1.1 Appendix A: DTS Bandwidth

1.1.1 Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.70	2401.64	2402.34	0.5	PASS
		2440	0.67	2439.66	2440.33	0.5	PASS
		2480	0.69	2479.65	2480.34	0.5	PASS
BLE_2M	Ant1	2402	1.12	2401.46	2402.58	0.5	PASS
		2440	1.16	2439.43	2440.59	0.5	PASS
		2480	1.12	2479.44	2480.56	0.5	PASS

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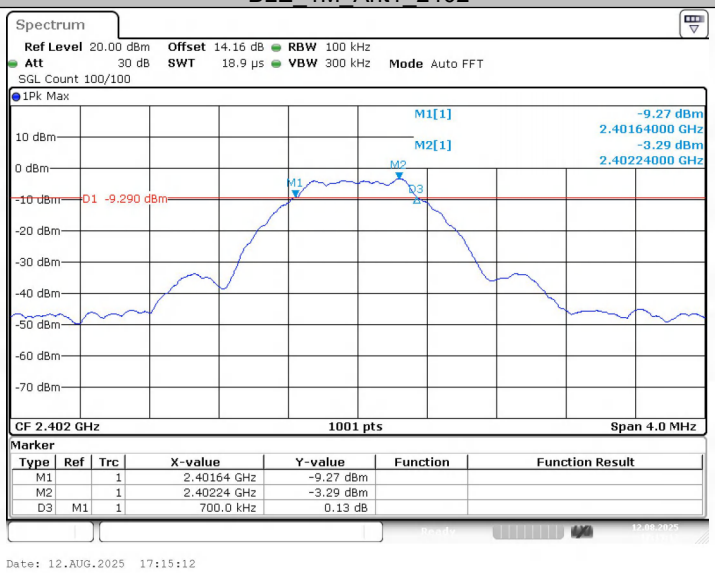
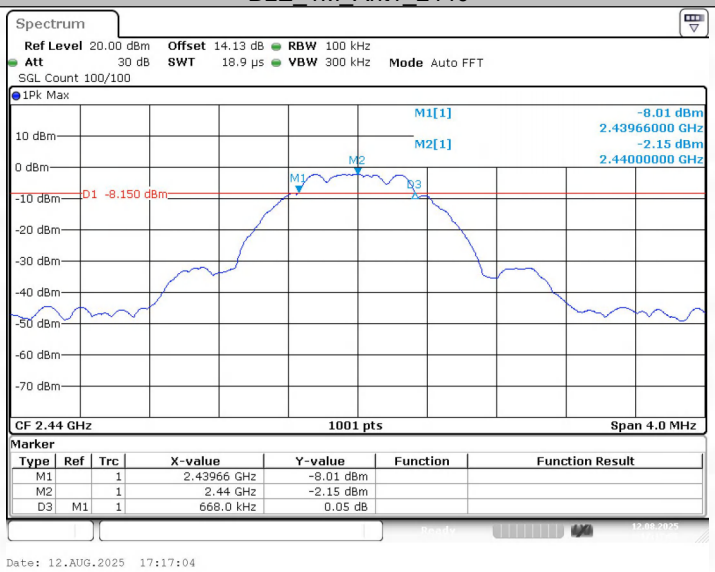
1.1.2 Test Graphs

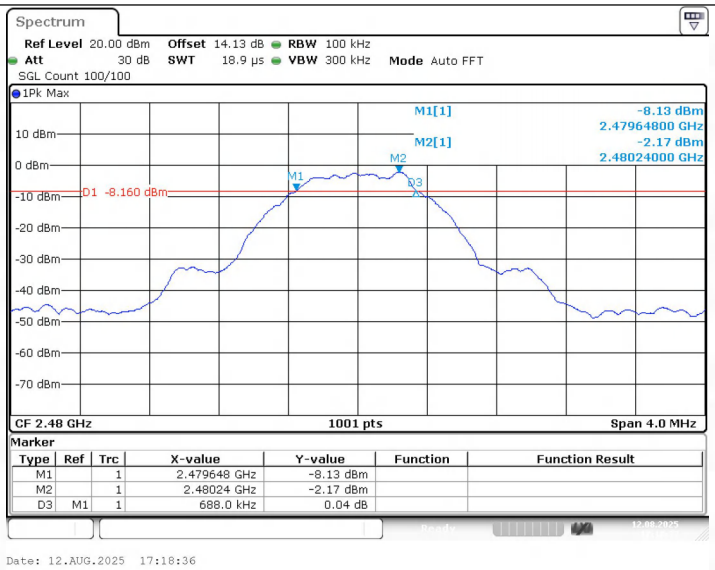
BLE_1M_Ant1_2402



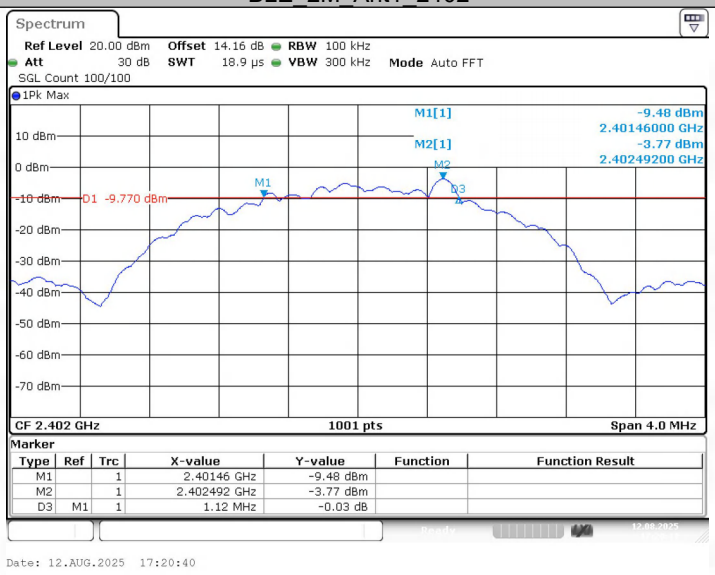
BLE_1M_Ant1_2440



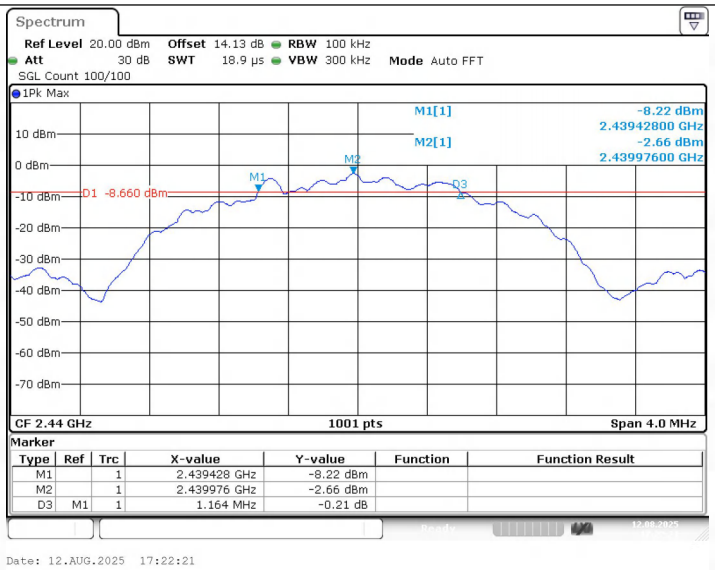
BLE_1M_Ant1_2480



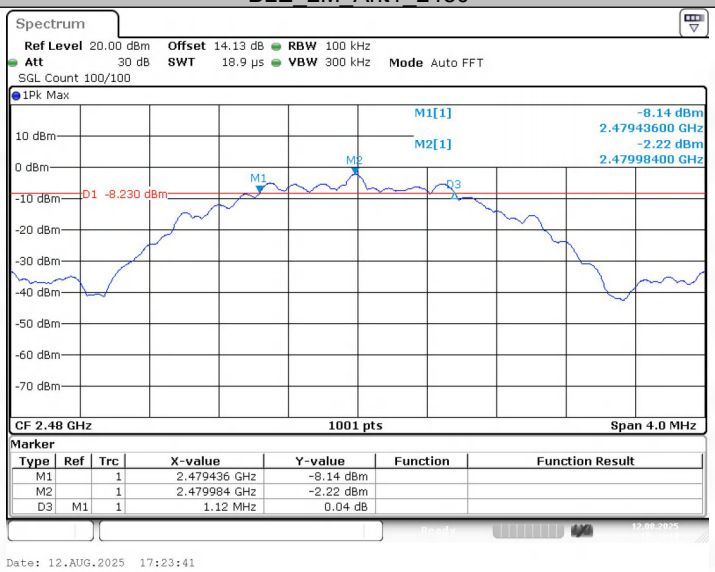
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



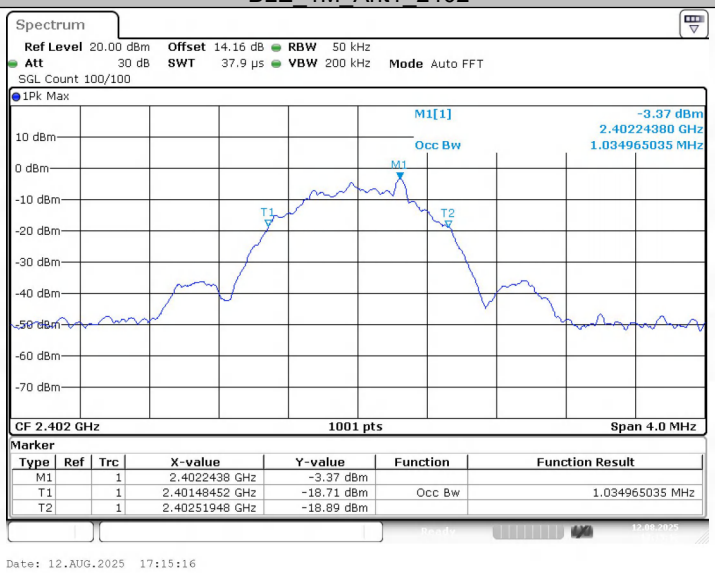
1.2 Appendix B: Occupied Channel Bandwidth

1.2.1 Test Result

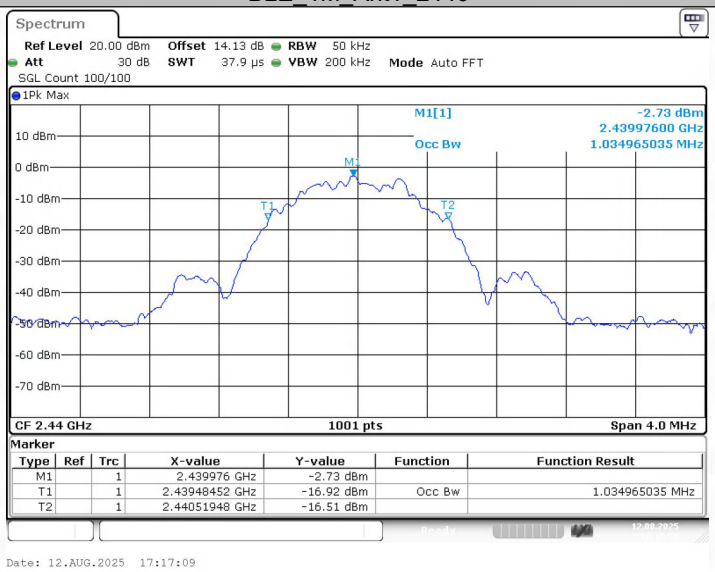
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0350	2401.4845	2402.5195	---	---
		2440	1.0350	2439.4845	2440.5195	---	---
		2480	1.0470	2479.4765	2480.5235	---	---
BLE_2M	Ant1	2402	2.0899	2400.9650	2403.0549	---	---
		2440	2.0659	2438.9770	2441.0430	---	---
		2480	2.0779	2478.9690	2481.0470	---	---

