

Appendix Test Data

Report No.:	18220WC40060101	Test Sample No.:	1-2-2
Start Test Date:	2024.3.28	Finish Test Date:	2024.3.28
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	Relative Humidity:	48%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.700	2401.644	2402.344	0.5	PASS
		2440	0.676	2439.664	2440.340	0.5	PASS
		2480	0.696	2479.644	2480.340	0.5	PASS
BLE_2M	Ant1	2402	1.476	2401.252	2402.728	0.5	PASS
		2440	1.444	2439.264	2440.708	0.5	PASS
		2480	1.356	2479.340	2480.696	0.5	PASS

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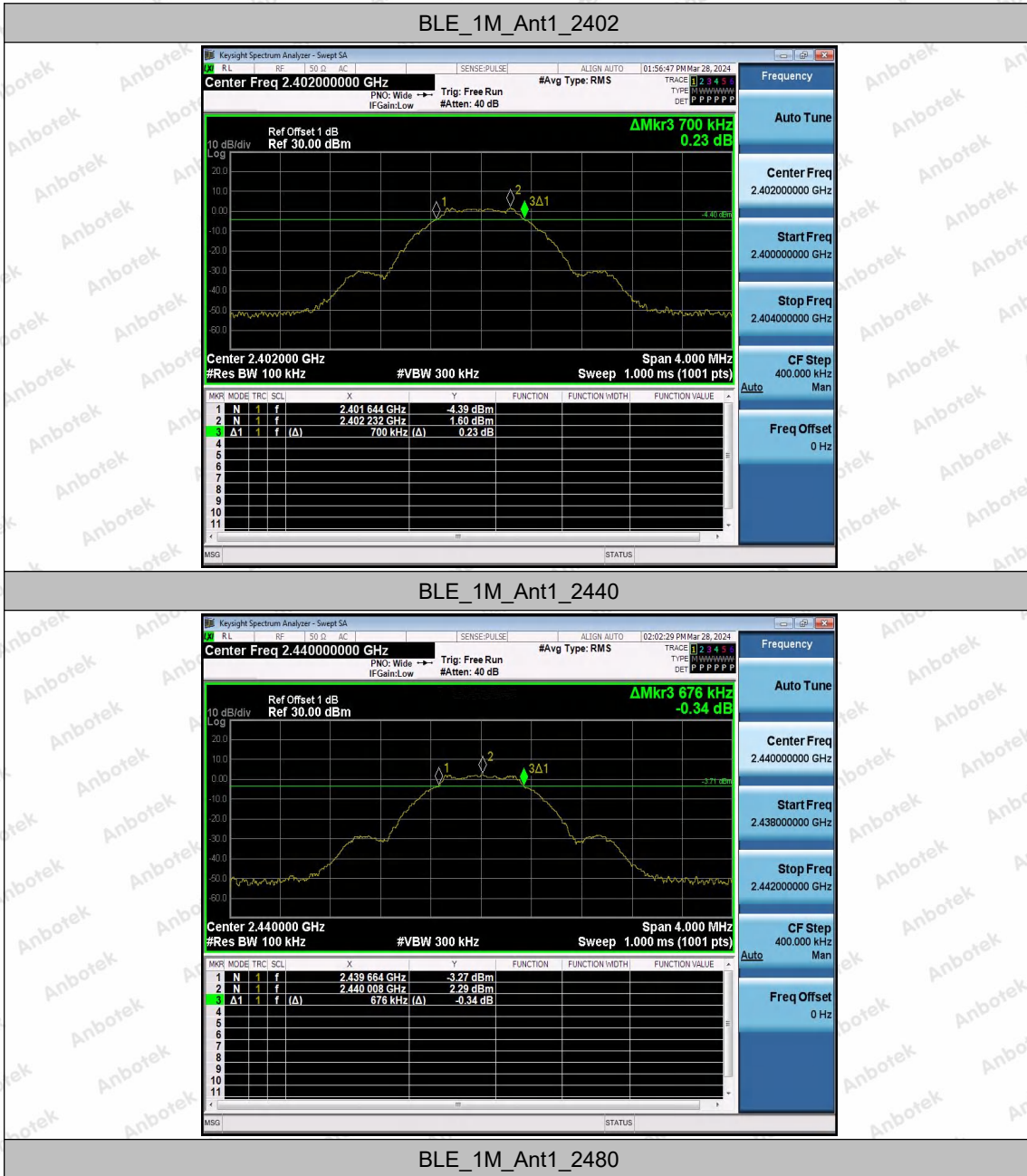
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Test Graphs



