



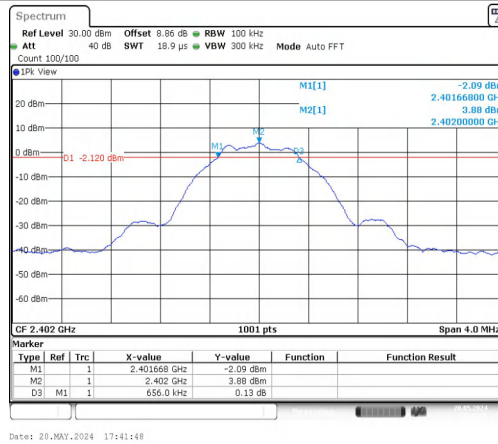
Appendix A: 6dB Bandwidth

Test Result

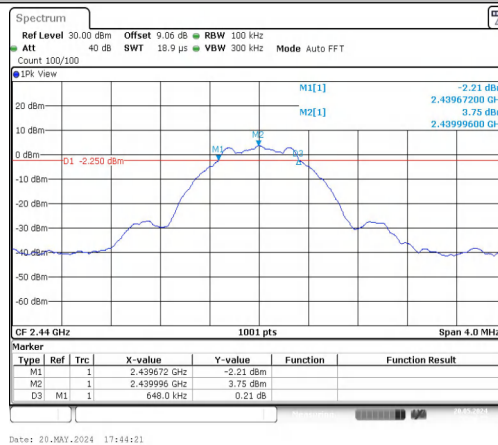
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.66	2401.67	2402.32	0.5	PASS
BLE_1M	Ant1	2440	0.65	2439.67	2440.32	0.5	PASS
BLE_1M	Ant1	2480	0.66	2479.67	2480.32	0.5	PASS
BLE_2M	Ant1	2402	1.11	2401.45	2402.56	0.5	PASS
BLE_2M	Ant1	2440	1.11	2439.45	2440.56	0.5	PASS
BLE_2M	Ant1	2480	1.12	2479.44	2480.56	0.5	PASS



