

FCC Appendix RF Test Data for BLE

FCC ID : 2BWUS-F1-ALARM

Company : Foshan Xinchuangdi Amusement Equipment Co., Ltd.

EUT : Pool Alarm Safety

Model Number : F1-Alarm

Report No. : CTA26060202001

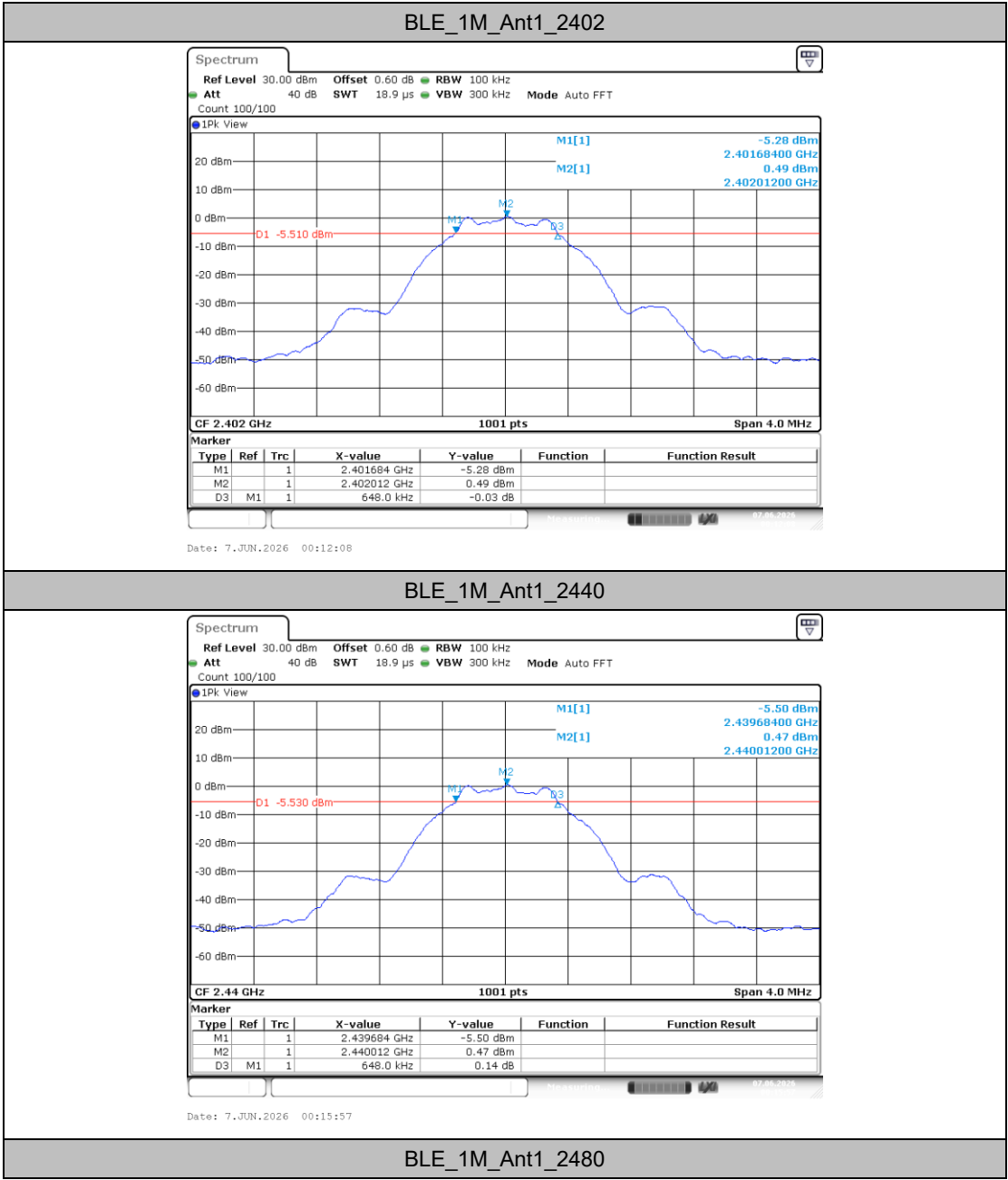
Reviewed By : Eric Wang

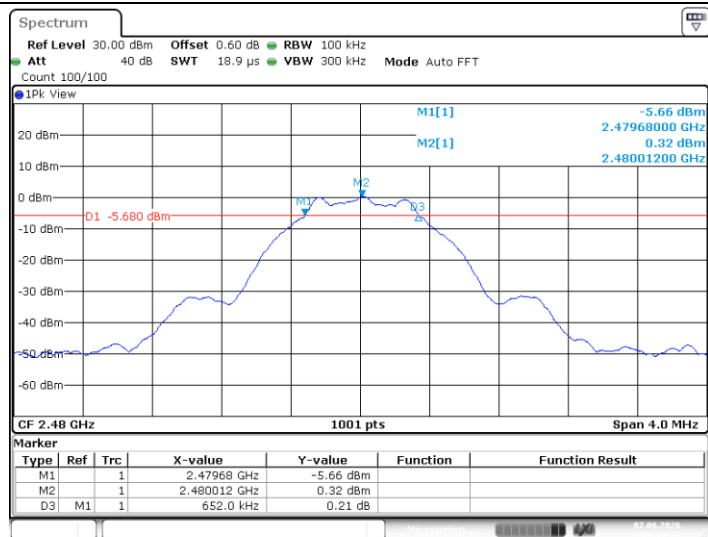
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.65	2401.68	2402.33	0.5	PASS
		2440	0.65	2439.68	2440.33	0.5	PASS
		2480	0.65	2479.68	2480.33	0.5	PASS

