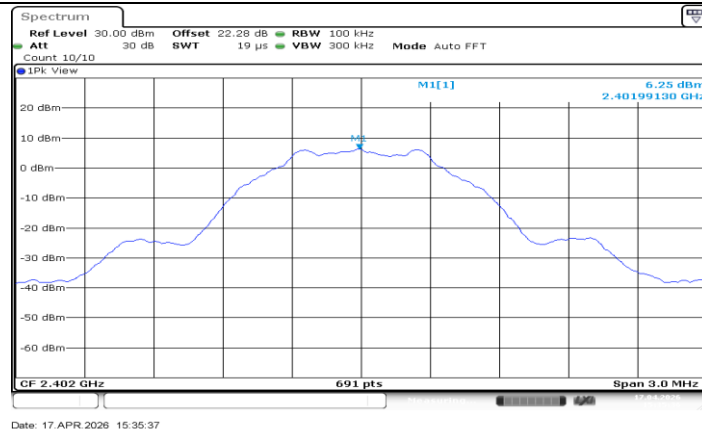
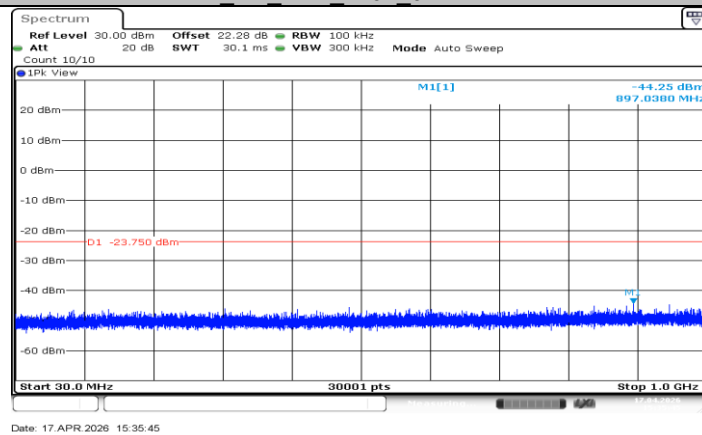


