

FCC Appendix RF Test Data for BLE

FCC ID : 2BXUR-IS-01

Company : Hengli Home Furnishing (Guangzhou) Co., Ltd.

EUT : Sleep Temperature Control System

Model Number : IS-01

Report No. : CTA26080400501

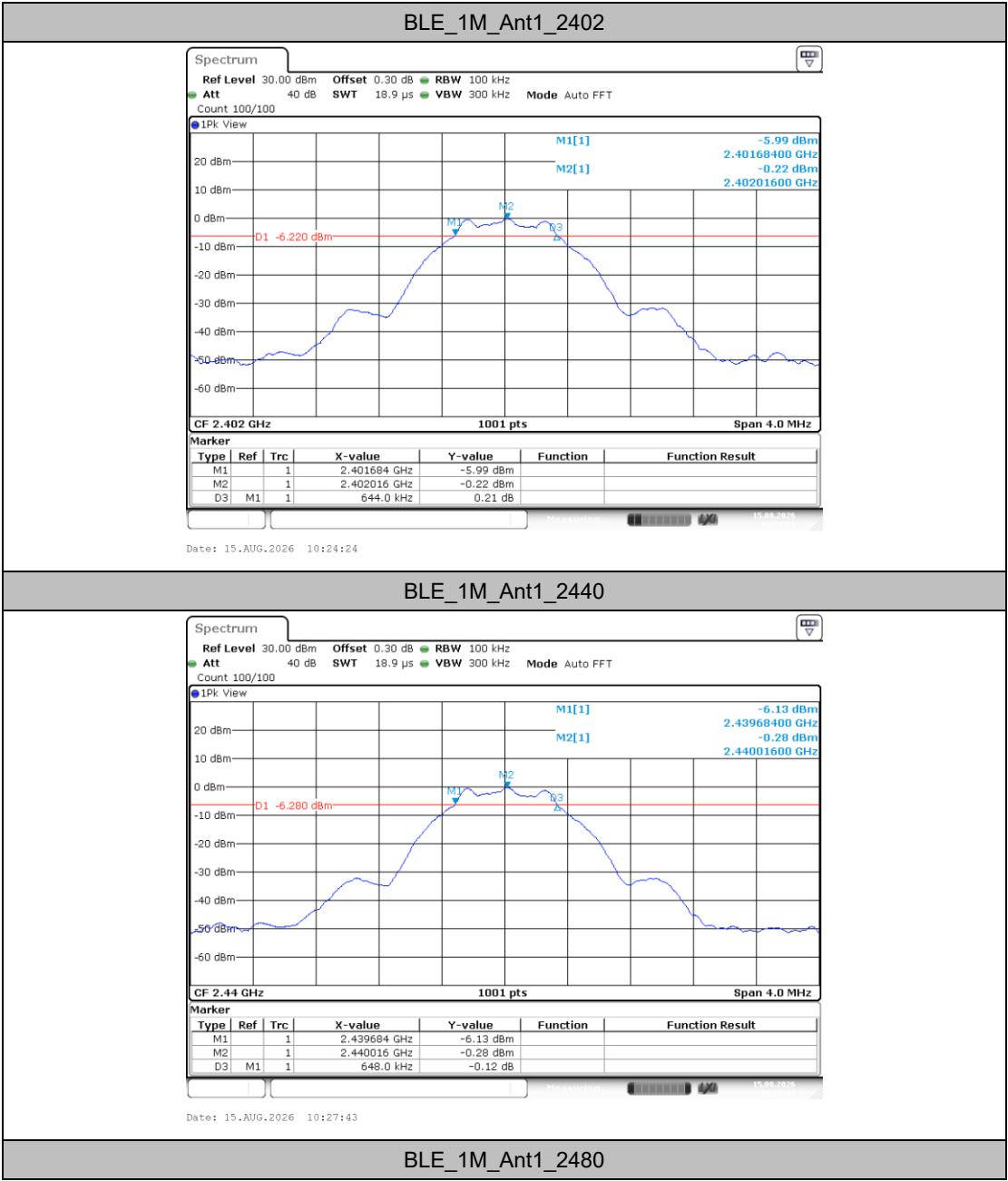
Reviewed By : Eric Wang

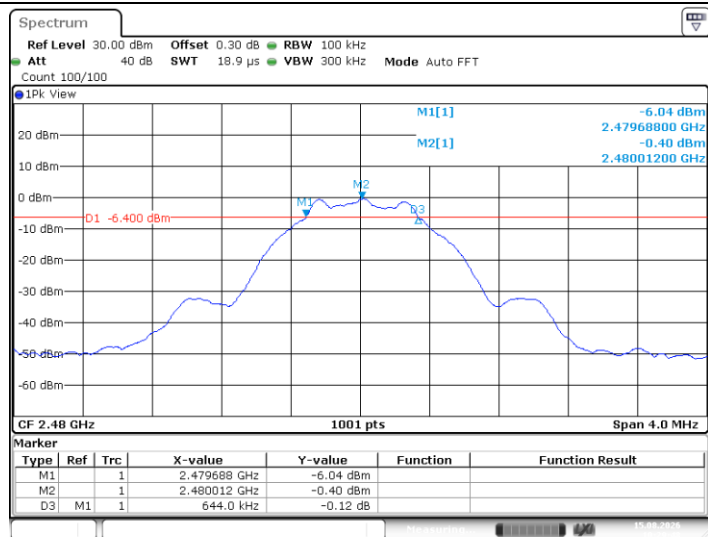
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.64	2401.68	2402.33	0.5	PASS
		2440	0.65	2439.68	2440.33	0.5	PASS
		2480	0.64	2479.69	2480.33	0.5	PASS