1.2.2 Test Graphs

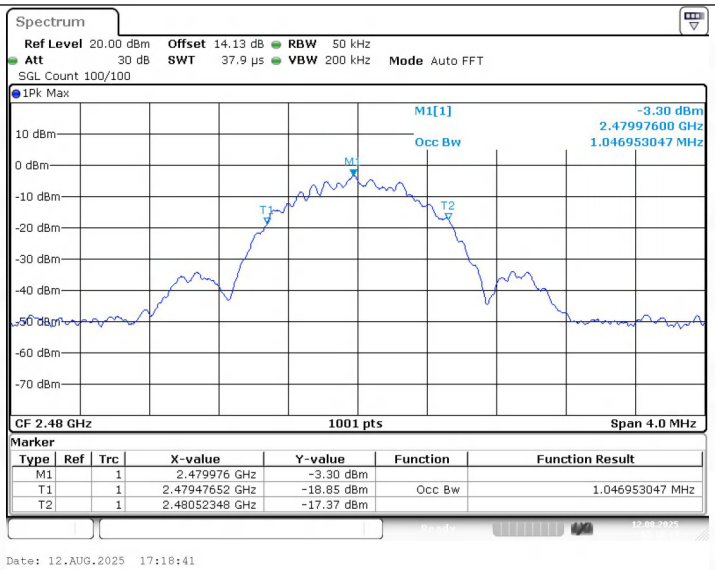
BLE_1M_Ant1_2402



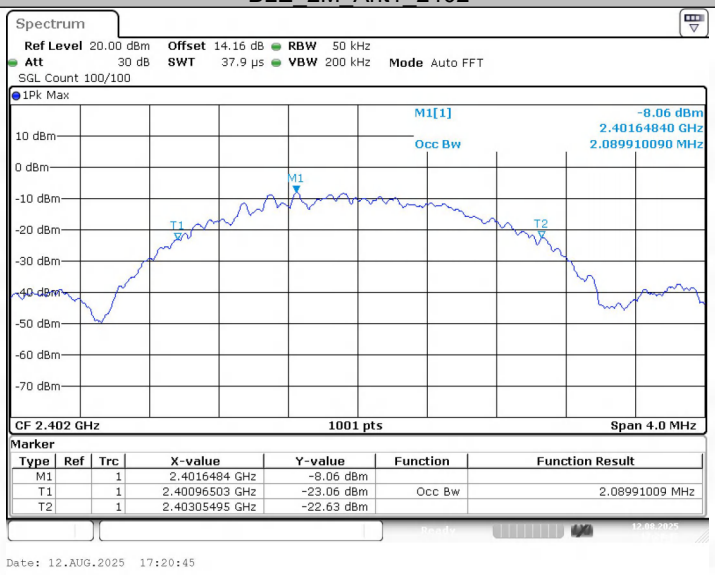
BLE_1M_Ant1_2440



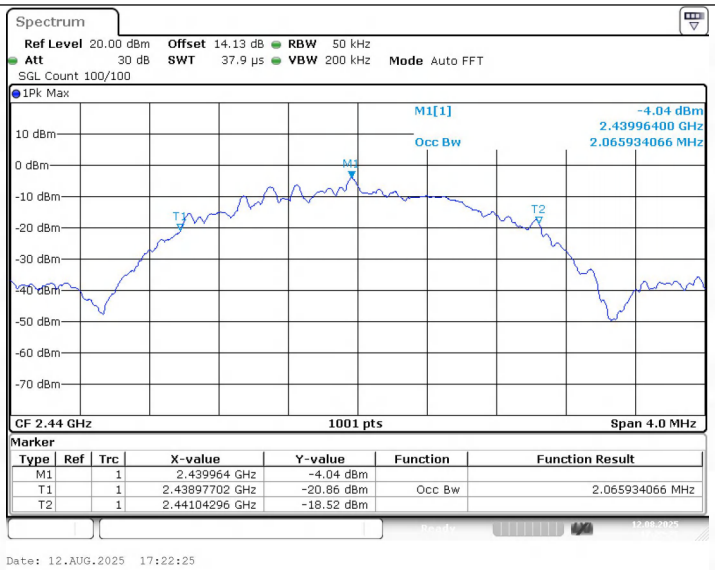
BLE_1M_Ant1_2480



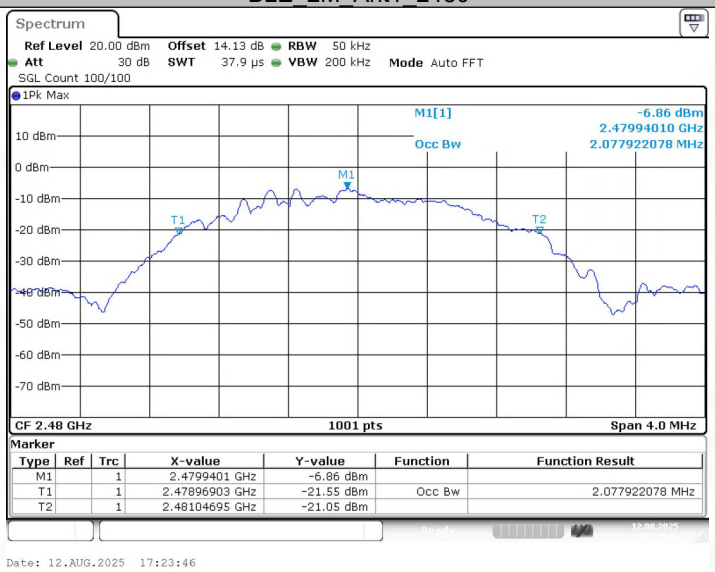
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



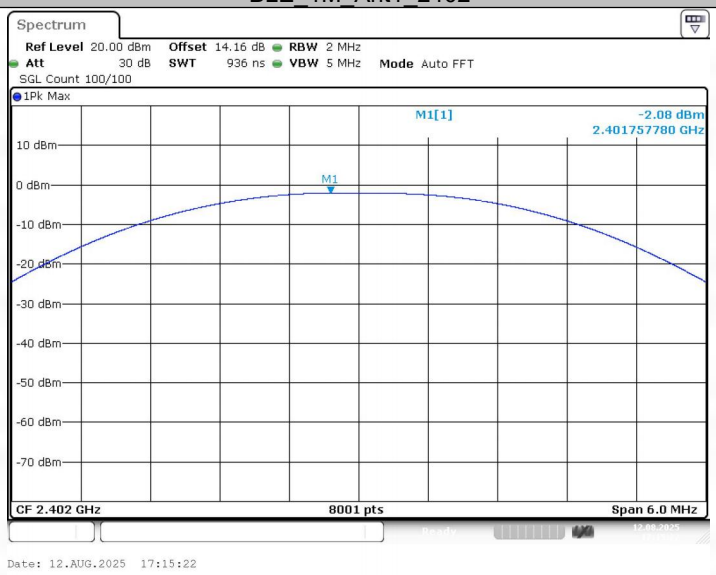
1.3 Appendix C: Maximum conducted output power

1.3.1 Test Result Peak

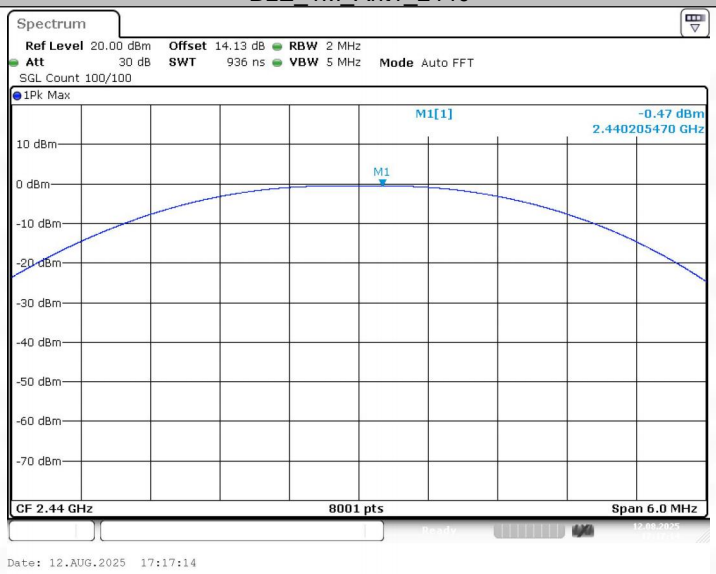
TestMode	Antenna	Freq(MHz)	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.08	≤30	PASS
		2440	-0.47	≤30	PASS
		2480	-1.01	≤30	PASS
BLE_2M	Ant1	2402	-2.21	≤30	PASS
		2440	-0.47	≤30	PASS
		2480	-1.12	≤30	PASS

