

Appendix Test Data

Report No.:	18220WC30103801	Test Sample No.:	1-2-2
Start Test Date:	2023.05.30	Finish Test Date:	2023.06.06
Test Engineer:	Rick Luo	Auditor:	Edward Pan
Temperature:	25.3C°	Relative Humidity:	49%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
ZigBee	Ant1	2405	1.480	2404.356	2405.836	0.5	PASS
		2440	1.496	2439.416	2440.912	0.5	PASS
		2480	1.604	2479.324	2480.928	0.5	PASS



Test Graphs

ZigBee_Ant1_2405



ZigBee_Ant1_2440



ZigBee_Ant1_2480

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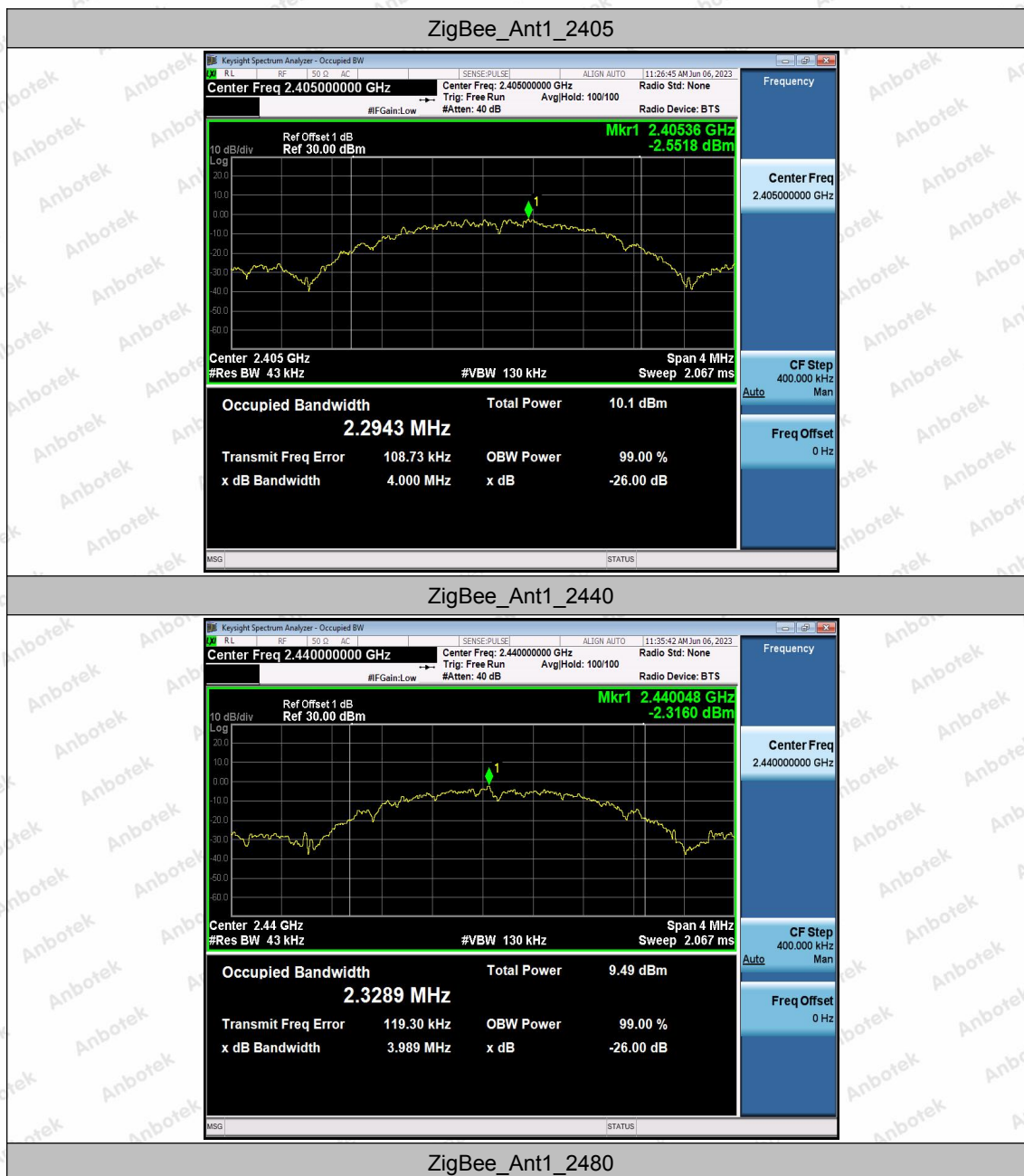
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
ZigBee	Ant1	2405	2.2943	2403.9616	2406.2559
		2440	2.3289	2438.9549	2441.2838
		2480	2.3928	2478.9190	2481.3118