Test Graphs





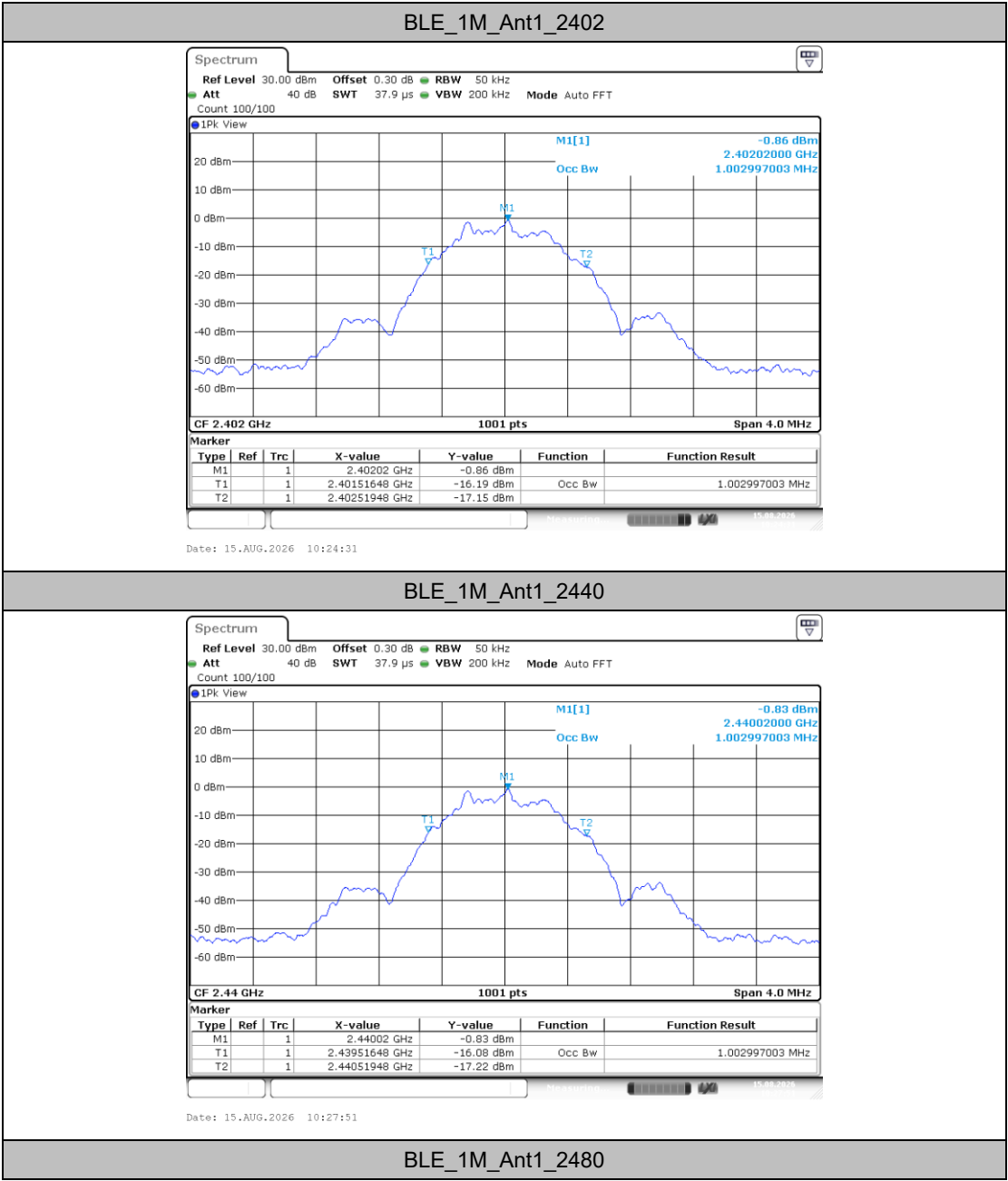
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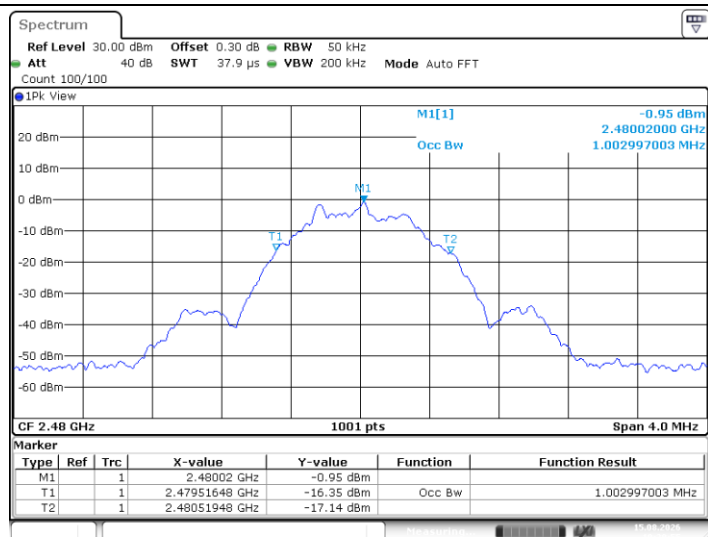
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0030	2401.5165	2402.5195	---	---
		2440	1.0030	2439.5165	2440.5195	---	---
		2480	1.0030	2479.5165	2480.5195	---	---

Test Graphs





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Appendix C: Maximum conducted output power

