

Appendix Test Data

Report No.:	18220WC20278901	Test Sample No.:	1-2-2
Start Test Date:	2022.12.20	Finish Test Date:	2023.1.4
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Zigbee	Ant1	2405	1.144	2404.444	2405.588	0.5	PASS
		2440	1.020	2439.580	2440.600	0.5	PASS
		2480	1.108	2479.468	2480.576	0.5	PASS



Test Graphs

Zigbee_Ant1_2405



Zigbee_Ant1_2440



Zigbee_Ant1_2480

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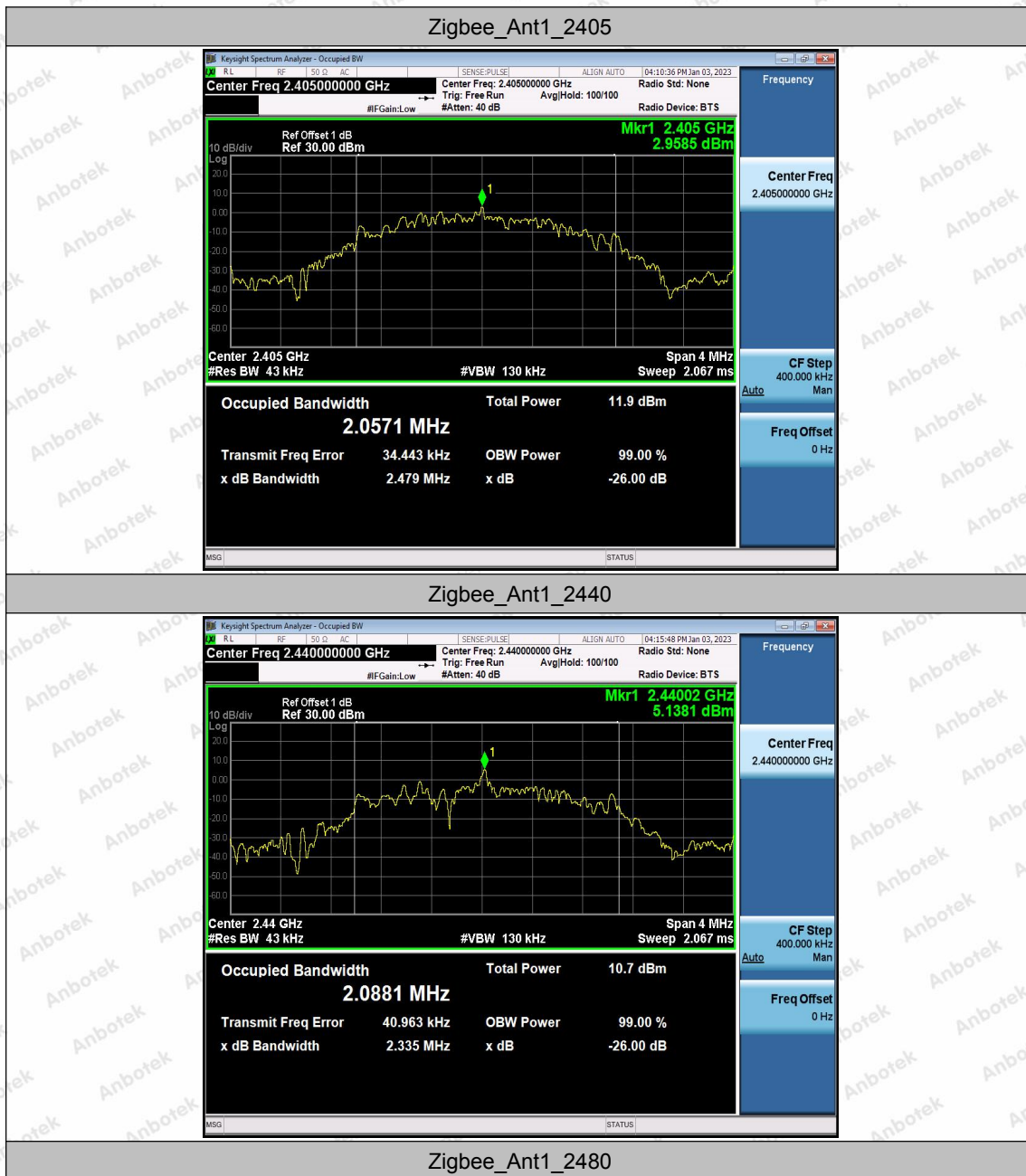
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
Zigbee	Ant1	2405	2.0571	2404.0059	2406.0630
		2440	2.0881	2438.9969	2441.0850
		2480	2.0908	2478.9962	2481.0870



