

Appendix Test Data

Report No.:	18220WC40015302	Test Sample No.:	1-2-2
Start Test Date:	2024.3.29	Finish Test Date:	2024.3.29
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.2°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	0.680	2401.648	2402.328	0.5	PASS
		2440	0.572	2439.676	2440.248	0.5	PASS
		2480	0.656	2479.676	2480.332	0.5	PASS
BLE_2M	Ant1	2402	1.008	2401.360	2402.368	0.5	PASS
		2440	0.876	2439.496	2440.372	0.5	PASS
		2480	1.324	2479.328	2480.652	0.5	PASS

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Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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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	0.97259	2401.5154	2402.4880	---	---
		2440	1.0142	2439.4935	2440.5077	---	---
		2480	1.0320	2479.5005	2480.5325	---	---
BLE_2M	Ant1	2402	2.0453	2401.0042	2403.0495	---	---
		2440	1.9894	2438.9976	2440.9870	---	---
		2480	2.0480	2478.9957	2481.0437	---	---

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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

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.78	≤30	PASS
		2440	8.33	≤30	PASS
		2480	8.51	≤30	PASS
BLE_2M	Ant1	2402	7.74	≤30	PASS
		2440	8.28	≤30	PASS
		2480	8.51	≤30	PASS

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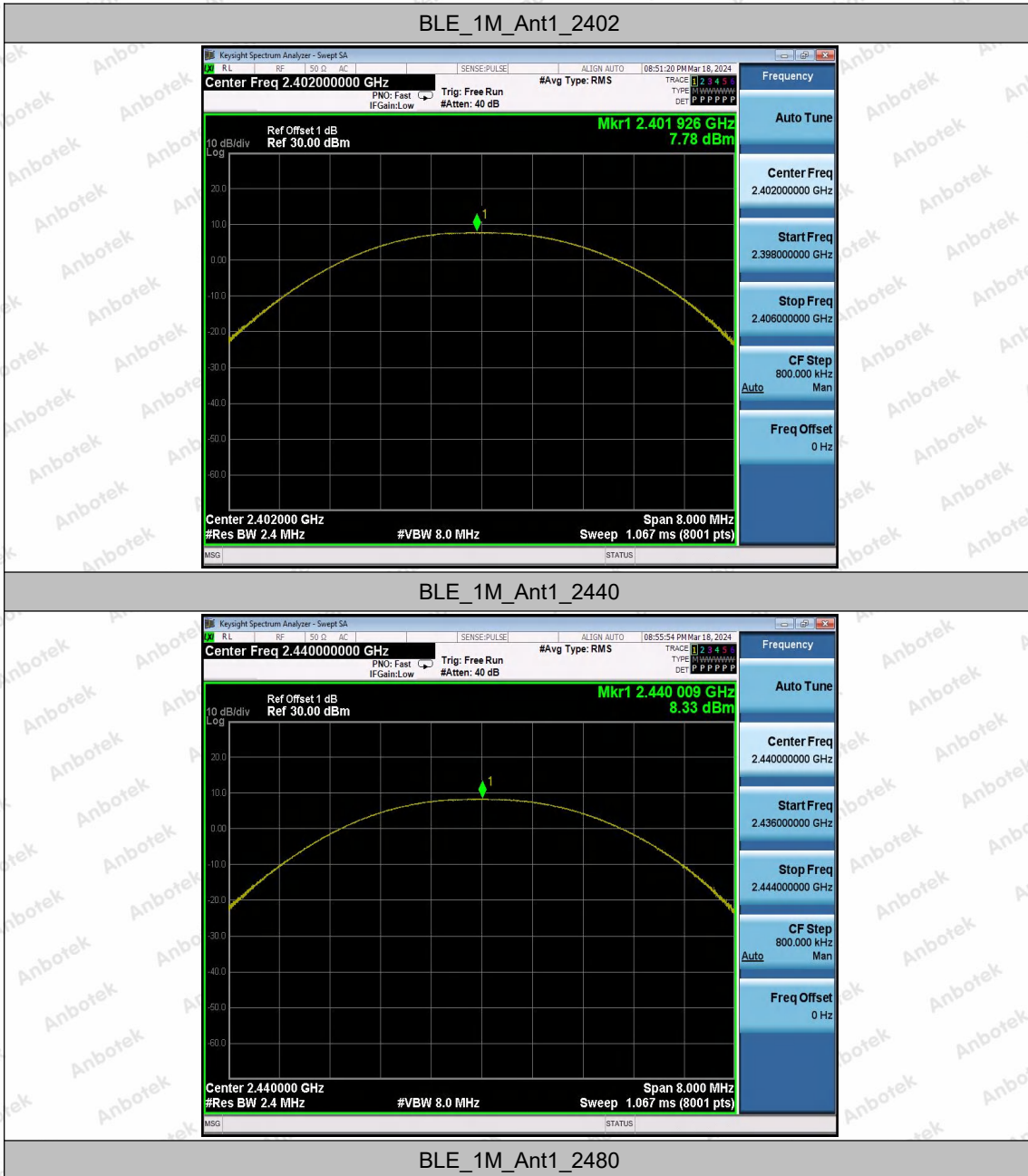
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Test Graphs Peak