Test Result Peak

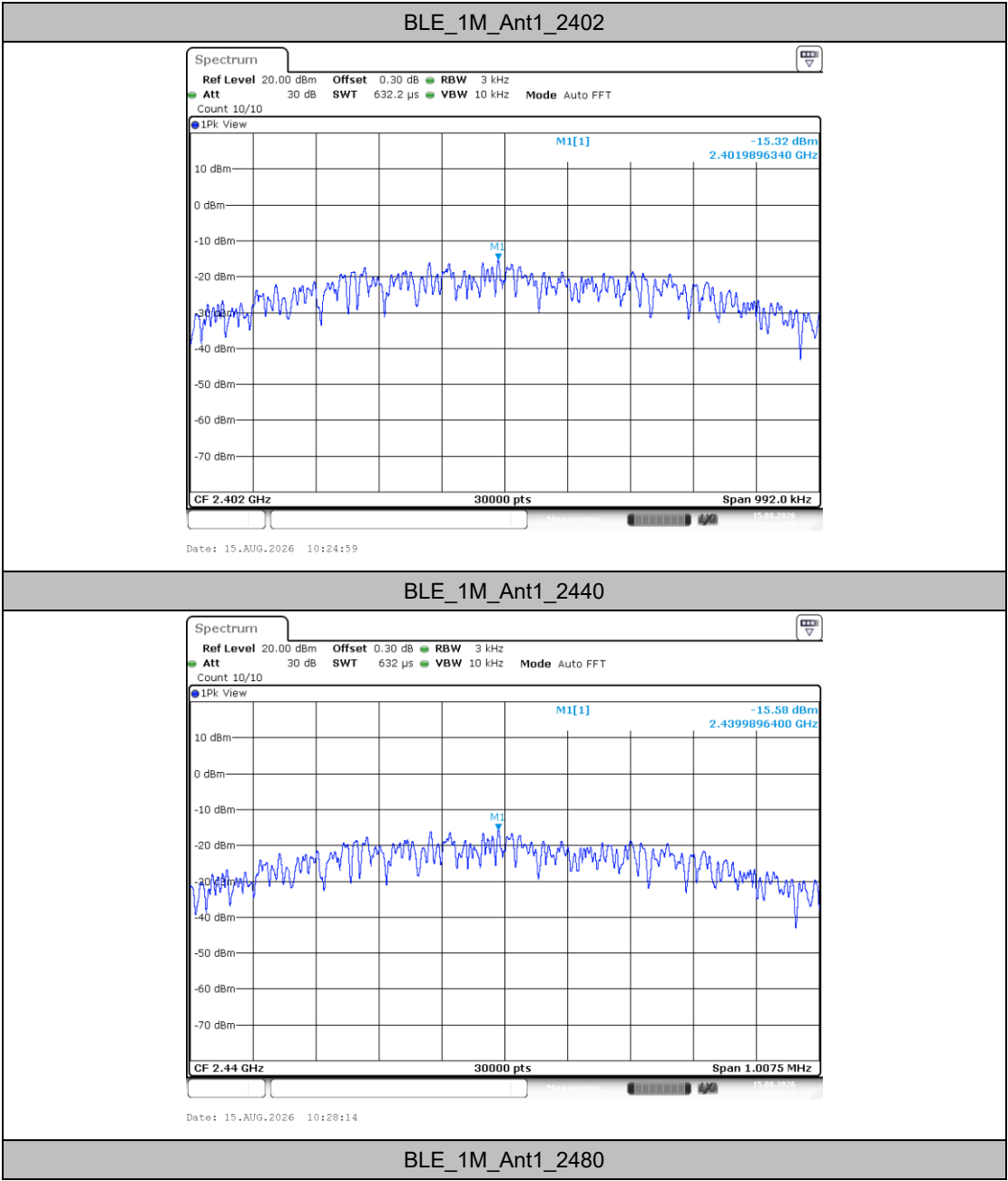
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.01	≤30	PASS
		2440	-0.12	≤30	PASS
		2480	-0.21	≤30	PASS

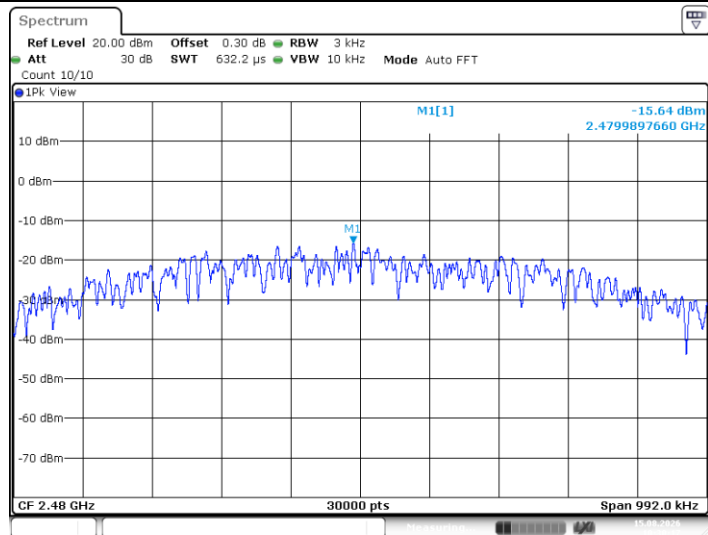
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.32	≤8.00	PASS
		2440	-15.58	≤8.00	PASS
		2480	-15.64	≤8.00	PASS

