

FCC Appendix RF Test Data for BLE

FCC ID : 2AZW2-G15MPRO

Company : Beijing Supvan Information Technology Co., Ltd.

EUT : Label Maker

Model Number : G15M Pro

Report No. : CTA26041403101

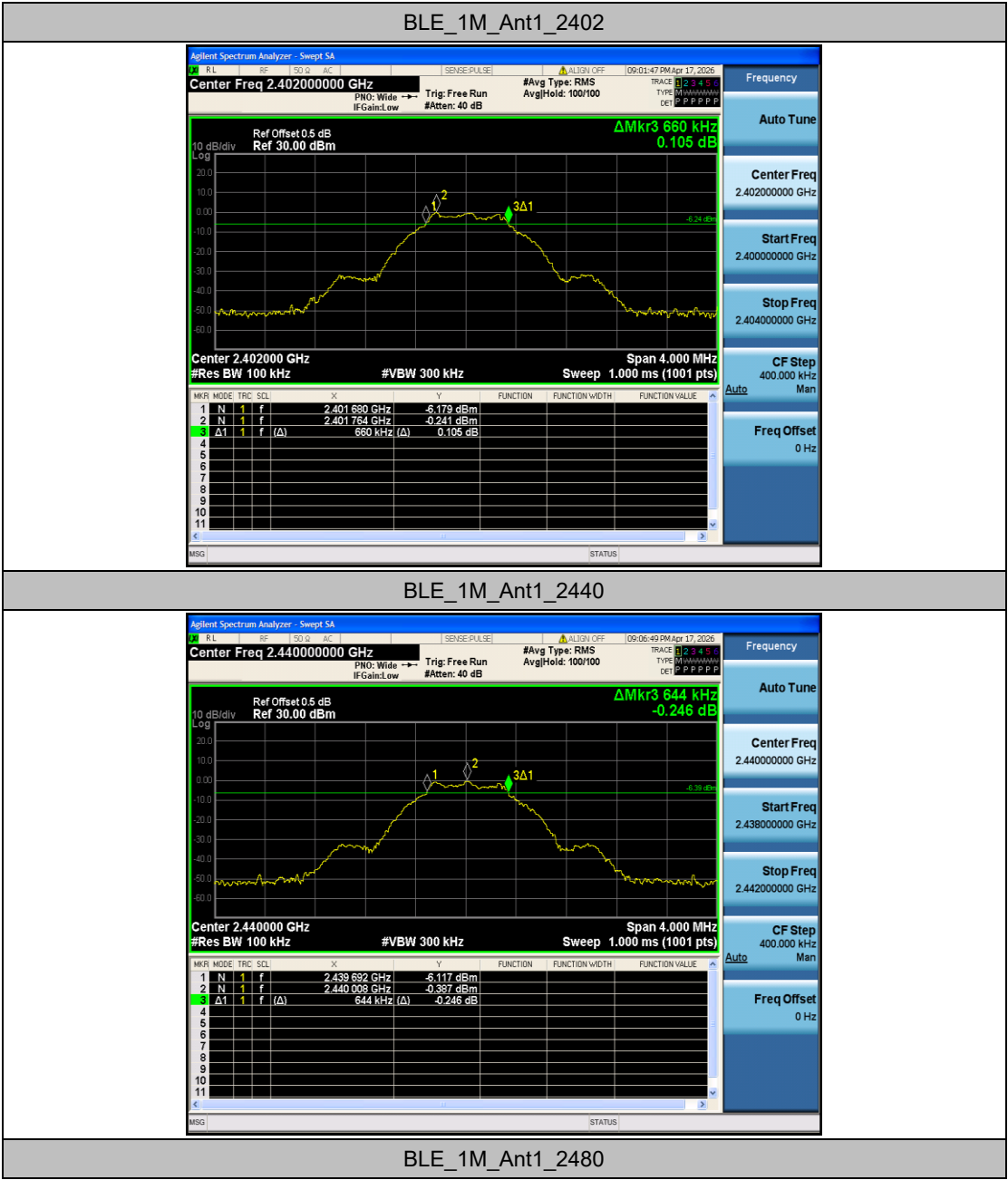
Reviewed By : Eric Wang

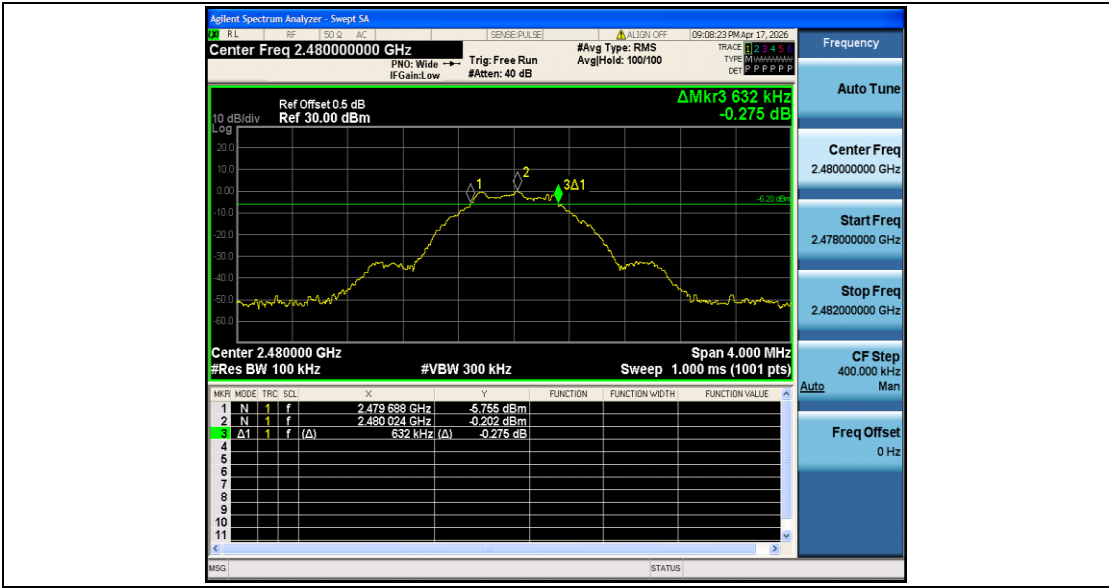
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.680	2402.340	0.5	PASS
		2440	0.644	2439.692	2440.336	0.5	PASS
		2480	0.632	2479.688	2480.320	0.5	PASS

