

Appendix RF Test Data for BLE

FCC ID : 2BO7GS80

Company : Shenzhen Yiwei Technology Co., LTD

EUT : Wireless Earphone

Model Number : S80

Report No. : CTA25070700601

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	2401.676	2402.336	0.5	PASS
		2440	0.640	2439.692	2440.332	0.5	PASS
		2480	0.636	2479.696	2480.332	0.5	PASS

Test Graphs

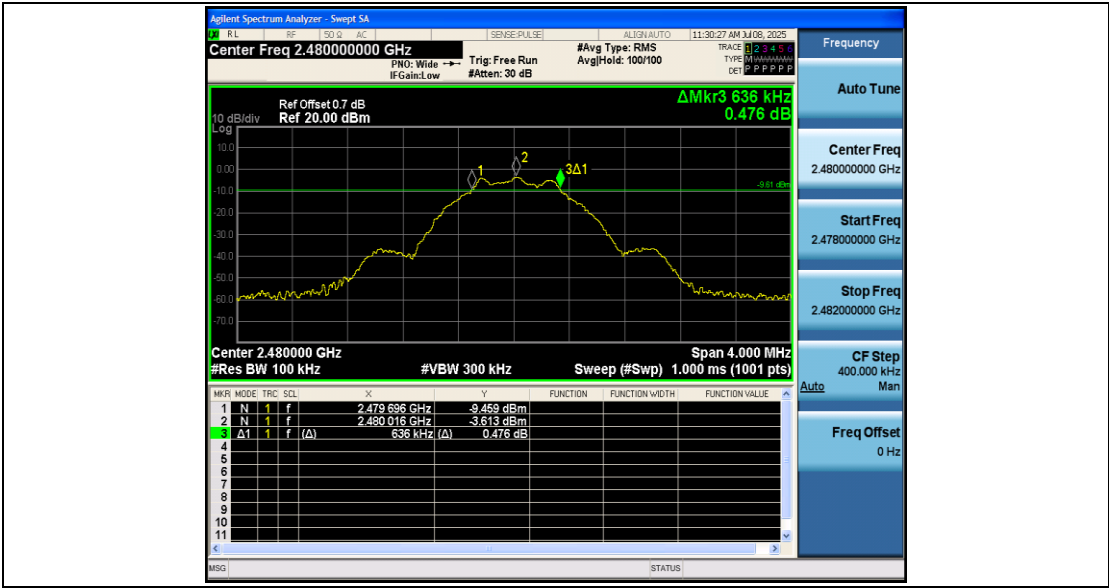
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

