

Appendix Test Data

Report No.:	18220WC30259201	Test Sample No.:	1-2-2
Start Test Date:	2023.12.20	Finish Test Date:	2023.12.23
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	23.7℃	Relative Humidity:	43%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

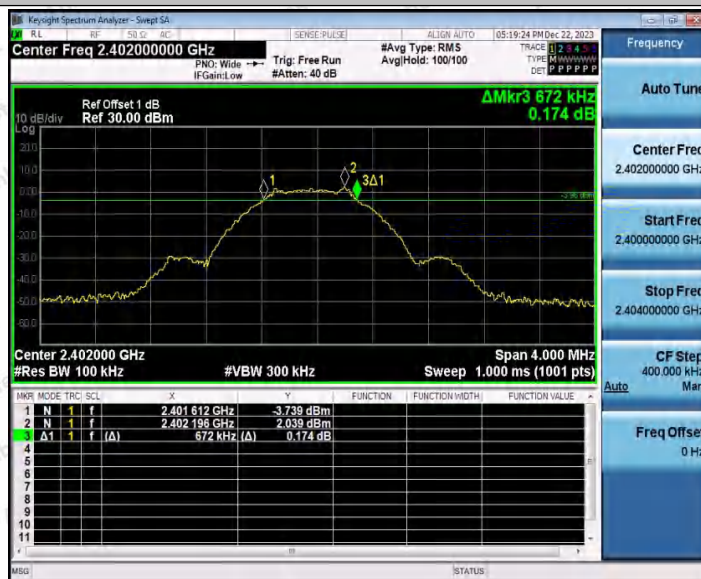
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.672	2401.612	2402.284	0.5	PASS
		2440	0.676	2439.620	2440.296	0.5	PASS
		2480	0.720	2479.588	2480.308	0.5	PASS
BLE_2M	Ant1	2402	1.460	2401.236	2402.696	0.5	PASS
		2440	1.332	2439.276	2440.608	0.5	PASS
		2480	1.336	2479.304	2480.640	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0210	2401.4445	2402.4655
		2440	1.0214	2439.4320	2440.4534
		2480	1.0294	2479.4387	2480.4681
BLE_2M	Ant1	2402	2.0218	2400.9406	2402.9624
		2440	2.0397	2438.9253	2440.9650
		2480	2.0622	2478.9298	2480.9920



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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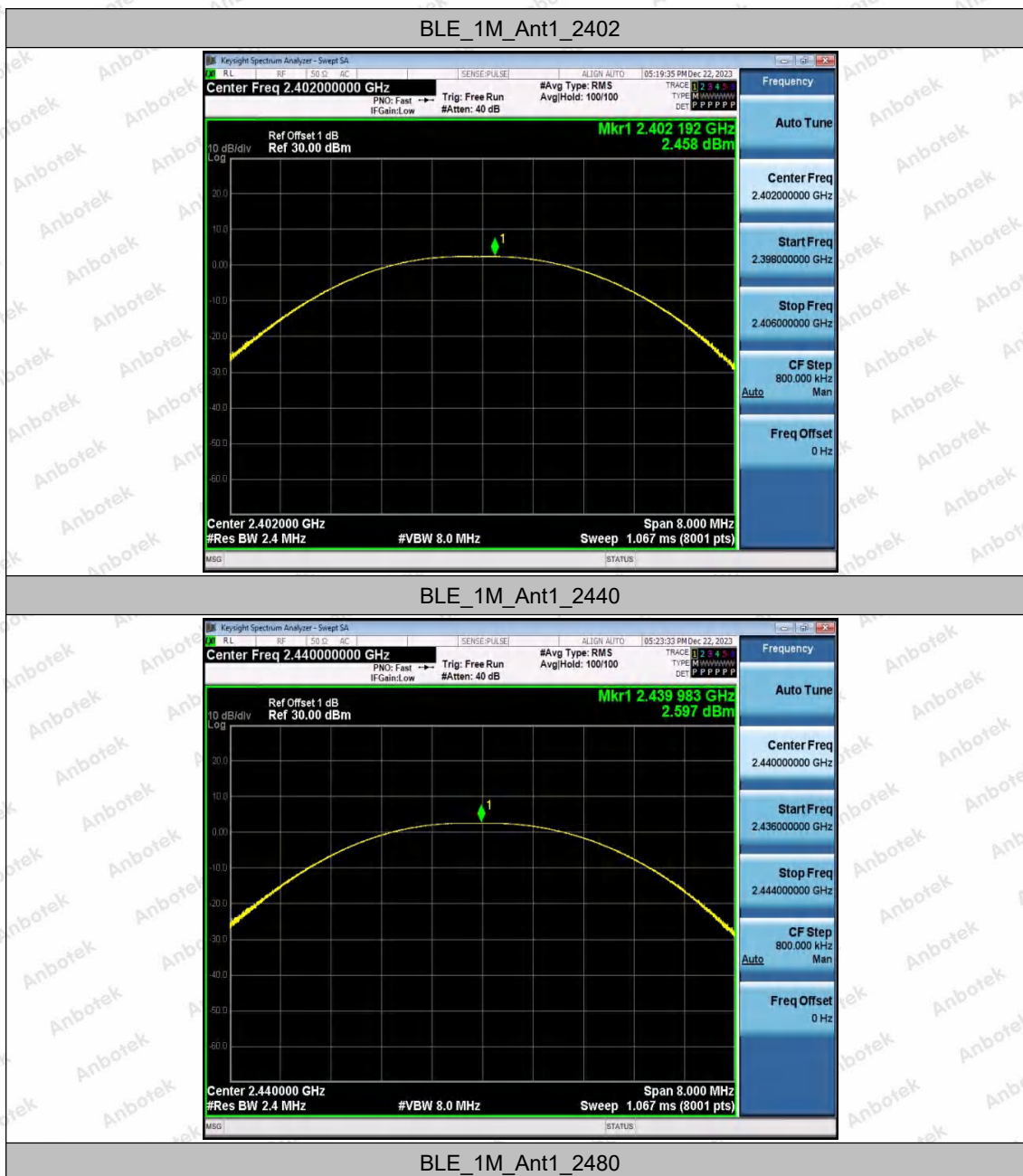
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.46	≤30	PASS
		2440	2.60	≤30	PASS
		2480	2.46	≤30	PASS
BLE_2M	Ant1	2402	2.29	≤30	PASS
		2440	2.38	≤30	PASS
		2480	2.28	≤30	PASS