Test Graphs





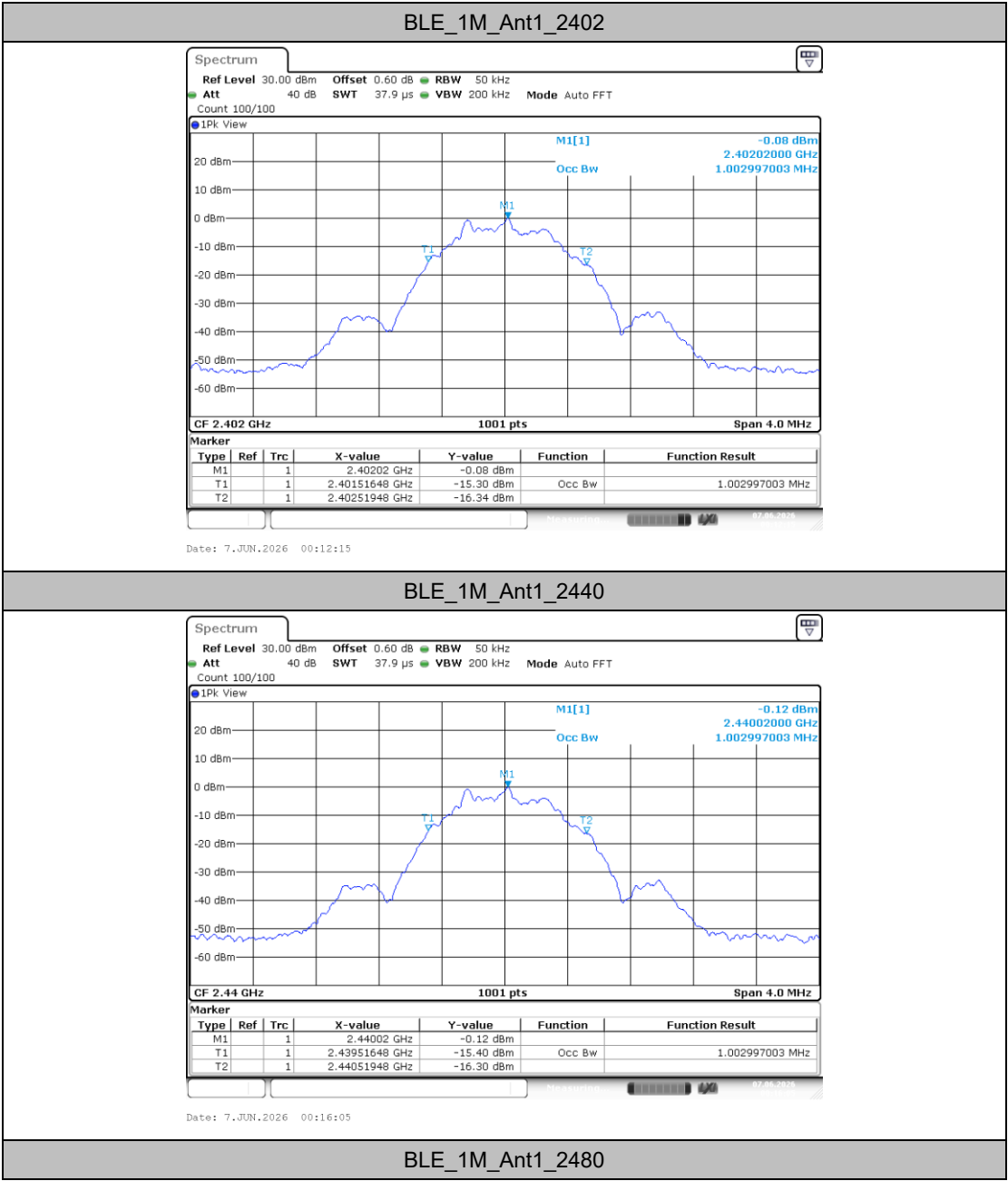
Date: 7.JUN.2026 00:18:27

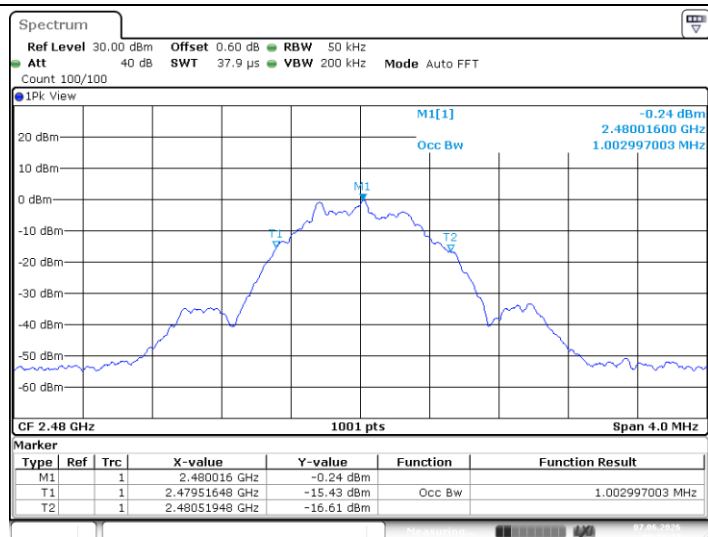
Appendix B: Occupied Channel Bandwidth

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

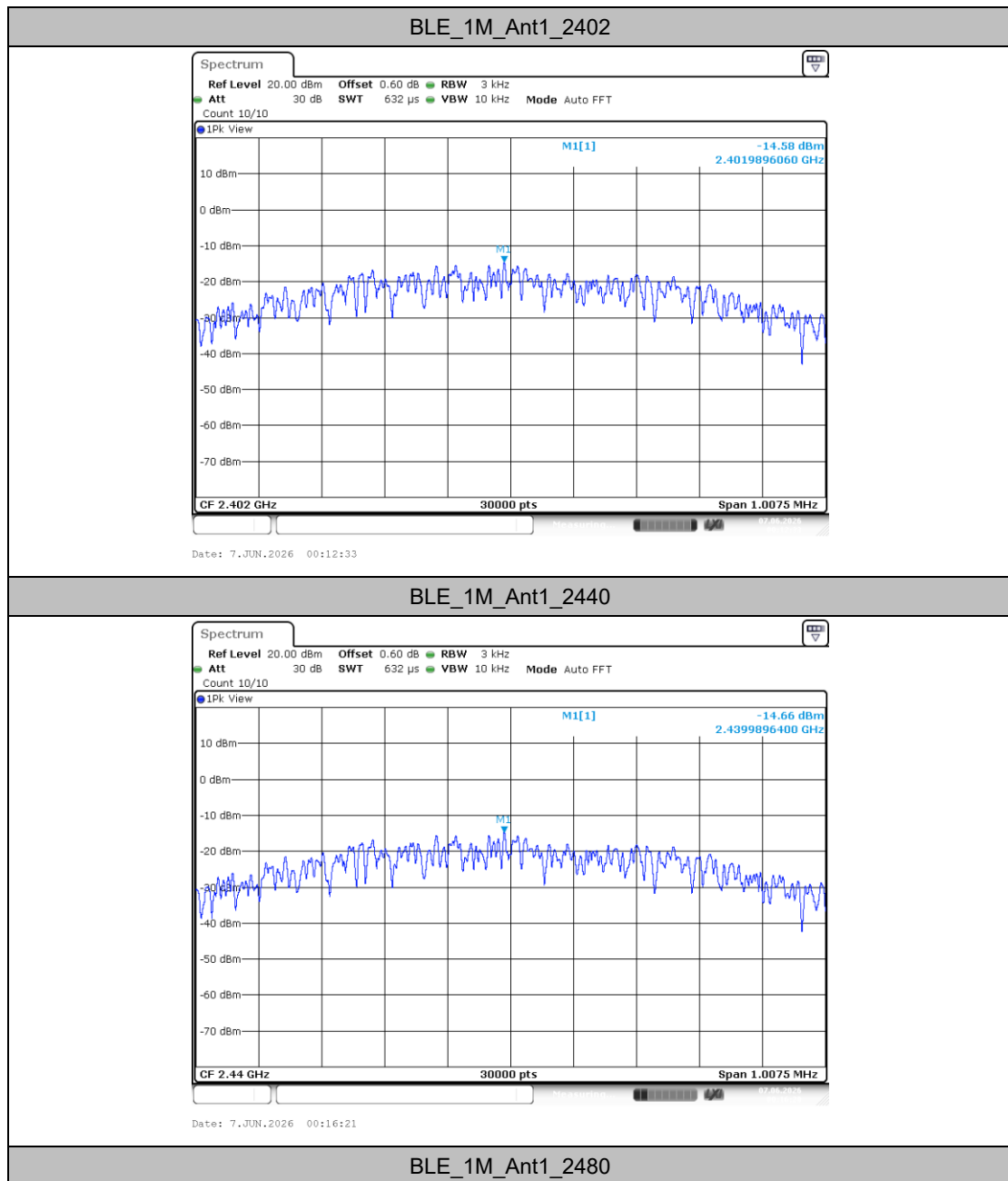