Test Graphs



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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
ZigBee	Ant1	2405	3.9	≤30	PASS
		2440	3.32	≤30	PASS
		2480	2.33	≤30	PASS



Test Graphs Peak

ZigBee_Ant1_2405



ZigBee_Ant1_2440



ZigBee_Ant1_2480

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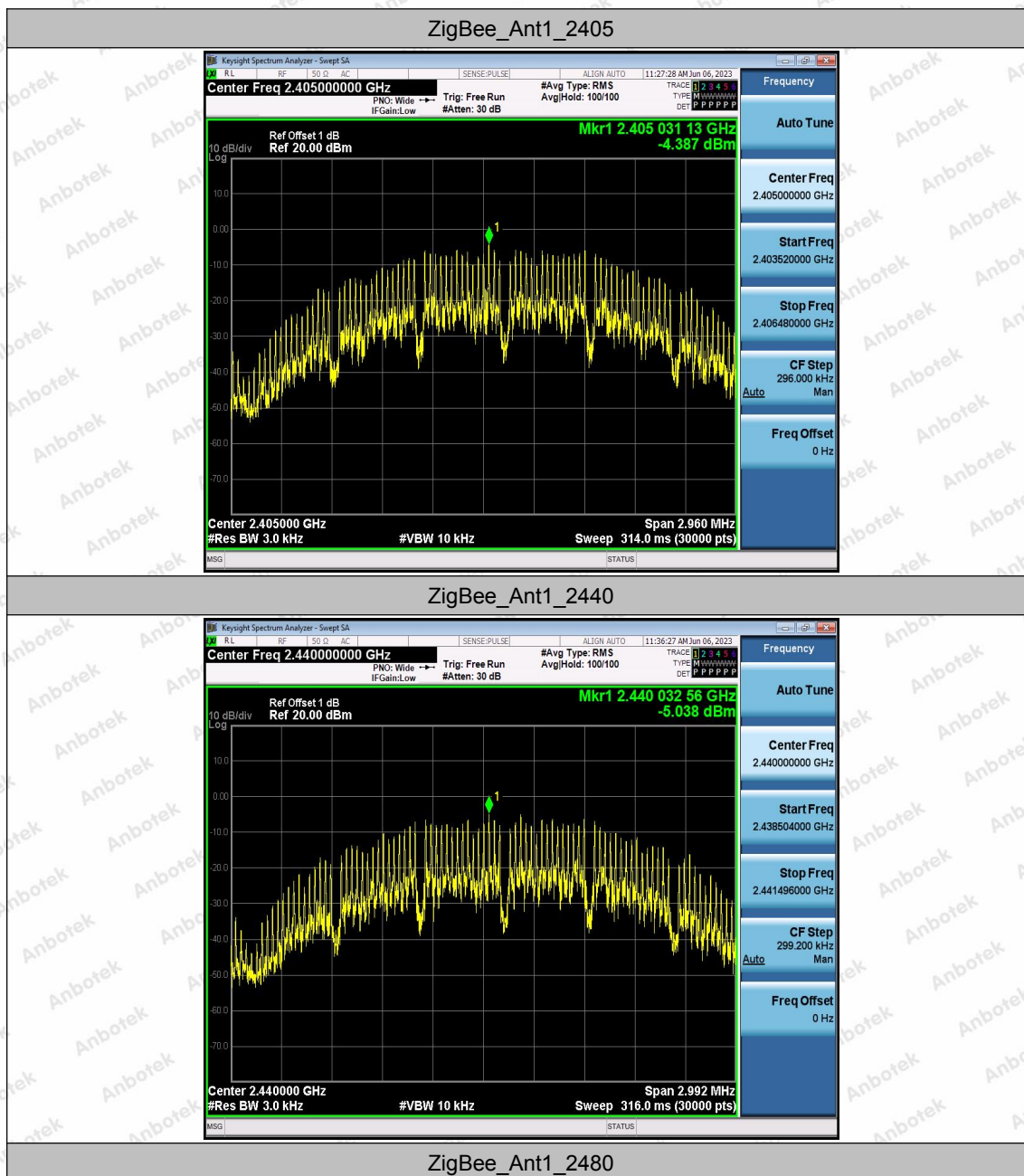
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
ZigBee	Ant1	2405	-4.39	≤8.00	PASS
		2440	-5.04	≤8.00	PASS
		2480	-7.21	≤8.00	PASS