Test Graphs Peak



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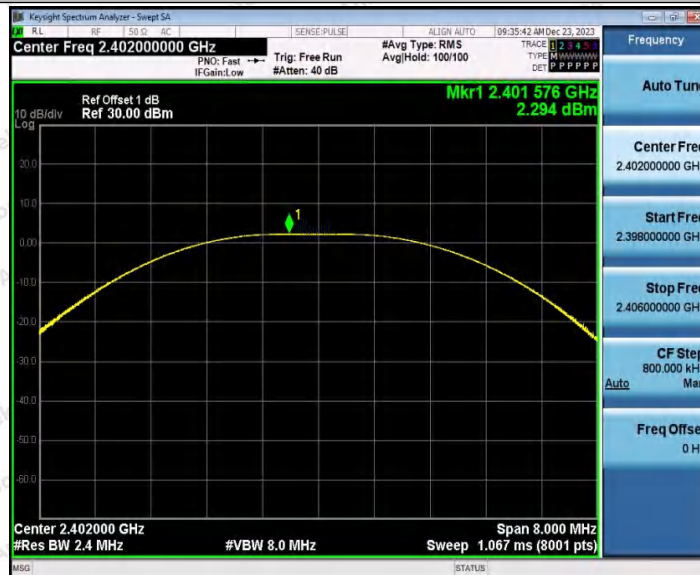
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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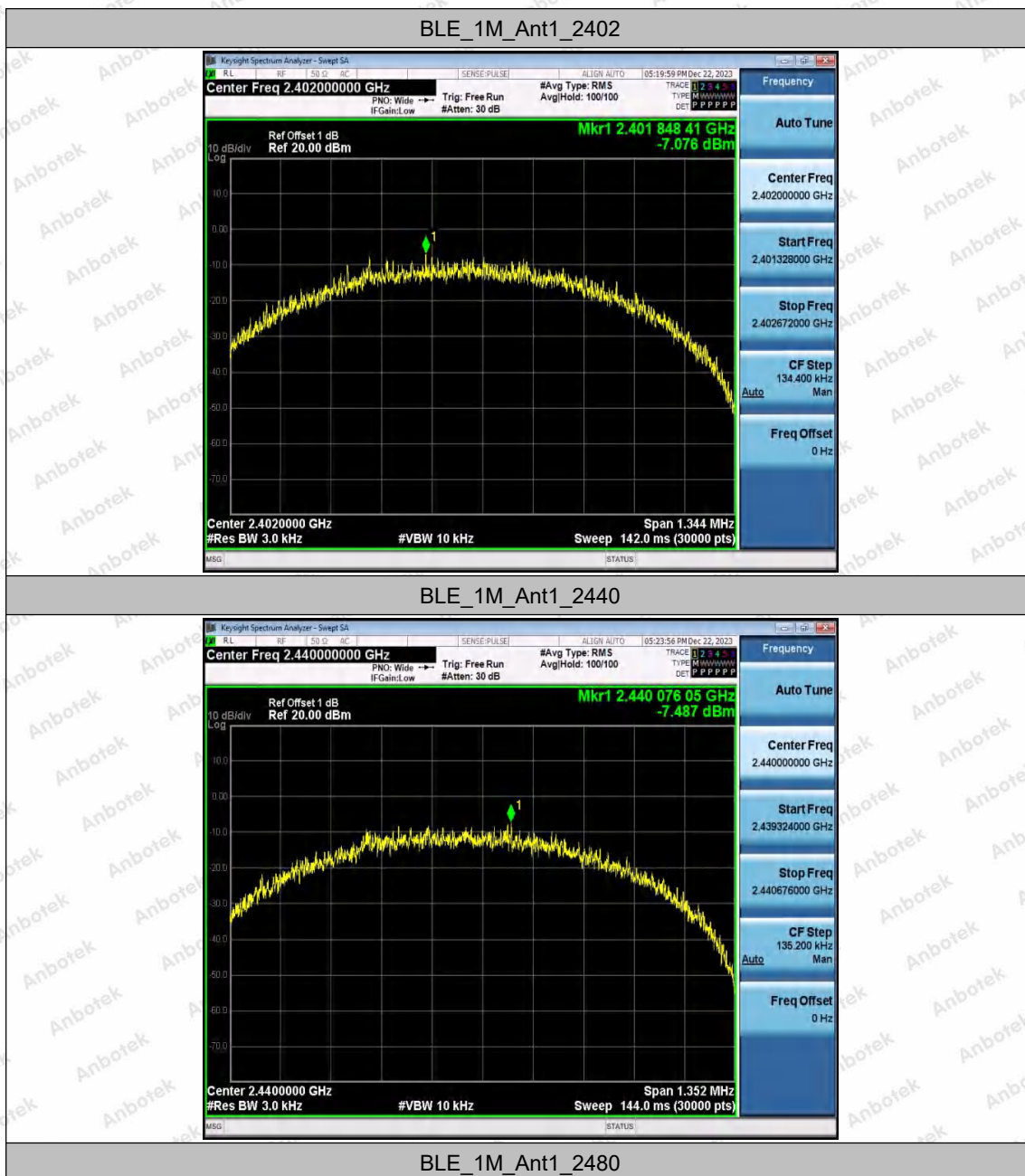
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.08	≤8.00	PASS
		2440	-7.49	≤8.00	PASS
		2480	-7.40	≤8.00	PASS
BLE_2M	Ant1	2402	-10.57	≤8.00	PASS
		2440	-10.16	≤8.00	PASS
		2480	-9.97	≤8.00	PASS