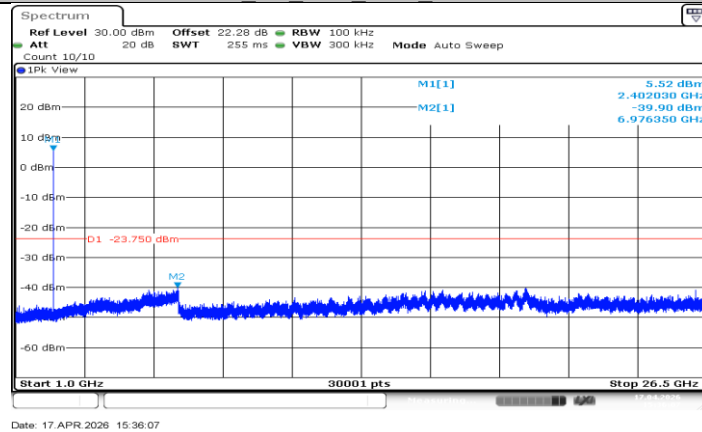
11.6.2. Test Graphs



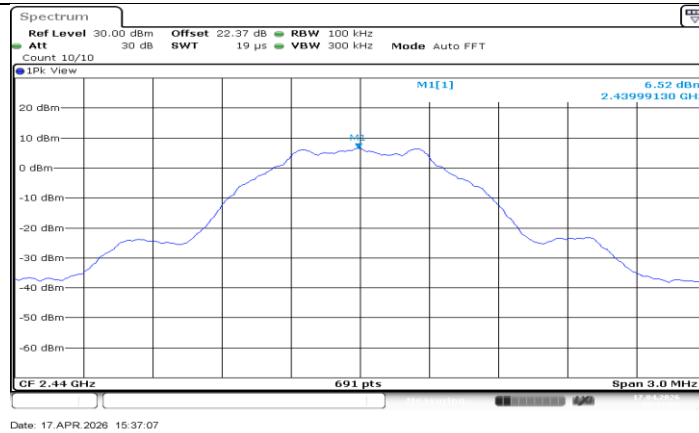
BLE_1M_Ant1_2402_0~Reference



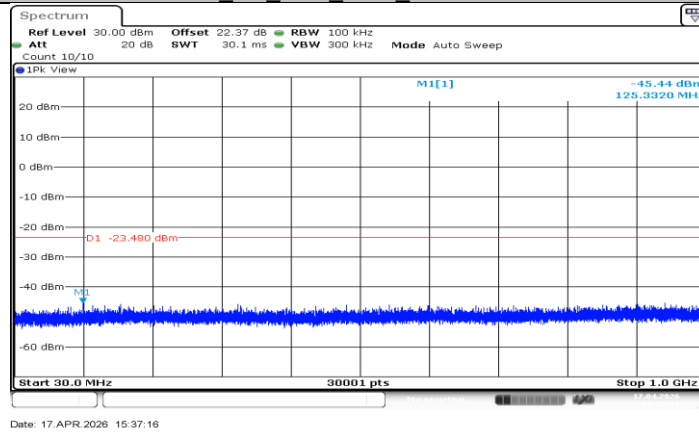
BLE_1M_Ant1_2402_30~1000



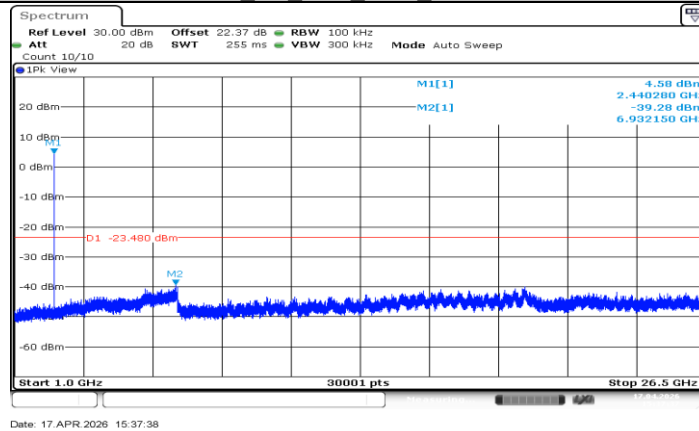
BLE_1M_Ant1_2402_1000~26500



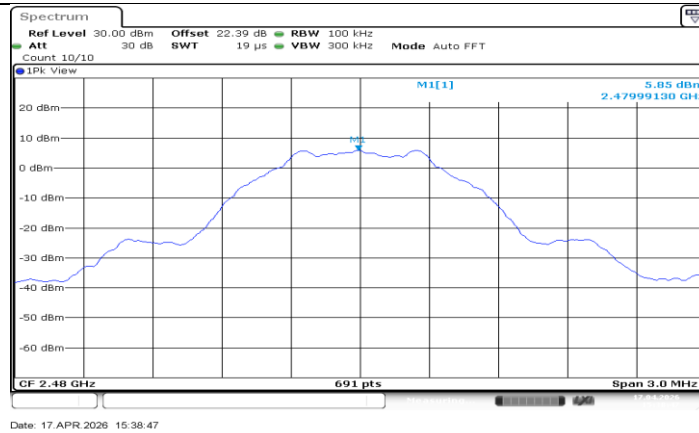
BLE 1M Ant1 2440 0~Reference



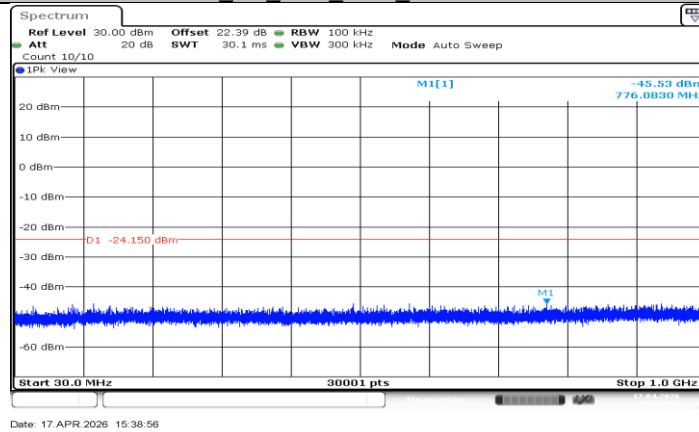
BLE 1M Ant1 2440 30~1000



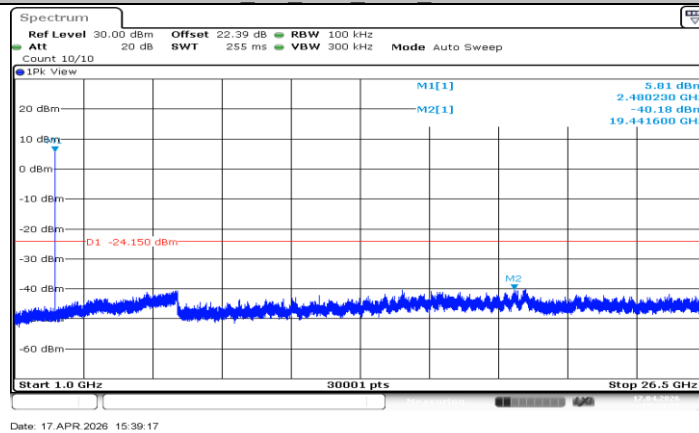
BLE 1M Ant1 2440 1000~26500



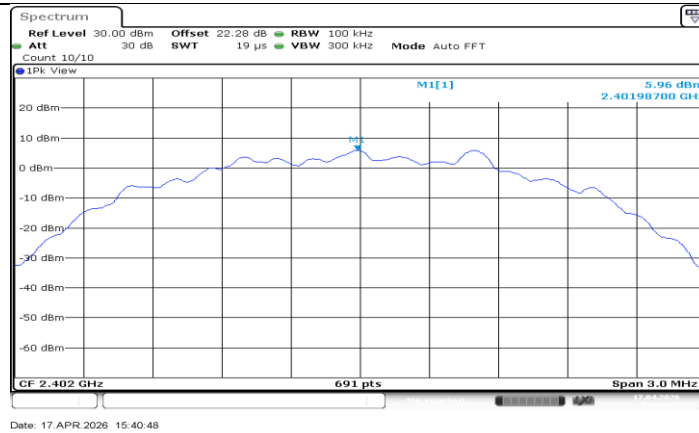
BLE 1M Ant1 2480 0~Reference



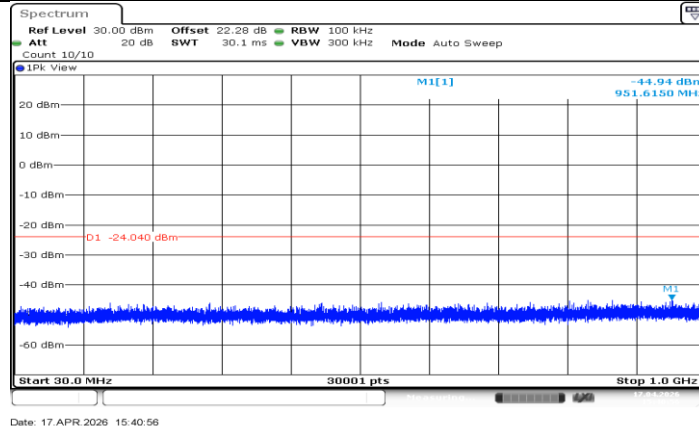
BLE 1M Ant1 2480 30~1000



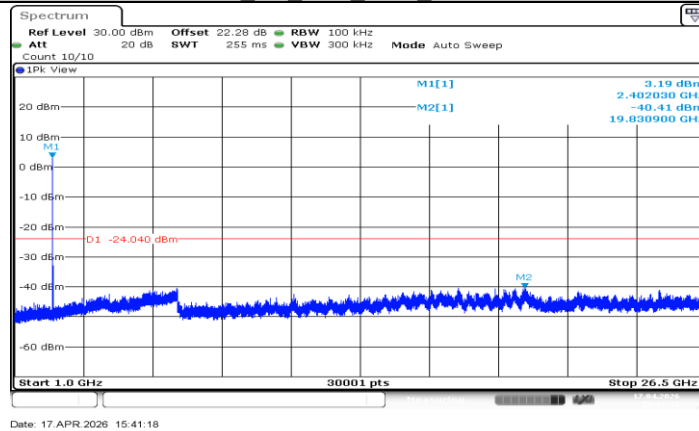
BLE 1M Ant1 2480 1000~26500



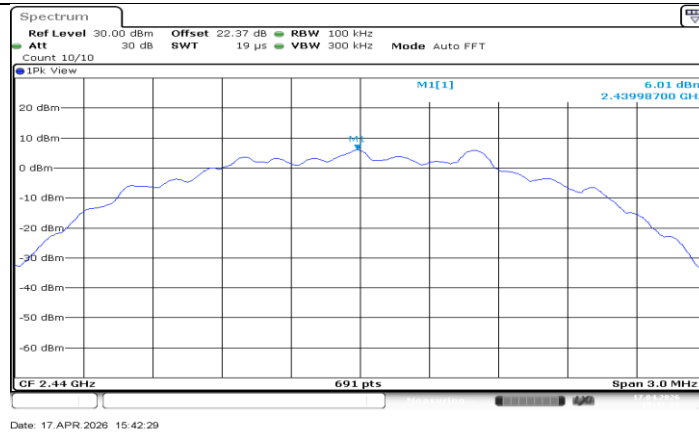
BLE 2M Ant1 2402_0~Reference



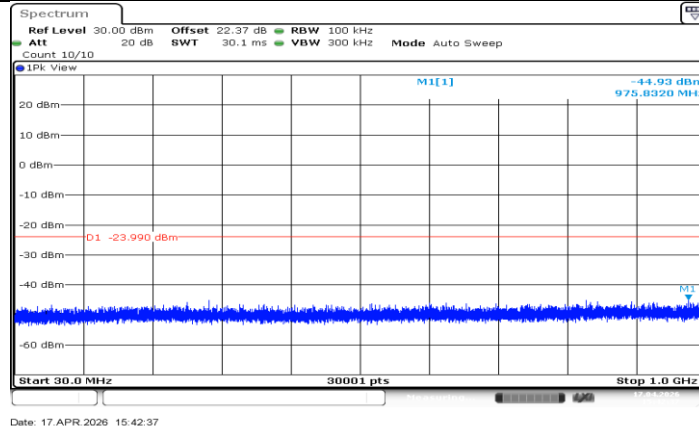
BLE 2M Ant1 2402_30~1000



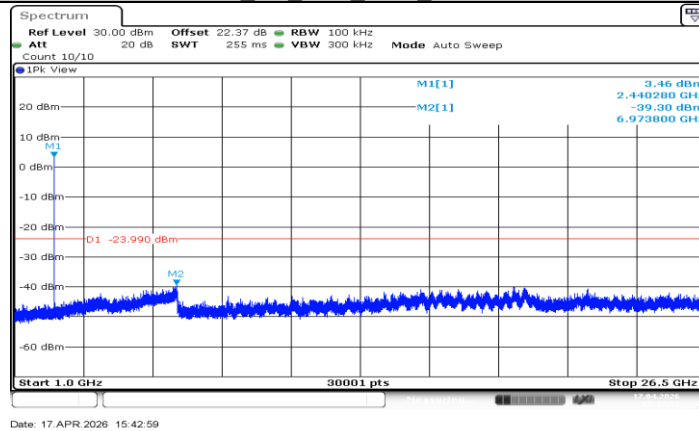
BLE 2M Ant1 2402_1000~26500



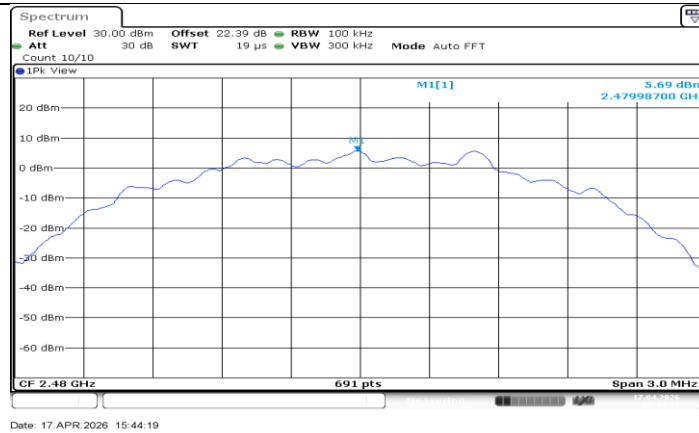
BLE 2M Ant1 2440 0~Reference



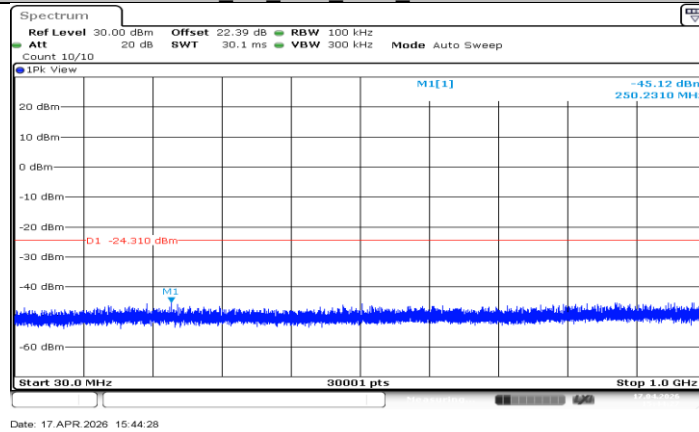
BLE 2M Ant1 2440 30~1000



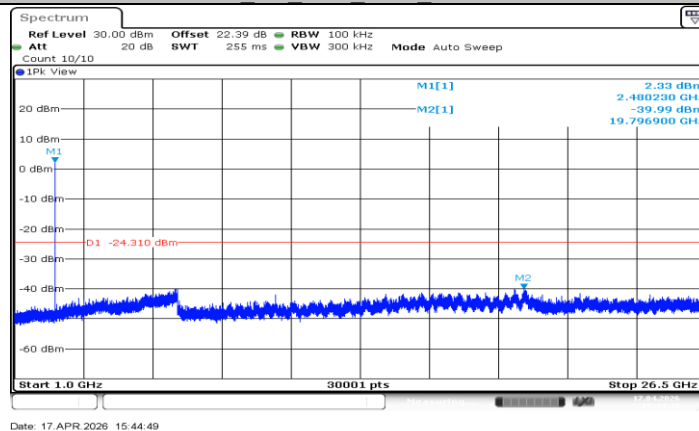
BLE 2M Ant1 2440 1000~26500



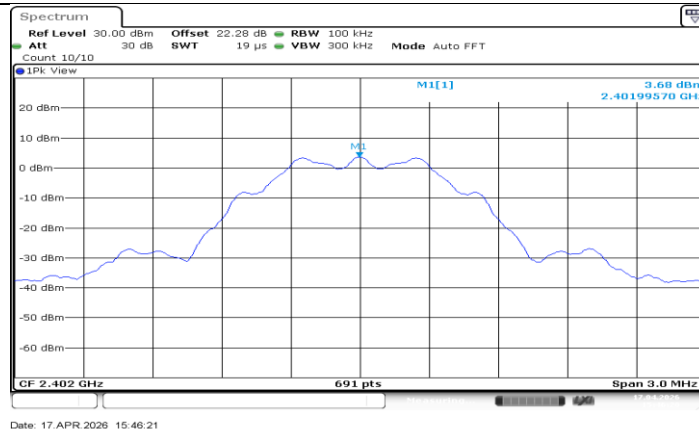
BLE 2M Ant1 2480 0~Reference



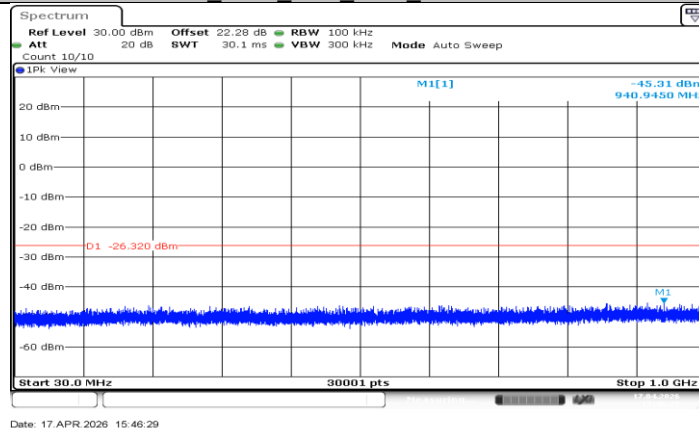
BLE 2M Ant1 2480 30~1000



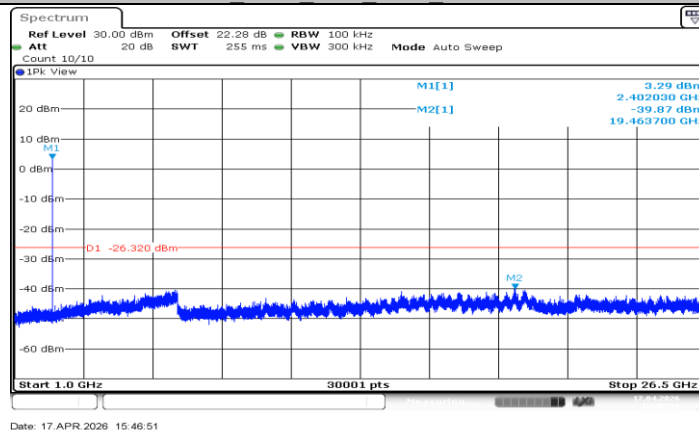
BLE 2M Ant1 2480 1000~26500



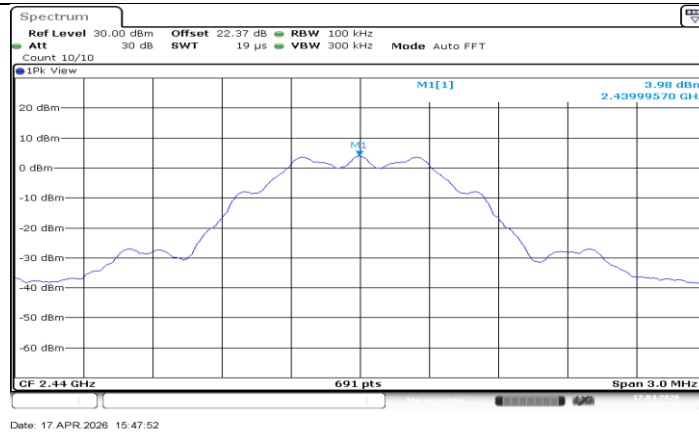
BLE_125K Ant1_2402_0~Reference



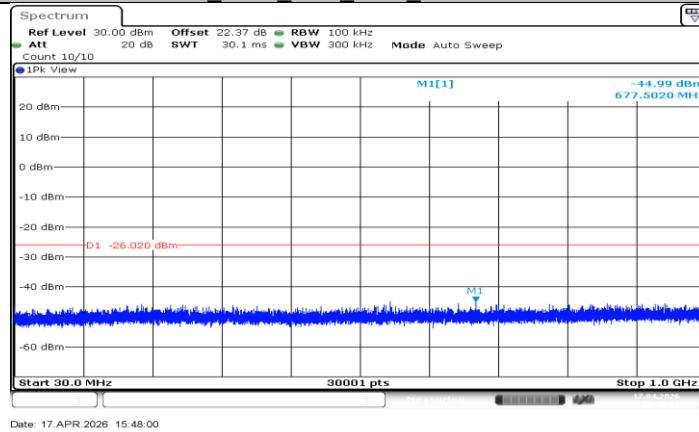
BLE_125K Ant1_2402_30~1000



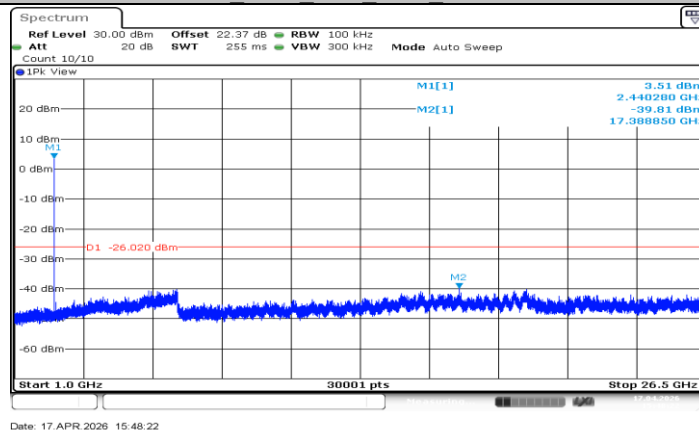
BLE_125K Ant1_2402_1000~26500



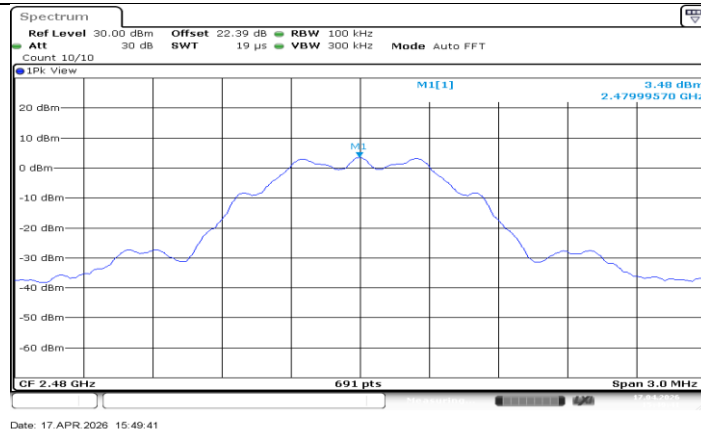
BLE_125K Ant1_2440 0~Reference



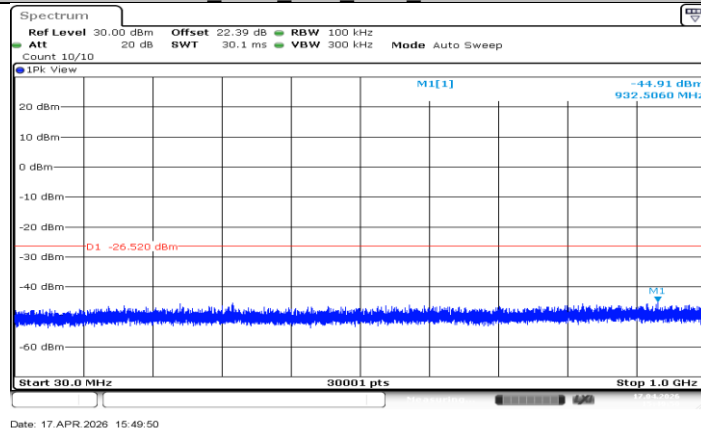
BLE_125K Ant1_2440 30~1000



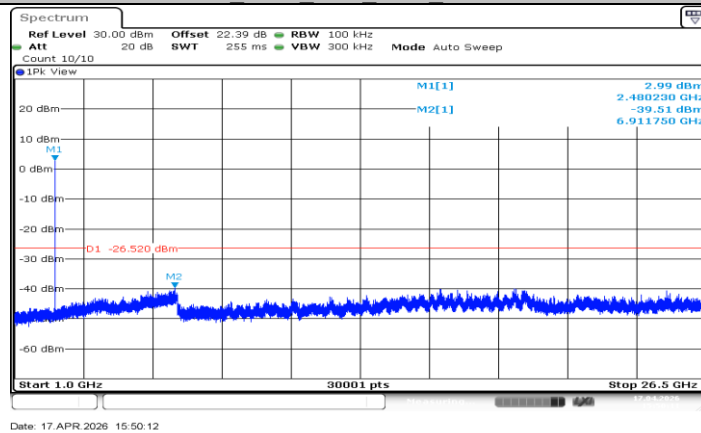
BLE_125K Ant1_2440 1000~26500



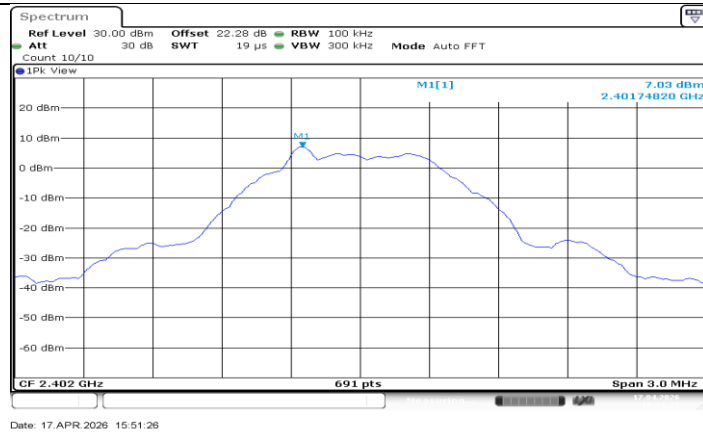
BLE_125K_Ant1_2480_0~Reference



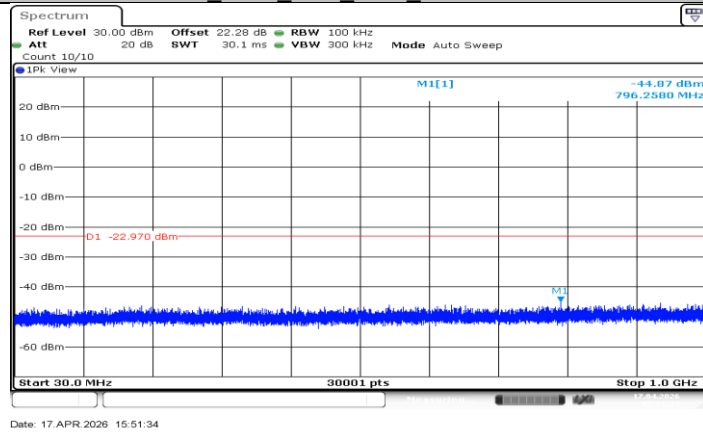
BLE_125K_Ant1_2480_30~1000



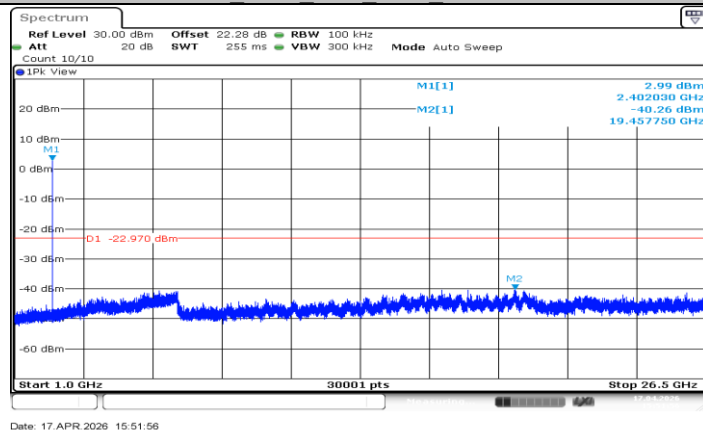
