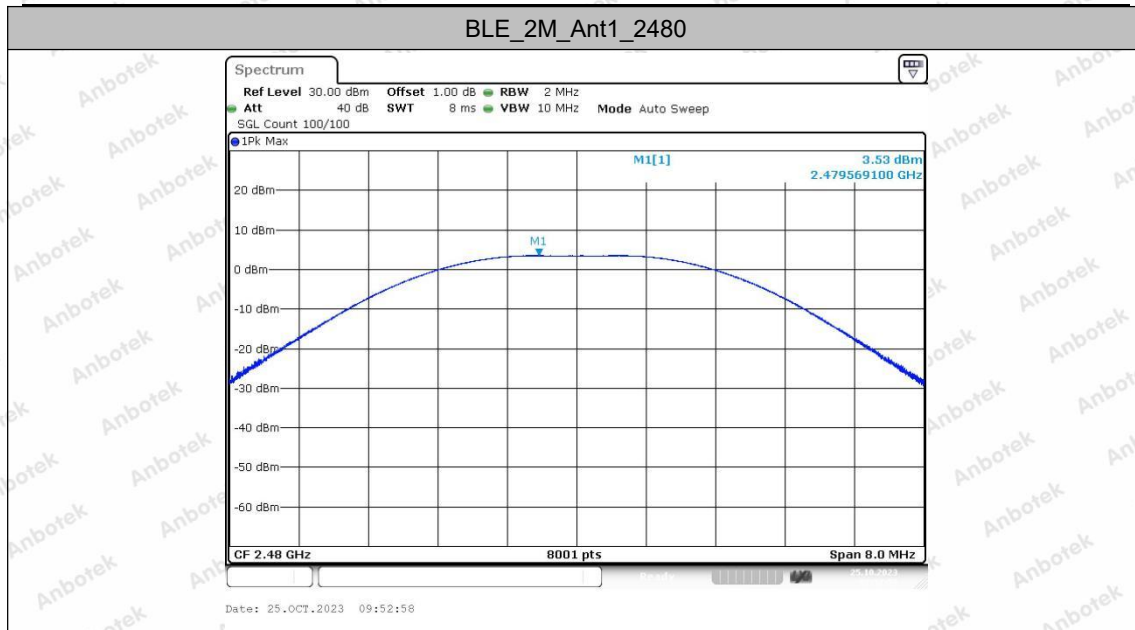
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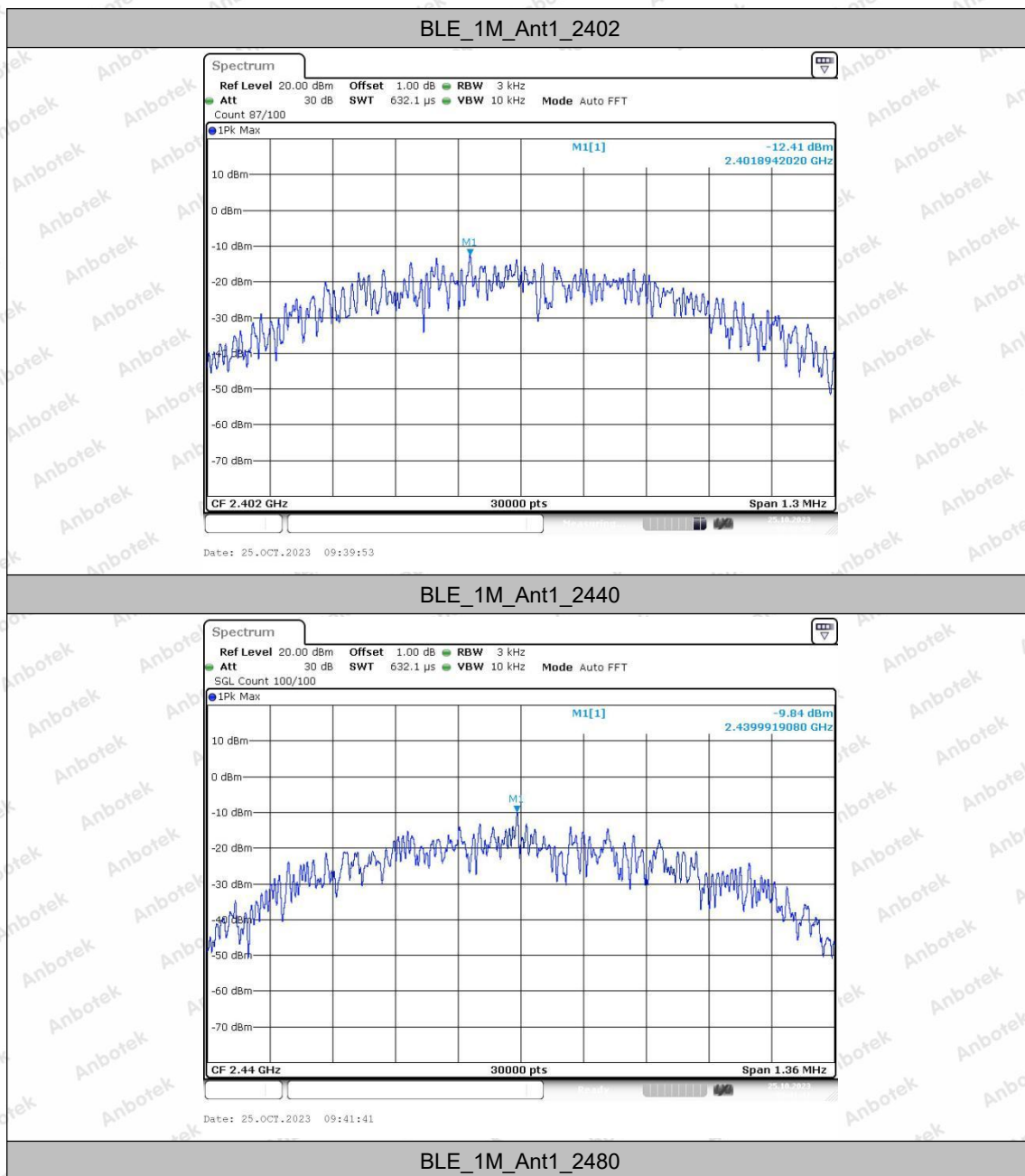
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.41	≤8.00	PASS
		2440	-9.84	≤8.00	PASS
		2480	-12.68	≤8.00	PASS
BLE_2M	Ant1	2402	-15.21	≤8.00	PASS
		2440	-13.58	≤8.00	PASS
		2480	-13.57	≤8.00	PASS



