

Appendix Test Data for Zigbee (Conducted Measurement)

Product Name: F2 LIGHT STICK

Trade Mark: N/A

Test Model: F2RV1

FCC ID: 2A95E-F2RV1

Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

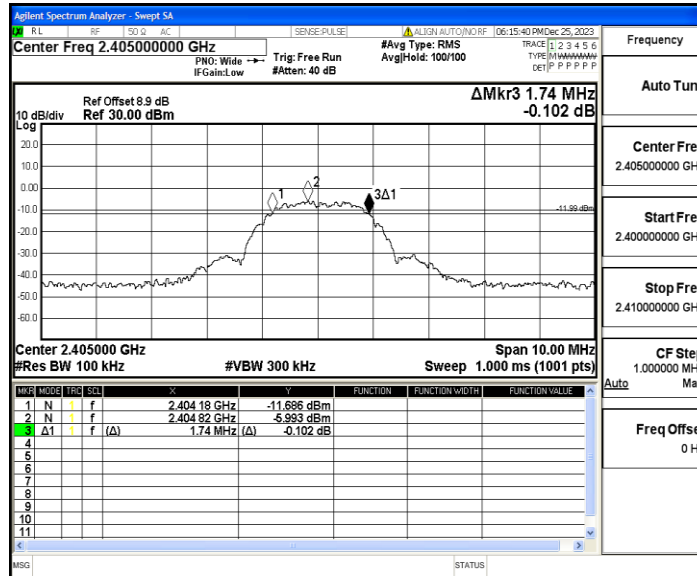
Appendix A: DTS Bandwidth

Test Result

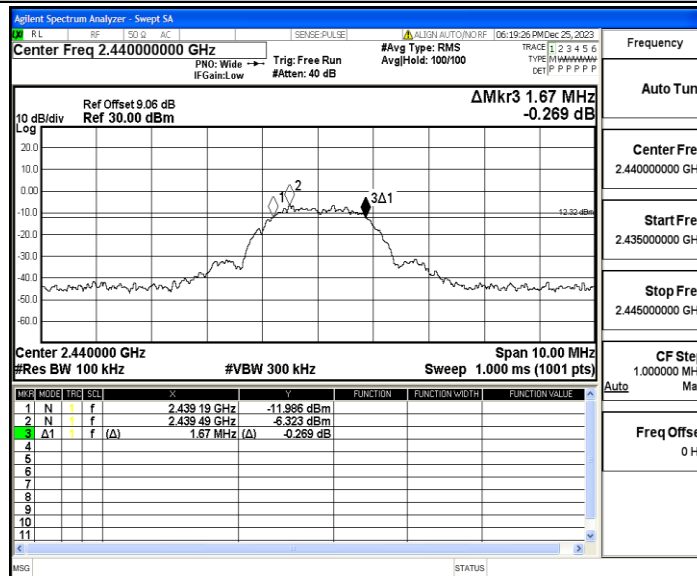
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
ZIGB	Ant1	2405	1.740	2404.180	2405.920	0.5	PASS
		2440	1.670	2439.190	2440.860	0.5	PASS
		2480	1.830	2479.100	2480.930	0.5	PASS