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.71	≤30	PASS
		2440	0.58	≤30	PASS
		2480	0.49	≤30	PASS

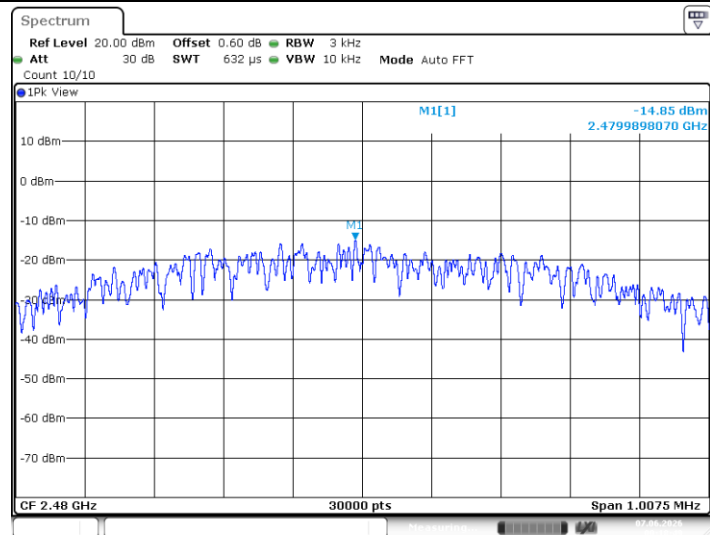
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.58	≤8.00	PASS
		2440	-14.66	≤8.00	PASS
		2480	-14.85	≤8.00	PASS