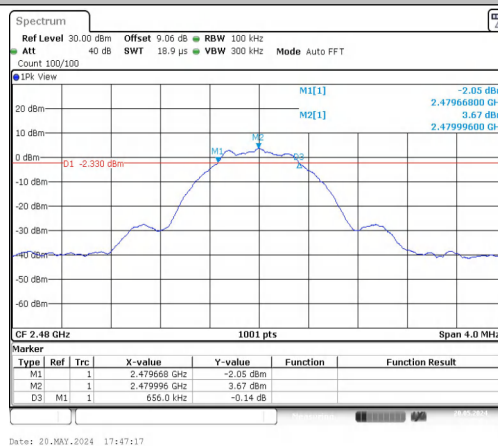
Test Graphs



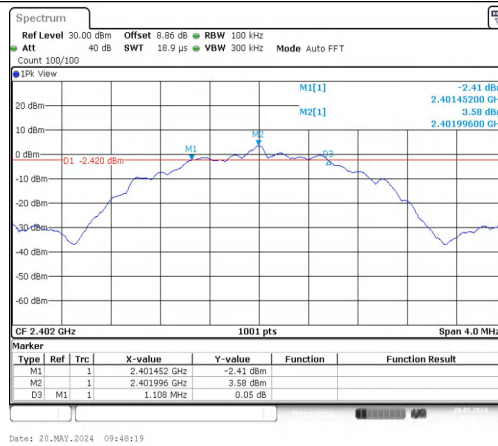
BLE_1M-Ant1-2402-PASS



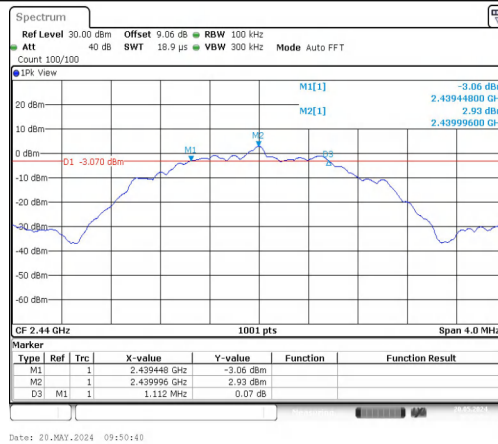
BLE_1M-Ant1-2440-PASS



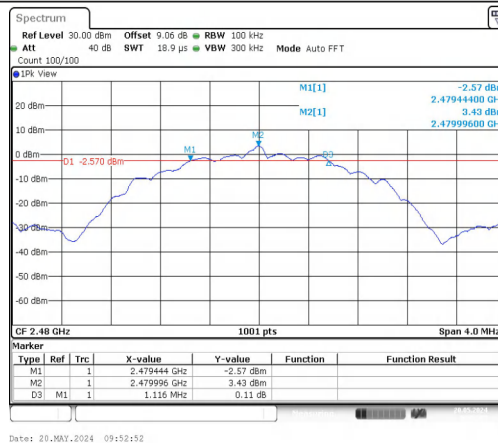
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



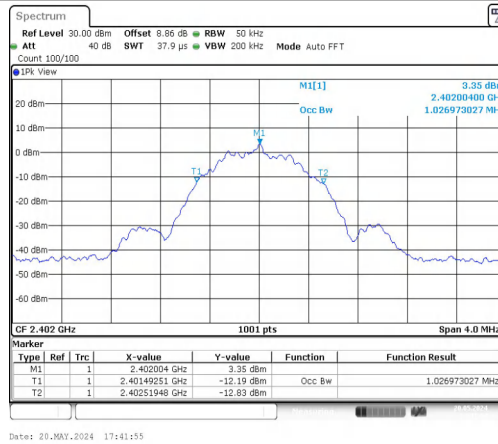
Appendix B: Occupied Channel Bandwidth

Test Result

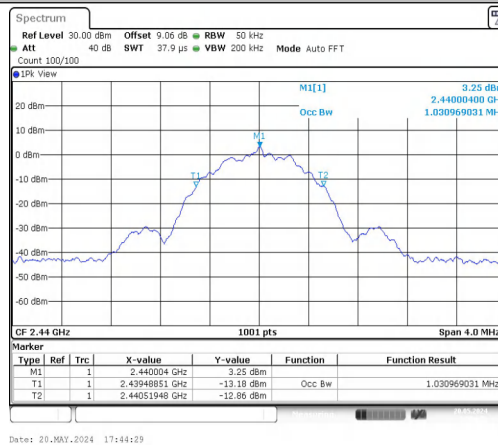
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.027	2401.4925	2402.5195	---	---
BLE_1M	Ant1	2440	1.031	2439.4885	2440.5195	---	---
BLE_1M	Ant1	2480	1.031	2479.4885	2480.5195	---	---
BLE_2M	Ant1	2402	2.066	2400.9770	2403.0430	---	---
BLE_2M	Ant1	2440	2.054	2438.9850	2441.0390	---	---
BLE_2M	Ant1	2480	2.066	2478.9770	2481.0430	---	---