Test Graphs





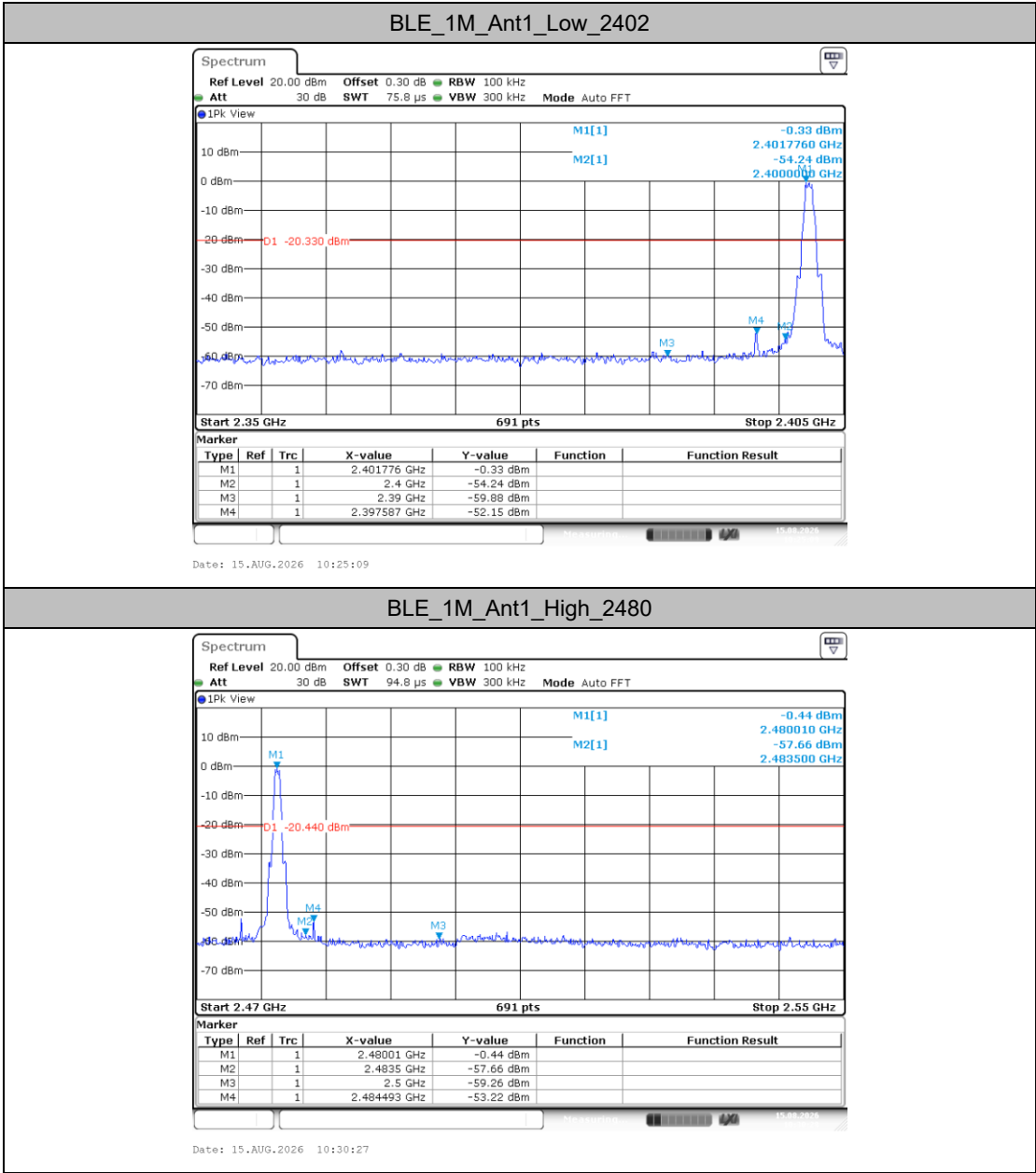
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.33	-52.15	≤-20.33	PASS
		High	2480	-0.44	-53.22	≤-20.44	PASS

