

Appendix: Zigbee

Contents

Appendix A: DTS Bandwidth..... 3

 Test Result.....3

 Test Graphs.....4

Appendix B: Occupied Channel Bandwidth..... 6

 Test Result.....6

 Test Graphs.....7

Appendix C: Maximum conducted output power..... 9

 Test Result.....9

 Test Graphs.....10

Appendix D: Maximum power spectral density..... 12

 Test Result.....12

 Test Graphs.....13

Appendix E: Band edge measurements..... 15

 Test Result.....15

 Test Graphs.....16

Appendix F: Conducted Spurious Emission..... 17

 Test Result.....17

 Test Graphs.....18

Appendix G: Duty Cycle..... 23

 Test Result.....23

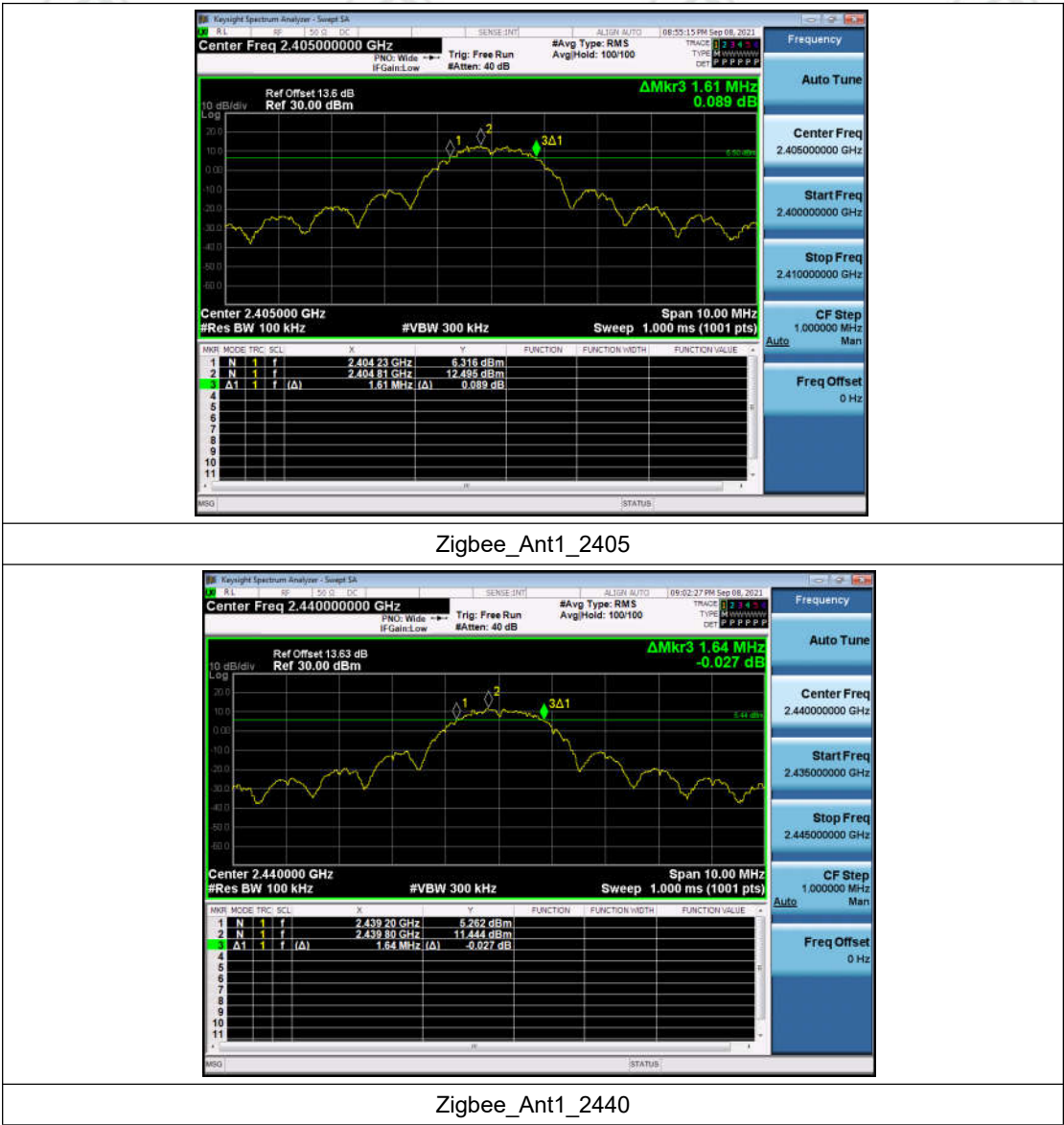
 Test Graphs.....24

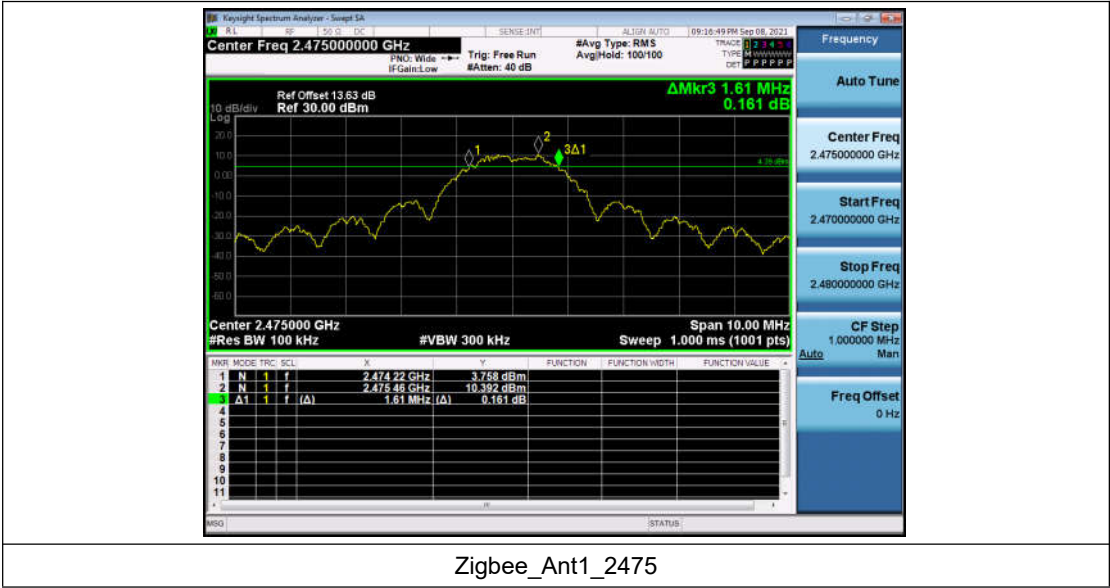
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Zigbee	Ant1	2405	1.61	2404.23	2404.81	0.5	PASS
		2440	1.64	2439.20	2439.80	0.5	PASS
		2475	1.61	2474.22	2475.46	0.5	PASS