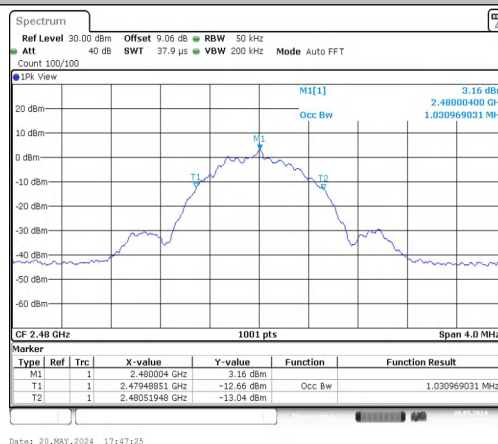
Test Graphs



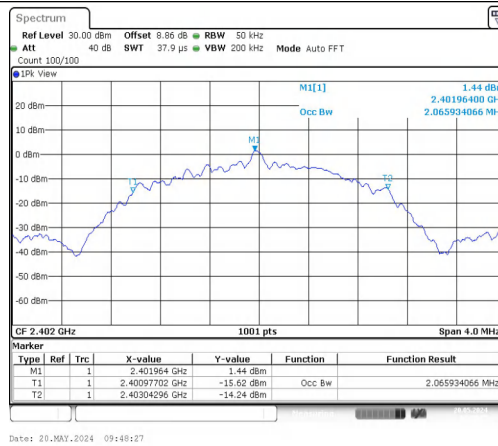
BLE_1M-Ant1-2402



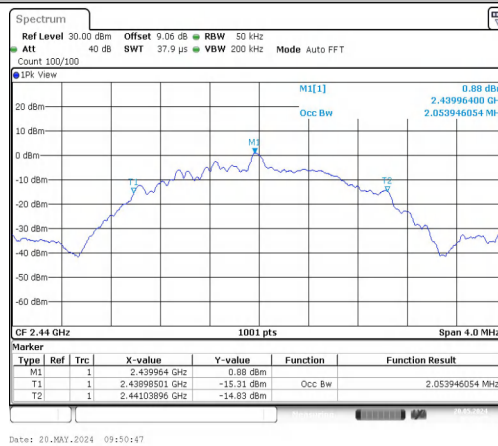
BLE_1M-Ant1-2440



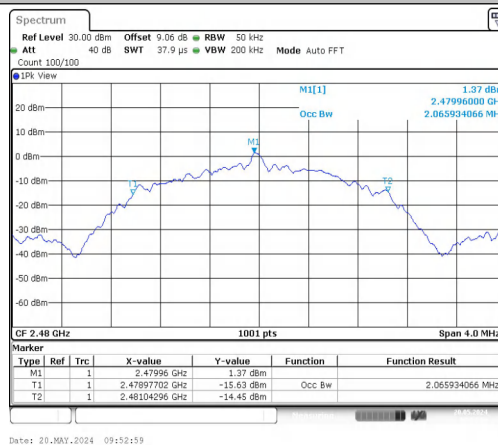
BLE_1M-Ant1-2480



BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480



Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Gain [dBi]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	4.11	≤30	3.56	7.66	--	PASS
BLE_1M	Ant1	2440	3.99	≤30	3.56	7.55	--	PASS
BLE_1M	Ant1	2480	3.91	≤30	3.56	7.47	--	PASS
BLE_2M	Ant1	2402	3.94	≤30	3.56	7.50	--	PASS
BLE_2M	Ant1	2440	3.25	≤30	3.56	6.81	--	PASS
BLE_2M	Ant1	2480	3.63	≤30	3.56	7.19	--	PASS

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
BLE_1M	Ant1	2402	2.95	≤30.00	3.56	6.51	--	PASS
BLE_1M	Ant1	2440	3.34	≤30.00	3.56	6.90	--	PASS
BLE_1M	Ant1	2480	3.40	≤30.00	3.56	6.96	--	PASS
BLE_2M	Ant1	2402	2.15	≤30.00	3.56	5.71	--	PASS
BLE_2M	Ant1	2440	2.13	≤30.00	3.56	5.69	--	PASS
BLE_2M	Ant1	2480	2.68	≤30.00	3.56	6.24	--	PASS



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.41	≤8.00	PASS
BLE_1M	Ant1	2440	-10.10	≤8.00	PASS
BLE_1M	Ant1	2480	-11.96	≤8.00	PASS
BLE_2M	Ant1	2402	-14.04	≤8.00	PASS
BLE_2M	Ant1	2440	-13.69	≤8.00	PASS
BLE_2M	Ant1	2480	-14.38	≤8.00	PASS