Test Graphs



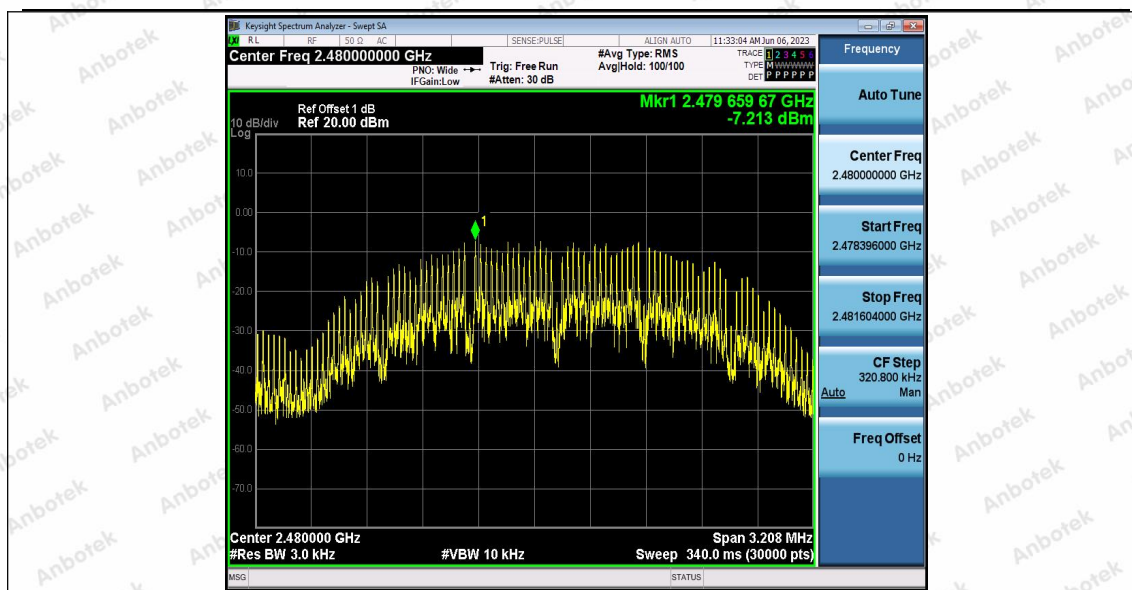
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
ZigBee	Ant1	Low	2405	0.01	-41.17	≤-19.99	PASS
		High	2480	-1.55	-36.82	≤-21.55	PASS



