

## Appendix Test Data

Report No.:	18220WC40054701	Test Sample No.:	1-2-2
Start Test Date:	2024.04.10	Finish Test Date:	2024.04.18
Test Engineer:	<i>Foker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.5°C	Relative Humidity:	47%
Pressure:	101kPa		

## Appendix A: 6dB Bandwidth

### Test Result

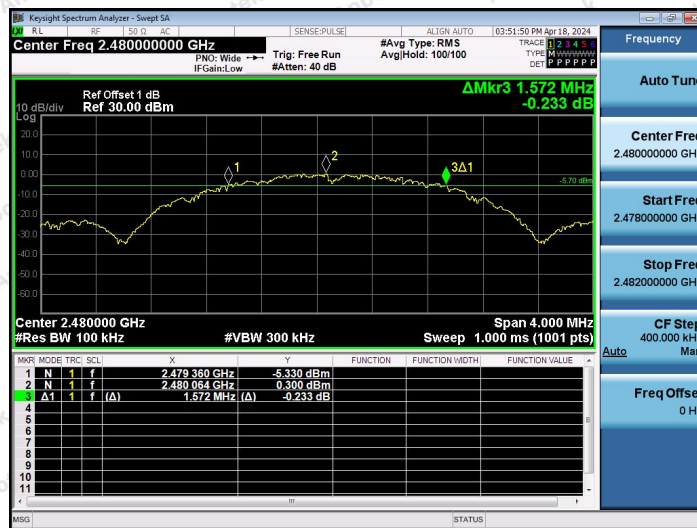
TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Zigbee	Ant1	2405	1.564	2404.352	2405.916	0.5	PASS
Zigbee	Ant1	2440	1.556	2439.336	2440.892	0.5	PASS
Zigbee	Ant1	2480	1.572	2479.360	2480.932	0.5	PASS

### Test Graphs





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	2.2981	2403.9319	2406.2300	---	---
Zigbee	Ant1	2440	2.2911	2438.9356	2441.2267	---	---
Zigbee	Ant1	2480	2.2980	2478.9390	2481.2370	---	---