Test Graphs



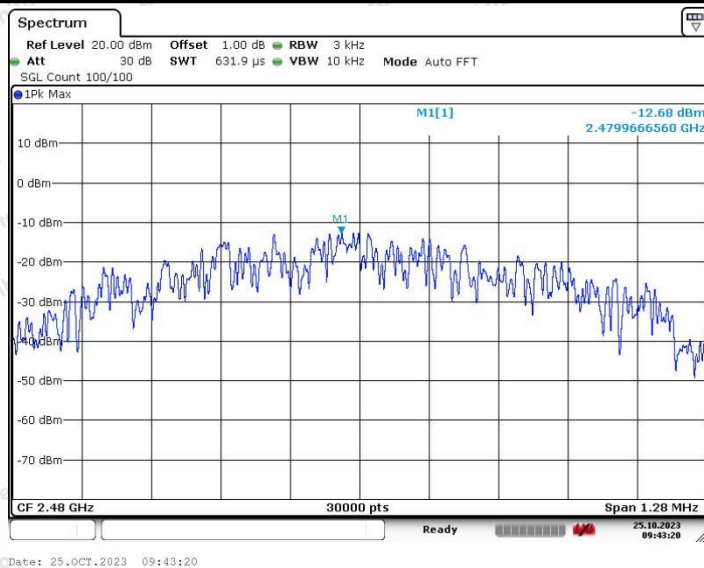
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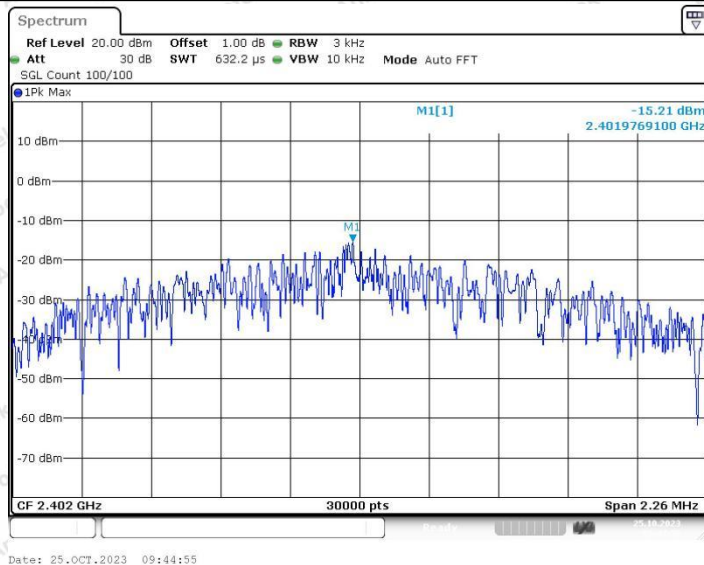


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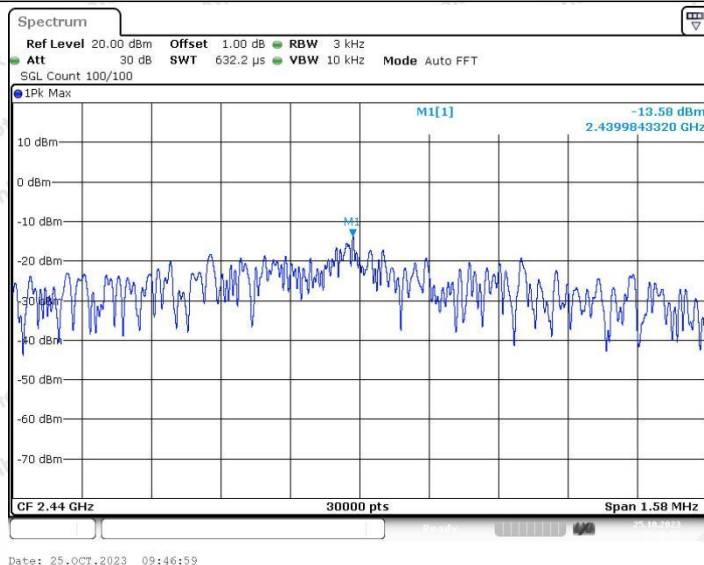