Test Graphs

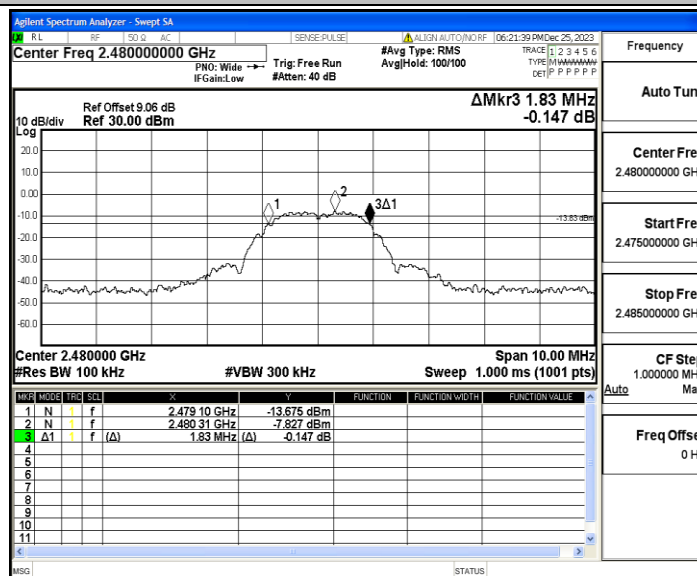
ZIGB_Ant1_2405



ZIGB_Ant1_2440



ZIGB_Ant1_2480

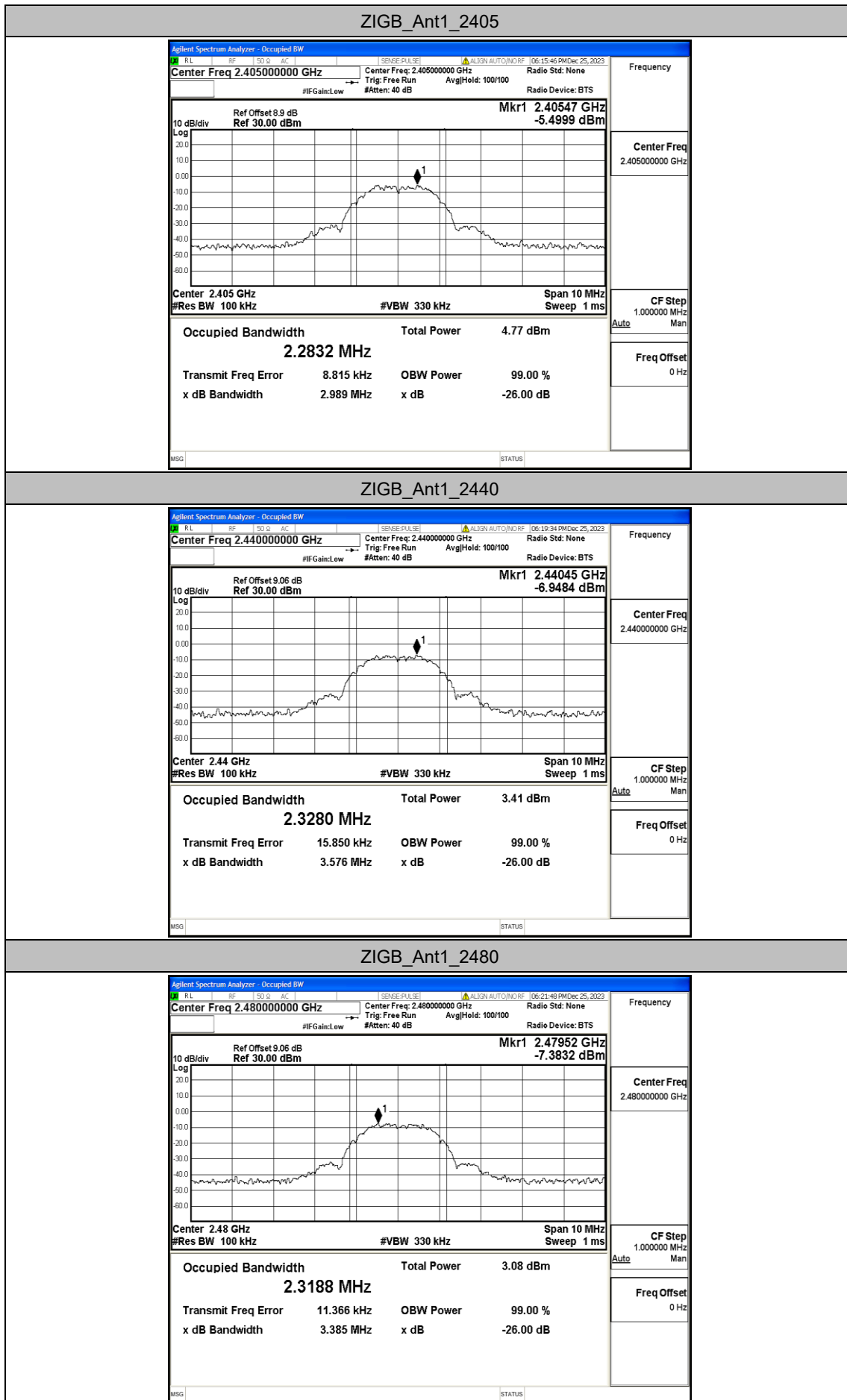


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
ZIGB	Ant1	2405	2.2832	2403.8672	2406.1504	---	---
		2440	2.3280	2438.8519	2441.1799	---	---
		2480	2.3188	2478.8520	2481.1708	---	---