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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Appendix E: Band edge measurements

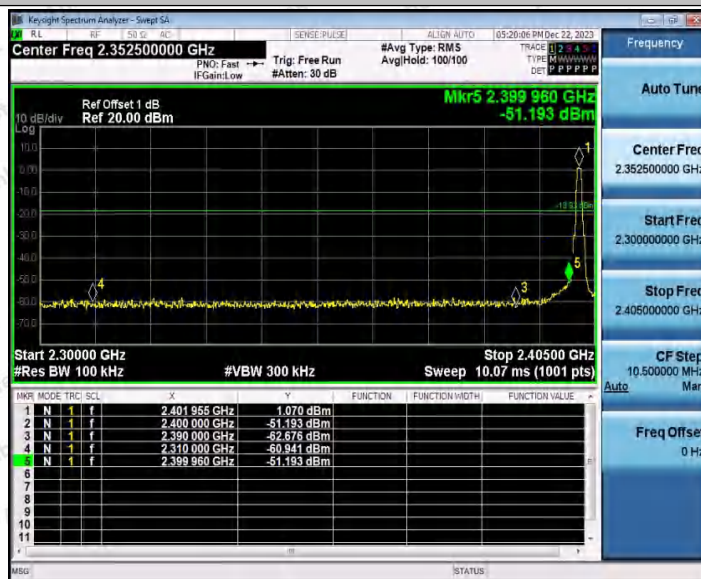
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.07	-51.19	≤-18.93	PASS
		High	2480	1.99	-57.59	≤-18.01	PASS
BLE_2M	Ant1	Low	2402	-0.04	-31.58	≤-20.04	PASS
		High	2480	0.14	-56.23	≤-19.86	PASS