Test Graphs



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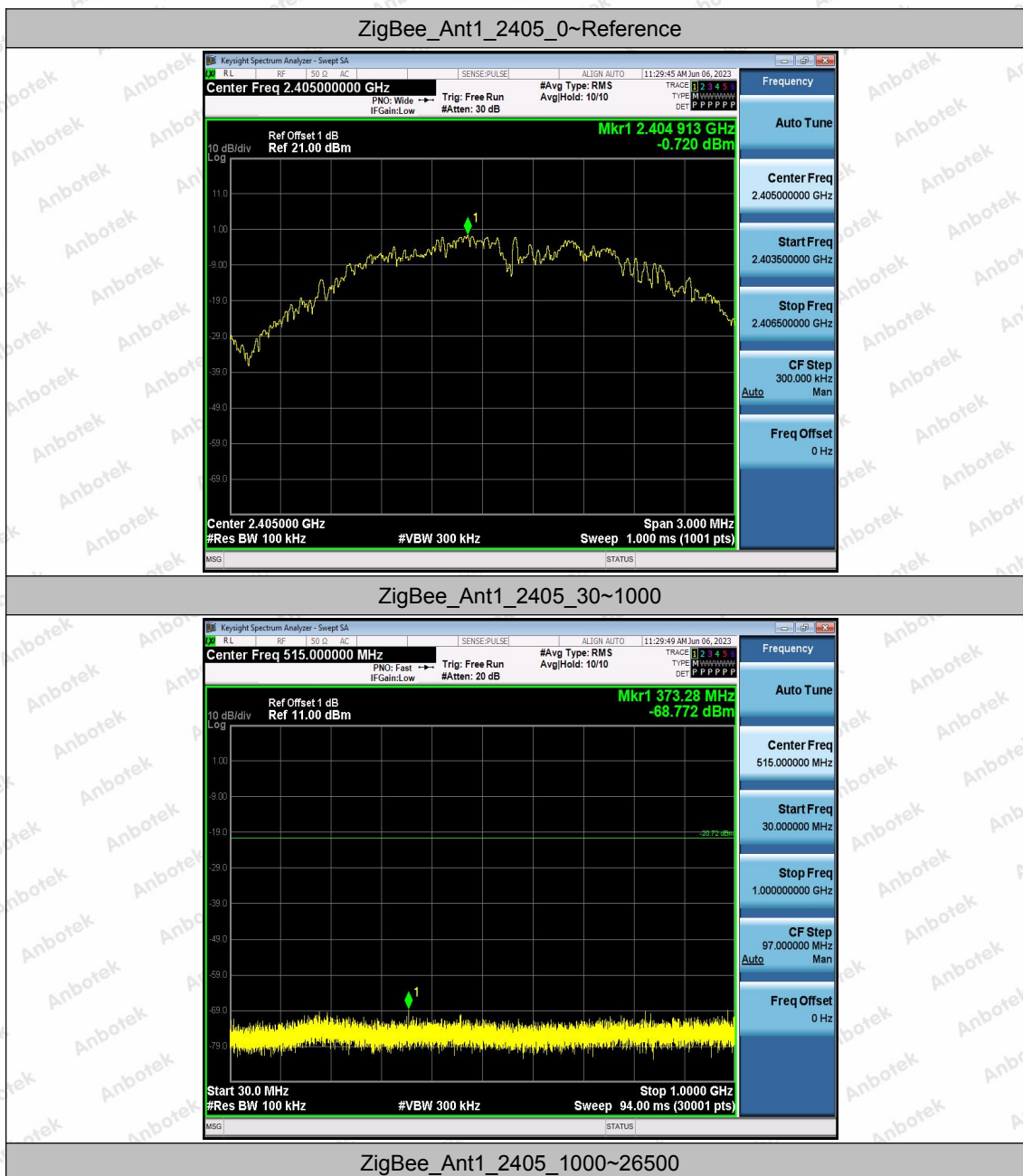
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
ZigBee	Ant1	2405	Reference	-0.72	-0.72	---	PASS
			30~1000	-0.72	-68.77	≤-20.72	PASS
			1000~26500	-0.72	-45.92	≤-20.72	PASS
		2440	Reference	-1.40	-1.40	---	PASS
			30~1000	-1.40	-69.33	≤-21.4	PASS
			1000~26500	-1.40	-48.69	≤-21.4	PASS
		2480	Reference	-1.99	-1.99	---	PASS
			30~1000	-1.99	-67.35	≤-21.99	PASS
			1000~26500	-1.99	-52.66	≤-21.99	PASS



