

Appendix FCC Test Data
Applicant: <u>Shenzhen Zhongxiangxin Technology Co., Ltd</u>
Case No. : <u>NCT24051387XE</u>
EUT: <u>Finder Tag</u>
M/N: <u>AK30</u>
Standard: <u>FCC Part15 Subpart C, Section 15.247</u>
Test Power Supply: <u>DC 3V</u>
Ambient Condition: <u>25</u> °C, <u>45</u> %RH, <u>101.325</u> kPa
Test Date: <u>Dec. 17, 2024</u> Test Engineer: <u>Keven Wu</u>

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_2M	Ant1	2402	1.164	2401.408	2402.572	0.5	PASS
		2440	1.168	2439.408	2440.576	0.5	PASS
		2480	1.164	2479.408	2480.572	0.5	PASS

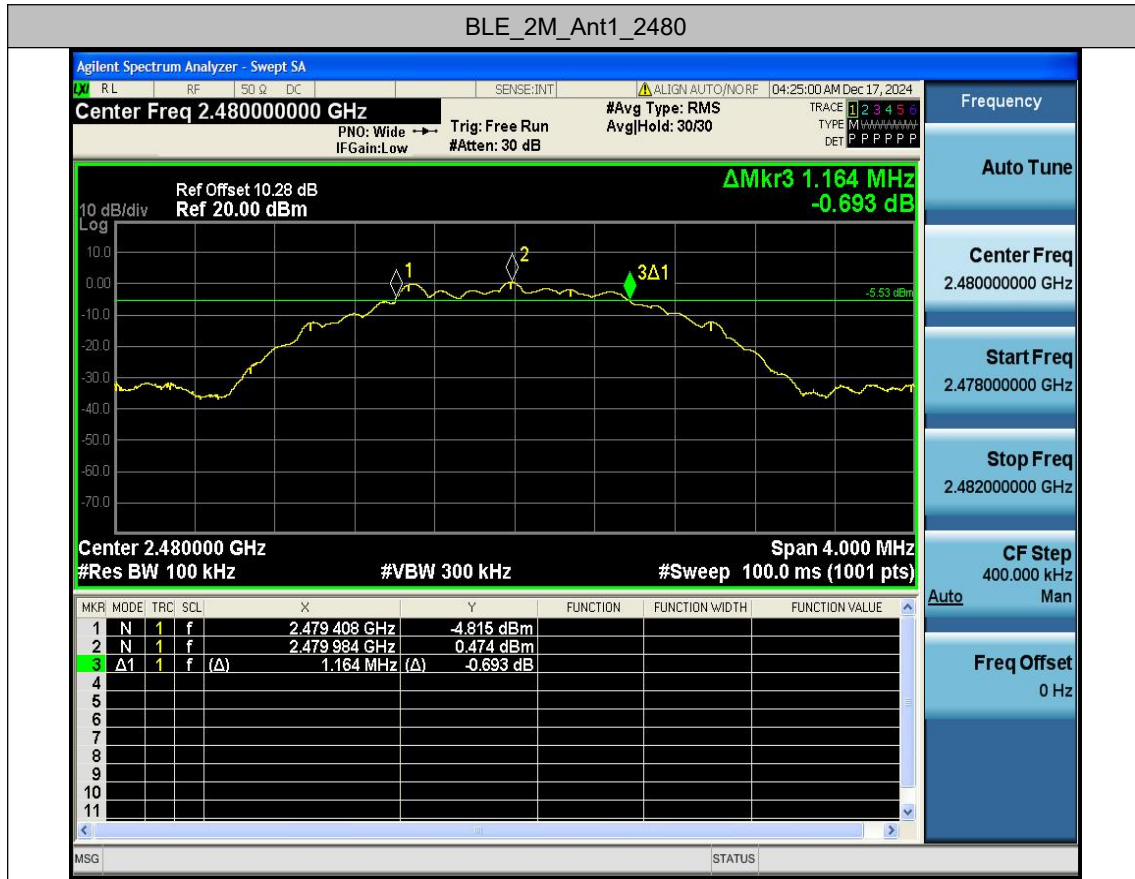
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



Appendix B: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Channel	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_2M	Ant1	2402	0.99	≤30	PASS
		2440	1.35	≤30	PASS
		2480	1.98	≤30	PASS

