

Appendix Test Data

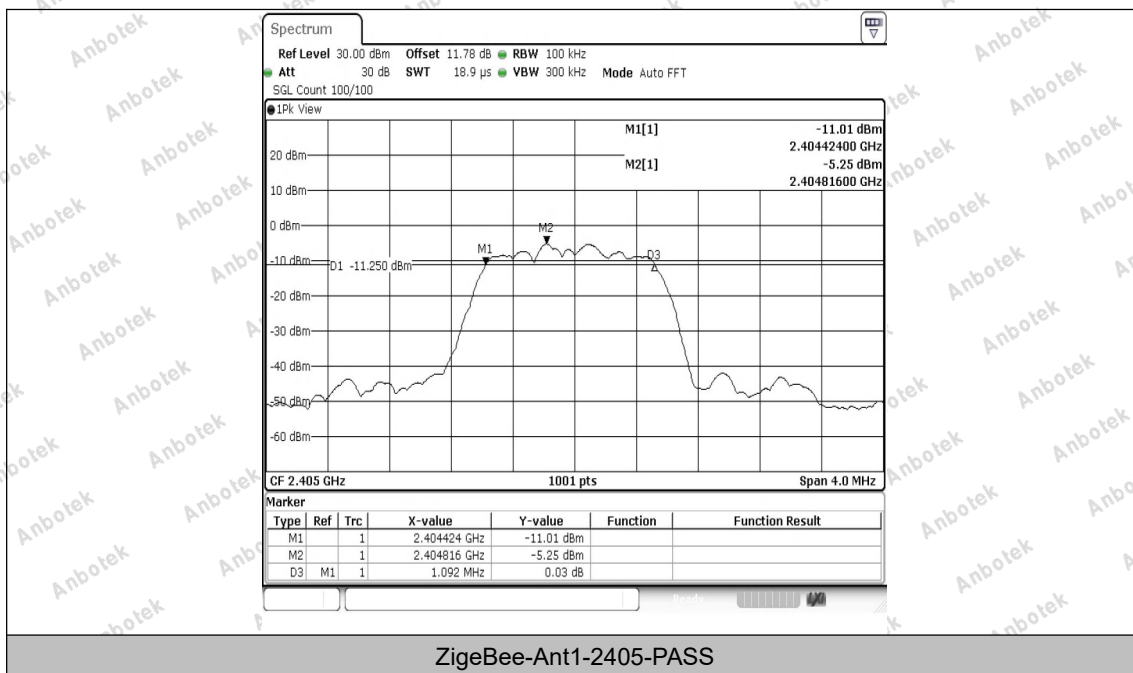
Report No:	1812C40005712501	Test Sample NO:	1-2-2
Start Test Date:	2024.9.10	Finish Test Date:	2024.9.10
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.3°C	Relative Humidity:	45%
Pressure:	101 kPa		

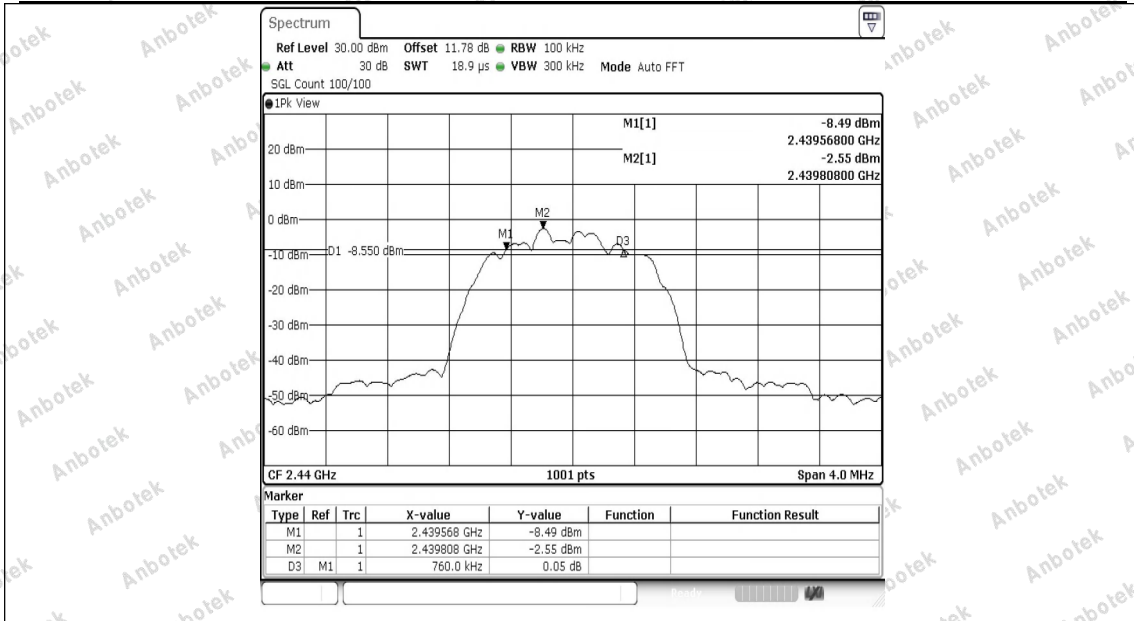
Appendix A: DTS Bandwidth

Test Result

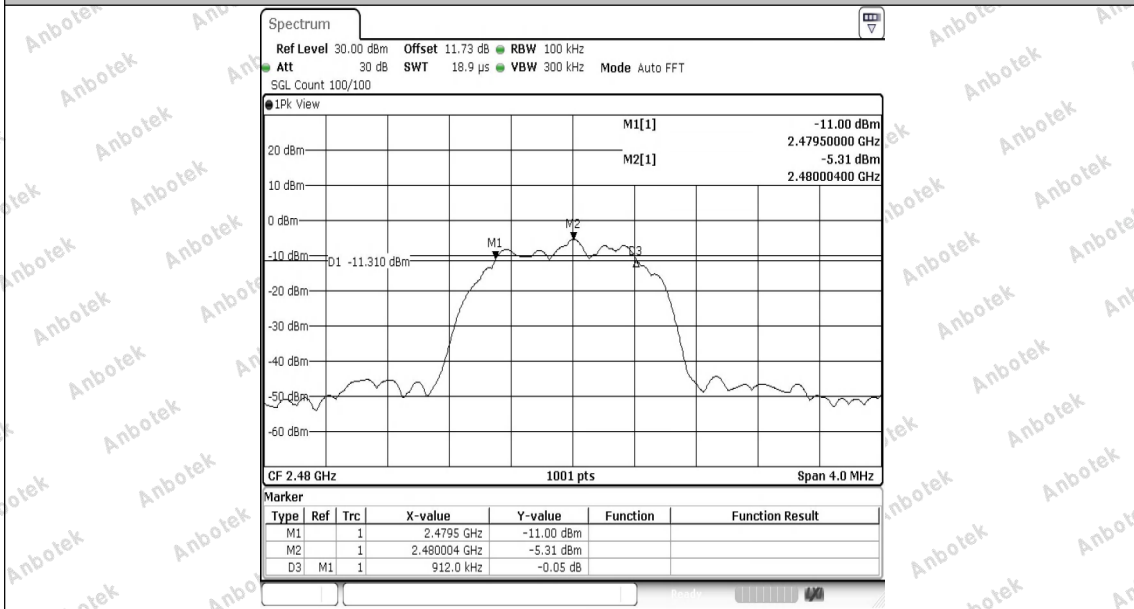
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
ZigBee	Ant1	2405	1.09	2404.42	2405.52	0.5	PASS
ZigBee	Ant1	2440	0.76	2439.57	2440.33	0.5	PASS
ZigBee	Ant1	2480	0.91	2479.50	2480.41	0.5	PASS