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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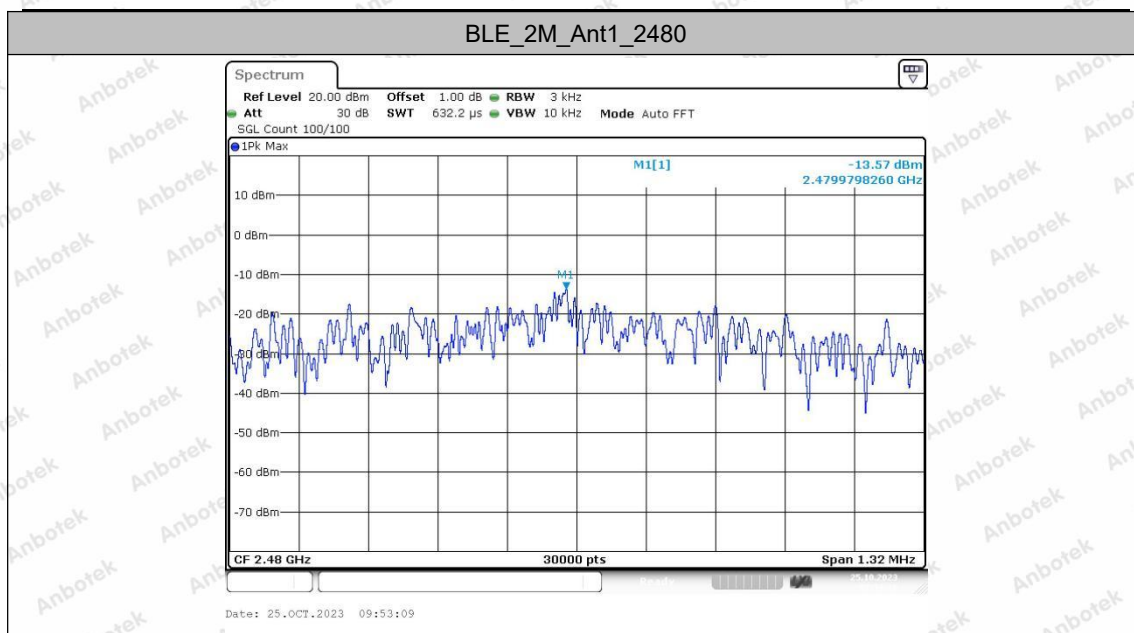


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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.30	-57.87	≤-17.7	PASS
		High	2480	2.60	-56.84	≤-17.4	PASS
BLE_2M	Ant1	Low	2402	2.30	-30.35	≤-17.7	PASS
		High	2480	3.26	-57.12	≤-16.74	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	-0.71	-0.71	---	PASS
			30~1000	-0.71	-67.14	≤-20.71	PASS
			1000~26500	-0.71	-31.31	≤-20.71	PASS
		2440	Reference	2.67	2.67	---	PASS
			30~1000	2.67	-68.03	≤-17.33	PASS
			1000~26500	2.67	-27.99	≤-17.33	PASS
		2480	Reference	1.94	1.94	---	PASS
			30~1000	1.94	-68.26	≤-18.06	PASS
			1000~26500	1.94	-31.39	≤-18.06	PASS
BLE_2M	Ant1	2402	Reference	2.42	2.42	---	PASS
			30~1000	2.42	-68.6	≤-17.58	PASS
			1000~26500	2.42	-32.89	≤-17.58	PASS
		2440	Reference	2.91	2.91	---	PASS
			30~1000	2.91	-68.39	≤-17.09	PASS
			1000~26500	2.91	-28.63	≤-17.09	PASS
		2480	Reference	3.26	3.26	---	PASS
			30~1000	3.26	-68.39	≤-16.74	PASS
			1000~26500	3.26	-32.01	≤-16.74	PASS