Appendix C: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_2M	Ant1	2402	-16.44	≤8.00	PASS
		2440	-15.99	≤8.00	PASS
		2480	-15.66	≤8.00	PASS

BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

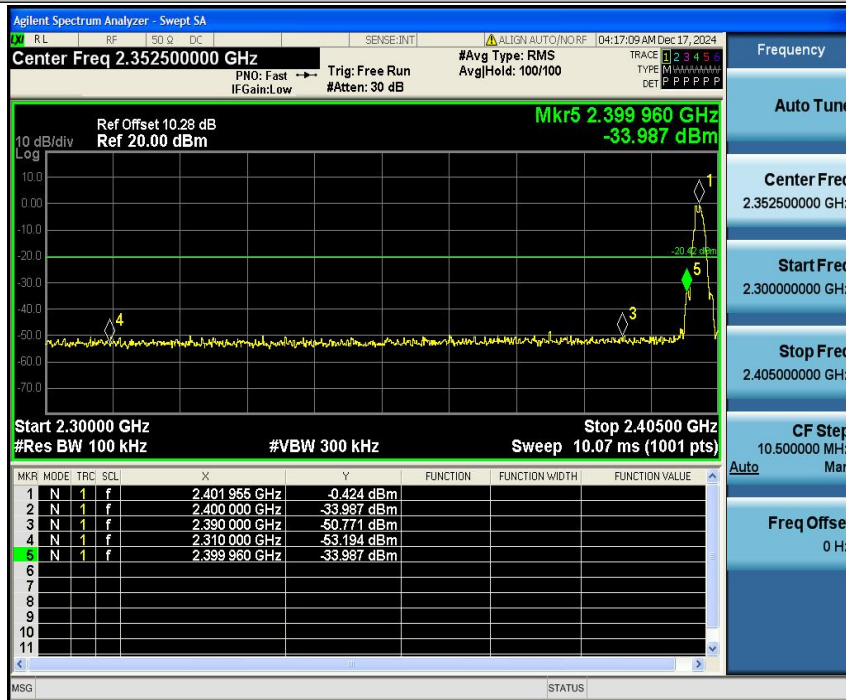


Appendix D: Band edge measurements

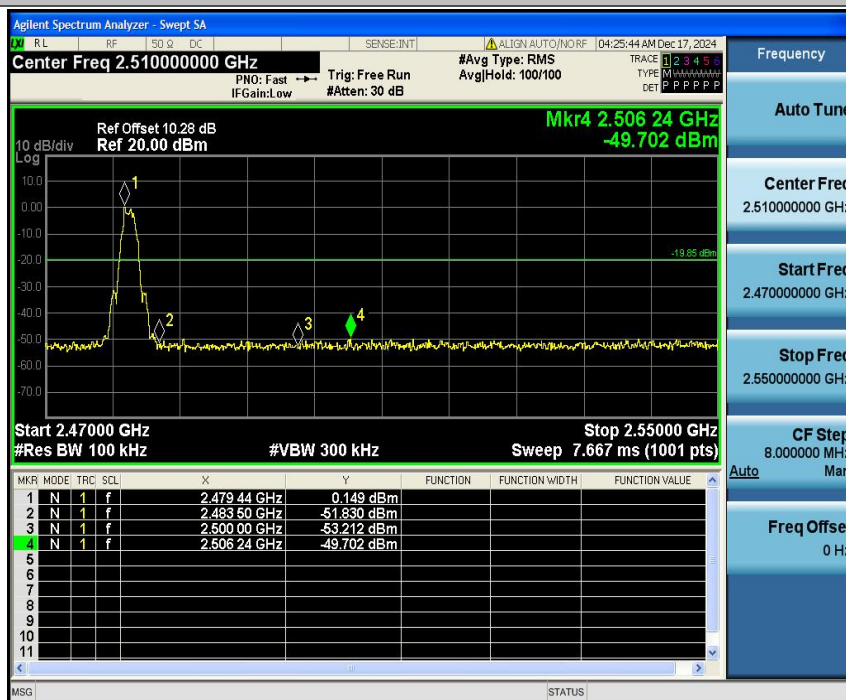
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_2M	Ant1	Low	2402	-0.42	-33.99	≤-20.42	PASS
		High	2480	0.15	-49.7	≤-19.85	PASS