Test Graphs





ZigeBee-Ant1-2440-PASS



ZigeBee-Ant1-2480-PASS

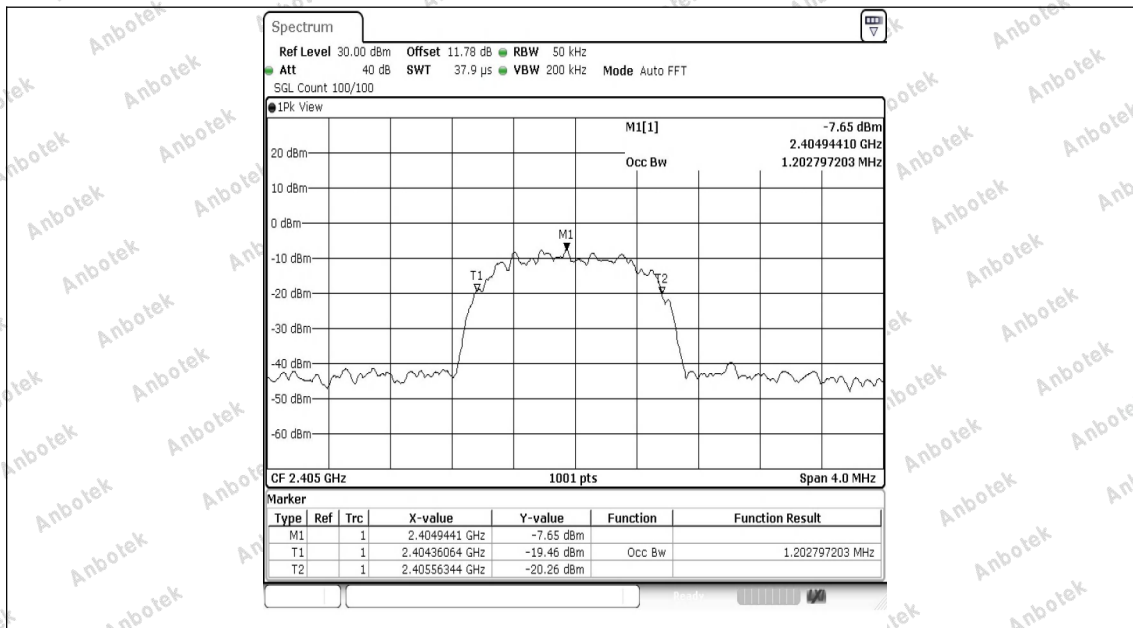


Appendix B: Occupied Channel Bandwidth

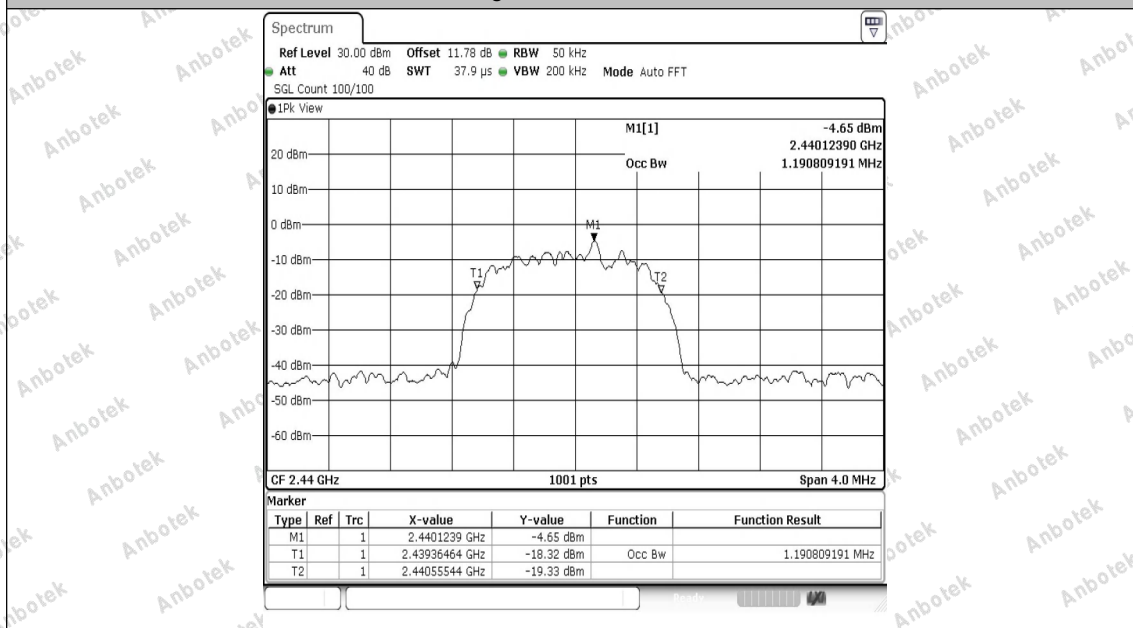
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
ZigBee	Ant1	2405	1.203	2404.3606	2405.5634	---	---
ZigBee	Ant1	2440	1.191	2439.3646	2440.5554	---	---
ZigBee	Ant1	2480	1.199	2479.3686	2480.5674	---	---