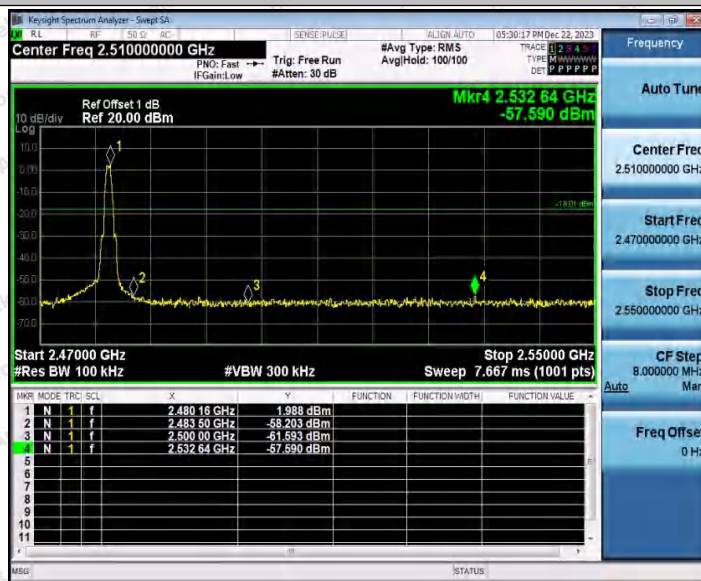


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

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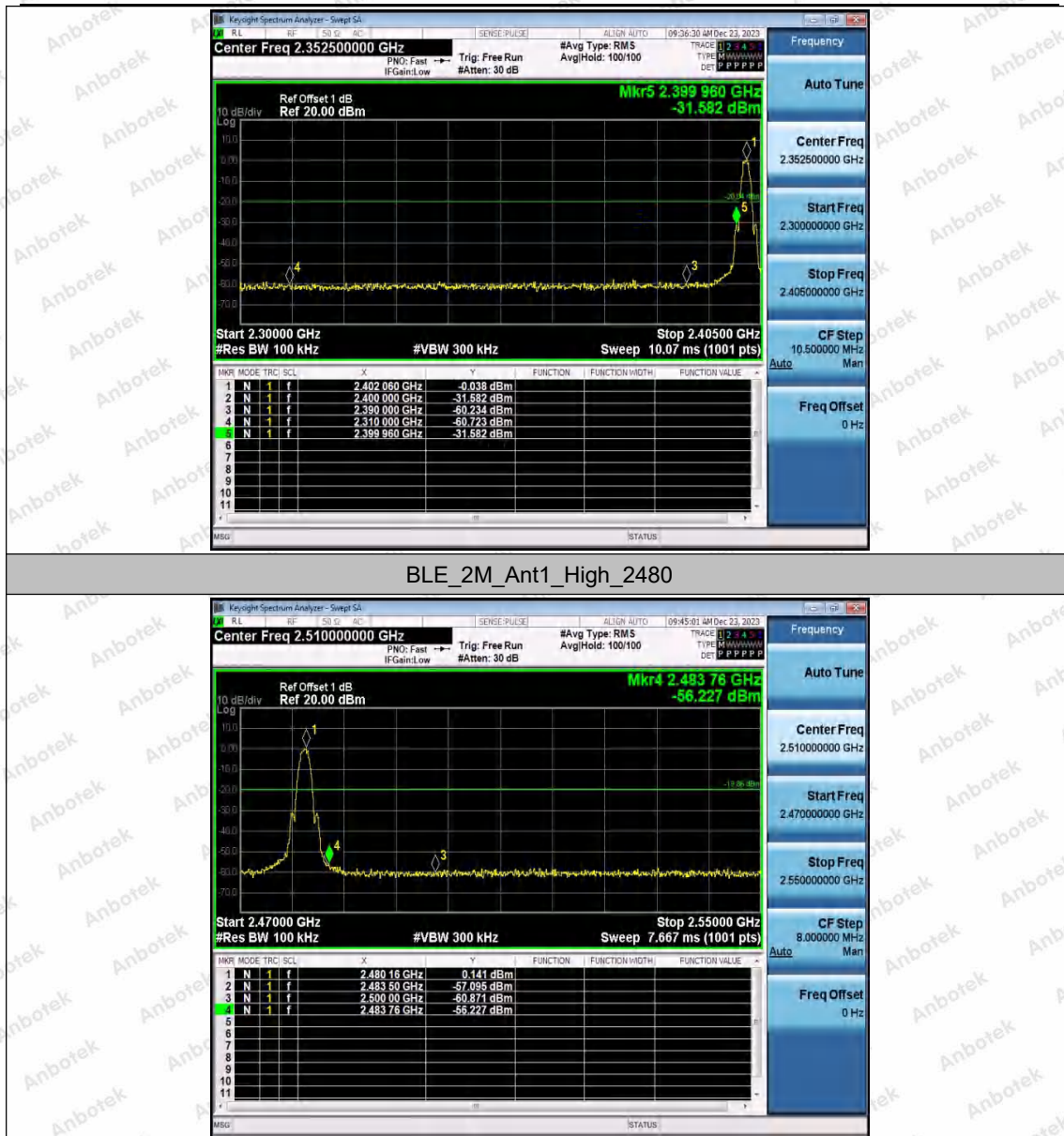


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Appendix F: Conducted Spurious Emission

Test Result

TestMod e	Antenn a	Frequency[MHz]	FreqRange [MHz]	RefLeve l [dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	2402	Reference	1.66	1.66	---	PASS
			30~1000	1.66	-69.97	≤-18.34	PASS
			1000~2650 0	1.66	-41.88	≤-18.34	PASS
		2440	Reference	1.41	1.41	---	PASS
			30~1000	1.41	-69.23	≤-18.59	PASS
			1000~2650 0	1.41	-39.57	≤-18.59	PASS
		2480	Reference	1.00	1.00	---	PASS
			30~1000	1.00	-69.88	≤-19	PASS
			1000~2650 0	1.00	-52.13	≤-19	PASS
BLE_2M	Ant1	2402	Reference	-0.14	-0.14	---	PASS
			30~1000	-0.14	-68.46	≤-20.14	PASS
			1000~2650 0	-0.14	-43.63	≤-20.14	PASS
		2440	Reference	-0.37	-0.37	---	PASS
			30~1000	-0.37	-68.79	≤-20.37	PASS
			1000~2650 0	-0.37	-41.06	≤-20.37	PASS
		2480	Reference	-1.17	-1.17	---	PASS
			30~1000	-1.17	-68.22	≤-21.17	PASS
			1000~2650 0	-1.17	-52.21	≤-21.17	PASS