BLE_2M_Ant1_Low_2402



BLE_2M_Ant1_High_2480



Appendix E: Conducted Spurious Emission

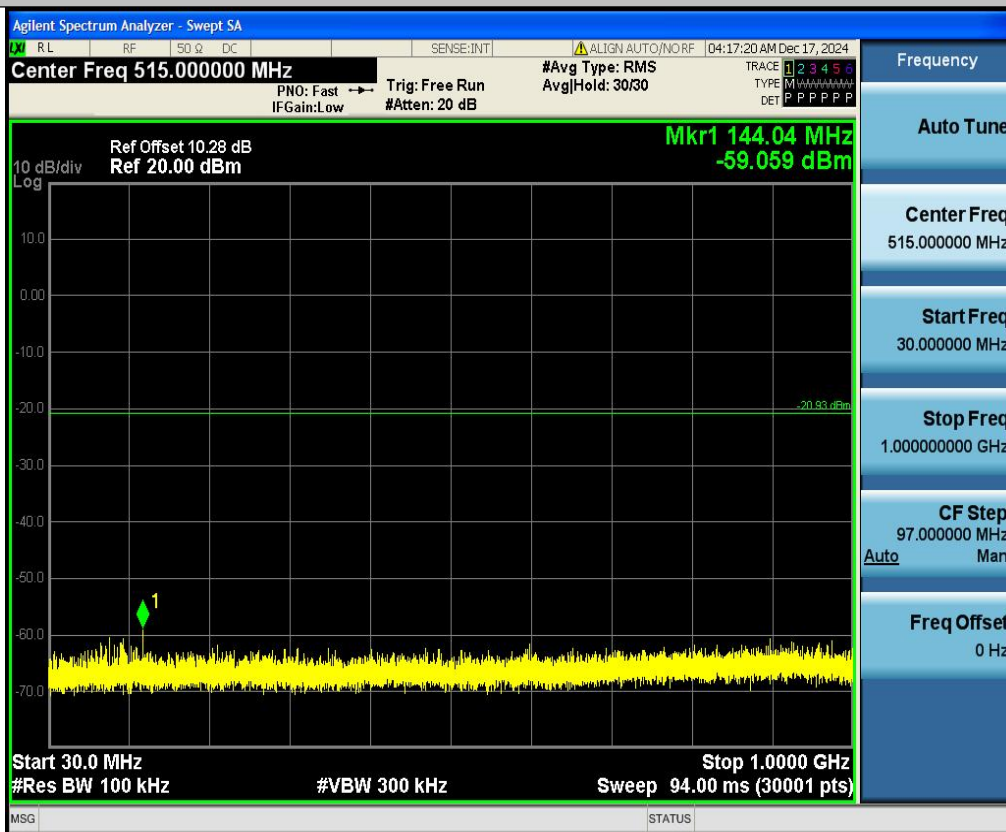
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_2M	Ant1	2402	Reference	-0.93	-0.93	---	PASS
			30~1000	-0.93	-59.06	≤-20.93	PASS
			1000~26500	-0.93	-45.12	≤-20.93	PASS
		2440	Reference	-2.46	-2.46	---	PASS
			30~1000	-2.46	-58.76	≤-22.46	PASS
			1000~26500	-2.46	-42.16	≤-22.46	PASS
		2480	Reference	-1.90	-1.90	---	PASS
			30~1000	-1.90	-57.83	≤-21.9	PASS
			1000~26500	-1.90	-42.21	≤-21.9	PASS