Test Graphs



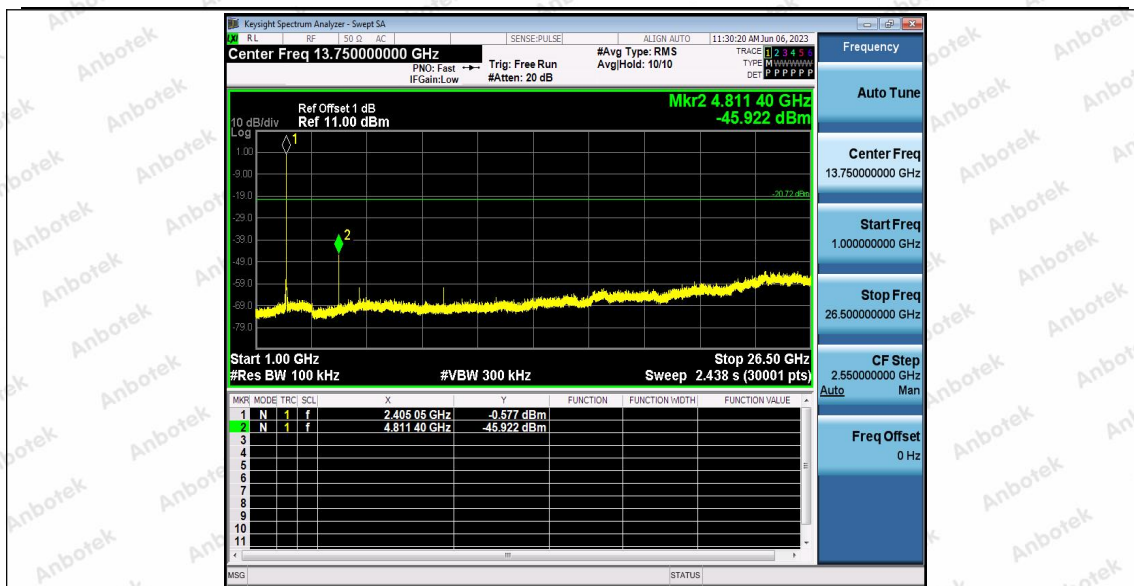
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ZigBee_Ant1_2440_0~Reference



ZigBee_Ant1_2440_30~1000

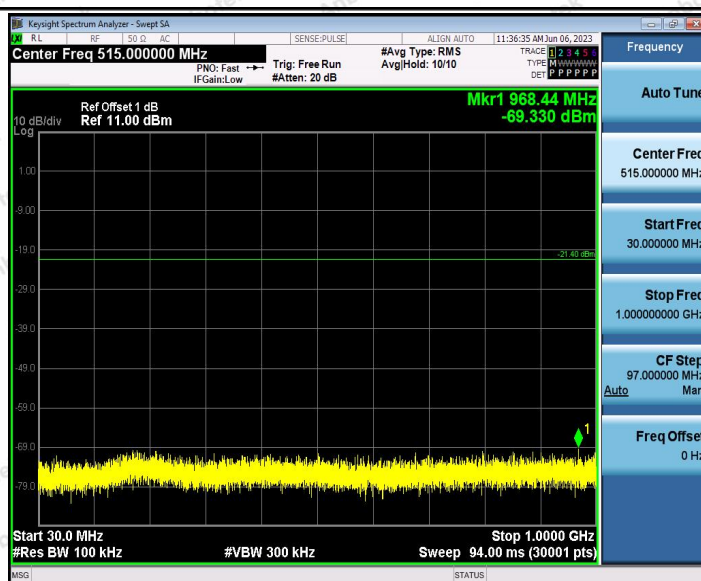
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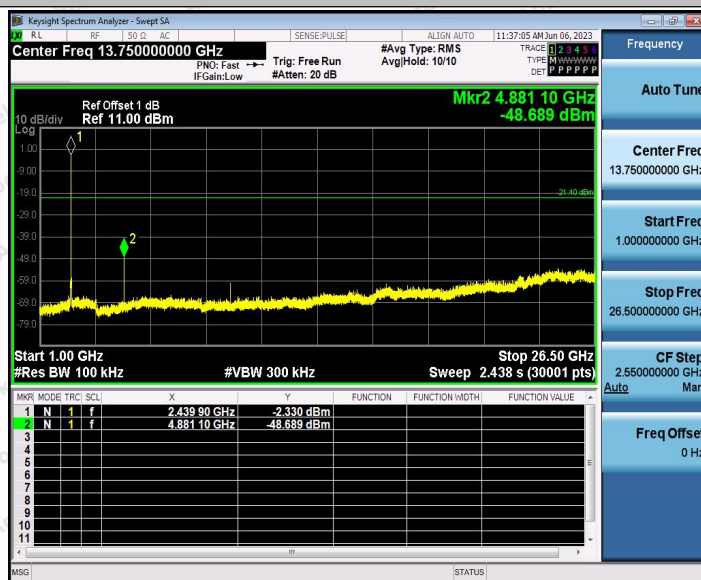