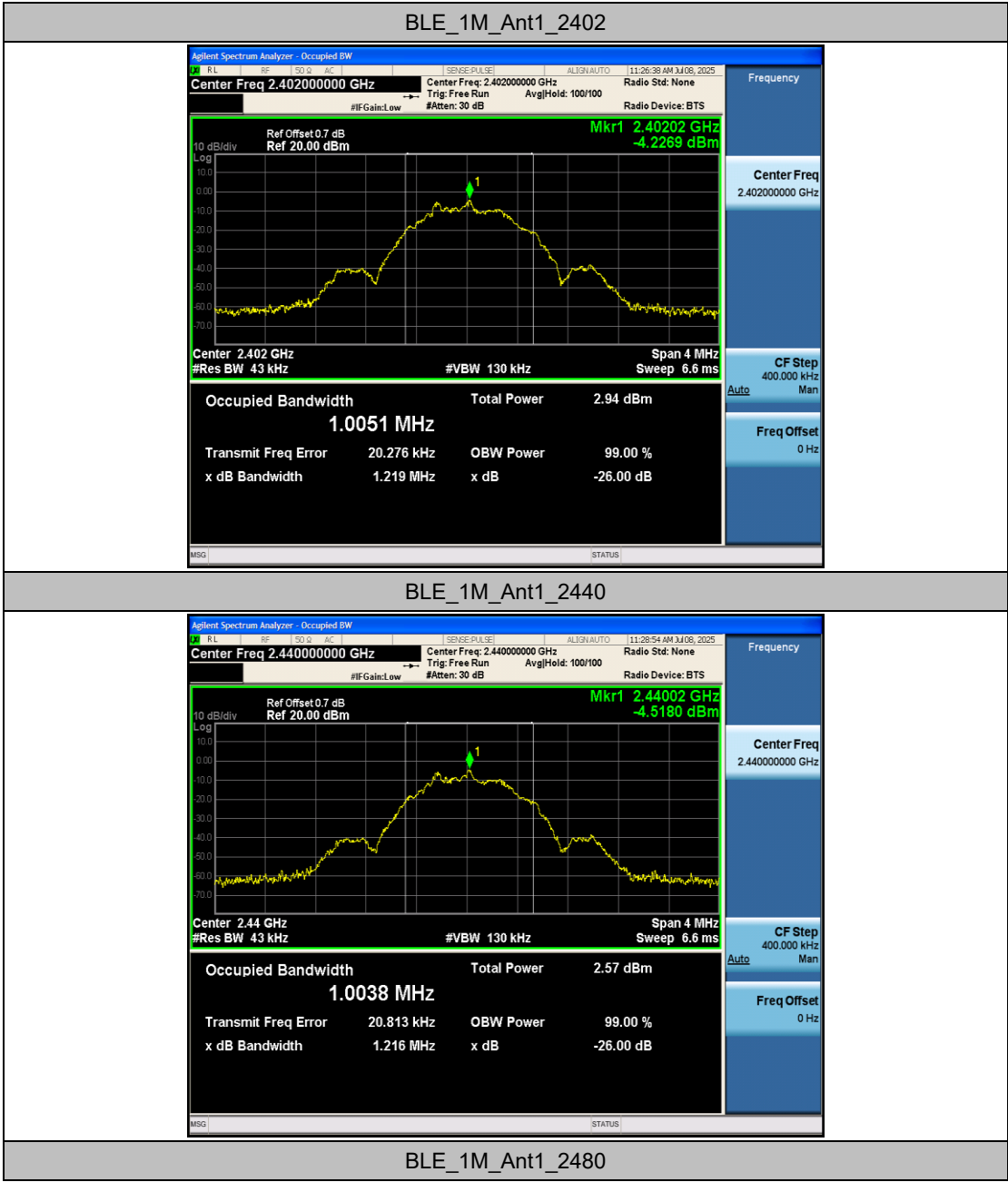


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0051	2401.5177	2402.5228	---	---
		2440	1.0038	2439.5189	2440.5227	---	---
		2480	1.0089	2479.5143	2480.5232	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

Left:

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.15	≤30	PASS
		2440	-3.42	≤30	PASS
		2480	-3.51	≤30	PASS

Right:

