

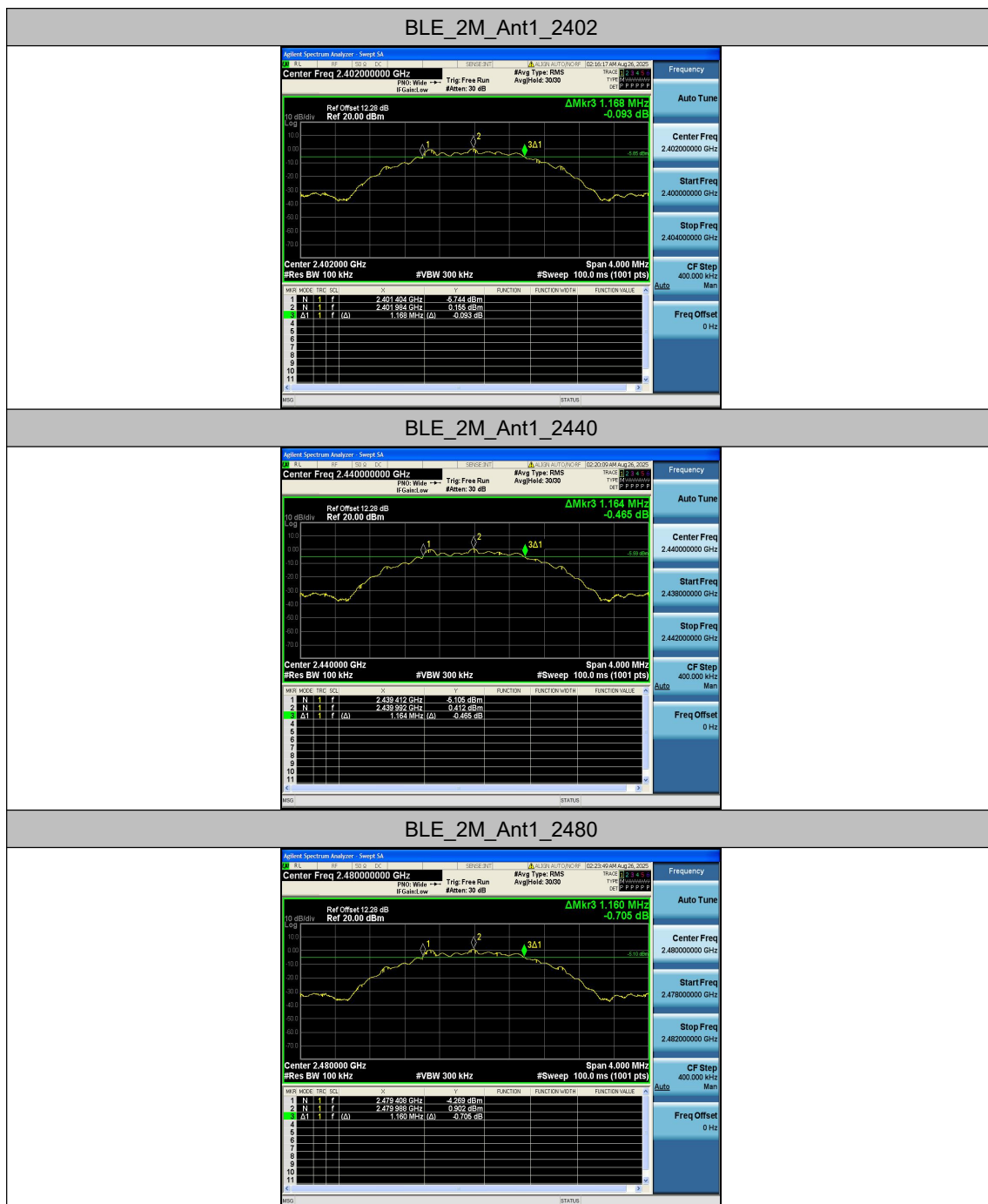
Appendix I BLE Test Data**Applicant:** Shenzhen chengtai electronic and technology co.,LTD**Report No:** DLE-250826003R**EUT:** Bluetooth Speaker**M/N:** TG674**Standard:**FCC Part15 Subpart C, Section 15.247**Test Power Supply:** DC 3.7V**Ambient Condition:** 24.7 °C, 52 %RH, 101.325 kPa**Test Date:** 2025.08.25**Test Engineer:** Ken Tan*Ken Tan*