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ZigBee_Ant1_2440_1000~26500



ZigBee_Ant1_2480_0~Reference

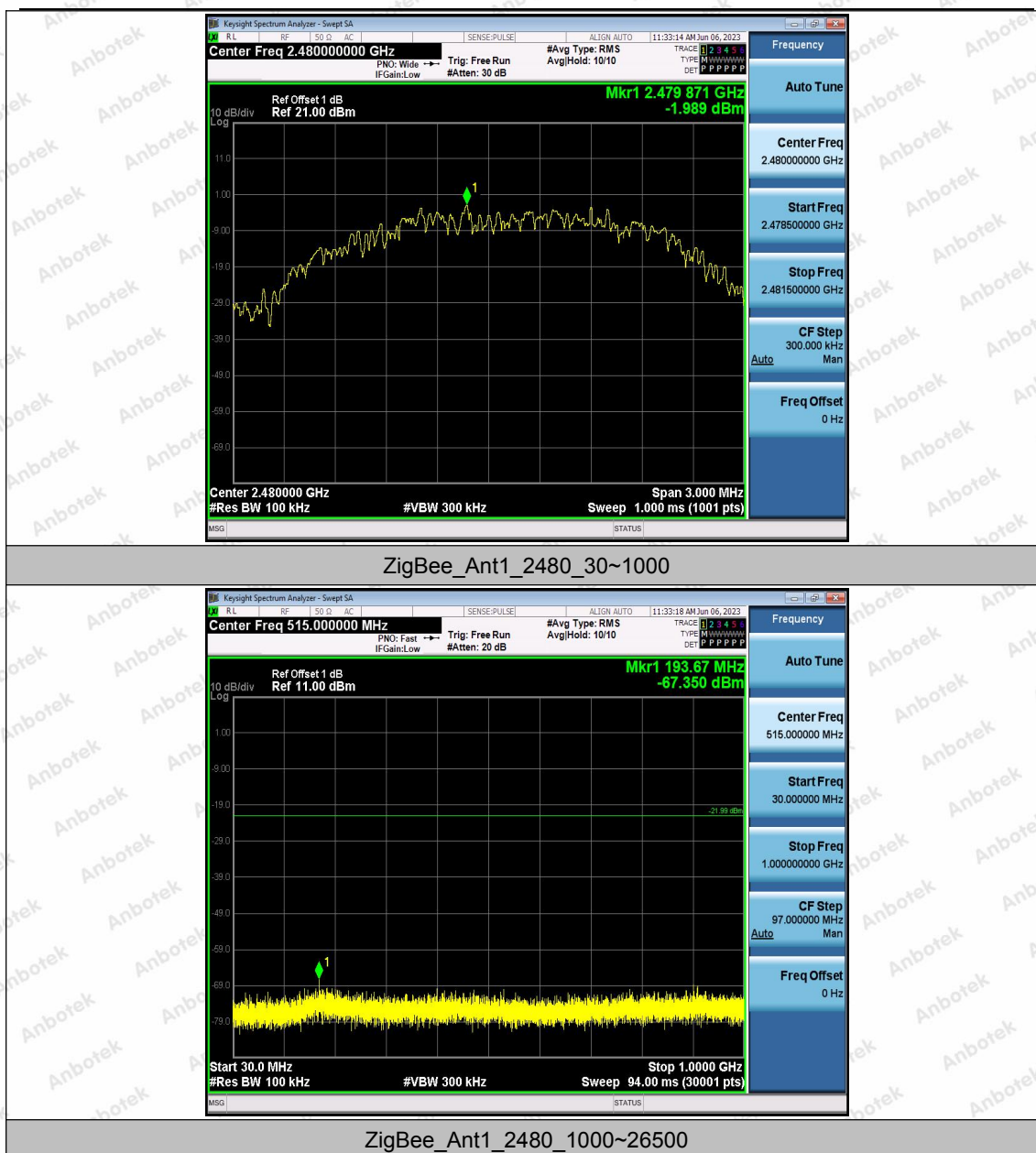
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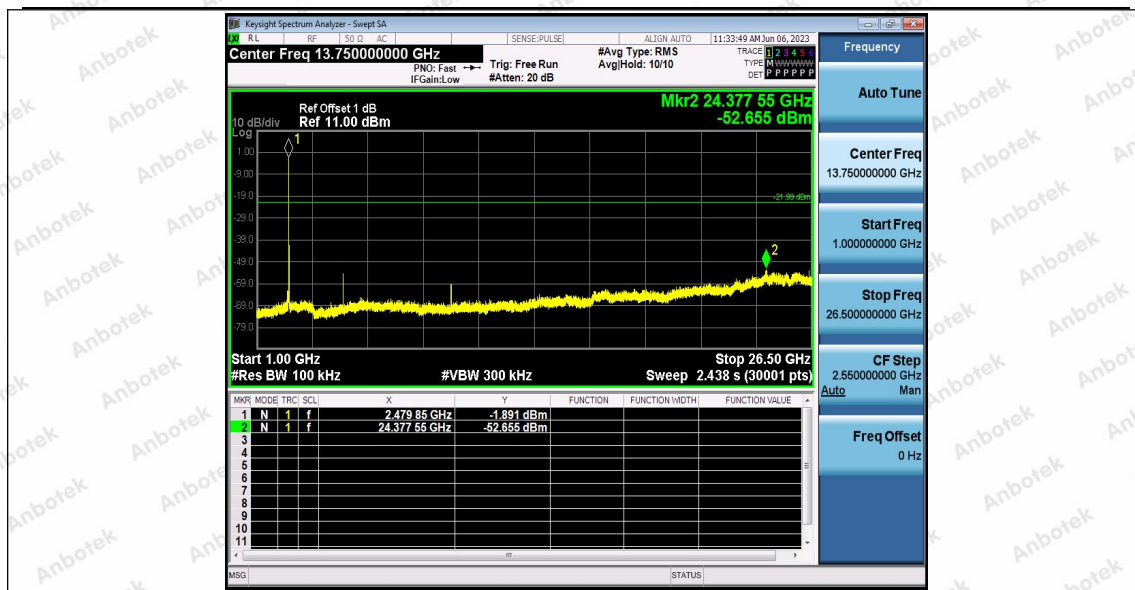
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Appendix G: Duty Cycle

