

Appendix Test Data

Report No.:	18220WC30153401	Test Sample No.:	1-2-2
Start Test Date:	2024.05.13	Finish Test Date:	2024.05.20
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	48%
Pressure:	101kPa		

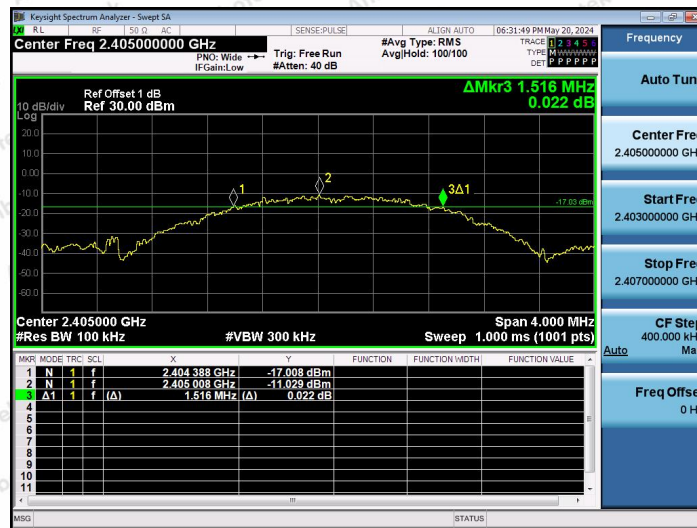
Appendix A: 6dB Bandwidth

Test Result

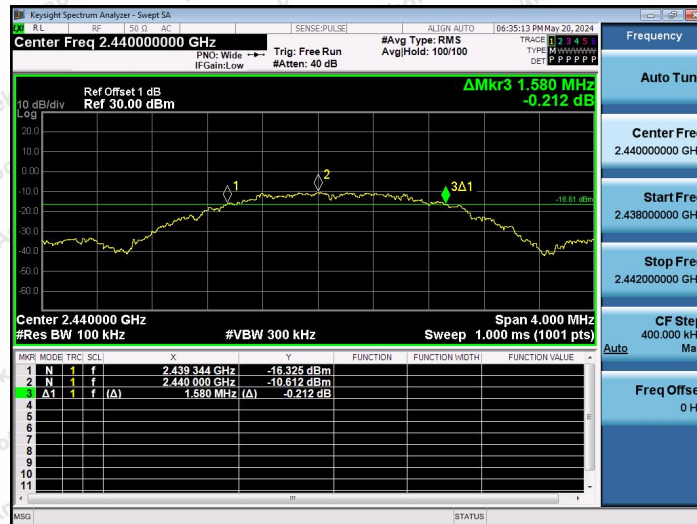
TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Zigbee	Ant1	2405	1.516	2404.388	2405.904	0.5	PASS
Zigbee	Ant1	2440	1.580	2439.344	2440.924	0.5	PASS
Zigbee	Ant1	2480	1.648	2479.316	2480.964	0.5	PASS



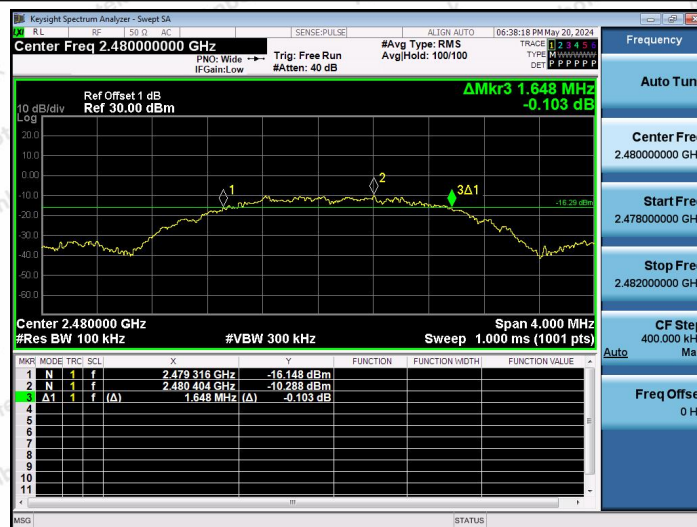
Test Graphs



Zigbee-Ant1-2405-PASS



Zigbee-Ant1-2440-PASS



Zigbee-Ant1-2480-PASS

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Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Zigbee	Ant1	2405	2.2732	2403.9680	2406.2412	---	---
Zigbee	Ant1	2440	2.2707	2438.9652	2441.2359	---	---
Zigbee	Ant1	2480	2.3499	2478.9283	2481.2782	---	---