Test Graphs

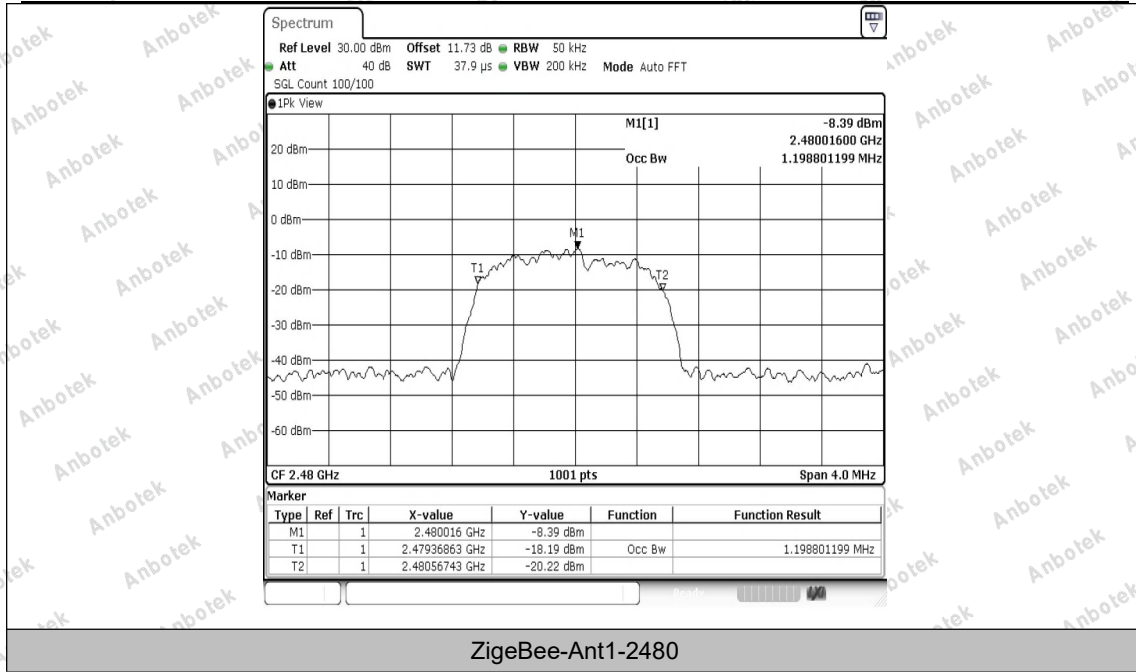


ZigeBee-Ant1-2405



ZigeBee-Ant1-2440





Shenzhen Anbotek Compliance Laboratory Limited

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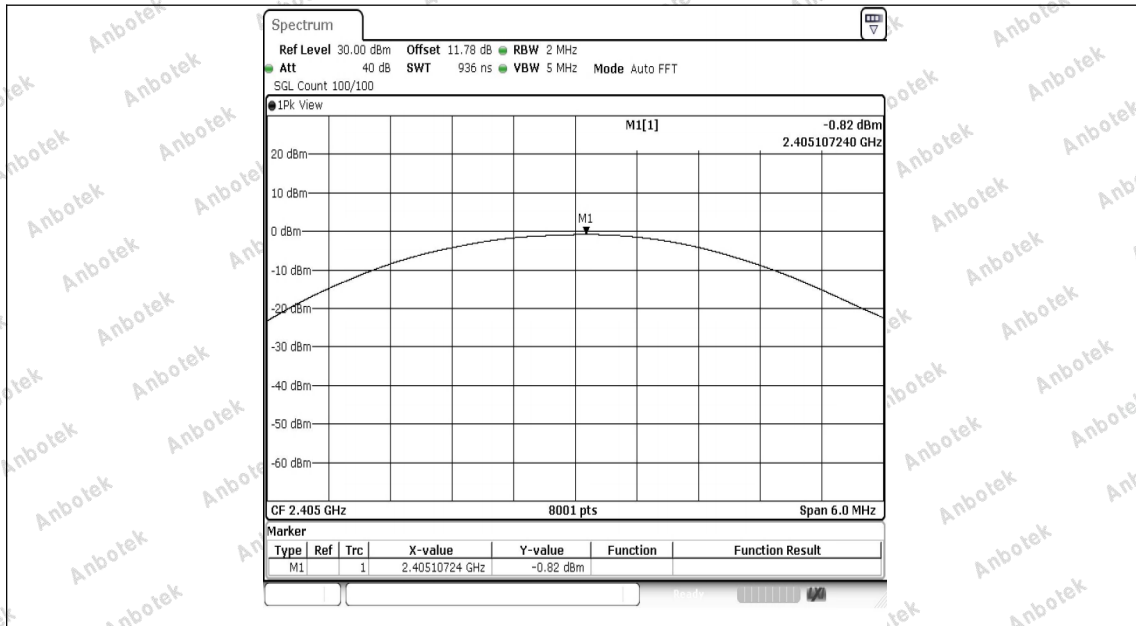


Appendix C: Maximum conducted output power

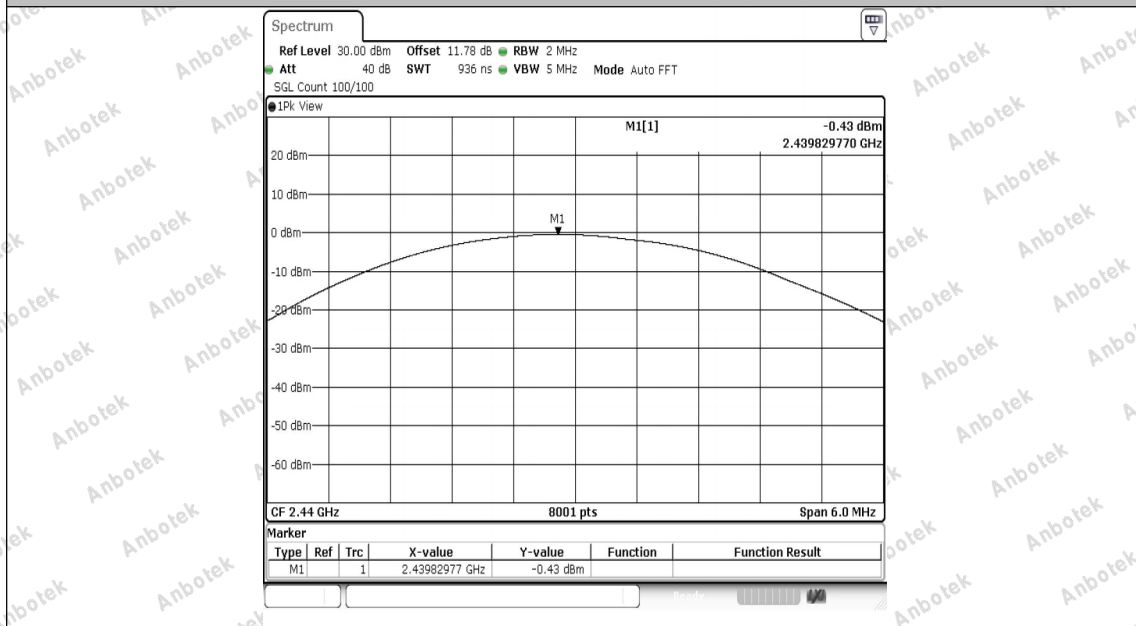
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
ZigeBee	Ant1	2405	-0.82	≤30	PASS
ZigeBee	Ant1	2440	-0.43	≤30	PASS
ZigeBee	Ant1	2480	-1.30	≤30	PASS

Test Graphs Peak

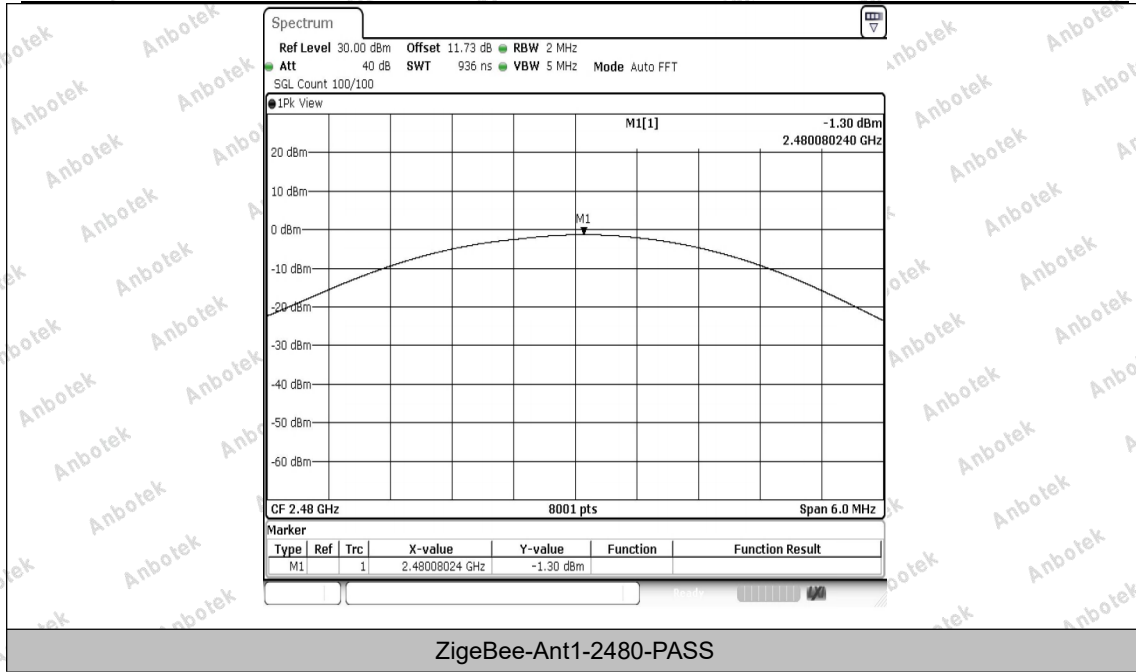


ZigeBee-Ant1-2405-PASS



ZigeBee-Ant1-2440-PASS





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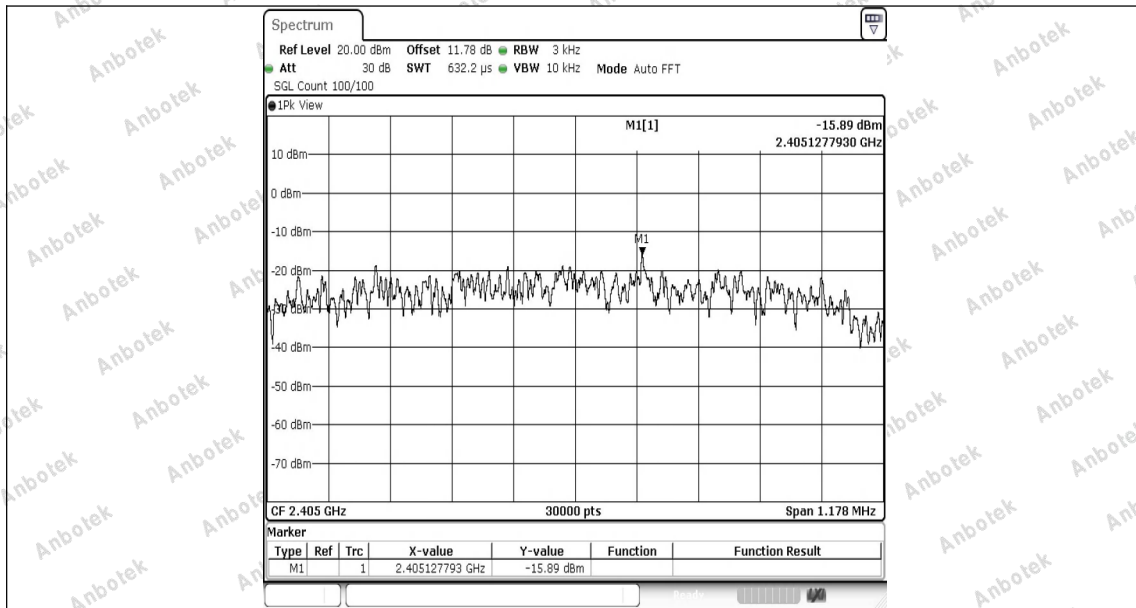