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	6.94	≤30	PASS
		2440	6.44	≤30	PASS
		2480	5.67	≤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	-9.99	≤8.00	PASS
		2440	-10.85	≤8.00	PASS
		2480	-11.8	≤8.00	PASS



Test Graphs

Zigbee_Ant1_2405



Zigbee_Ant1_2440



Zigbee_Ant1_2480

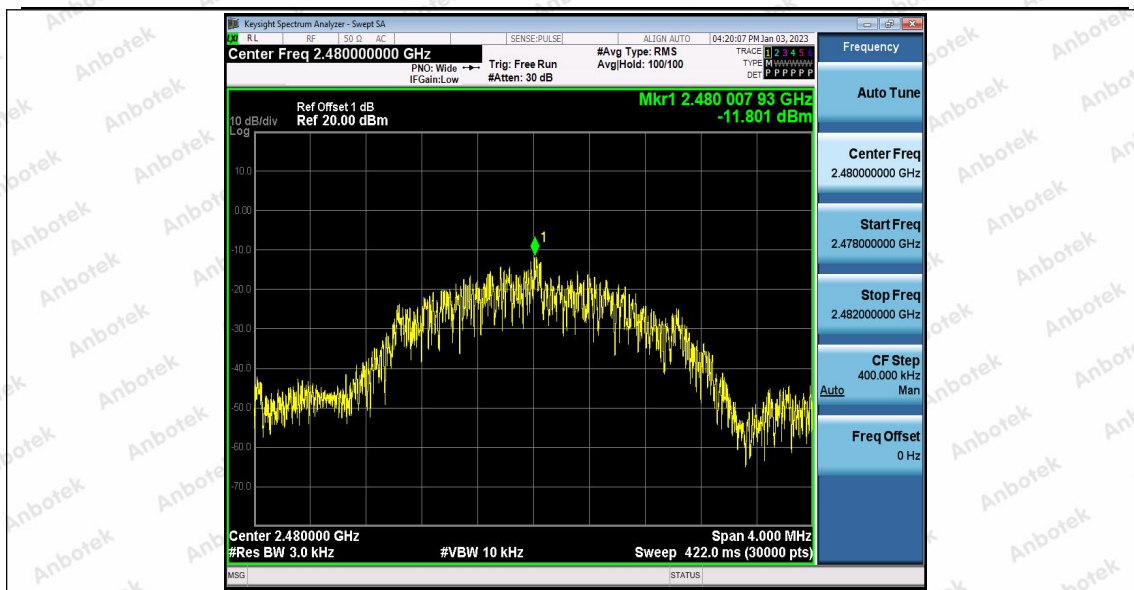
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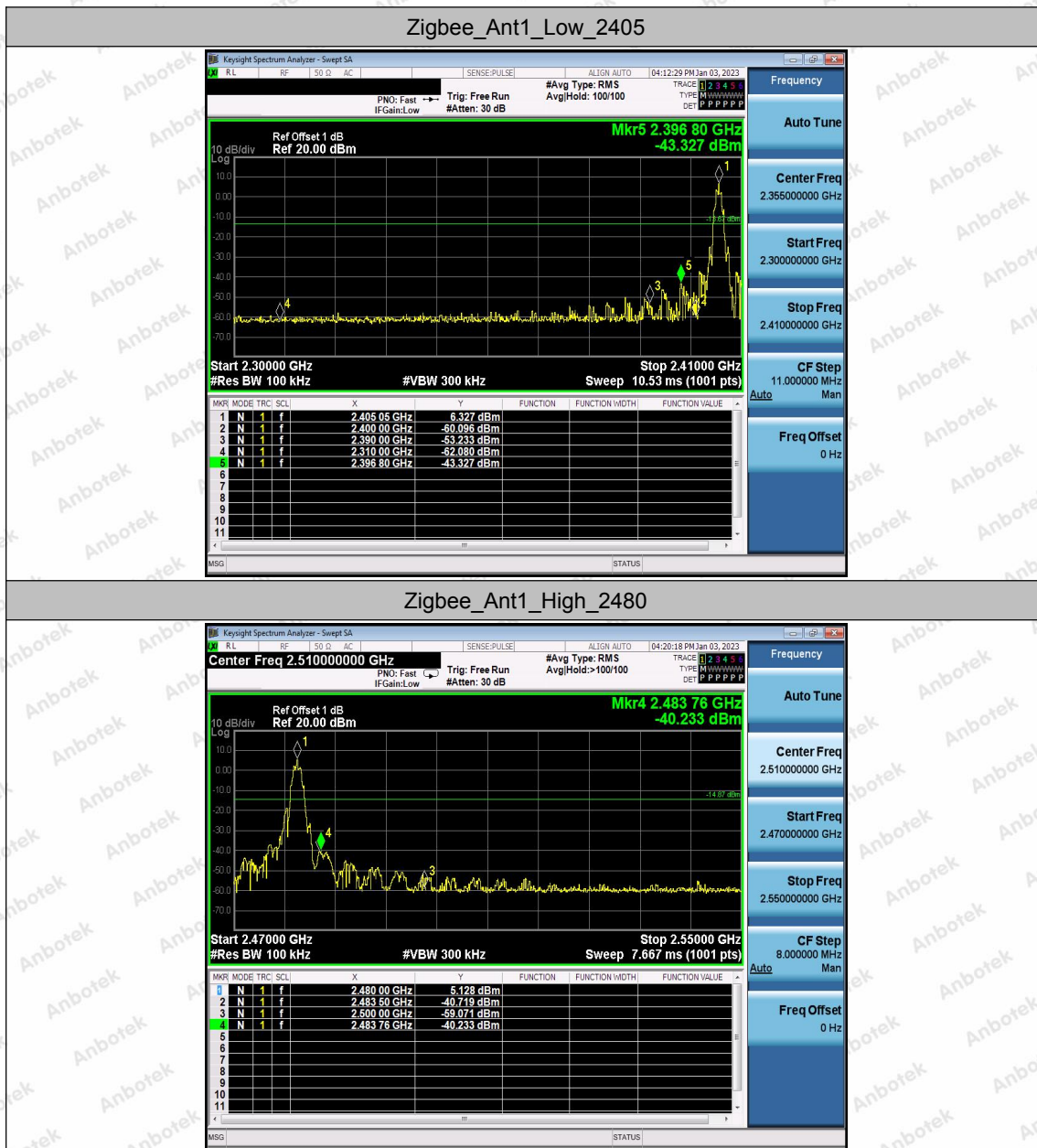
Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
Zigbee	Ant1	Low	2405	6.33	-43.33	≤-13.67	PASS
		High	2480	5.13	-40.56	≤-14.87	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	6.39	6.39	---	PASS
			30~1000	6.39	-63.95	≤-13.61	PASS
			1000~26500	6.39	-38.39	≤-13.61	PASS
		2440	Reference	5.79	5.79	---	PASS
			30~1000	5.79	-67.96	≤-14.21	PASS
			1000~26500	5.79	-40.96	≤-14.21	PASS
		2480	Reference	5.16	5.16	---	PASS
			30~1000	5.16	-66.53	≤-14.84	PASS
			1000~26500	5.16	-52.16	≤-14.84	PASS