Test Graphs





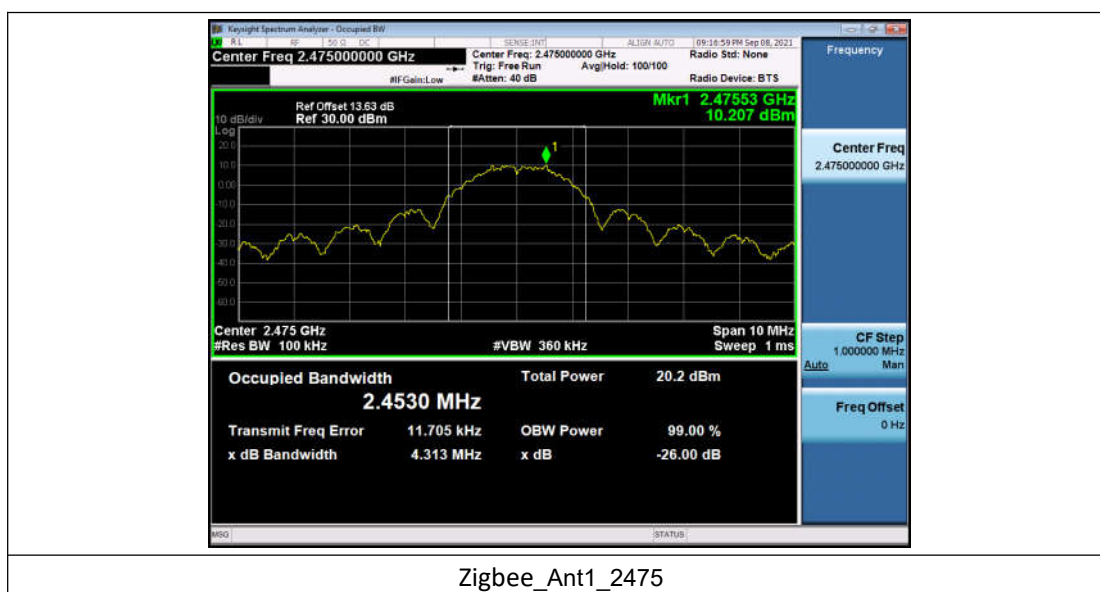
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Zigbee	Ant1	2405	2.42220	1.19390	3.61610	---	PASS
		2440	2.48010	1.19995	3.68005	---	PASS
		2475	2.45300	1.24850	3.70150	---	PASS