Appendix D: Maximum power spectral density

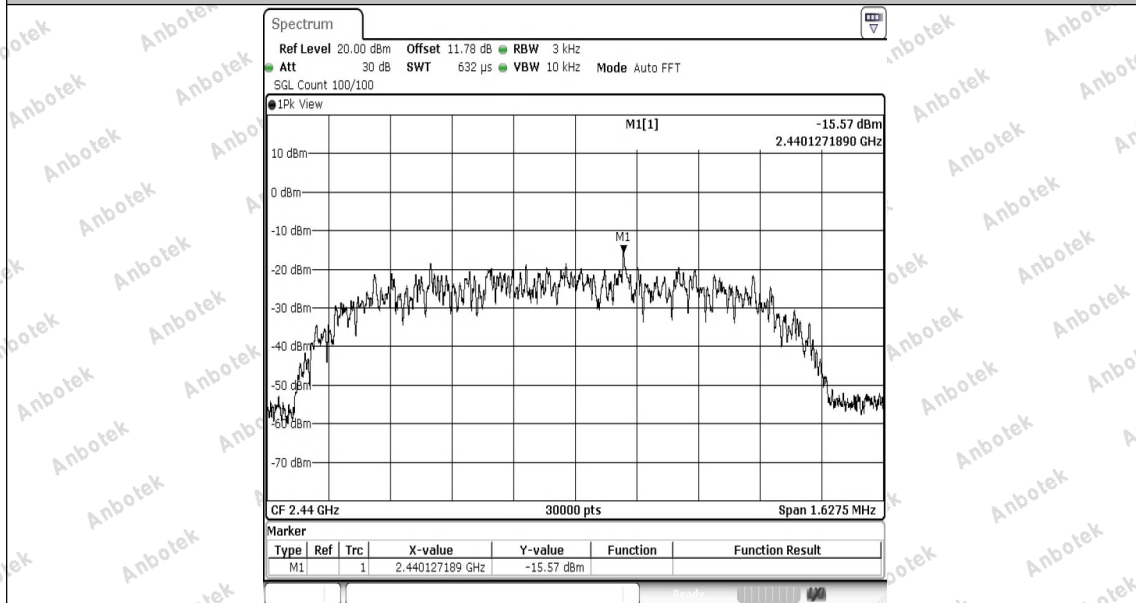
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
ZigBee	Ant1	2405	-15.89	≤8.00	PASS
ZigBee	Ant1	2440	-15.57	≤8.00	PASS
ZigBee	Ant1	2480	-19.15	≤8.00	PASS

Test Graphs

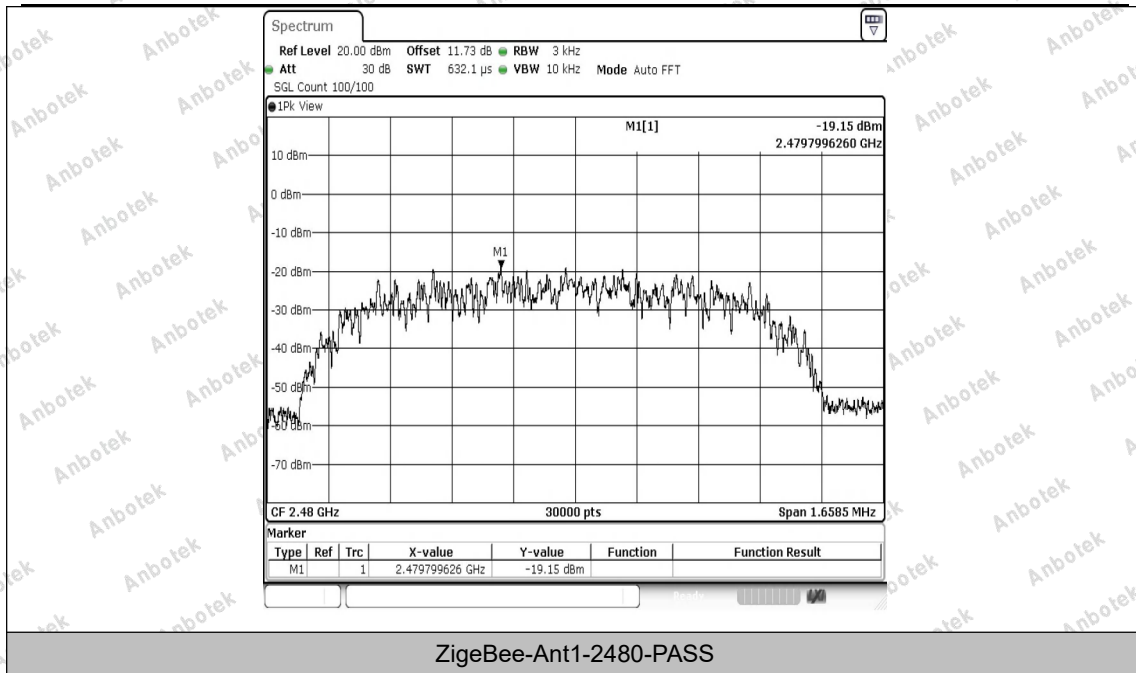


ZigBee-Ant1-2405-PASS



ZigBee-Ant1-2440-PASS





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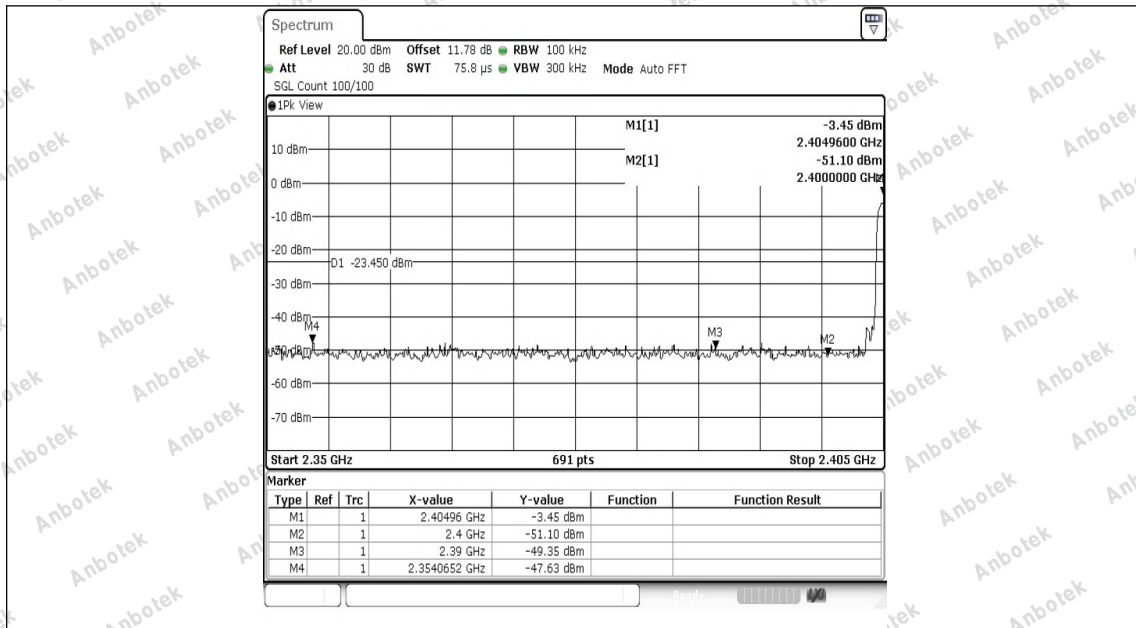