Test Graphs



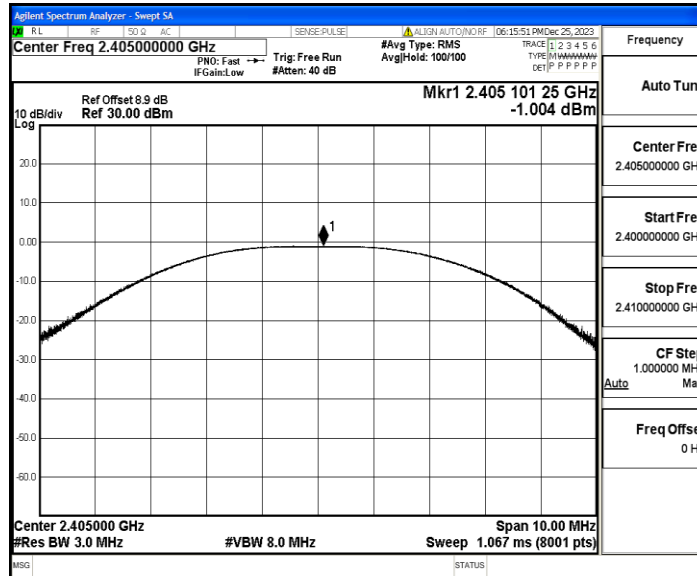
Appendix C: Maximum conducted output power

Test Result

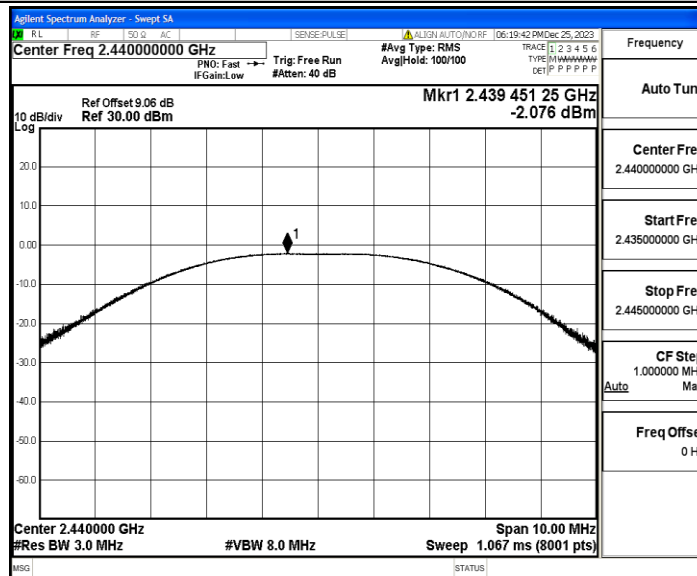
TestMode	Antenna	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
ZIGB	Ant1	2405	-1.00	≤30	PASS
		2440	-2.08	≤30	PASS
		2480	-2.56	≤30	PASS