Test Graphs



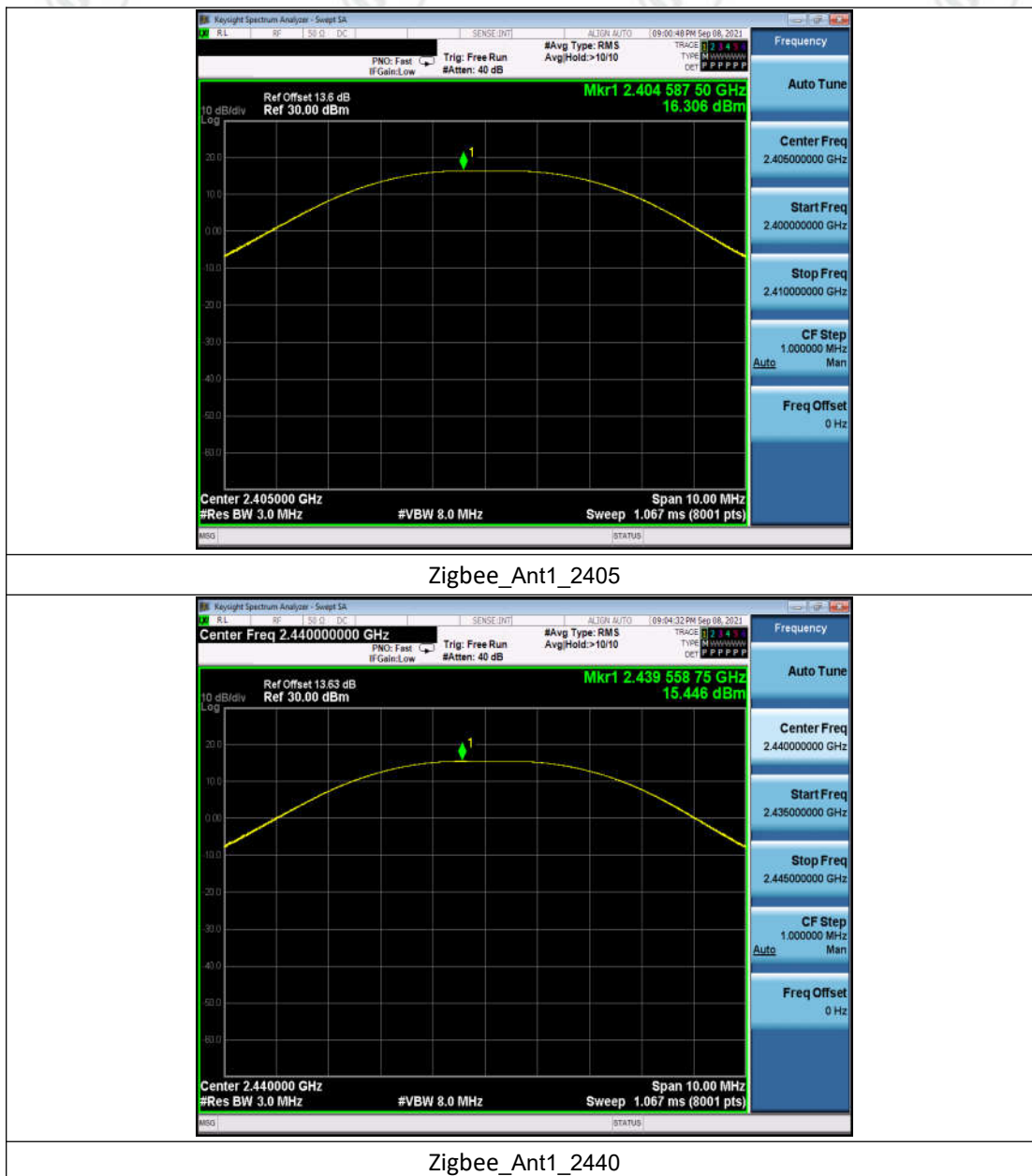


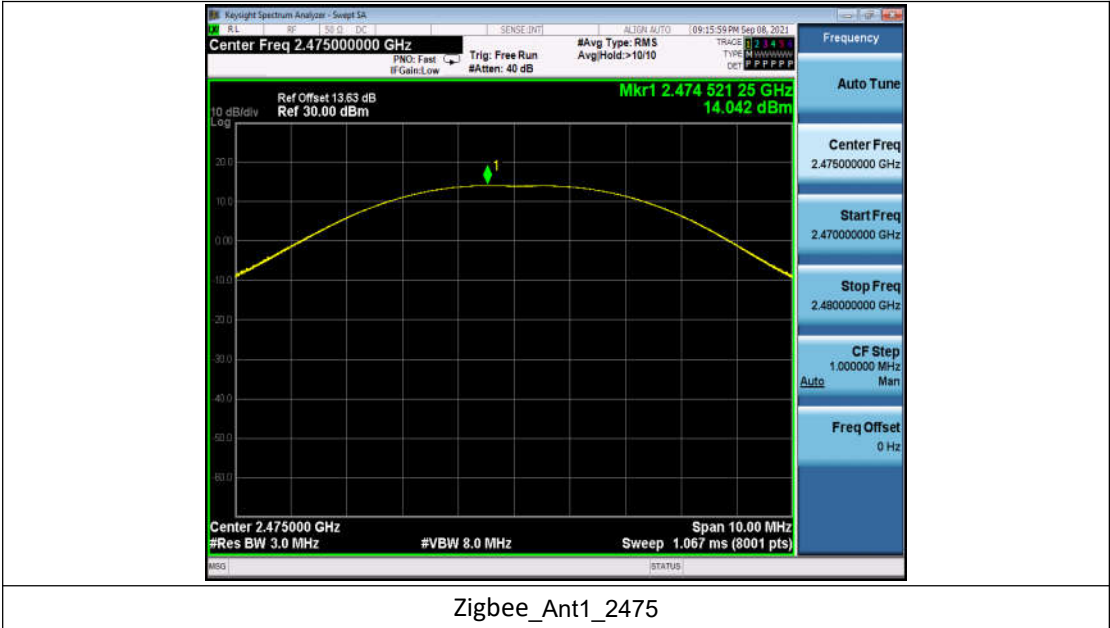
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
Zigbee	Ant1	2405	16.306	<=30	PASS
		2440	15.446	<=30	PASS
		2475	14.042	<=30	PASS