Appendix E: Band edge measurements

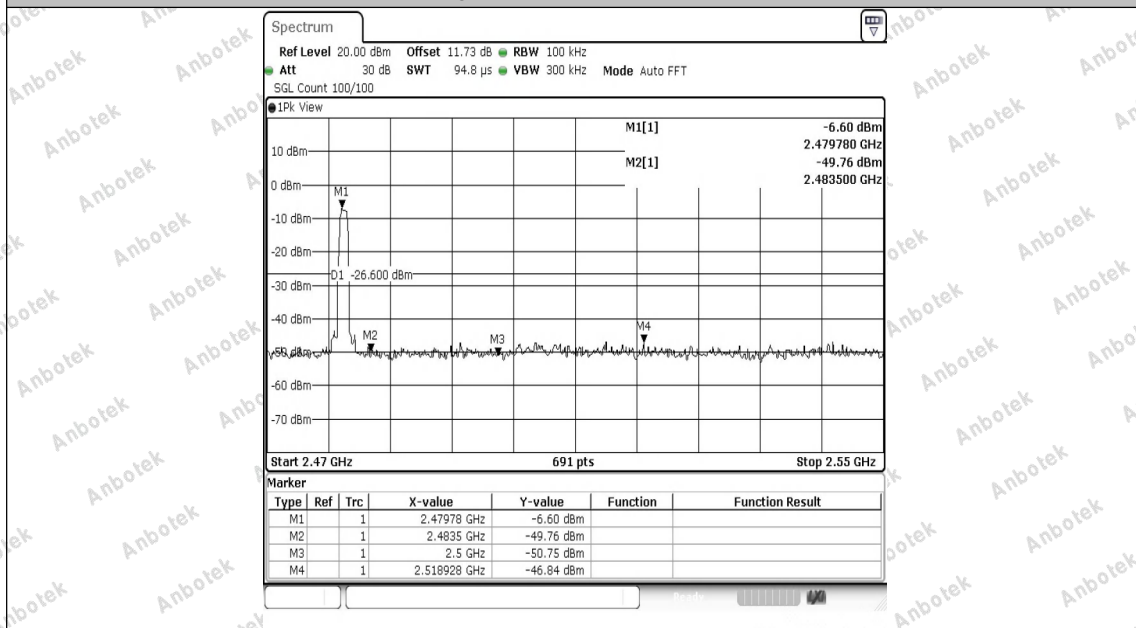
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
ZigBee	Ant1	Low	2405	-3.45	-47.63	≤-23.45	PASS
ZigBee	Ant1	High	2480	-6.60	-46.84	≤-26.6	PASS

Test Graphs



ZigBee-Ant1-2405-PASS



ZigBee-Ant1-2480-PASS

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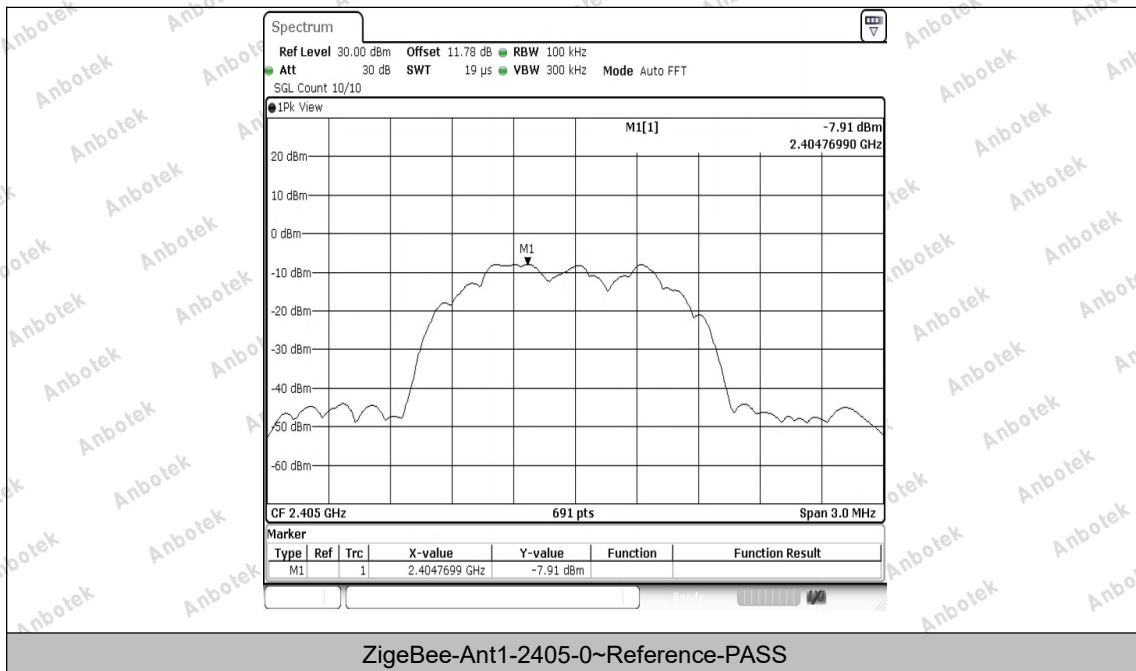