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BLE_2M_Ant1_2402



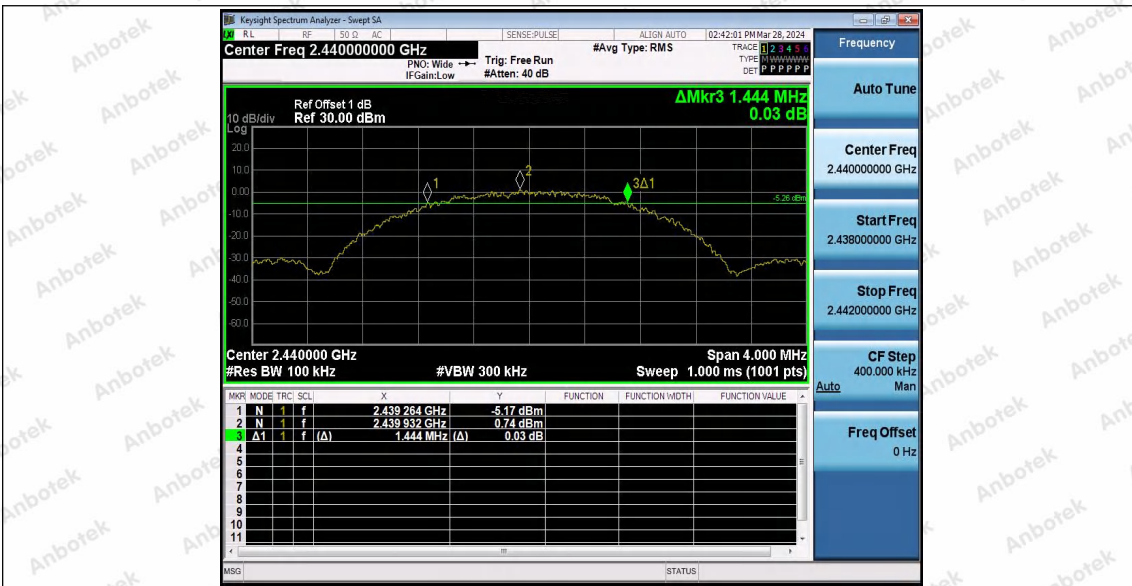
BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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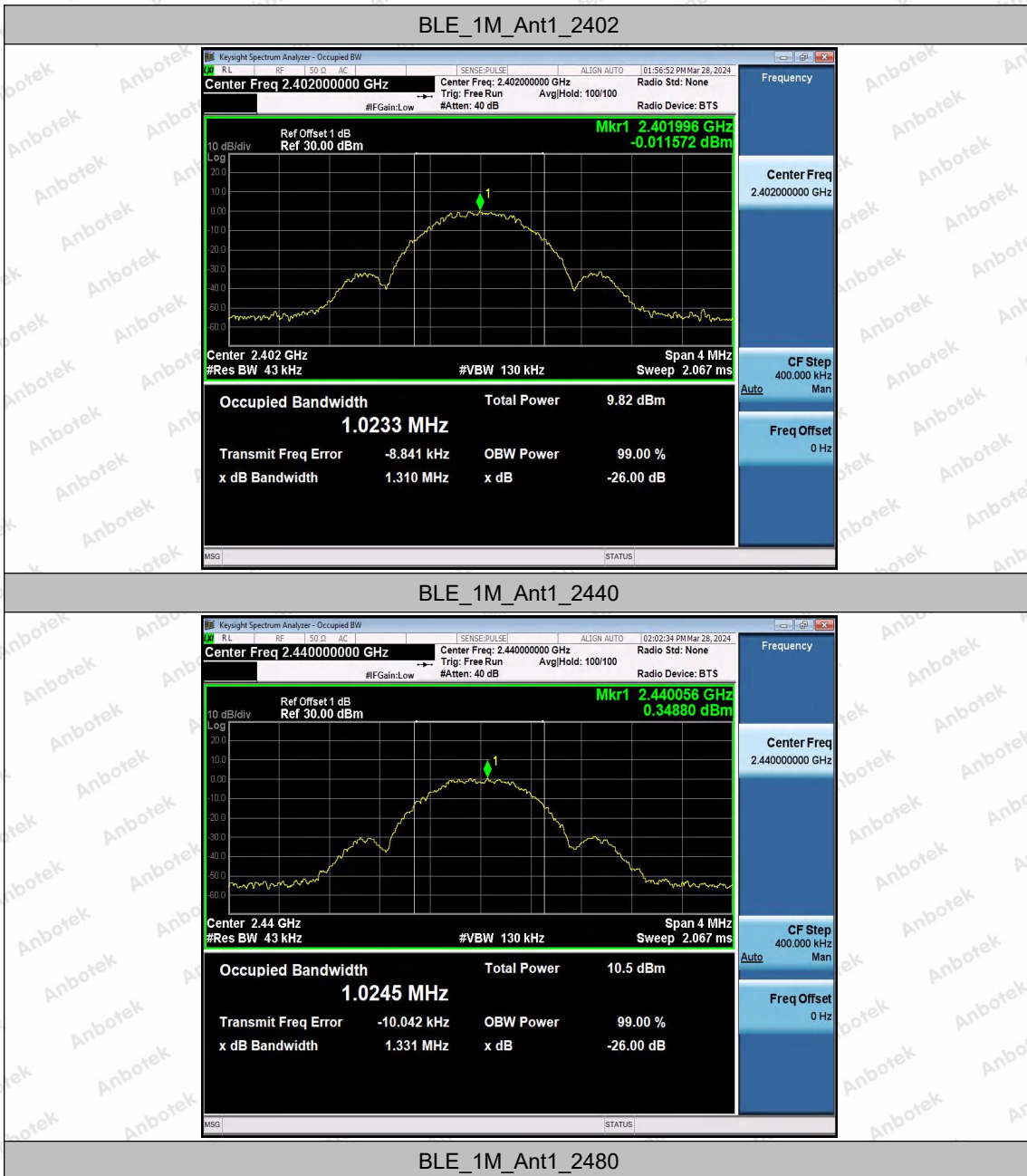
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0233	2401.4795	2402.5028	---	---
		2440	1.0245	2439.4777	2440.5022	---	---
		2480	1.0215	2479.4881	2480.5096	---	---
BLE_2M	Ant1	2402	2.0723	2400.9650	2403.0373	---	---
		2440	2.0606	2438.9680	2441.0286	---	---
		2480	2.0860	2478.9439	2481.0299	---	---



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.53	≤30	PASS
		2440	3.17	≤30	PASS
		2480	3.92	≤30	PASS
BLE_2M	Ant1	2402	2.55	≤30	PASS
		2440	3.18	≤30	PASS
		2480	3.93	≤30	PASS

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Test Graphs Peak



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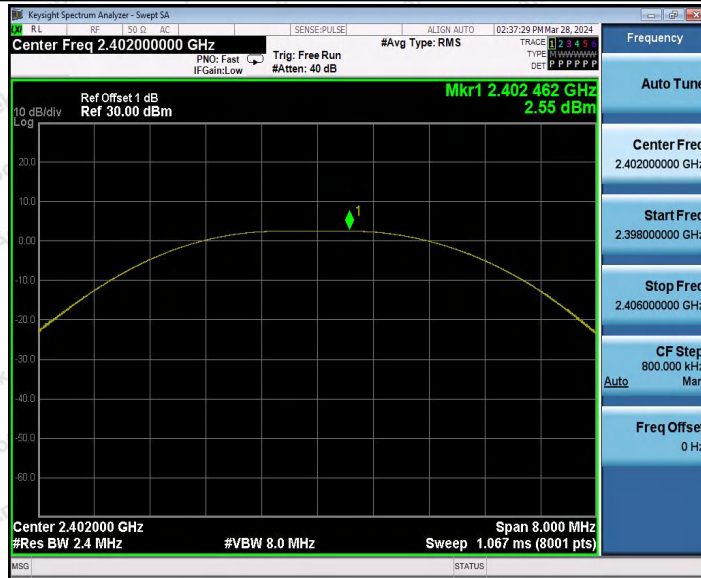
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BLE_2M_Ant1_2402