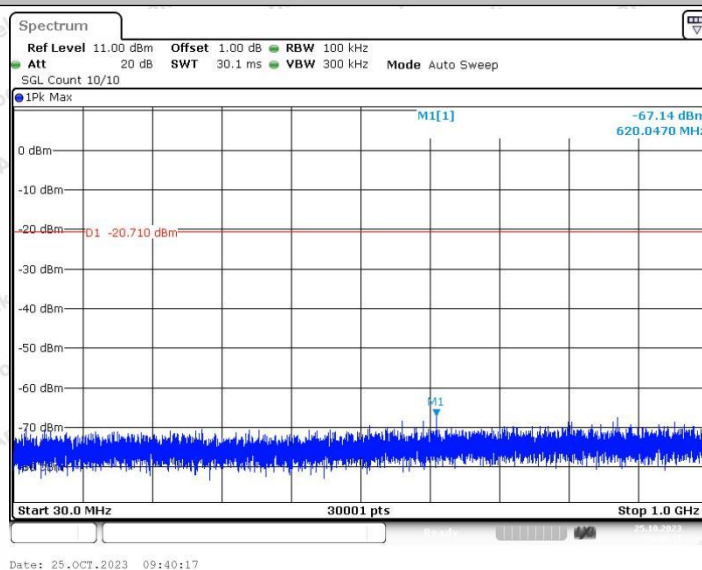


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

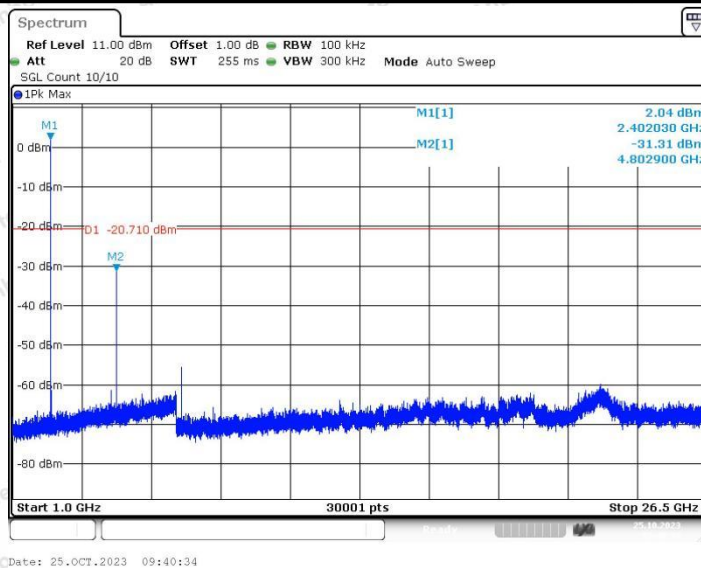
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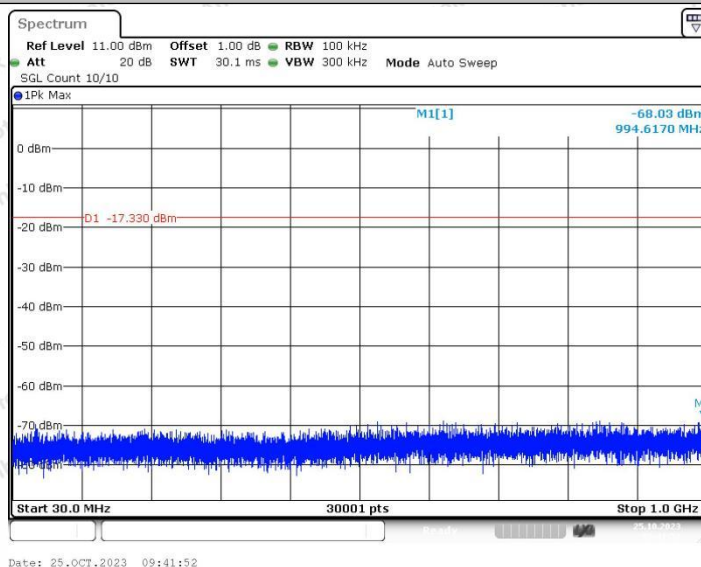




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

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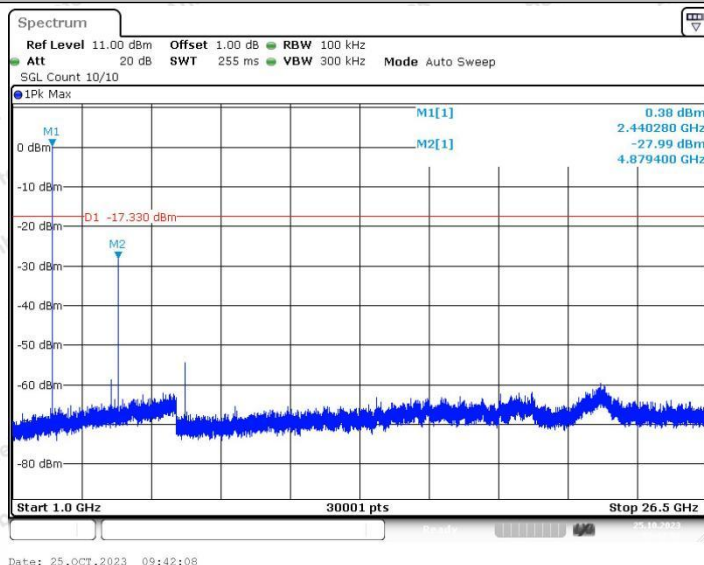
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