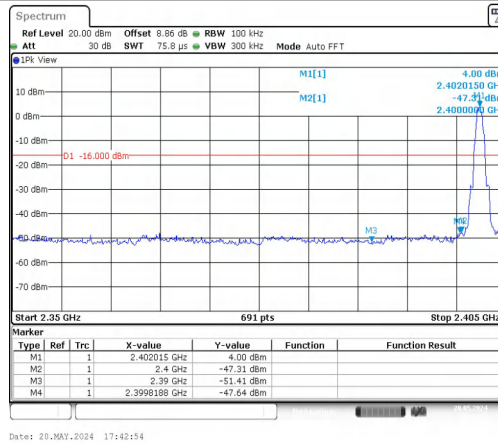
Appendix F: Band edge measurements

Test Result

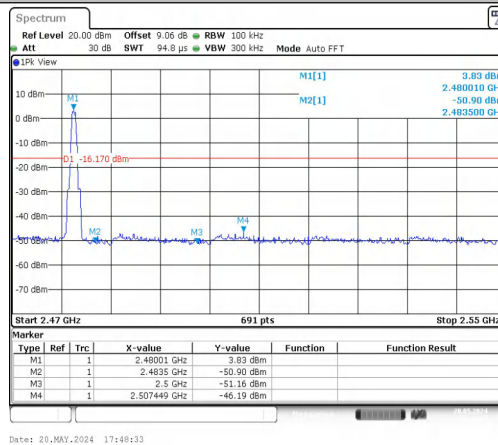
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.00	-47.64	≤ -16	PASS
BLE_1M	Ant1	High	2480	3.83	-46.19	≤ -16.17	PASS
BLE_2M	Ant1	Low	2402	3.72	-29.59	≤ -16.28	PASS
BLE_2M	Ant1	High	2480	3.65	-46.91	≤ -16.35	PASS



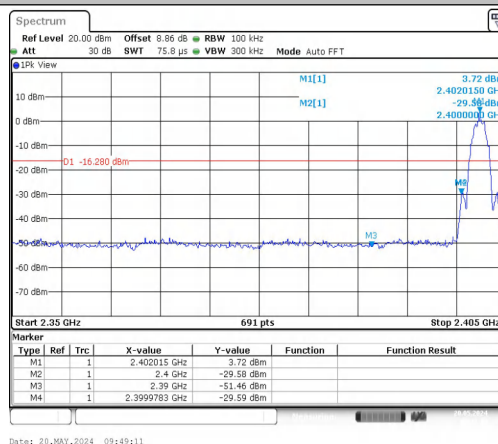
Test Graphs



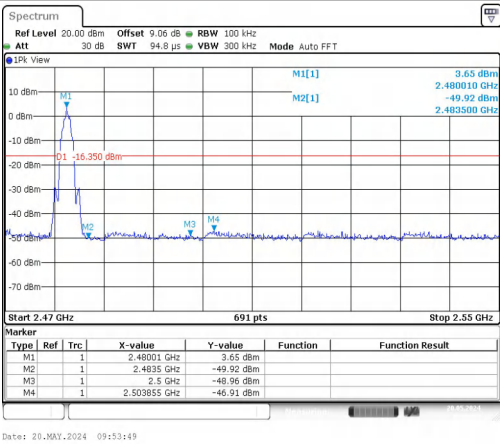
BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2480-PASS