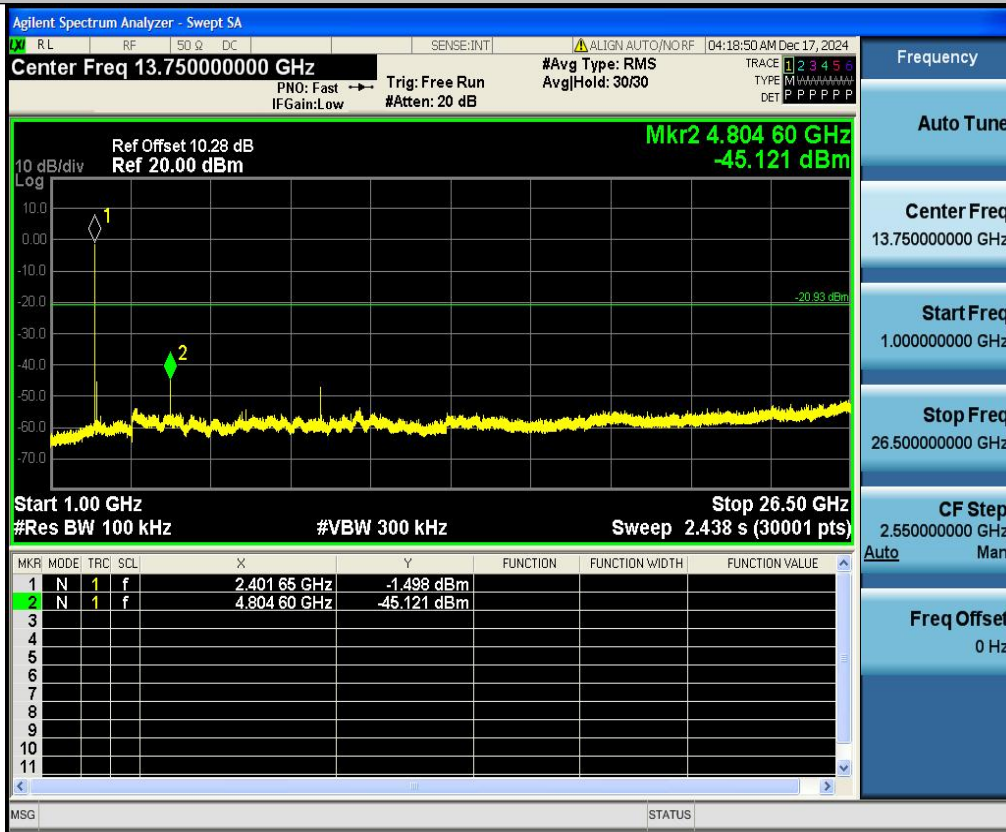
BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000