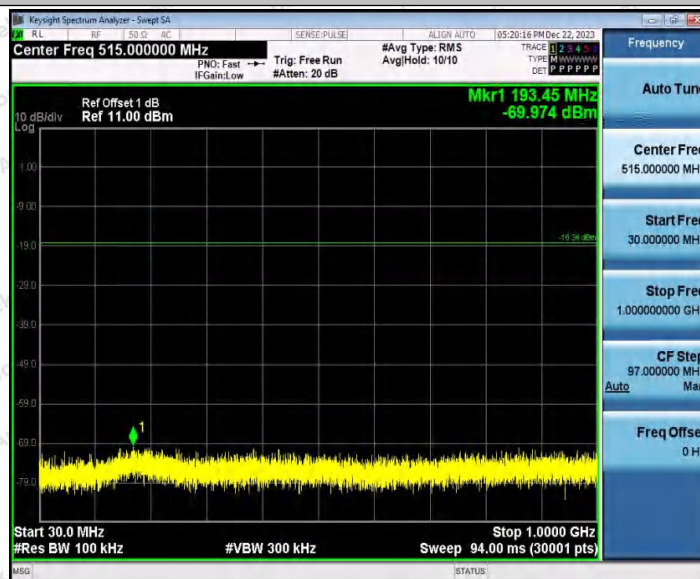


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

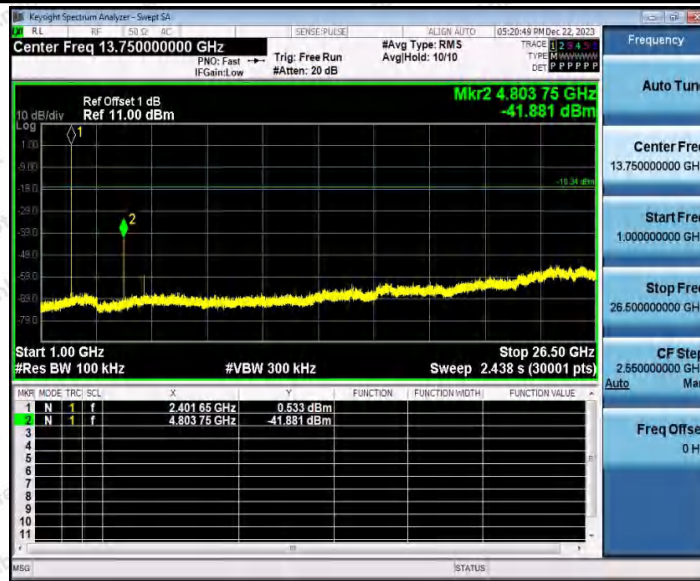
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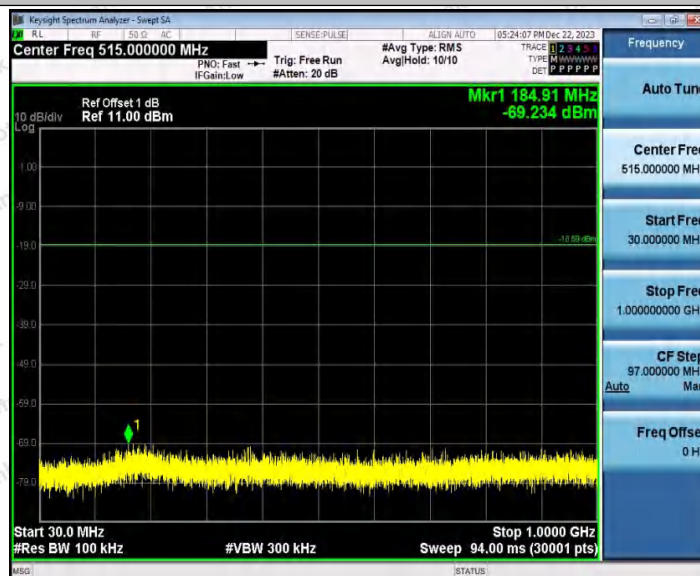