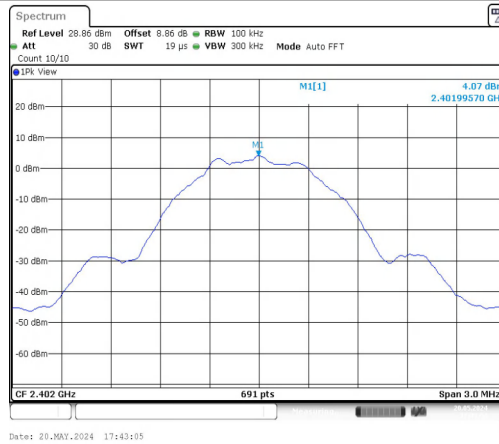
Appendix G: Out of band Emission

Test Result

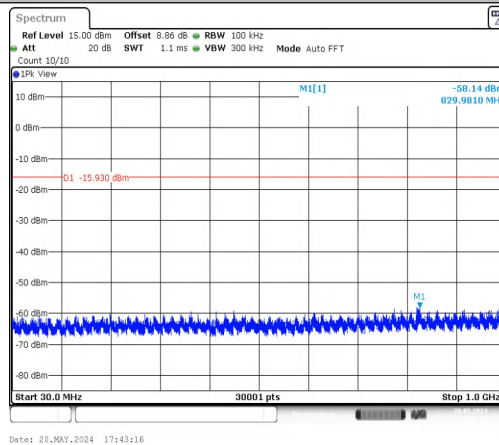
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	4.07	4.07	---	PASS
BLE_1M	Ant1	2402	30~1000	4.07	-58.14	≤ -15.93	PASS
BLE_1M	Ant1	2402	1000~26500	4.07	-47.45	≤ -15.93	PASS
BLE_1M	Ant1	2440	0~Reference	3.94	3.94	---	PASS
BLE_1M	Ant1	2440	30~1000	3.94	-55.67	≤ -16.06	PASS
BLE_1M	Ant1	2440	1000~26500	3.94	-47.65	≤ -16.06	PASS
BLE_1M	Ant1	2480	0~Reference	3.85	3.85	---	PASS
BLE_1M	Ant1	2480	30~1000	3.85	-58	≤ -16.15	PASS
BLE_1M	Ant1	2480	1000~26500	3.85	-46.89	≤ -16.15	PASS
BLE_2M	Ant1	2402	0~Reference	3.80	3.80	---	PASS
BLE_2M	Ant1	2402	30~1000	3.80	-58.1	≤ -16.2	PASS
BLE_2M	Ant1	2402	1000~26500	3.80	-46.26	≤ -16.2	PASS
BLE_2M	Ant1	2440	0~Reference	3.15	3.15	---	PASS
BLE_2M	Ant1	2440	30~1000	3.15	-58.09	≤ -16.85	PASS
BLE_2M	Ant1	2440	1000~26500	3.15	-46.91	≤ -16.85	PASS
BLE_2M	Ant1	2480	0~Reference	3.58	3.58	---	PASS
BLE_2M	Ant1	2480	30~1000	3.58	-56.51	≤ -16.42	PASS
BLE_2M	Ant1	2480	1000~26500	3.58	-45.72	≤ -16.42	PASS