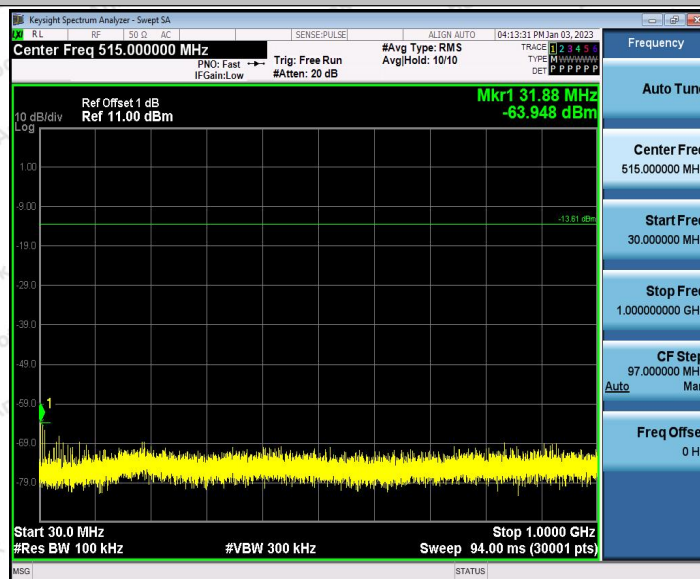


Test Graphs

Zigbee_Ant1_2405_0~Reference



Zigbee_Ant1_2405_30~1000



Zigbee_Ant1_2405_1000~26500

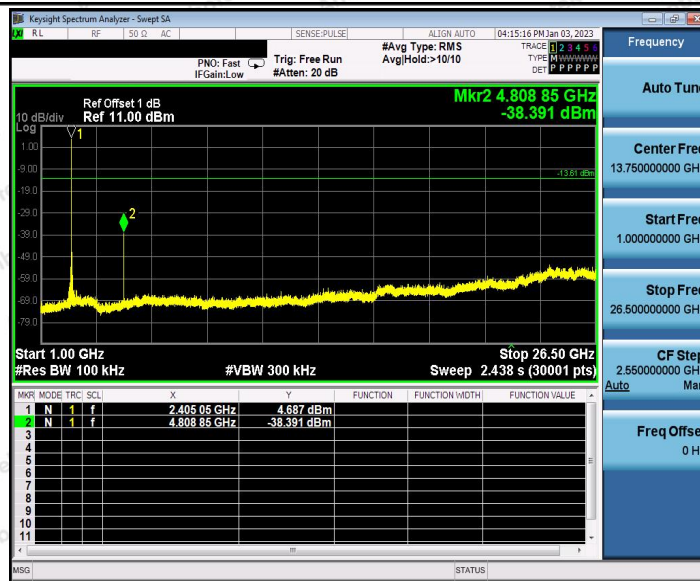
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Zigbee_Ant1_2440_0~Reference