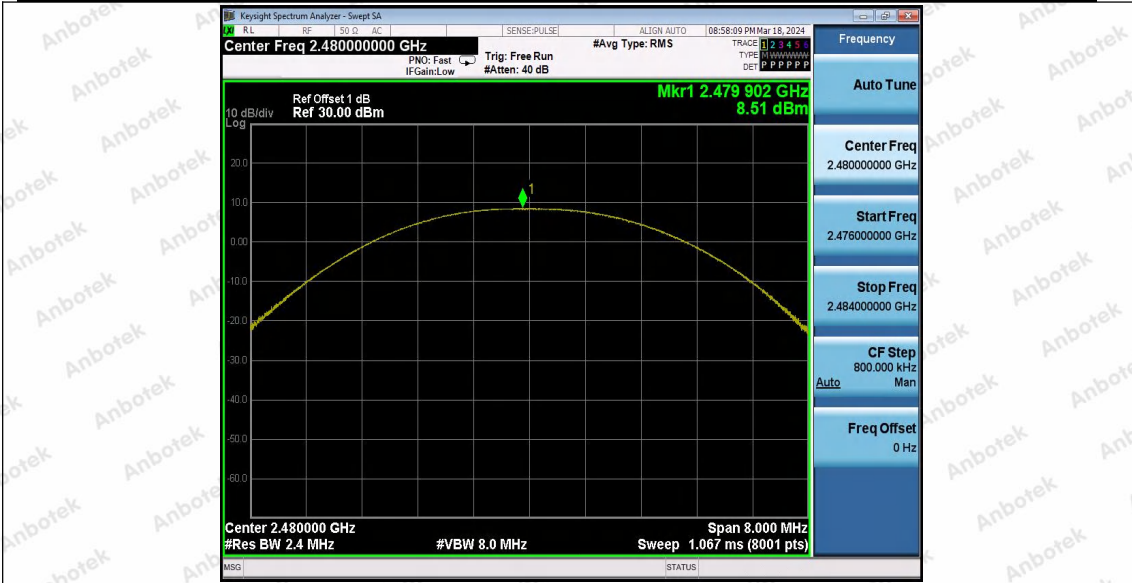


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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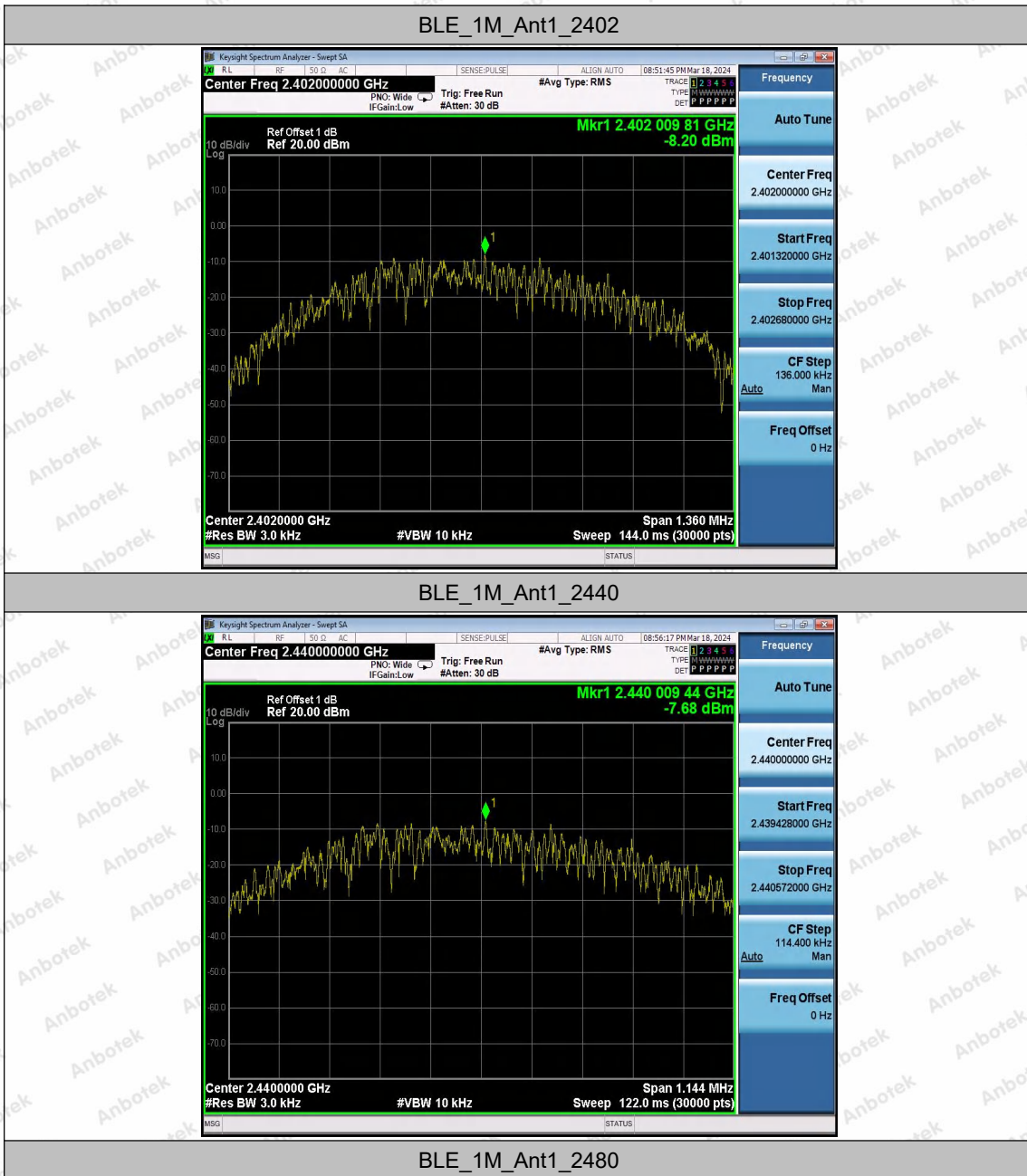
Appendix D: Maximum Power Spectral Density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.20	≤8.00	PASS
		2440	-7.68	≤8.00	PASS
		2480	-7.57	≤8.00	PASS
BLE_2M	Ant1	2402	-12.82	≤8.00	PASS
		2440	-12.23	≤8.00	PASS
		2480	-11.91	≤8.00	PASS