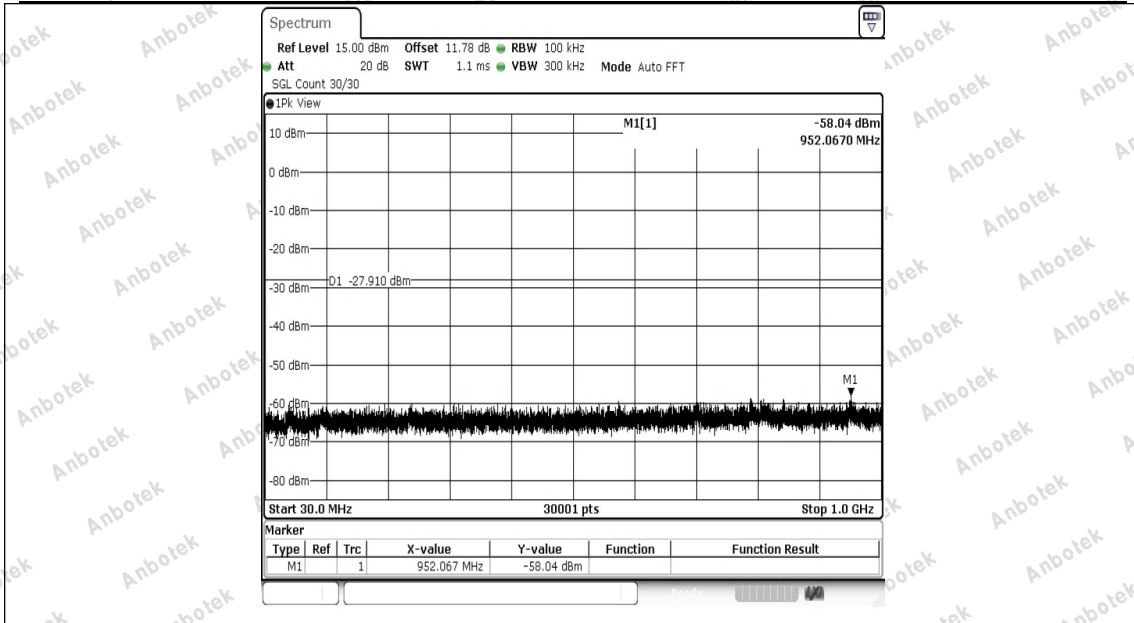
Appendix F: Conducted Spurious Emission

Test Result

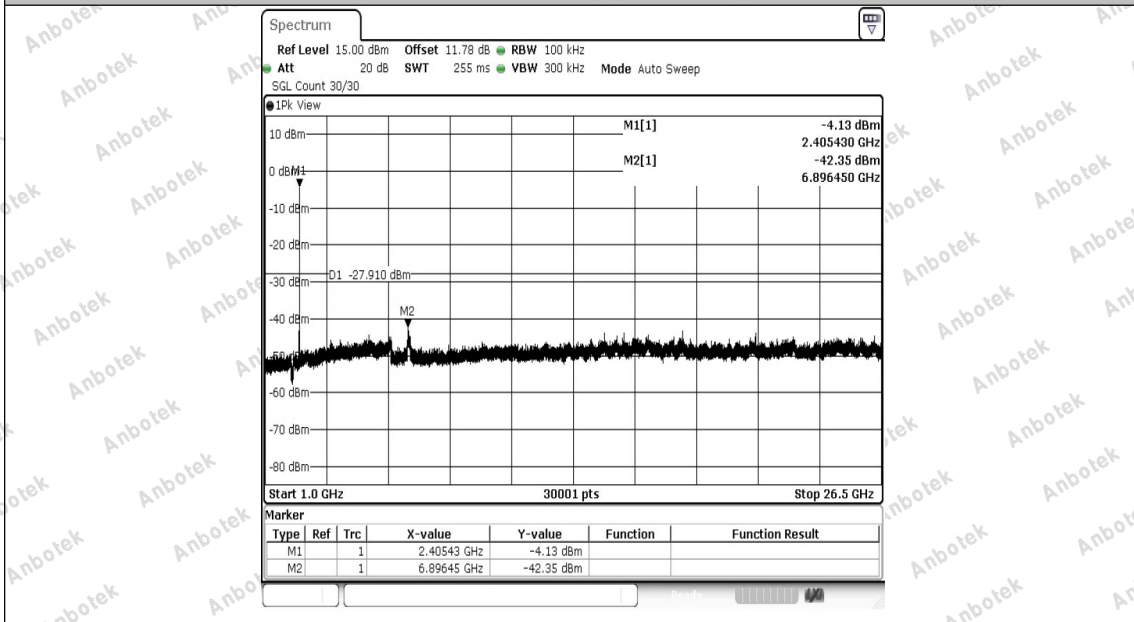
TestMod e	Antenn a	Frequency[MHz]	FreqRange [MHz]	RefLeve l [dBm]	Result[dBm]	Limit[dBm]	Verdic t
ZigBee	Ant1	2405	0~Referenc e	-7.91	-7.91	---	PASS
ZigBee	Ant1	2405	30~1000	-7.91	-58.04	≤-27.91	PASS
ZigBee	Ant1	2405	1000~26500	-7.91	-42.35	≤-27.91	PASS
ZigBee	Ant1	2440	0~Referenc e	-5.22	-5.22	---	PASS
ZigBee	Ant1	2440	30~1000	-5.22	-52.34	≤-25.22	PASS
ZigBee	Ant1	2440	1000~26500	-5.22	-44.13	≤-25.22	PASS
ZigBee	Ant1	2480	0~Referenc e	-4.58	-4.58	---	PASS
ZigBee	Ant1	2480	30~1000	-4.58	-54.47	≤-24.58	PASS
ZigBee	Ant1	2480	1000~26500	-4.58	-43.32	≤-24.58	PASS