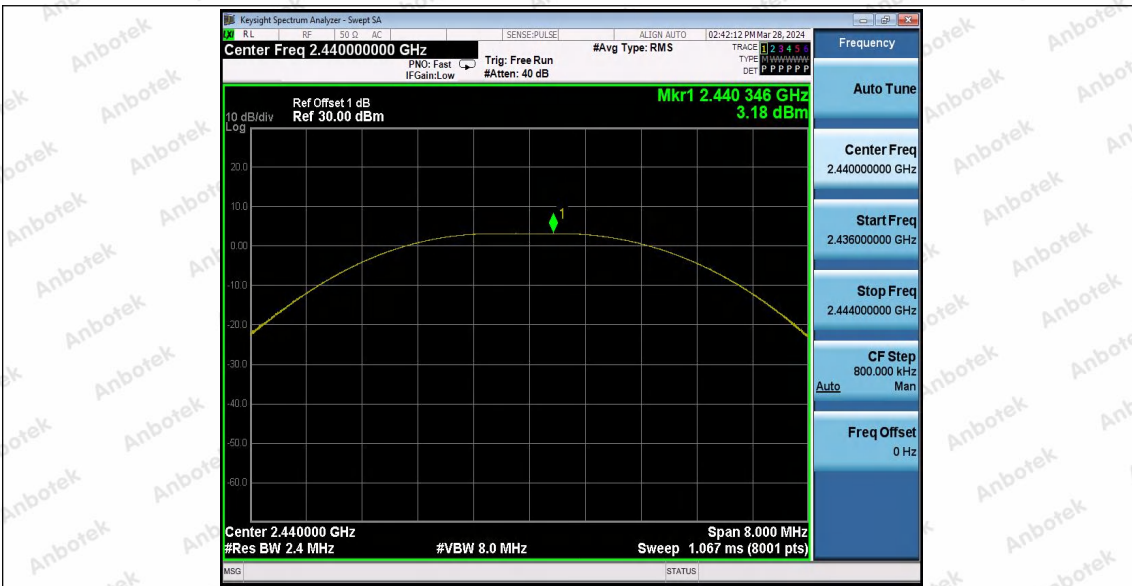
BLE_2M_Ant1_2440

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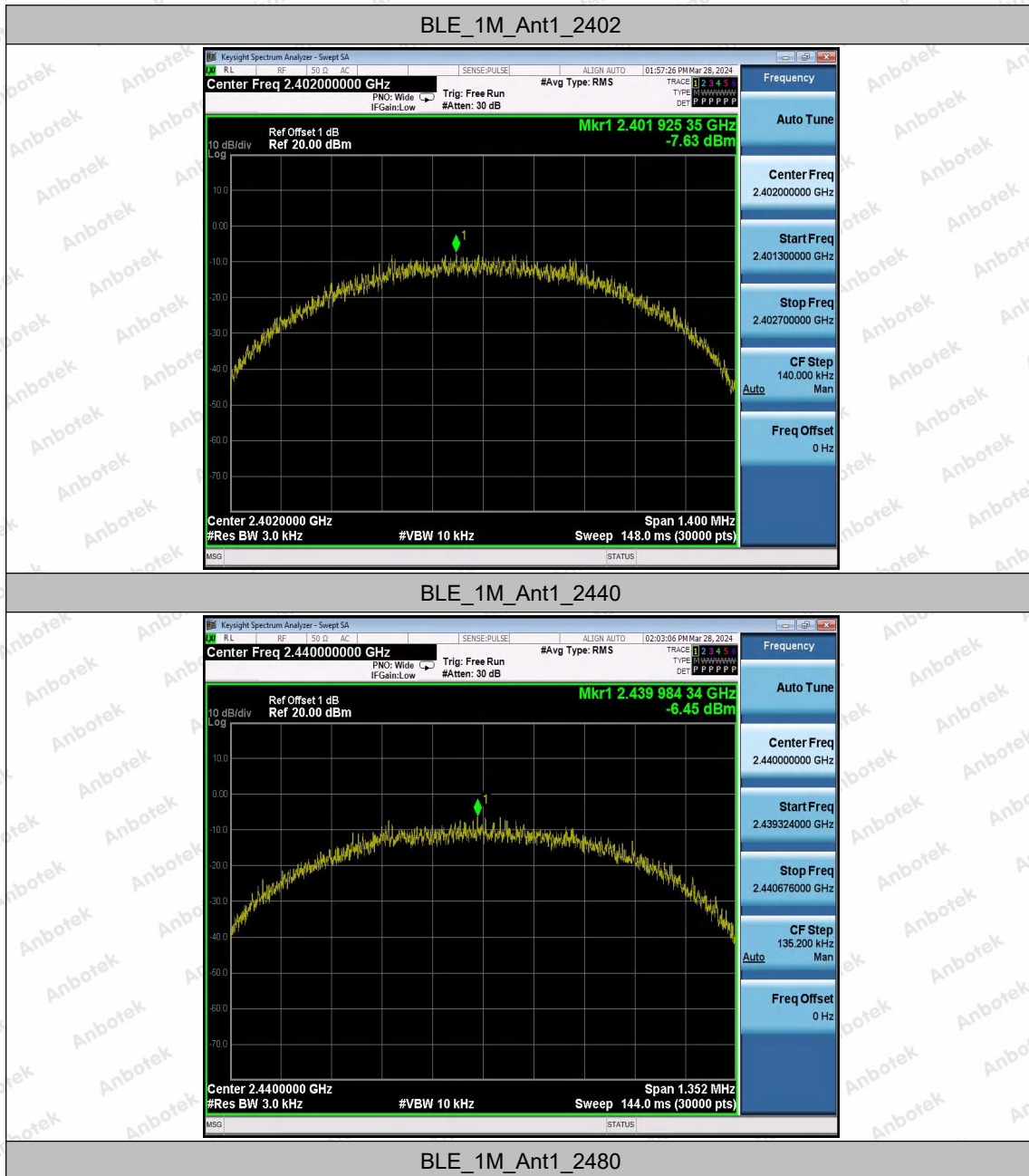
Appendix D: Maximum Power Spectral Density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.63	≤8.00	PASS
		2440	-6.45	≤8.00	PASS
		2480	-6.55	≤8.00	PASS
BLE_2M	Ant1	2402	-10.48	≤8.00	PASS
		2440	-9.20	≤8.00	PASS
		2480	-8.52	≤8.00	PASS



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.25	-57.17	≤-17.75	PASS
		High	2480	3.78	-56.38	≤-16.22	PASS
BLE_2M	Ant1	Low	2402	1.03	-31.24	≤-18.97	PASS
		High	2480	2.57	-56.52	≤-17.43	PASS