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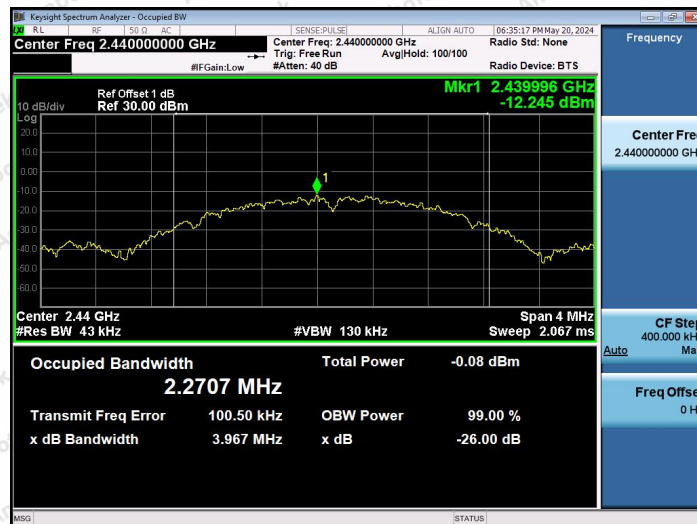
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Test Graphs



Zigbee-Ant1-2405



Zigbee-Ant1-2440



Zigbee-Ant1-2480

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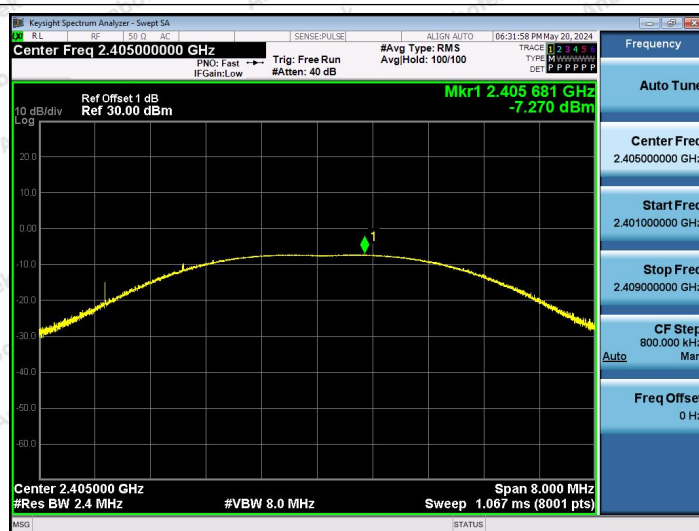


Appendix C: Maximum conducted output power

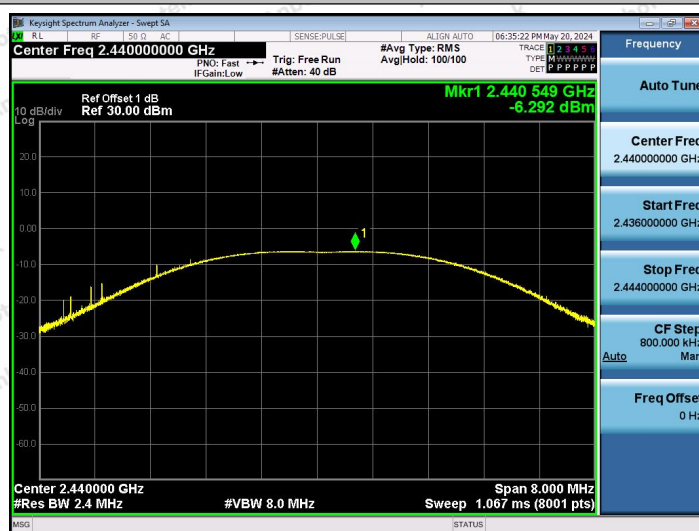
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
Zigbee	Ant1	2405	-7.27	≤30	PASS
Zigbee	Ant1	2440	-6.29	≤30	PASS
Zigbee	Ant1	2480	-6.24	≤30	PASS