Test Graphs





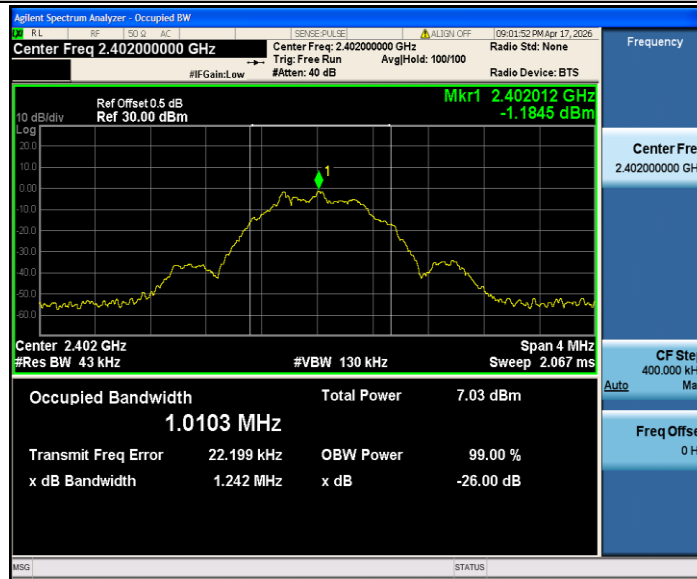
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0103	2401.5171	2402.5274	---	---
		2440	1.0079	2439.5171	2440.5250	---	---
		2480	1.0054	2479.5182	2480.5236	---	---

Test Graphs

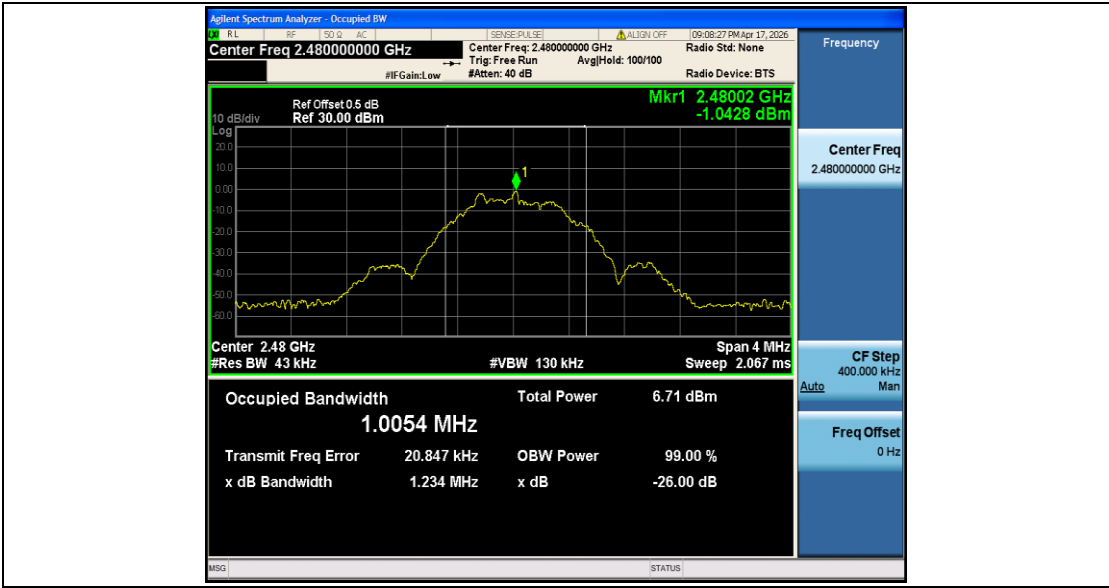
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



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	0.33	≤30	PASS
		2440	0.00	≤30	PASS
		2480	0.02	≤30	PASS