Test Graphs

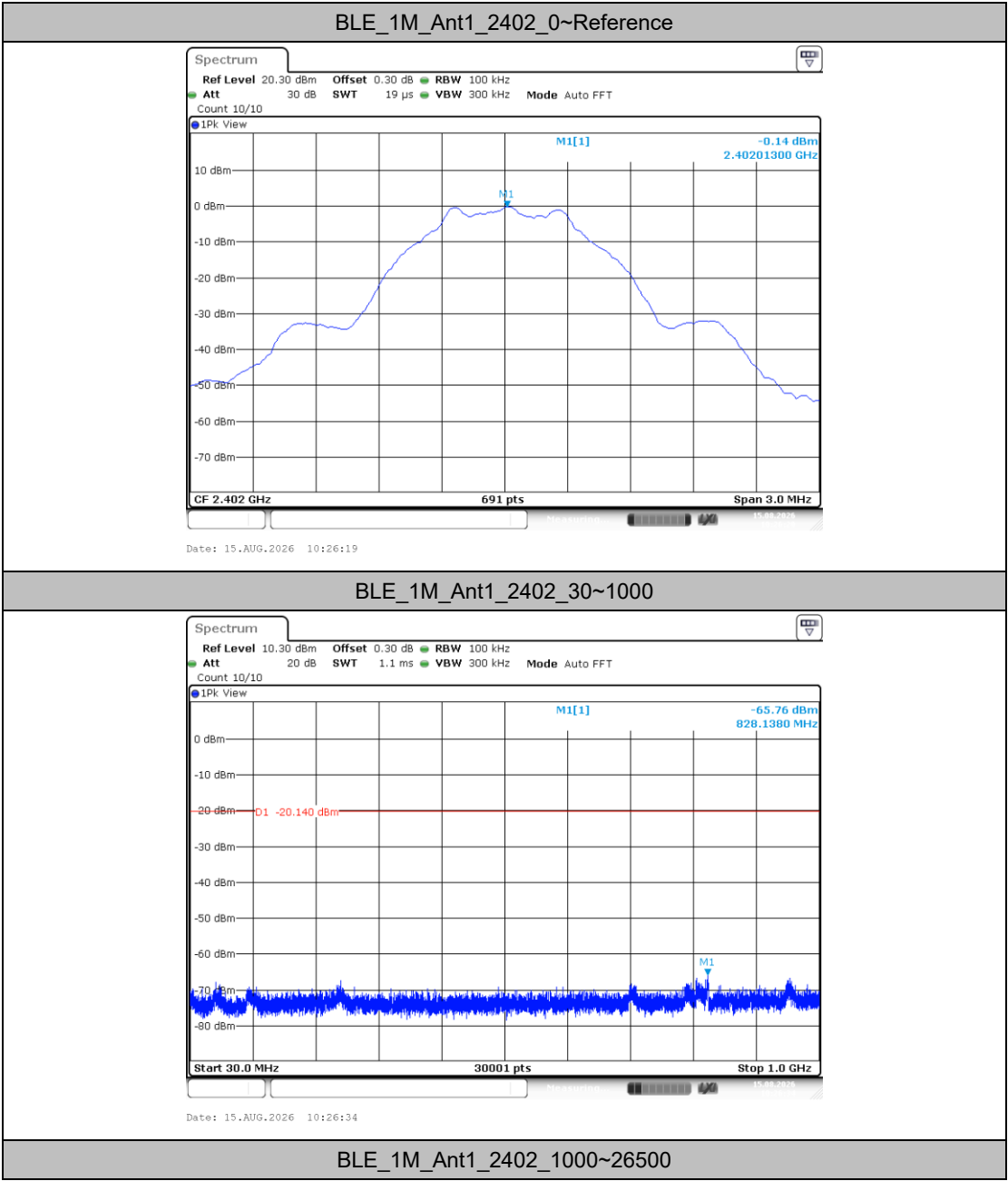


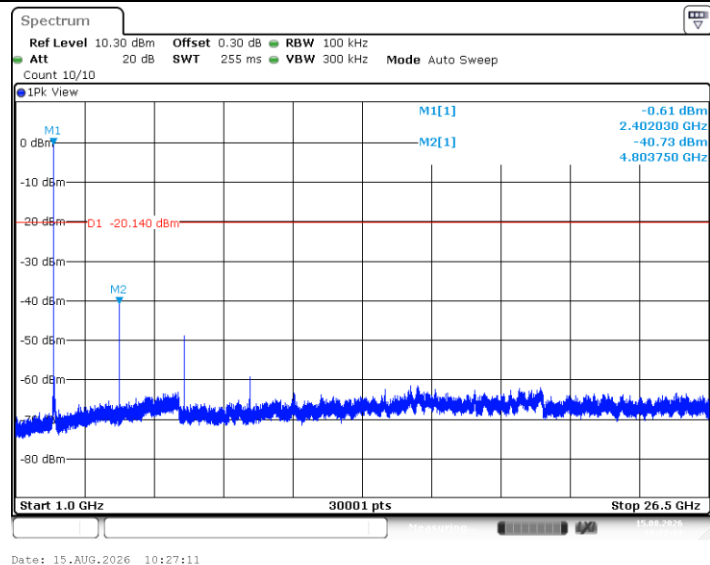
Appendix F: Conducted Spurious Emission

Test Result

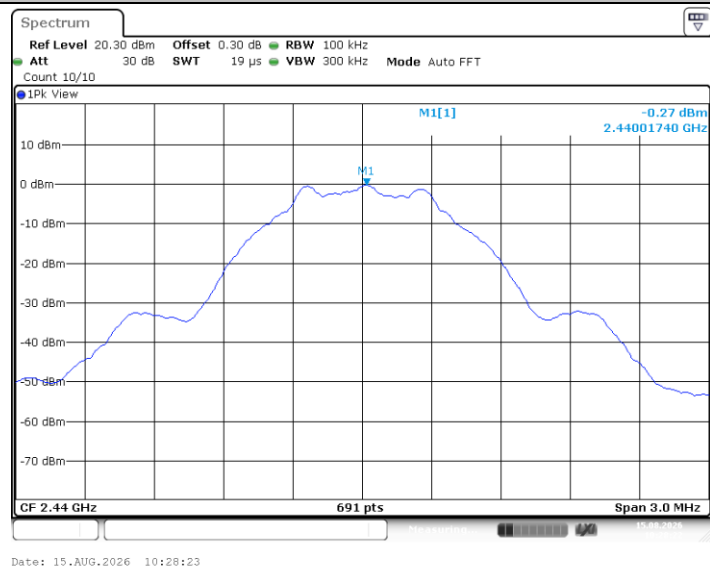
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.14	-0.14	---	PASS
			30~1000	-0.14	-65.76	≤-20.14	PASS
			1000~26500	-0.14	-40.73	≤-20.14	PASS
		2440	Reference	-0.27	-0.27	---	PASS
			30~1000	-0.27	-66.81	≤-20.27	PASS
			1000~26500	-0.27	-42.43	≤-20.27	PASS
		2480	Reference	-0.48	-0.48	---	PASS
			30~1000	-0.48	-66.9	≤-20.48	PASS
			1000~26500	-0.48	-41.65	≤-20.48	PASS