BLE_125K_Ant1_2480_1000~26500



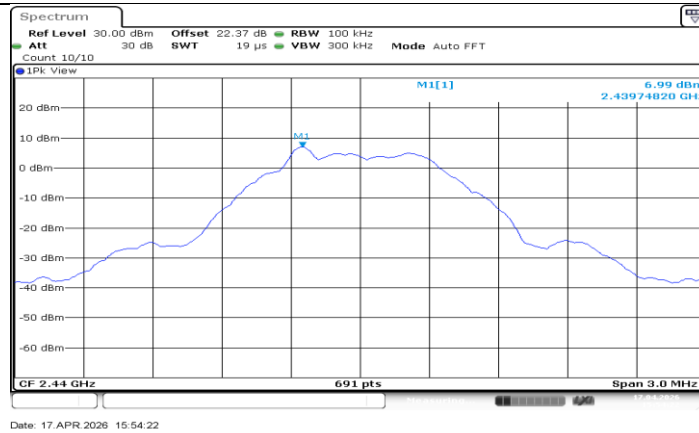
BLE_500K_Ant1_2402_0~Reference



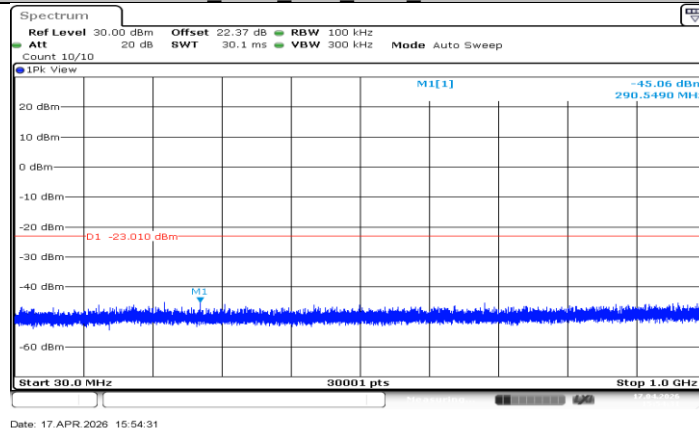
BLE_500K_Ant1_2402_30~1000



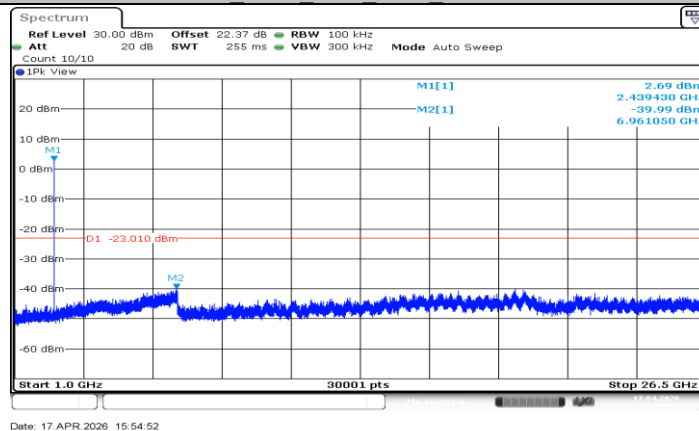
BLE_500K_Ant1_2402_1000~26500



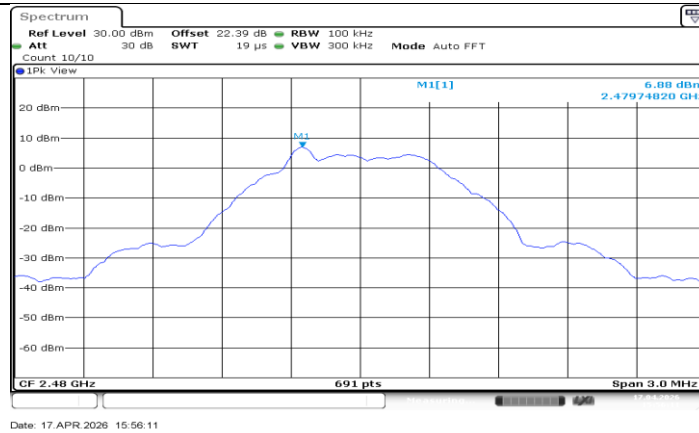
BLE_500K_Ant1_2440_0~Reference



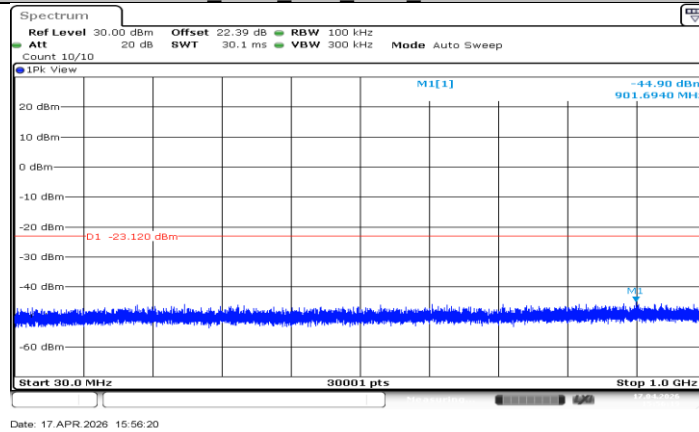
BLE_500K_Ant1_2440_30~1000



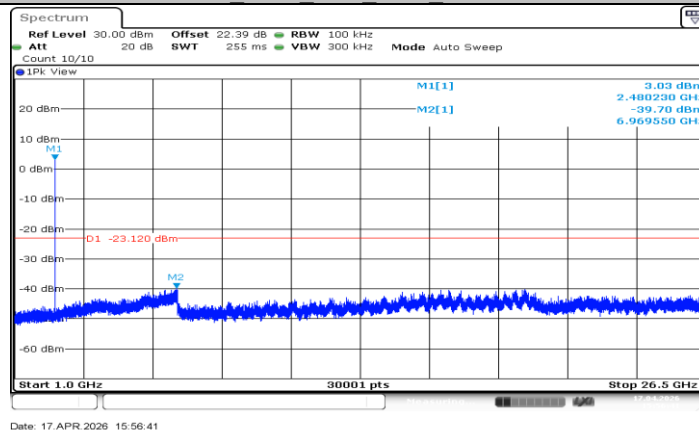
BLE_500K_Ant1_2440_1000~26500



BLE_500K Ant1_2480_0~Reference



BLE_500K Ant1_2480_30~1000



BLE_500K Ant1_2480_1000~26500

11.7. APPENDIX G: DUTY CYCLE

11.7.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
BLE_1M	0.38	0.62	0.6129	61.29	2.13	2.63	3
BLE_2M	1.07	1.87	0.5722	57.22	2.42	0.93	1
BLE_125K	0.73	1.25	0.5840	58.40	2.34	1.37	2
BLE_500K	0.47	1.25	0.3760	37.60	4.25	2.13	3

Note:

Duty Cycle Correction Factor= $10\log(1/x)$.

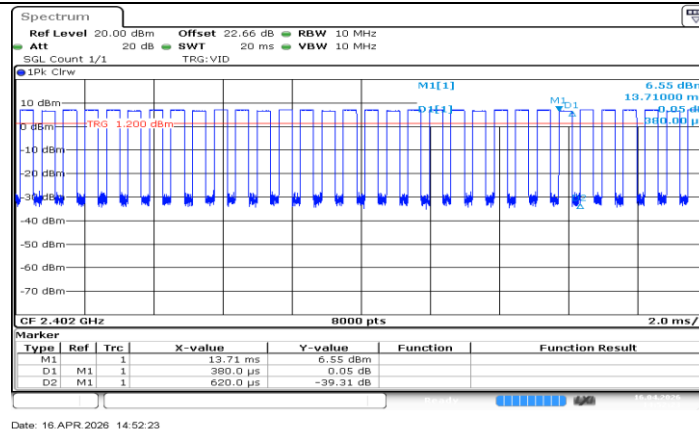
Where: x is Duty Cycle (Linear)

Where: T is On Time

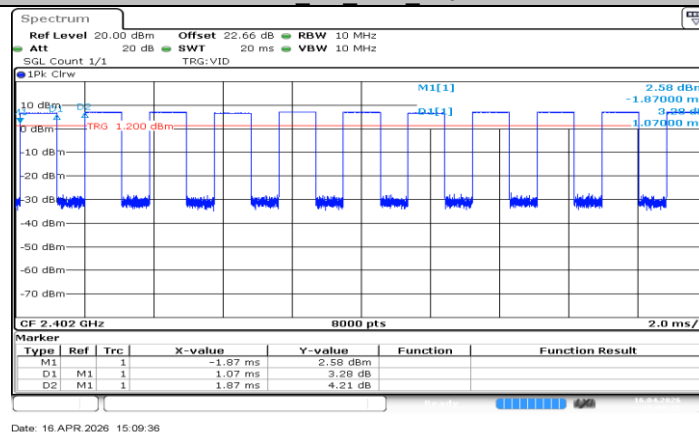
If that calculated VBW is not available on the analyzer then the next higher value should be used.



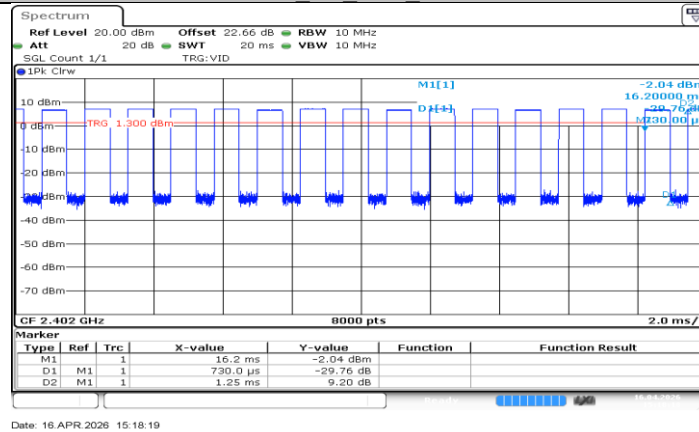
11.7.2. Test Graphs



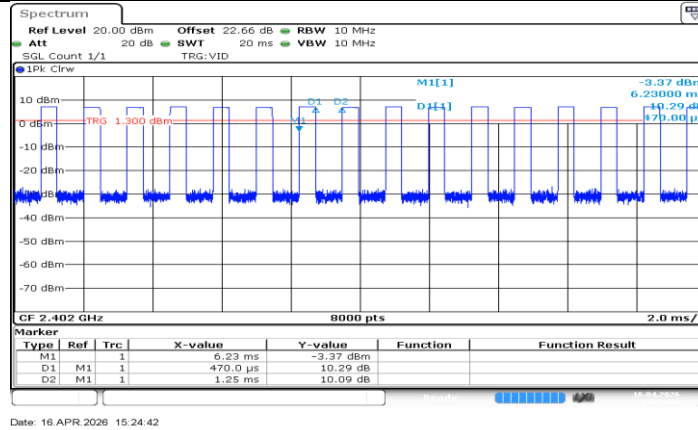
BLE 1M_Ant1_2402



BLE 2M_Ant1_2402



BLE 125K_Ant1_2402



BLE_500K_Ant1_2402

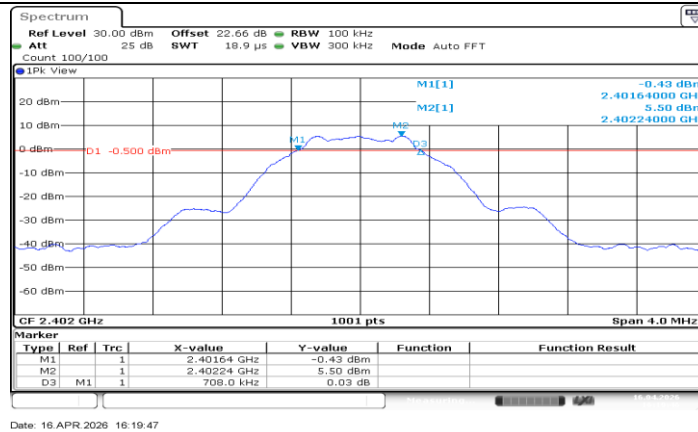
12. TEST DATA OF BT1

12.1. APPENDIX A: DTS BANDWIDTH

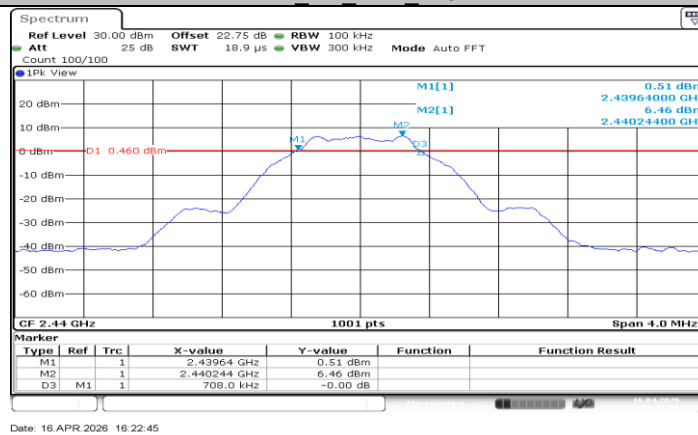
12.1.1. Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.71	2401.64	2402.35	≥ 0.5	PASS
		2440	0.71	2439.64	2440.35	≥ 0.5	PASS
		2480	0.71	2479.64	2480.35	≥ 0.5	PASS
BLE_2M	Ant1	2402	1.18	2401.41	2402.58	≥ 0.5	PASS
		2440	1.17	2439.41	2440.58	≥ 0.5	PASS
		2480	1.18	2479.40	2480.58	≥ 0.5	PASS
BLE_125K	Ant1	2402	0.69	2401.65	2402.34	≥ 0.5	PASS
		2440	0.69	2439.65	2440.34	≥ 0.5	PASS
		2480	0.69	2479.65	2480.34	≥ 0.5	PASS
BLE_500K	Ant1	2402	0.66	2401.67	2402.33	≥ 0.5	PASS
		2440	0.66	2439.67	2440.33	≥ 0.5	PASS
		2480	0.66	2479.67	2480.33	≥ 0.5	PASS