1.3.2 Test Graphs Peak

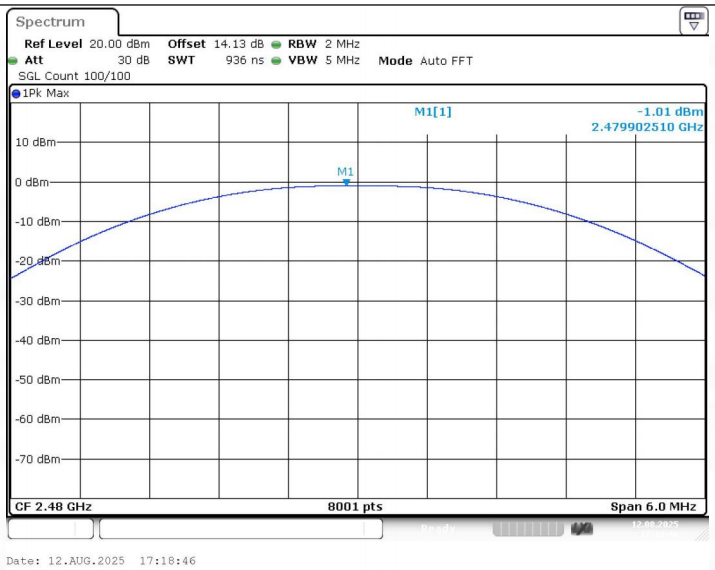
BLE_1M_Ant1_2402



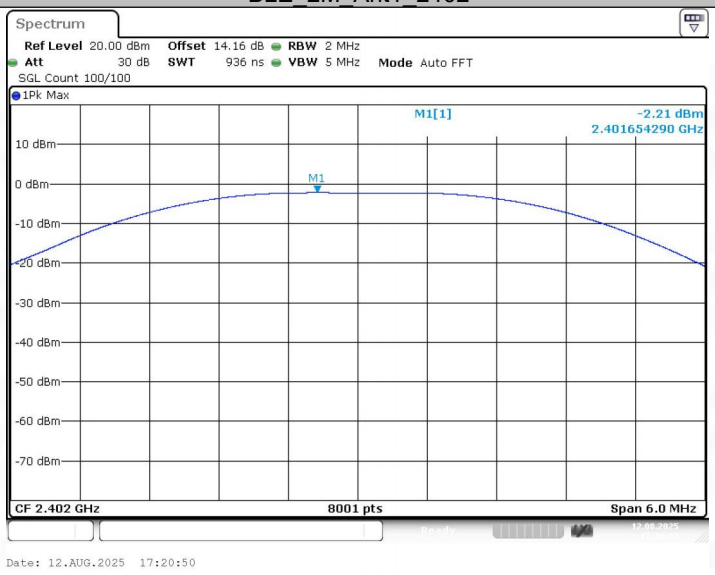
BLE_1M_Ant1_2440



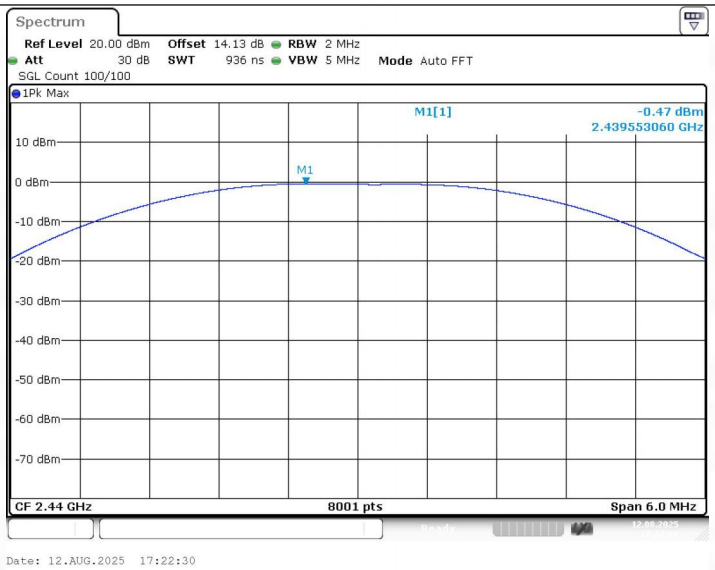
BLE_1M_Ant1_2480



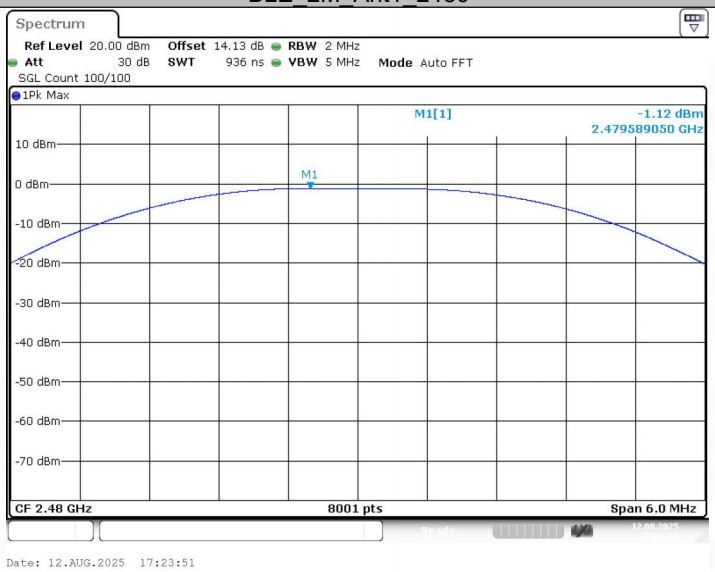
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



1.4 Appendix D: Maximum power spectral density

1.4.1 Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.03	≤8.00	PASS
		2440	-17.02	≤8.00	PASS
		2480	-17.93	≤8.00	PASS
BLE_2M	Ant1	2402	-20.97	≤8.00	PASS
		2440	-19.37	≤8.00	PASS
		2480	-19.79	≤8.00	PASS

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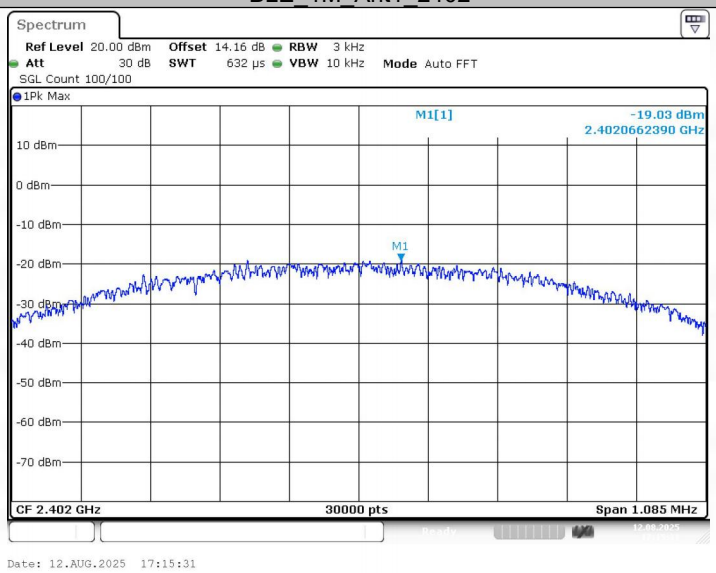
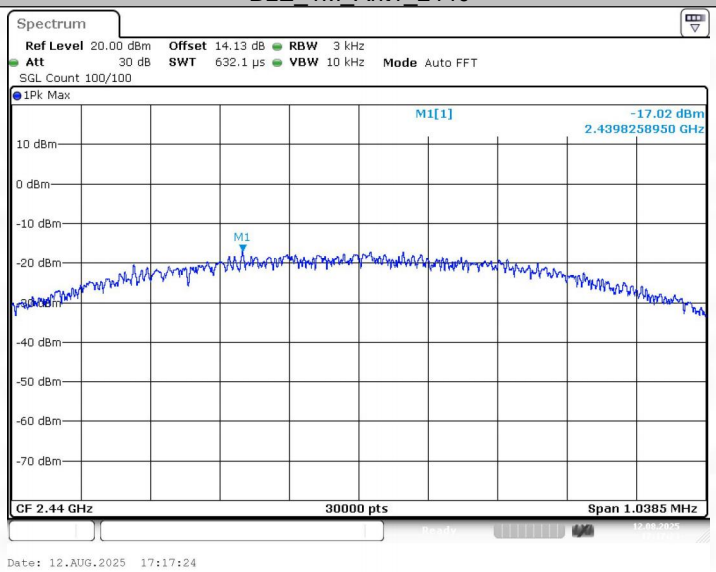
1.4.2 Test Graphs

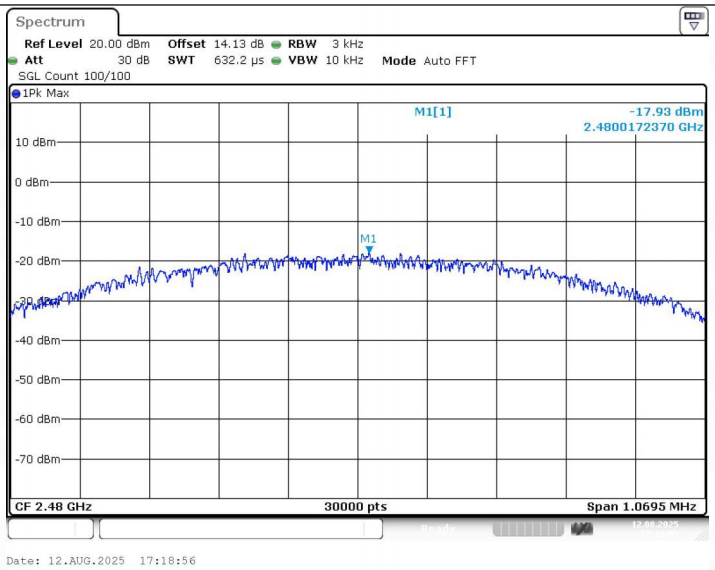
BLE_1M_Ant1_2402



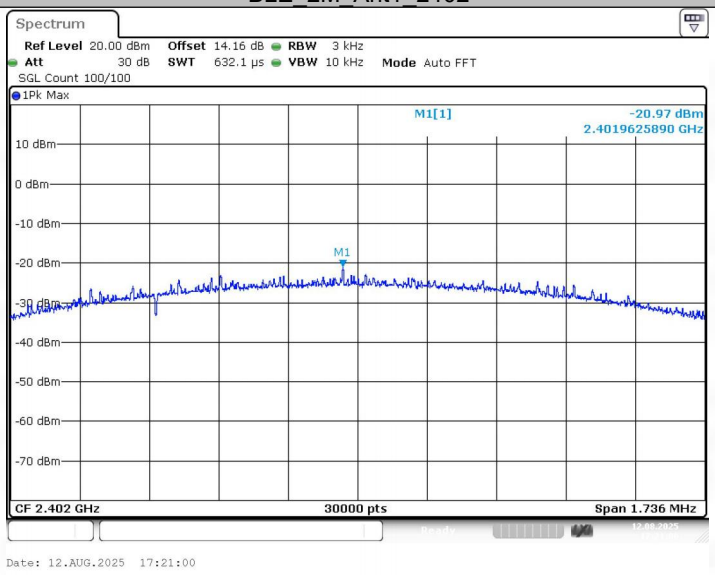
BLE_1M_Ant1_2440



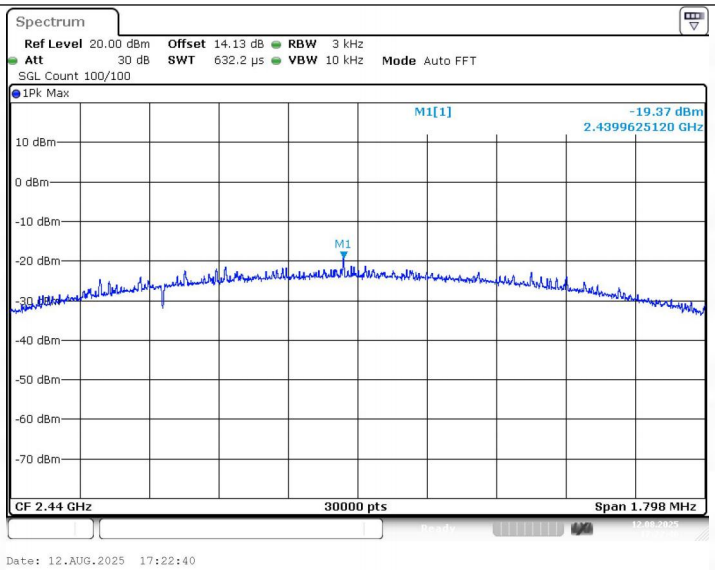
BLE_1M_Ant1_2480



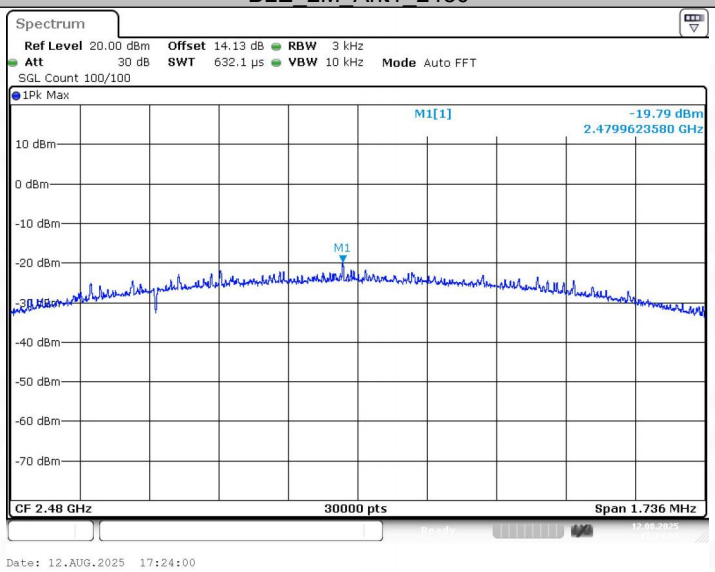
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