Test Graphs Peak

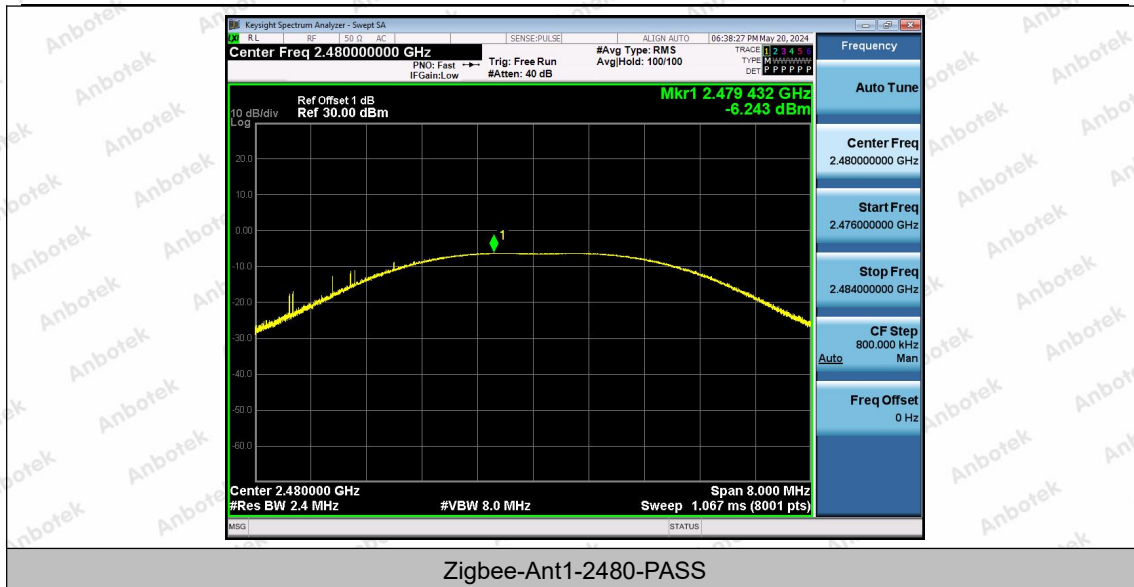


Zigbee-Ant1-2405-PASS



Zigbee-Ant1-2440-PASS



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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	-18.64	≤8.00	PASS
Zigbee	Ant1	2440	-18.09	≤8.00	PASS
Zigbee	Ant1	2480	-18.30	≤8.00	PASS



Test Graphs



Zigbee-Ant1-2405-PASS



Zigbee-Ant1-2440-PASS



Zigbee-Ant1-2480-PASS

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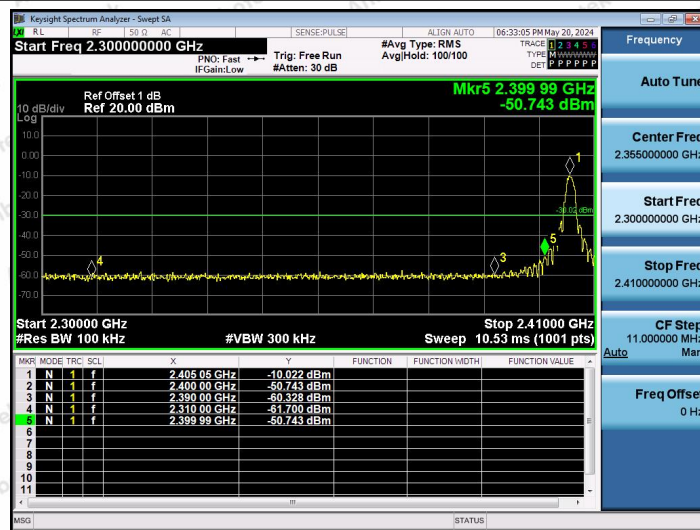
Appendix E: Band edge measurements

Test Result

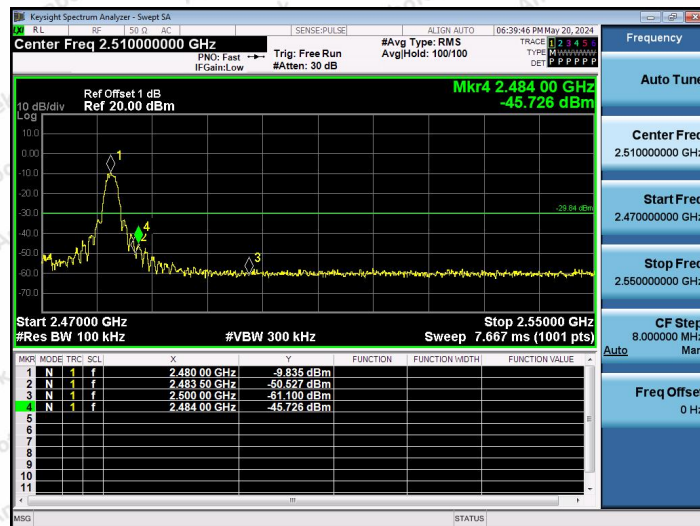
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
Zigbee	Ant1	Low	2405	-10.02	-50.74	≤-30.02	PASS
Zigbee	Ant1	High	2480	-9.84	-45.73	≤-29.84	PASS