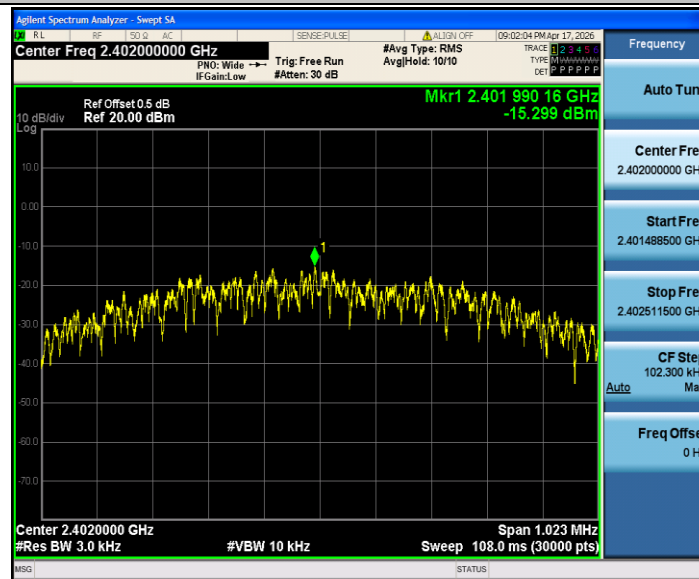
Appendix D: Maximum power spectral density

Test Result

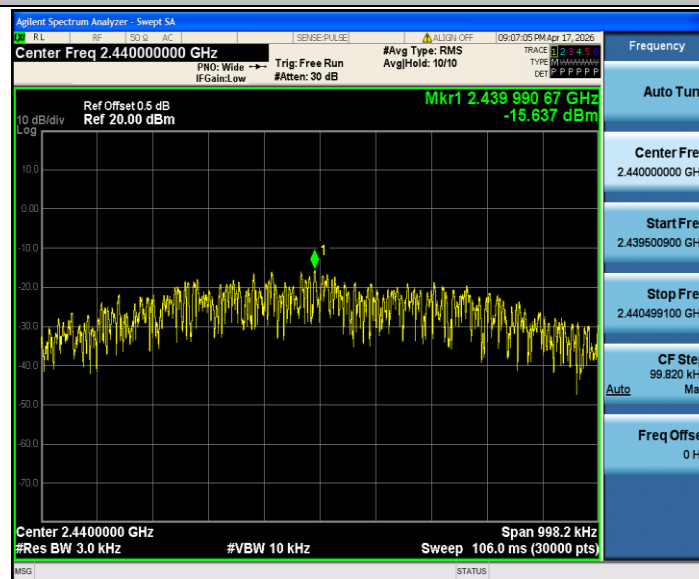
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.30	≤8.00	PASS
		2440	-15.64	≤8.00	PASS
		2480	-15.57	≤8.00	PASS

Test Graphs

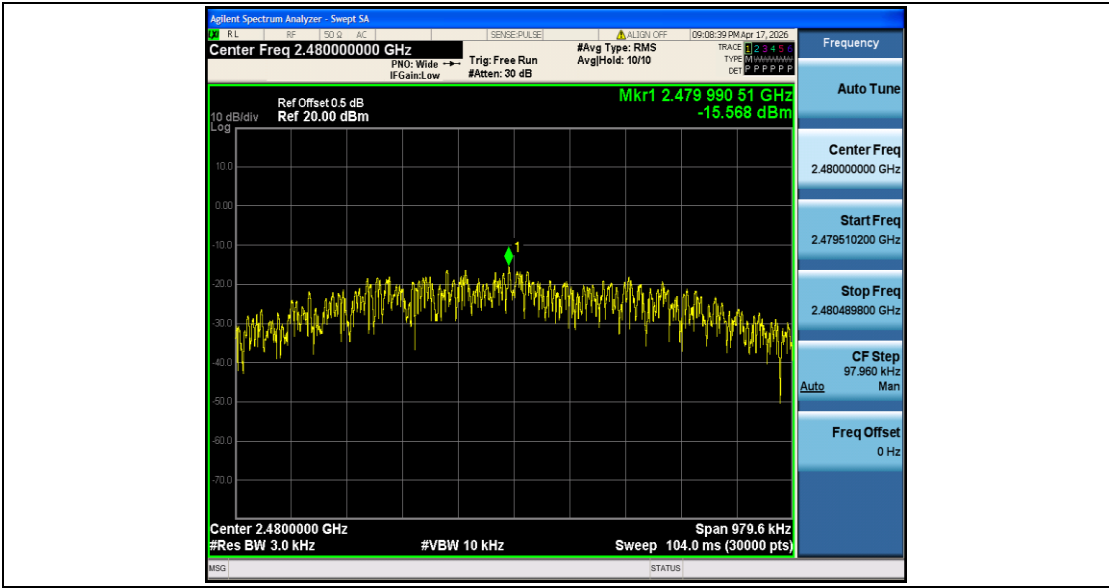
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