Test Graphs



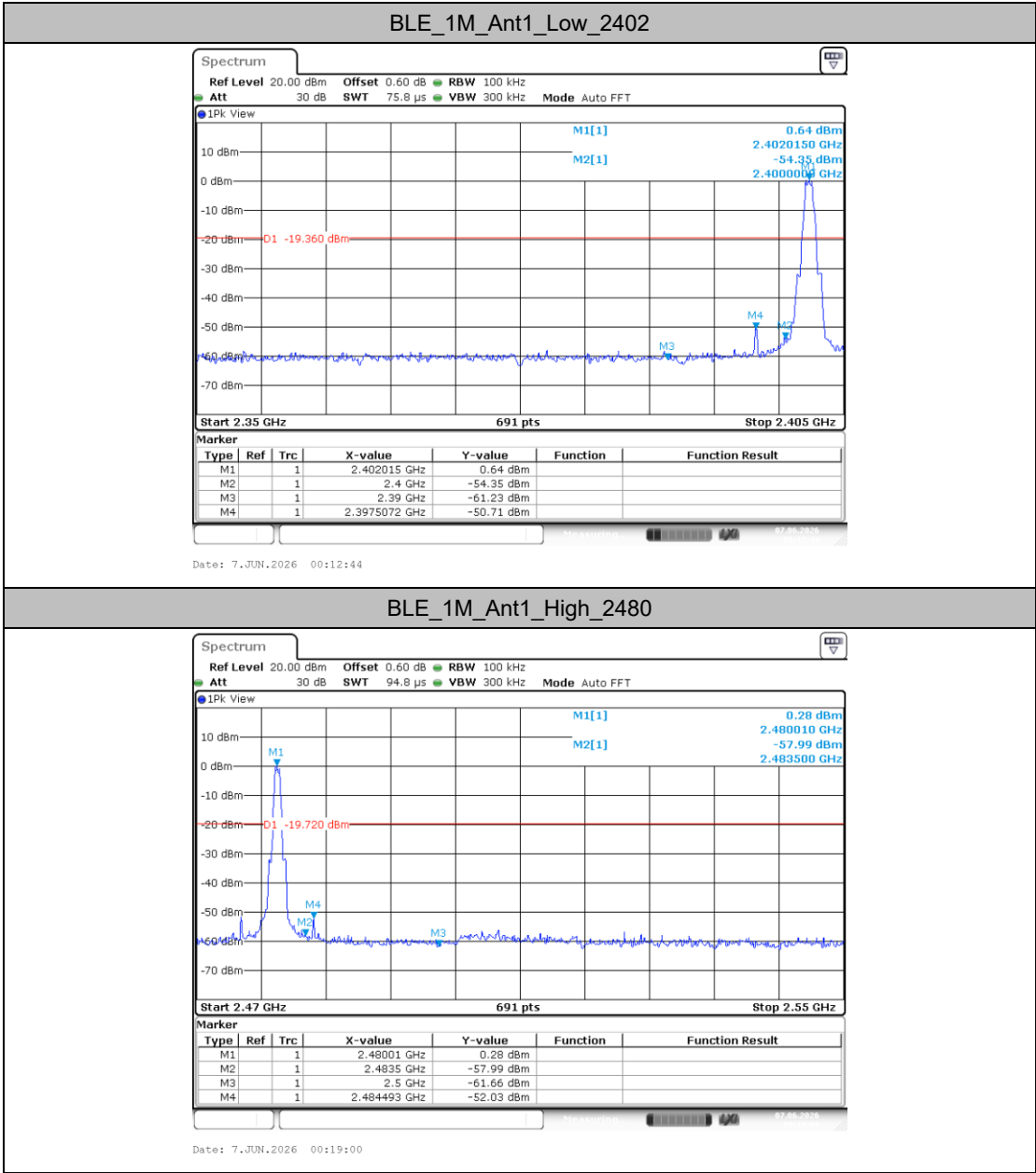


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.64	-50.71	≤-19.36	PASS
		High	2480	0.28	-52.03	≤-19.72	PASS