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



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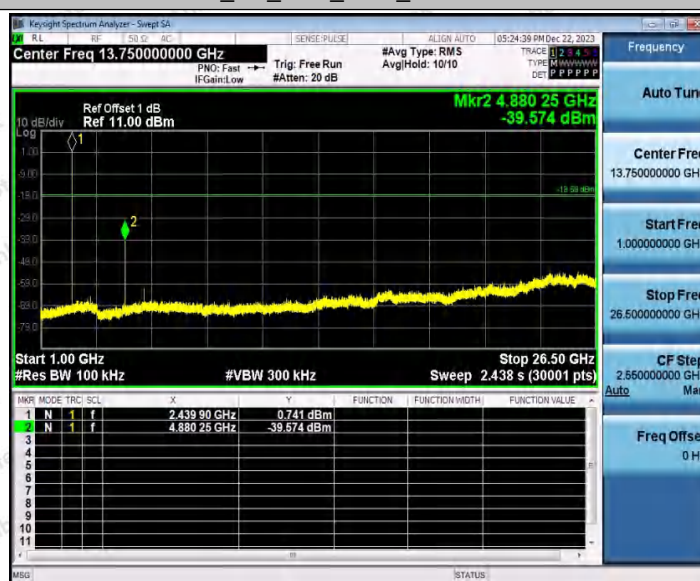
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

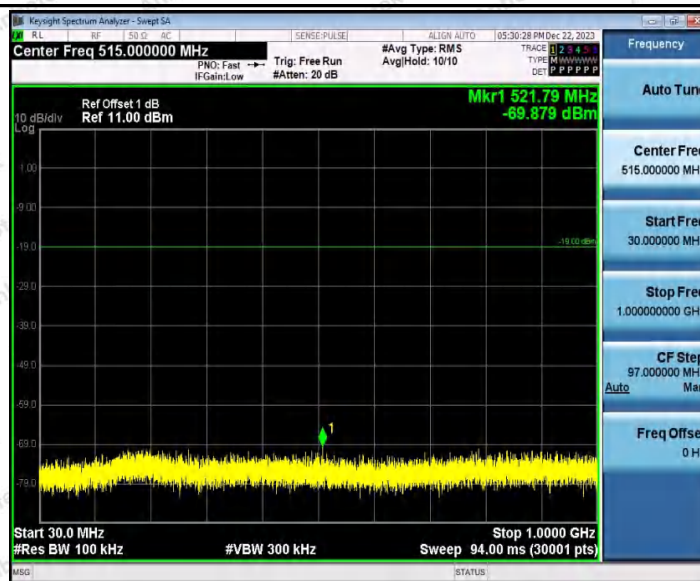
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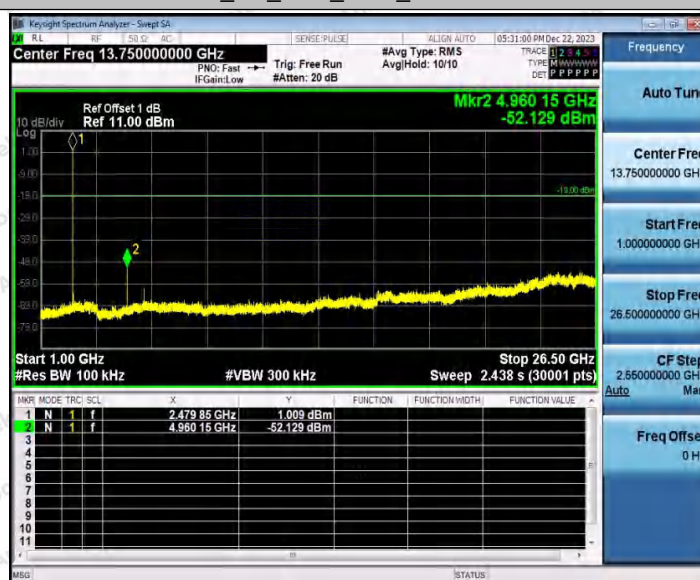


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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



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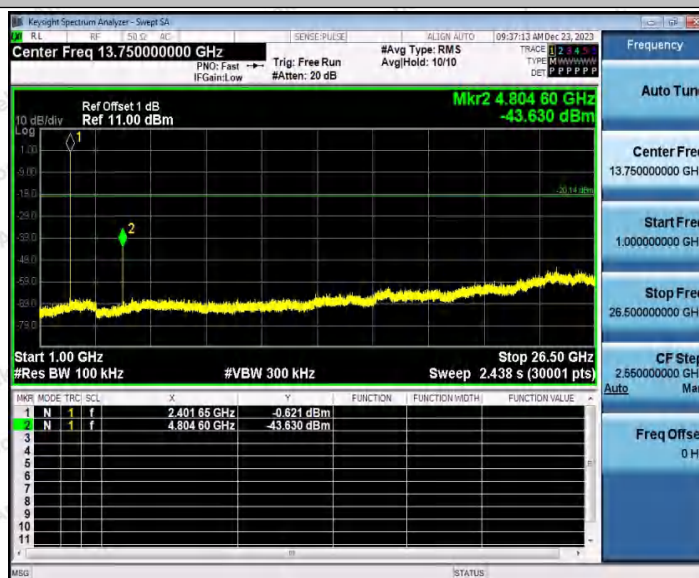
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BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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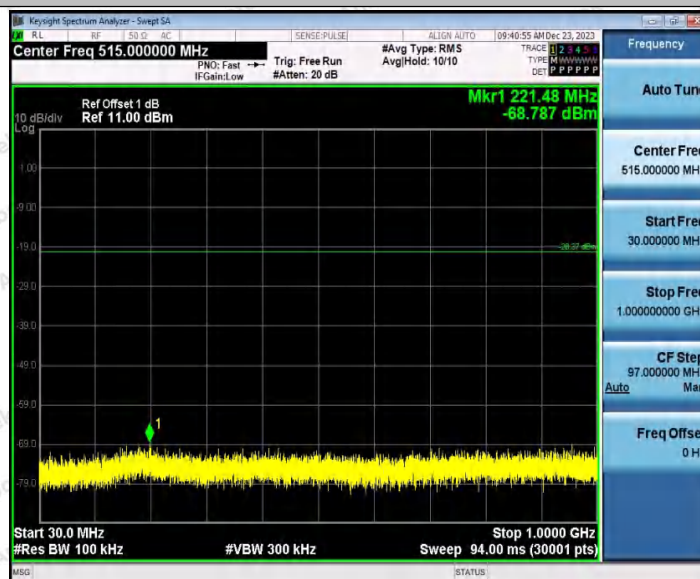