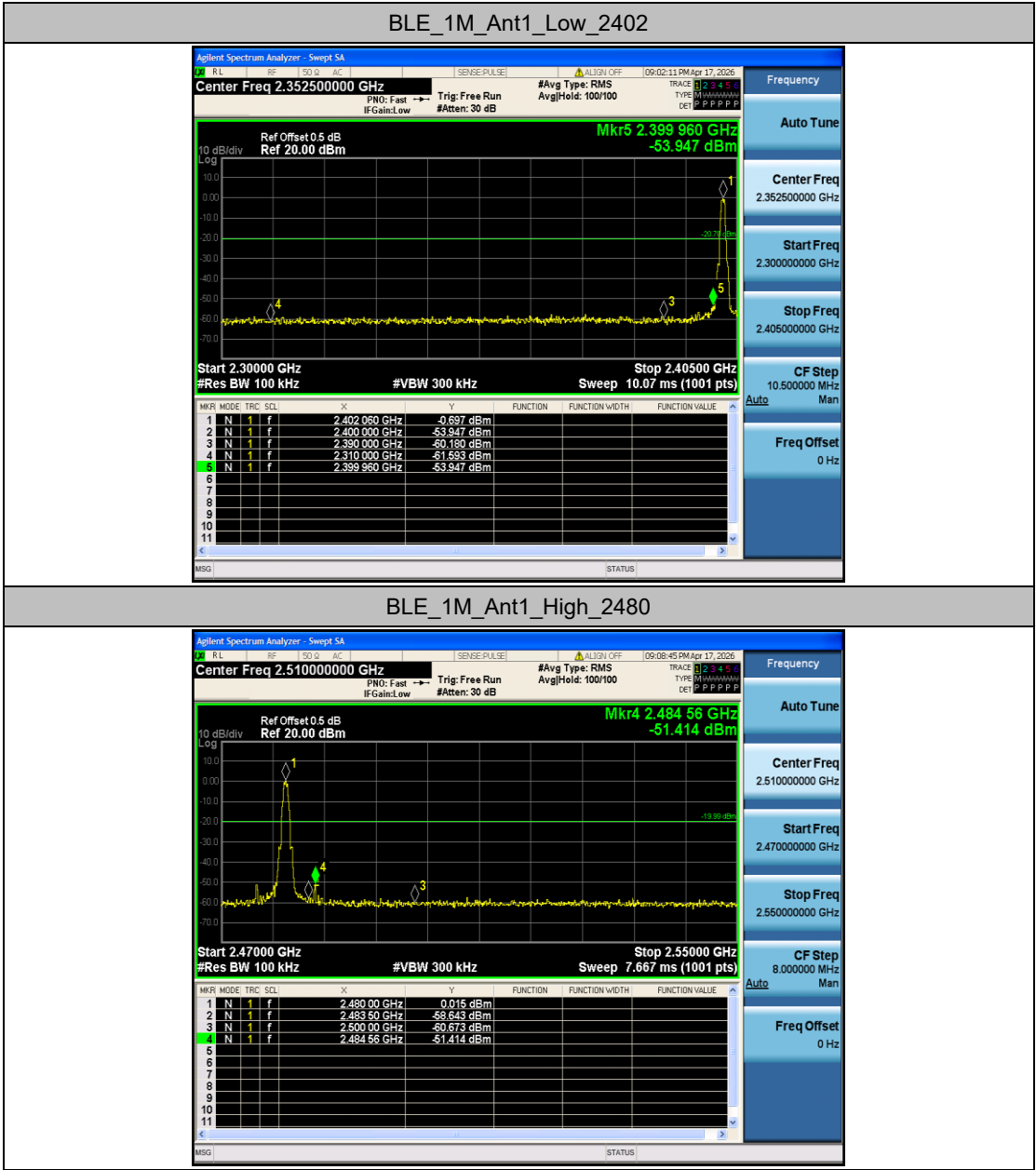


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-0.70	-53.95	≤-20.7	PASS
		High	2480	0.02	-51.41	≤-19.99	PASS