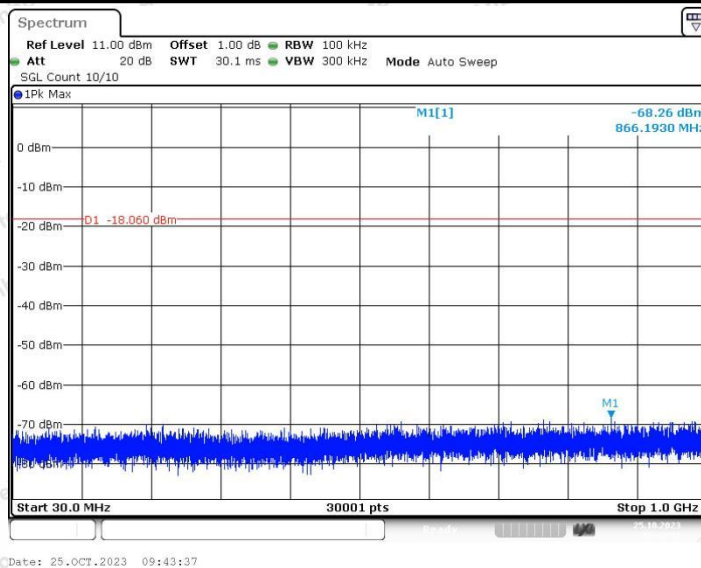
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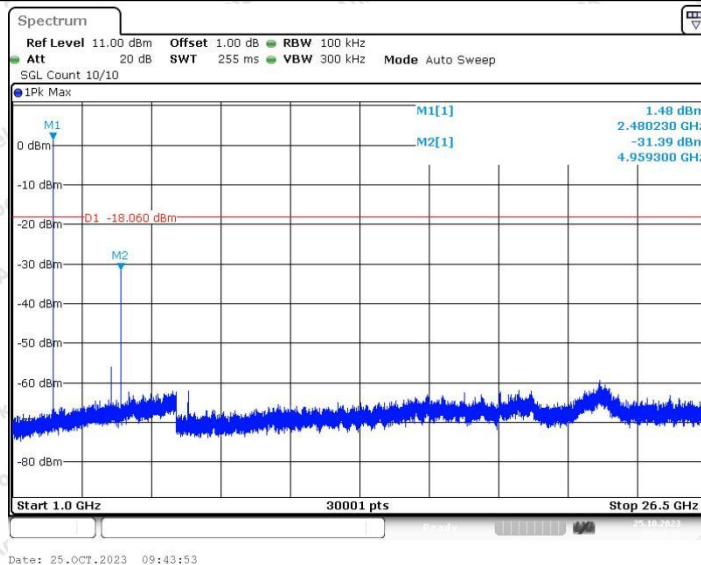


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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



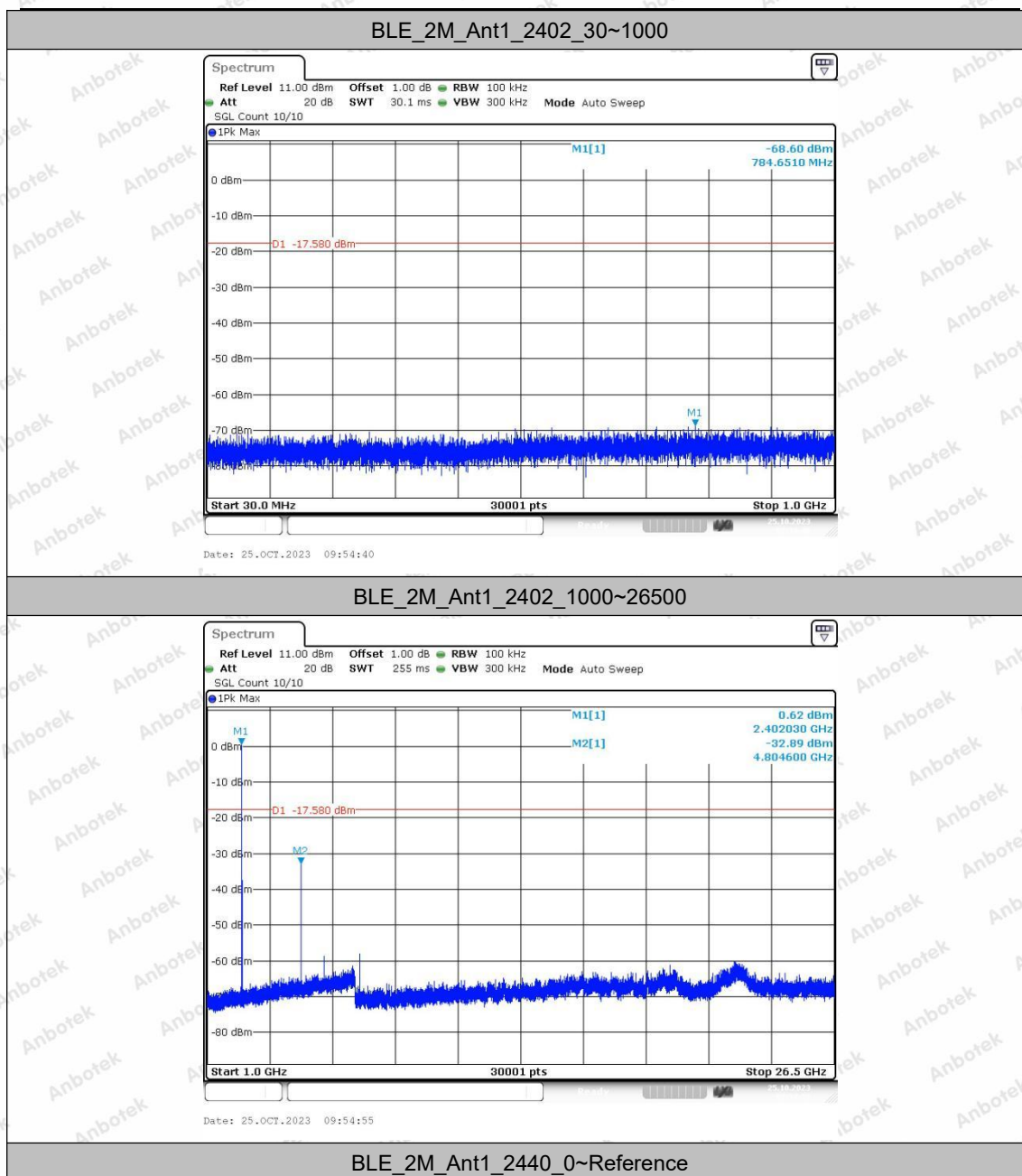
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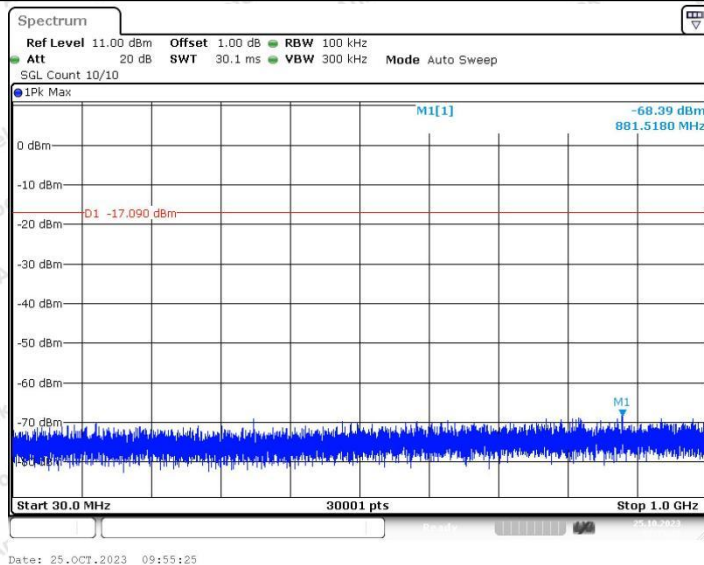