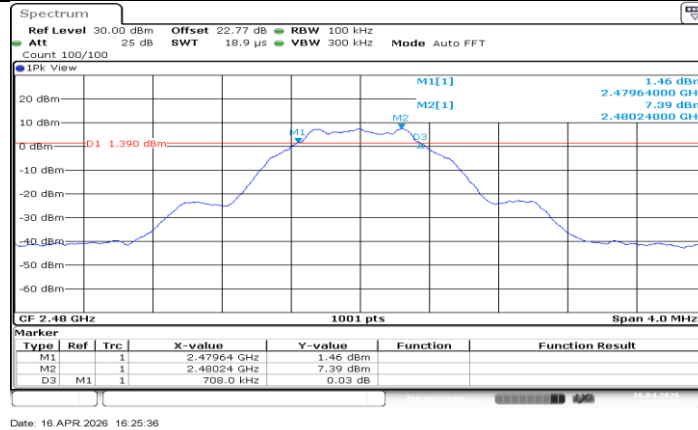
12.1.2. Test Graphs



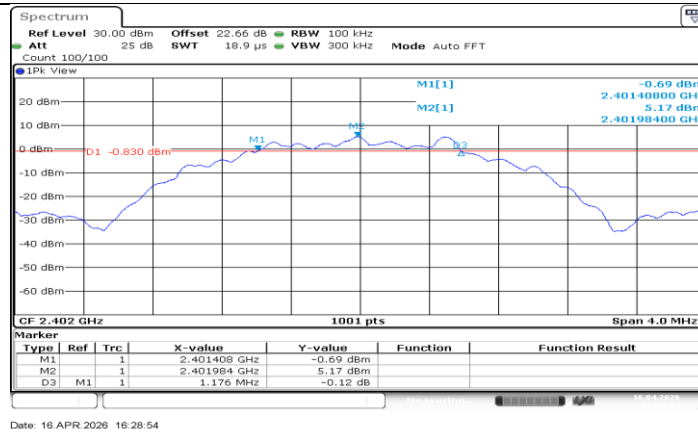
BLE 1M Ant1 2402



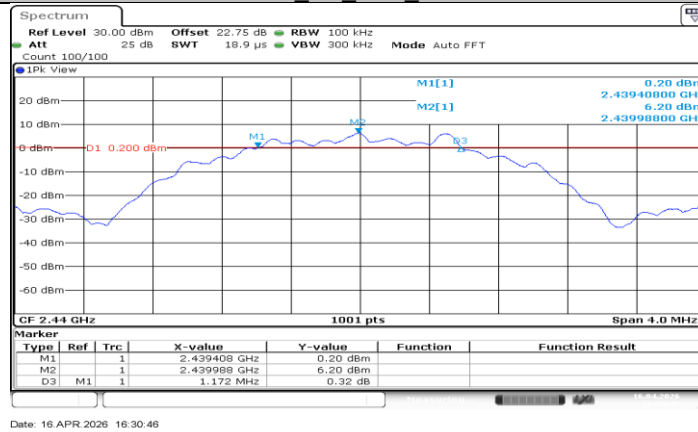
BLE 1M Ant1 2440



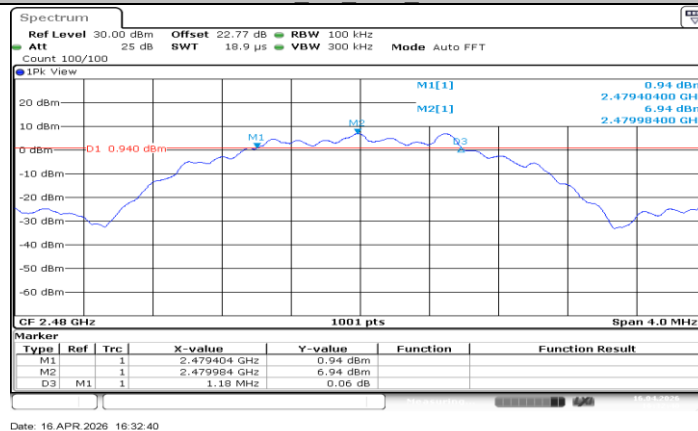
BLE 1M Ant1 2480



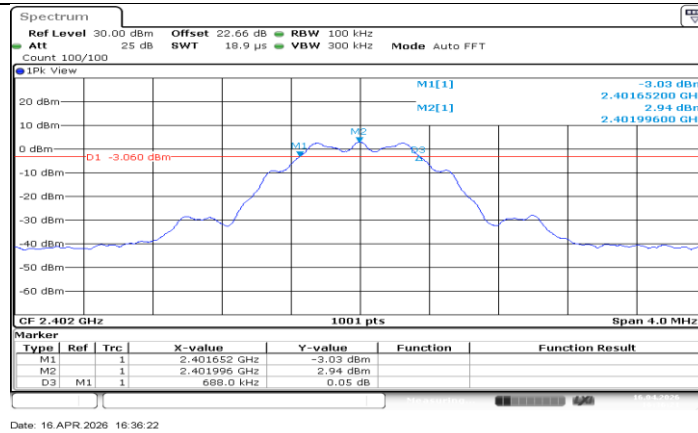
BLE 2M Ant1 2402



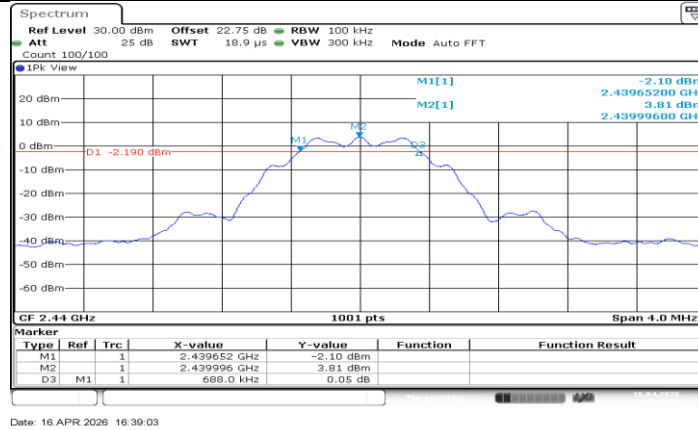
BLE 2M Ant1 2440



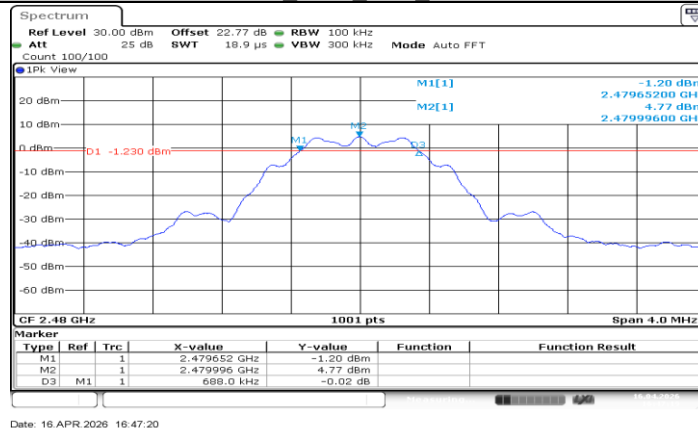
BLE 2M Ant1 2480



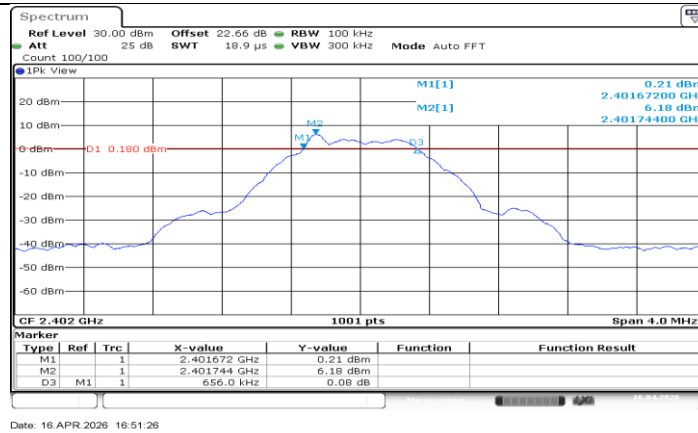
BLE 125K Ant1_2402



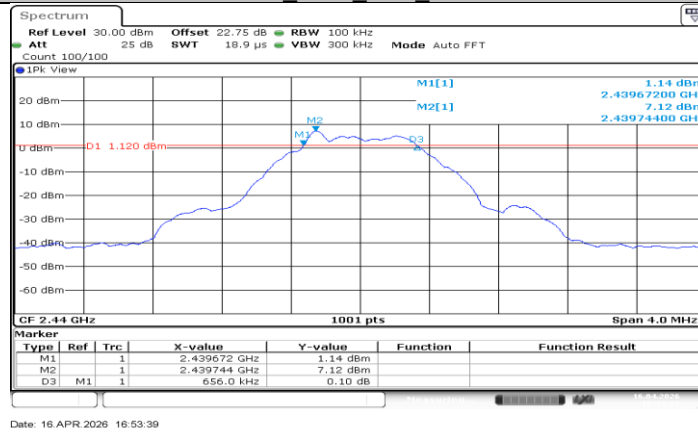
BLE 125K Ant1_2440



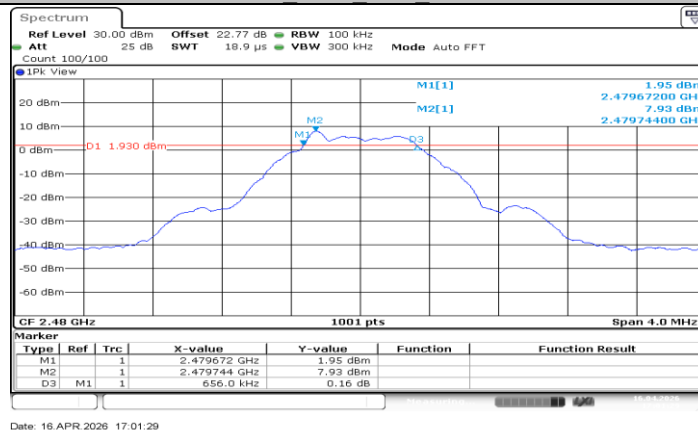
BLE 125K Ant1_2480



BLE 500K Ant1 2402



BLE 500K Ant1 2440



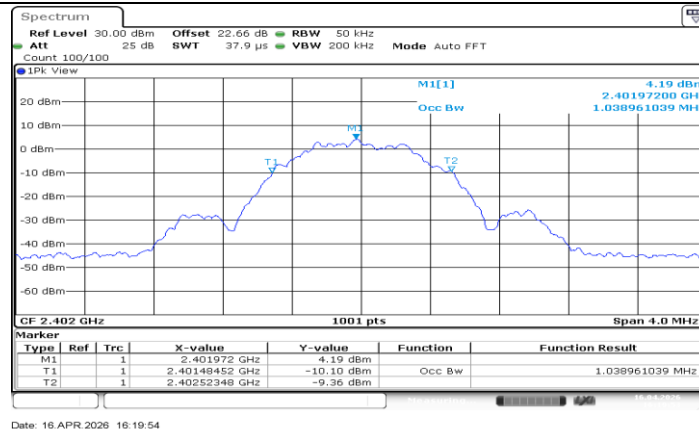
BLE 500K Ant1 2480

12.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH

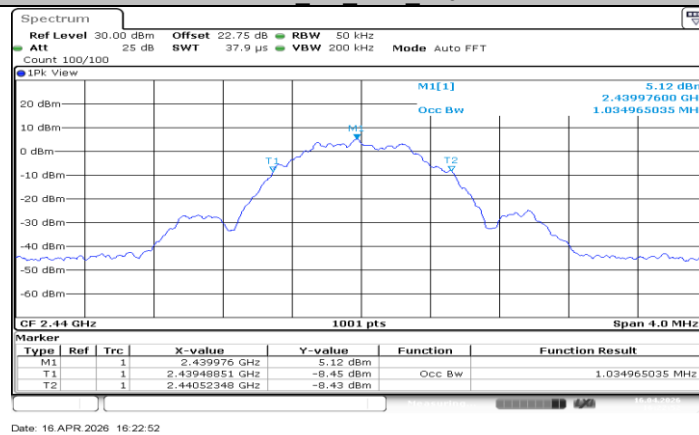
12.2.1. Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
BLE_1M	Ant1	2402	1.0390	2401.4845	2402.5235	PASS
		2440	1.0350	2439.4885	2440.5235	PASS
		2480	1.0350	2479.4885	2480.5235	PASS
BLE_2M	Ant1	2402	2.0579	2400.9850	2403.0430	PASS
		2440	2.0579	2438.9850	2441.0430	PASS
		2480	2.0579	2478.9850	2481.0430	PASS
BLE_125K	Ant1	2402	1.0470	2401.4725	2402.5195	PASS
		2440	1.0470	2439.4725	2440.5195	PASS
		2480	1.0470	2479.4725	2480.5195	PASS
BLE_500K	Ant1	2402	1.0190	2401.4885	2402.5075	PASS
		2440	1.0190	2439.4885	2440.5075	PASS
		2480	1.0190	2479.4885	2480.5075	PASS