Test Graphs

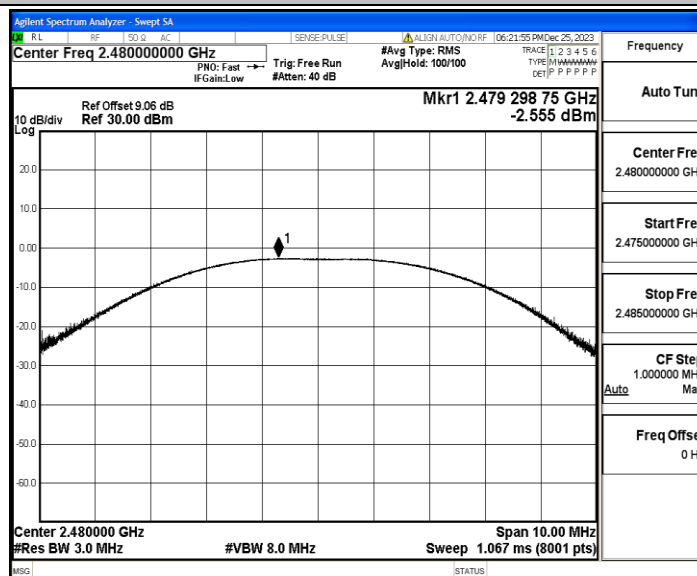
ZIGB_Ant1_2405



ZIGB_Ant1_2440



ZIGB_Ant1_2480



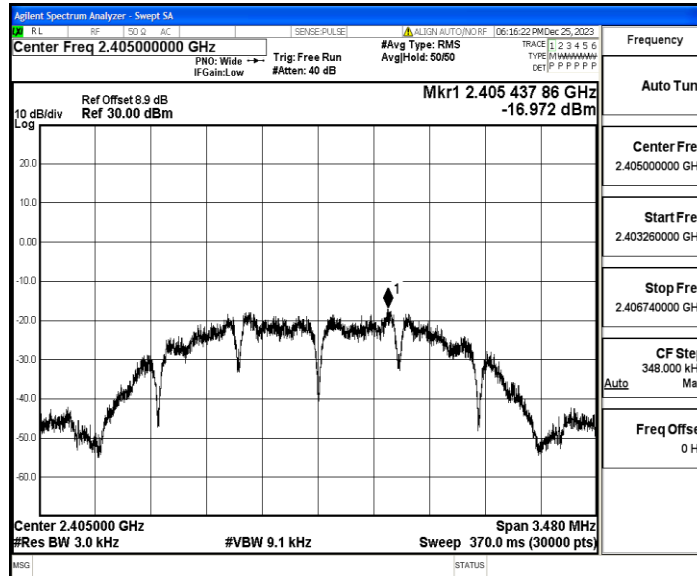
Appendix D: Maximum power spectral density

Test Result

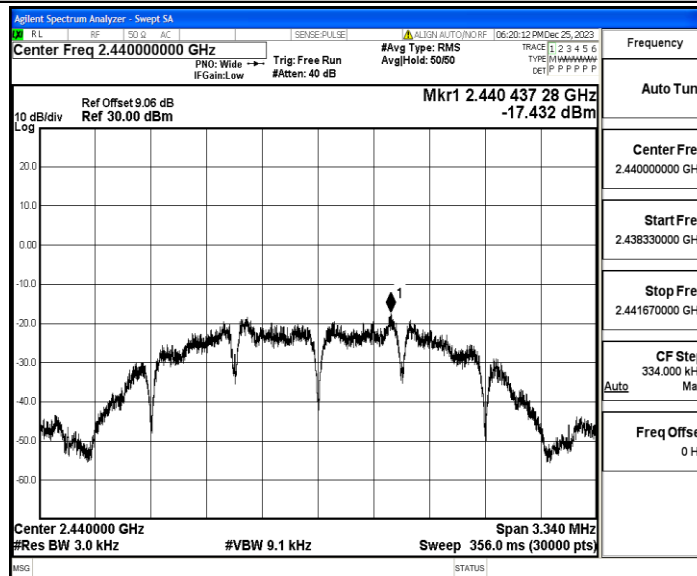
TestMode	Antenna	Freq(MHz)	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
ZIGB	Ant1	2405	-16.97	≤8.00	PASS
		2440	-17.43	≤8.00	PASS
		2480	-18.23	≤8.00	PASS