Test Graphs



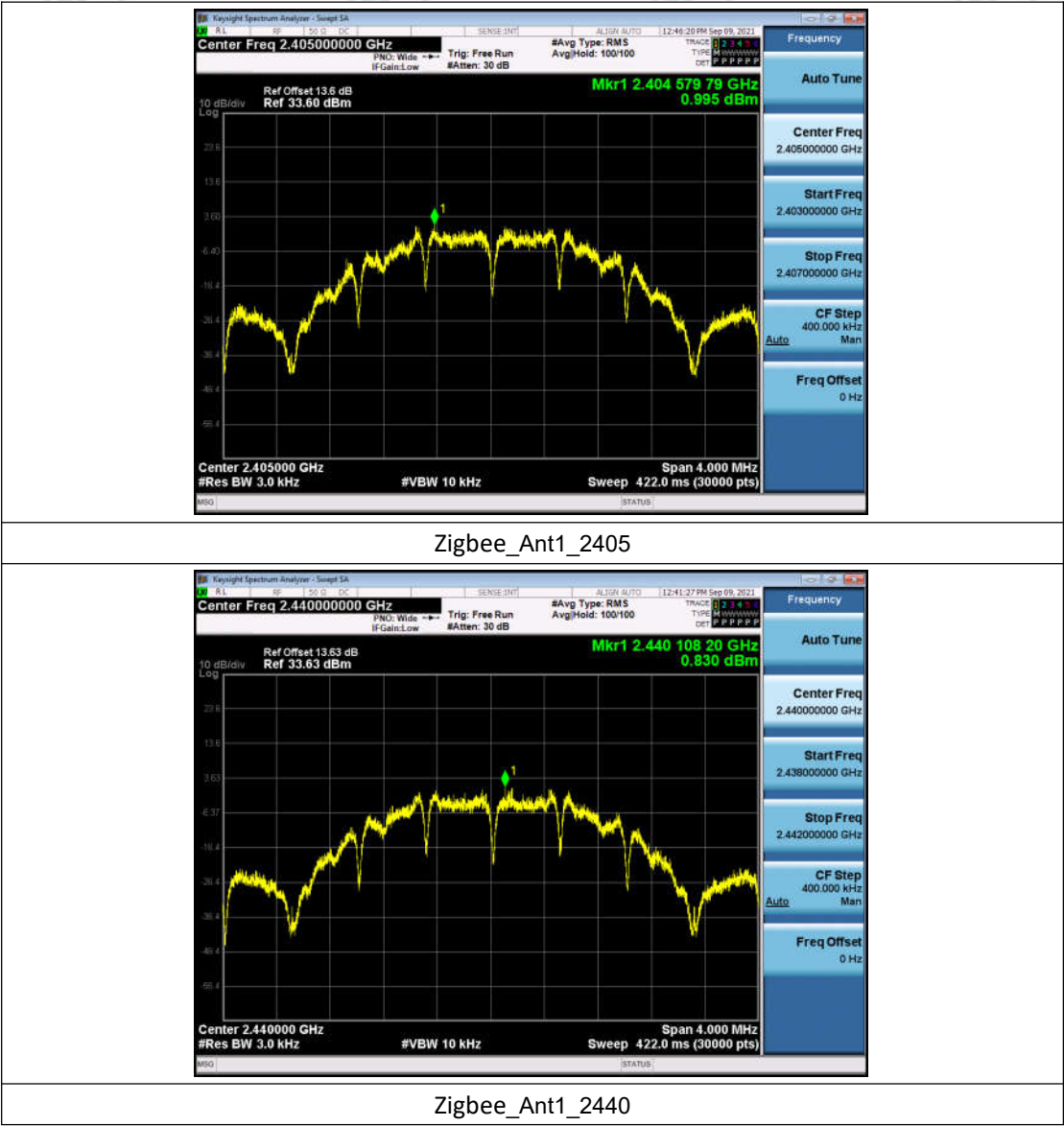


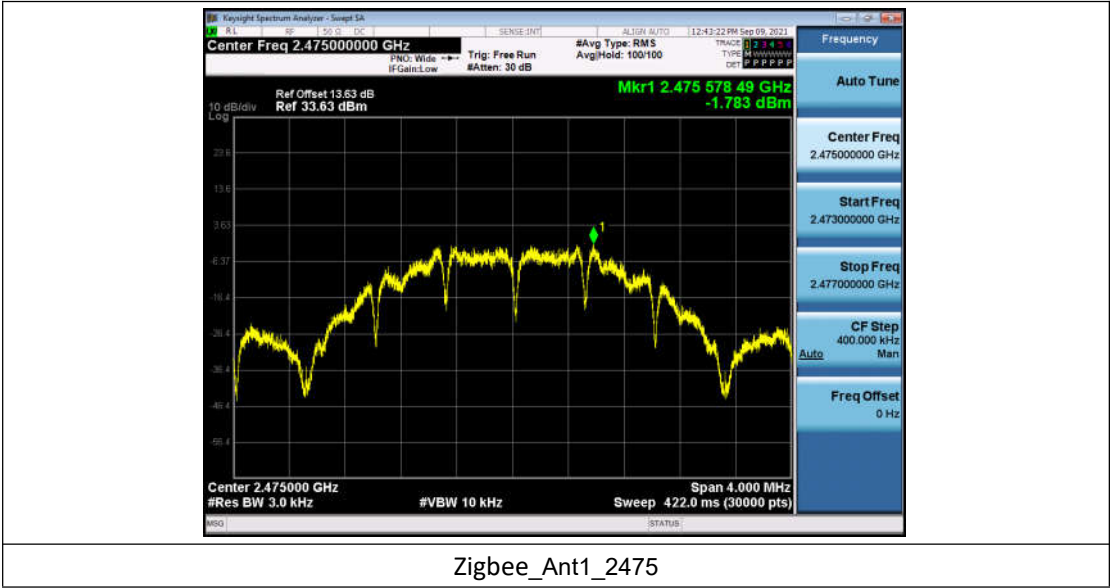
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
Zigbee	Ant1	2405	0.995	<=8	PASS
		2440	0.830	<=8	PASS
		2475	-1.783	<=8	PASS