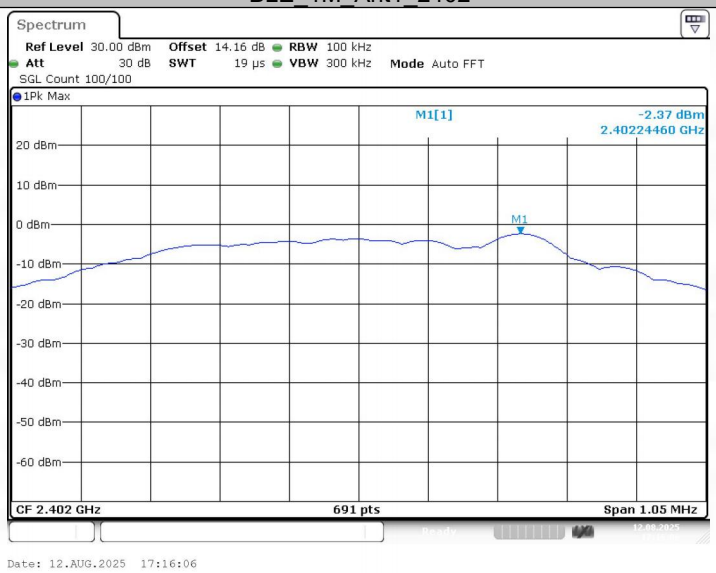
1.5 ppendix E: Reference level measurement

1.5.1 Test Result

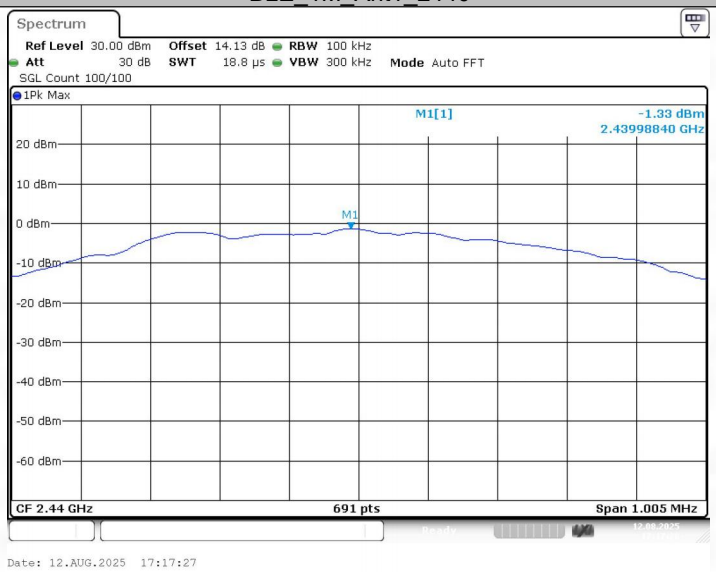
TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2402.24	-2.37
		2440	2439.99	-1.33
		2480	2480.25	-1.42
BLE_2M	Ant1	2402	2401.99	-3.17
		2440	2439.50	-4.13
		2480	2479.50	-4.61

1.5.2 Test Graphs

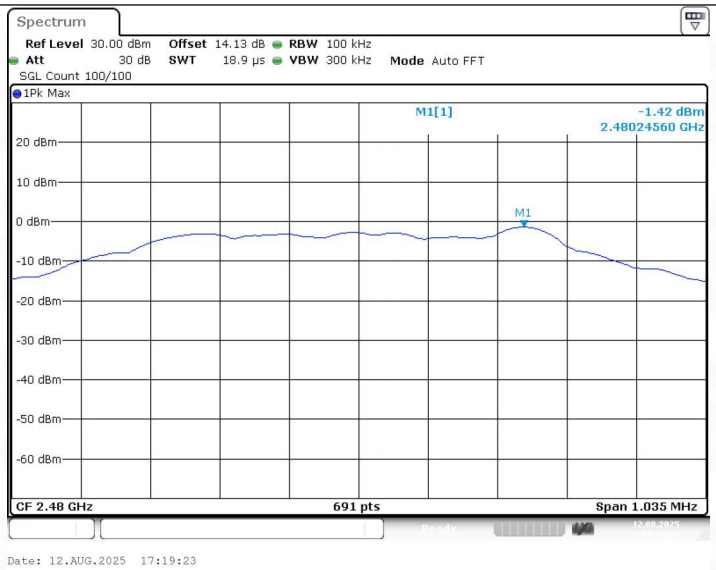
BLE_1M_Ant1_2402



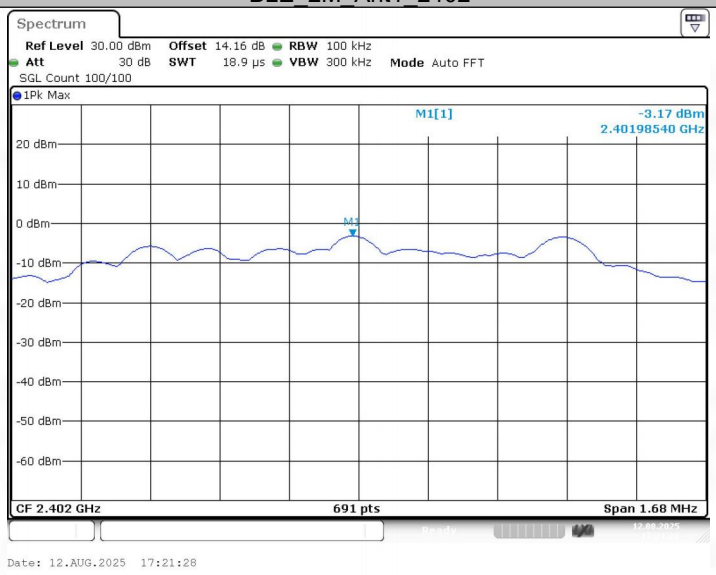
BLE_1M_Ant1_2440



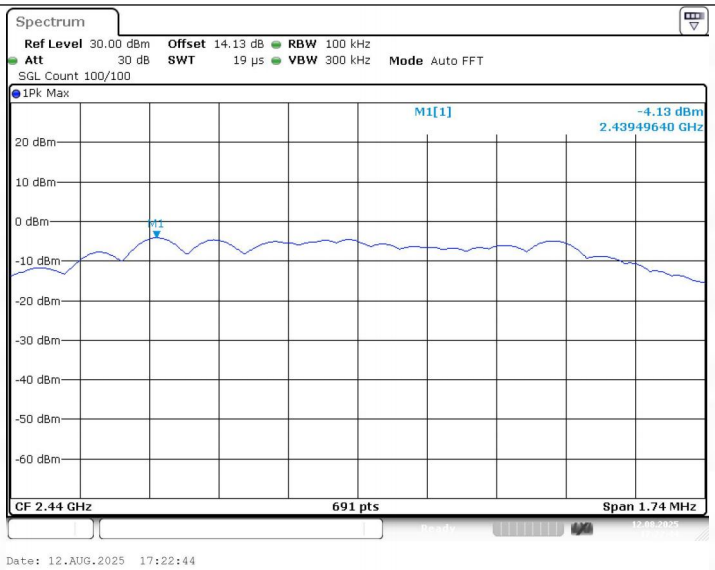
BLE_1M_Ant1_2480



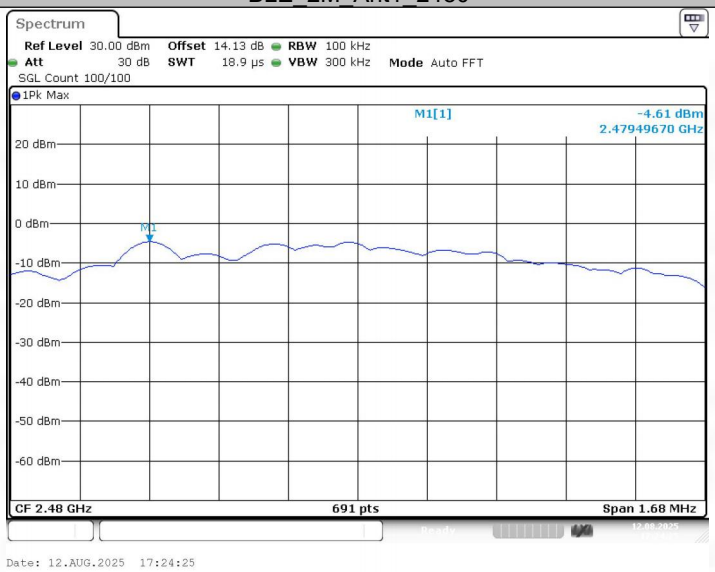
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



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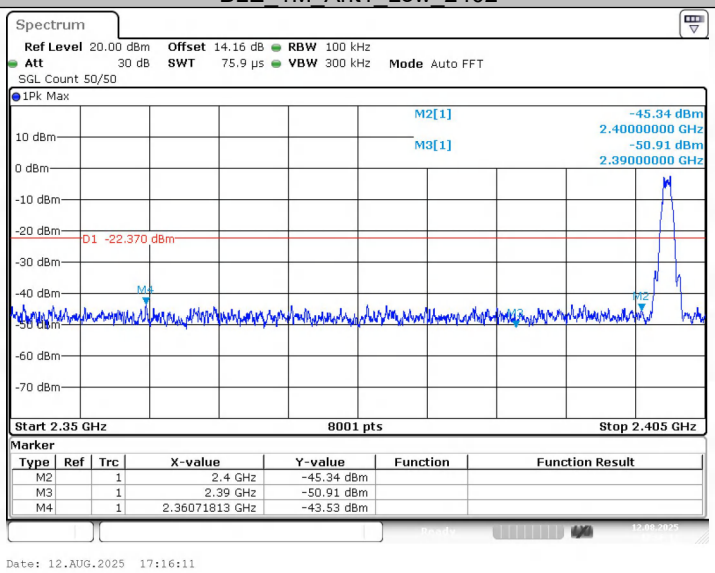
1.6 Appendix F: Band edge measurements