Test Graphs

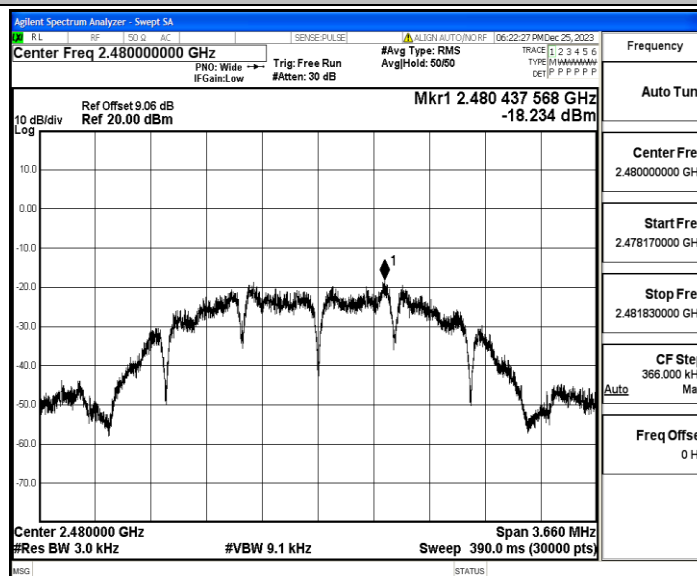
ZIGB_Ant1_2405



ZIGB_Ant1_2440



ZIGB_Ant1_2480



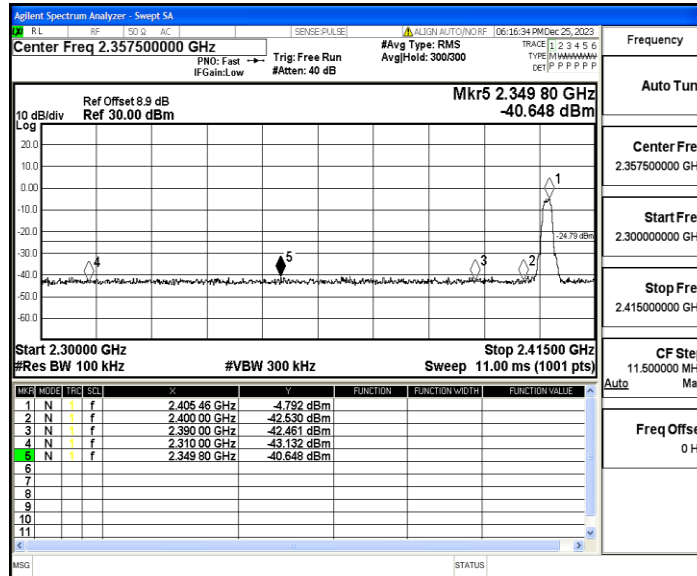
Appendix E: Band edge measurements

Test Result

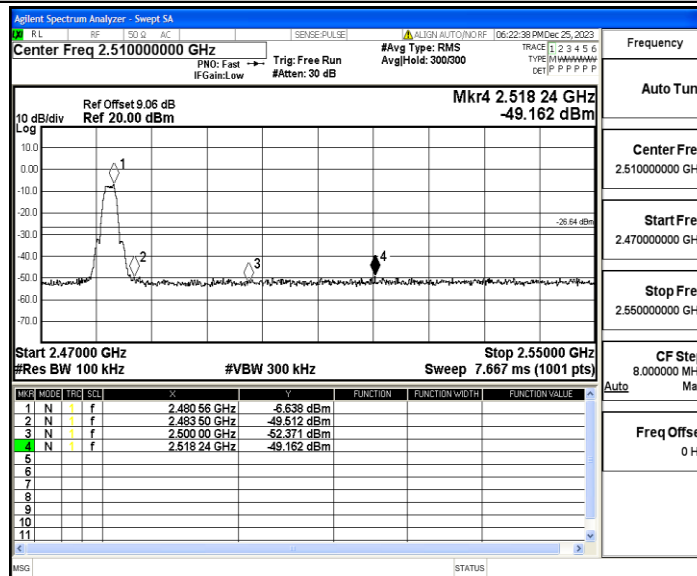
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
ZIGB	Ant1	Low	2405	-4.79	-40.65	≤-24.79	PASS
		High	2480	-6.64	-49.16	≤-26.64	PASS