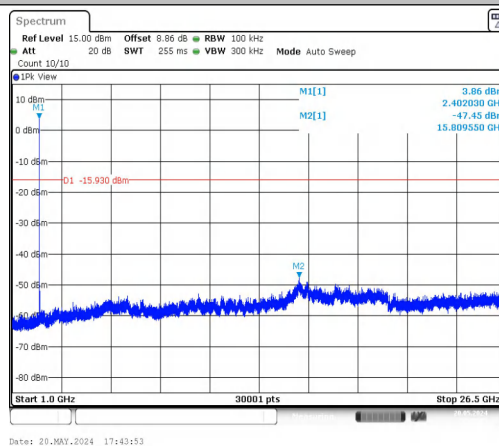
Test Graphs



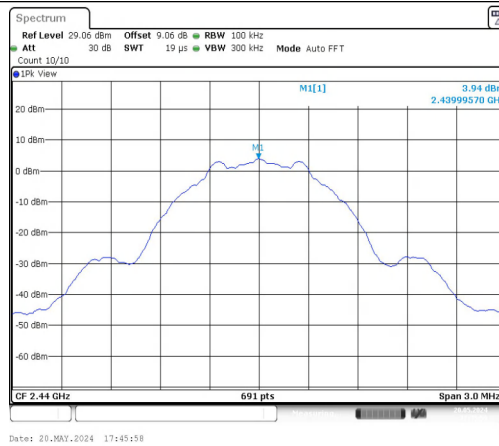
BLE_1M-Ant1-2402-0~Reference-PASS



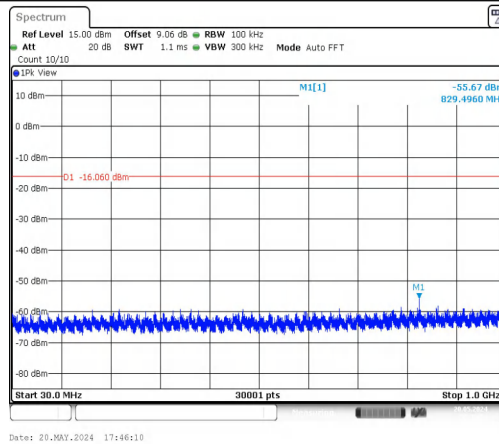
BLE_1M-Ant1-2402-30~1000-PASS



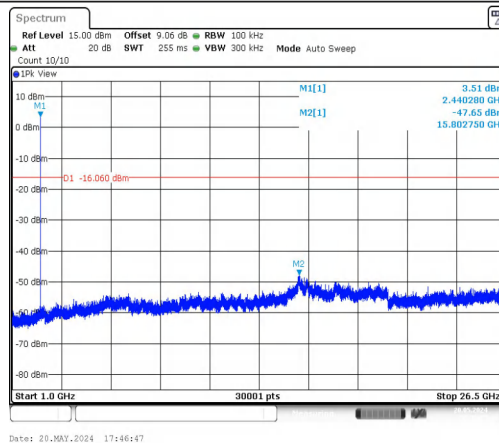
BLE_1M-Ant1-2402-1000~26500-PASS



BLE_1M-Ant1-2440-0~Reference-PASS



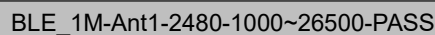
BLE_1M-Ant1-2440-30~1000-PASS

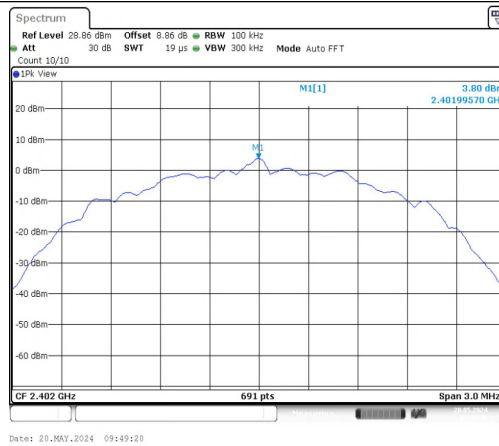


BLE_1M-Ant1-2440-1000~26500-PASS

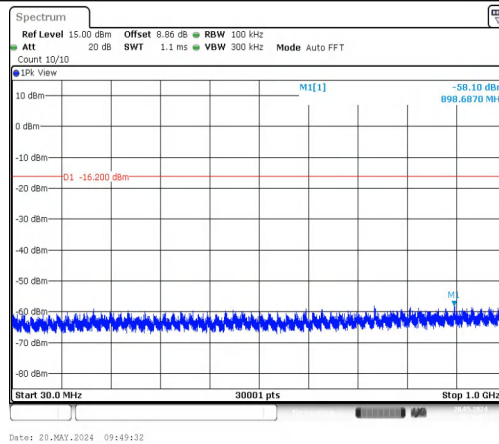


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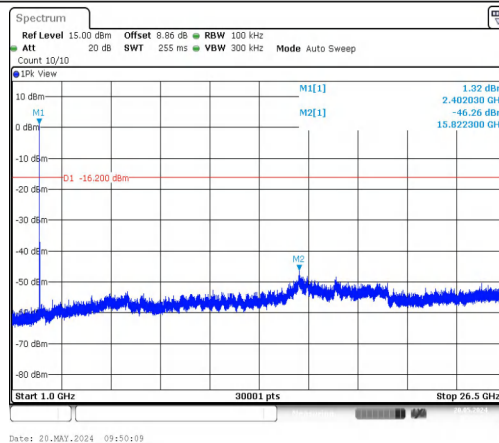