Test Graphs



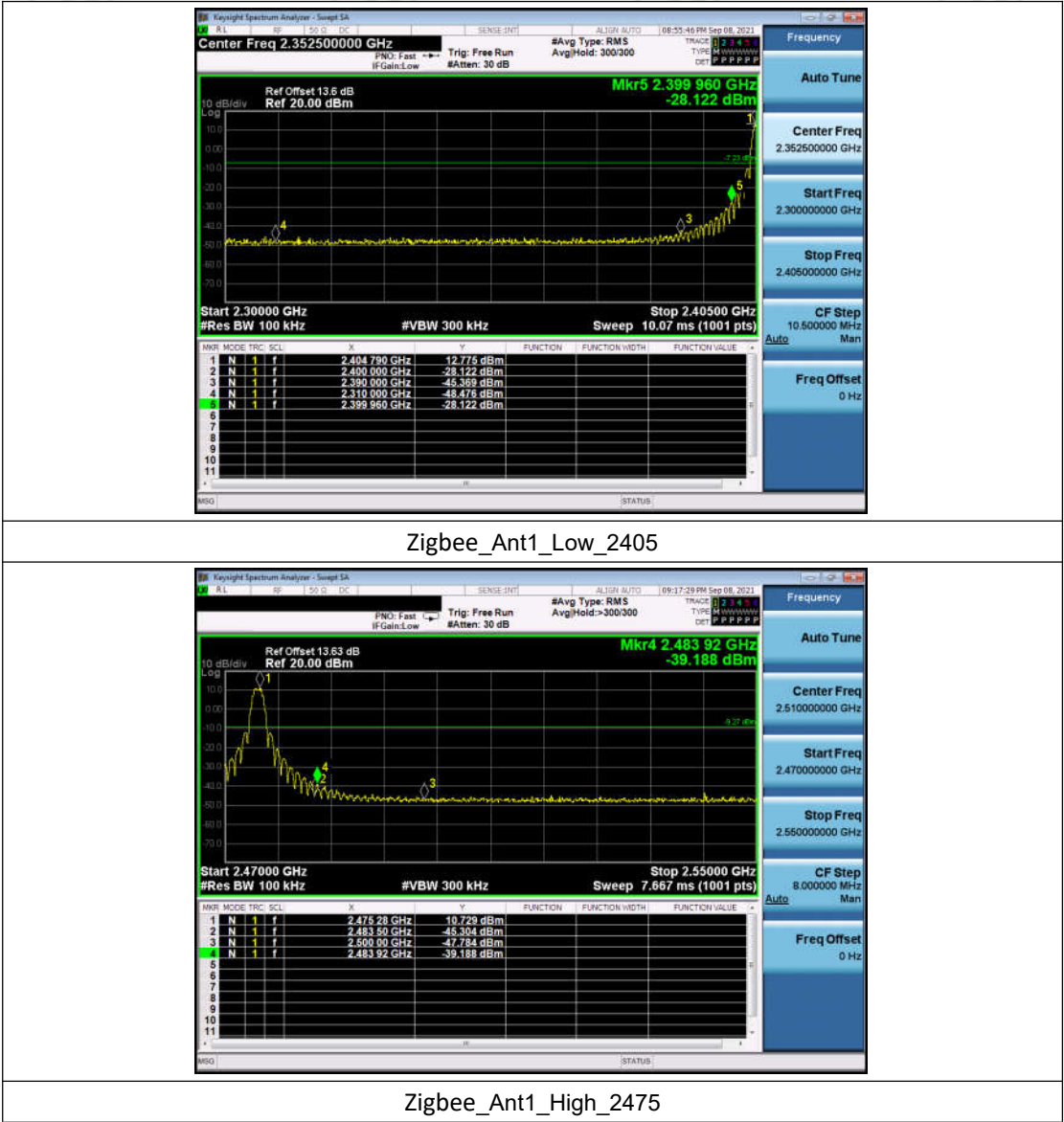


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
Zigbee	Ant1	Low	2405	12.775	-28.122	<=-7.225	PASS
		High	2475	10.729	-39.188	<=-9.271	PASS