1.6.1 Test Result

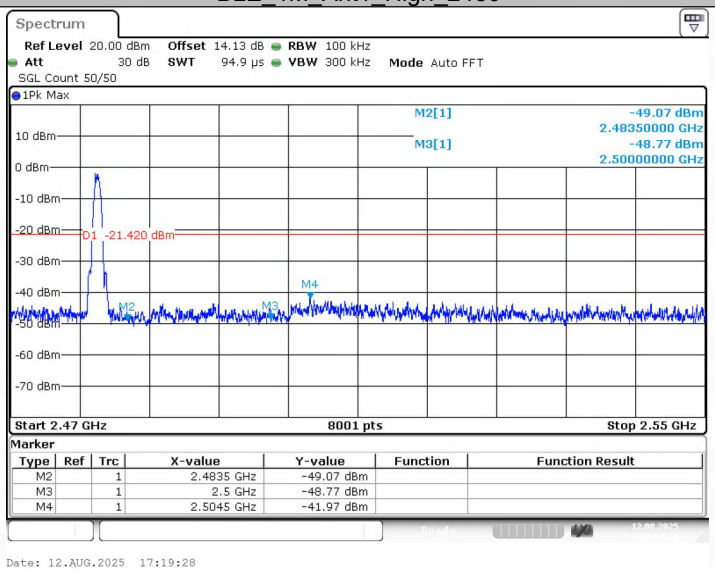
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.37	-43.53	≤-22.37	PASS
		High	2480	-1.42	-41.97	≤-21.42	PASS
BLE_2M	Ant1	Low	2402	-3.17	-39.16	≤-23.17	PASS
		High	2480	-4.61	-41.93	≤-24.61	PASS

1.6.2 Test Graphs

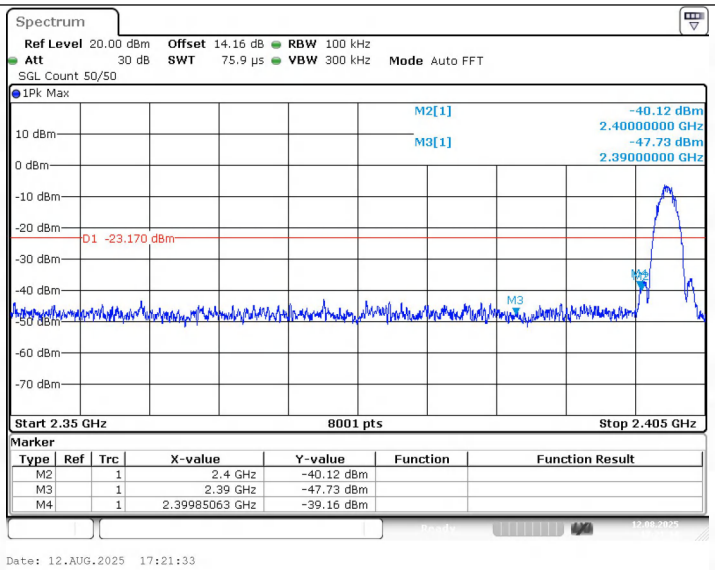
BLE_1M_Ant1_Low_2402



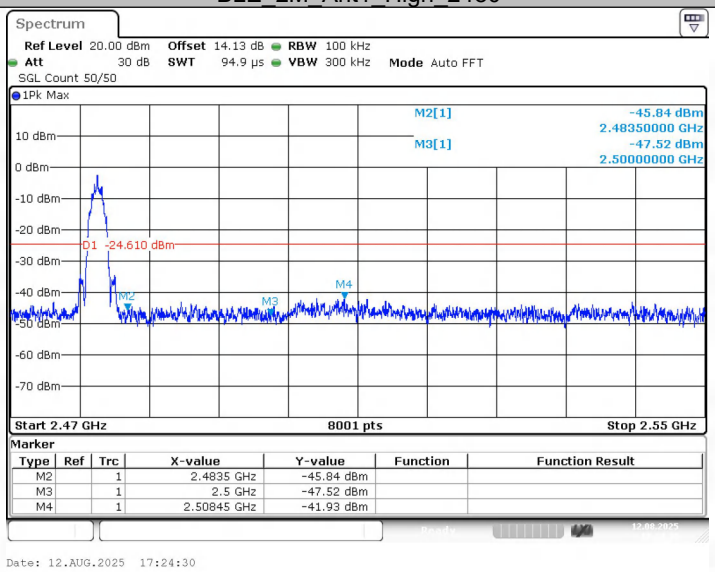
BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402



BLE_2M_Ant1_High_2480



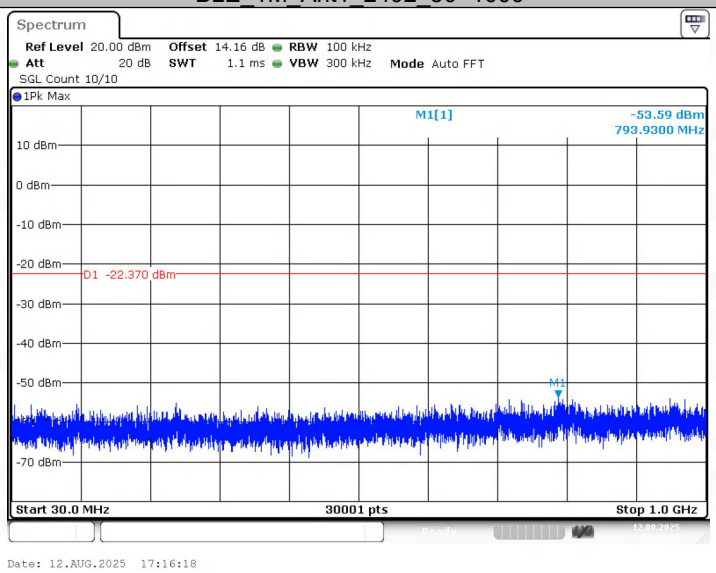
1.7 Appendix G: Conducted Spurious Emission

1.7.1 Test Result

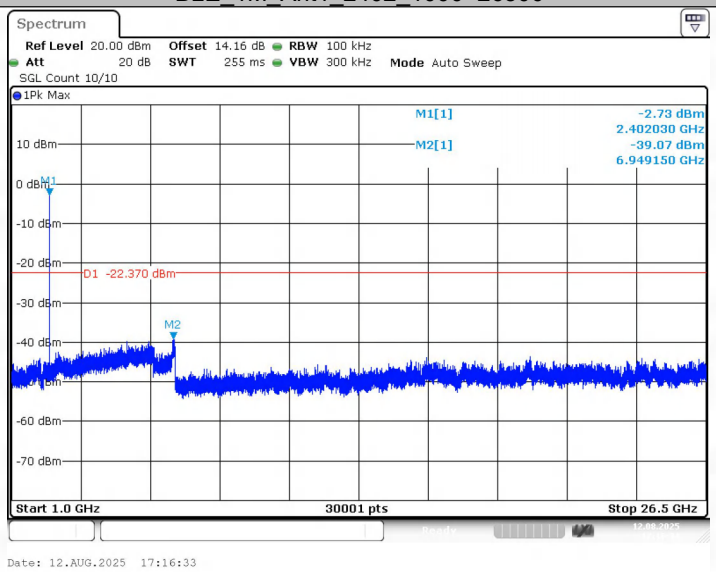
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	-2.37	-53.59	≤-22.37	PASS
			1000~26500	-2.37	-39.07	≤-22.37	PASS
		2440	30~1000	-1.33	-53.07	≤-21.33	PASS
			1000~26500	-1.33	-38.42	≤-21.33	PASS
		2480	30~1000	-1.42	-53.71	≤-21.42	PASS
			1000~26500	-1.42	-38.99	≤-21.42	PASS
BLE_2M	Ant1	2402	30~1000	-3.17	-52.18	≤-23.17	PASS
			1000~26500	-3.17	-37.29	≤-23.17	PASS
		2440	30~1000	-4.13	-53.21	≤-24.13	PASS
			1000~26500	-4.13	-39.31	≤-24.13	PASS
		2480	30~1000	-4.61	-53.01	≤-24.61	PASS
			1000~26500	-4.61	-38.23	≤-24.61	PASS