Test Graphs

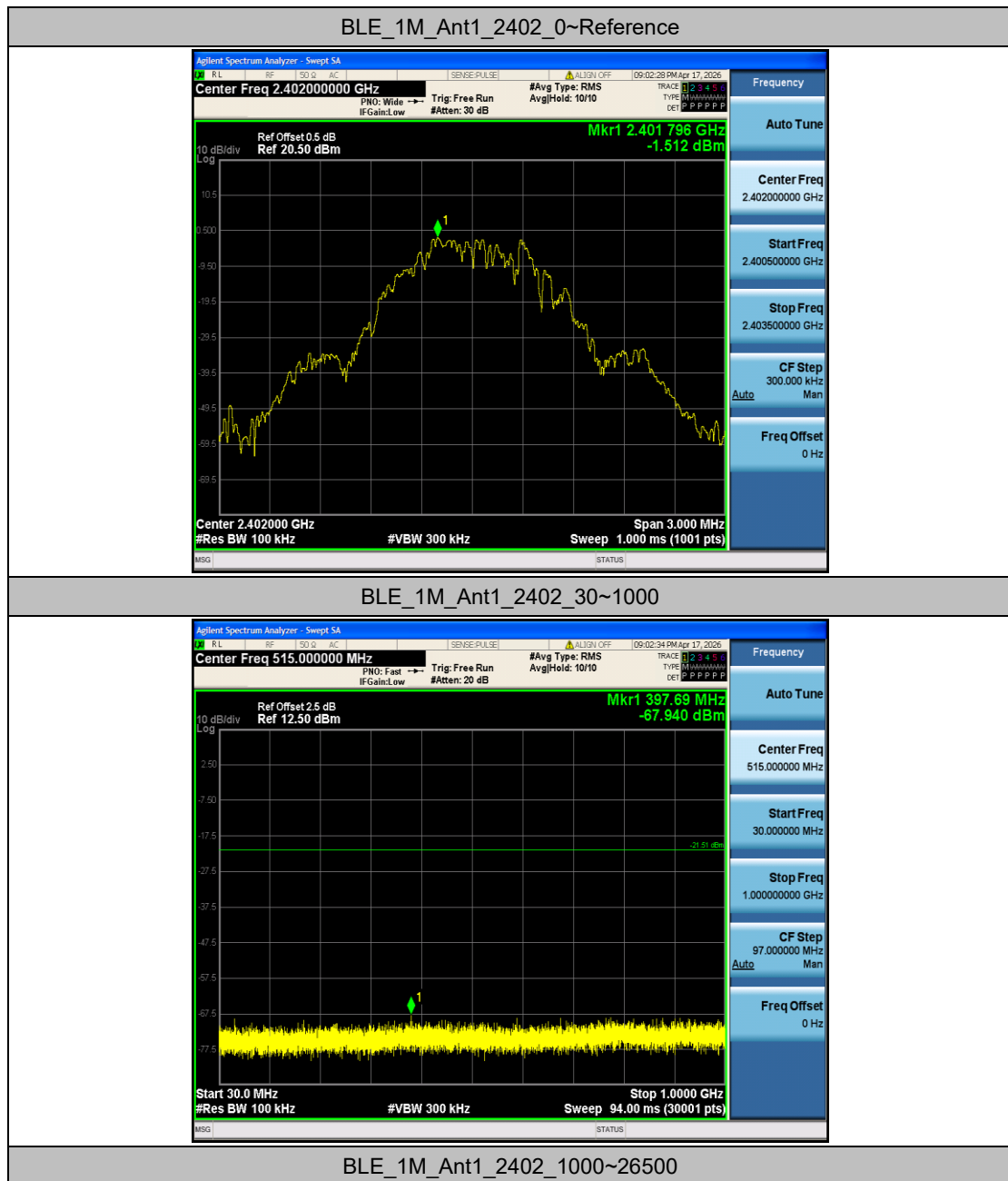


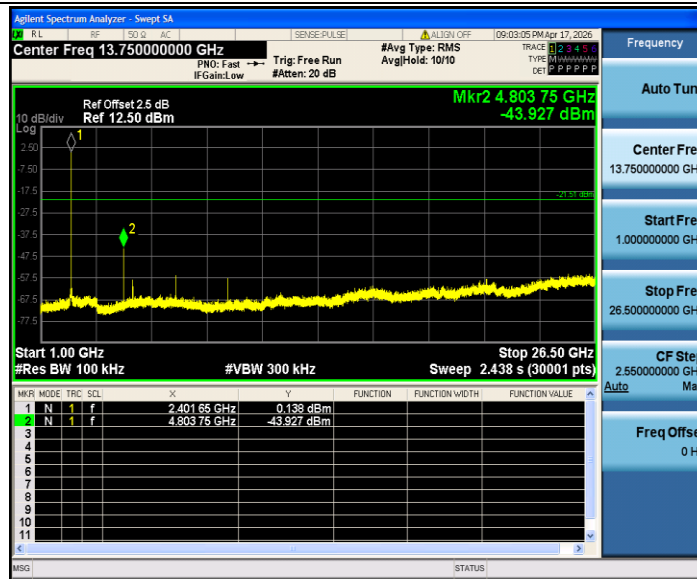
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.51	-1.51	---	PASS
			30~1000	-1.51	-67.94	≤-21.51	PASS
			1000~26500	-1.51	-43.93	≤-21.51	PASS
		2440	Reference	-1.57	-1.57	---	PASS
			30~1000	-1.57	-67.75	≤-21.57	PASS
			1000~26500	-1.57	-43.16	≤-21.57	PASS
		2480	Reference	-0.67	-0.67	---	PASS
			30~1000	-0.67	-68.01	≤-20.67	PASS
			1000~26500	-0.67	-44.88	≤-20.67	PASS