Test Graphs

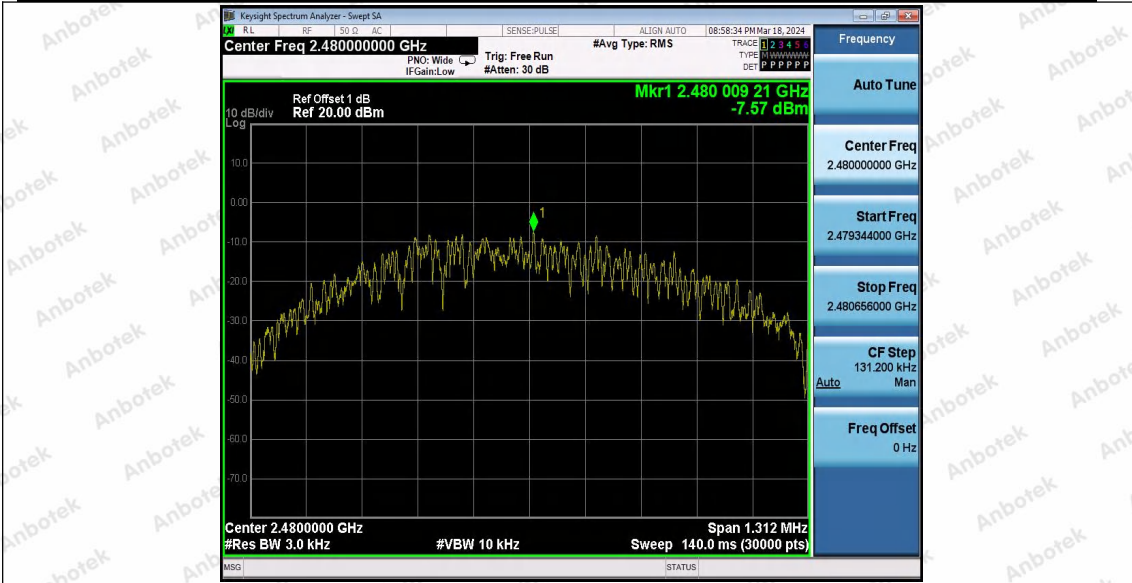


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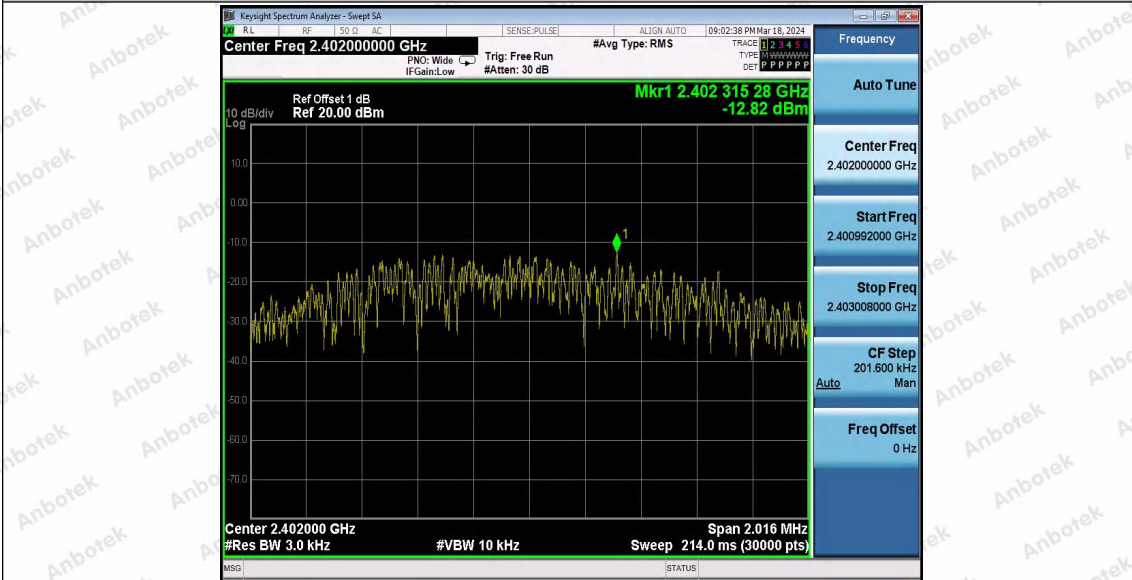
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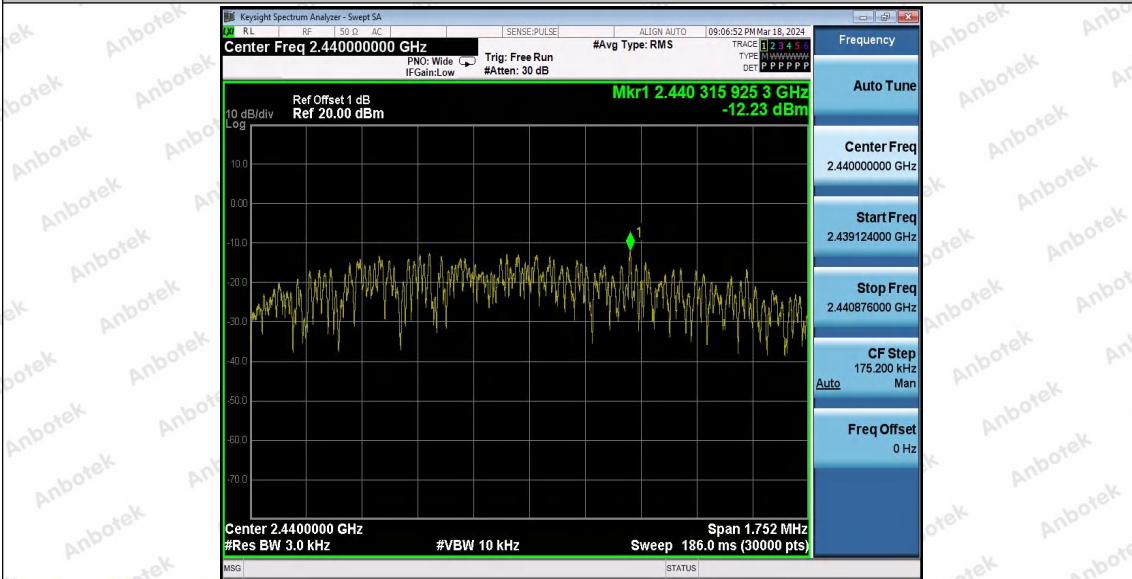