Test Graphs

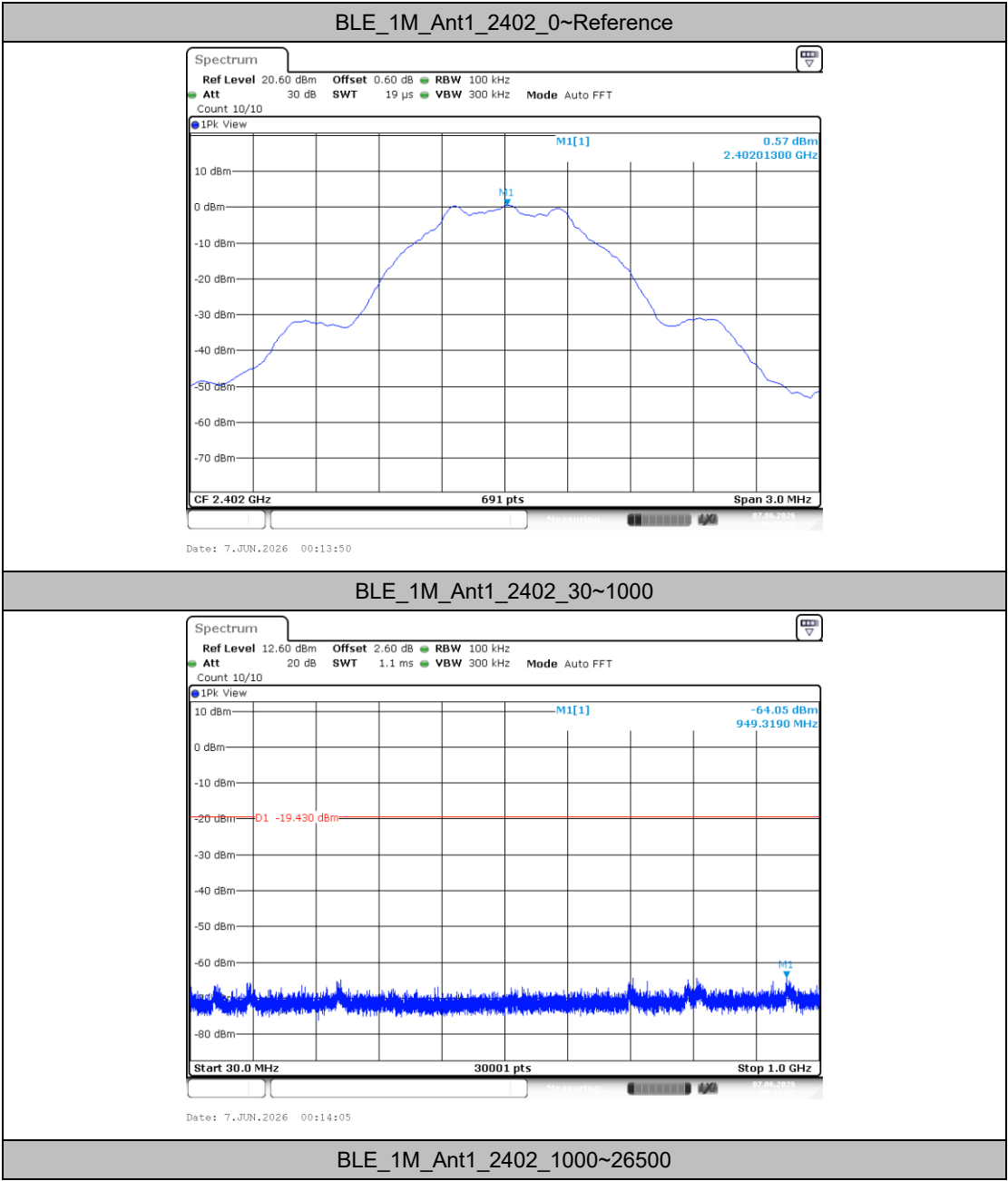


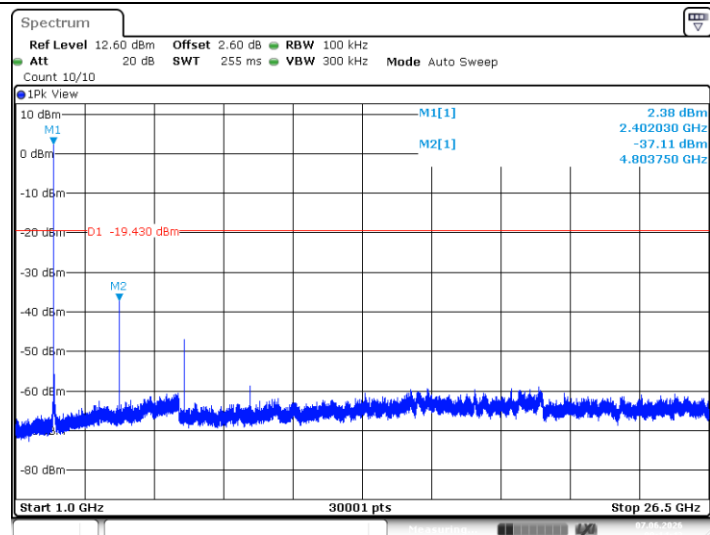
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.57	0.57	---	PASS
			30~1000	0.57	-64.05	≤-19.43	PASS
			1000~26500	0.57	-37.11	≤-19.43	PASS
		2440	Reference	0.43	0.43	---	PASS
			30~1000	0.43	-64.58	≤-19.57	PASS
			1000~26500	0.43	-38.06	≤-19.57	PASS
		2480	Reference	0.20	0.20	---	PASS
			30~1000	0.20	-64.65	≤-19.8	PASS
			1000~26500	0.20	-38.69	≤-19.8	PASS

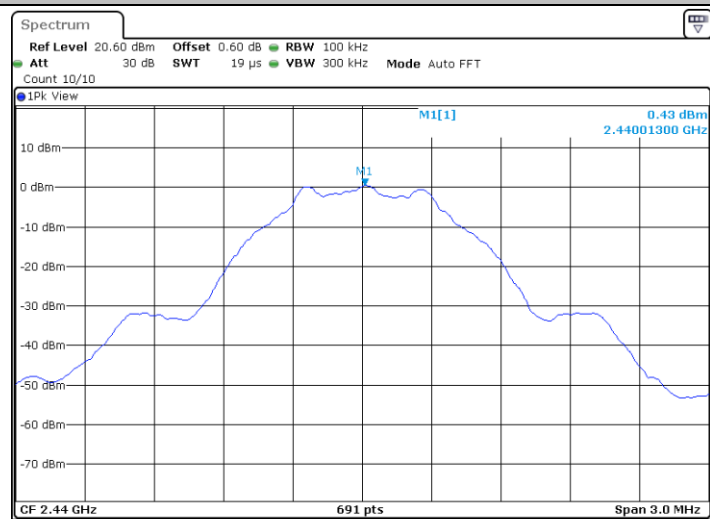
Test Graphs





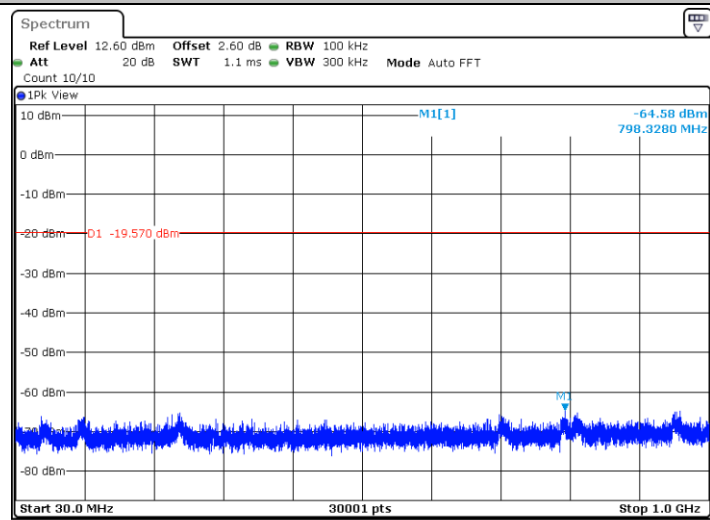
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BLE_1M_Ant1_2440_0~Reference