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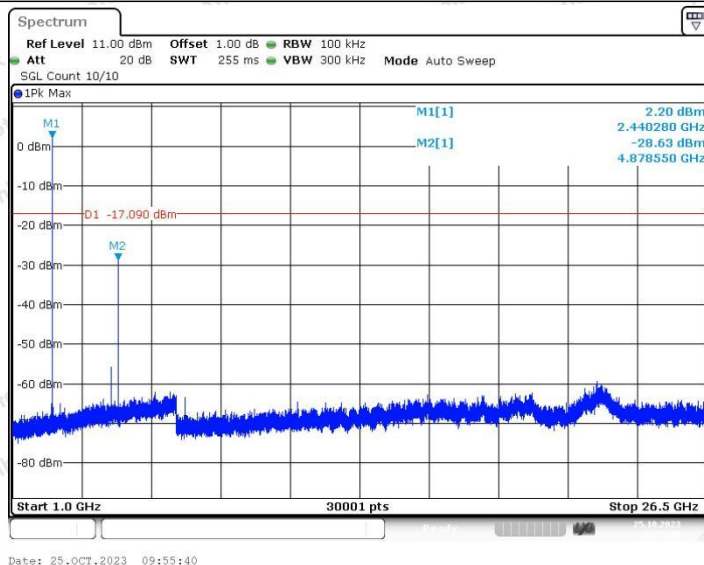




BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



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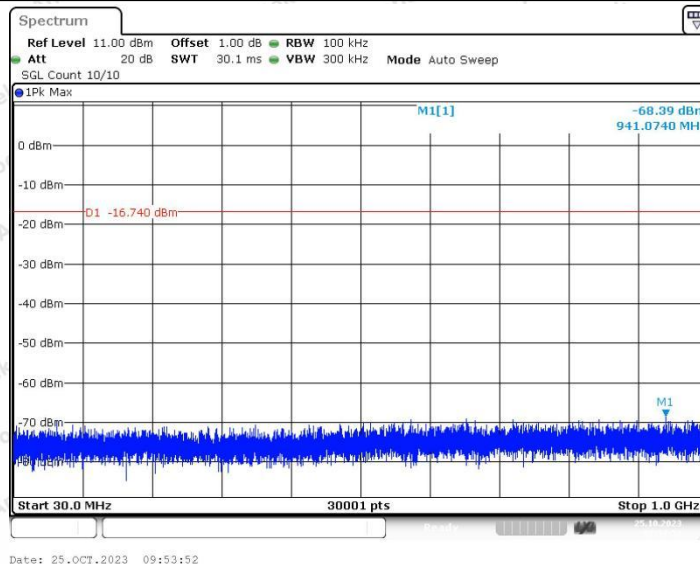
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500

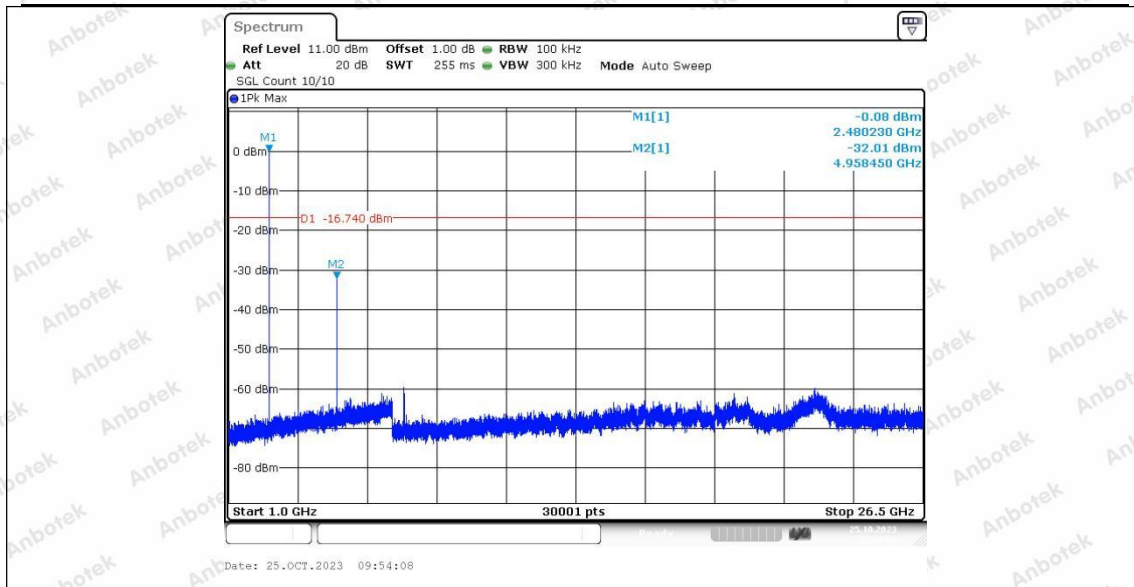
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Appendix G: Duty Cycle