1.7.2 Test Graphs

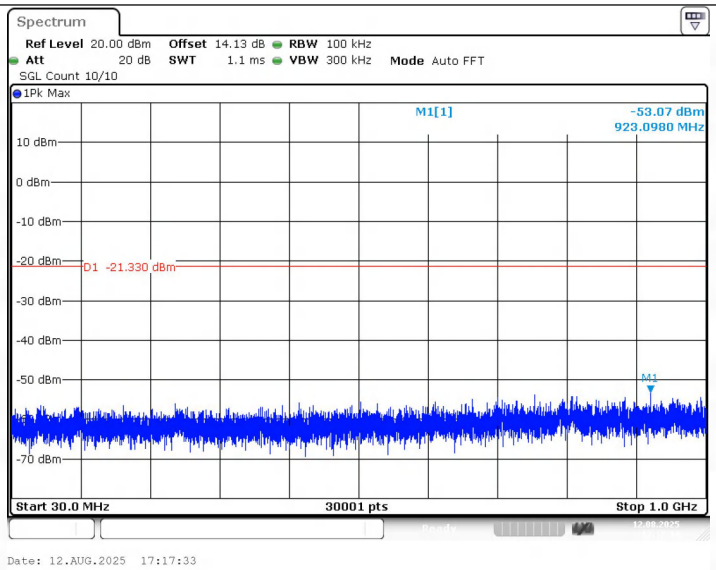
BLE_1M_Ant1_2402_30~1000



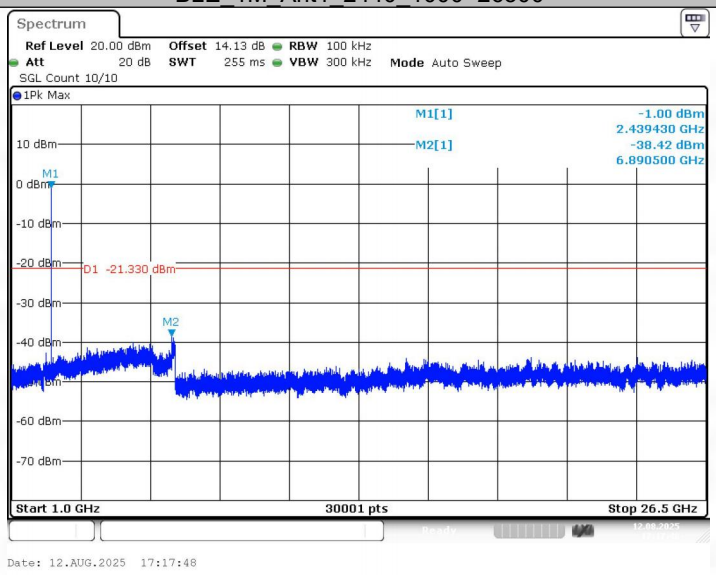
BLE_1M_Ant1_2402_1000~26500



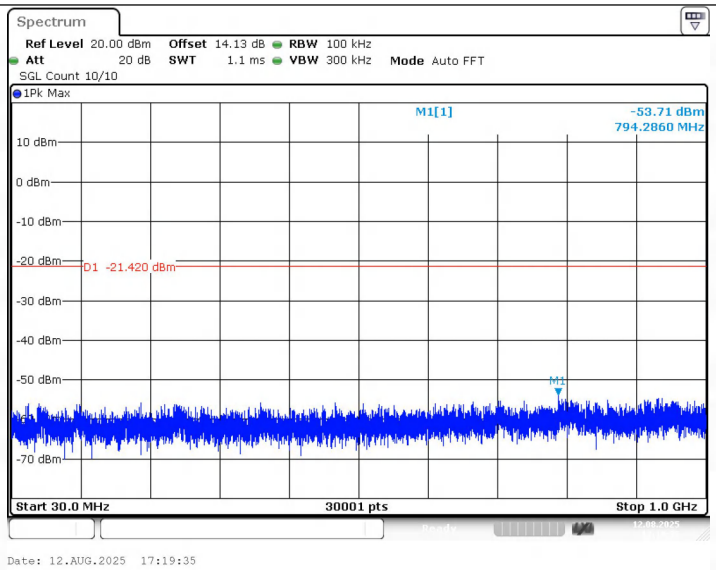
BLE_1M_Ant1_2440_30~1000



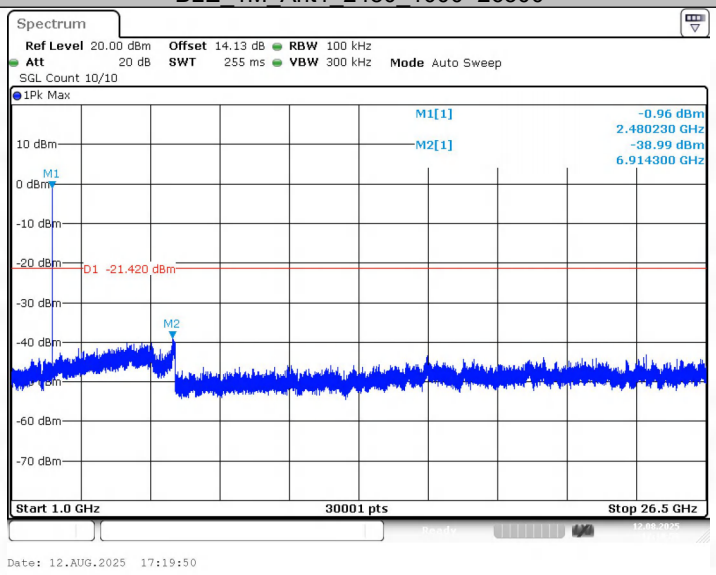
BLE_1M_Ant1_2440_1000~26500



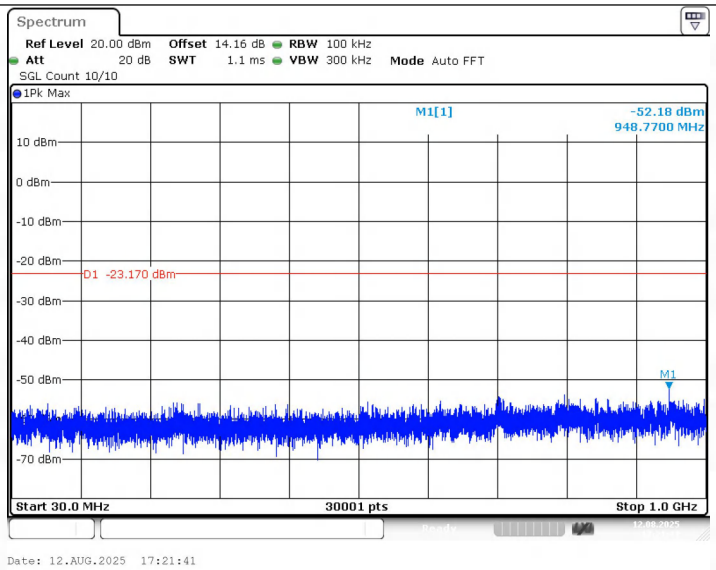
BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_30~1000



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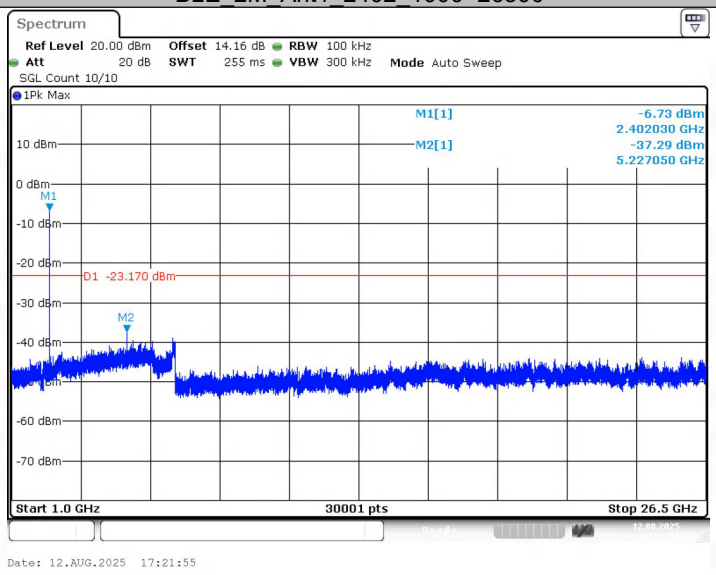
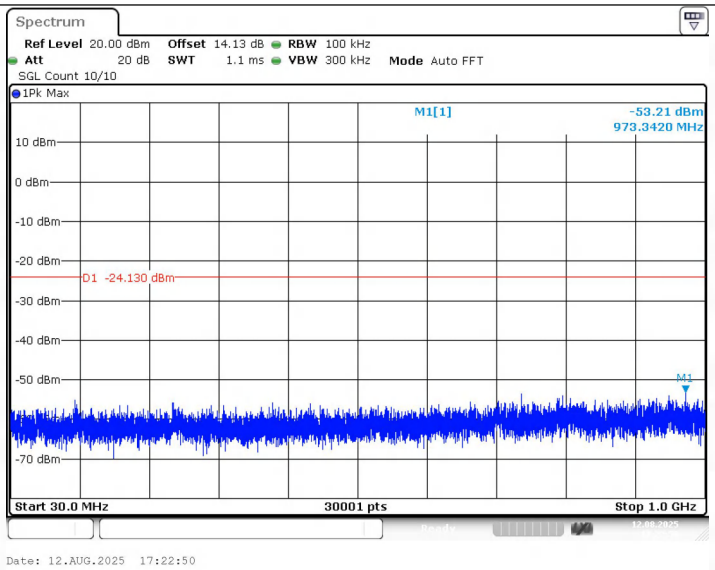
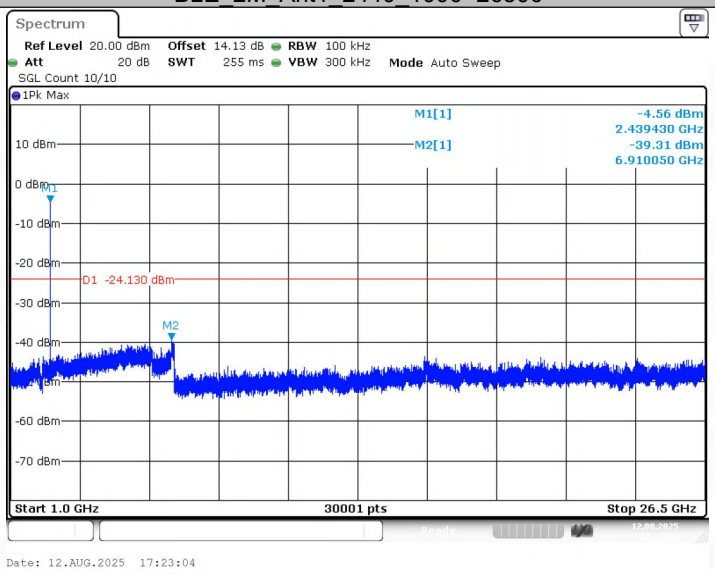


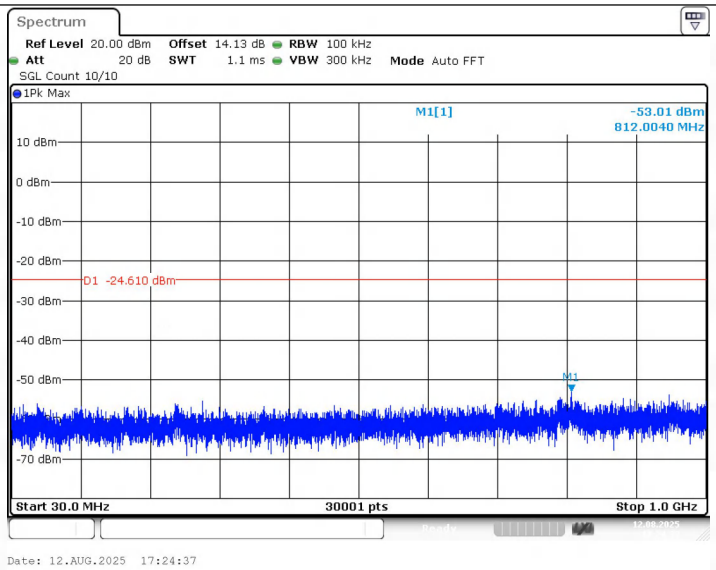
BLE_2M_Ant1_2440_30~1000



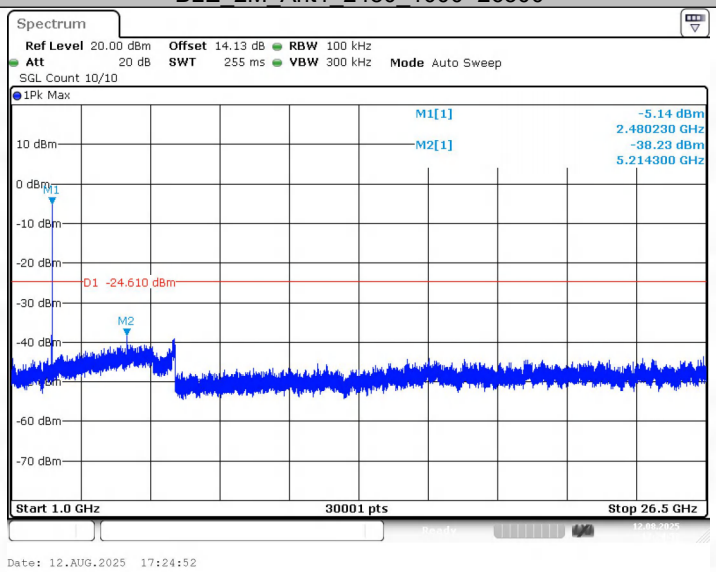
BLE_2M_Ant1_2440_1000~26500



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500



1.8 Appendix H: Duty Cycle

1.8.1 Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	2.13	2.50	0.8520	85.20	0.70	---	---
		2440	2.11	2.49	0.8474	84.74	0.72	---	---
		2480	2.13	2.51	0.8486	84.86	0.71	---	---
BLE_2M	Ant1	2402	1.08	1.88	0.5745	57.45	2.41	---	---
		2440	1.06	1.87	0.5668	56.68	2.47	---	---
		2480	1.06	1.87	0.5668	56.68	2.47	---	---