Test Graphs

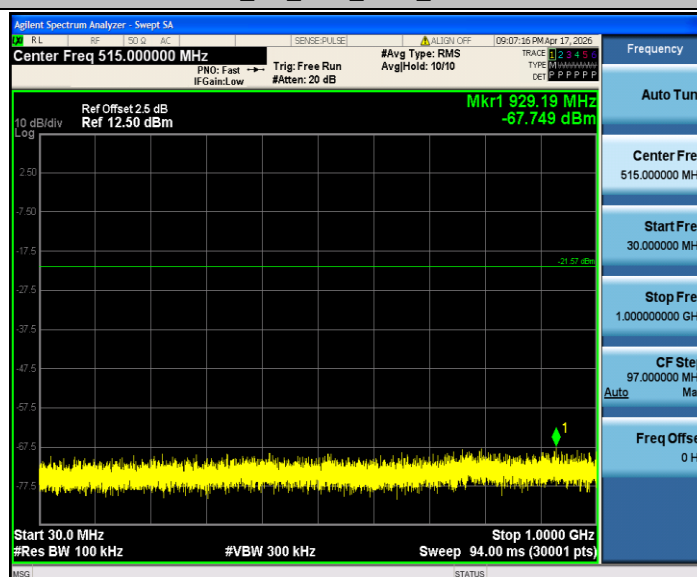




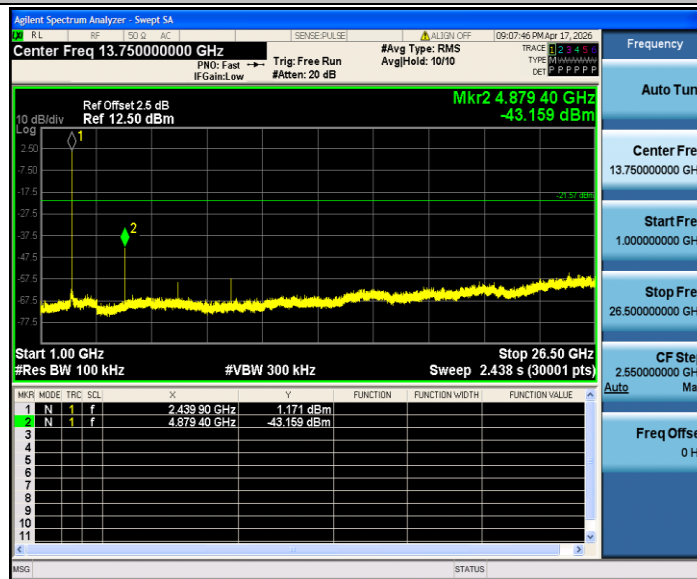
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



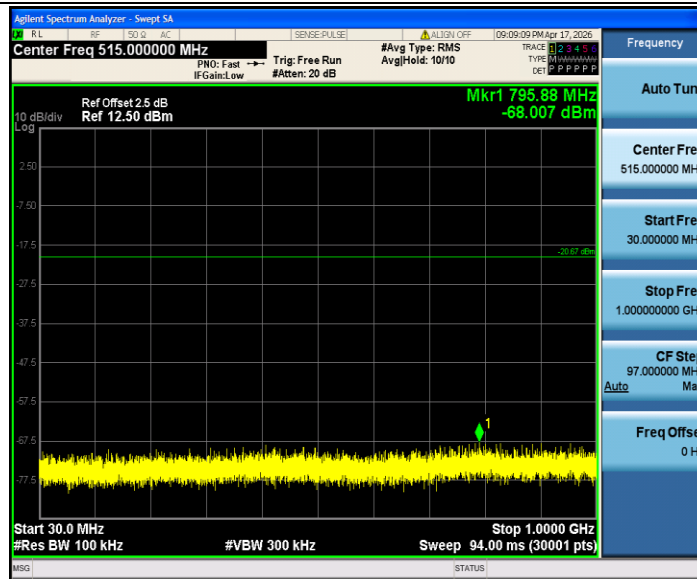
BLE_1M_Ant1_2440_1000~26500



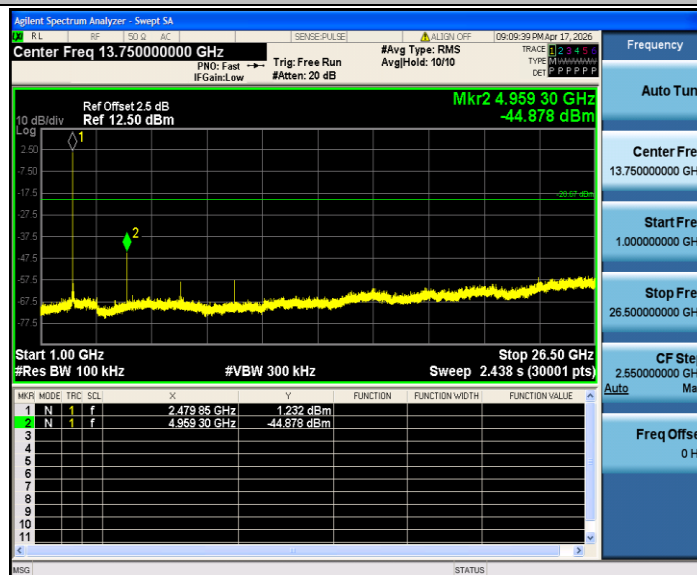
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