### Test Graphs

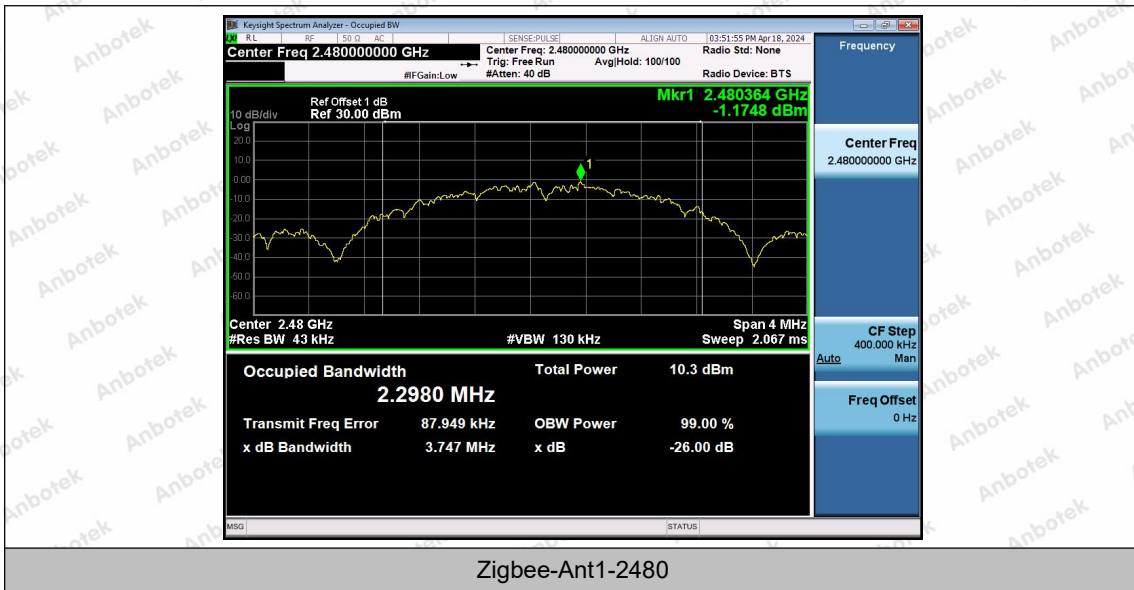


Zigbee-Ant1-2405



Zigbee-Ant1-2440





Zigbee-Ant1-2480

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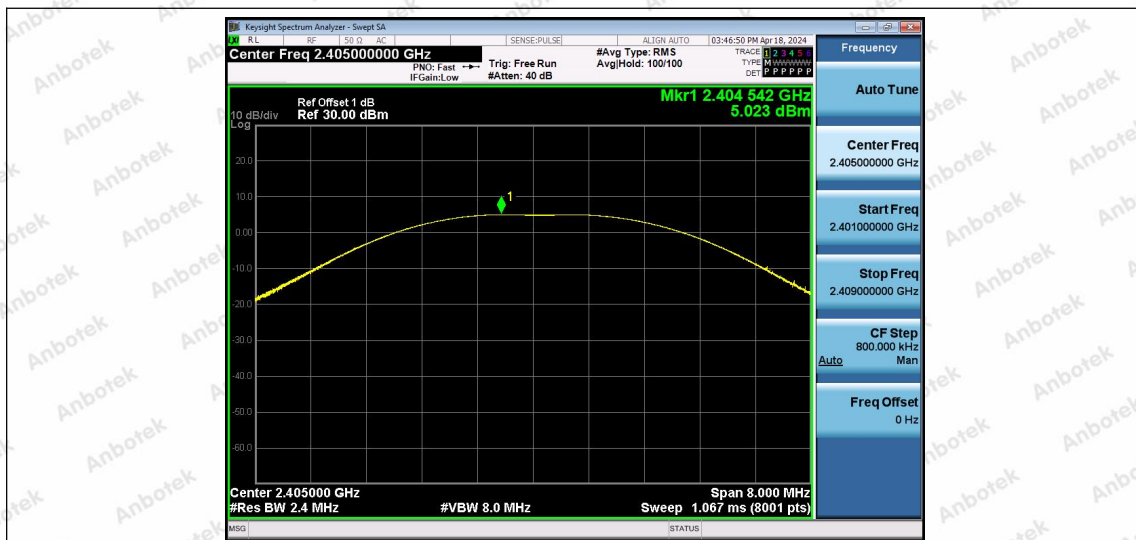


## Appendix C: Maximum conducted output power

### Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
Zigbee	Ant1	2405	5.02	≤30	PASS
Zigbee	Ant1	2440	4.95	≤30	PASS
Zigbee	Ant1	2480	4.76	≤30	PASS