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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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	7.32	-42.33	≤-12.68	PASS
		High	2480	8.13	-47.40	≤-11.87	PASS
BLE_2M	Ant1	Low	2402	5.21	-28.24	≤-14.79	PASS
		High	2480	6.77	-31.82	≤-13.23	PASS

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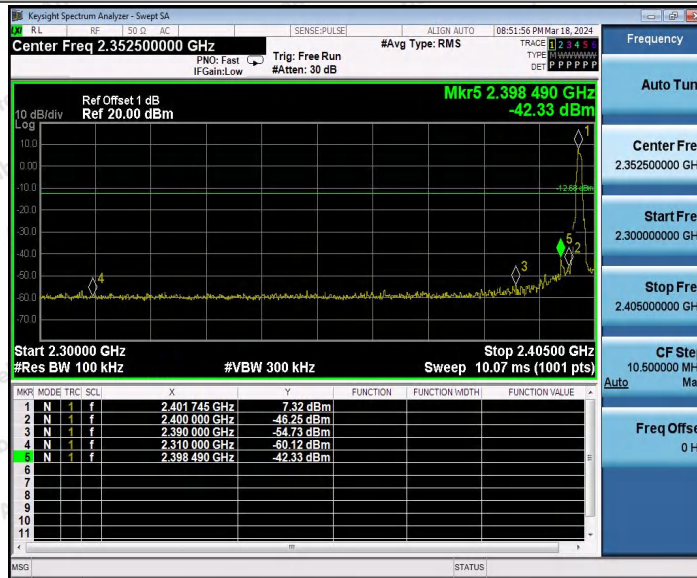


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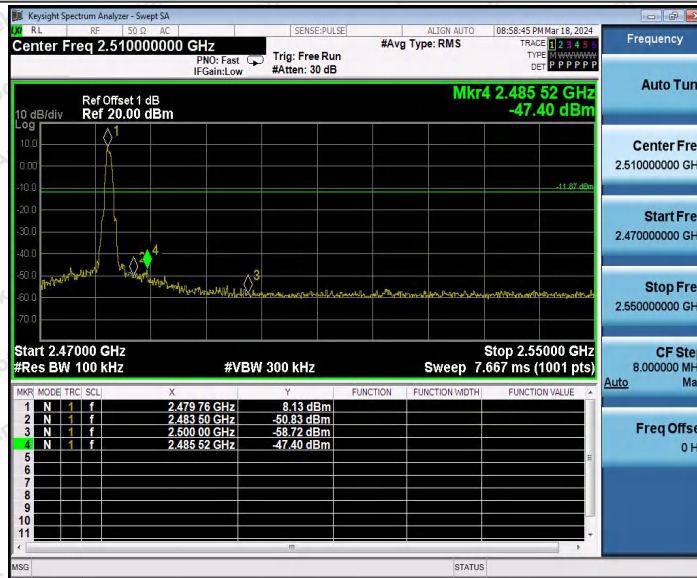