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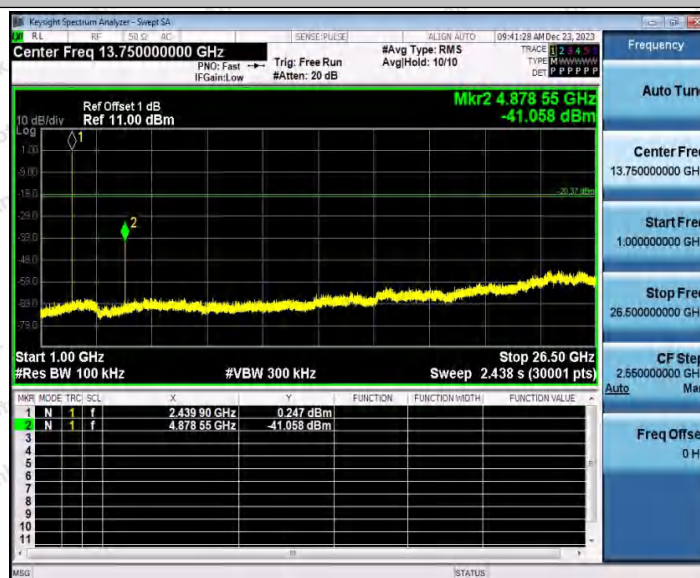




BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



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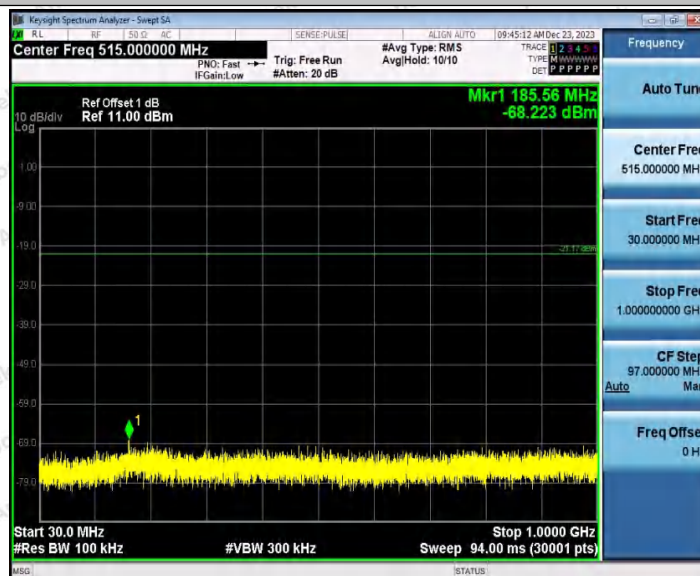
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500

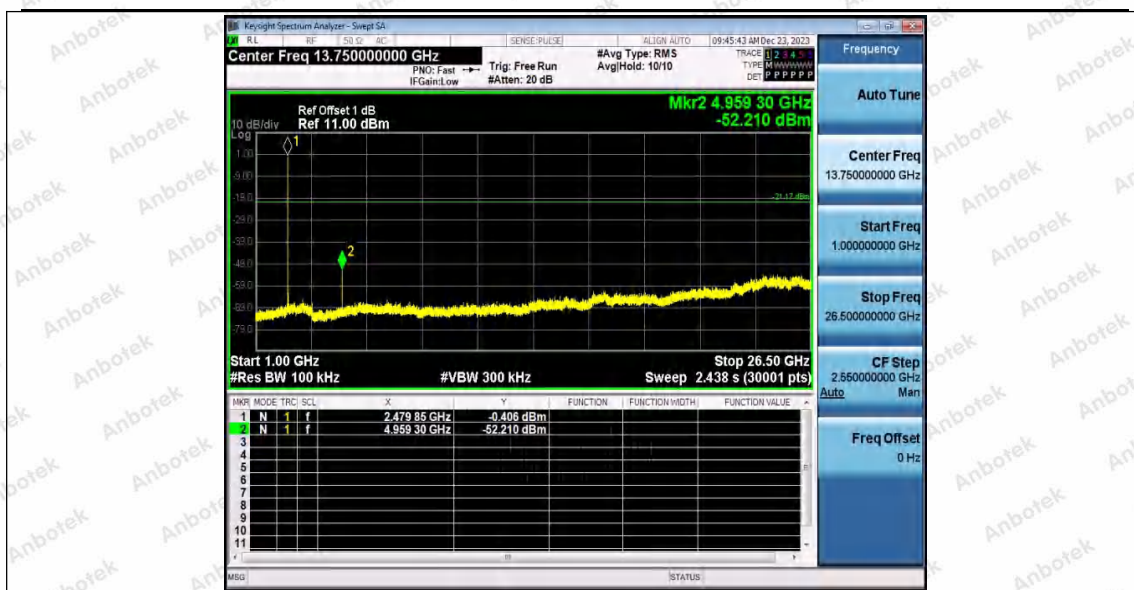
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	19.00	19.00	100	0.00
		2440	19.00	19.00	100	0.00
		2480	19.00	19.00	100	0.00
BLE_2M	Ant1	2402	19.00	19.00	100	0.00
		2440	19.00	19.00	100	0.00
		2480	19.00	19.00	100	0.00