Zigbee_Ant1_2440_30~1000

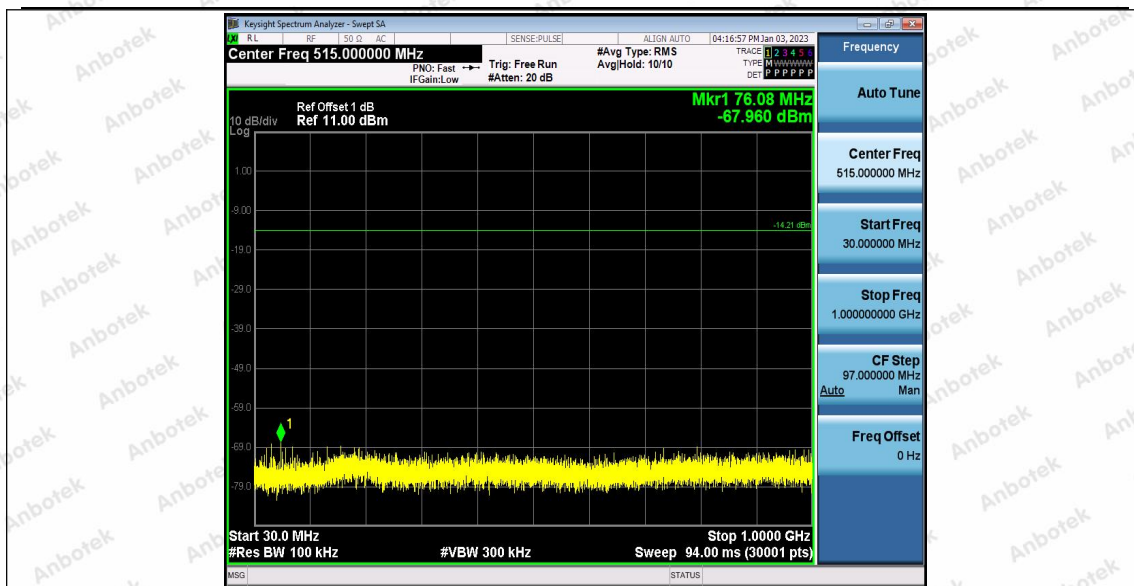
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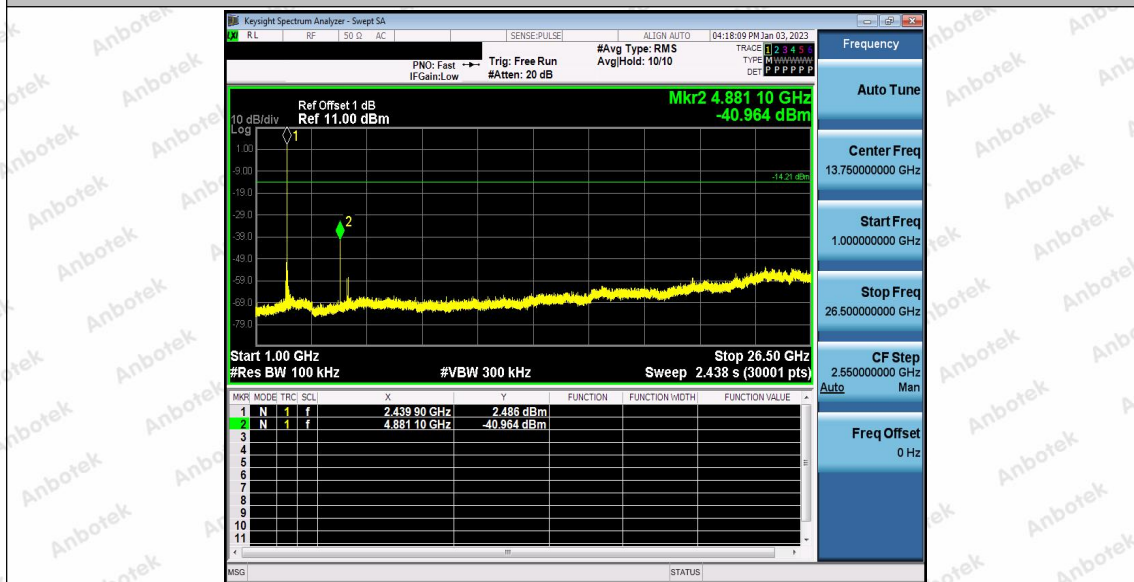