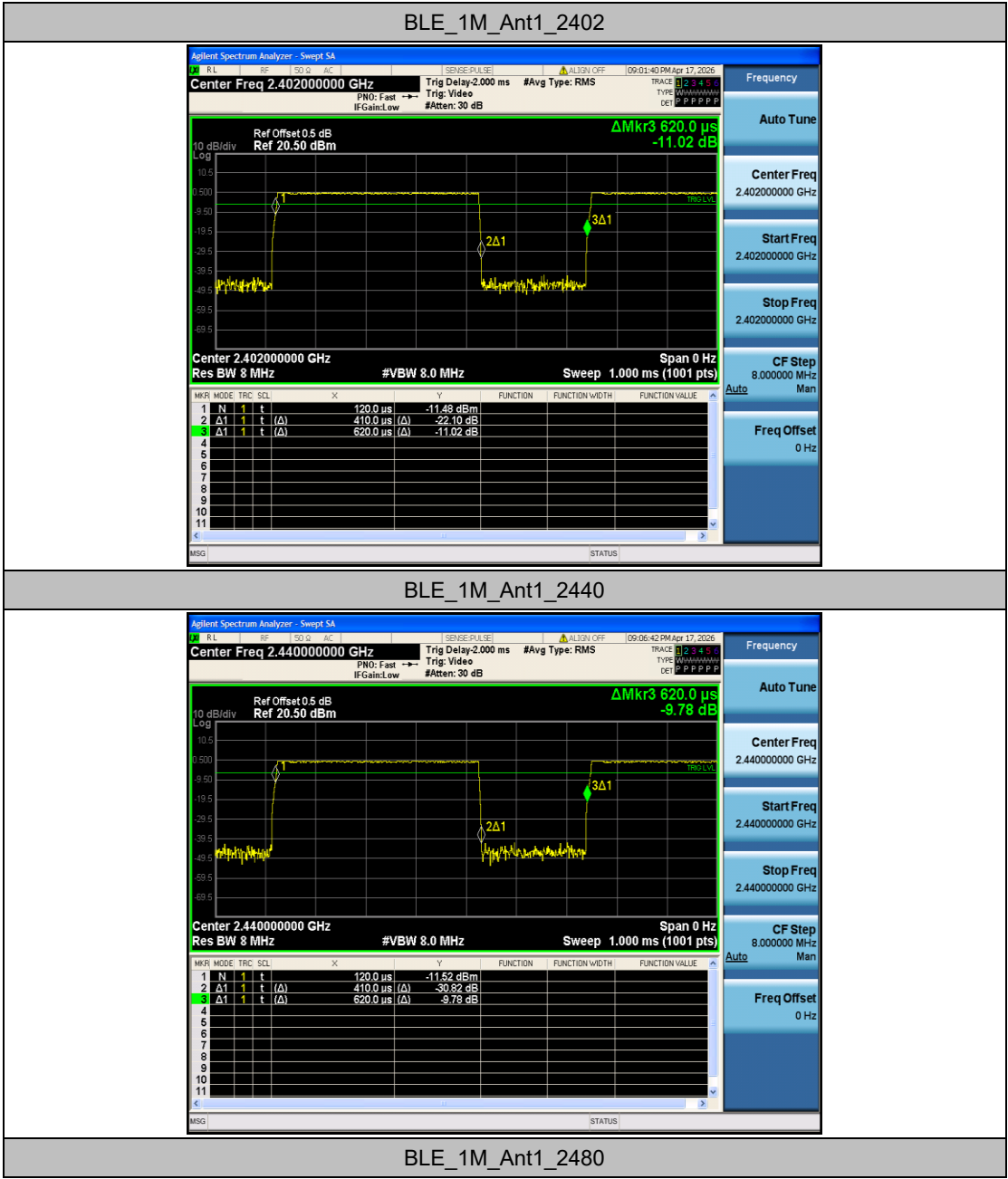


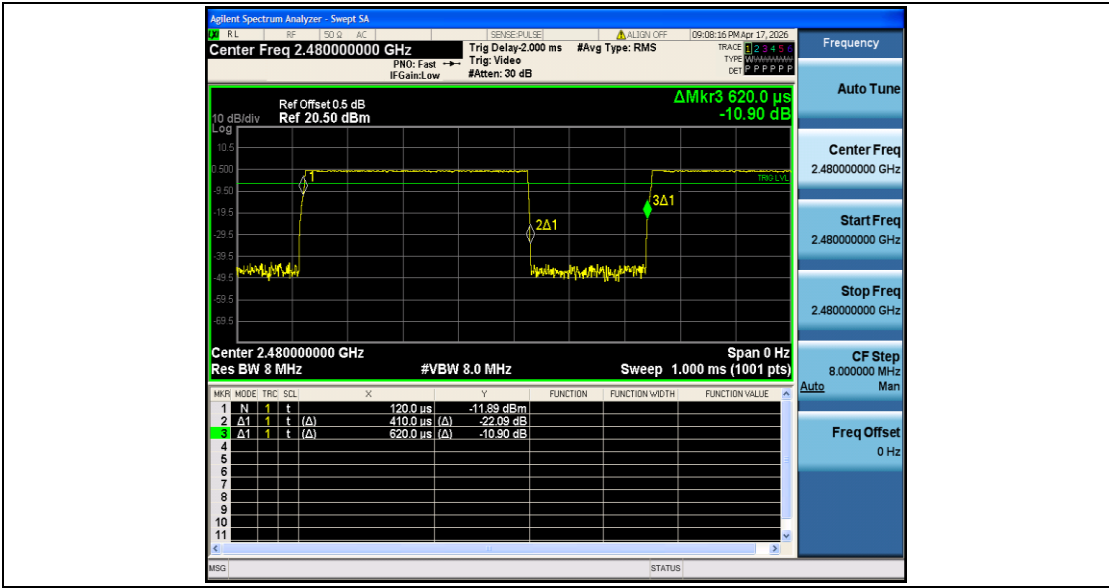
Appendix G: Duty Cycle

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	0.41	0.62	0.6613	66.13	1.80	---	---