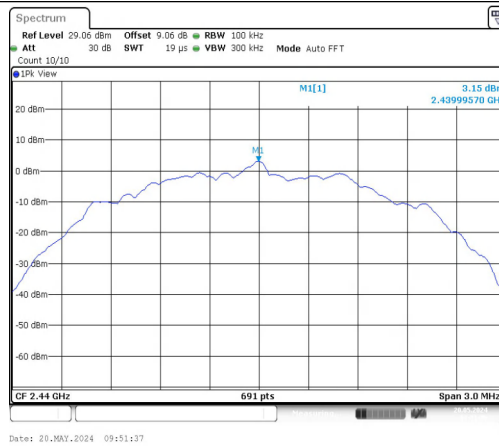
BLE_2M-Ant1-2402-0~Reference-PASS



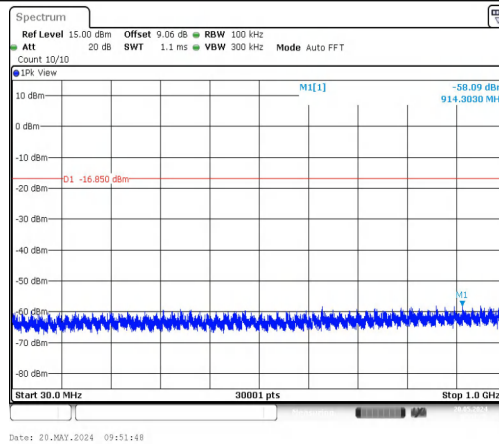
BLE_2M-Ant1-2402-30~1000-PASS



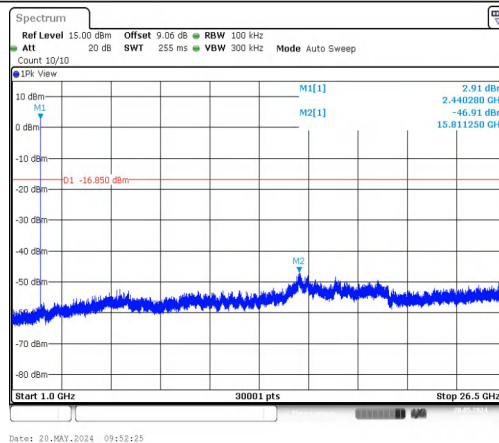
BLE_2M-Ant1-2402-1000~26500-PASS



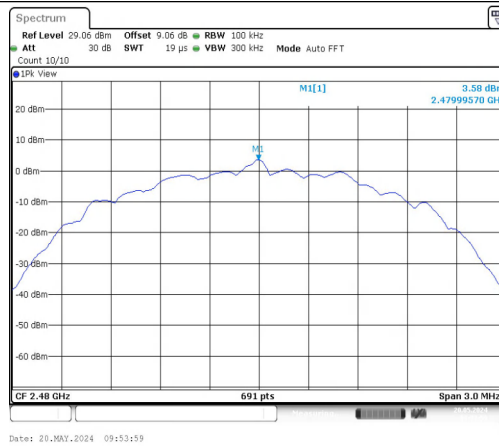
BLE_2M-Ant1-2440-0~Reference-PASS



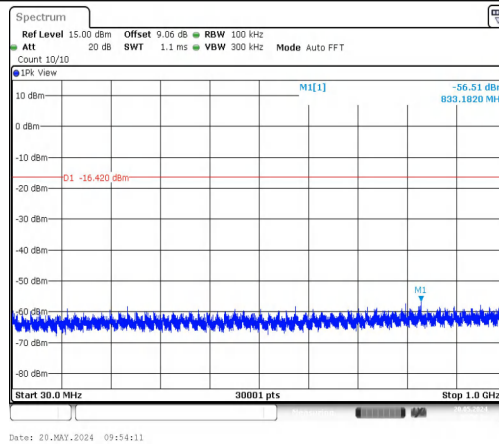
BLE_2M-Ant1-2440-30~1000-PASS



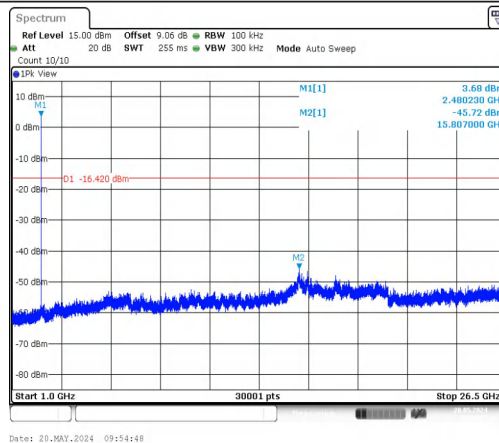
BLE_2M-Ant1-2440-1000~26500-PASS



BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS



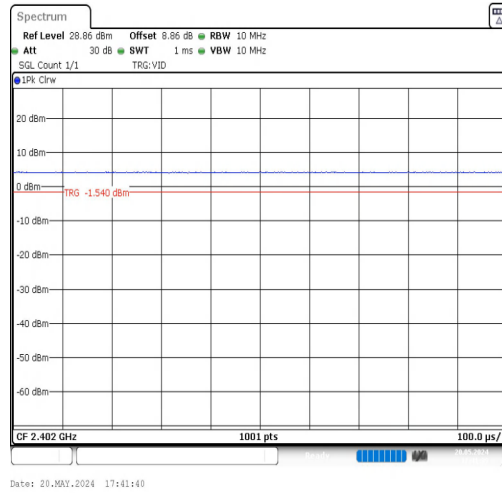
Appendix H: Duty Cycle