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Zigbee_Ant1_2440_1000~26500

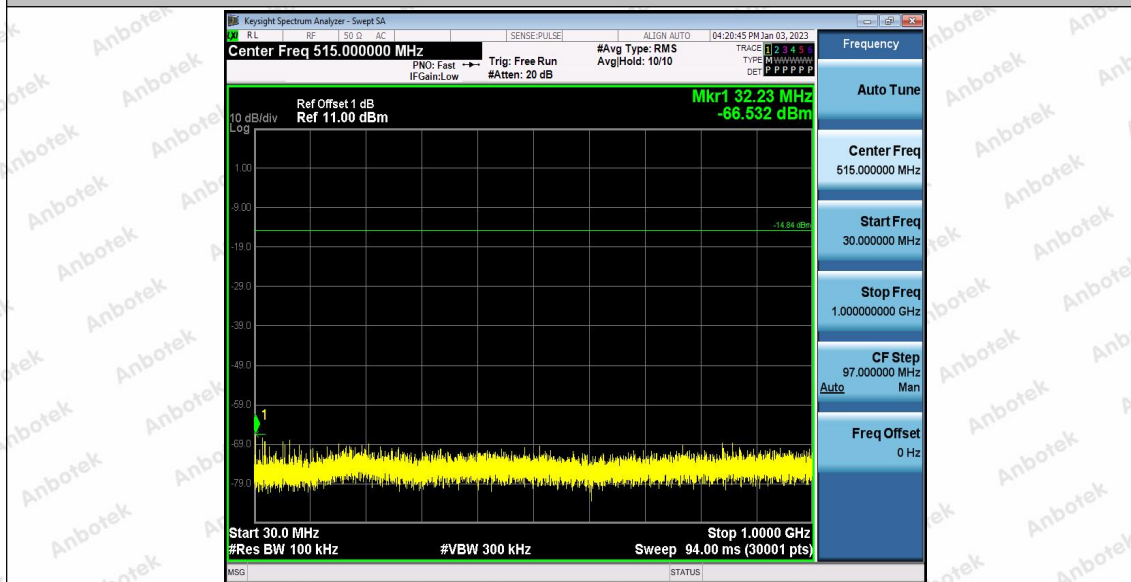


Zigbee_Ant1_2480_0~Reference





Zigbee_Ant1_2480_30~1000



Zigbee_Ant1_2480_1000~26500

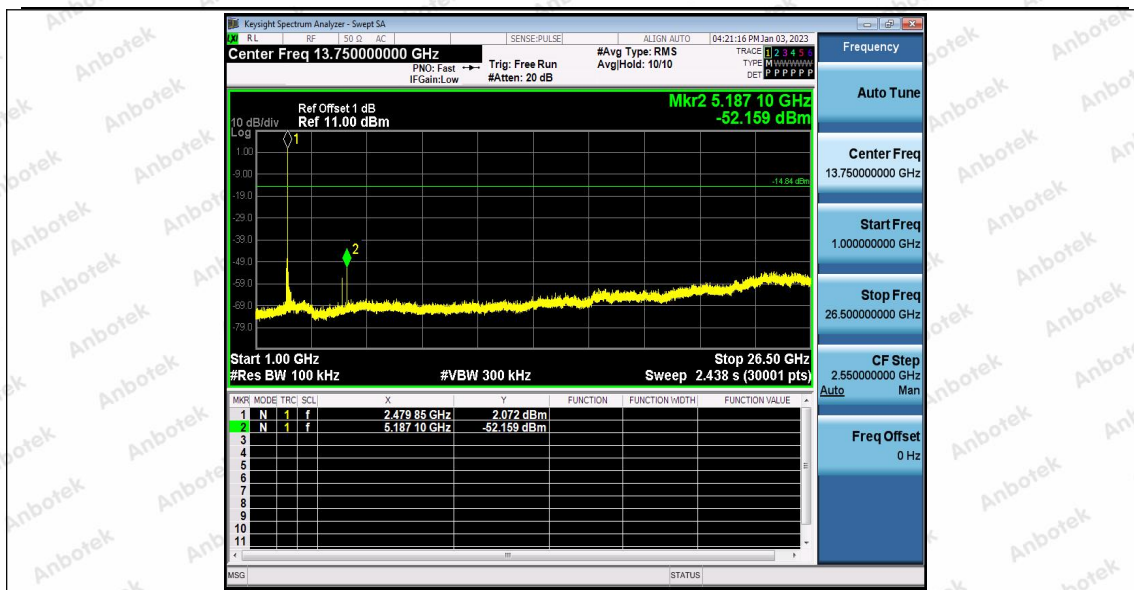
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Appendix G: Duty Cycle

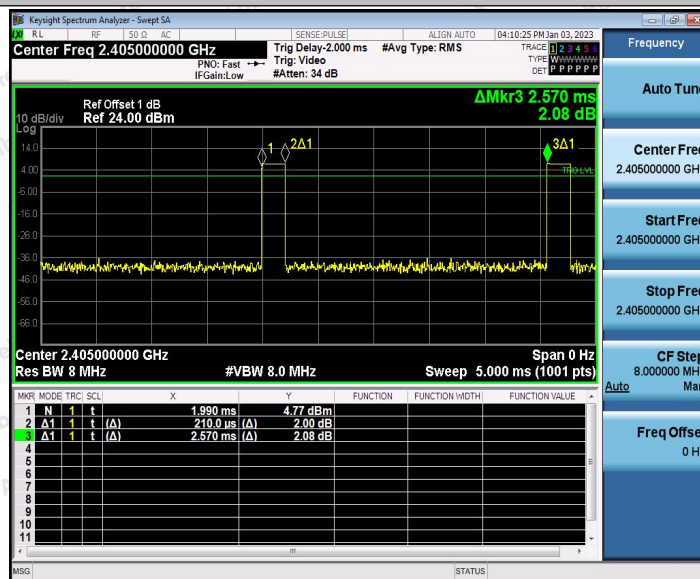
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
Zigbee	Ant1	2405	0.21	2.57	8.17	10.88
		2440	0.21	2.57	8.17	10.88
		2480	0.21	2.57	8.17	10.88