Test Graphs

ZIGB_Ant1_Low_2405



ZIGB_Ant1_High_2480



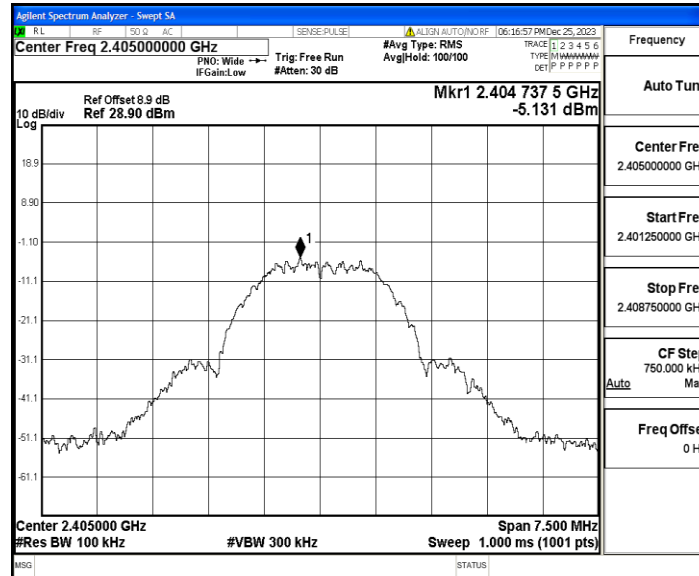
Appendix F: Conducted Spurious Emission

Test Result

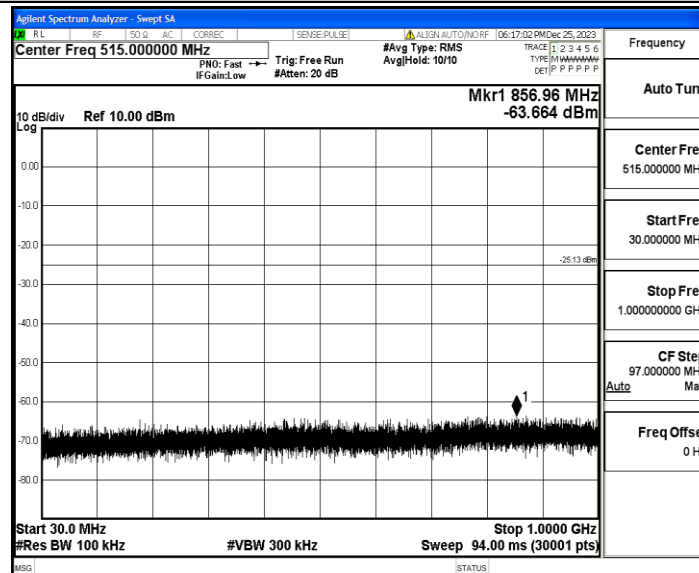
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
ZIGB	Ant1	2405	Reference	-5.13	-5.13	---	PASS
			30~1000	-5.13	-63.66	≤-25.13	PASS
			1000~26500	-5.13	-49.52	≤-25.13	PASS
		2440	Reference	-6.45	-6.45	---	PASS
			30~1000	-6.45	-62.51	≤-26.45	PASS
			1000~26500	-6.45	-49.77	≤-26.45	PASS
		2480	Reference	-7.74	-7.74	---	PASS
			30~1000	-7.74	-61.28	≤-27.74	PASS
			1000~26500	-7.74	-49.93	≤-27.74	PASS