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



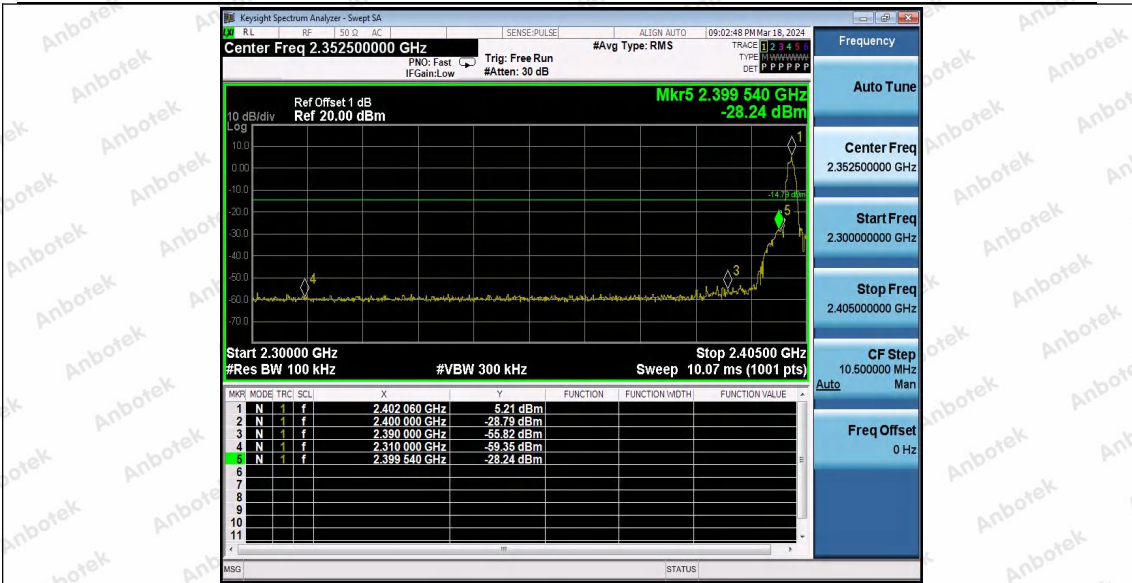
BLE_2M_Ant1_Low_2402

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BLE_2M_Ant1_High_2480



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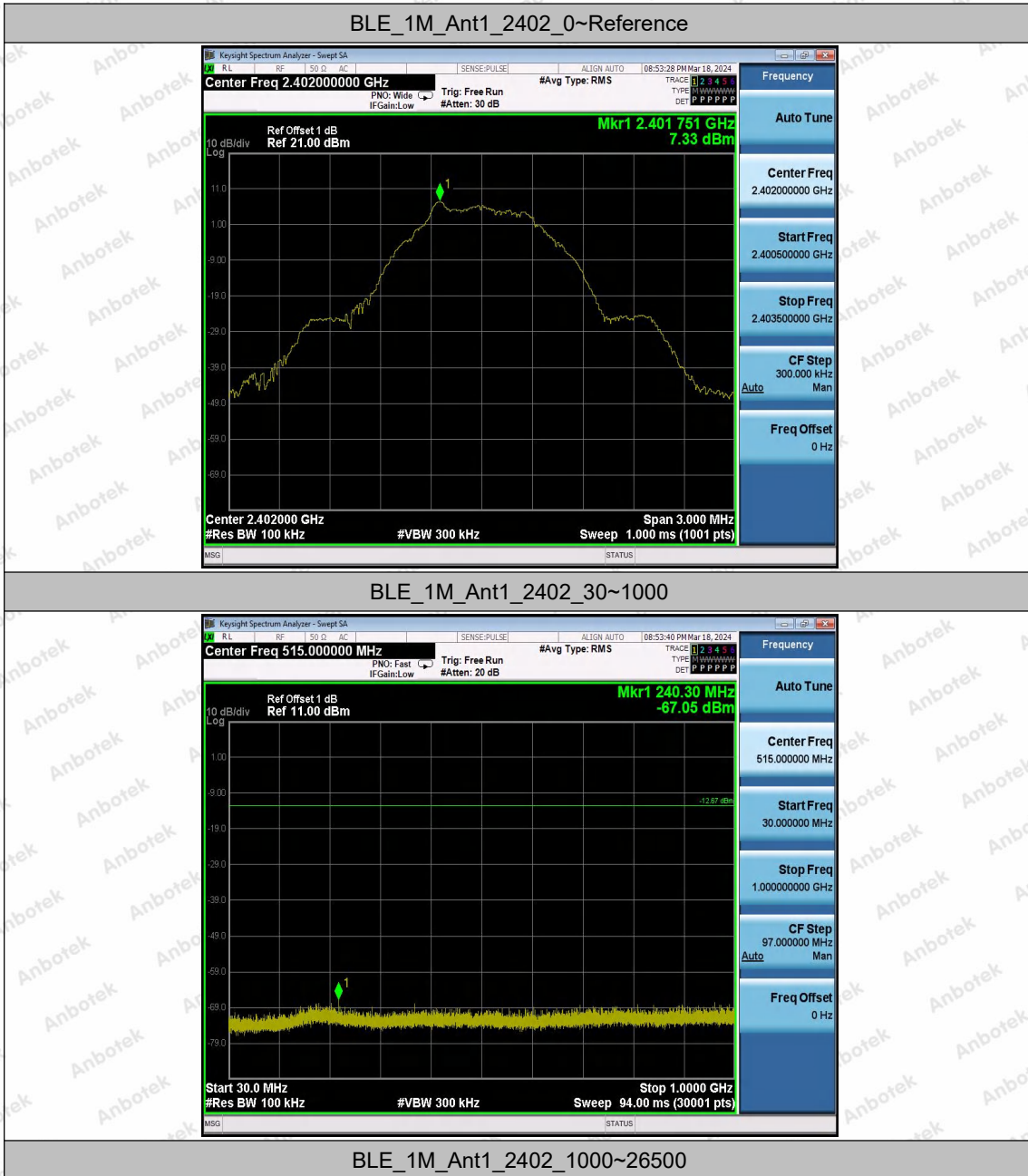
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	7.33	7.33	---	PASS
			30~1000	7.33	-67.05	≤-12.67	PASS
			1000~26500	7.33	-53.66	≤-12.67	PASS
		2440	Reference	7.82	7.82	---	PASS
			30~1000	7.82	-68.03	≤-12.18	PASS
			1000~26500	7.82	-52.79	≤-12.18	PASS
		2480	Reference	8.10	8.10	---	PASS
			30~1000	8.10	-67.06	≤-11.9	PASS
			1000~26500	8.10	-53.50	≤-11.9	PASS
BLE_2M	Ant1	2402	Reference	6.85	6.85	---	PASS
			30~1000	6.85	-67.40	≤-13.15	PASS
			1000~26500	6.85	-53.34	≤-13.15	PASS
		2440	Reference	7.39	7.39	---	PASS
			30~1000	7.39	-67.30	≤-12.61	PASS
			1000~26500	7.39	-53.36	≤-12.61	PASS
		2480	Reference	7.56	7.56	---	PASS
			30~1000	7.56	-66.62	≤-12.44	PASS
			1000~26500	7.56	-53.51	≤-12.44	PASS