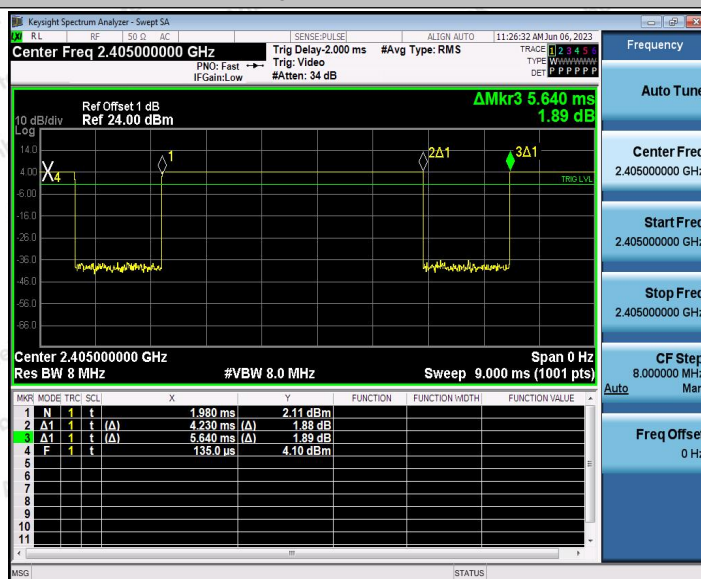
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
ZigBee	Ant1	2405	4.23	5.64	75.00	1.25
		2440	4.23	5.70	74.21	1.30
		2480	4.22	5.63	74.96	1.25