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_2M	Ant1	2402	1.168	2401.404	2402.572	0.5	PASS
		2440	1.164	2439.412	2440.576	0.5	PASS
		2480	1.160	2479.408	2480.568	0.5	PASS

Test Graphs



Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_2M	Ant1	2402	2.0583	2400.9731	2403.0314	---	---
		2440	2.0335	2438.9878	2441.0213	---	---
		2480	2.0596	2478.9725	2481.0321	---	---

Test Graphs



Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Channel	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_2M	Ant1	2402	1.62	≤30	PASS
		2440	1.88	≤30	PASS
		2480	2.40	≤30	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_2M	Ant1	2402	-15.75	≤8.00	PASS
		2440	-15.28	≤8.00	PASS
		2480	-16.12	≤8.00	PASS

Figure 10 shows three screenshots of the Agilent Spectrum Analyzer interface, displaying the measured signal for the BLE_2M_Ant1_2402, BLE_2M_Ant1_2440, and BLE_2M_Ant1_2480 channels. Each screenshot includes the Center Freq, Span, Res BW, and other measurement parameters. The measured signal is shown as a yellow trace on a black background, with a peak marker (Mkr1) indicating the signal level. The signal level is approximately -15.7 dBm for the 2402 MHz channel, -15.27 dBm for the 2440 MHz channel, and -16.11 dBm for the 2480 MHz channel. The signal is centered around 2.4 GHz, with a span of 2.338 MHz and a resolution bandwidth (Res BW) of 3.0 kHz. The measurement is taken at 10 dBm, with a reference level of 10.00 dBm. The signal is identified as BLE_2M_Ant1_2402, BLE_2M_Ant1_2440, and BLE_2M_Ant1_2480.