Test Graphs

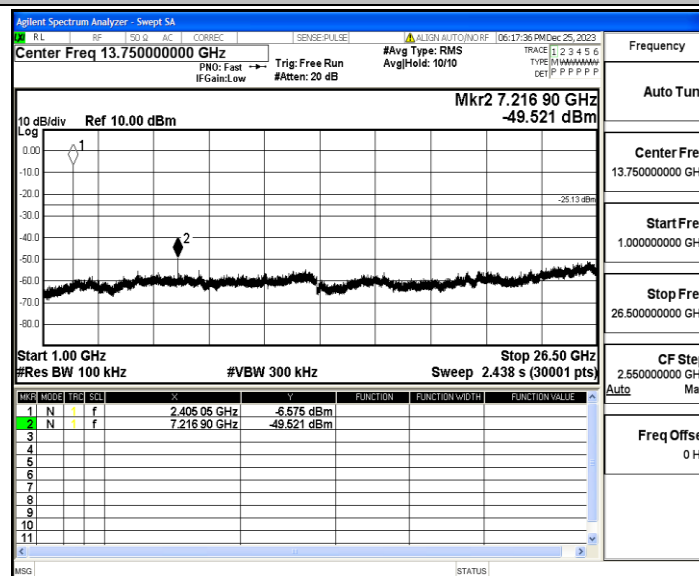
ZIGB_Ant1_2405_0~Reference



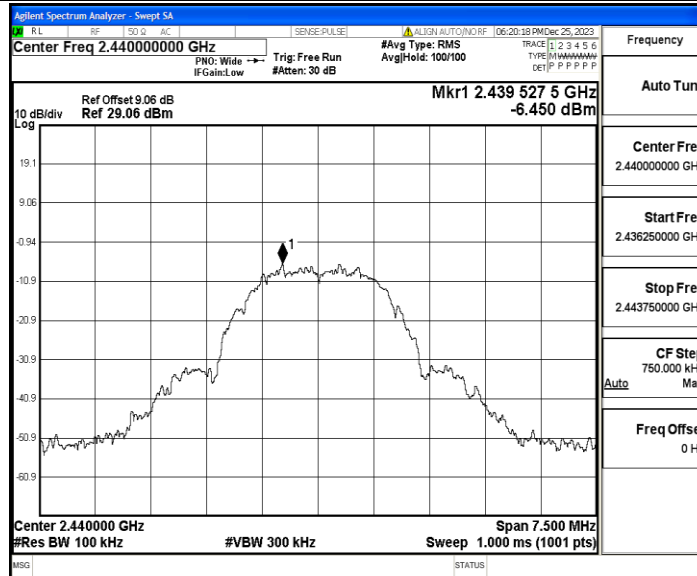
ZIGB_Ant1_2405_30~1000



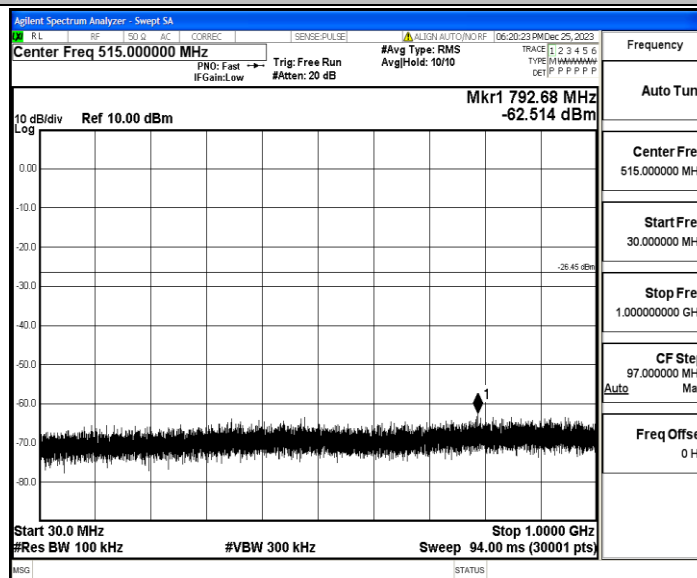
ZIGB_Ant1_2405_1000~26500



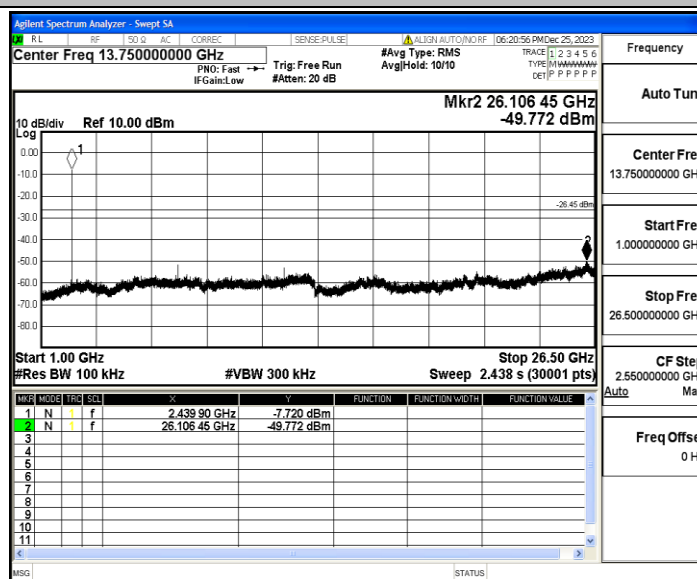
ZIGB_Ant1_2440_0~Reference



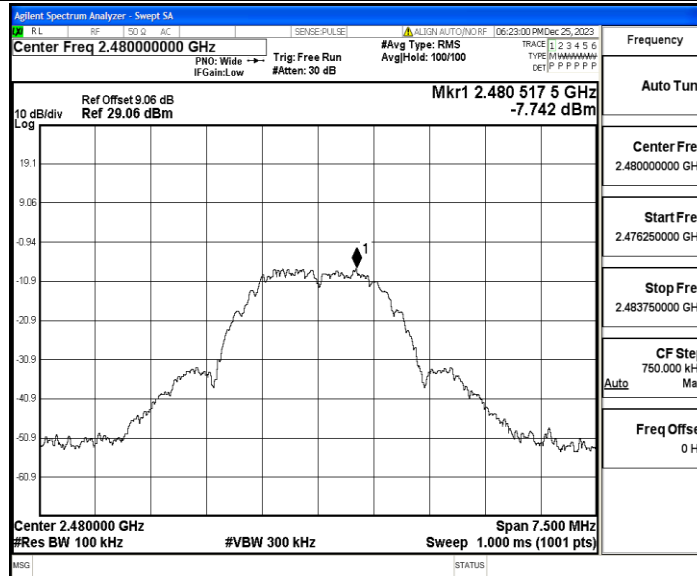
ZIGB_Ant1_2440_30~1000