### Test Graphs Peak

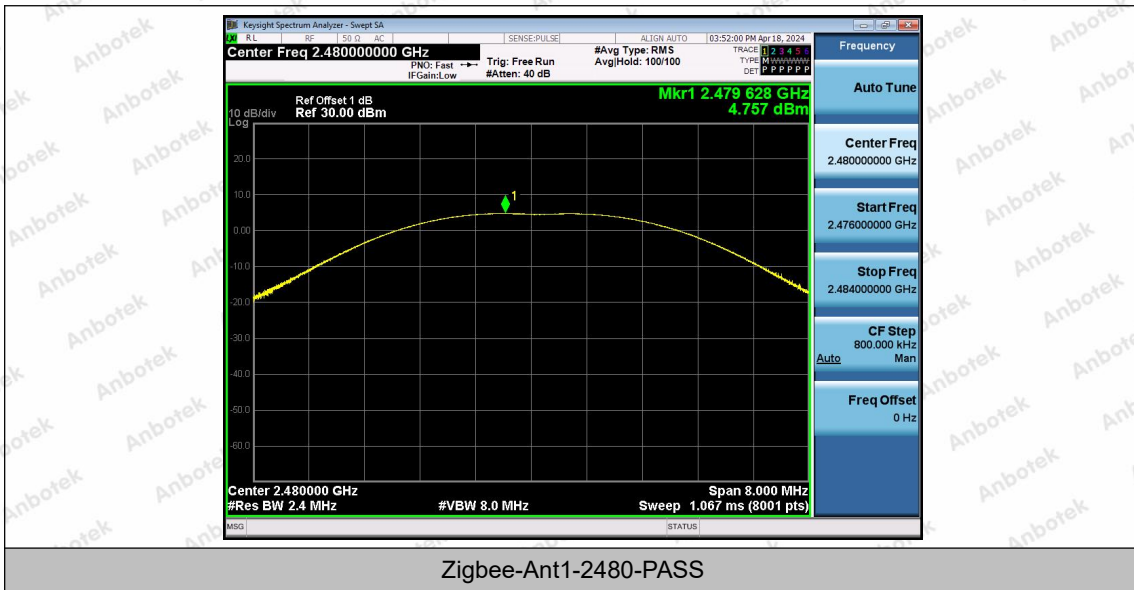


Zigbee-Ant1-2405-PASS



Zigbee-Ant1-2440-PASS





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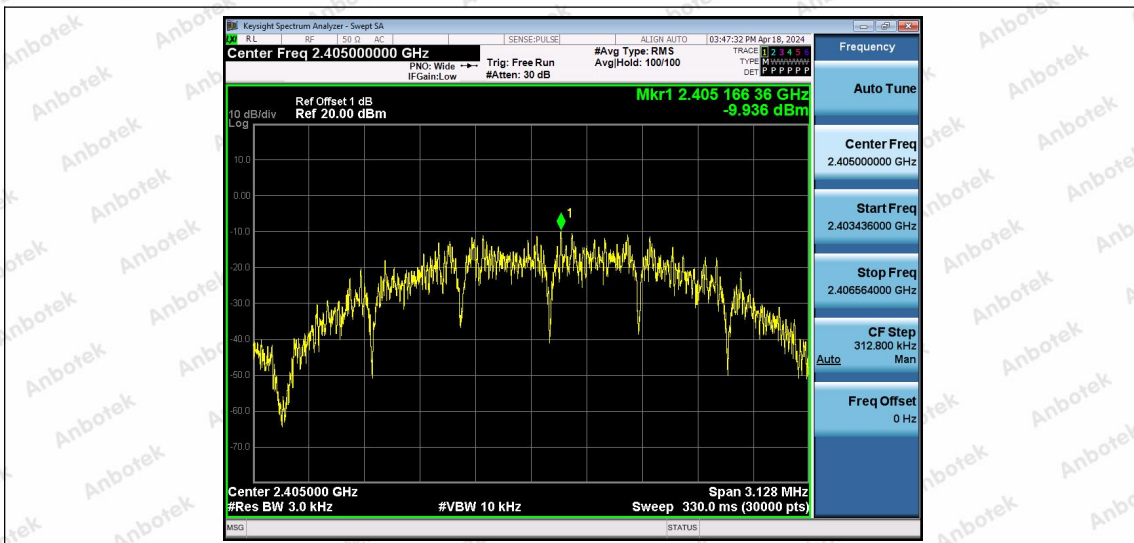


## Appendix D: Maximum power spectral density

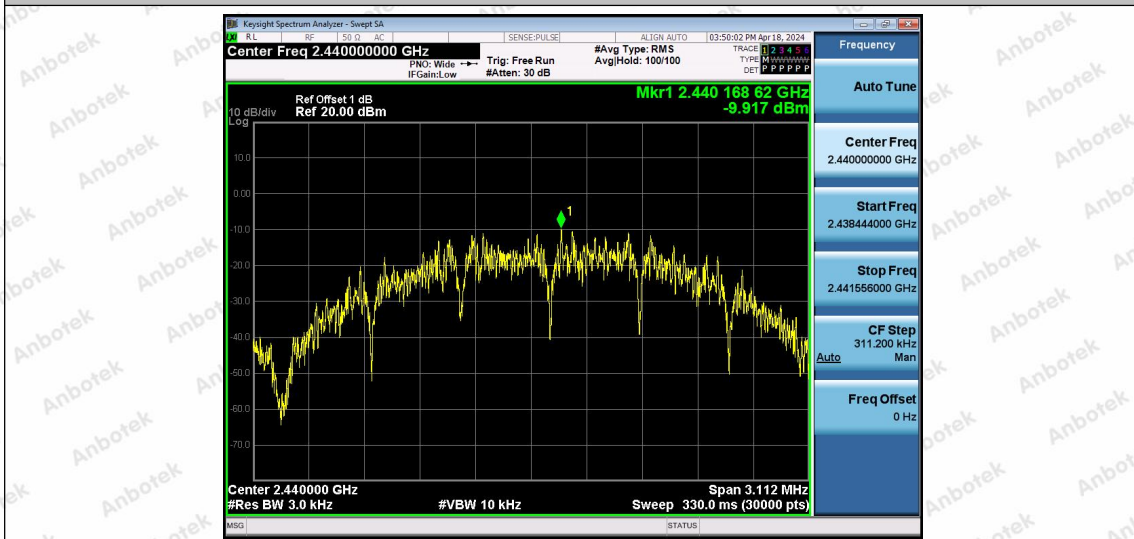
### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
Zigbee	Ant1	2405	-9.94	≤8.00	PASS
Zigbee	Ant1	2440	-9.92	≤8.00	PASS
Zigbee	Ant1	2480	-10.05	≤8.00	PASS