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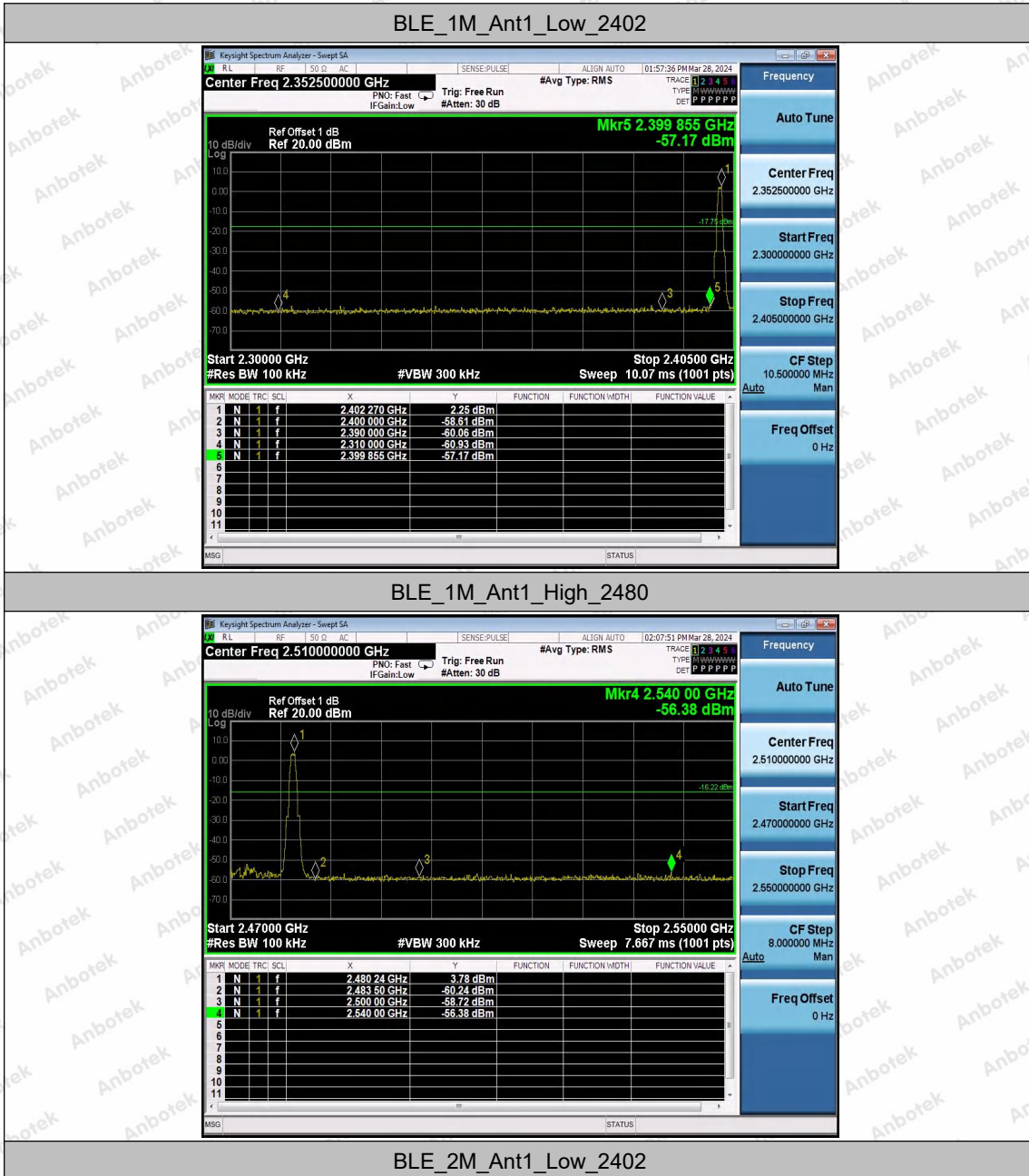
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Test Graphs