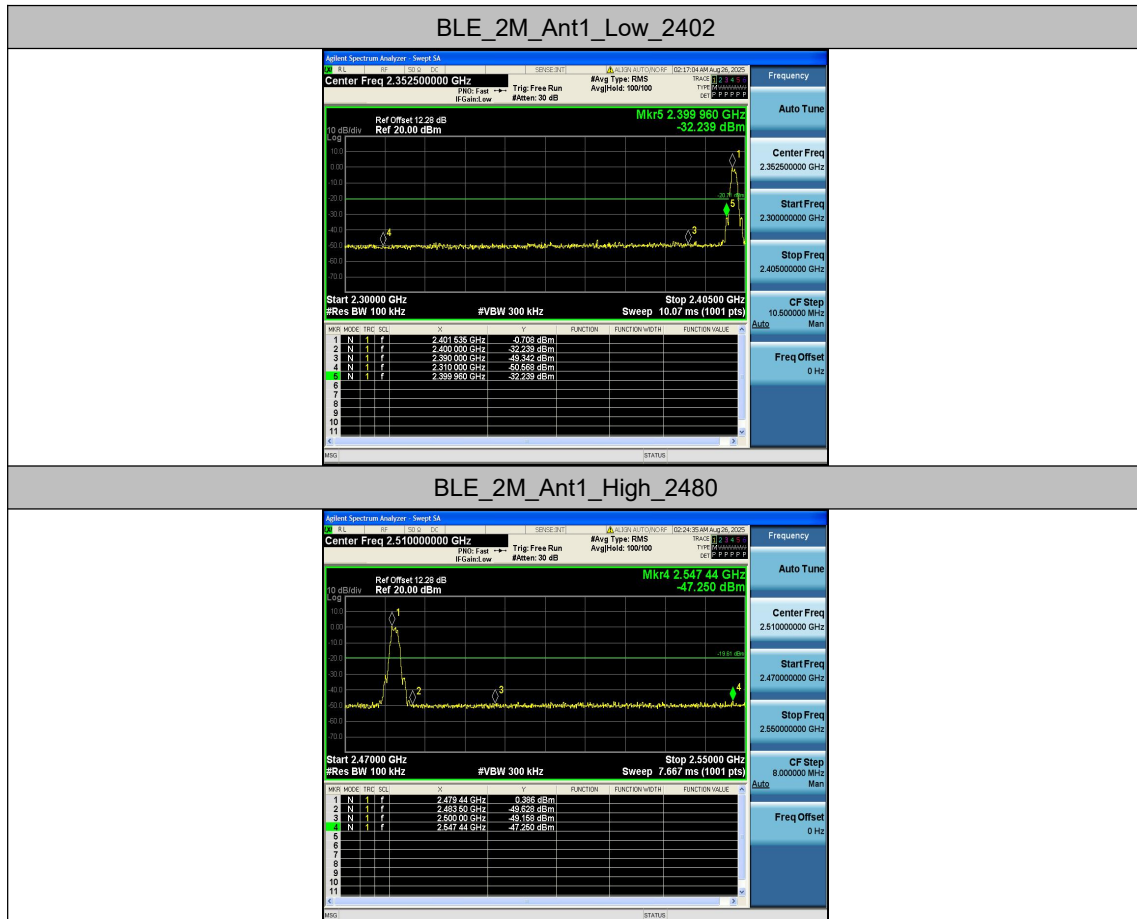
Figure 10: Measured signal for BLE_2M_Ant1_2402, BLE_2M_Ant1_2440, and BLE_2M_Ant1_2480 channels. The signal is centered around 2.4 GHz, with a span of 2.338 MHz and a resolution bandwidth (Res BW) of 3.0 kHz. The measurement is taken at 10 dBm, with a reference level of 10.00 dBm. The signal is identified as BLE_2M_Ant1_2402, BLE_2M_Ant1_2440, and BLE_2M_Ant1_2480.

Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_2M	Ant1	Low	2402	-0.71	-32.24	≤-20.71	PASS
		High	2480	0.39	-47.25	≤-19.61	PASS