Test Graphs



Zigbee-Ant1-2405-PASS



Zigbee-Ant1-2480-PASS

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Appendix F: Conducted Spurious Emission

Test Result

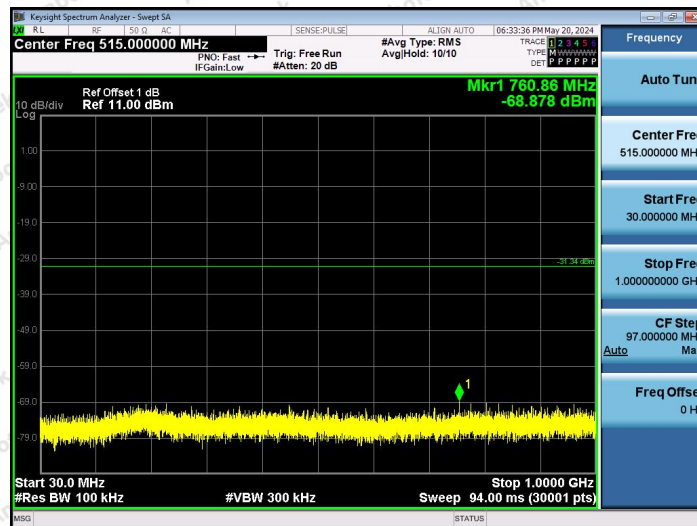
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
Zigbee	Ant1	2405	0~Reference	-11.34	-11.34	---	PASS
Zigbee	Ant1	2405	30~1000	-11.34	-68.88	≤-31.34	PASS
Zigbee	Ant1	2405	1000~26500	-11.34	-53.91	≤-31.34	PASS
Zigbee	Ant1	2440	0~Reference	-10.80	-10.80	---	PASS
Zigbee	Ant1	2440	30~1000	-10.80	-68.64	≤-30.8	PASS
Zigbee	Ant1	2440	1000~26500	-10.80	-54	≤-30.8	PASS
Zigbee	Ant1	2480	0~Reference	-10.54	-10.54	---	PASS
Zigbee	Ant1	2480	30~1000	-10.54	-41.03	≤-30.54	PASS
Zigbee	Ant1	2480	1000~26500	-10.54	-53.41	≤-30.54	PASS



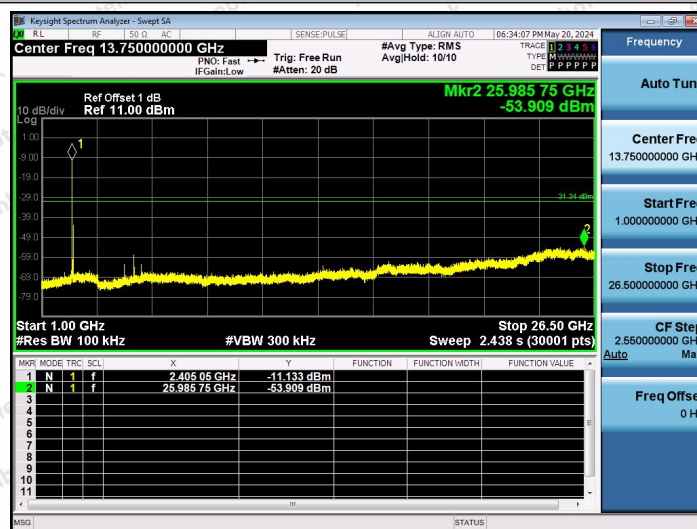
Test Graphs



Zigbee-Ant1-2405-0~Reference-PASS



Zigbee-Ant1-2405-30~1000-PASS



Zigbee-Ant1-2405-1000~26500-PASS

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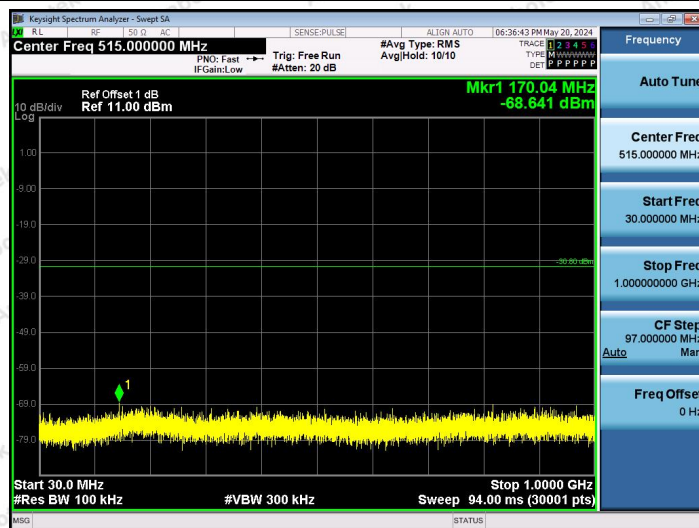