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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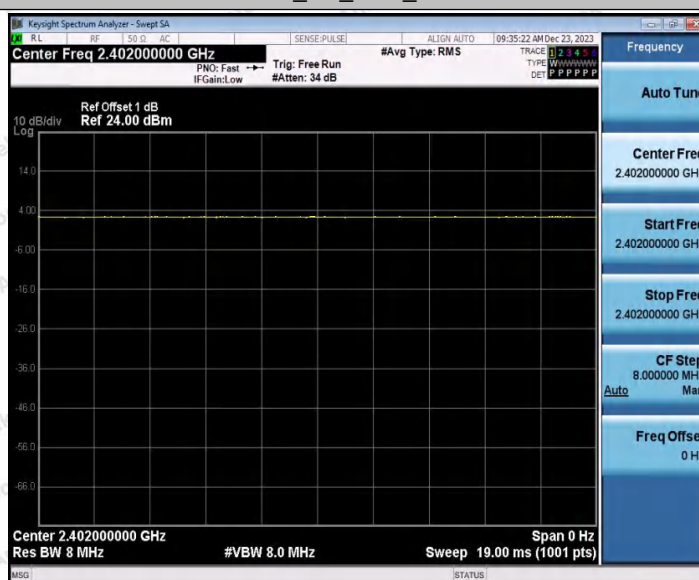


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BLE	2M	Ant1	2402
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BLE 2M Ant1 2440



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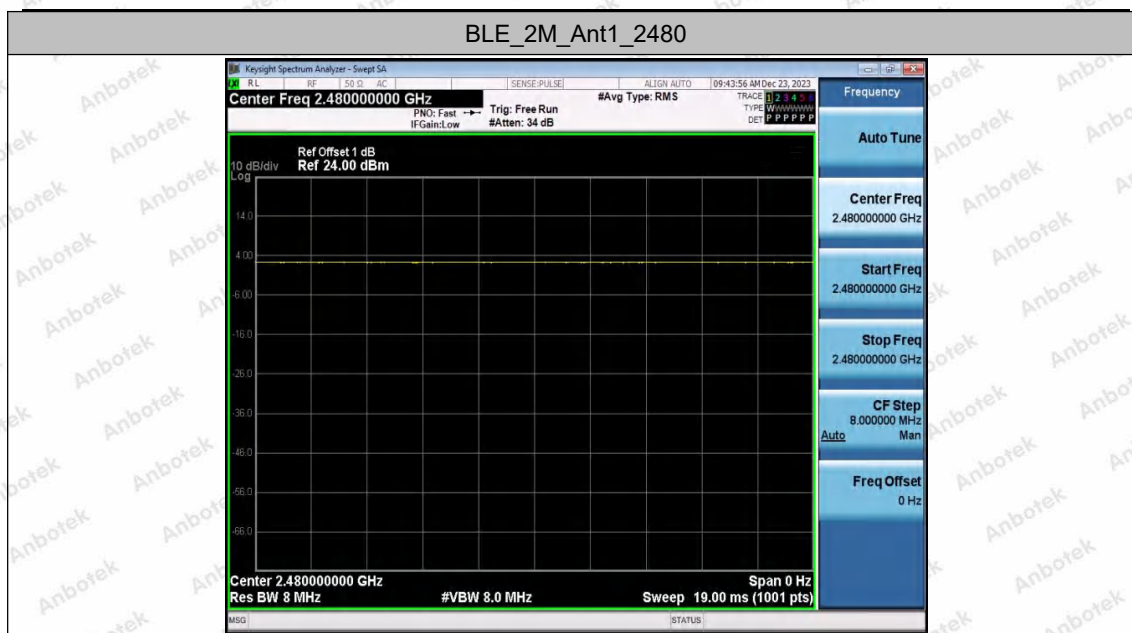
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