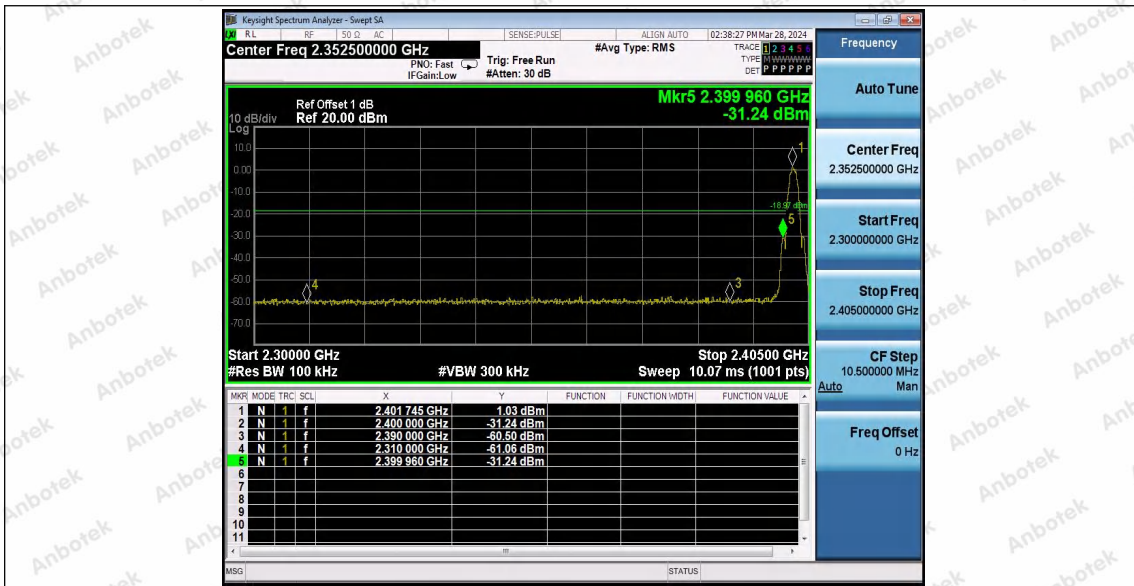


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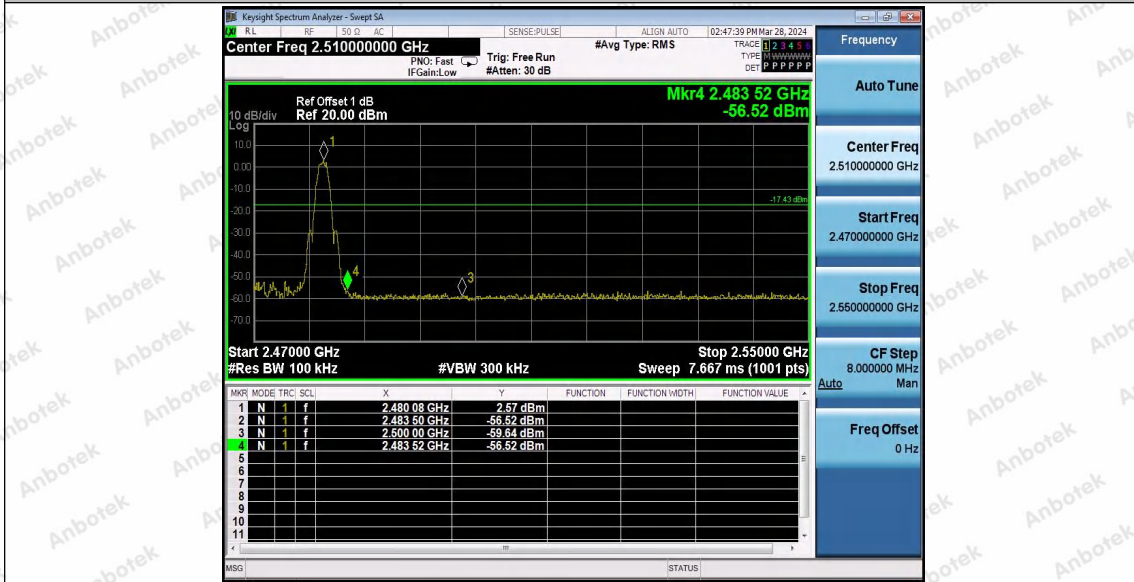
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BLE_2M_Ant1_High_2480



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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.21	2.21	---	PASS
			30~1000	2.21	-68.35	≤-17.79	PASS
			1000~26500	2.21	-42.32	≤-17.79	PASS
		2440	Reference	2.97	2.97	---	PASS
			30~1000	2.97	-68.54	≤-17.03	PASS
			1000~26500	2.97	-41.51	≤-17.03	PASS
		2480	Reference	3.66	3.66	---	PASS
			30~1000	3.66	-68.25	≤-16.34	PASS
			1000~26500	3.66	-44.67	≤-16.34	PASS
BLE_2M	Ant1	2402	Reference	1.08	1.08	---	PASS
			30~1000	1.08	-67.93	≤-18.92	PASS
			1000~26500	1.08	-41.2	≤-18.92	PASS
		2440	Reference	1.82	1.82	---	PASS
			30~1000	1.82	-68.07	≤-18.18	PASS
			1000~26500	1.82	-44.41	≤-18.18	PASS
		2480	Reference	2.32	2.32	---	PASS
			30~1000	2.32	-68.39	≤-17.68	PASS
			1000~26500	2.32	-45.14	≤-17.68	PASS



Test Graphs

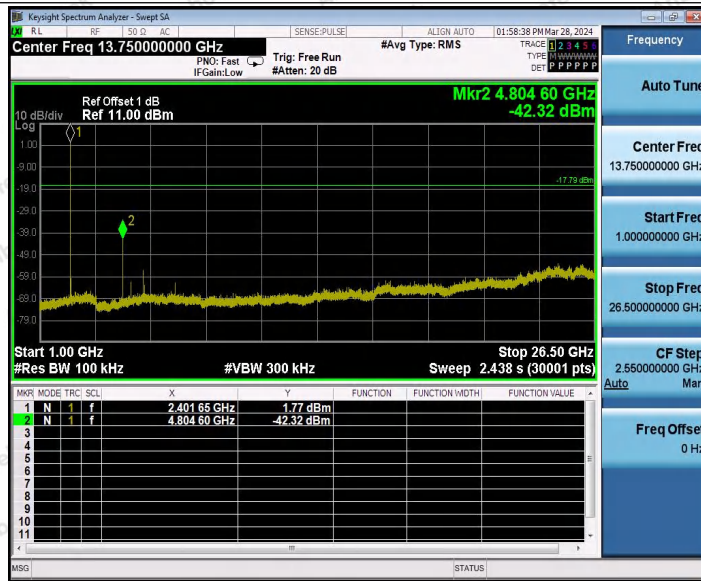


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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

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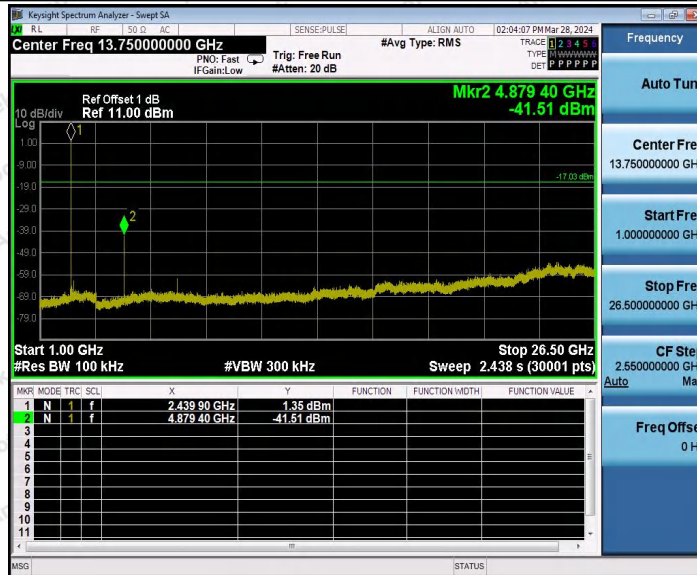
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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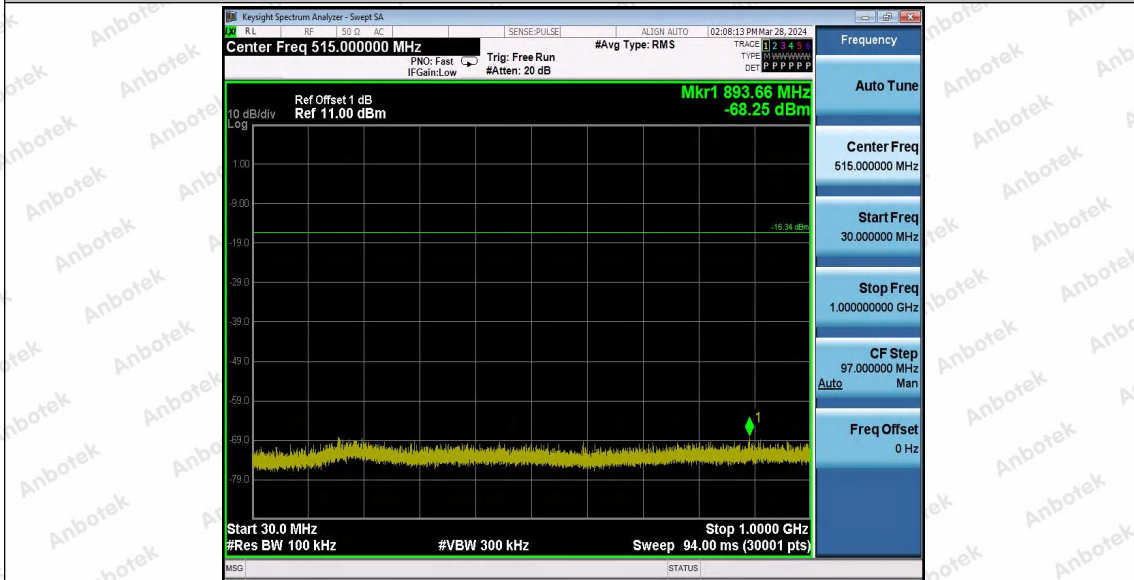
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BLE_1M_Ant1_2480_30~1000