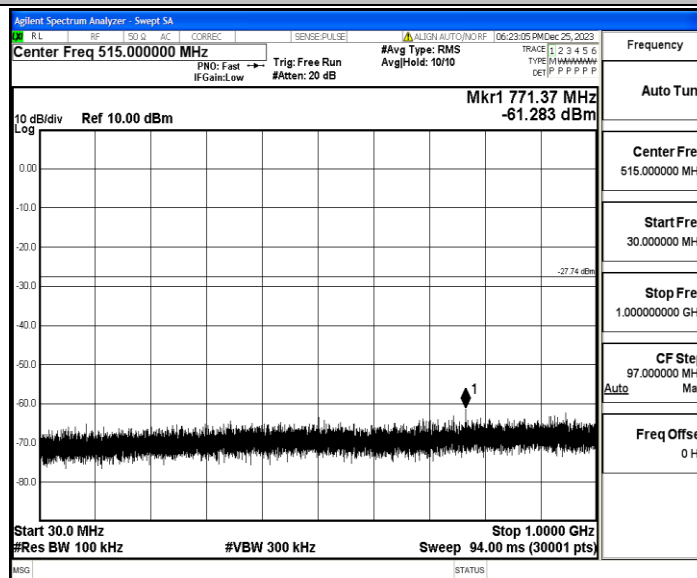
ZIGB_Ant1_2440_1000~26500



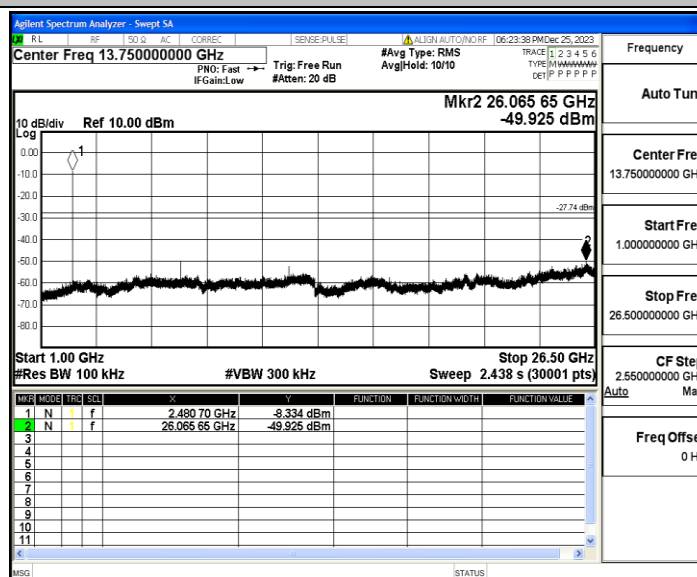
ZIGB_Ant1_2480_0~Reference



ZIGB_Ant1_2480_30~1000



ZIGB_Ant1_2480_1000~26500



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
ZIGB	Ant1	2405	100.00	100.00	100.00	---	---
		2440	100.00	100.00	100.00	---	---
		2480	100.00	100.00	100.00	---	---

Test Graphs