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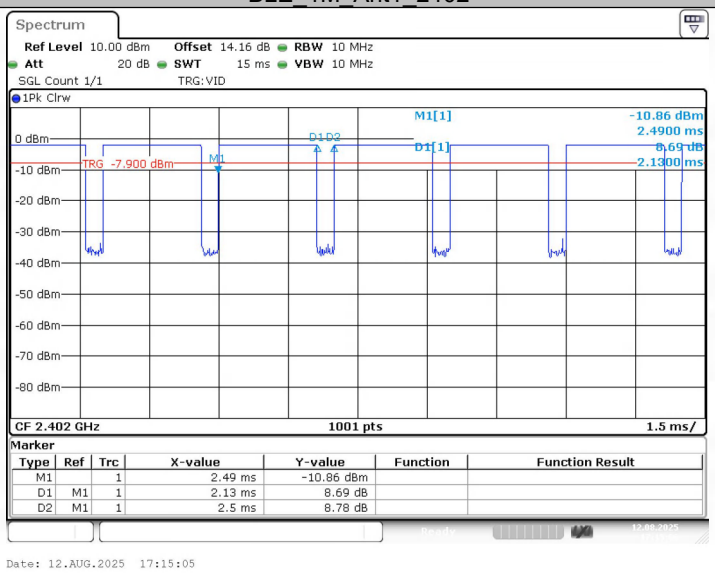
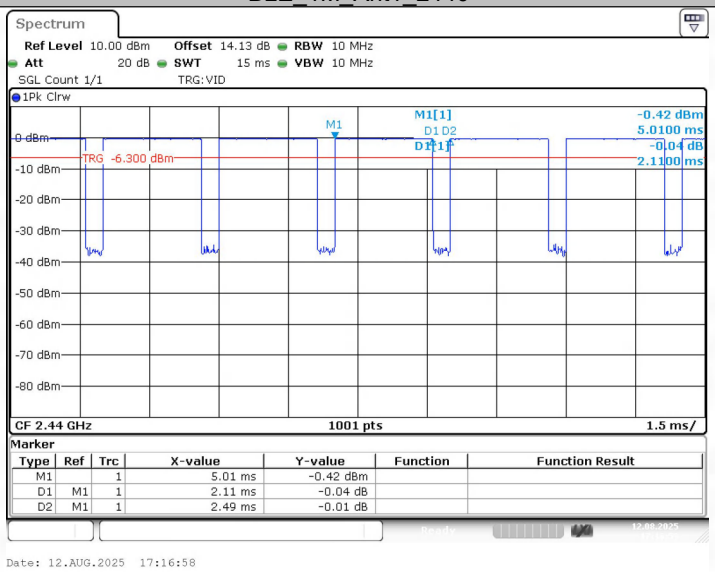
1.8.2 Test Graphs

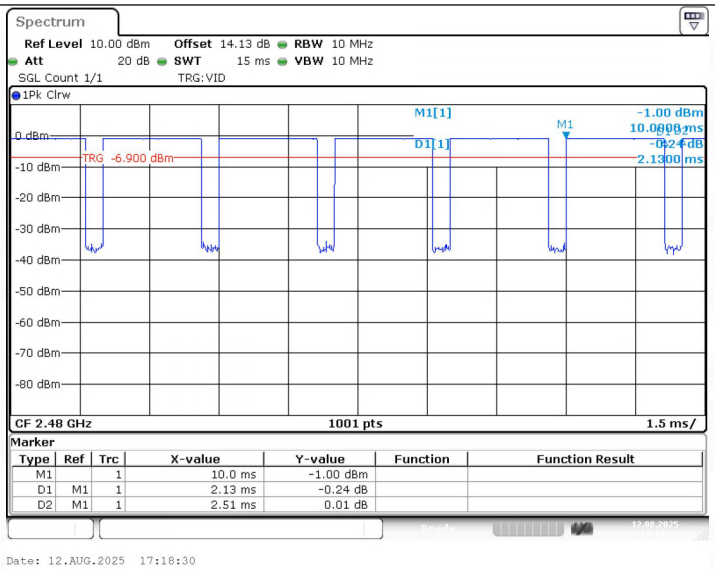
BLE_1M_Ant1_2402



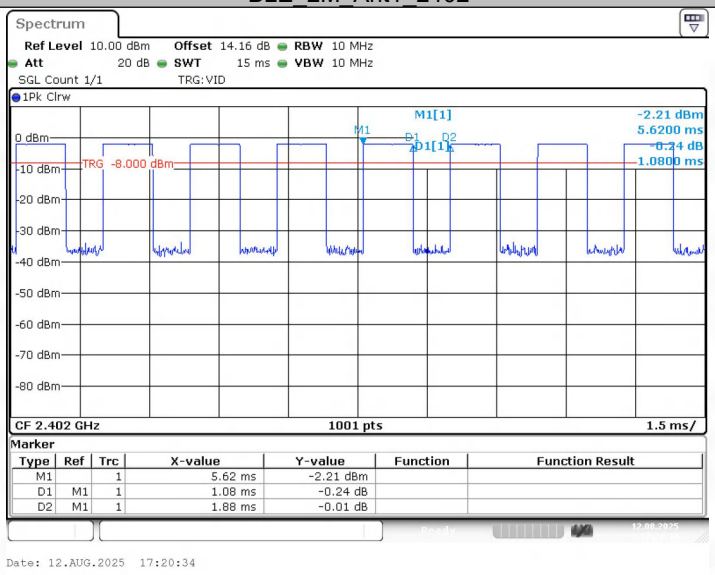
BLE_1M_Ant1_2440



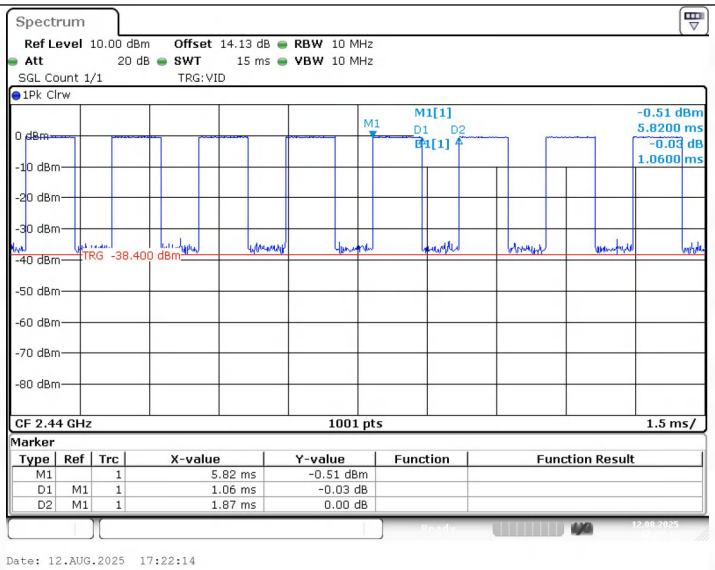
BLE_1M_Ant1_2480



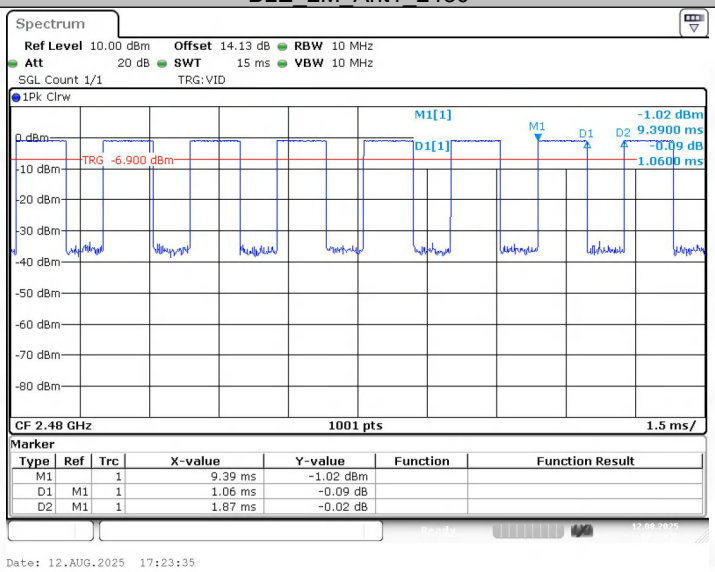
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



1.9 Appendix I: Emissions in Restricted Bands

1.9.1 Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-53.69	≤-41.20	41.51	≤54	PASS
				AV	2341.391	-51.94	≤-41.20	43.26	≤54	PASS
				AV	2390.000	-54.19	≤-41.20	41.01	≤54	PASS
				Peak	2310.000	-45.27	≤-21.20	49.93	≤74	PASS
				Peak	2379.435	-41.29	≤-21.20	53.91	≤74	PASS
				Peak	2390.000	-45.19	≤-21.20	50.01	≤74	PASS
		High	2480	AV	2483.500	-53.7	≤-41.20	41.50	≤54	PASS
				AV	2486.812	-53.18	≤-41.20	42.02	≤54	PASS
				AV	2500.000	-53.3	≤-41.20	41.90	≤54	PASS
				Peak	2483.500	-45.8	≤-21.20	49.40	≤74	PASS
				Peak	2492.377	-43.13	≤-21.20	52.07	≤74	PASS
				Peak	2500.000	-44.67	≤-21.20	50.53	≤74	PASS
BLE_2M	Ant1	Low	2402	AV	2310.000	-53.63	≤-41.20	41.57	≤54	PASS
				AV	2340.935	-51.77	≤-41.20	43.43	≤54	PASS
				AV	2390.000	-54.05	≤-41.20	41.15	≤54	PASS
				Peak	2310.000	-43.97	≤-21.20	51.23	≤74	PASS
				Peak	2342.457	-40.68	≤-21.20	54.52	≤74	PASS
				Peak	2390.000	-44.32	≤-21.20	50.88	≤74	PASS
		High	2480	AV	2483.500	-53.12	≤-41.20	42.08	≤54	PASS
				AV	2498.870	-52.82	≤-41.20	42.38	≤54	PASS
				AV	2500.000	-53.33	≤-41.20	41.87	≤54	PASS
				Peak	2483.500	-45.69	≤-21.20	49.51	≤74	PASS
				Peak	2487.971	-42.69	≤-21.20	52.51	≤74	PASS
				Peak	2500.000	-43.39	≤-21.20	51.81	≤74	PASS