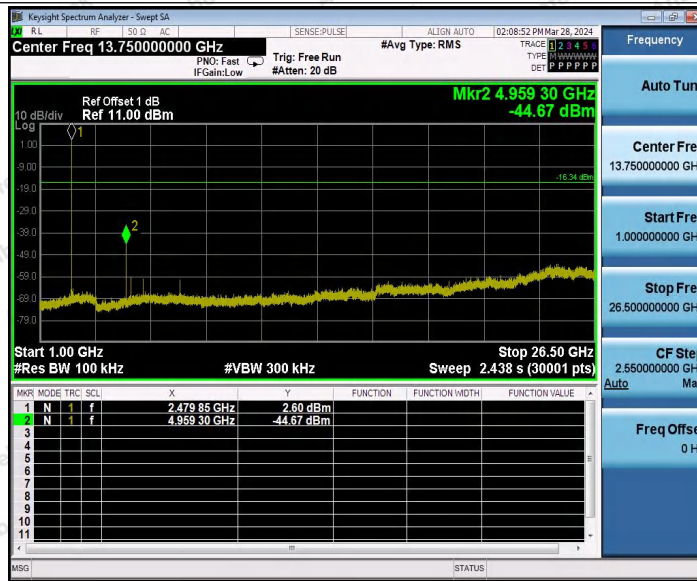
BLE_1M_Ant1_2480_1000~26500

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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

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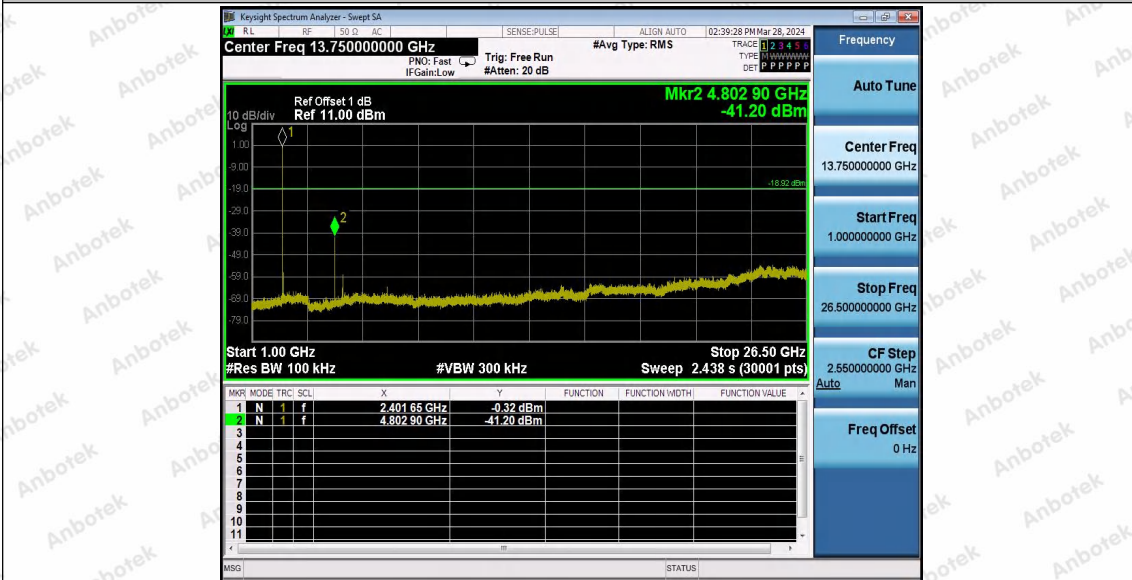
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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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BLE_2M_Ant1_2440_30~1000



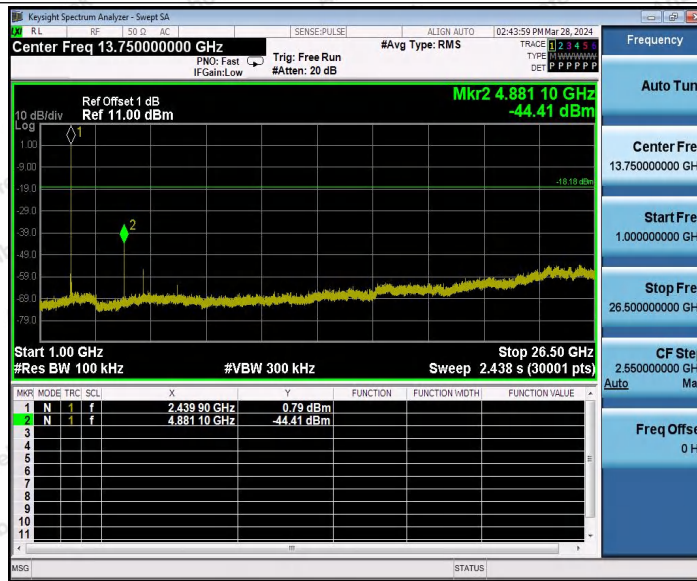
BLE_2M_Ant1_2440_1000~26500

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BLE_2M_Ant1_2480_0~Reference