Test Graphs





Appendix H: Emissions in Restricted Bands

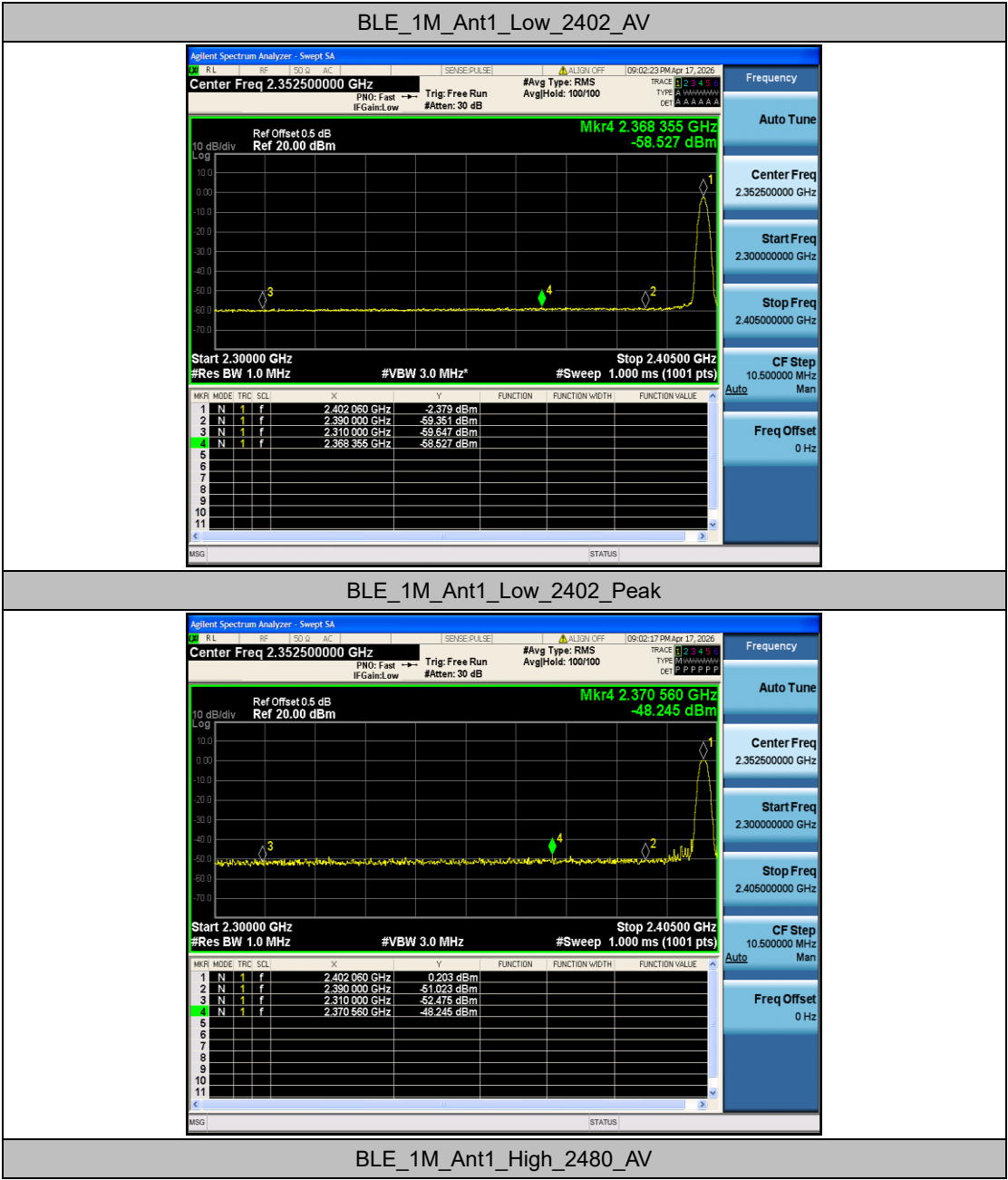
Test Result

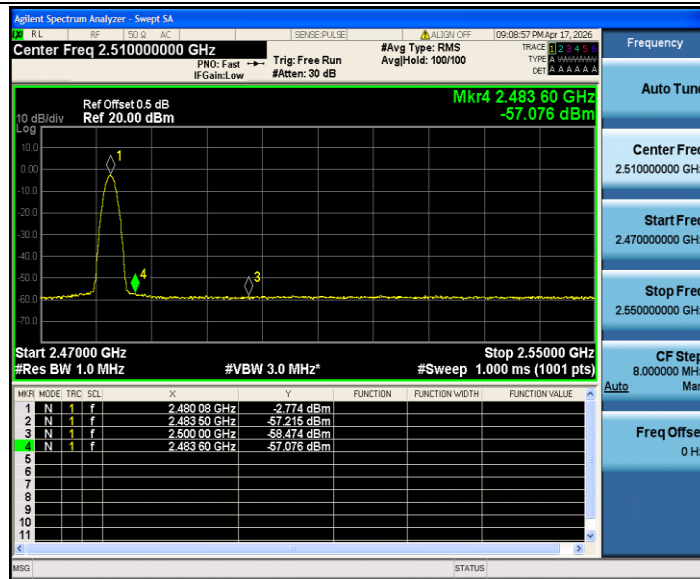
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-59.65	2.00	1.80	39.35	≤54	PASS
				AV	2368.355	-58.53	2.00	1.80	40.47	≤54	PASS
				AV	2390.000	-59.35	2.00	1.80	39.65	≤54	PASS
				Peak	2310.000	-52.48	2.00	0.00	44.72	≤74	PASS
				Peak	2370.560	-48.25	2.00	0.00	48.95	≤74	PASS
				Peak	2390.000	-51.02	2.00	0.00	46.18	≤74	PASS
		High	2480	AV	2483.500	-57.22	2.00	1.80	41.78	≤54	PASS
				AV	2483.600	-57.08	2.00	1.80	41.92	≤54	PASS
				AV	2500.000	-58.47	2.00	1.80	40.53	≤54	PASS
				Peak	2483.500	-48.36	2.00	0.00	48.84	≤74	PASS
				Peak	2484.320	-42.65	2.00	0.00	54.55	≤74	PASS
				Peak	2500.000	-51.67	2.00	0.00	45.53	≤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





BLE_1M_Ant1_High_2480_Peak