Test Graphs

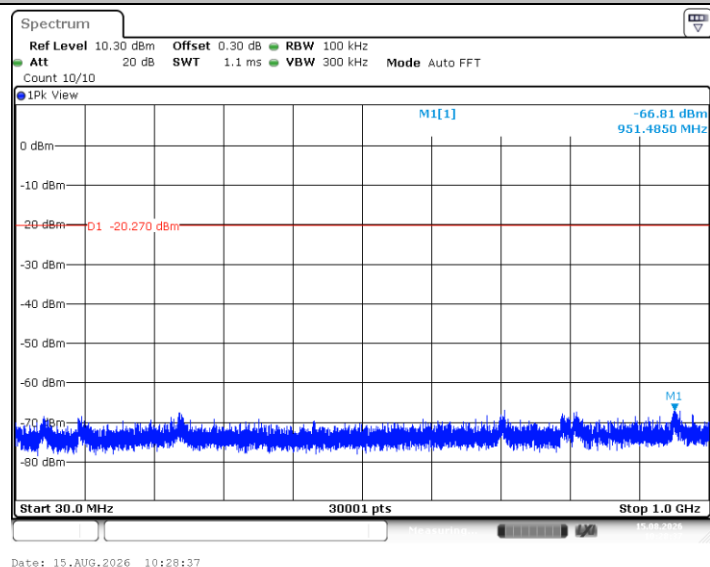




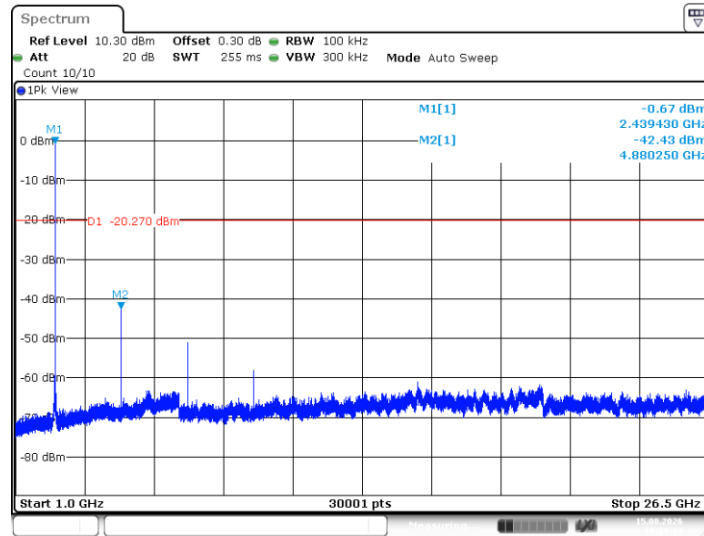
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500



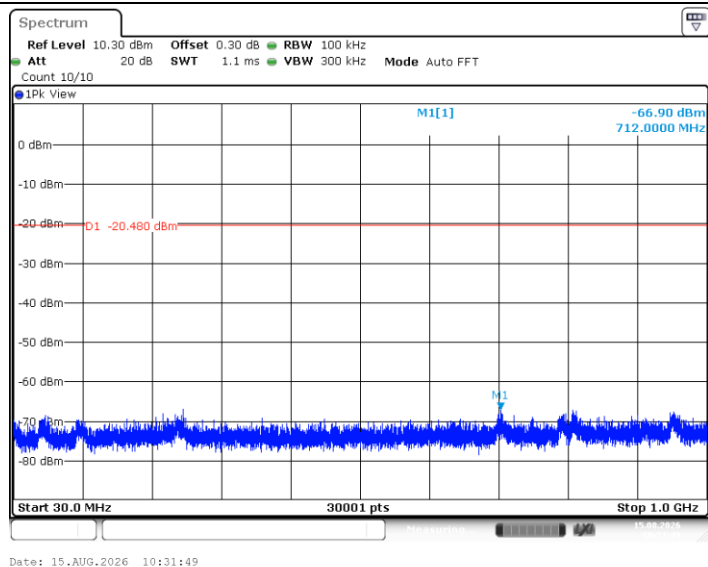
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BLE_1M_Ant1_2480_0~Reference

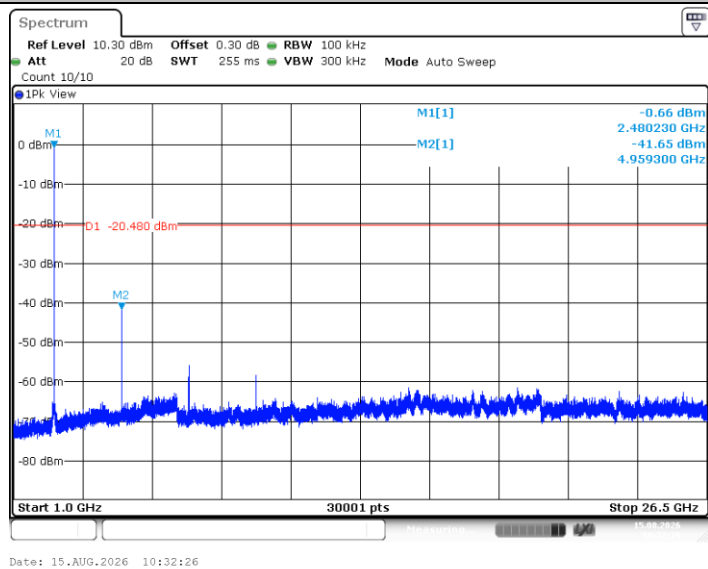


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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