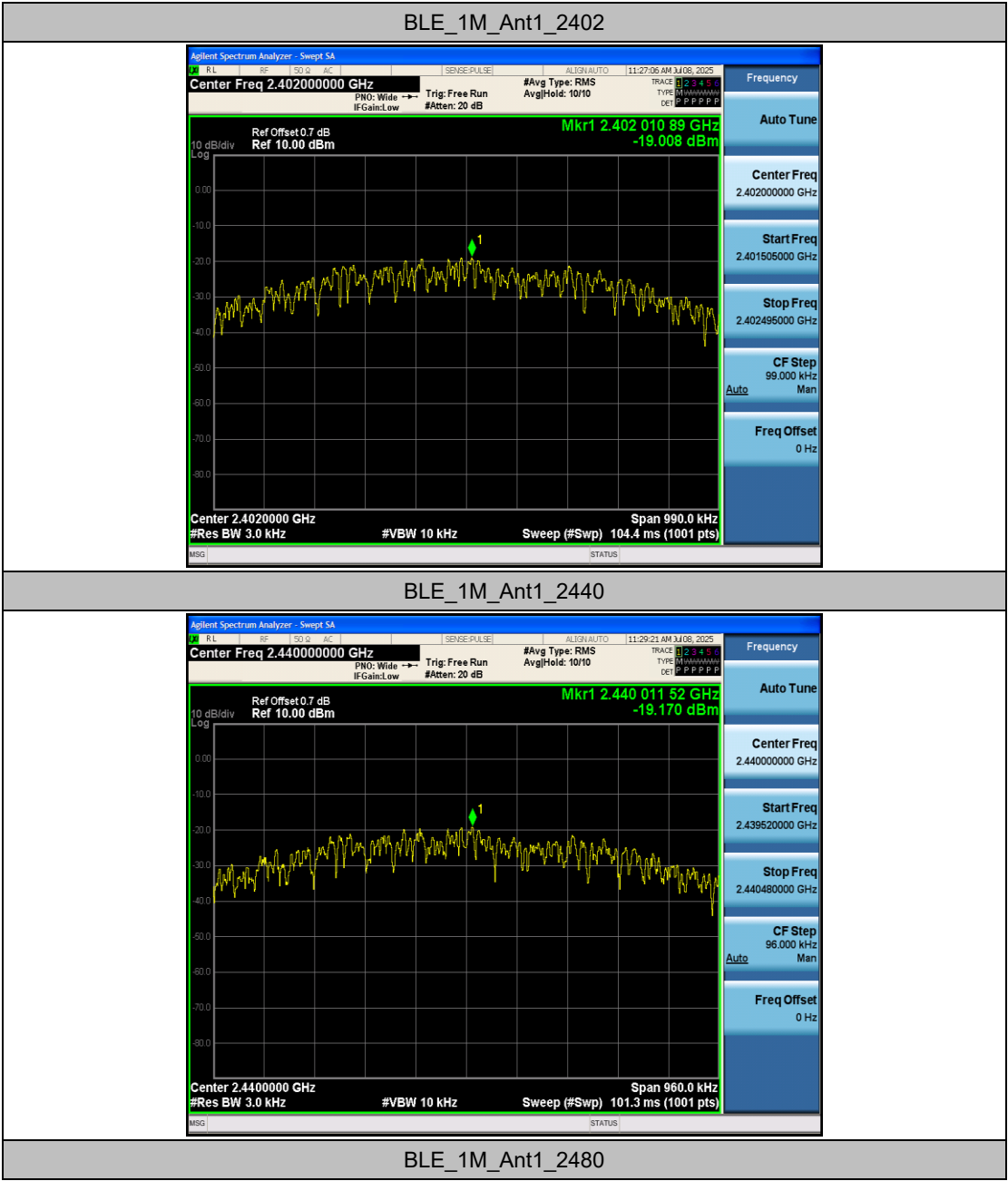
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.19	≤30	PASS
		2440	-3.68	≤30	PASS
		2480	-3.79	≤30	PASS