### Test Graphs

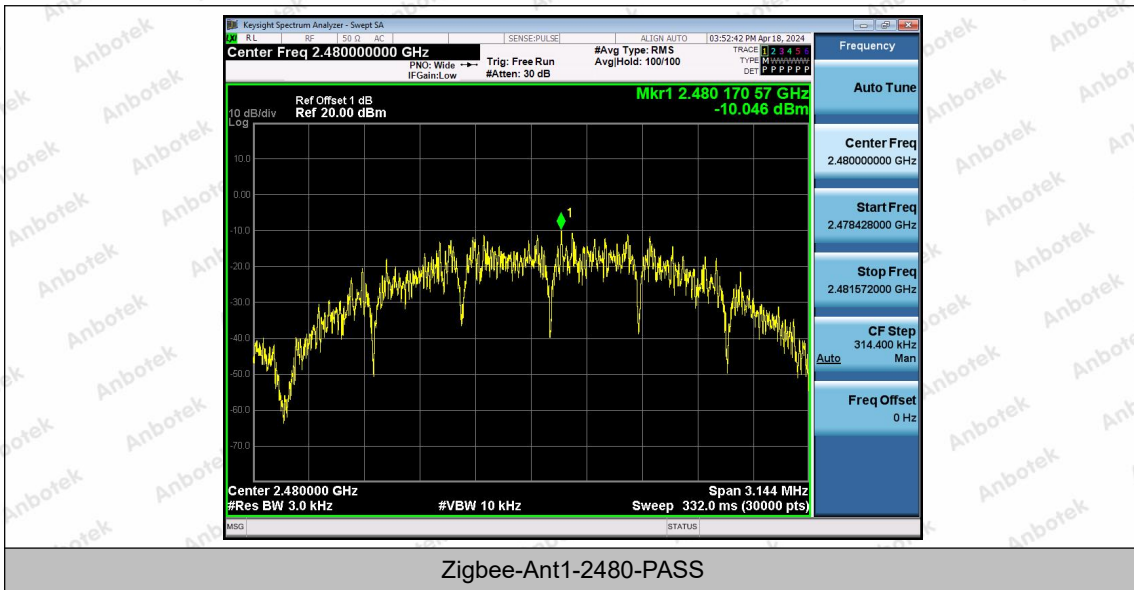


Zigbee-Ant1-2405-PASS



Zigbee-Ant1-2440-PASS





Zigbee-Ant1-2480-PASS

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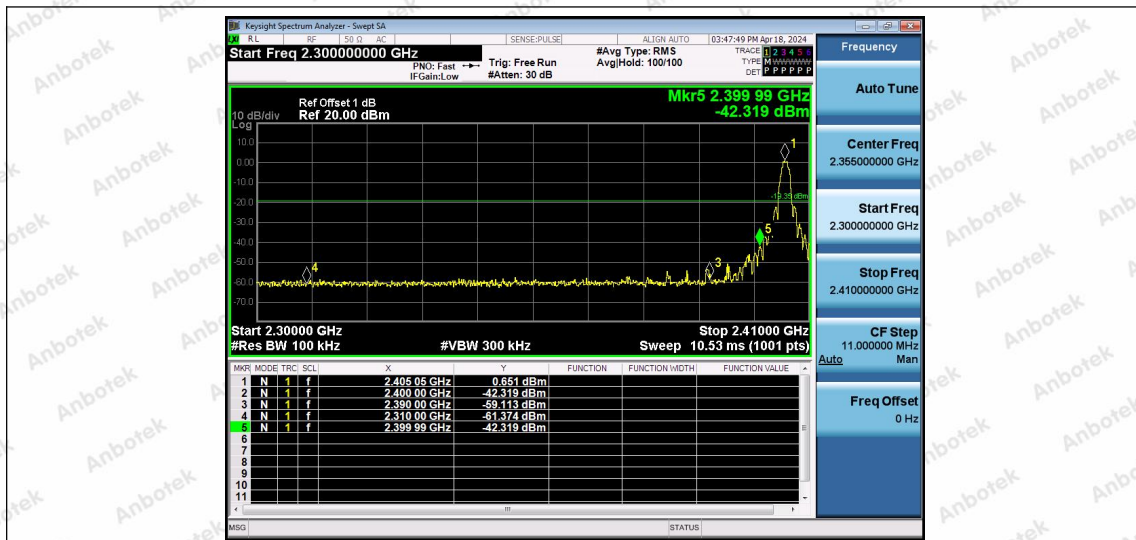