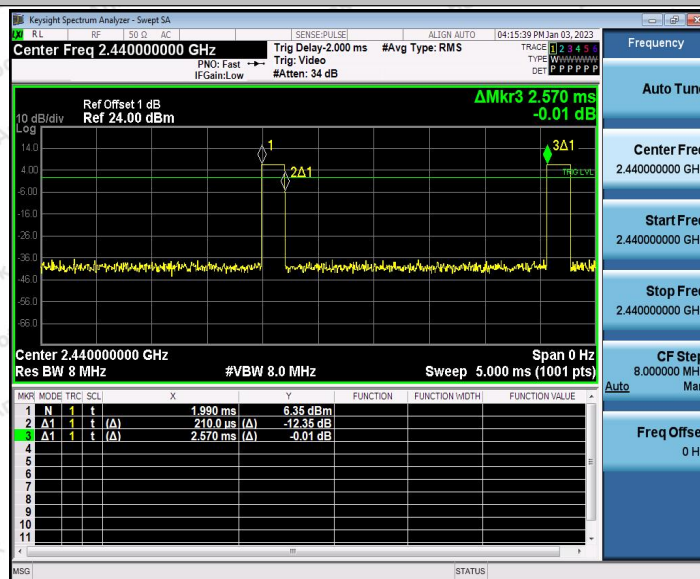


Test Graphs

Zigbee_Ant1_2405



Zigbee_Ant1_2440



Zigbee_Ant1_2480

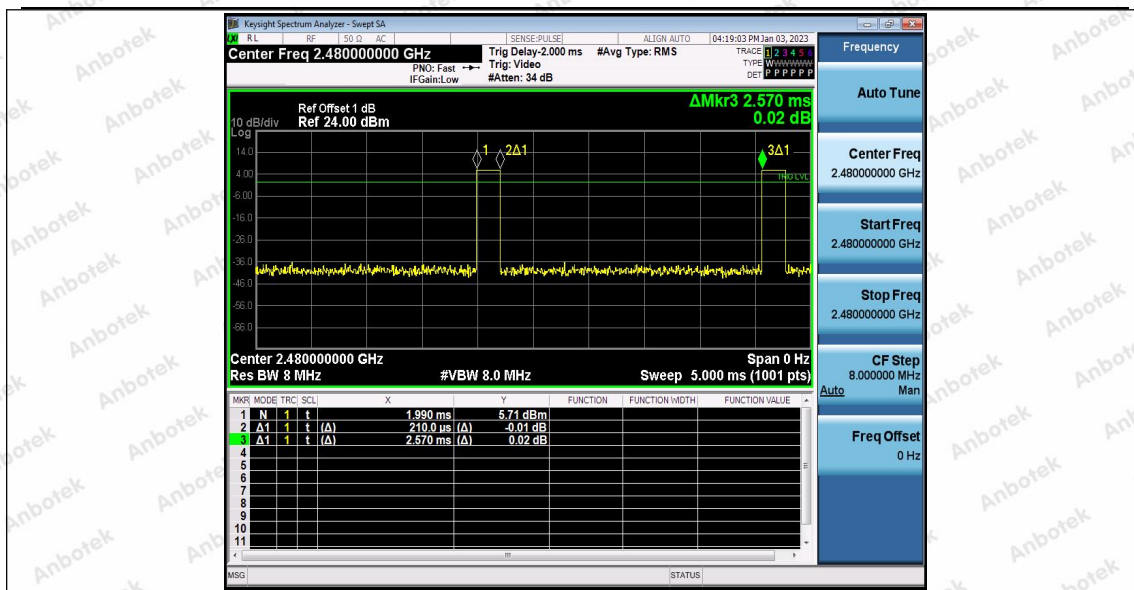
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