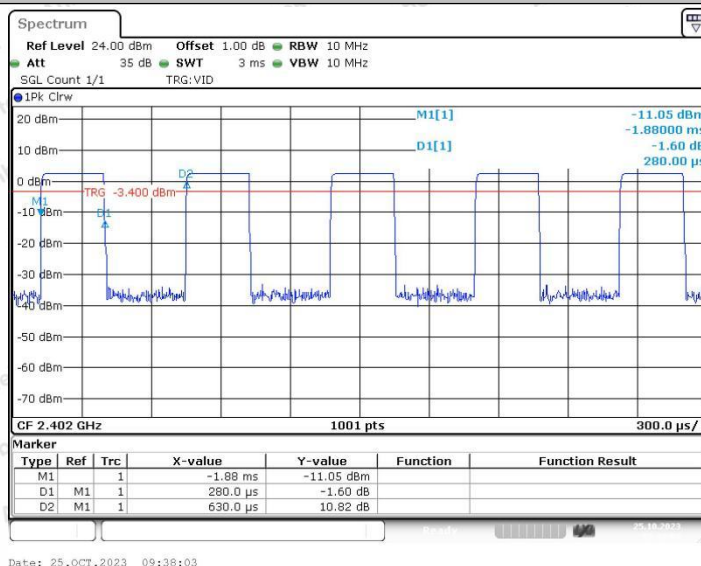
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.28	0.63	44.44	3.52
		2440	0.28	0.63	44.44	3.52
		2480	0.28	0.63	44.44	3.52
BLE_2M	Ant1	2402	0.17	0.63	26.98	5.69
		2440	0.17	0.63	26.98	5.69
		2480	0.16	0.63	25.40	5.95