## Appendix E: Band edge measurements

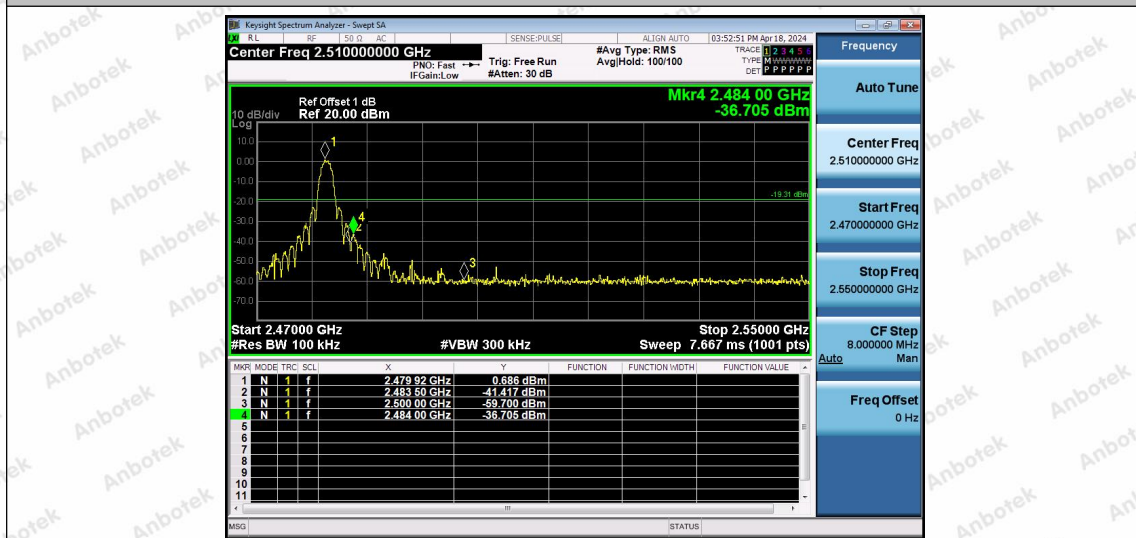
### Test Result

TestMod	Antenn	ChNam	Frequency[MHz	RefLevel[dBm	Result[dBm	Limit[dBm	Verdic
e	a	e	]	]	]	]	t
Zigbee	Ant1	Low	2405	0.65	-42.32	≤-19.35	PASS
Zigbee	Ant1	High	2480	0.69	-36.71	≤-19.31	PASS

### Test Graphs



Zigbee-Ant1-2405-PASS



Zigbee-Ant1-2480-PASS



## Appendix F: Conducted Spurious Emission

### Test Result

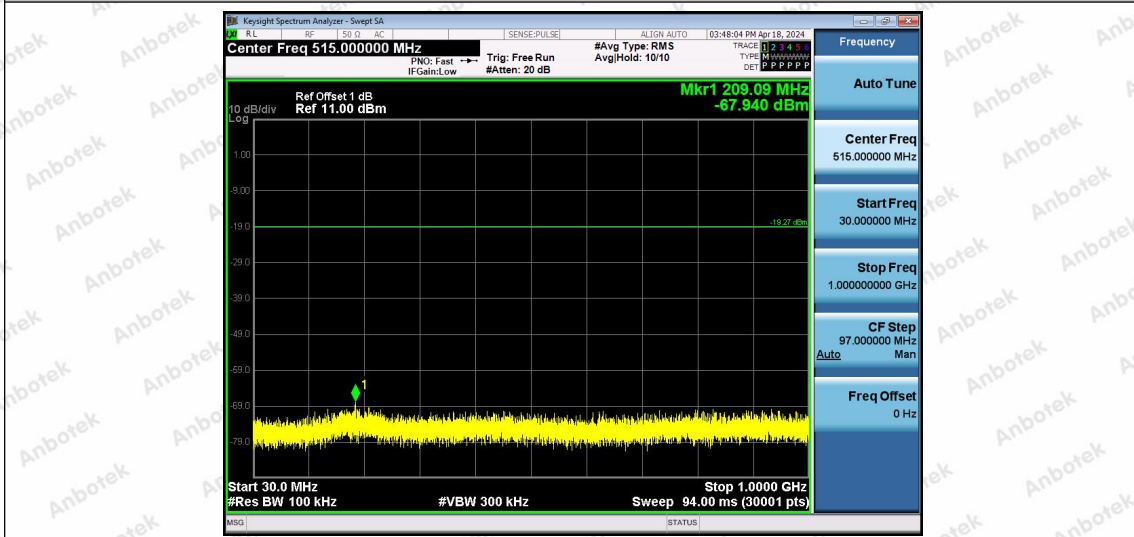
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
Zigbee	Ant1	2405	0~Reference	0.73	0.73	---	PASS
Zigbee	Ant1	2405	30~1000	0.73	-67.94	≤-19.27	PASS
Zigbee	Ant1	2405	1000~26500	0.73	-50.12	≤-19.27	PASS
Zigbee	Ant1	2440	0~Reference	0.57	0.57	---	PASS
Zigbee	Ant1	2440	30~1000	0.57	-67.95	≤-19.43	PASS
Zigbee	Ant1	2440	1000~26500	0.57	-53.41	≤-19.43	PASS
Zigbee	Ant1	2480	0~Reference	0.44	0.44	---	PASS
Zigbee	Ant1	2480	30~1000	0.44	-68.34	≤-19.56	PASS
Zigbee	Ant1	2480	1000~26500	0.44	-53.21	≤-19.56	PASS