Test Graphs

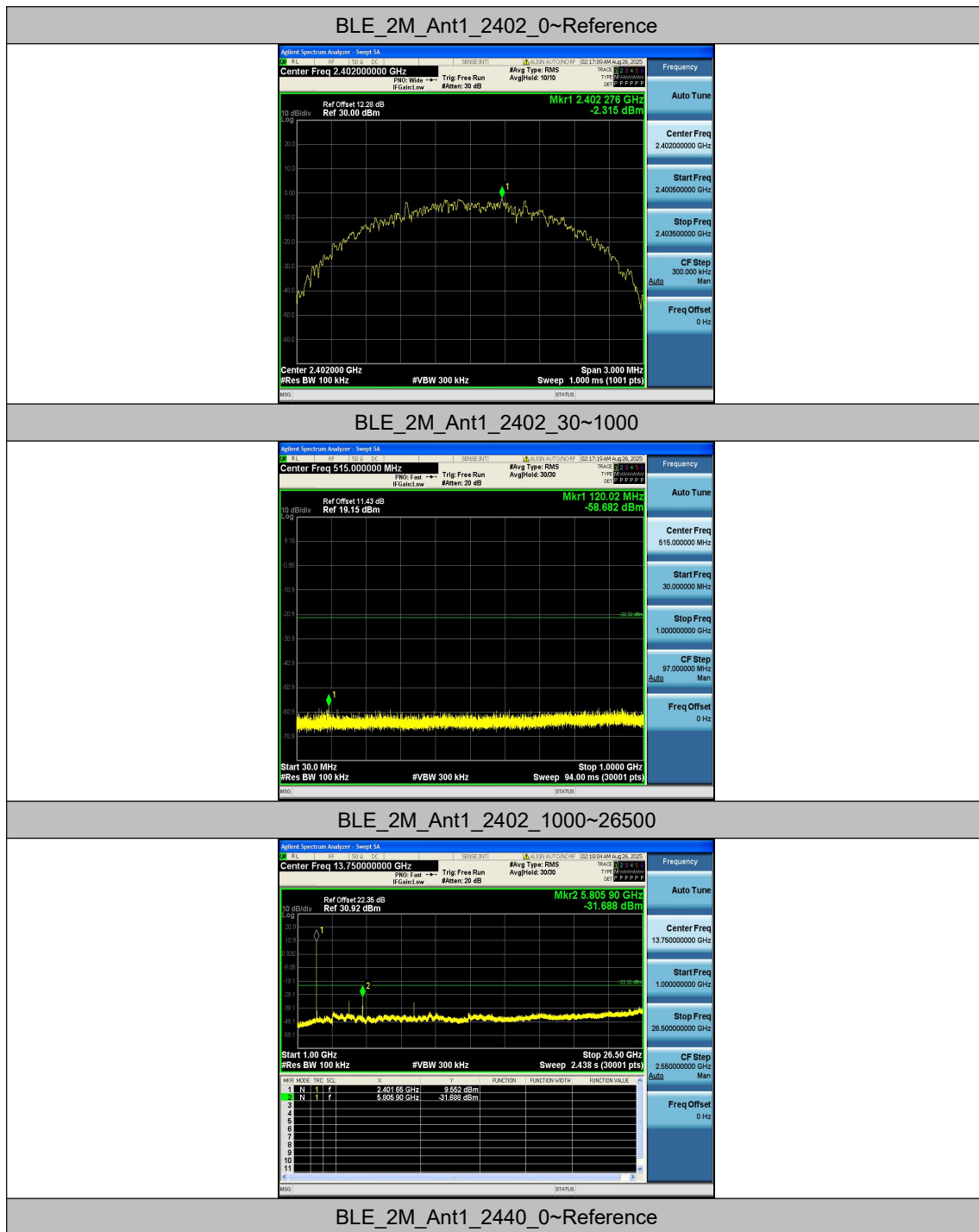


Appendix F: Conducted Spurious Emission

Test Result

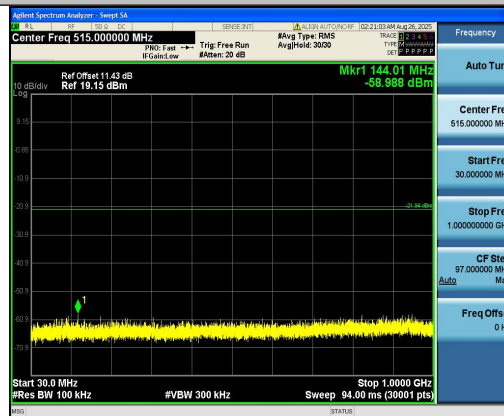
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_2M	Ant1	2402	Reference	-2.32	-2.32	---	PASS
			30~1000	-2.32	-58.68	≤-22.32	PASS
			1000~26500	-2.32	-31.69	≤-22.32	PASS
		2440	Reference	-1.94	-1.94	---	PASS
			30~1000	-1.94	-58.99	≤-21.94	PASS
			1000~26500	-1.94	-33.85	≤-21.94	PASS
		2480	Reference	-1.91	-1.91	---	PASS
			30~1000	-1.91	-58.48	≤-21.91	PASS
			1000~26500	-1.91	-36.82	≤-21.91	PASS