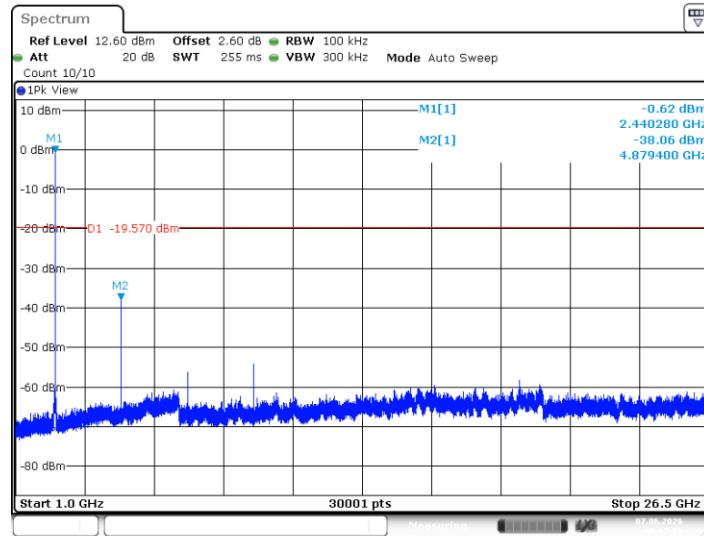
Date: 7.JUN.2026 00:16:29

BLE_1M_Ant1_2440_30~1000



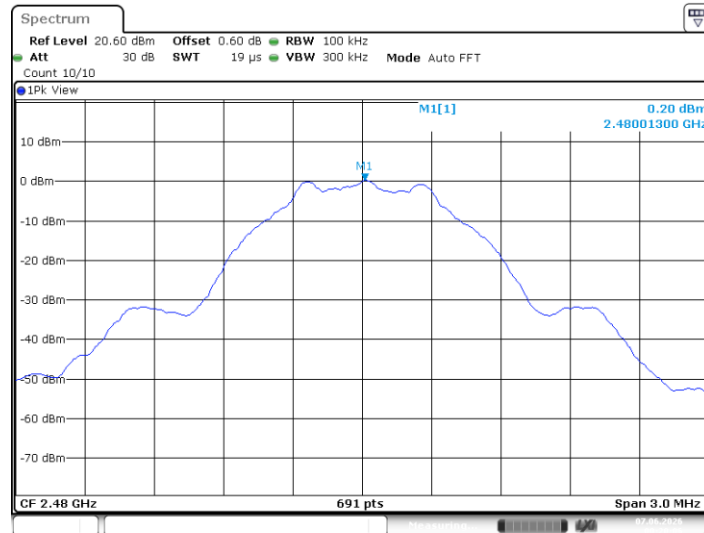
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BLE_1M_Ant1_2440_1000~26500



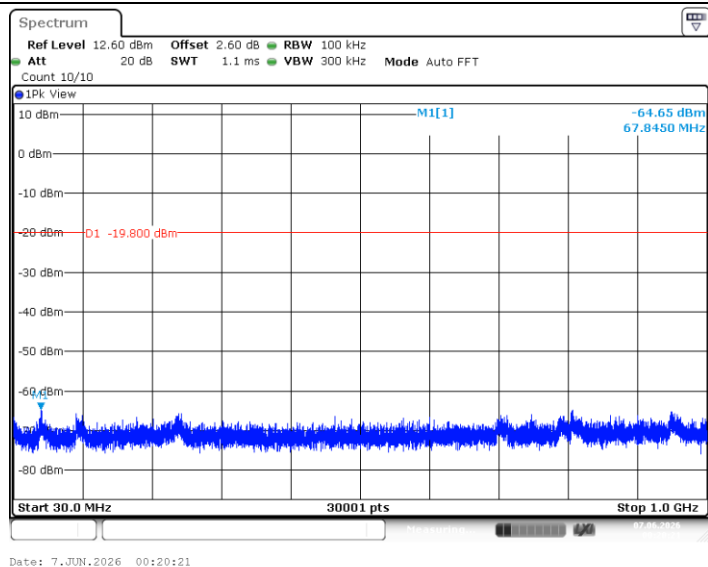
Date: 7.JUN.2026 00:17:56

BLE_1M_Ant1_2480_0~Reference

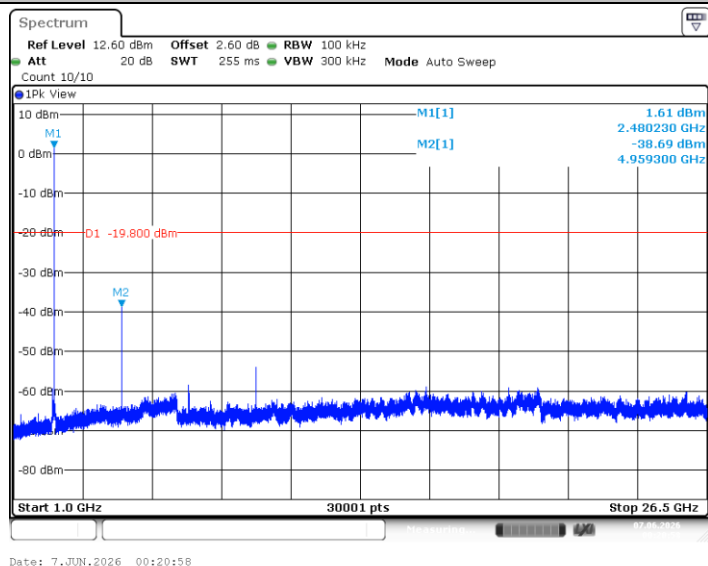


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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