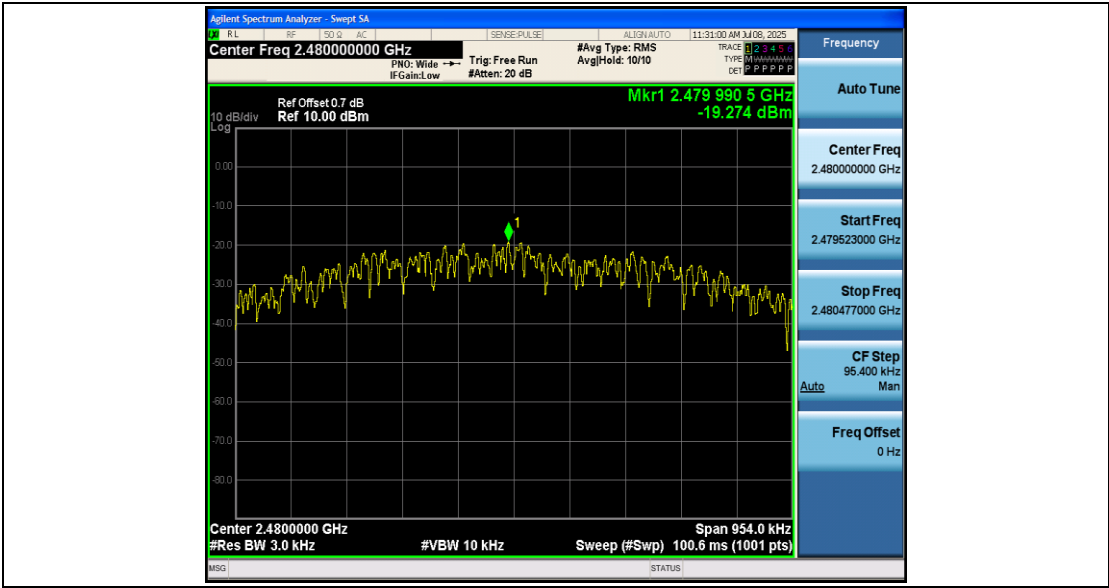
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.01	≤8.00	PASS
		2440	-19.17	≤8.00	PASS
		2480	-19.27	≤8.00	PASS