Test Graphs



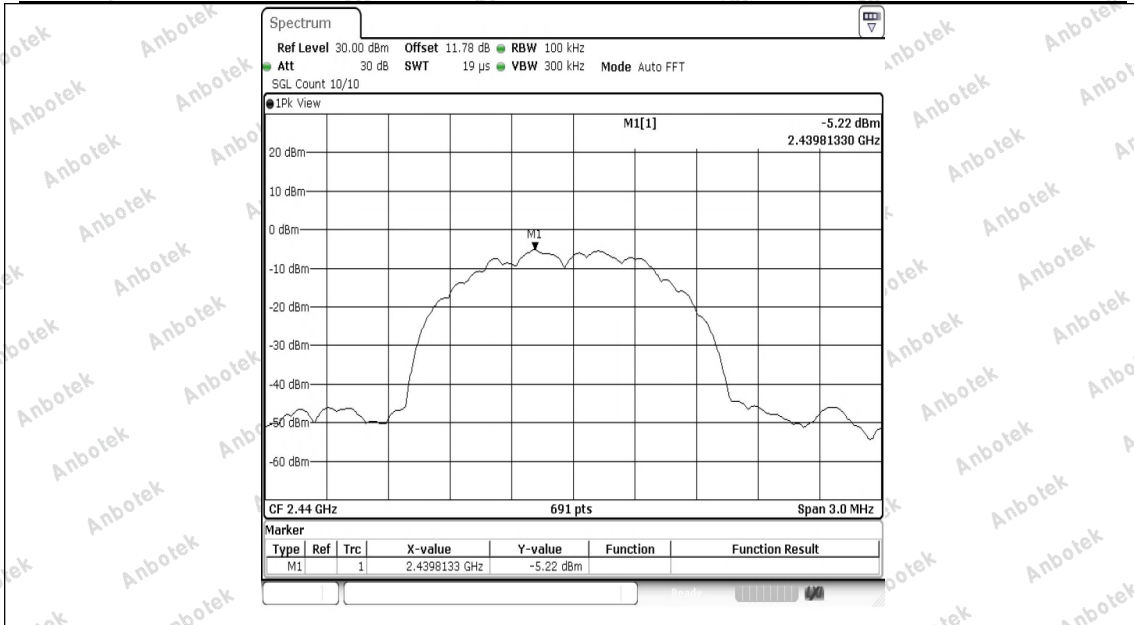


ZigeBee-Ant1-2405-30~1000-PASS

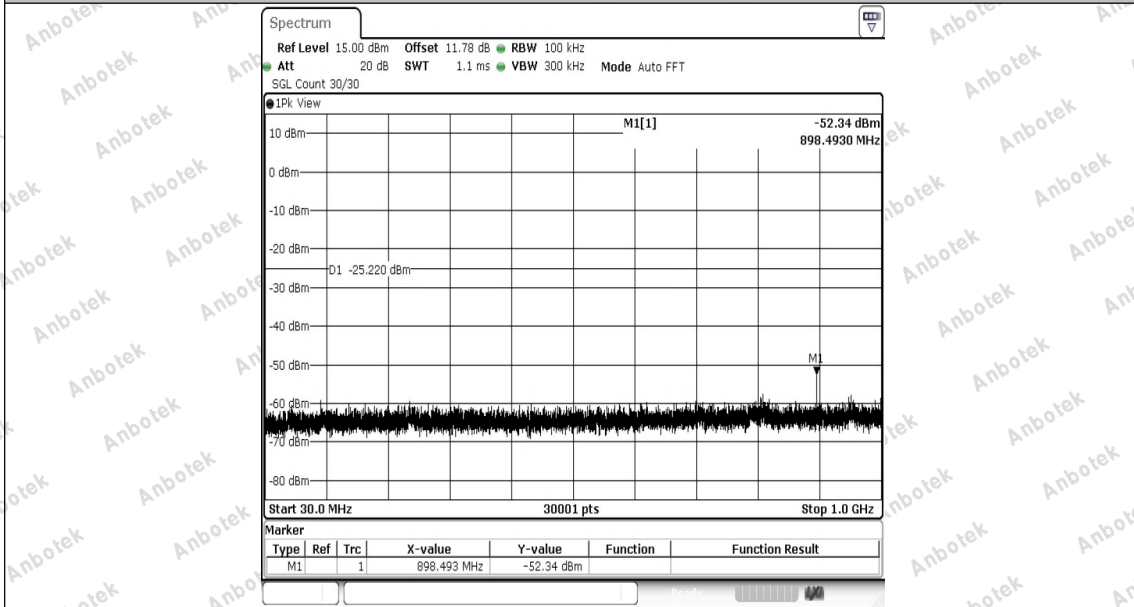


ZigeBee-Ant1-2405-1000~26500-PASS



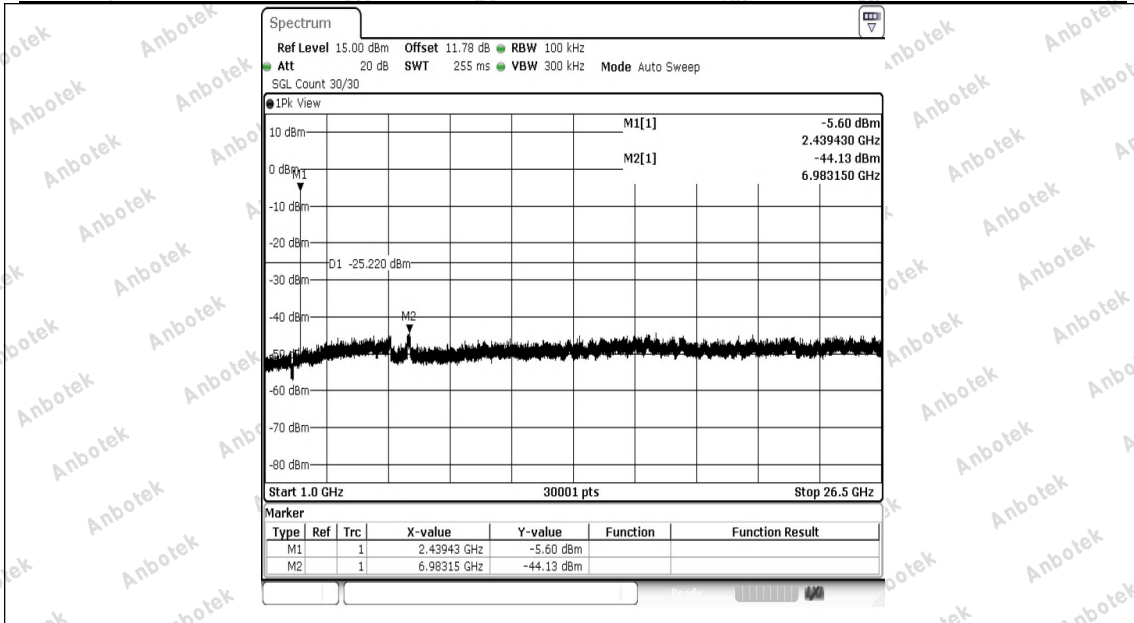


ZigeBee-Ant1-2440-0~Reference-PASS

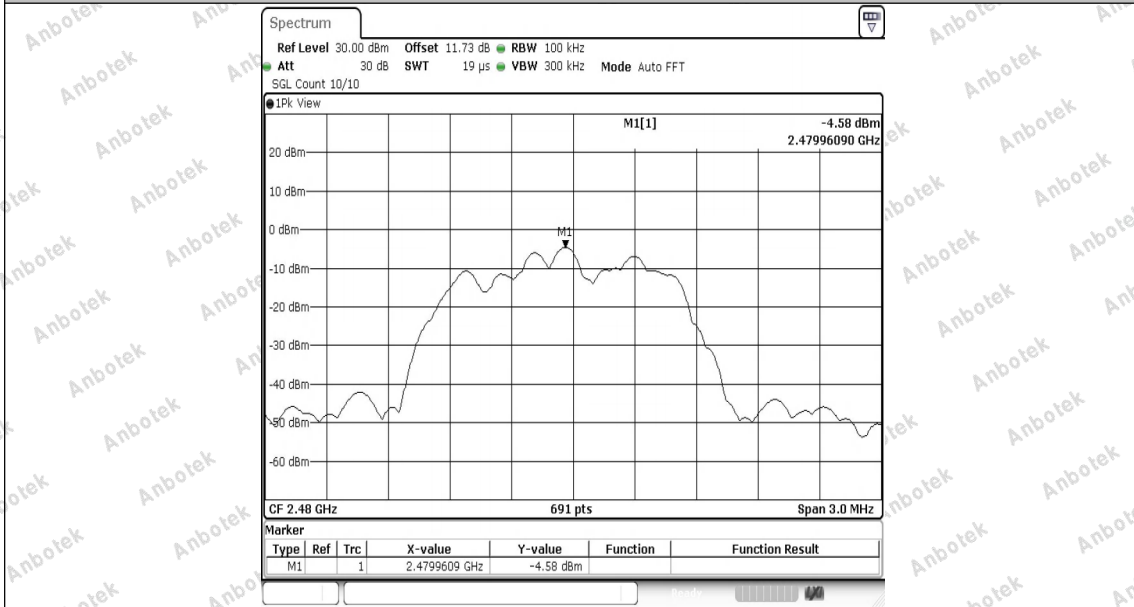


ZigeBee-Ant1-2440-30~1000-PASS



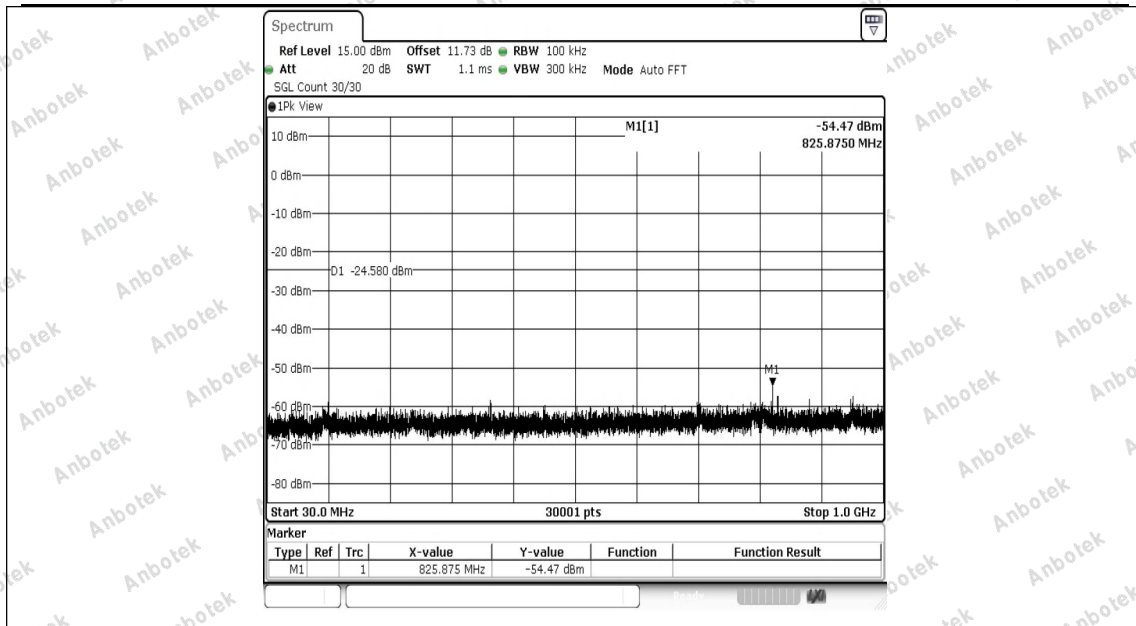


ZigeBee-Ant1-2440-1000~26500-PASS

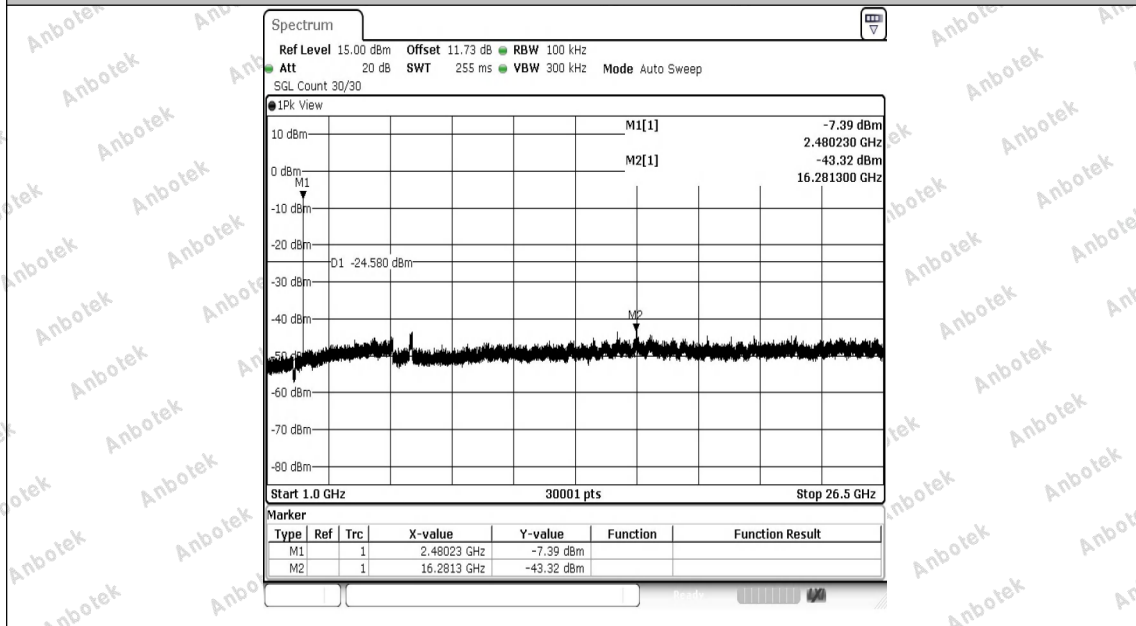


ZigeBee-Ant1-2480-0~Reference-PASS