Test Result

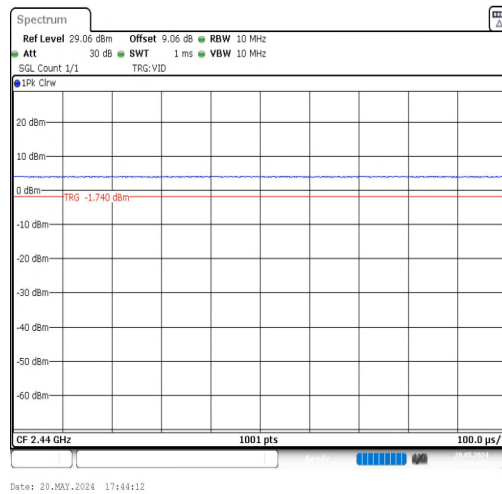
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	1.00	1.00	100	NaN
BLE_1M	Ant1	2440	1.00	1.00	100	NaN
BLE_1M	Ant1	2480	1.00	1.00	100	NaN
BLE_2M	Ant1	2402	1.00	1.00	100	NaN
BLE_2M	Ant1	2440	1.00	1.00	100	NaN
BLE_2M	Ant1	2480	1.00	1.00	100	NaN



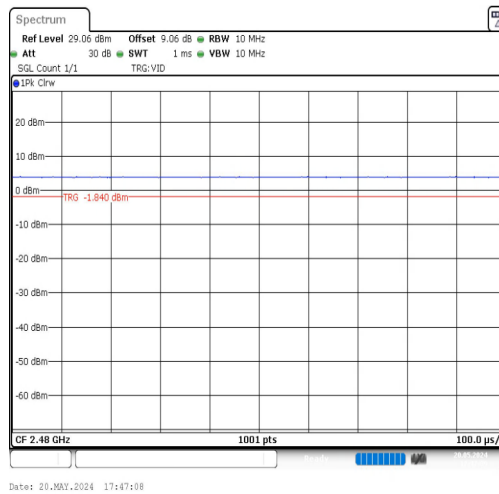
Test Graphs



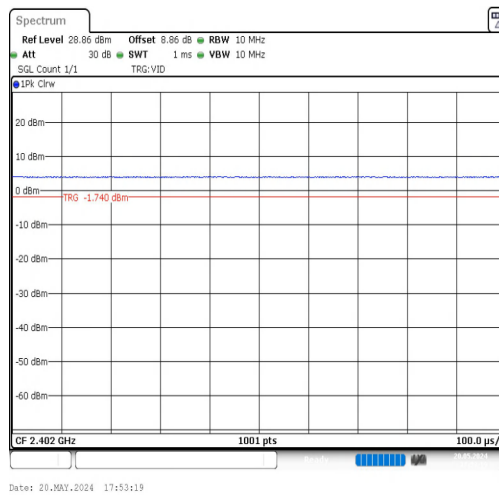
NTNV-BLE_1M-Ant1-2402



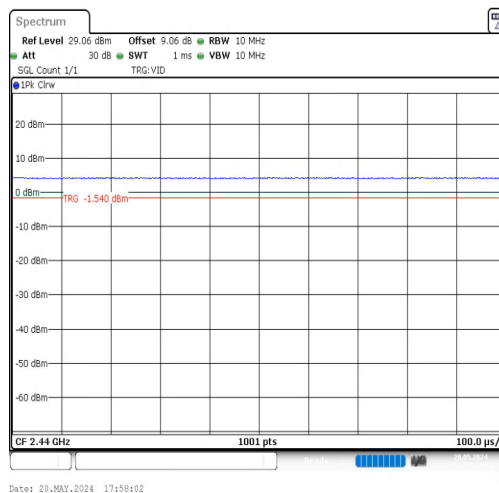
NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480



NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440