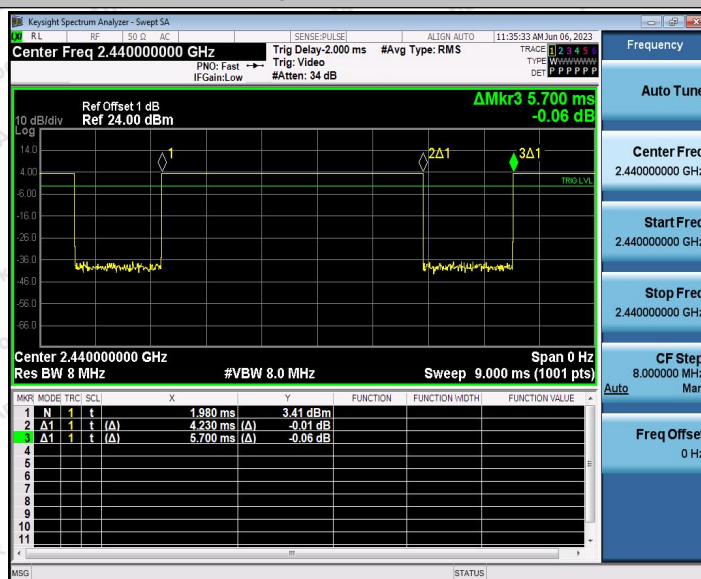


Test Graphs

ZigBee_Ant1_2405

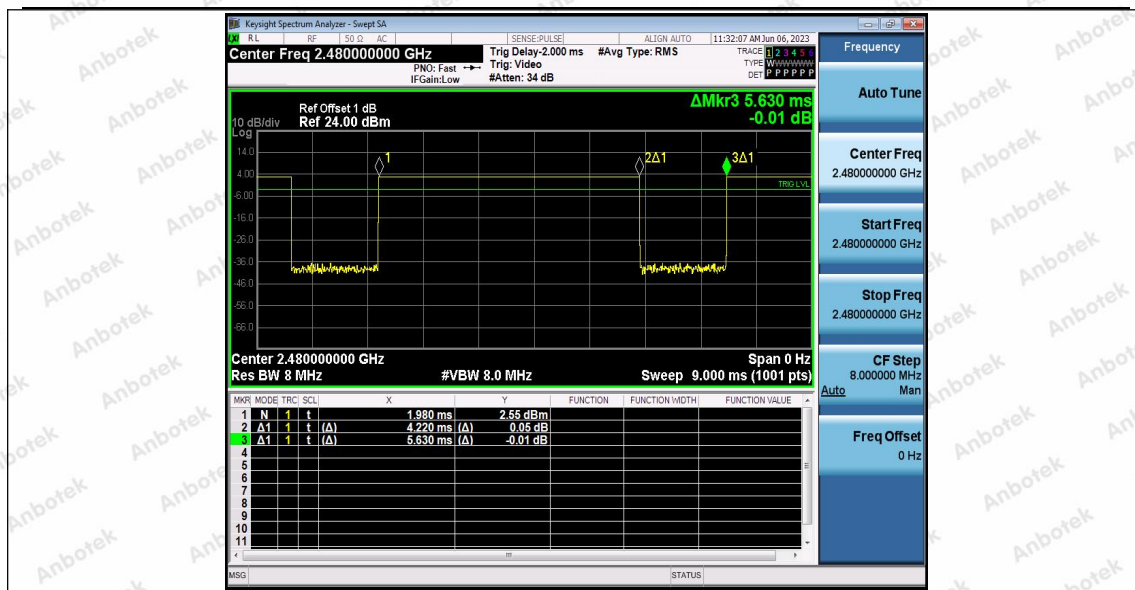


ZigBee_Ant1_2440



ZigBee_Ant1_2480





---End---

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