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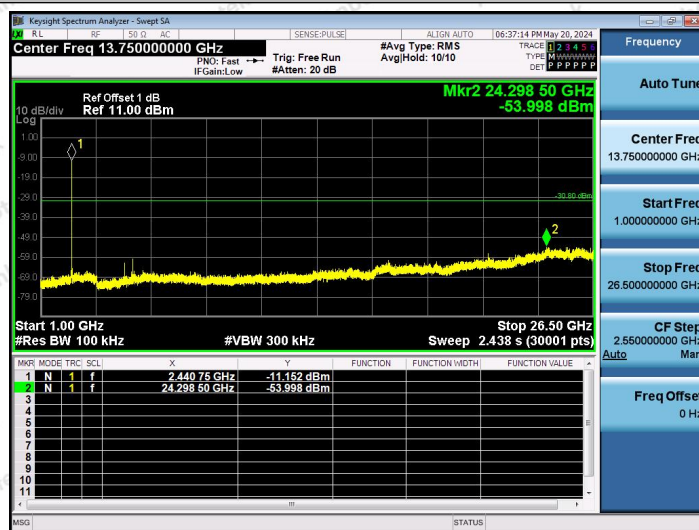




Zigbee-Ant1-2440-0~Reference-PASS



Zigbee-Ant1-2440-30~1000-PASS



Zigbee-Ant1-2440-1000~26500-PASS

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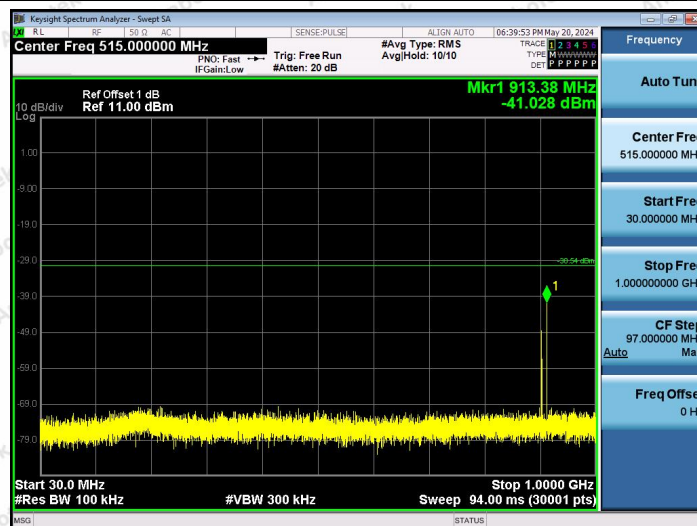


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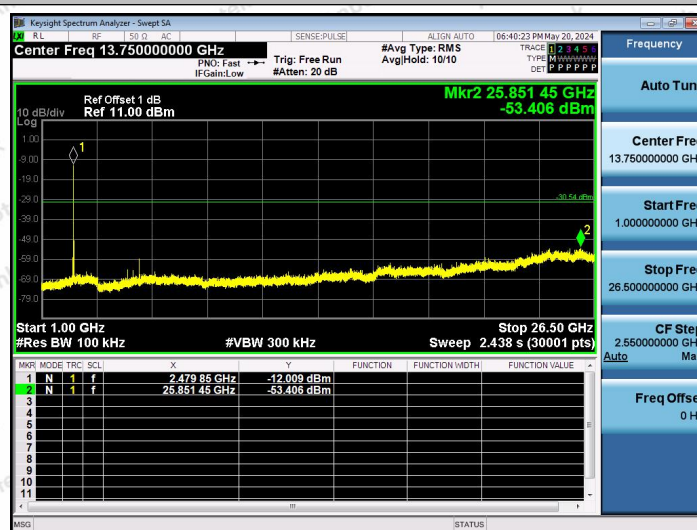




Zigbee-Ant1-2480-0~Reference-PASS



Zigbee-Ant1-2480-30~1000-PASS



Zigbee-Ant1-2480-1000~26500-PASS

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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	4.06	4.75	85.47	0.68
Zigbee	Ant1	2440	4.06	4.77	85.12	0.70
Zigbee	Ant1	2480	4.06	4.77	85.12	0.70



Test Graphs



---End---

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