Test Graphs

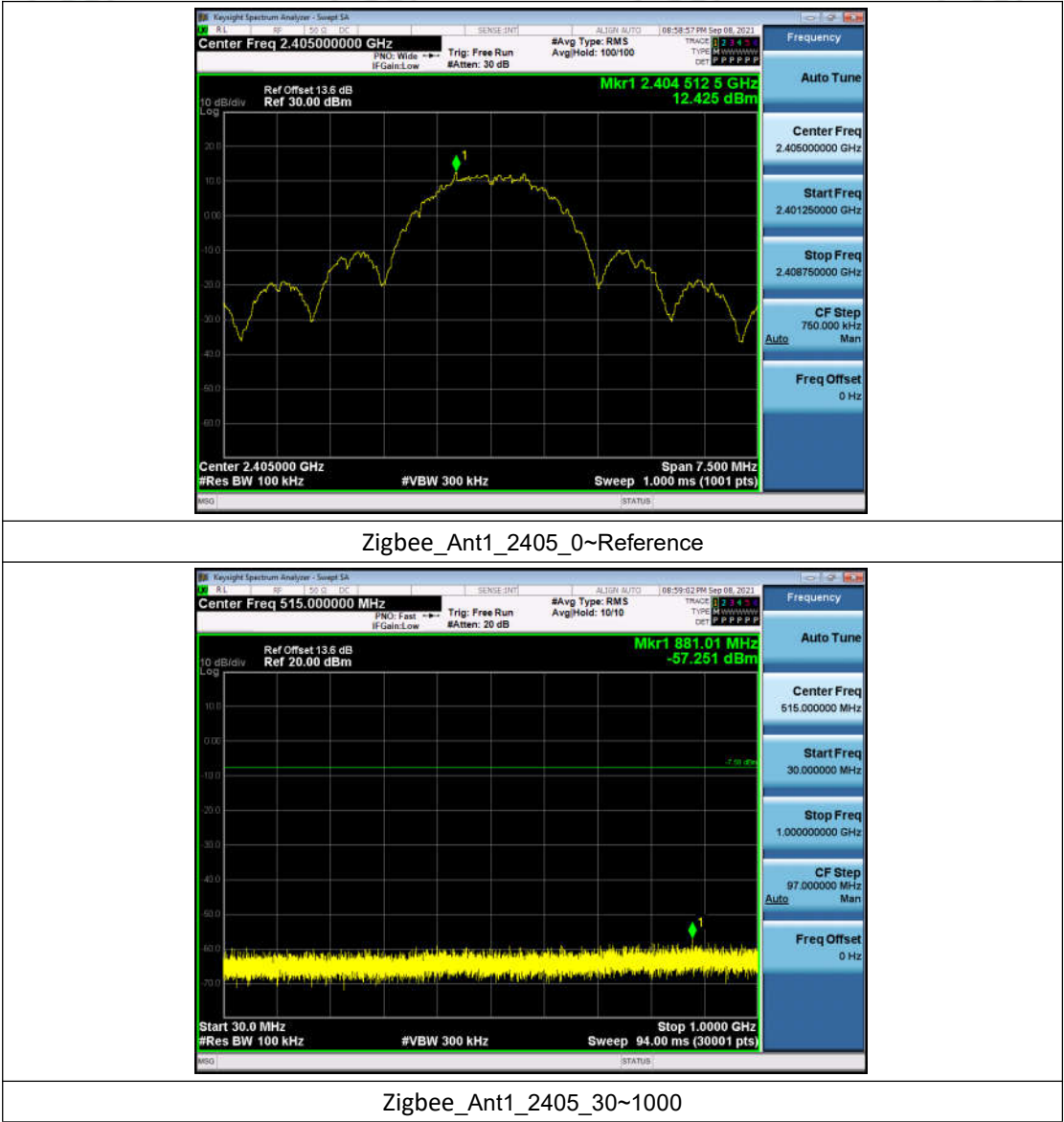


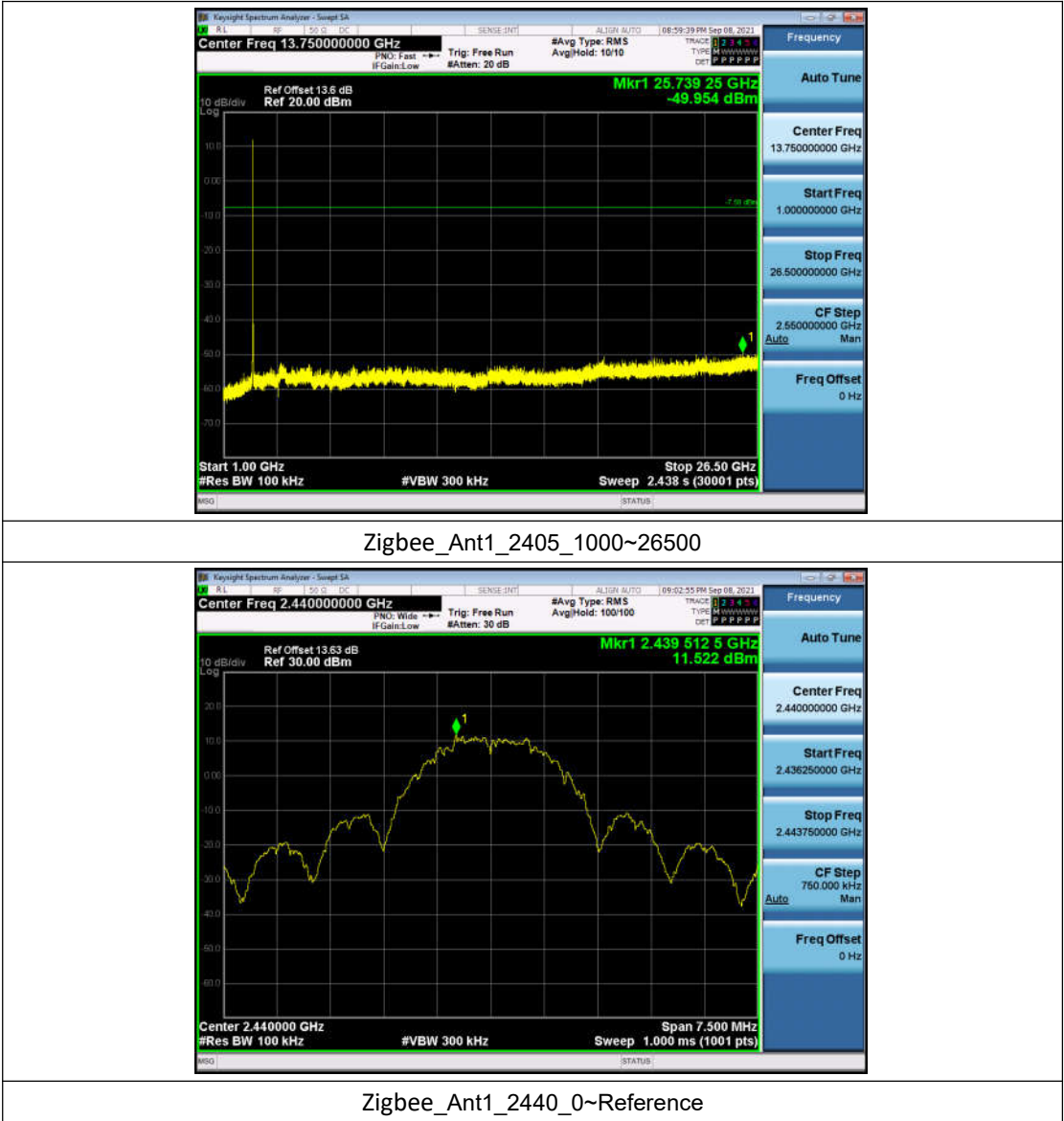
Appendix F: Conducted Spurious Emission

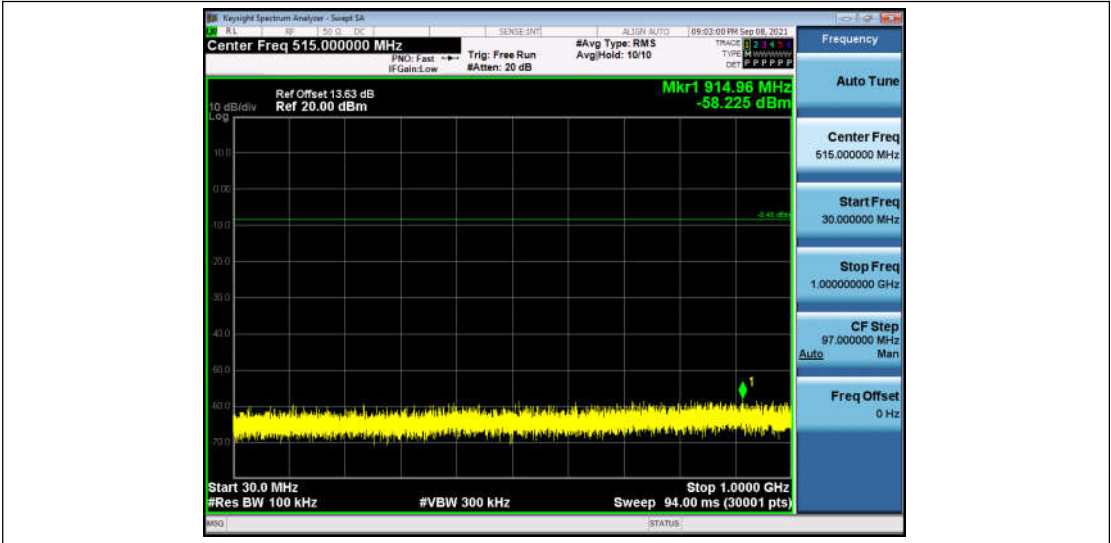
Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
Zigbee	Ant1	2405	Reference	12.425	12.425	---	PASS
			30~1000	30~1000	-57.251	<=-7.575	PASS
			1000~26500	1000~26500	-49.954	<=-7.575	PASS
		2440	Reference	11.522	11.522	---	PASS
			30~1000	30~1000	-58.225	<=-8.478	PASS
			1000~26500	1000~26500	-49.450	<=-8.478	PASS
		2475	Reference	10.363	10.363	---	PASS
			30~1000	30~1000	-57.361	<=-9.637	PASS
			1000~26500	1000~26500	-49.060	<=-9.637	PASS