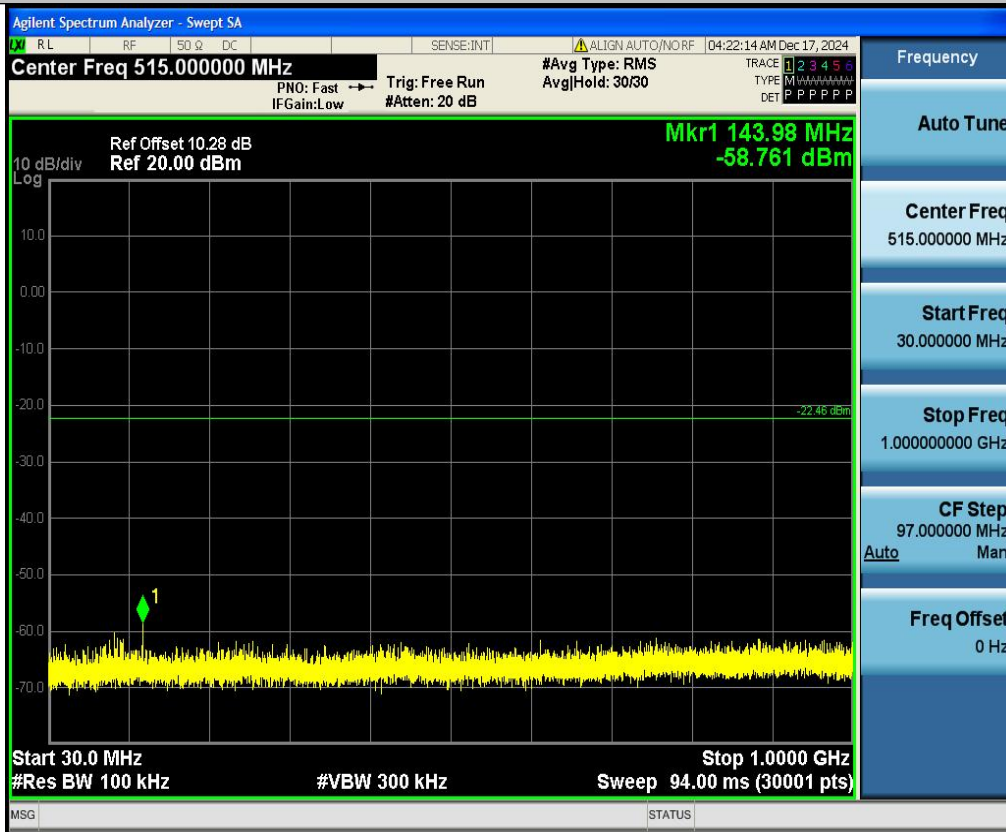
BLE_2M_Ant1_2402_1000~26500



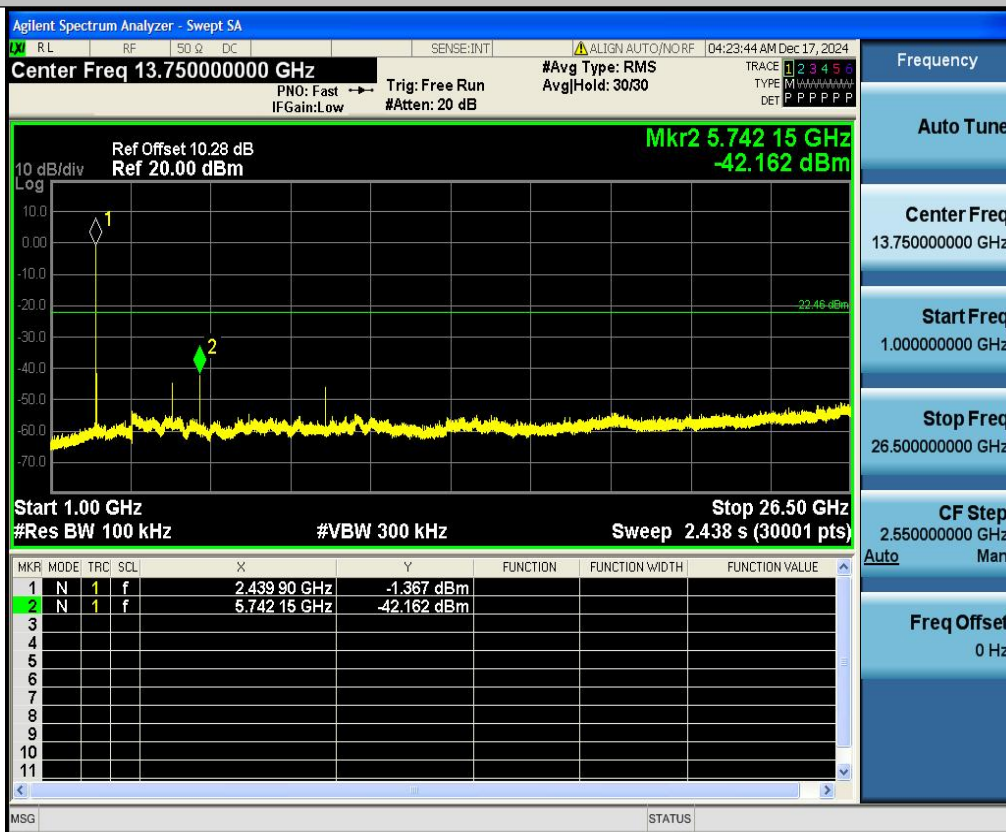
BLE_2M_Ant1_2440_0~Reference



BLE_2M_Ant1_2440_30~1000



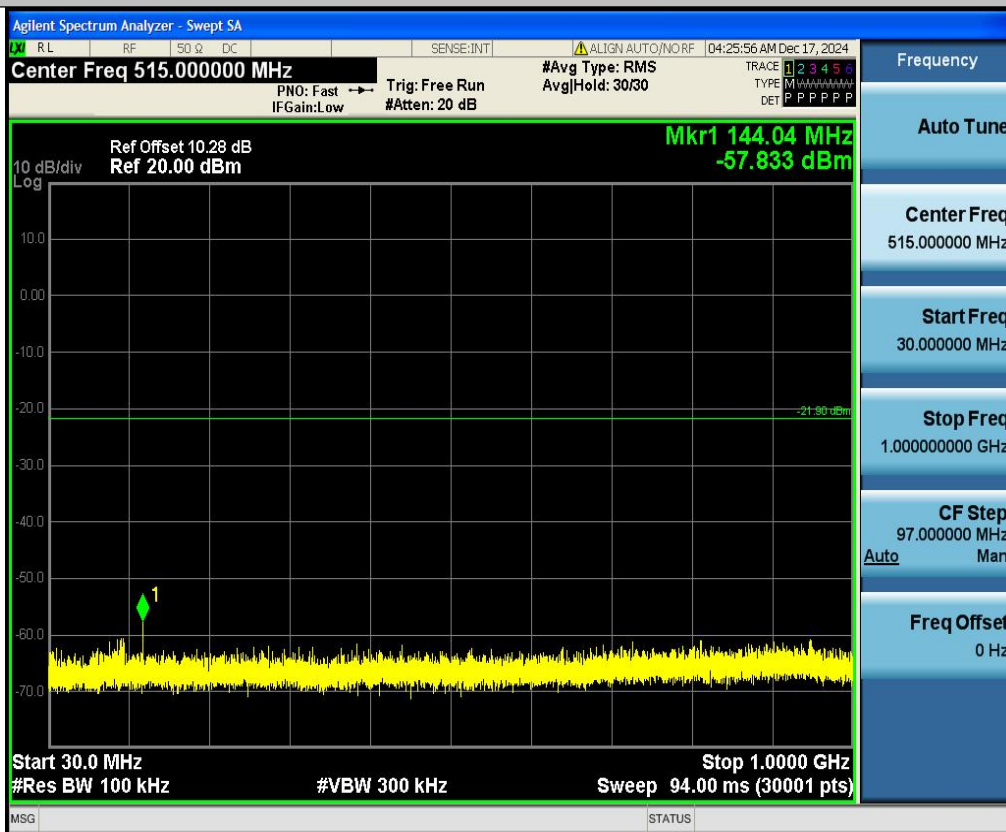
BLE_2M_Ant1_2440_1000~26500



BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000

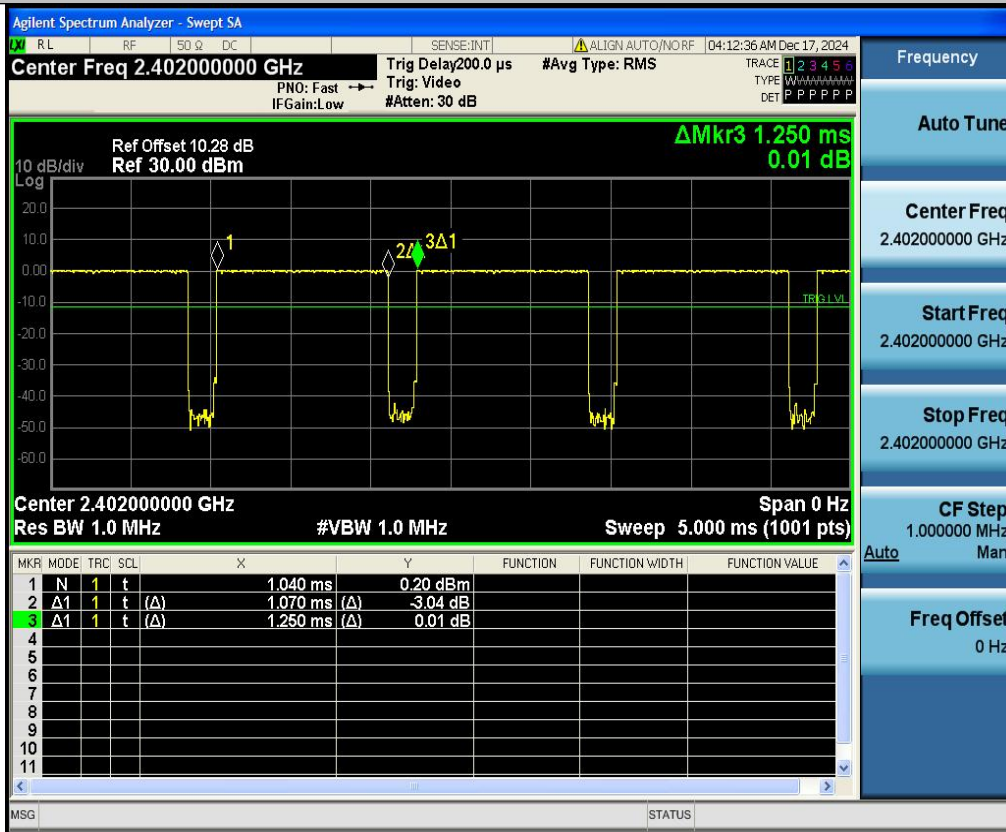


Appendix F: Duty Cycle

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	---	---

BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