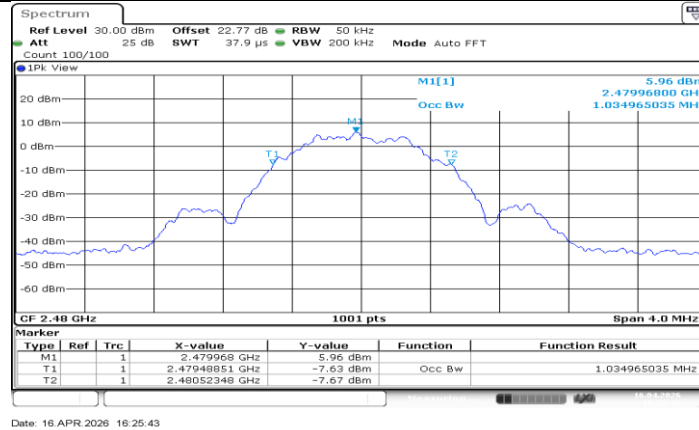
12.2.2. Test Graphs



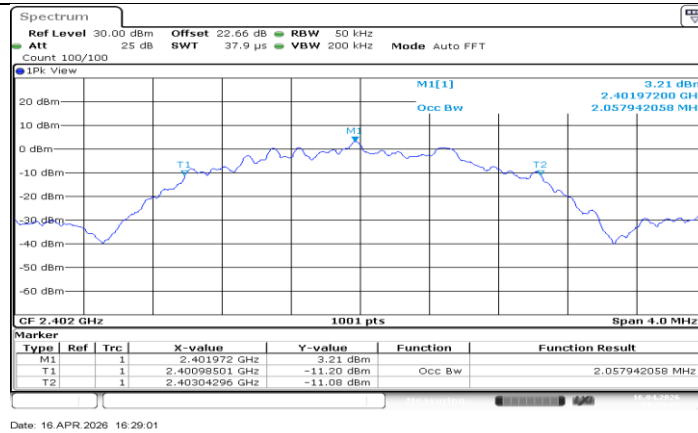
BLE 1M Ant1 2402



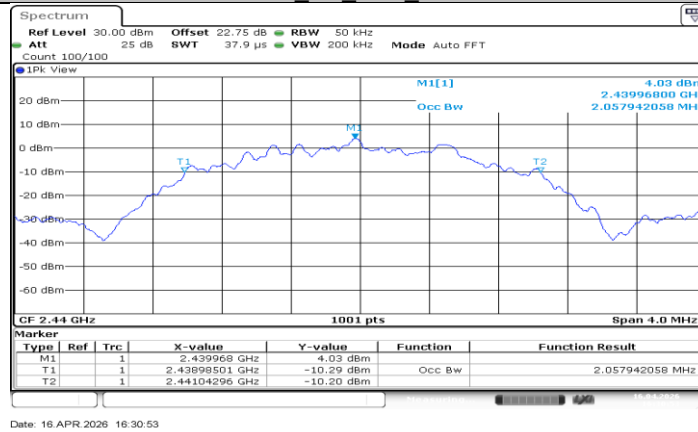
BLE 1M Ant1 2440



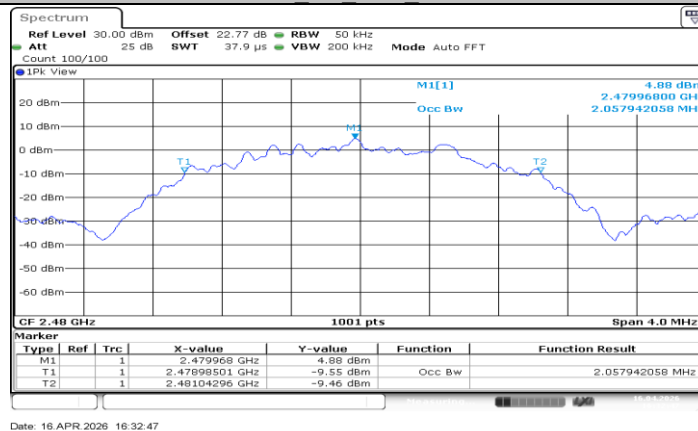
BLE 1M Ant1 2480



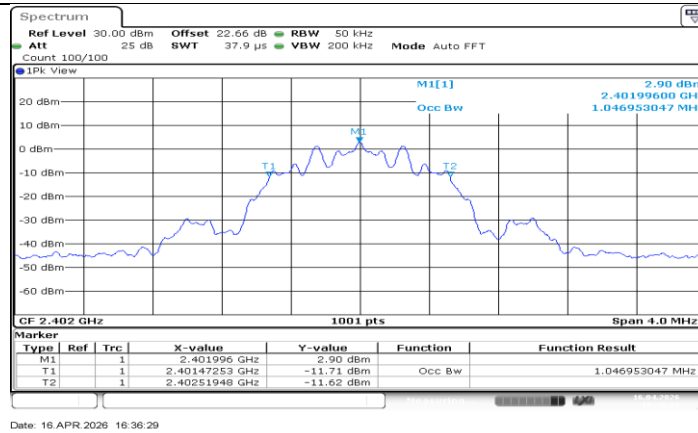
BLE 2M Ant1 2402



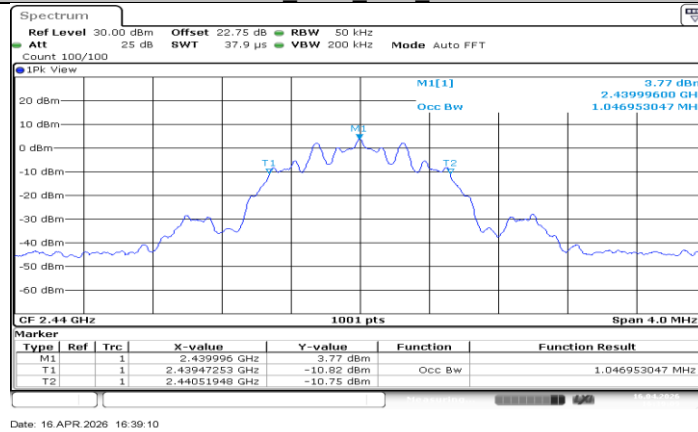
BLE 2M Ant1 2440



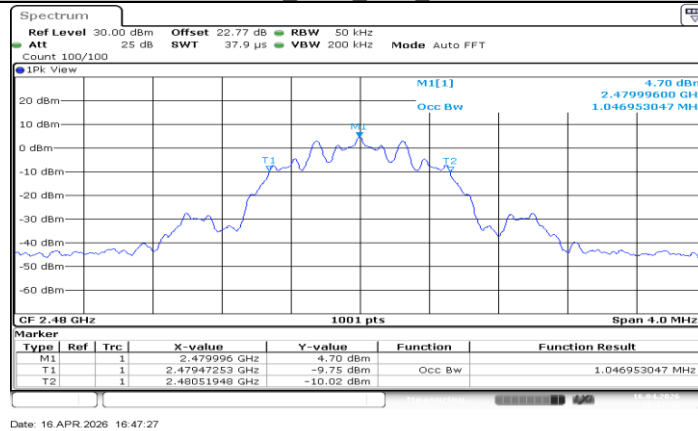
BLE 2M Ant1 2480



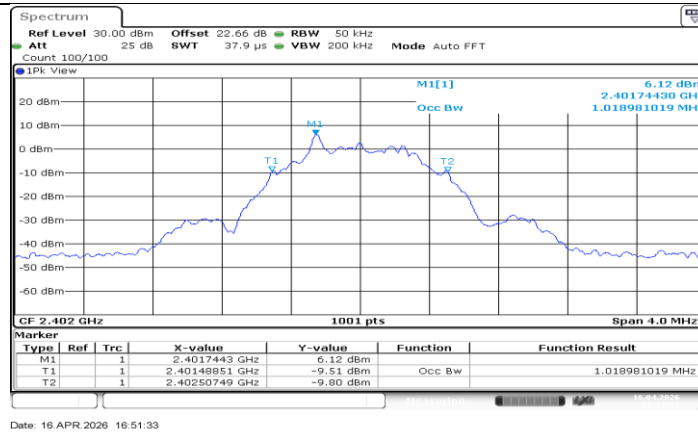
BLE 125K Ant1 2402



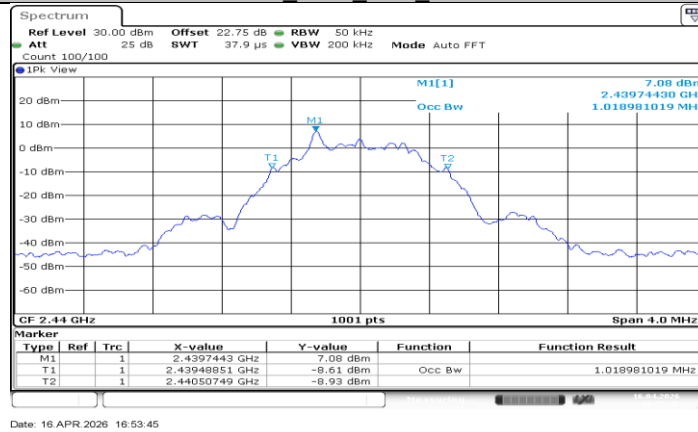
BLE 125K Ant1 2440



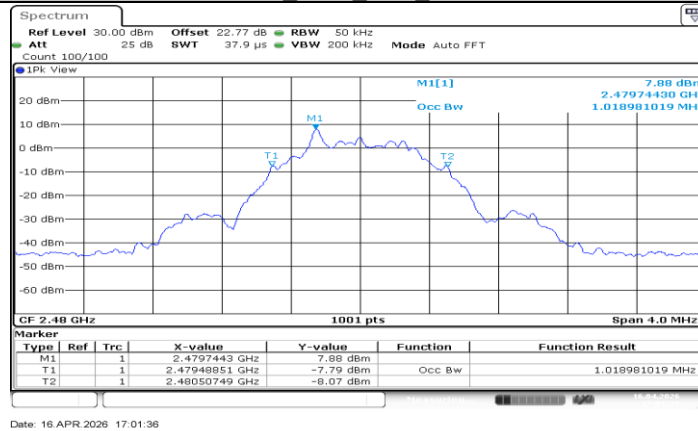
BLE 125K Ant1 2480



BLE 500K Ant1 2402



BLE 500K Ant1 2440



BLE 500K Ant1 2480

12.3. APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER

12.3.1. Test Result

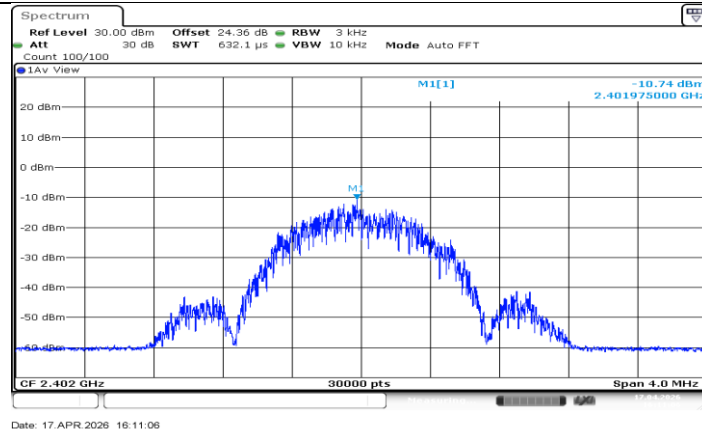
Test Mode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	6.08	≤30	PASS
		2440	7.03	≤30	PASS
		2480	8.26	≤30	PASS
BLE_2M	Ant1	2402	5.82	≤30	PASS
		2440	6.94	≤30	PASS
		2480	8.03	≤30	PASS
BLE_125K	Ant1	2402	6.29	≤30	PASS
		2440	6.92	≤30	PASS
		2480	8.09	≤30	PASS
BLE_500K	Ant1	2402	6.41	≤30	PASS
		2440	7.05	≤30	PASS
		2480	7.89	≤30	PASS

12.4. APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY

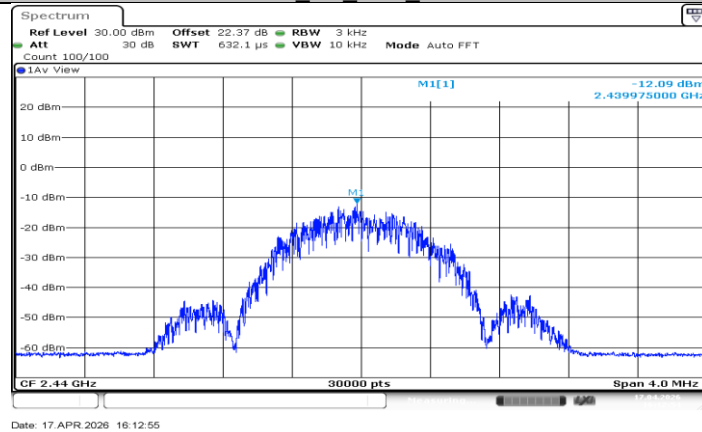
12.4.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.74	≤8.00	PASS
		2440	-12.09	≤8.00	PASS
		2480	-11.14	≤8.00	PASS
BLE_2M	Ant1	2402	-17.28	≤8.00	PASS
		2440	-19.07	≤8.00	PASS
		2480	-18.22	≤8.00	PASS
BLE_125K	Ant1	2402	-0.81	≤8.00	PASS
		2440	-2.06	≤8.00	PASS
		2480	-1.89	≤8.00	PASS
BLE_500K	Ant1	2402	-1.22	≤8.00	PASS
		2440	-5.01	≤8.00	PASS
		2480	-3.69	≤8.00	PASS

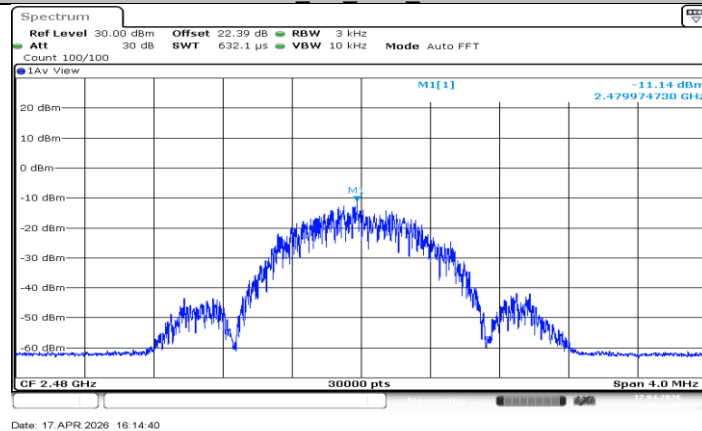
12.4.2. Test Graphs



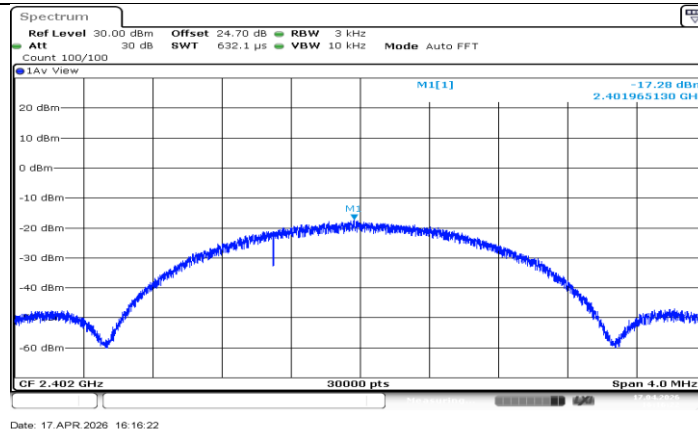
BLE 1M Ant1 2402



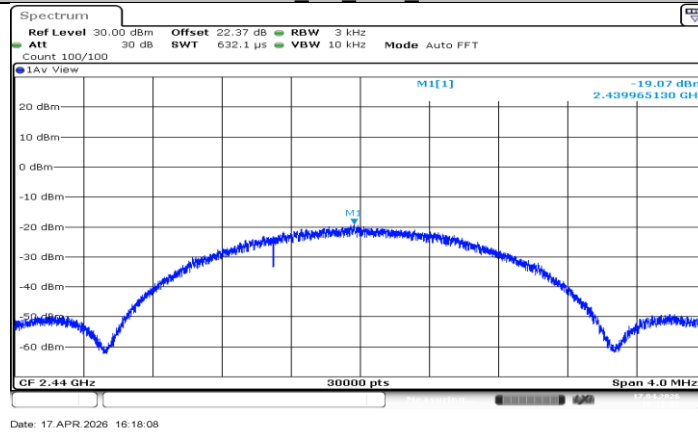
BLE 1M Ant1 2440



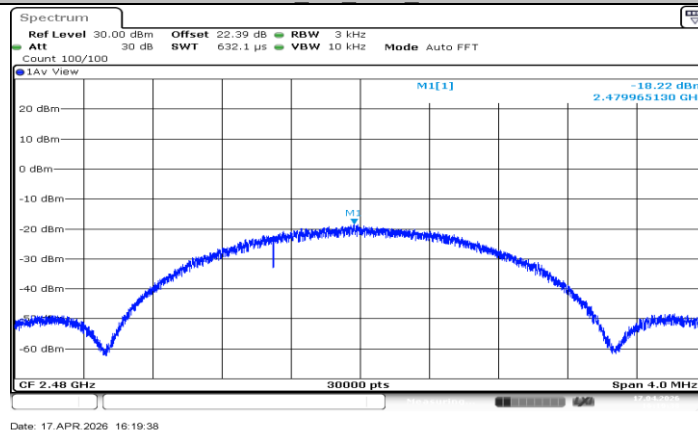
BLE 1M Ant1 2480



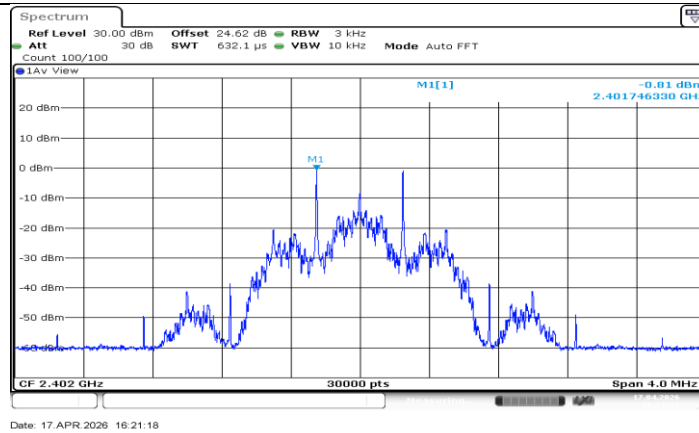
BLE 2M Ant1 2402



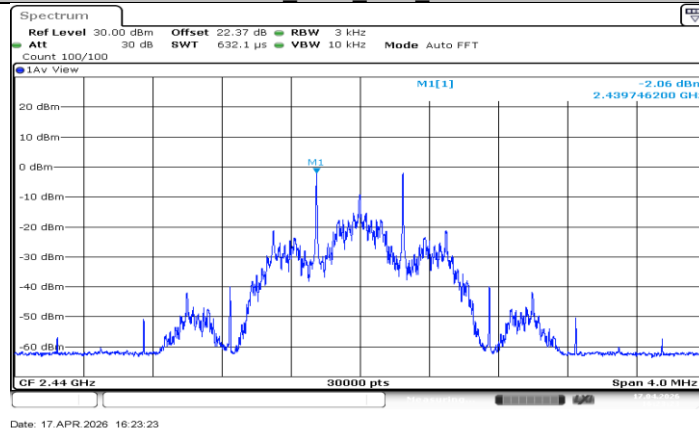
BLE 2M Ant1 2440



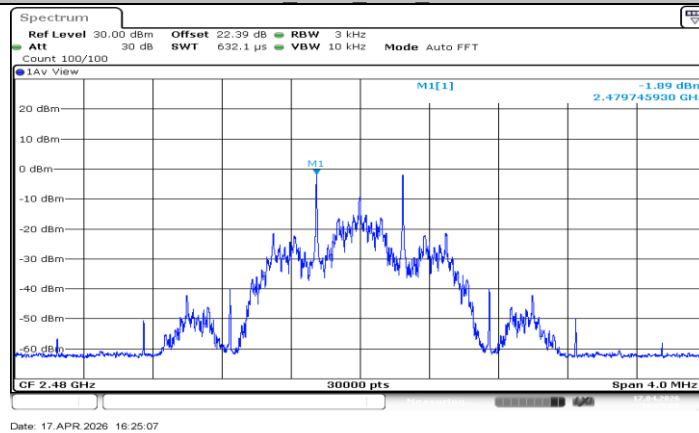
BLE 2M Ant1 2480



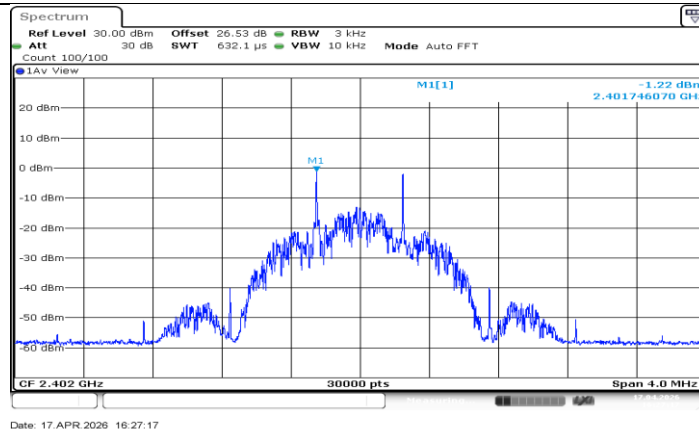
BLE_125K_Ant1_2402



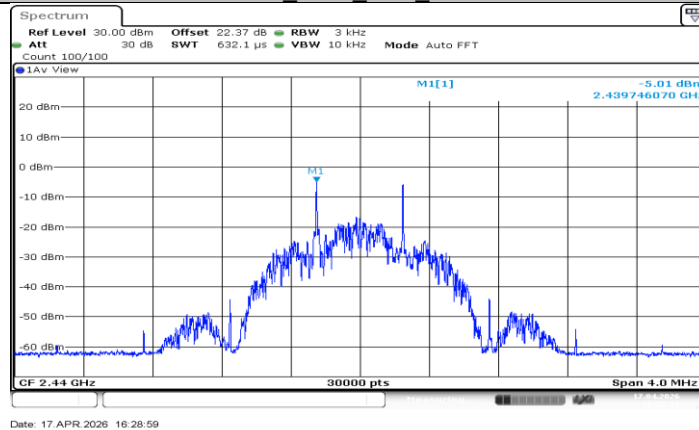
BLE_125K_Ant1_2440



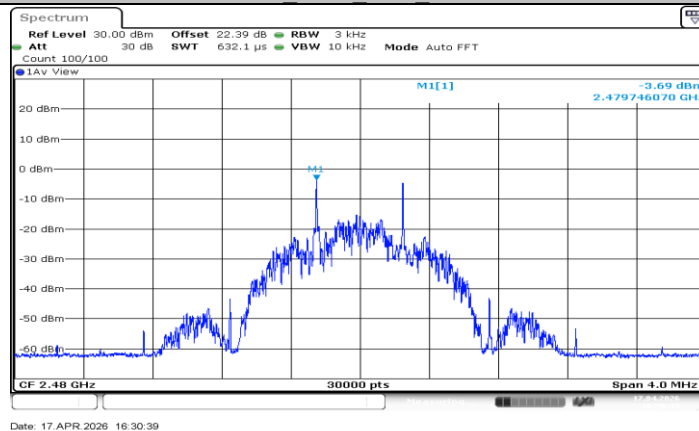
BLE_125K_Ant1_2480



BLE_500K_Ant1_2402



BLE_500K_Ant1_2440



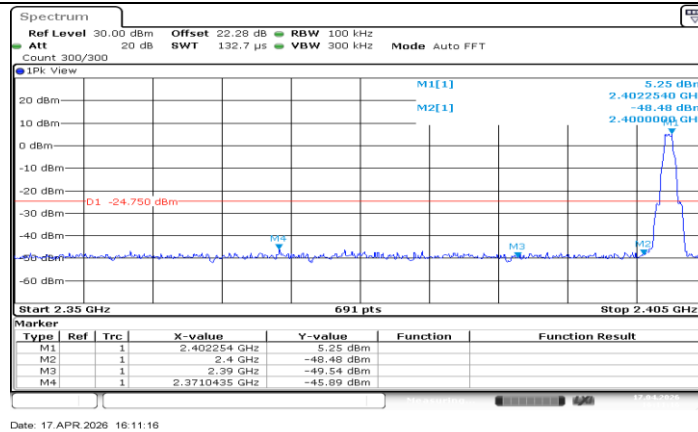
BLE_500K_Ant1_2480

12.5. APPENDIX E: BAND EDGE MEASUREMENTS

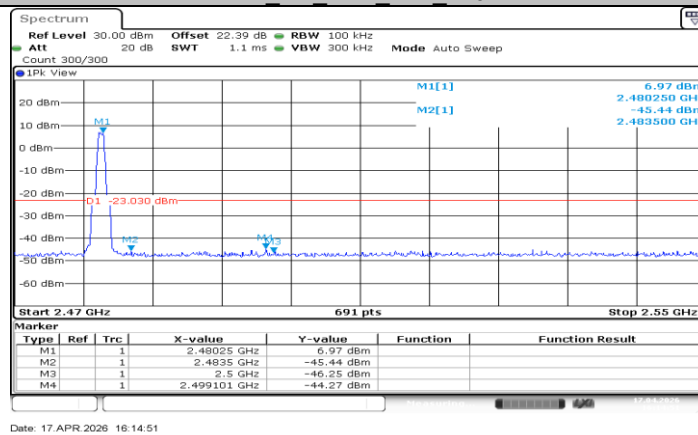
12.5.1. Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.25	-45.89	≤-24.75	PASS
		High	2480	6.97	-44.27	≤-23.03	PASS
BLE_2M	Ant1	Low	2402	4.96	-26.9	≤-25.04	PASS
		High	2480	6.64	-45.26	≤-23.36	PASS
BLE_125K	Ant1	Low	2402	2.85	-45.68	≤-27.15	PASS
		High	2480	4.47	-45.17	≤-25.53	PASS
BLE_500K	Ant1	Low	2402	5.95	-46.47	≤-24.05	PASS
		High	2480	7.56	-44.85	≤-22.44	PASS