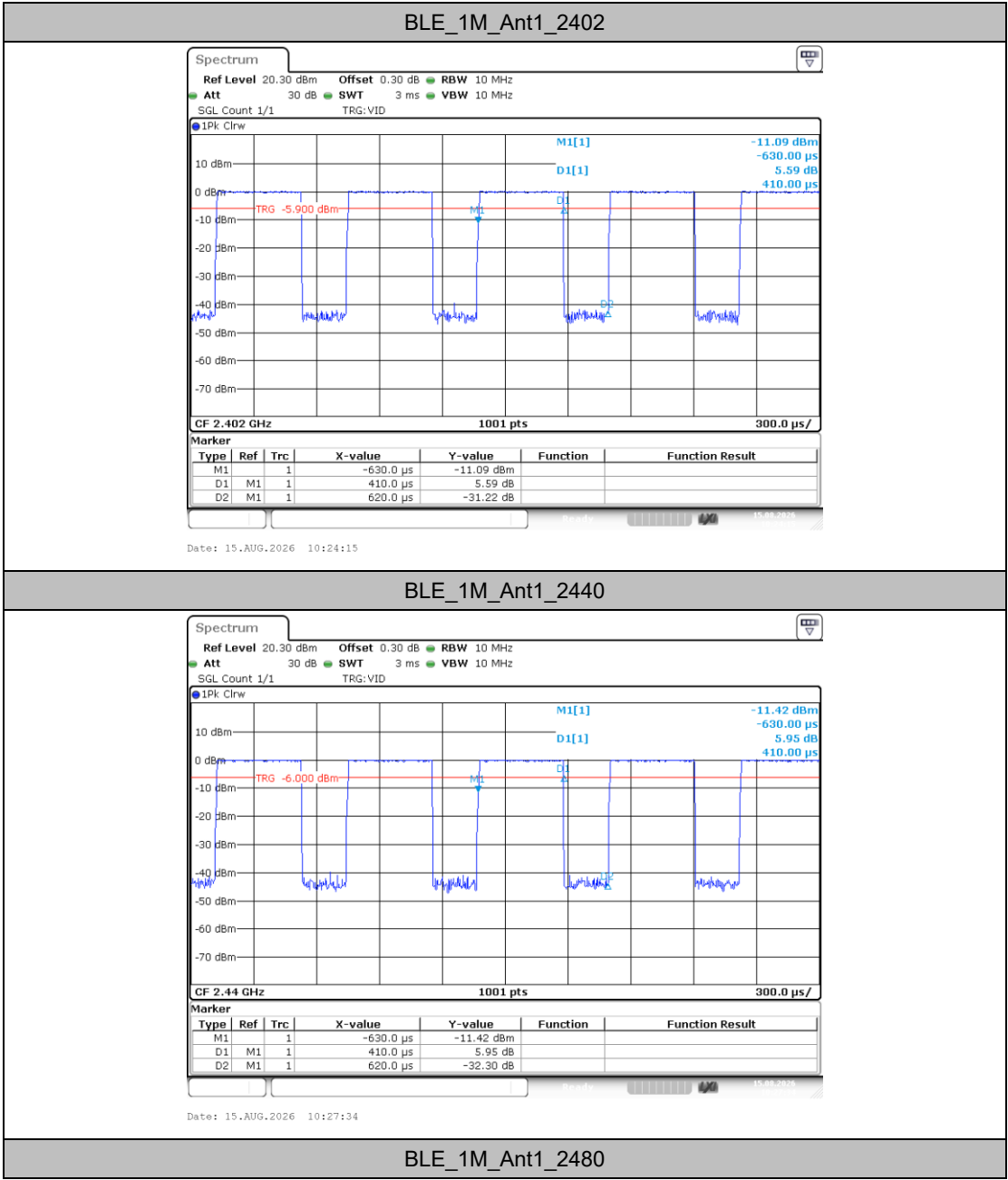


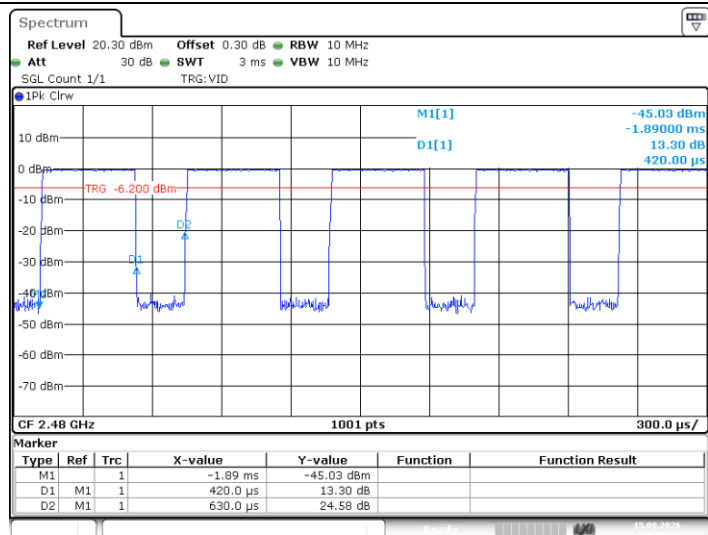
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.62	0.6613	66.13	1.80	---	---
		2440	0.41	0.62	0.6613	66.13	1.80	---	---
		2480	0.42	0.63	0.6667	66.67	1.76	---	---

Test Graphs





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Appendix H: Emissions in Restricted Bands