Test Graphs



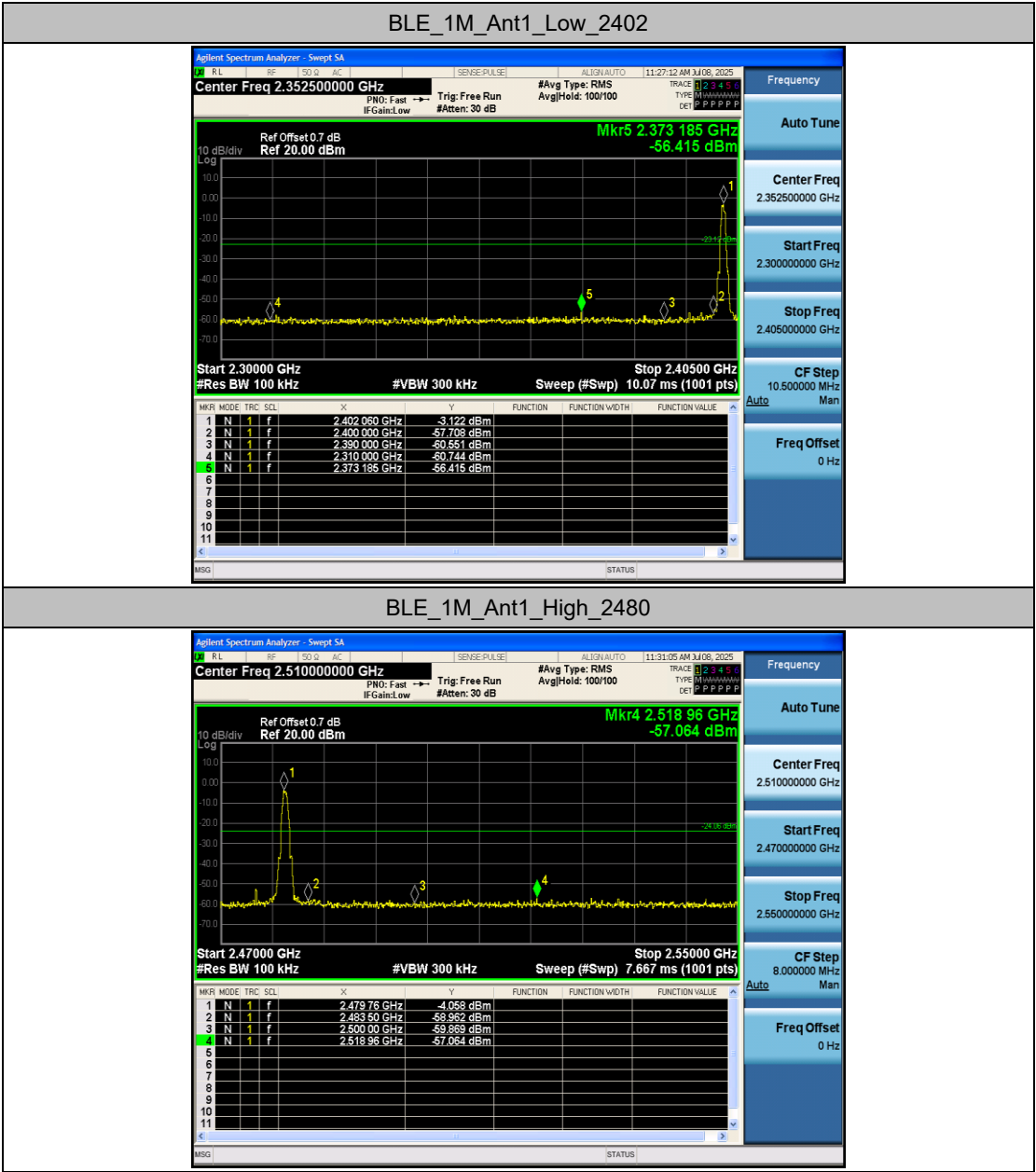


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.12	-56.42	≤-23.12	PASS
		High	2480	-4.06	-57.06	≤-24.06	PASS