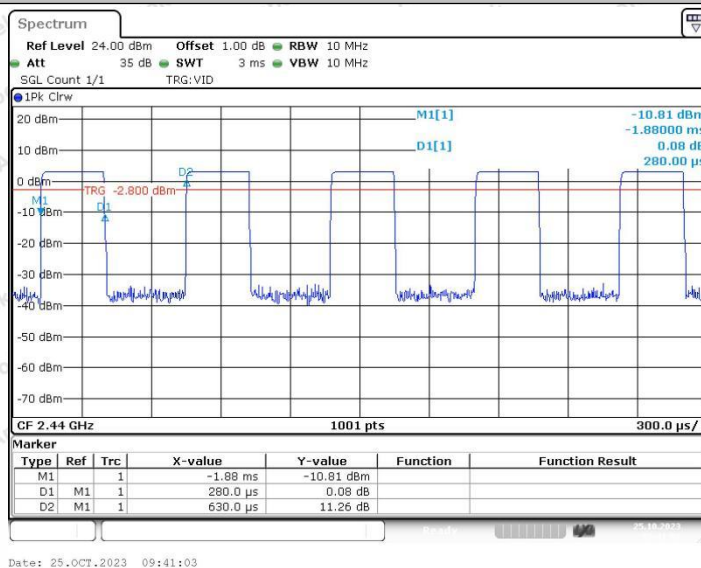


Test Graphs

BLE_1M_Ant1_2402

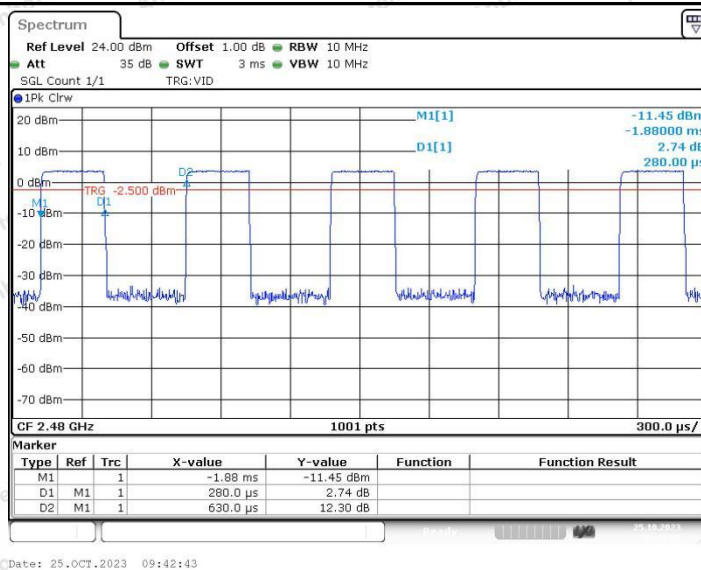


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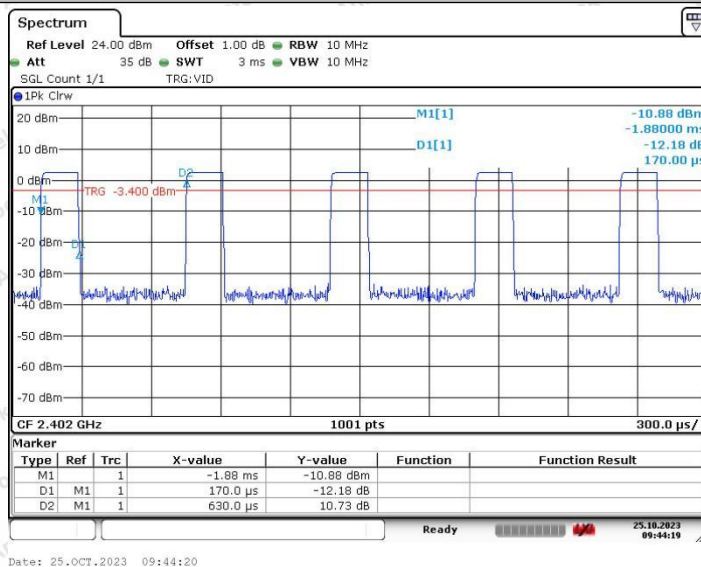


BLE_1M_Ant1_2480

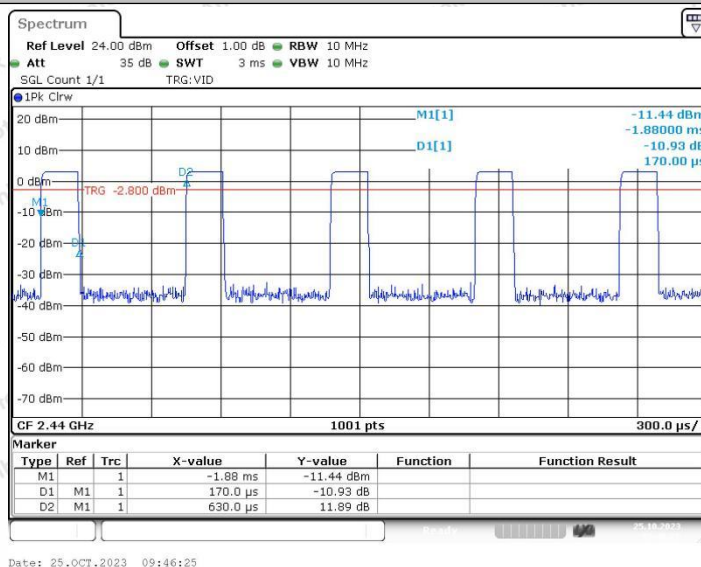




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



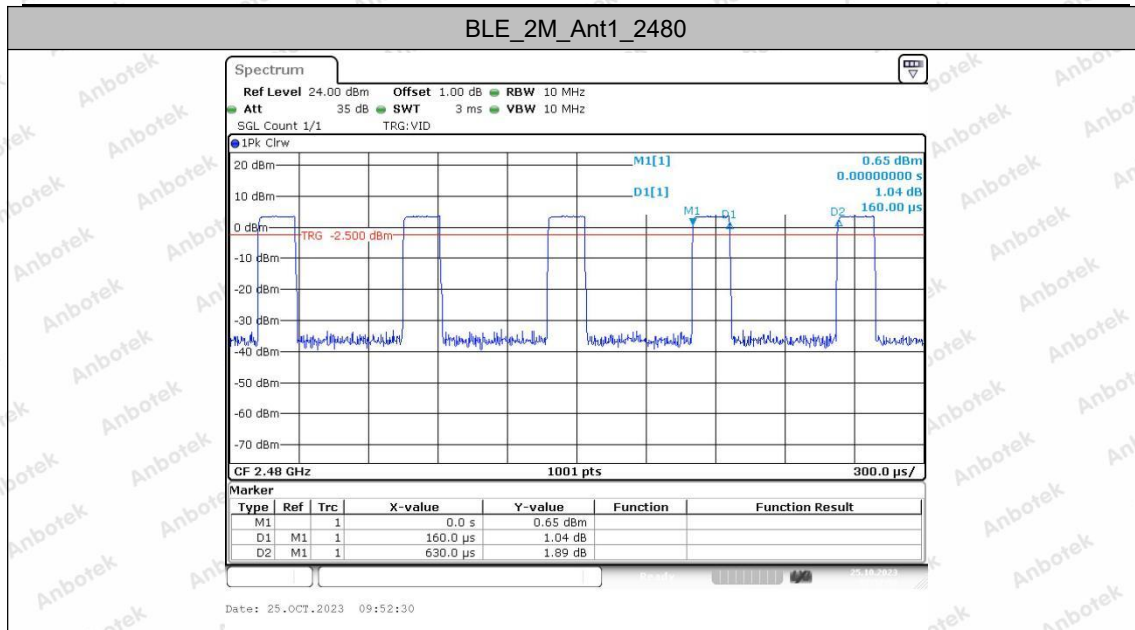
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