Note：
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

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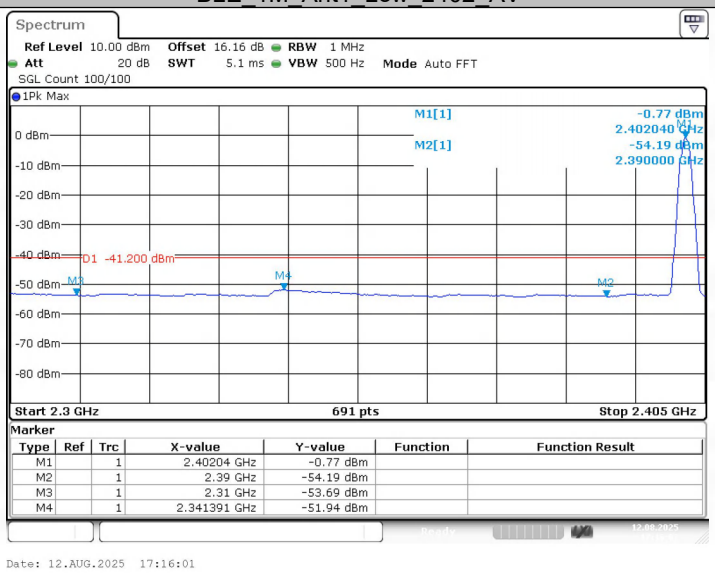
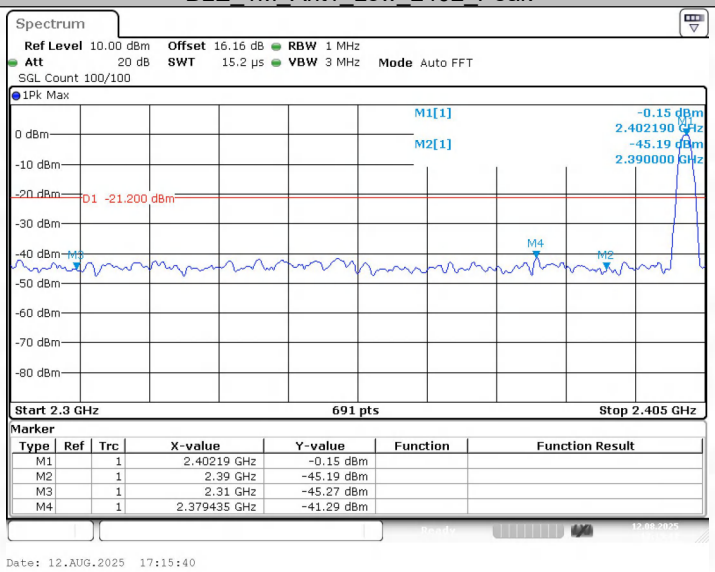
1.9.2 Test Graphs

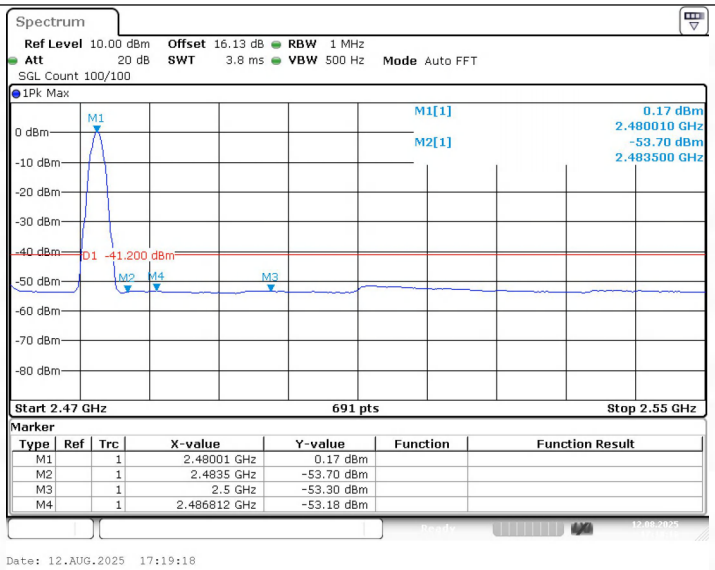
BLE_1M_Ant1_Low_2402_AV



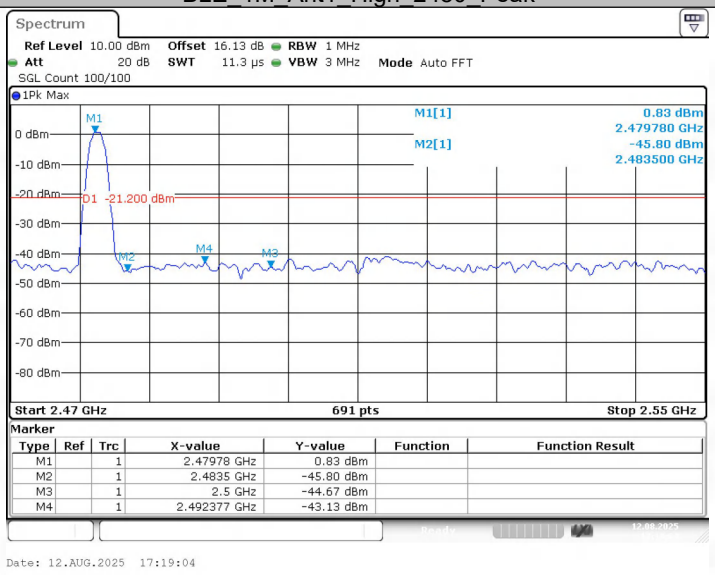
BLE_1M_Ant1_Low_2402_Peak



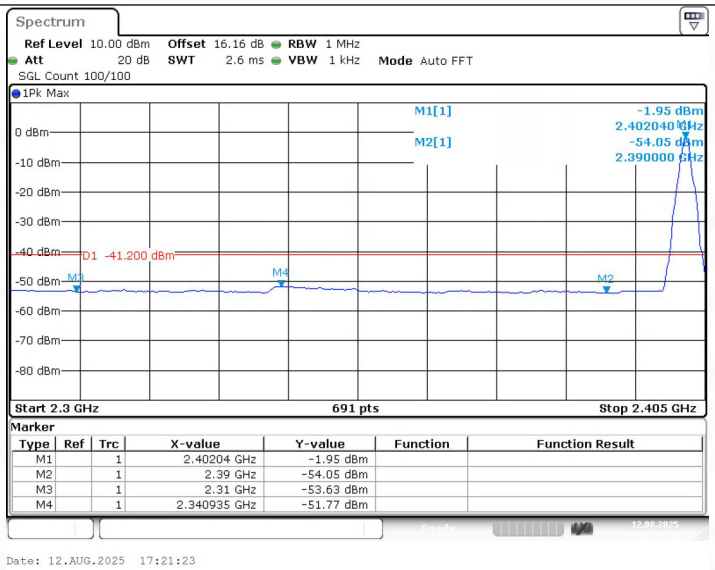
BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak



BLE_2M_Ant1_Low_2402_AV



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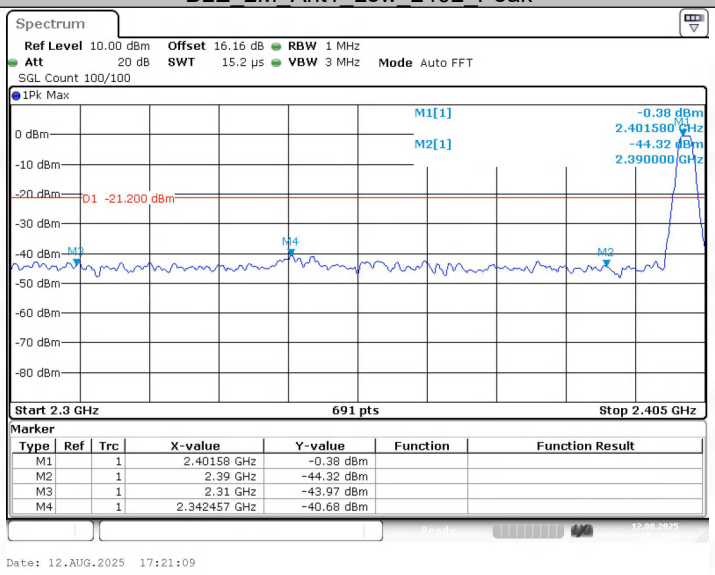

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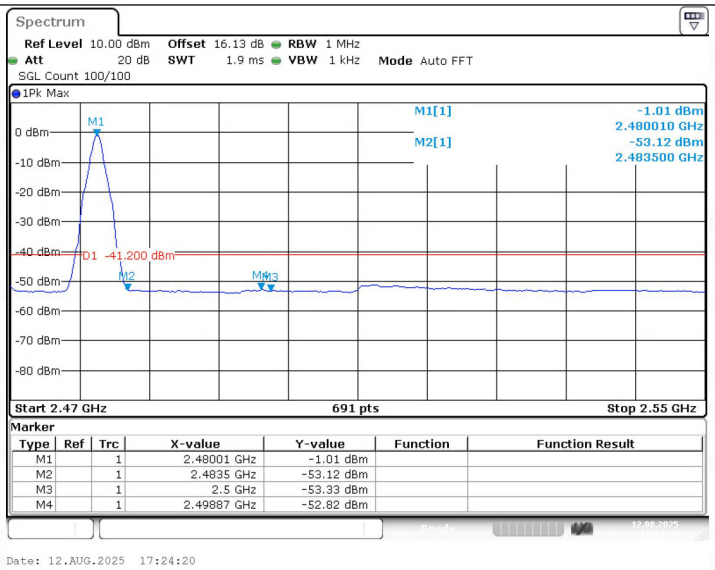
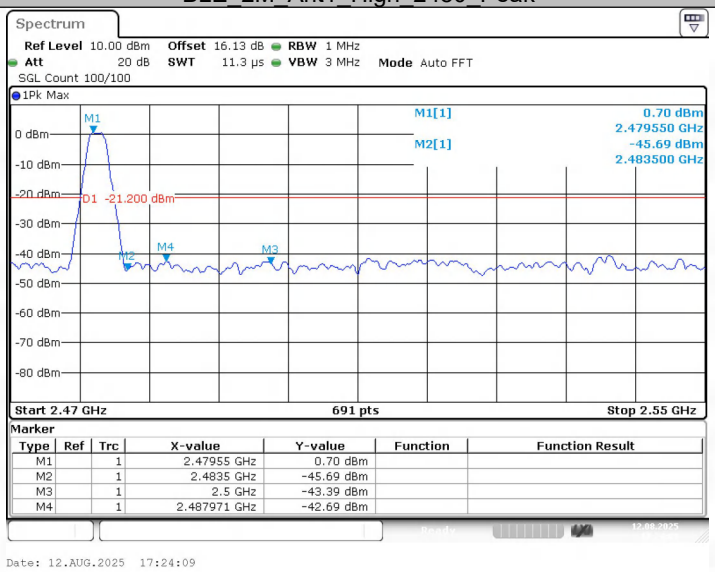
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