Test Graphs

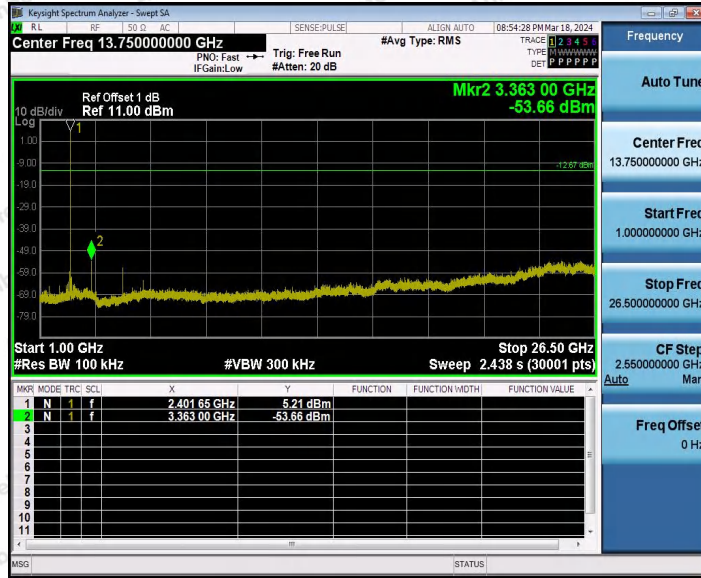


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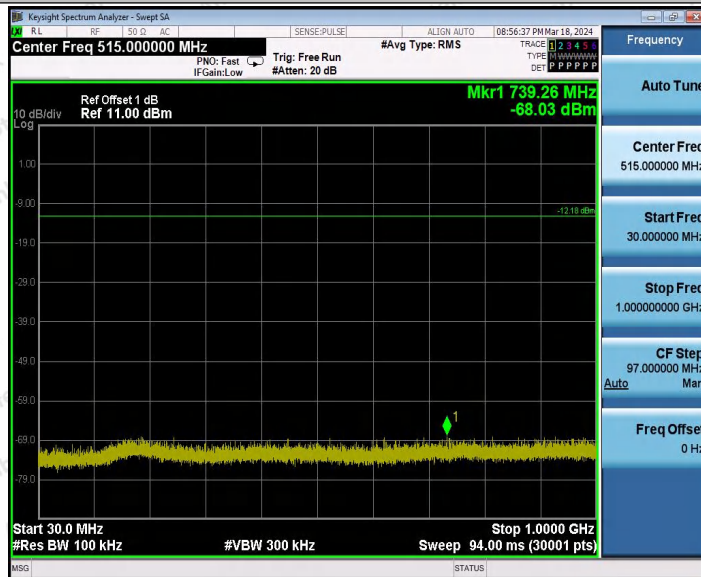