Test Graphs



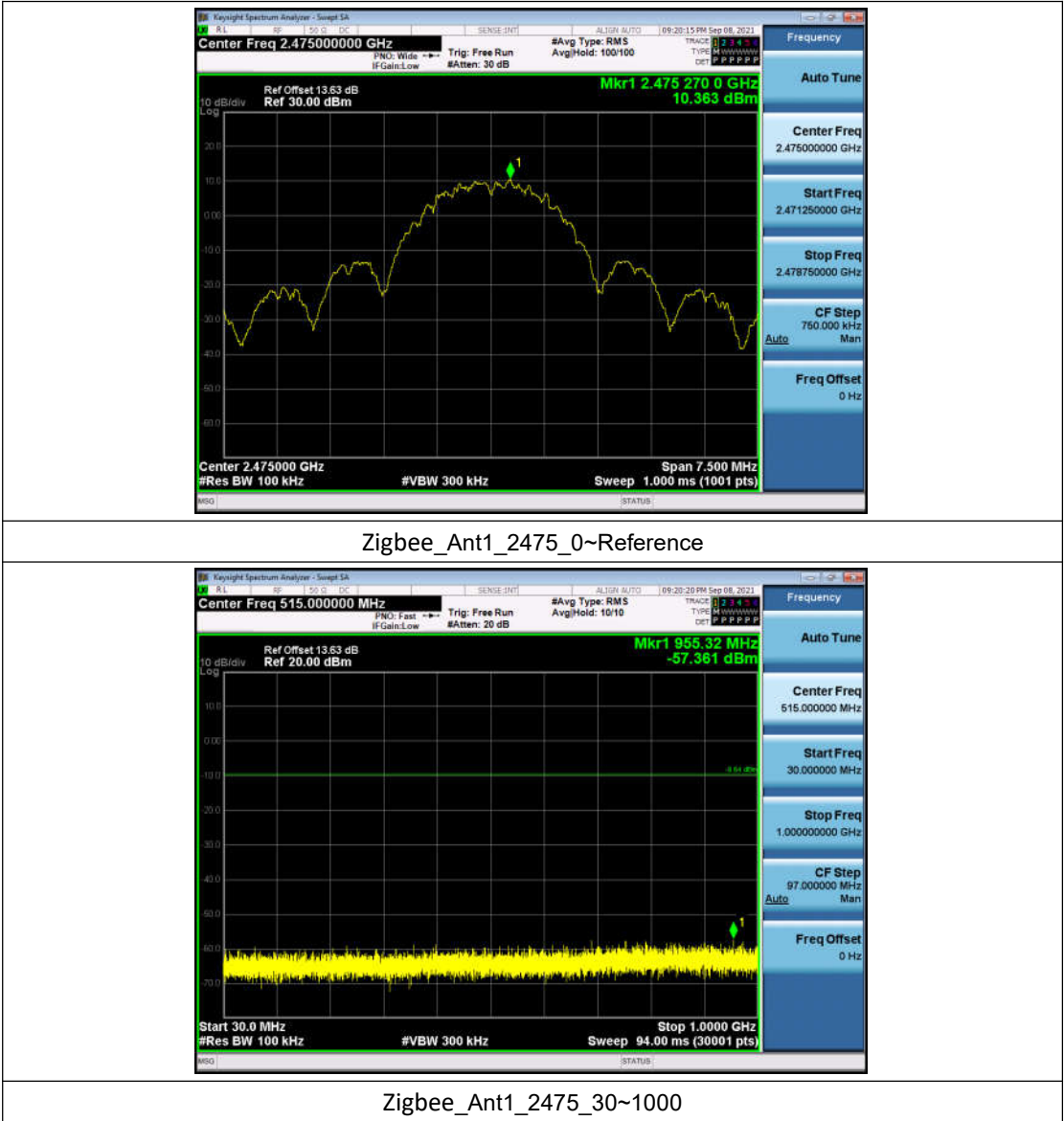


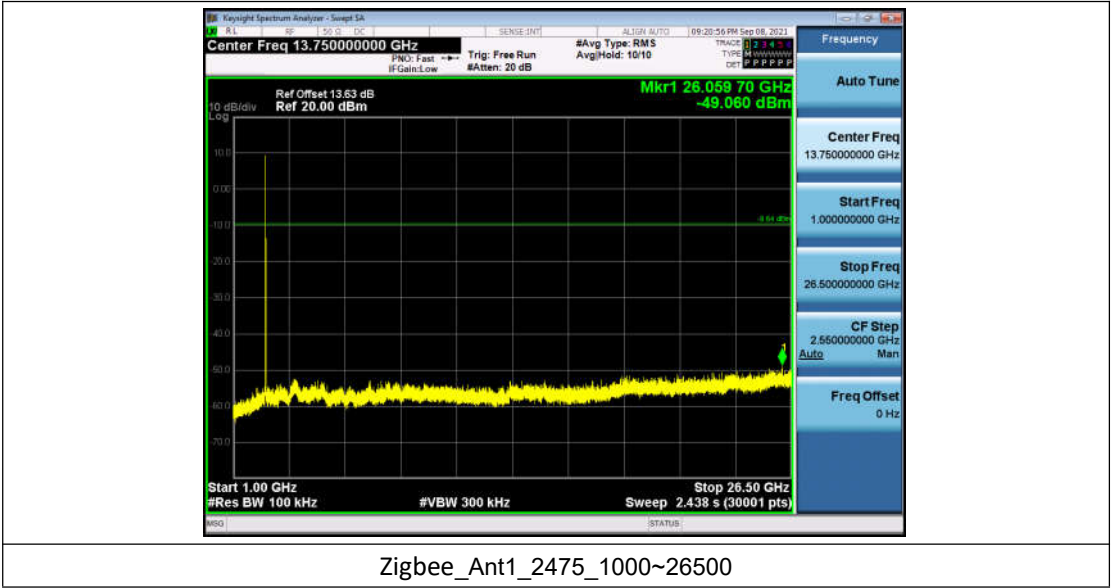


Zigbee_Ant1_2440_30~1000



Zigbee_Ant1_2440_1000~26500



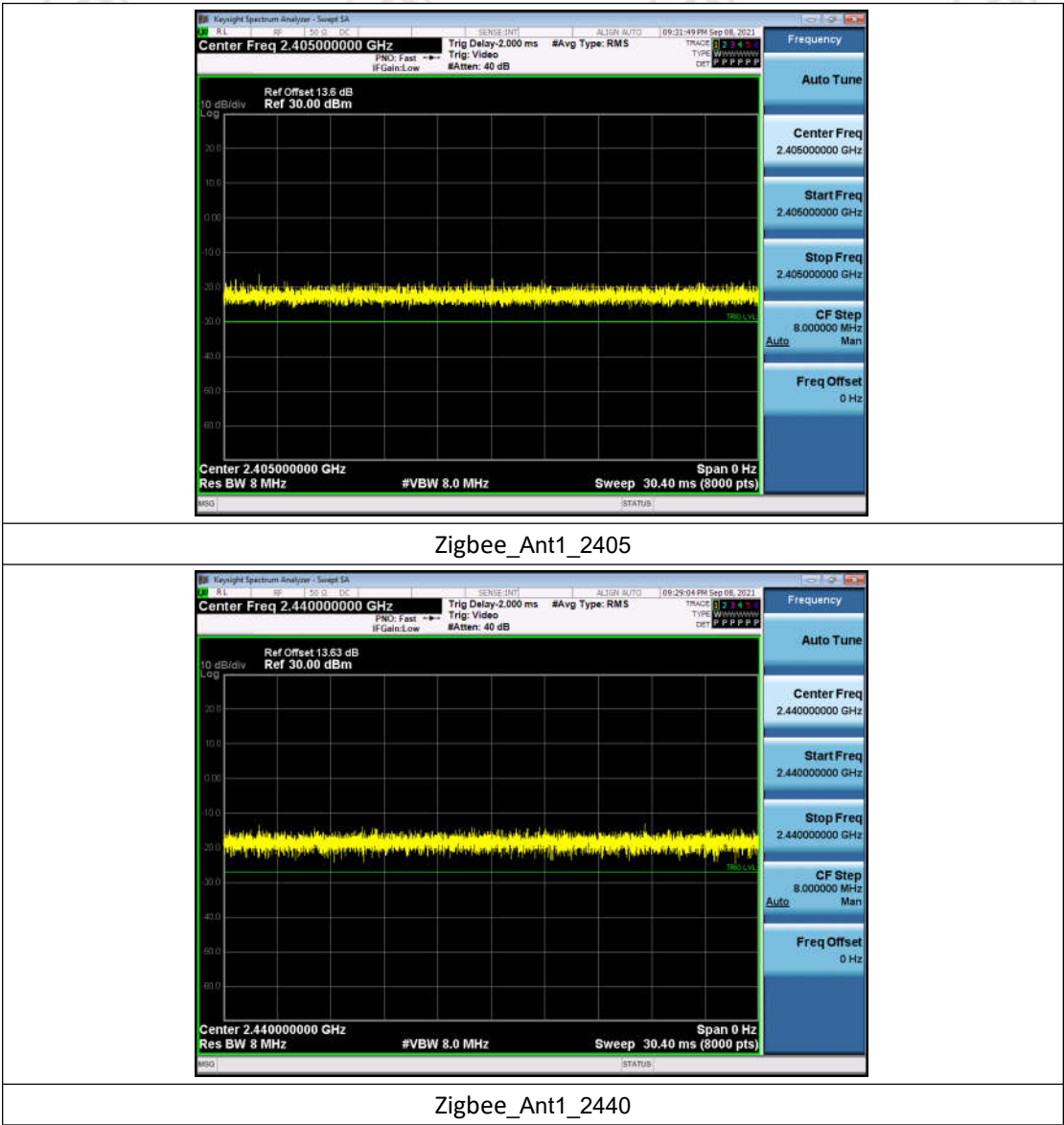