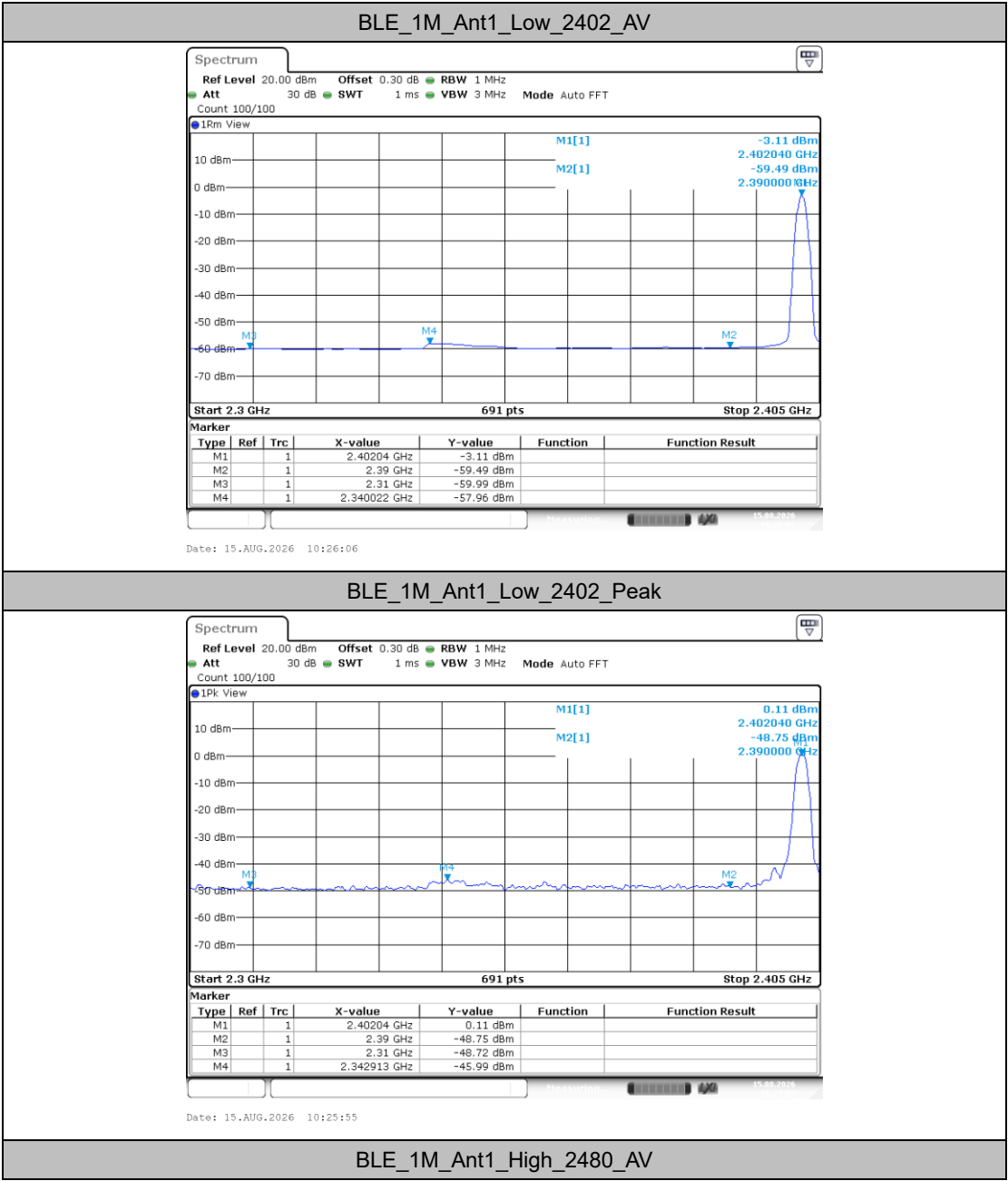
Test Result

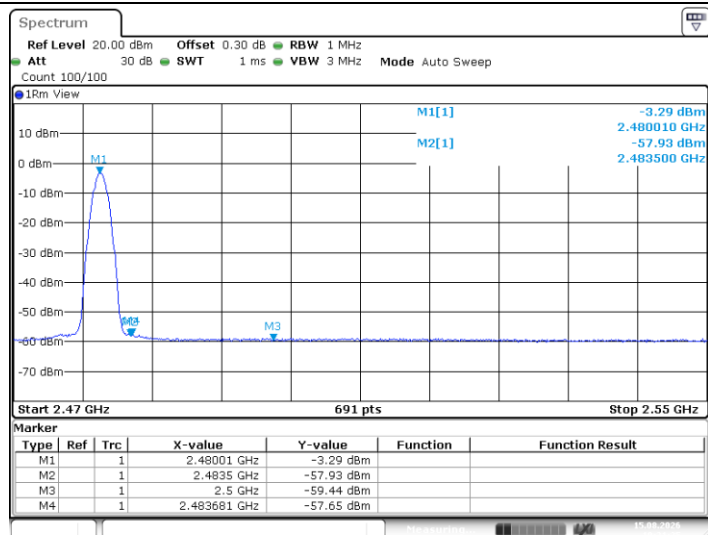
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-59.99	2.00	1.80	39.01	≤54	PASS
				AV	2340.022	-57.96	2.00	1.80	41.04	≤54	PASS
				AV	2390.000	-59.49	2.00	1.80	39.51	≤54	PASS
				Peak	2310.000	-48.72	2.00	0.00	48.48	≤74	PASS
				Peak	2342.913	-45.99	2.00	0.00	51.21	≤74	PASS
				Peak	2390.000	-48.75	2.00	0.00	48.45	≤74	PASS
		High	2480	AV	2483.500	-57.93	2.00	1.76	41.03	≤54	PASS
				AV	2483.681	-57.65	2.00	1.76	41.31	≤54	PASS
				AV	2500.000	-59.44	2.00	1.76	39.52	≤54	PASS
				Peak	2483.500	-44.89	2.00	0.00	52.31	≤74	PASS
				Peak	2484.957	-42.73	2.00	0.00	54.47	≤74	PASS
				Peak	2500.000	-47.64	2.00	0.00	49.56	≤74	PASS

Note:

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.

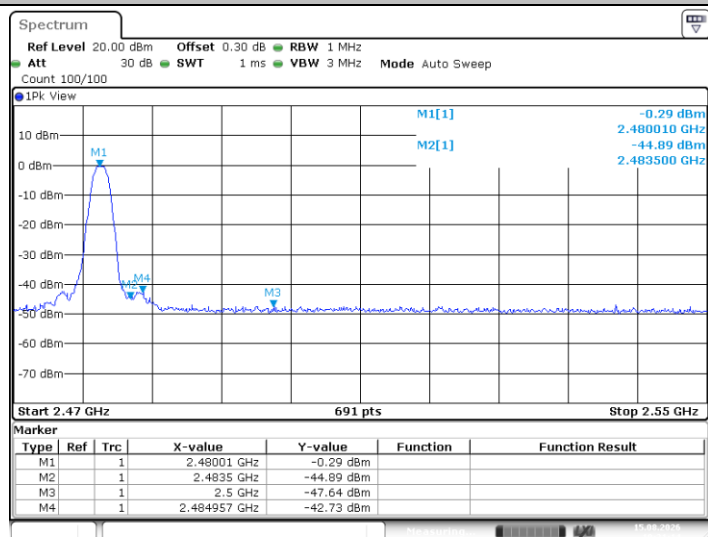
Test Graphs





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BLE_1M_Ant1_High_2480_Peak



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