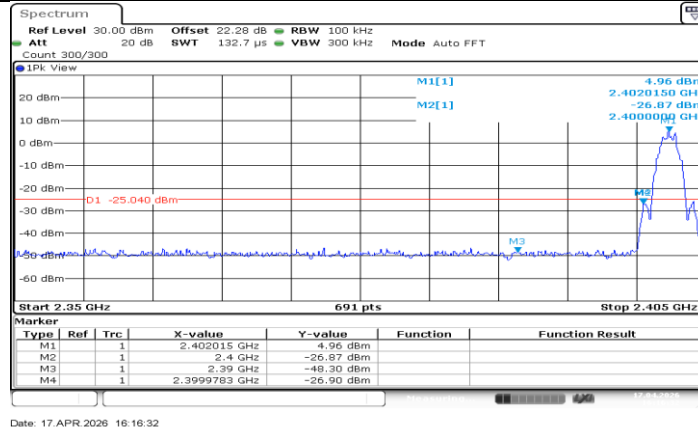
12.5.2. Test Graphs



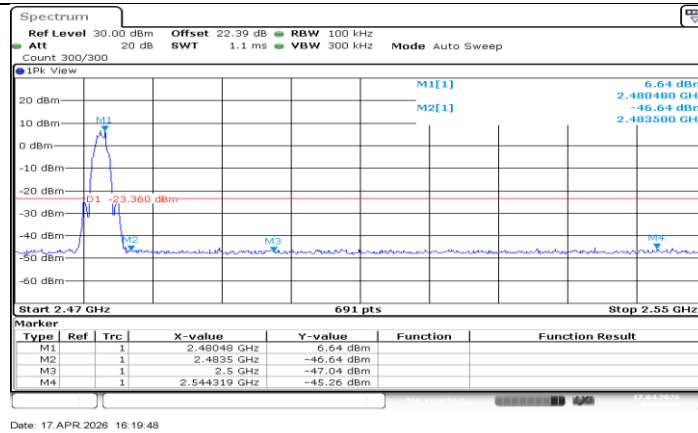
BLE 1M Ant1 Low 2402



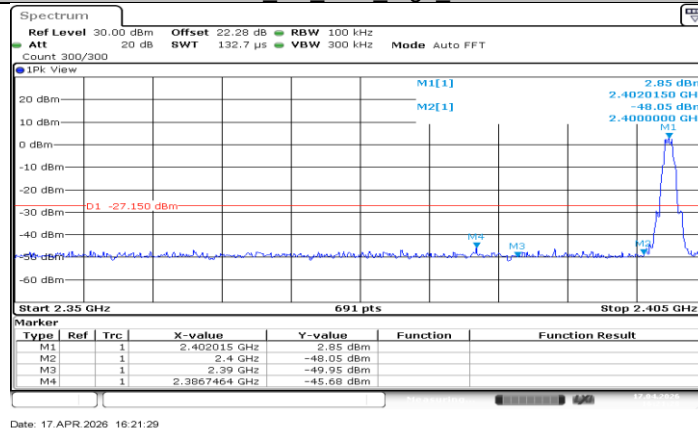
BLE 1M Ant1 High 2480



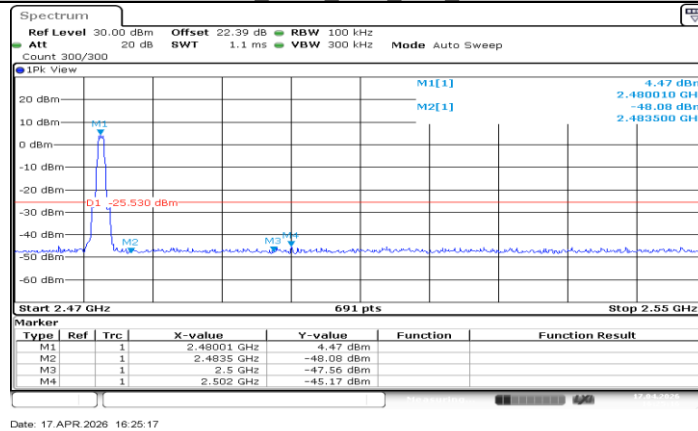
BLE 2M Ant1 Low 2402



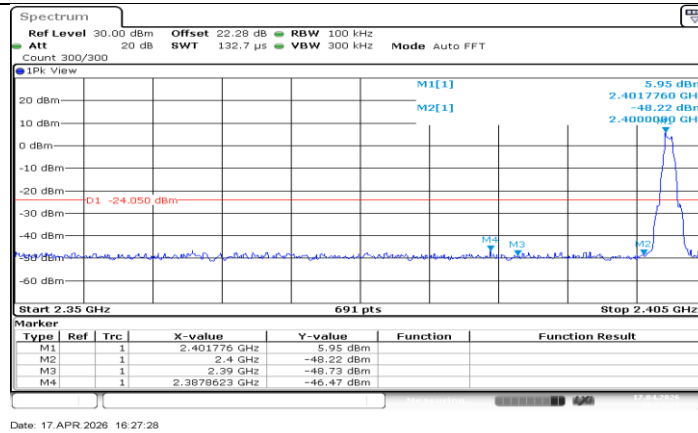
BLE 2M Ant1 High 2480



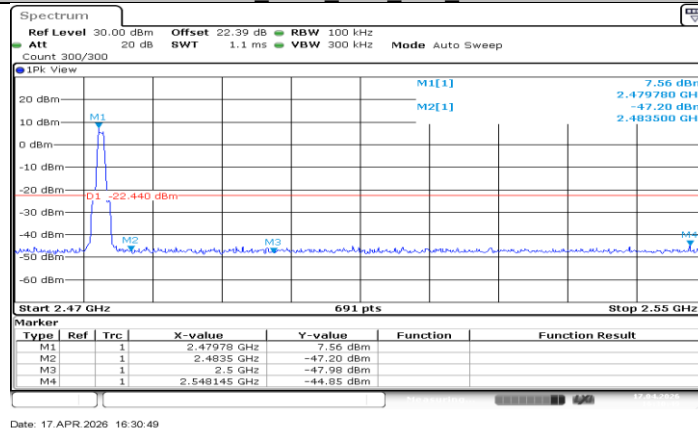
BLE 125K Ant1 Low 2402



BLE 125K Ant1 High 2480



BLE_500K Ant1 Low_2402



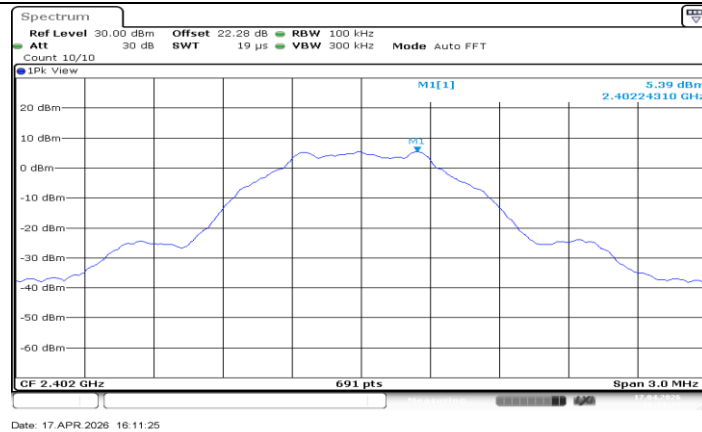
BLE_500K Ant1_High_2480

12.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION

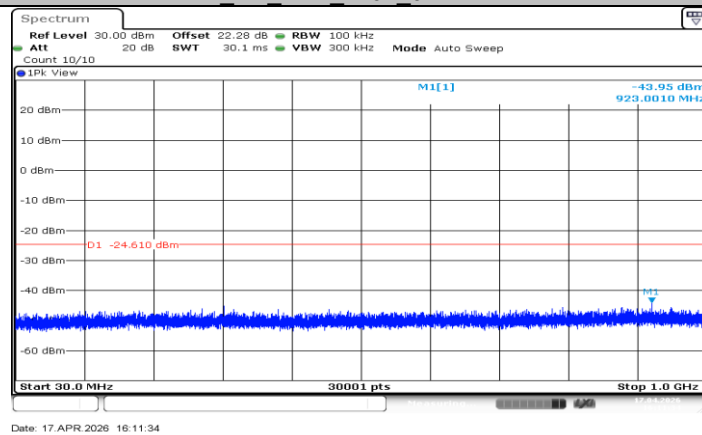
12.6.1. Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.39	---	PASS
			30~1000	-43.95	≤-24.61	PASS
			1000~26500	-39.51	≤-24.61	PASS
		2440	Reference	6.25	---	PASS
			30~1000	-44.88	≤-23.75	PASS
			1000~26500	-39.3	≤-23.75	PASS
		2480	Reference	6.87	---	PASS
			30~1000	-44.38	≤-23.13	PASS
			1000~26500	-39.85	≤-23.13	PASS
BLE_2M	Ant1	2402	Reference	5.24	---	PASS
			30~1000	-45.26	≤-24.76	PASS
			1000~26500	-39.31	≤-24.76	PASS
		2440	Reference	6.05	---	PASS
			30~1000	-44.73	≤-23.95	PASS
			1000~26500	-38.84	≤-23.95	PASS
		2480	Reference	6.65	---	PASS
			30~1000	-45.23	≤-23.35	PASS
			1000~26500	-39.99	≤-23.35	PASS
BLE_125K	Ant1	2402	Reference	2.93	---	PASS
			30~1000	-45.11	≤-27.07	PASS
			1000~26500	-40.09	≤-27.07	PASS
		2440	Reference	3.70	---	PASS
			30~1000	-44.29	≤-26.3	PASS
			1000~26500	-39.83	≤-26.3	PASS
		2480	Reference	4.51	---	PASS
			30~1000	-44.75	≤-25.49	PASS
			1000~26500	-39.74	≤-25.49	PASS
BLE_500K	Ant1	2402	Reference	6.10	---	PASS
			30~1000	-45.38	≤-23.9	PASS
			1000~26500	-39.17	≤-23.9	PASS
		2440	Reference	6.93	---	PASS
			30~1000	-45.07	≤-23.07	PASS
			1000~26500	-39.5	≤-23.07	PASS
		2480	Reference	7.65	---	PASS
			30~1000	-45.11	≤-22.35	PASS
			1000~26500	-39.93	≤-22.35	PASS