Test Graphs

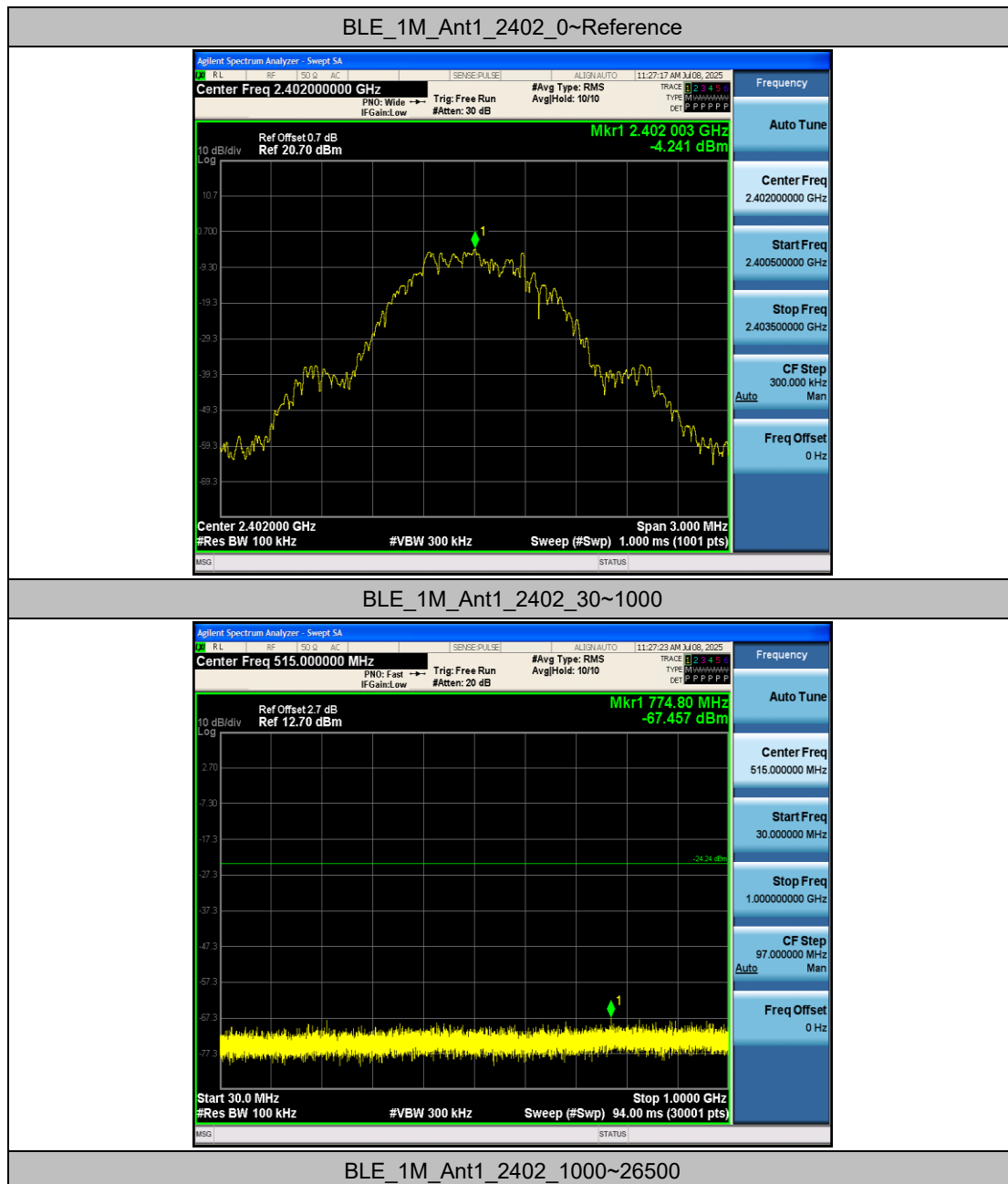


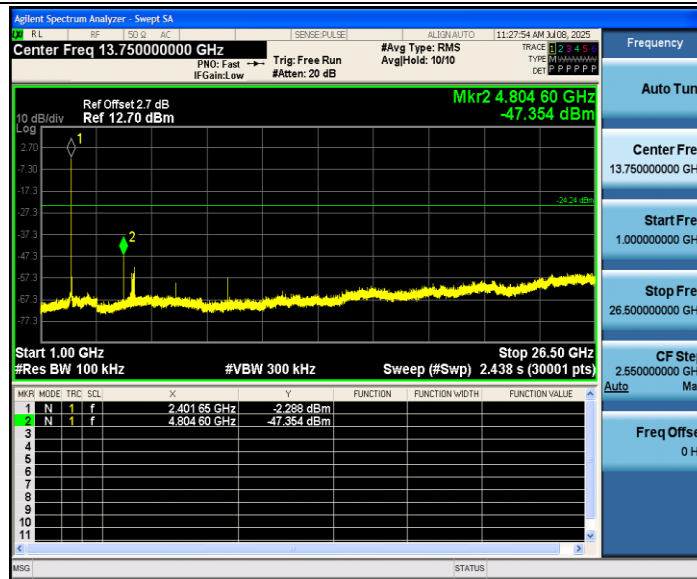
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.24	-4.24	---	PASS
			30~1000	-4.24	-67.46	≤-24.24	PASS
			1000~26500	-4.24	-47.35	≤-24.24	PASS
		2440	Reference	-5.53	-5.53	---	PASS
			30~1000	-5.53	-53.73	≤-25.53	PASS
			1000~26500	-5.53	-46.81	≤-25.53	PASS
		2480	Reference	-4.08	-4.08	---	PASS
			30~1000	-4.08	-67.66	≤-24.08	PASS
			1000~26500	-4.08	-48.18	≤-24.08	PASS