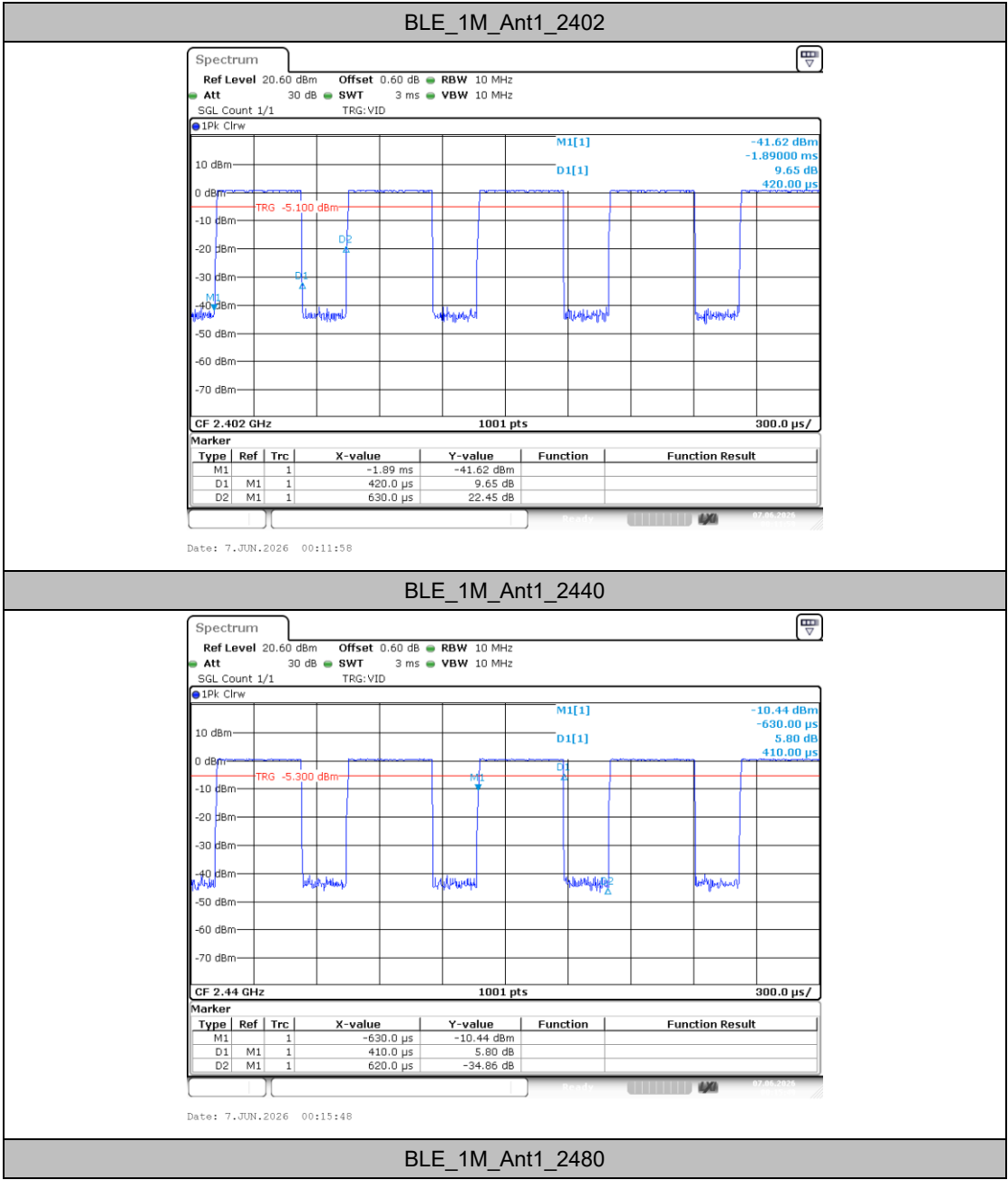


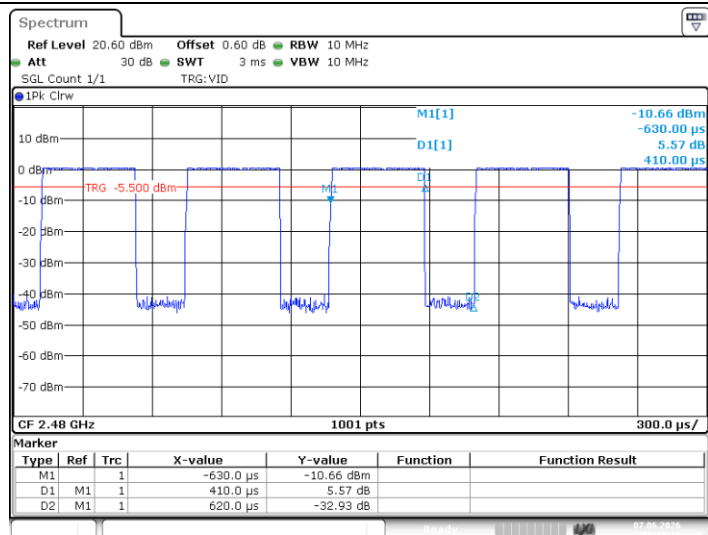
Appendix G: Duty Cycle

Test Result

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

Test Graphs





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Appendix H: Emissions in Restricted Bands