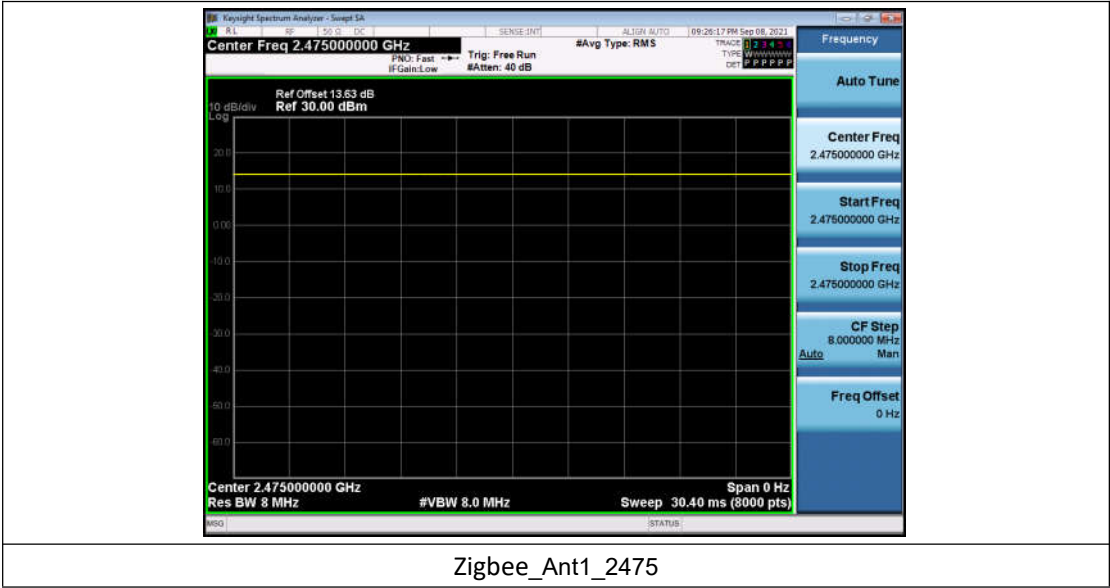
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
Zigbee	Ant1	2405	30.40	30.40	100	---	PASS
		2440	30.40	30.40	100	---	PASS
		2475	30.40	30.40	100	---	PASS

Test Graphs





*** End of Report ***