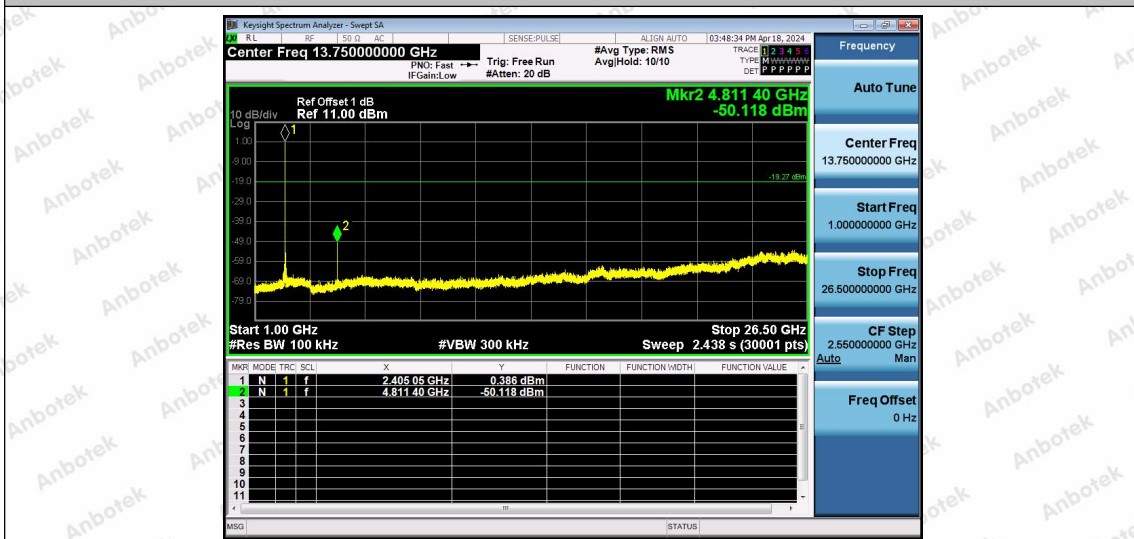
## Test Graphs



Zigbee-Ant1-2405-0~Reference-PASS



Zigbee-Ant1-2405-30~1000-PASS



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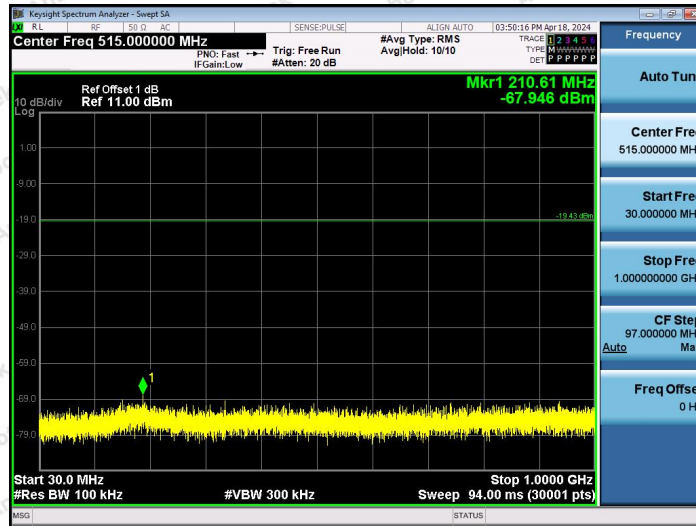
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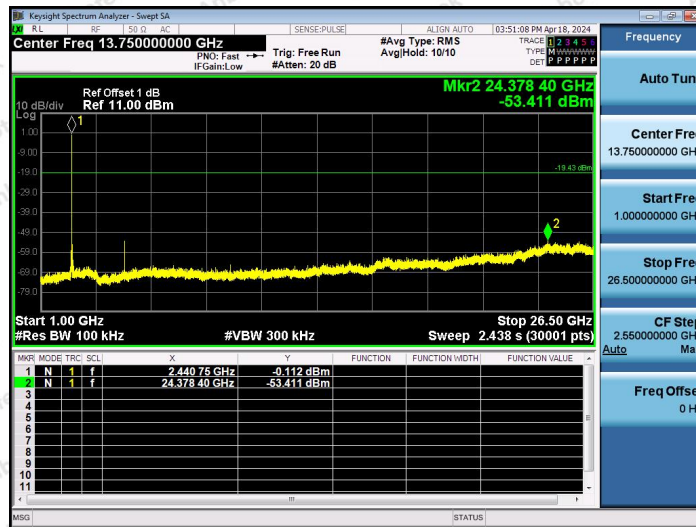
### Zigbee-Ant1-2405-1000~26500-PASS