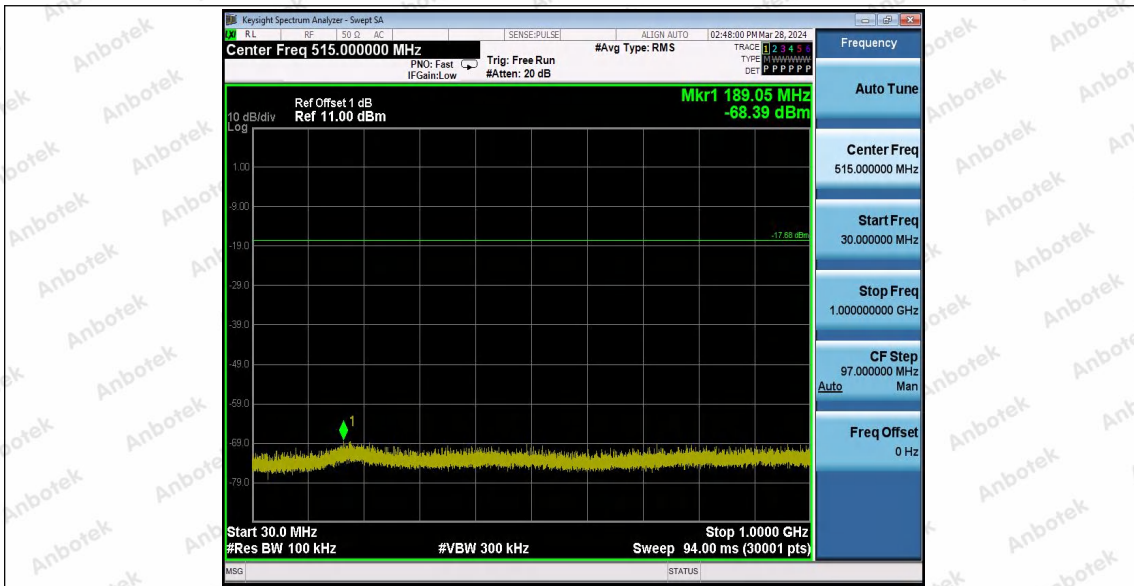
BLE_2M_Ant1_2480_30~1000

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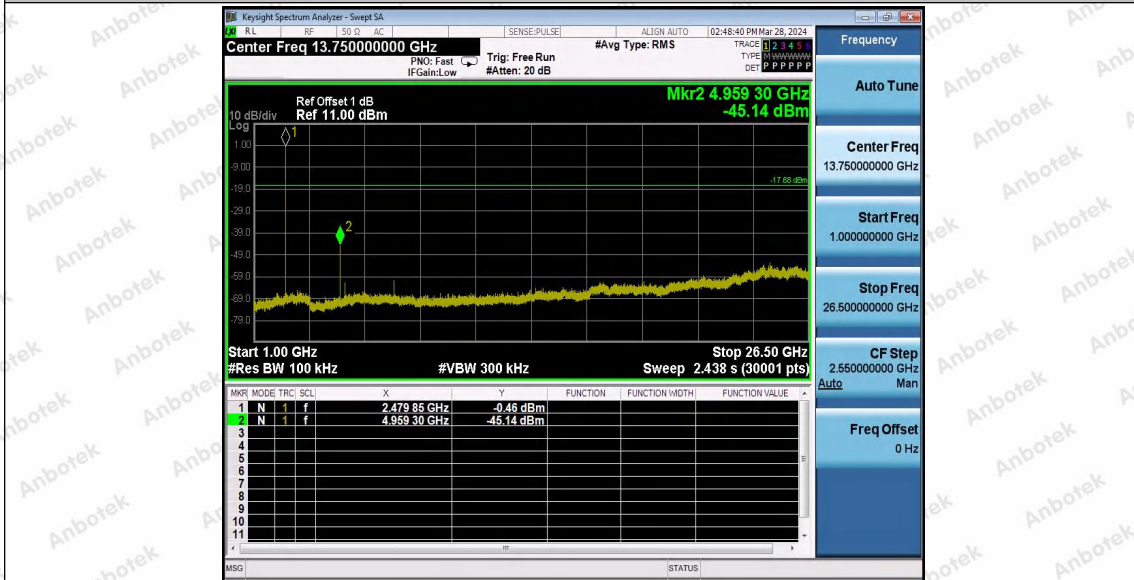
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BLE_2M_Ant1_2480_1000~26500



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Appendix G: Duty Cycle

Test Result

Test Mode	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

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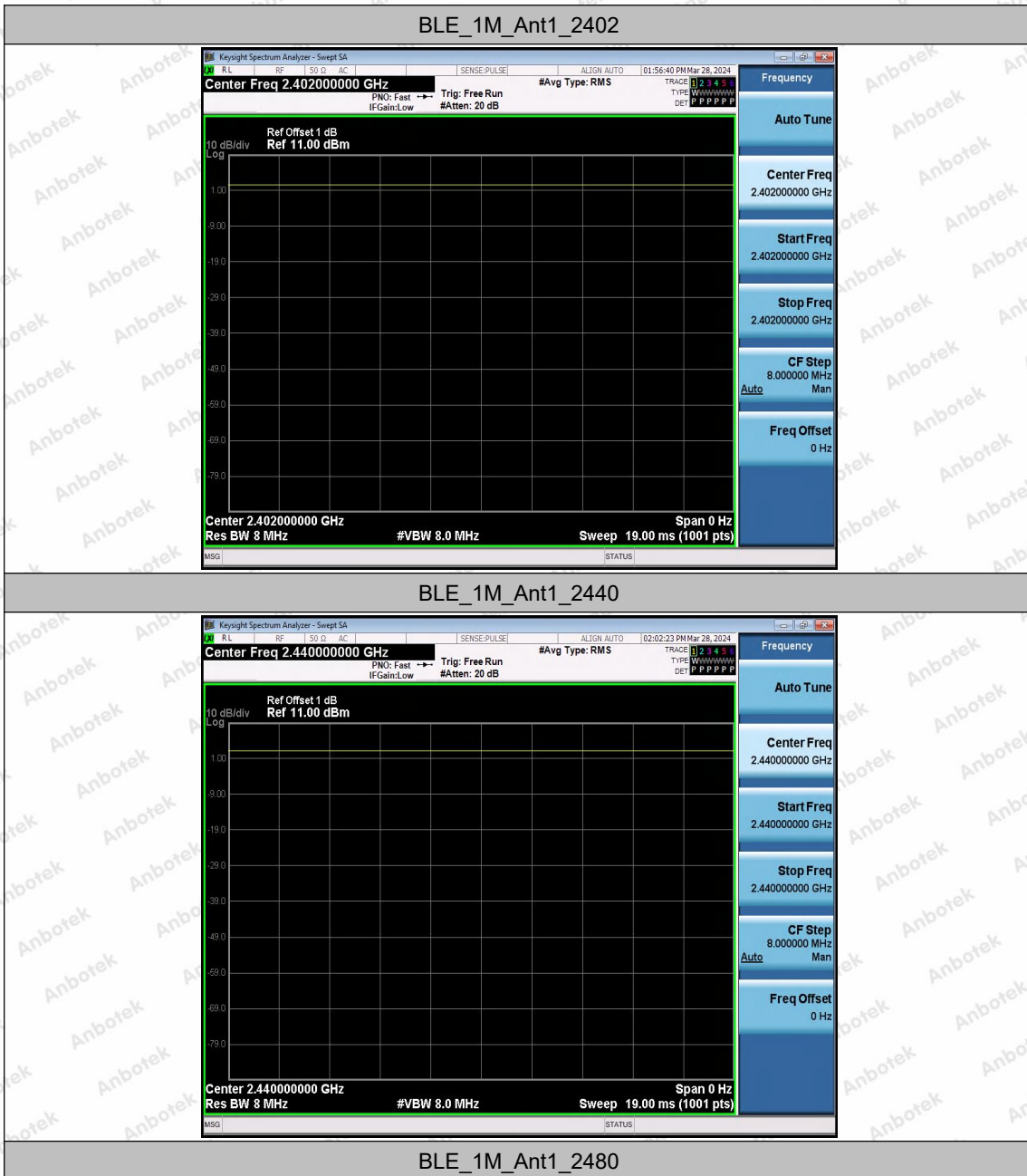
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Test Graphs