Test Graphs

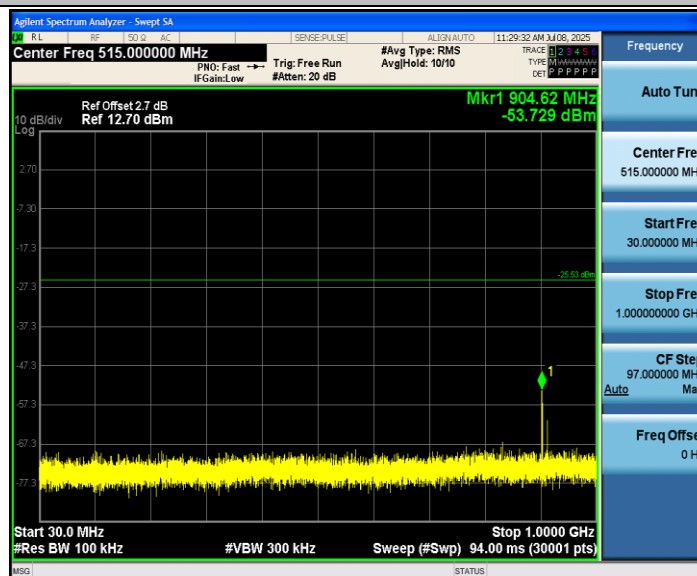




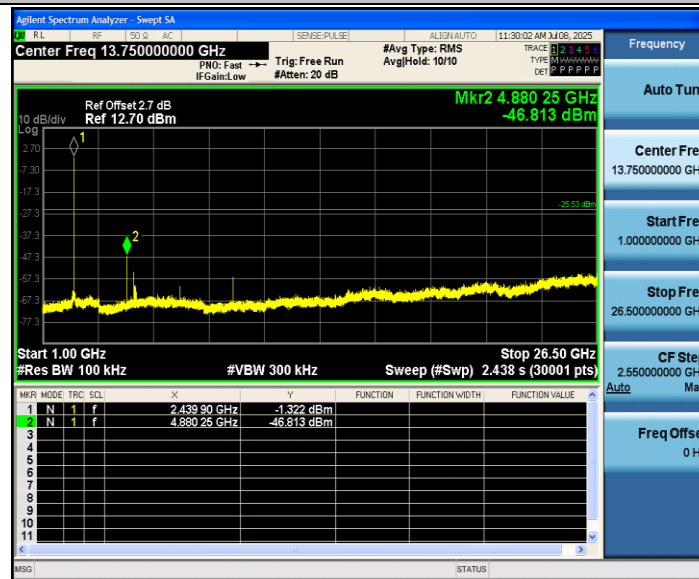
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



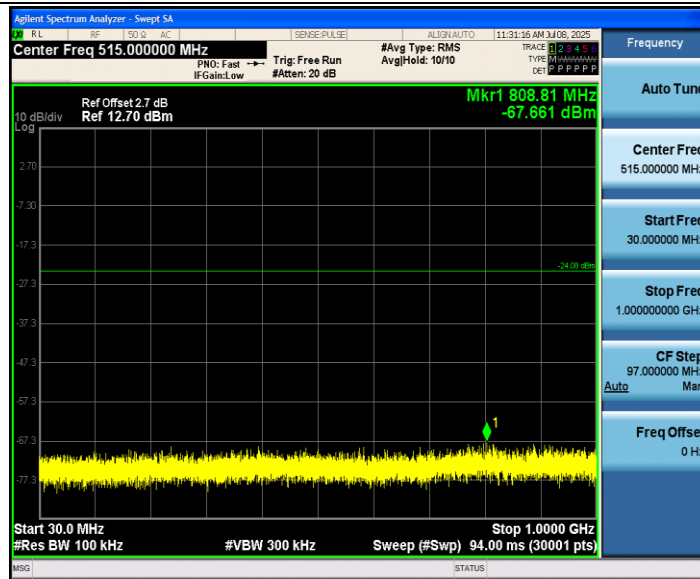
BLE_1M_Ant1_2440_1000~26500



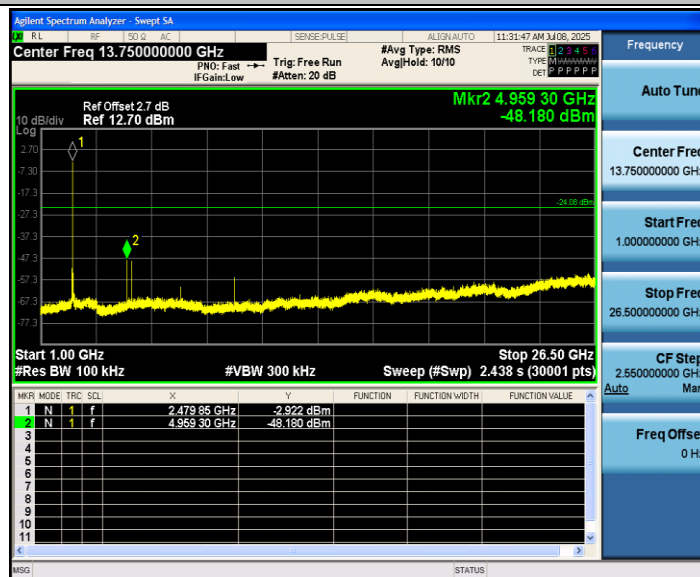
BLE_1M_Ant1_2480_0~Reference



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	0.63	0.6508	65.08	1.87	---	---
		2440	0.41	0.63	0.6508	65.08	1.87	---	---
		2480	0.41	0.63	0.6508	65.08	1.87	---	---

Test Graphs