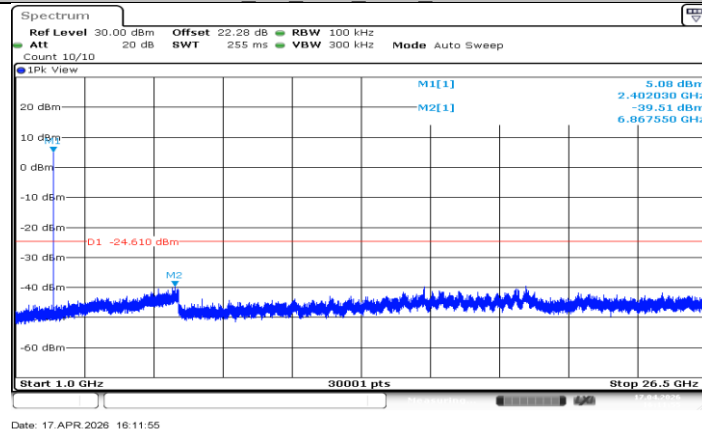
12.6.2. Test Graphs



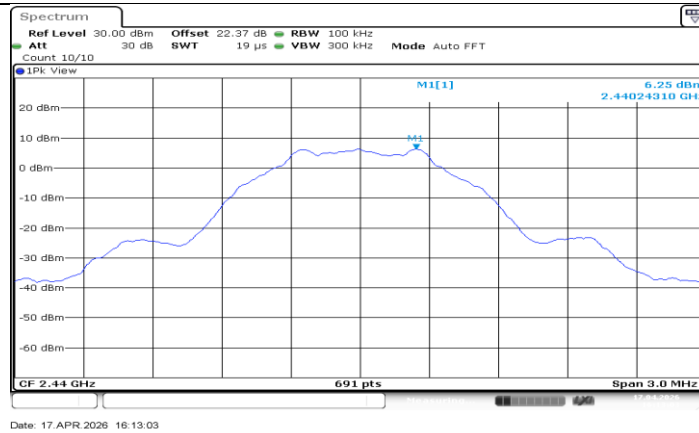
BLE_1M_Ant1_2402_0~Reference



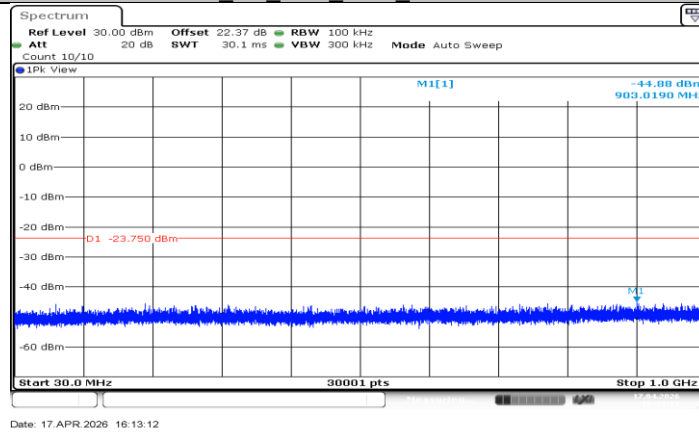
BLE_1M_Ant1_2402_30~1000



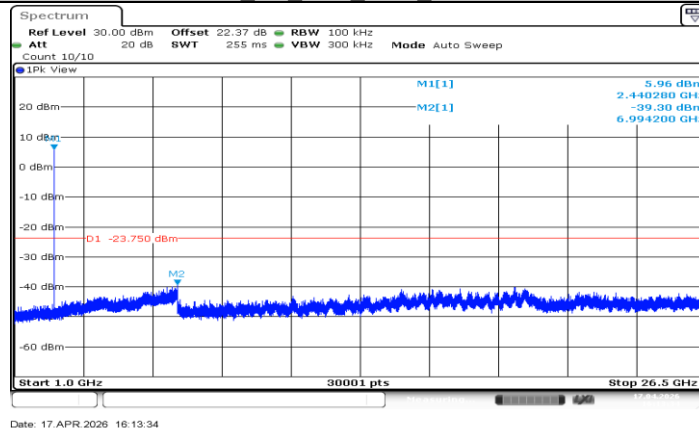
BLE_1M_Ant1_2402_1000~26500



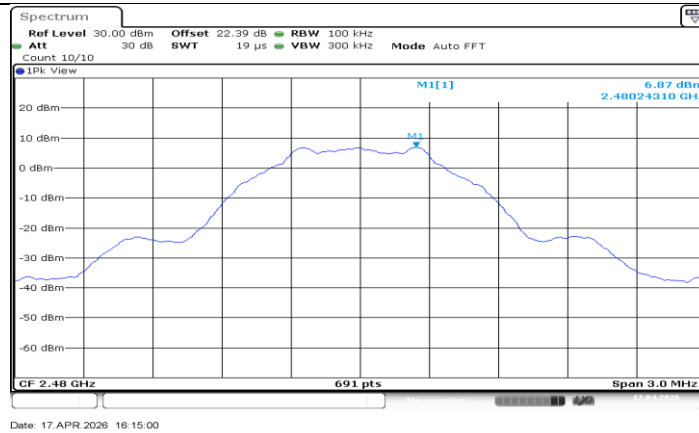
BLE 1M Ant1 2440 0~Reference



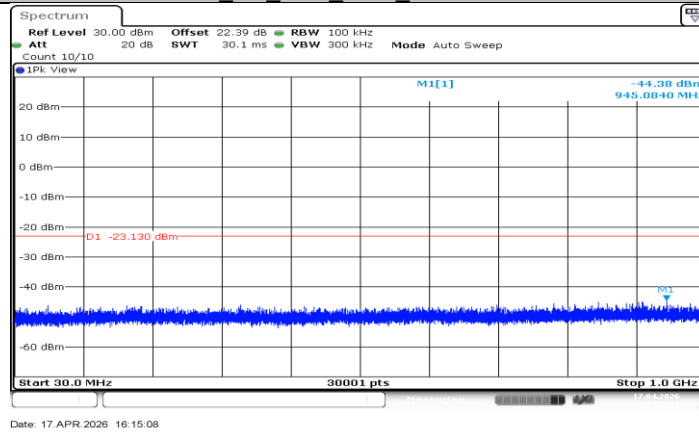
BLE 1M Ant1 2440 30~1000



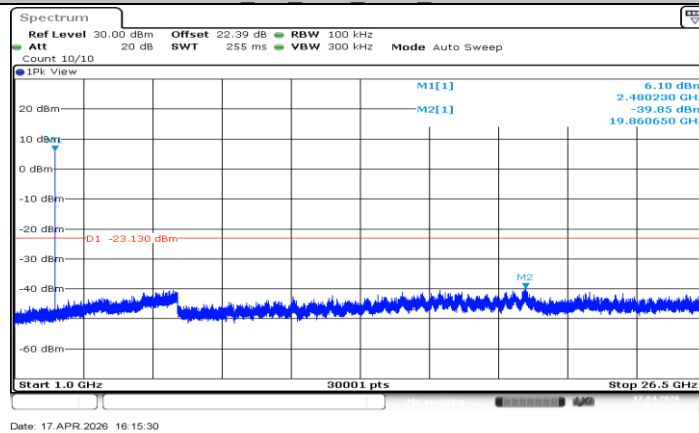
BLE 1M Ant1 2440 1000~26500



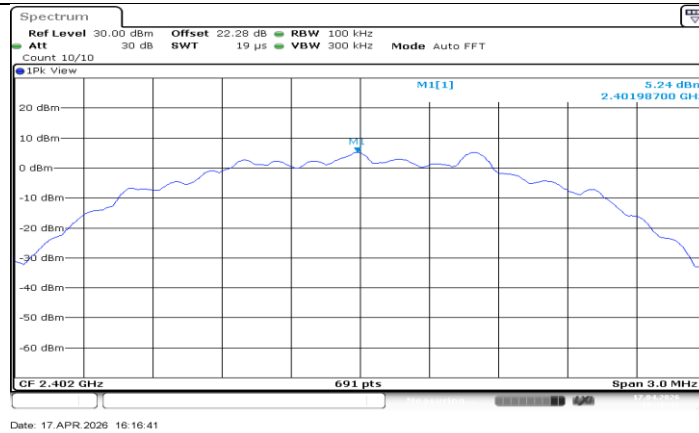
BLE 1M Ant1 2480 0~Reference



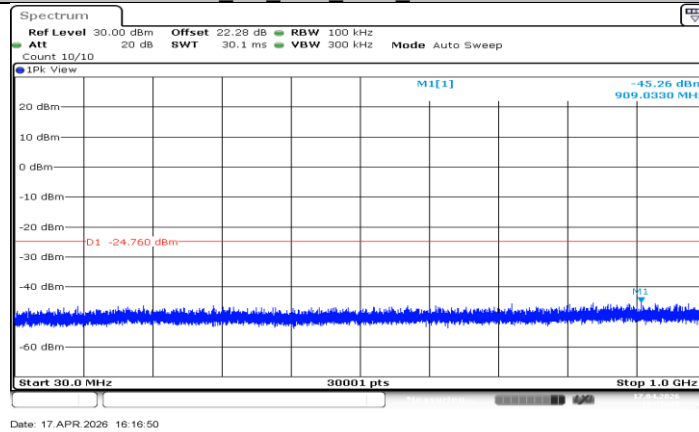
BLE 1M Ant1 2480 30~1000



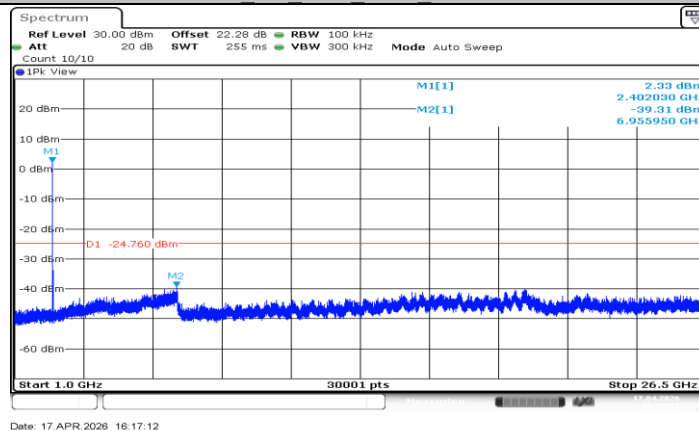
BLE 1M Ant1 2480 1000~26500



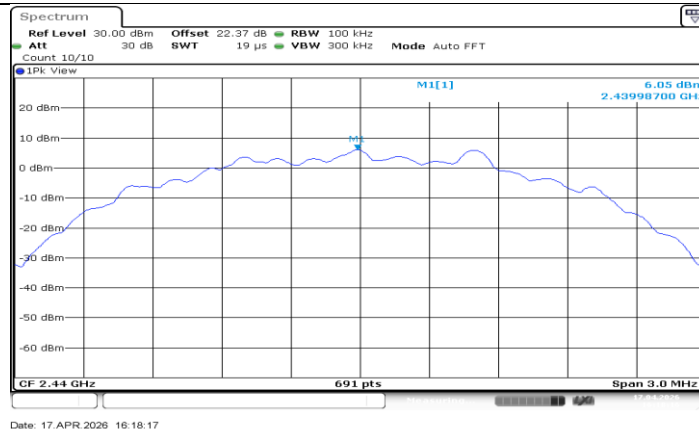
BLE 2M Ant1 2402_0~Reference



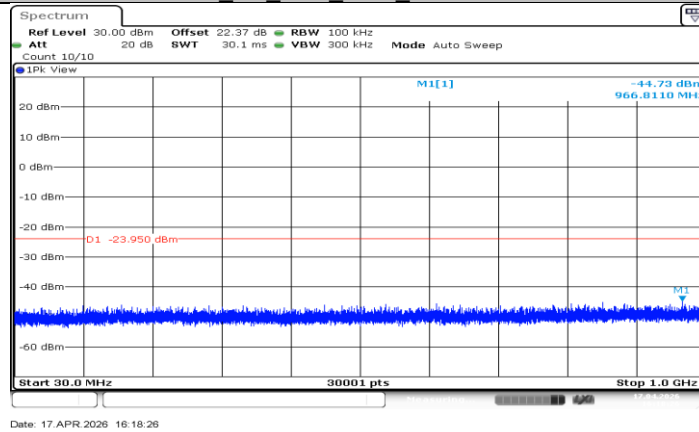
BLE 2M Ant1 2402_30~1000



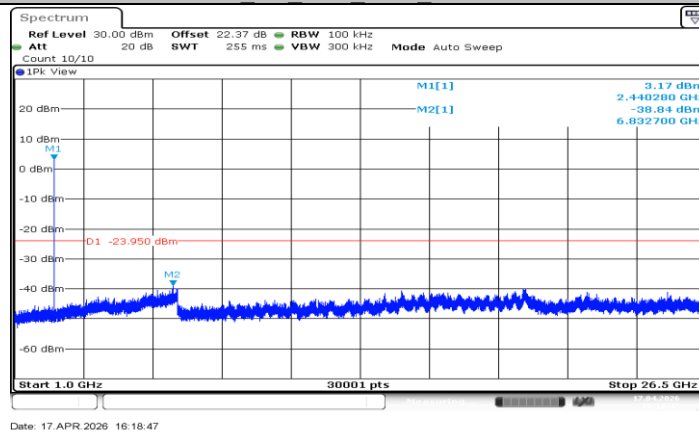
BLE 2M Ant1 2402_1000~26500



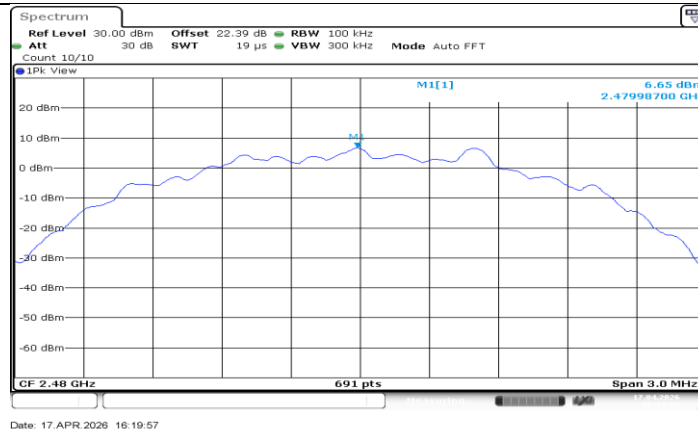
BLE 2M Ant1 2440 0~Reference



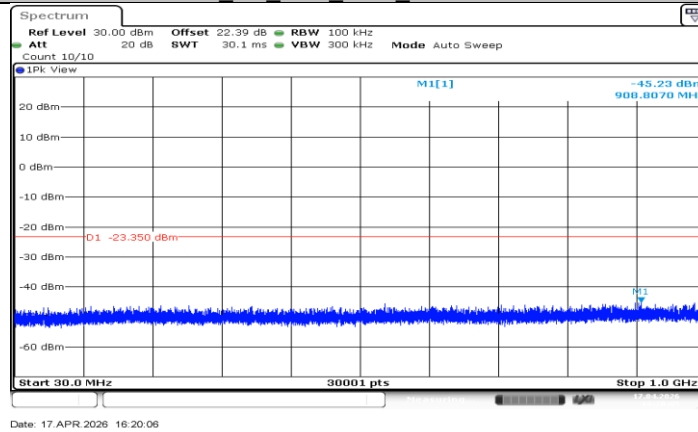
BLE 2M Ant1 2440 30~1000



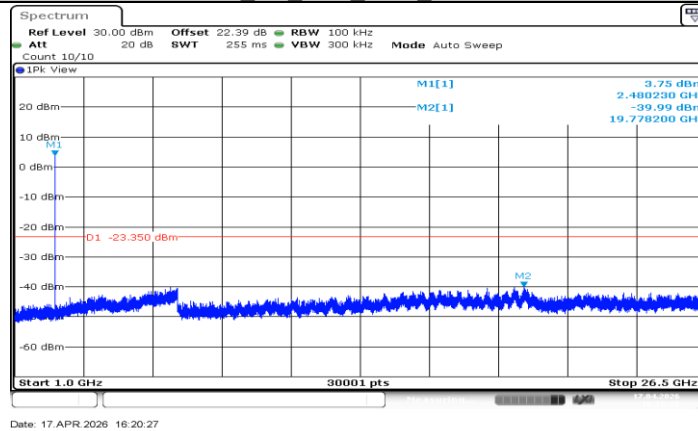
BLE 2M Ant1 2440 1000~26500



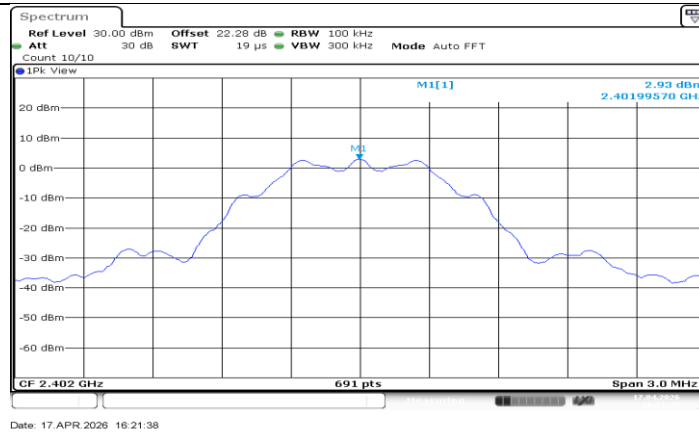
BLE 2M Ant1 2480 0~Reference



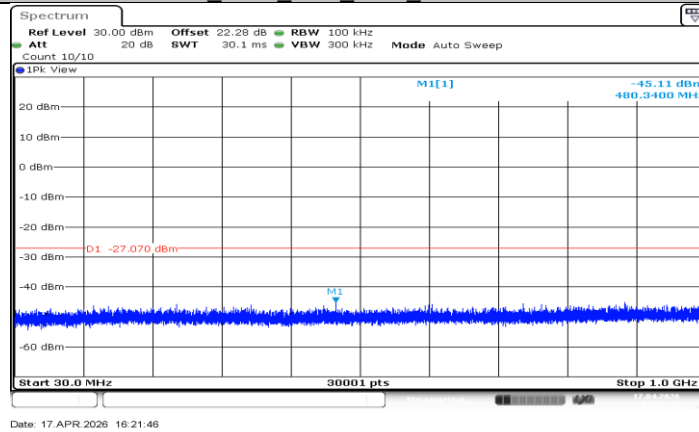
BLE 2M Ant1 2480 30~1000



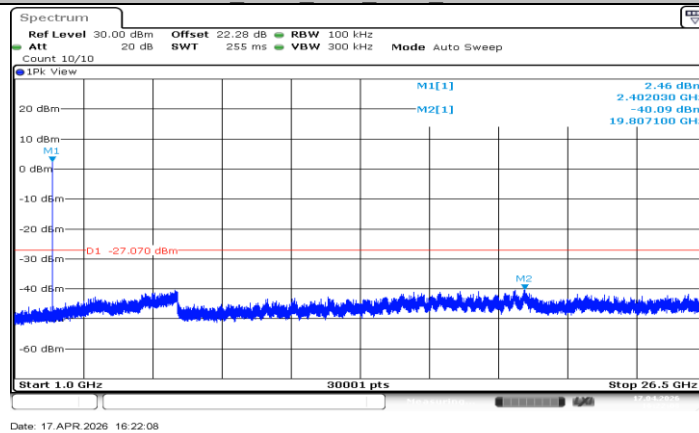
BLE 2M Ant1 2480 1000~26500



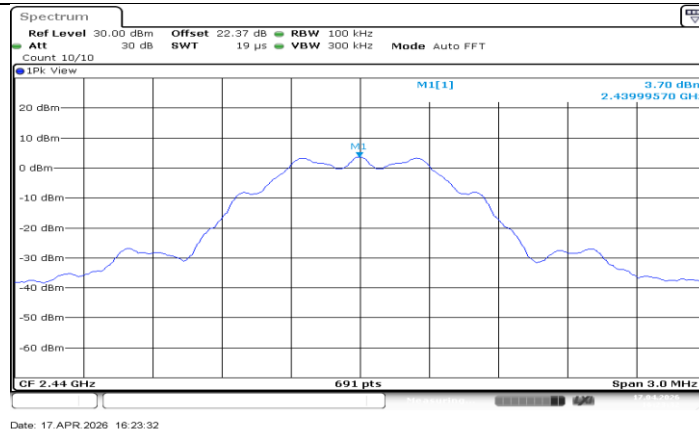
BLE 125K Ant1 2402 0~Reference



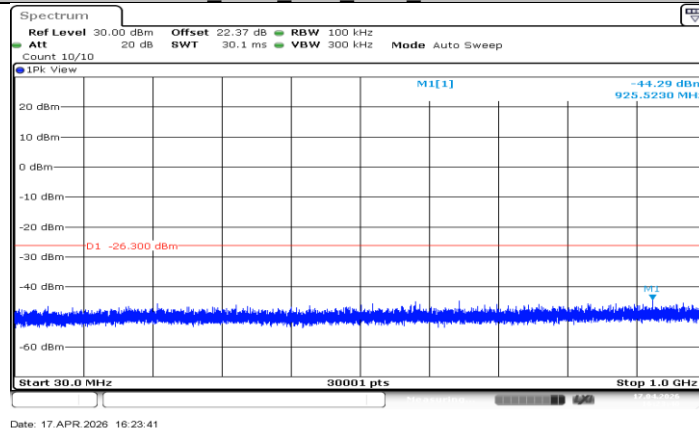
BLE 125K Ant1 2402 30~1000



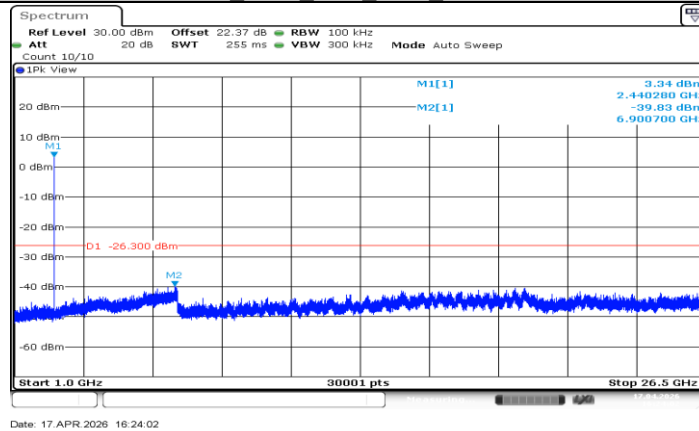
BLE 125K Ant1 2402 1000~26500



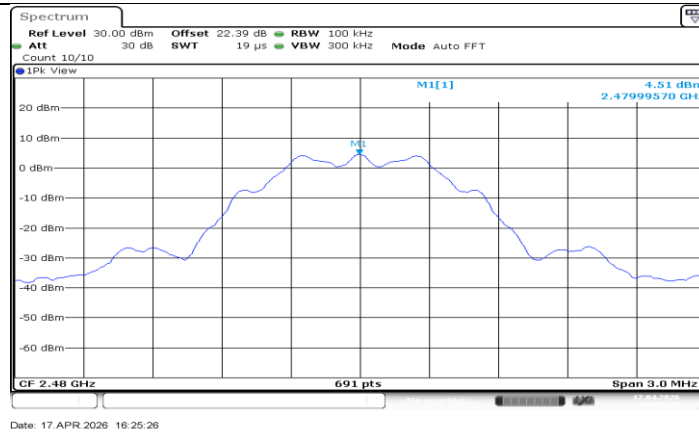