Test Graphs

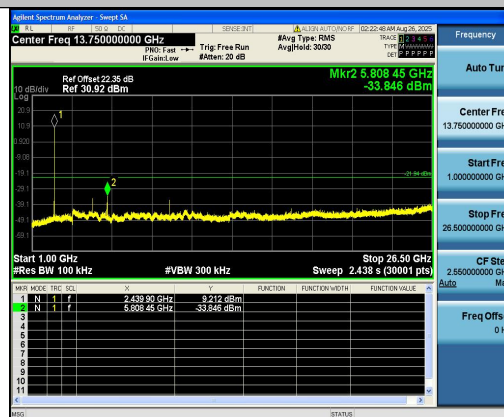




BLE_2M_Ant1_2440_30~1000



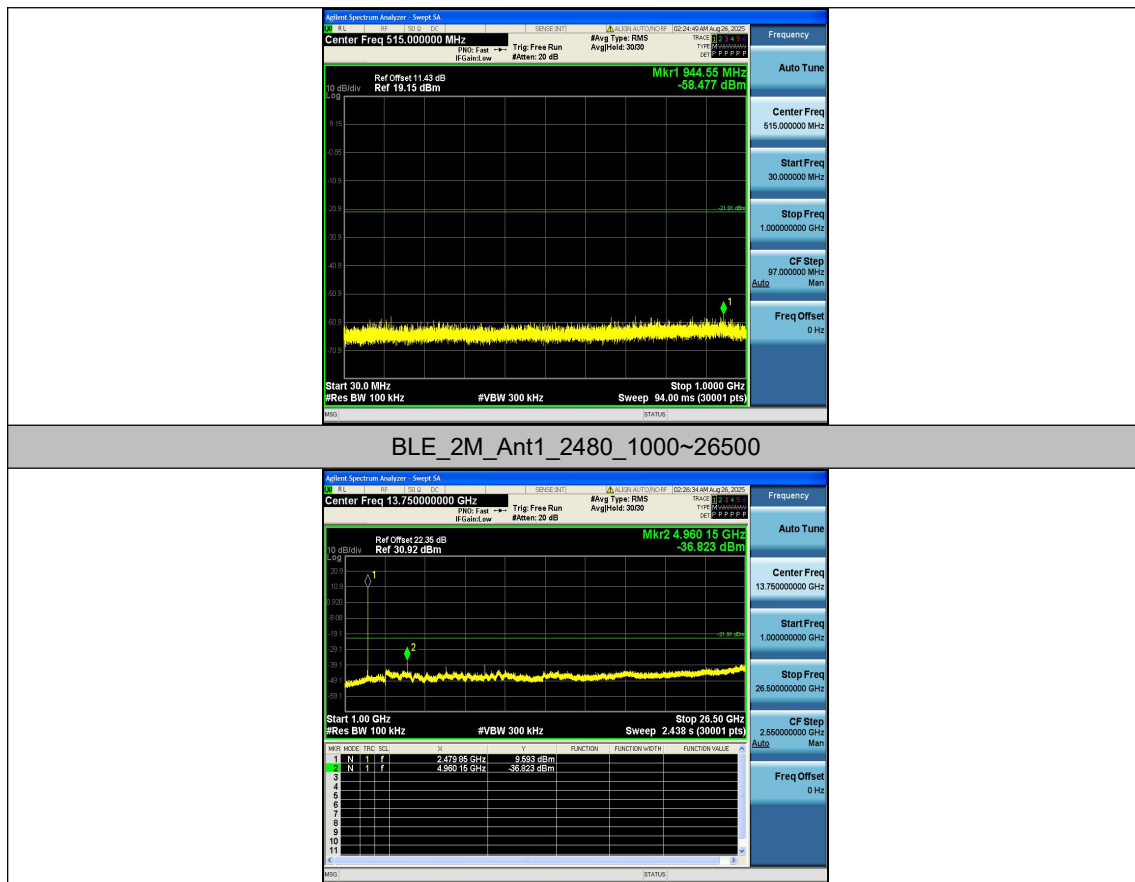
BLE_2M_Ant1_2440_1000~26500



BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_2M	Ant1	2402	1.07	1.25	0.8560	85.60	0.68	---	---
		2440	1.07	1.25	0.8560	85.60	0.68	---	---
		2480	1.07	1.25	0.8560	85.60	0.68	---	---

Test Graphs