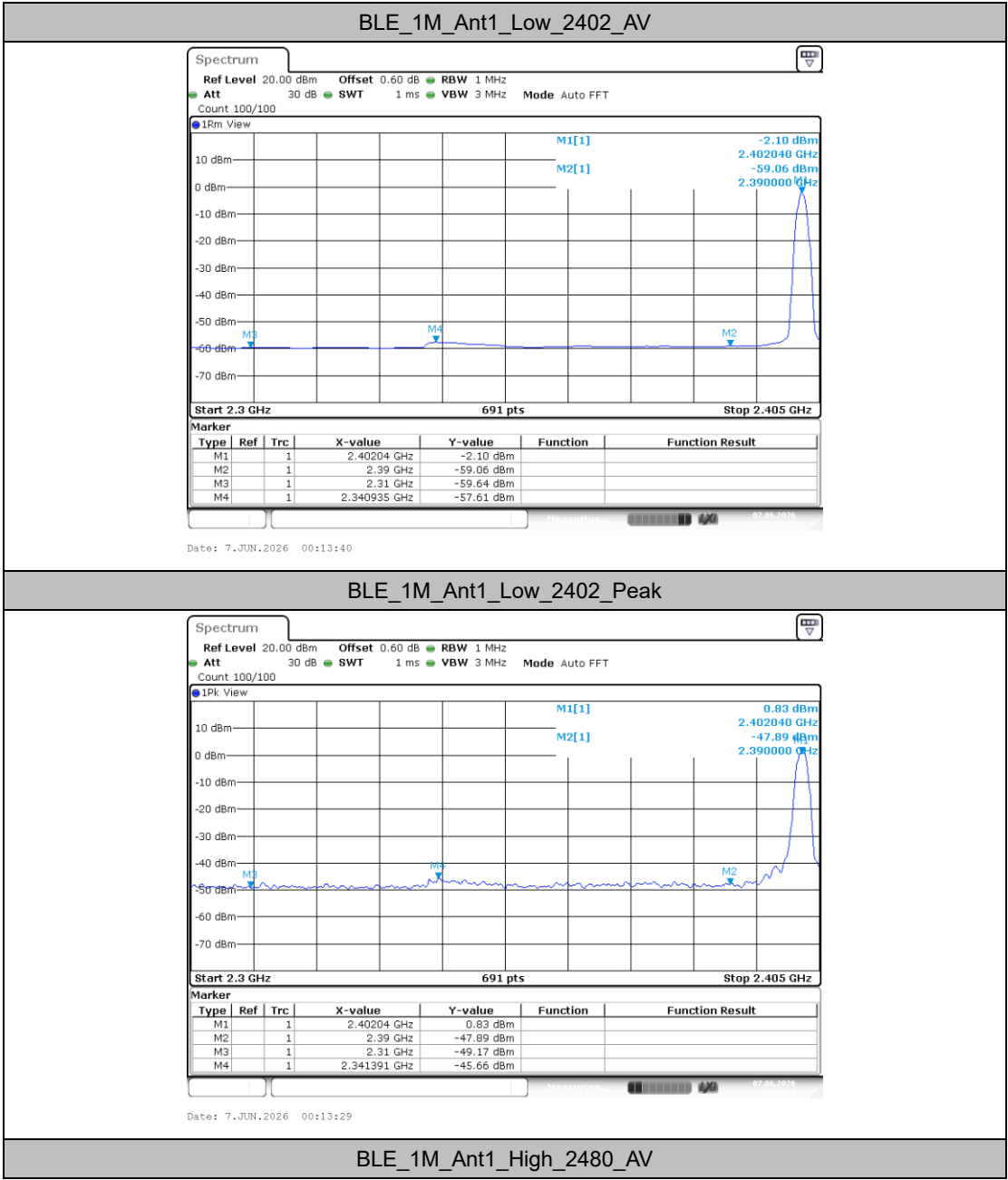
Test Result

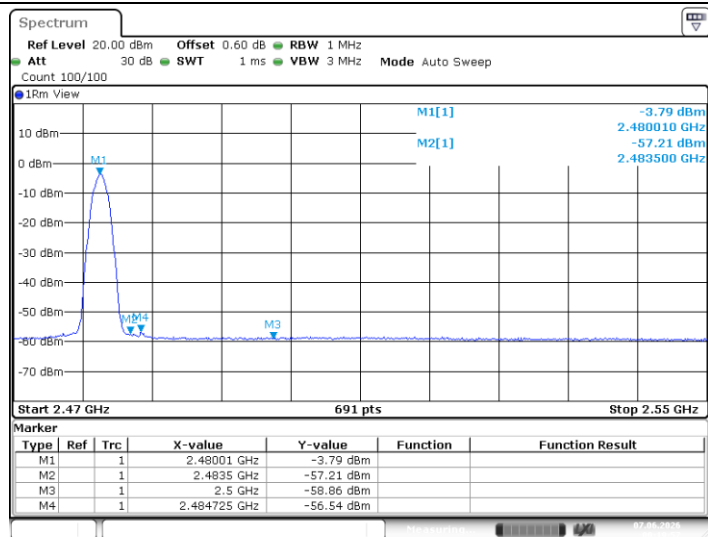
TestMode	Antenna	Channel	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-59.64	2.43	1.76	39.75	≤54	PASS
				AV	2340.935	-57.61	2.43	1.76	41.78	≤54	PASS
				AV	2390.000	-59.06	2.43	1.76	40.33	≤54	PASS
				Peak	2310.000	-49.17	2.43	0.00	48.46	≤74	PASS
				Peak	2341.391	-45.66	2.43	0.00	51.97	≤74	PASS
				Peak	2390.000	-47.89	2.43	0.00	49.74	≤74	PASS
		High	2480	AV	2483.500	-57.21	2.43	1.80	42.22	≤54	PASS
				AV	2484.725	-56.54	2.43	1.80	42.89	≤54	PASS
				AV	2500.000	-58.86	2.43	1.80	40.57	≤54	PASS
				Peak	2483.500	-45.43	2.43	0.00	52.2	≤74	PASS
				Peak	2484.493	-41.1	2.43	0.00	56.53	≤74	PASS
				Peak	2500.000	-48.1	2.43	0.00	49.53	≤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.

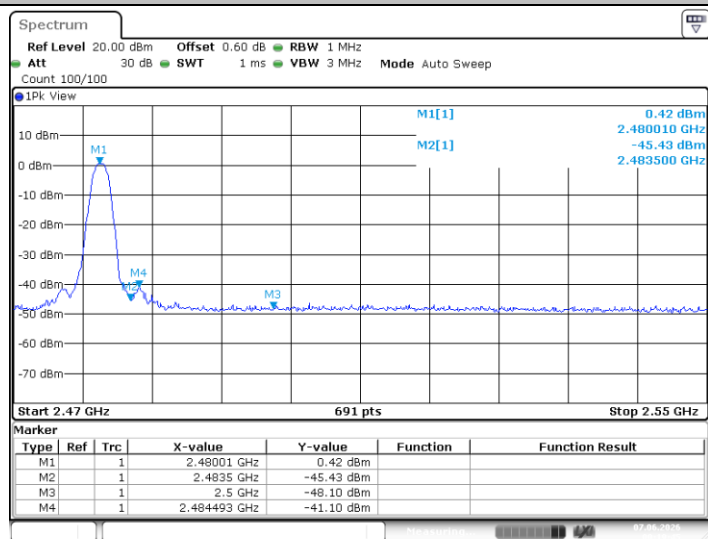
Test Graphs





Date: 7.JUN.2026 00:19:57

BLE_1M_Ant1_High_2480_Peak



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