### Zigbee-Ant1-2440-0~Reference-PASS



### Zigbee-Ant1-2440-30~1000-PASS



### Zigbee-Ant1-2440-1000~26500-PASS

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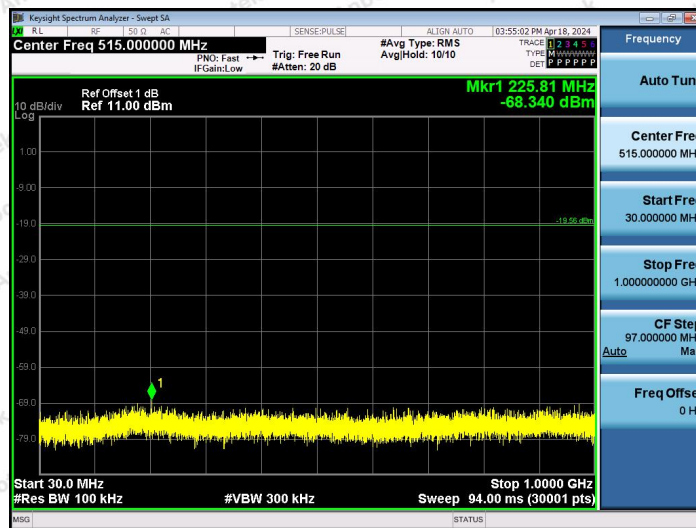
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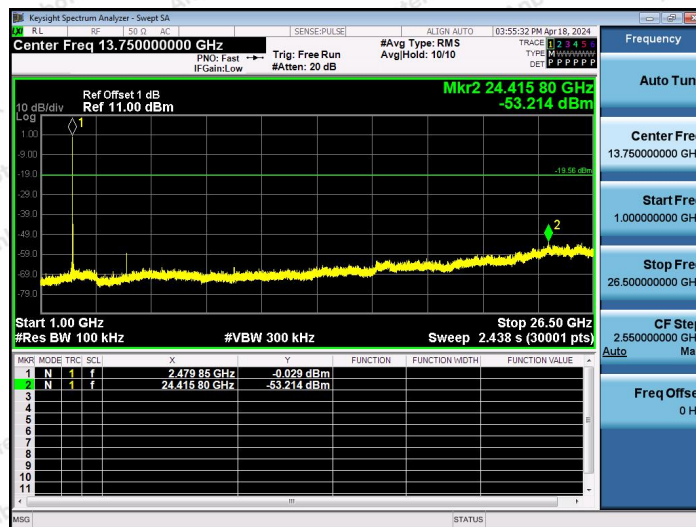




Zigbee-Ant1-2480-0~Reference-PASS



Zigbee-Ant1-2480-30~1000-PASS



Zigbee-Ant1-2480-1000~26500-PASS

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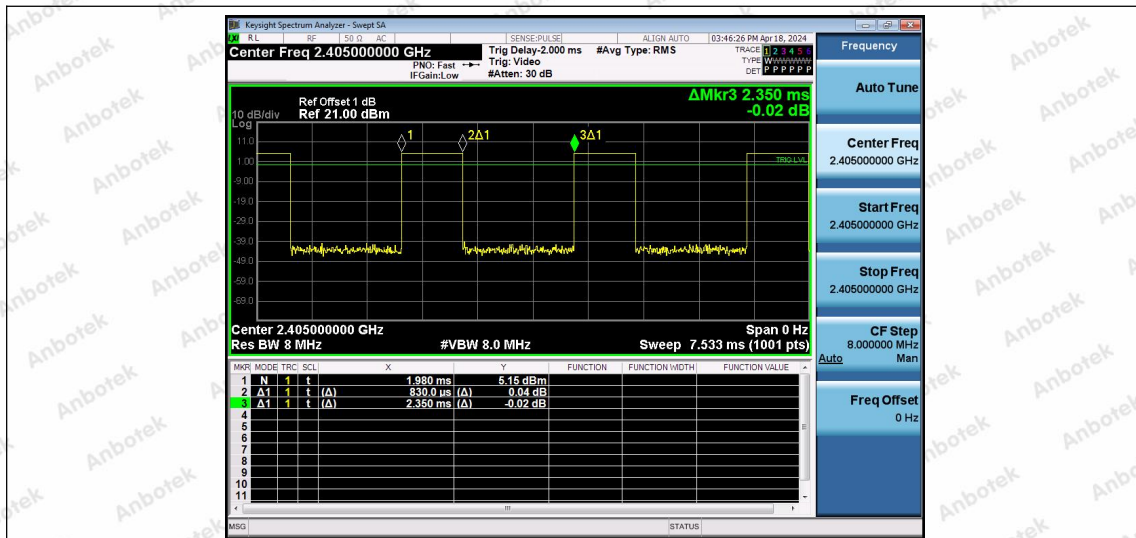