ZigBee-Ant1-2480-30~1000-PASS



ZigBee-Ant1-2480-1000~26500-PASS

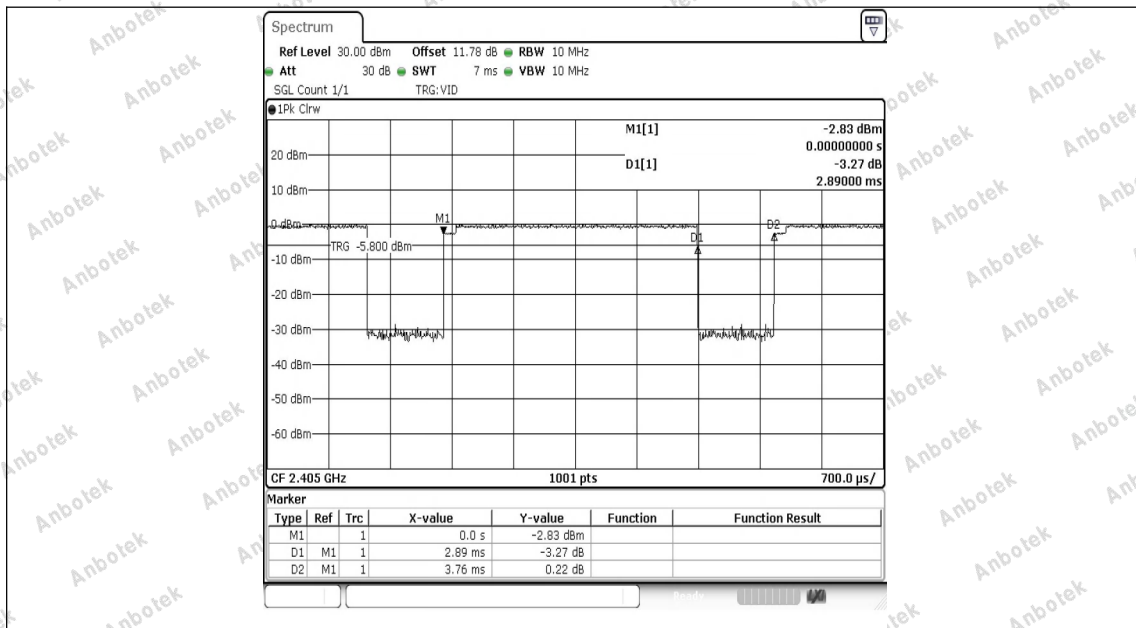


Appendix G: Duty Cycle

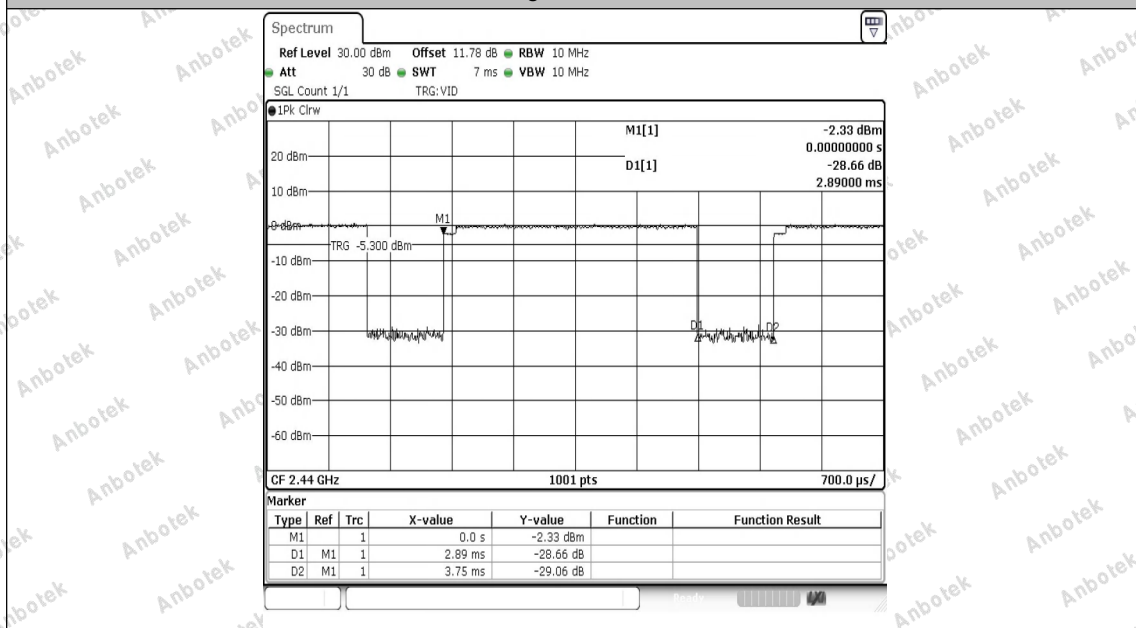
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
ZigBee	Ant1	2405	2.89	3.76	76.86	1.14
ZigBee	Ant1	2440	2.89	3.75	77.07	1.13
ZigBee	Ant1	2480	2.88	3.75	76.80	1.15

Test Graphs

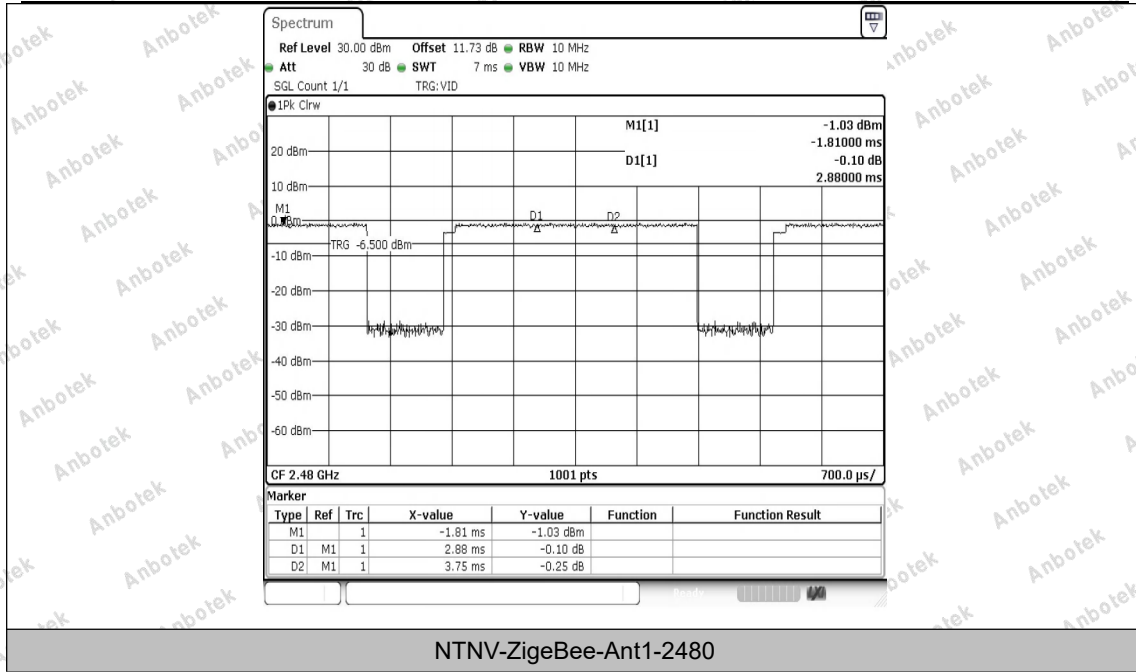


NTNV-ZigBee-Ant1-2405



NTNV-ZigBee-Ant1-2440





---END---