BLE 125K Ant1 2440 0~Reference



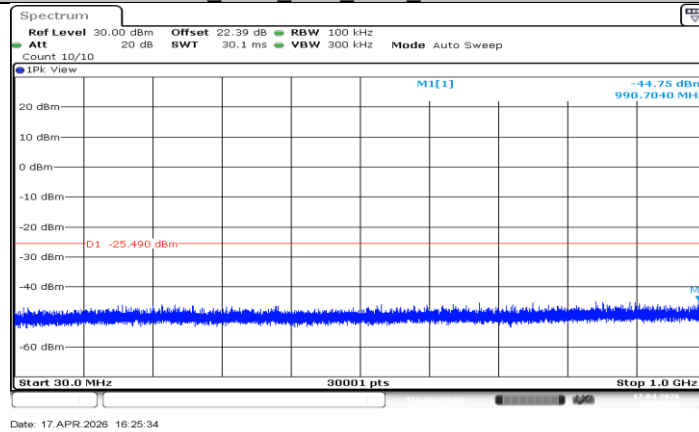
BLE 125K Ant1 2440 30~1000



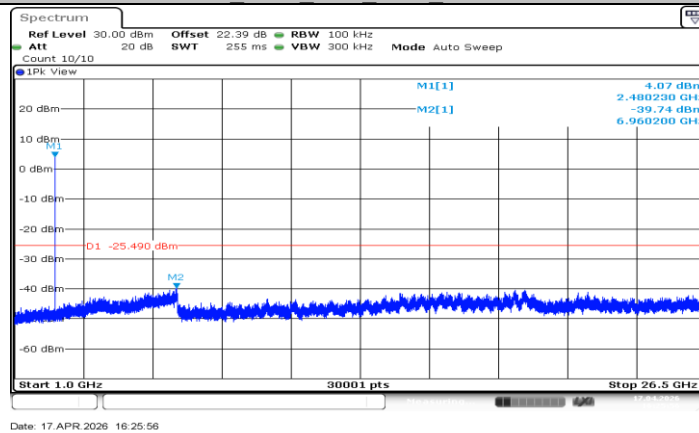
BLE 125K Ant1 2440 1000~26500



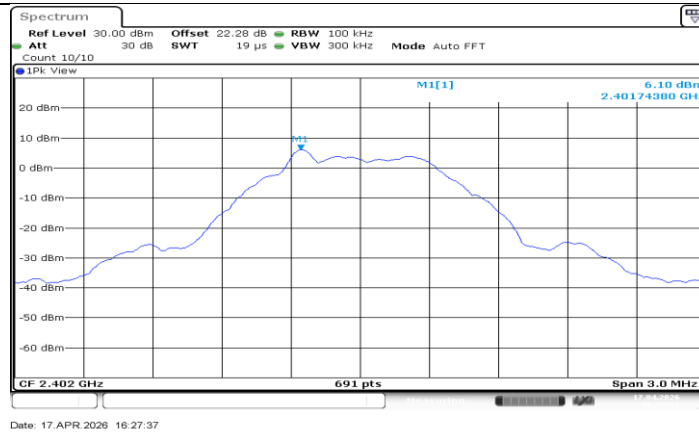
BLE_125K_Ant1_2480_0~Reference



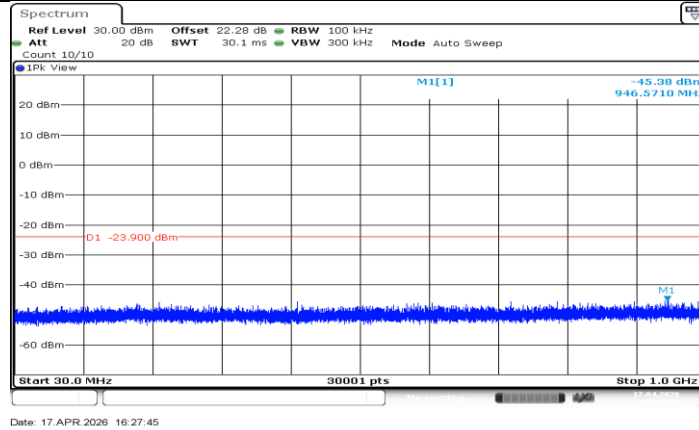
BLE_125K_Ant1_2480_30~1000



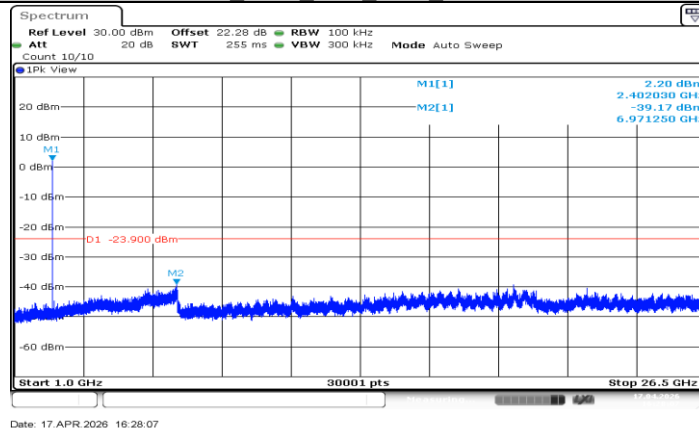
BLE_125K_Ant1_2480_1000~26500



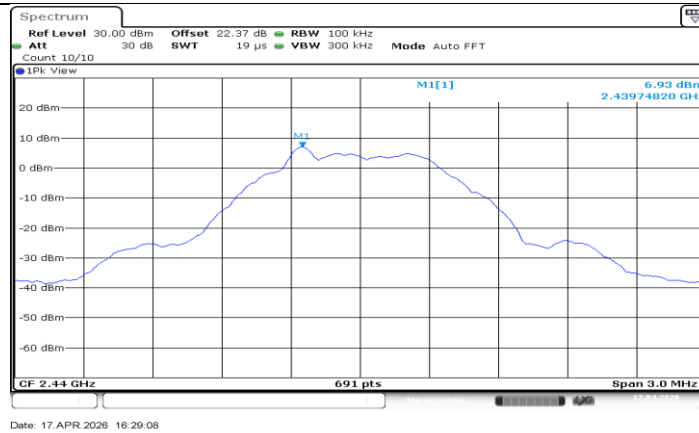
BLE 500K Ant1 2402 0~Reference



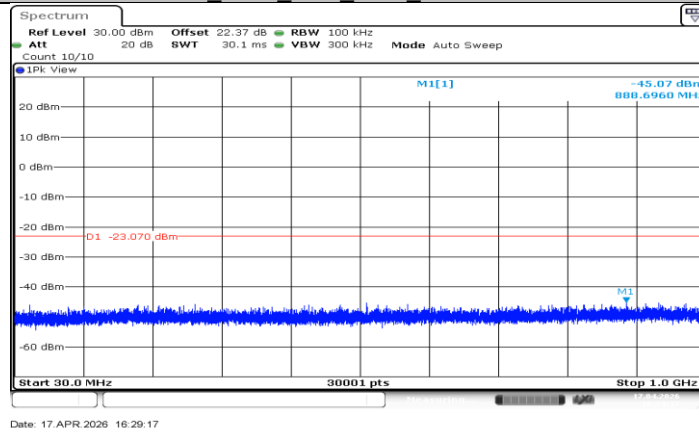
BLE 500K Ant1 2402 30~1000



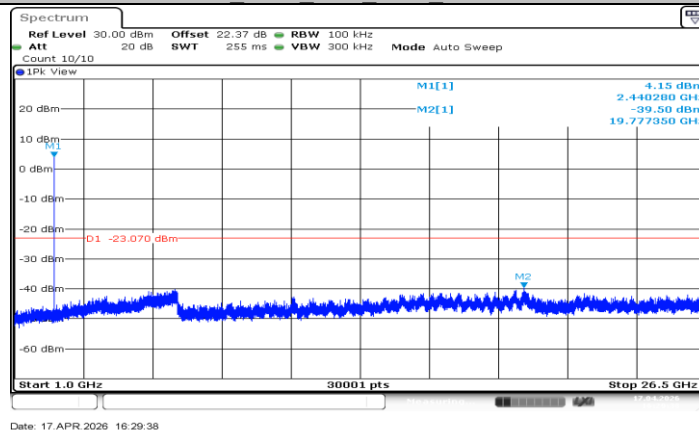
BLE 500K Ant1 2402 1000~26500



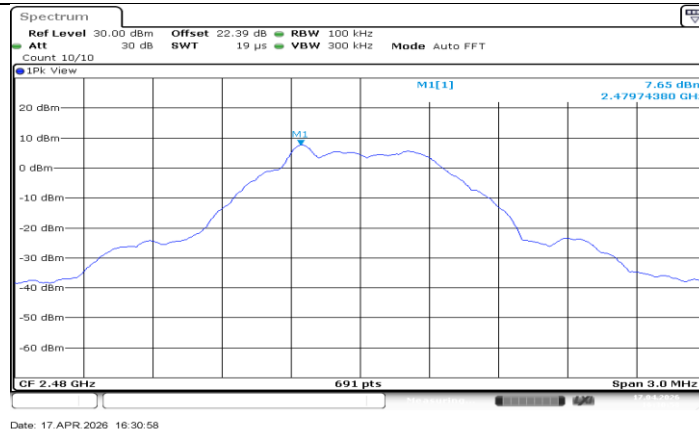
BLE_500K_Ant1_2440_0~Reference



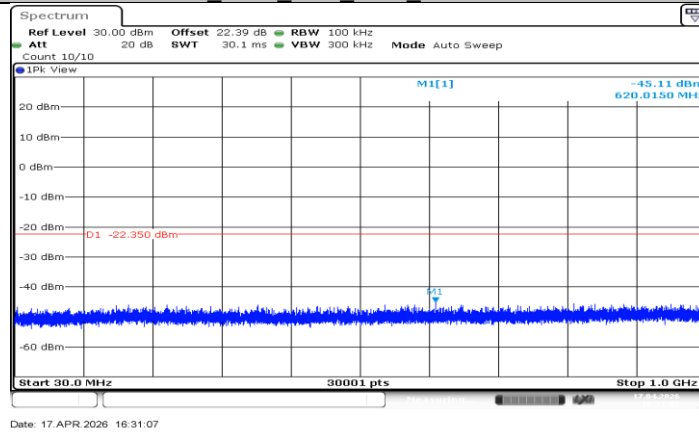
BLE_500K_Ant1_2440_30~1000



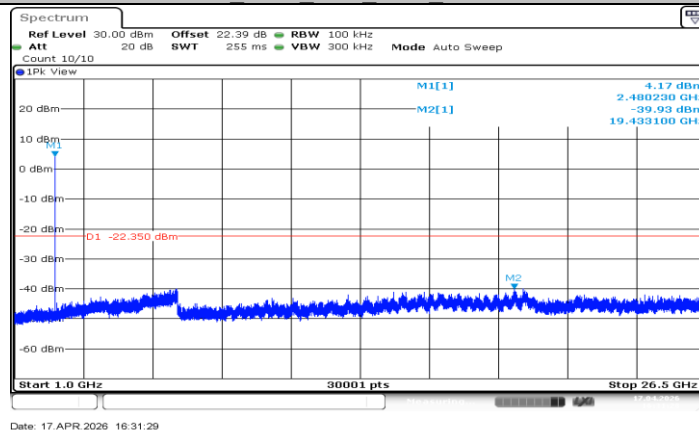
BLE_500K_Ant1_2440_1000~26500



BLE_500K_Ant1_2480_0~Reference



BLE_500K_Ant1_2480_30~1000



BLE_500K_Ant1_2480_1000~26500

12.7. APPENDIX G: DUTY CYCLE

12.7.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
BLE_1M	0.39	0.63	0.6190	61.90	2.08	2.56	3
BLE_2M	1.07	1.87	0.5722	57.22	2.42	0.93	1
BLE_125K	0.73	1.25	0.5840	58.40	2.34	1.37	2
BLE_500K	0.47	1.25	0.3760	37.60	4.25	2.13	3

Note:

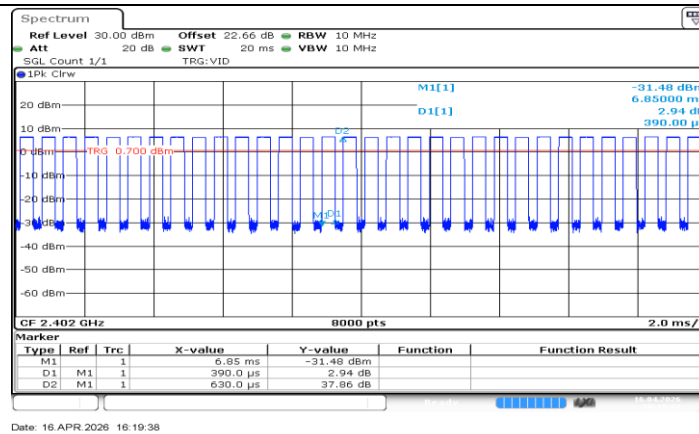
Duty Cycle Correction Factor= $10\log(1/x)$.

Where: x is Duty Cycle (Linear)

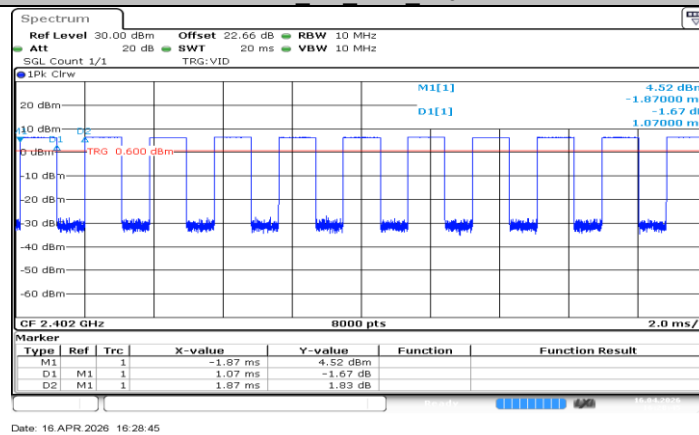
Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

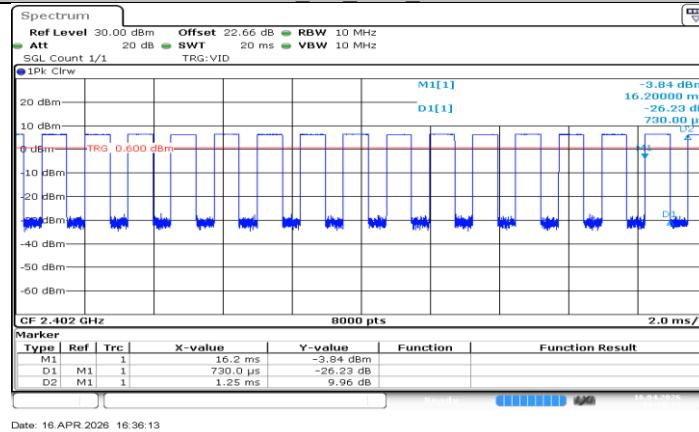
12.7.2. Test Graphs



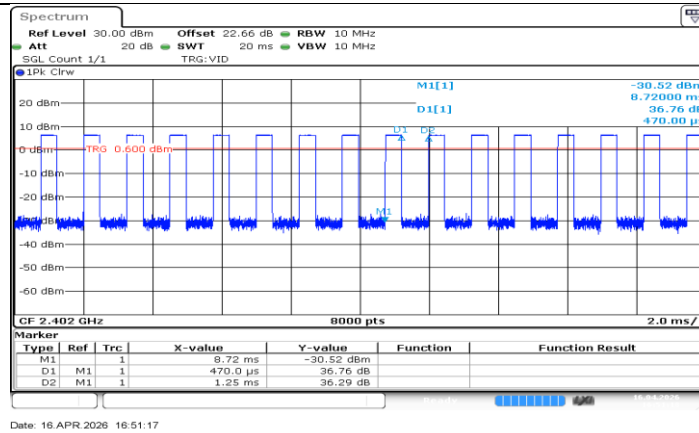
BLE 1M Ant1_2402



BLE 2M Ant1_2402



BLE 125K Ant1_2402



BLE_500K_Ant1_2402

END OF REPORT