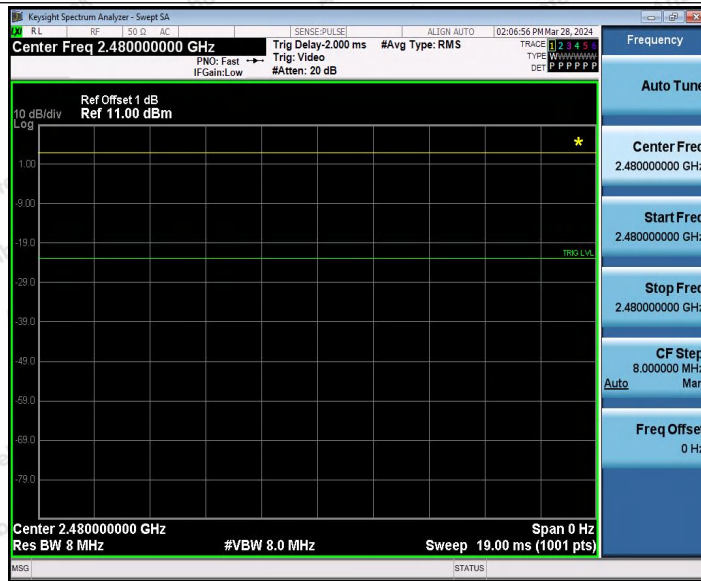
BLE_1M_Ant1_2480

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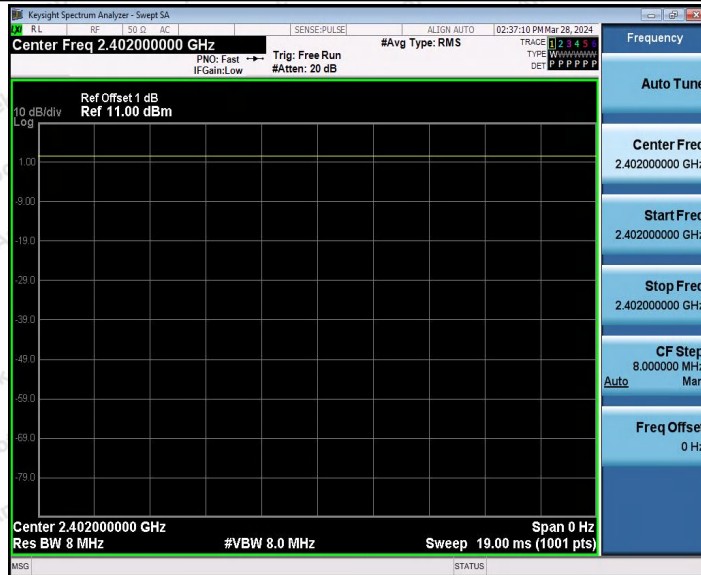
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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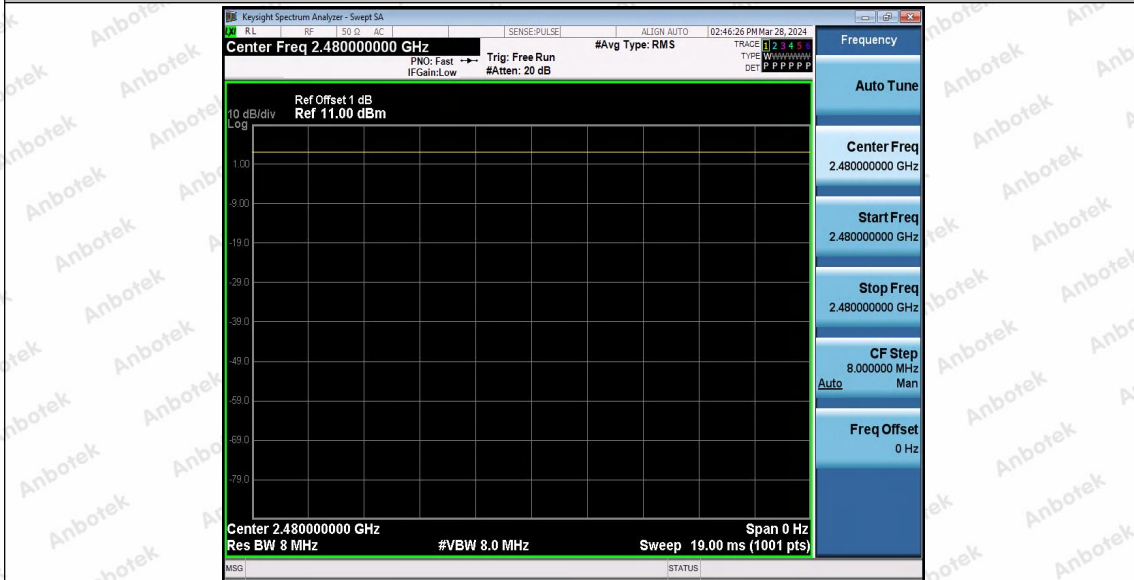
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BLE_2M_Ant1_2480



---END---

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