## Appendix G: Duty Cycle

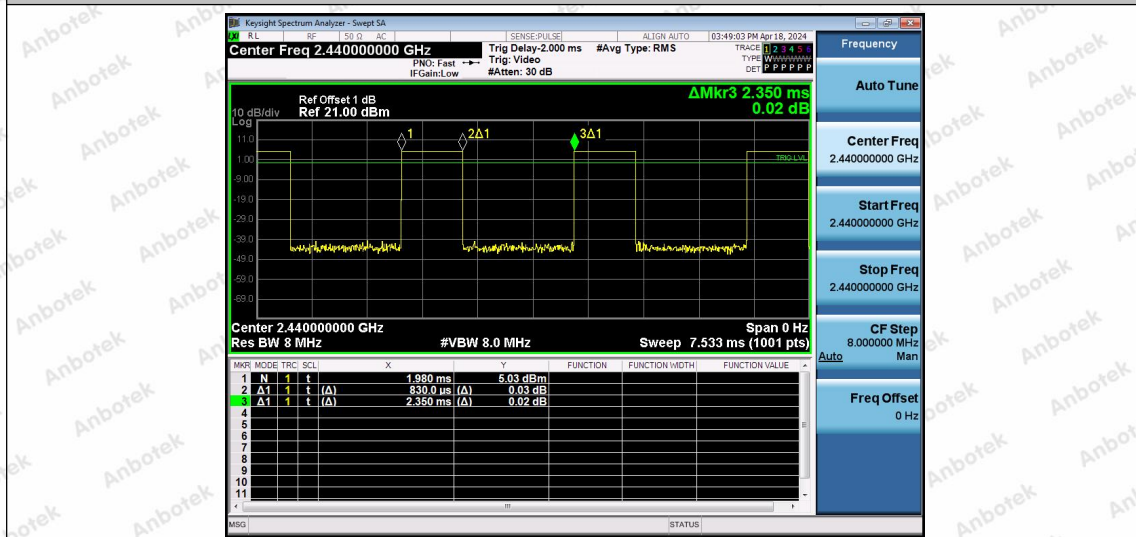
### Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
Zigbee	Ant1	2405	0.83	2.35	35.32	4.52
Zigbee	Ant1	2440	0.83	2.35	35.32	4.52
Zigbee	Ant1	2480	0.83	2.35	35.32	4.52

### Test Graphs

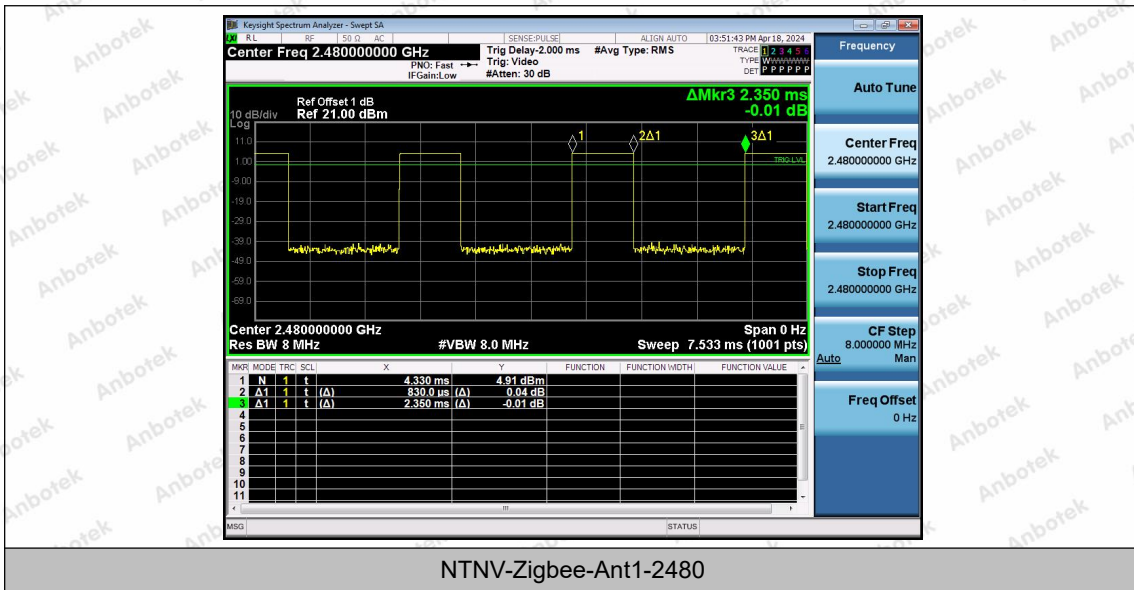


NTNV-Zigbee-Ant1-2405



NTNV-Zigbee-Ant1-2440





NTNV-Zigbee-Ant1-2480

---End---