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

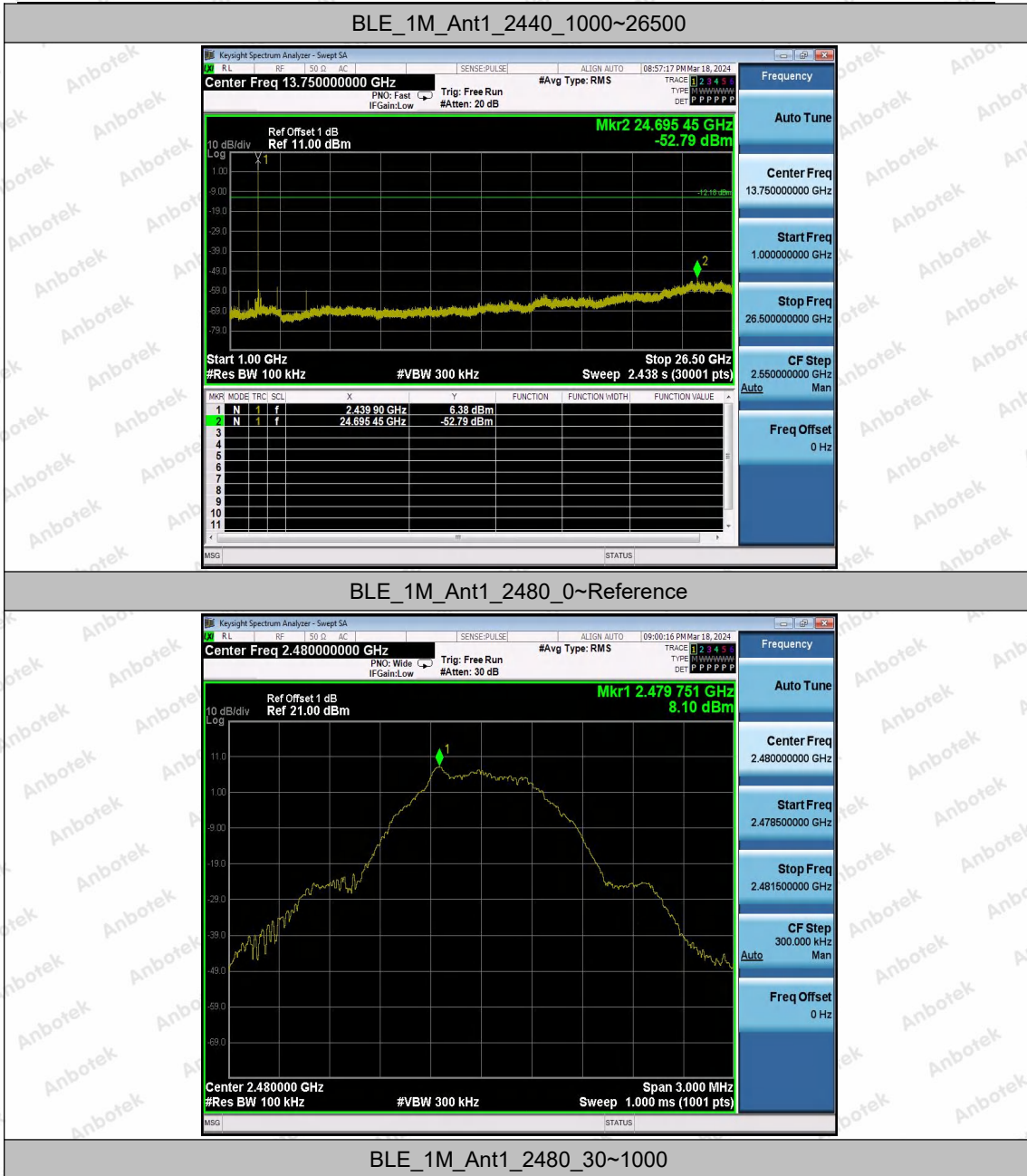


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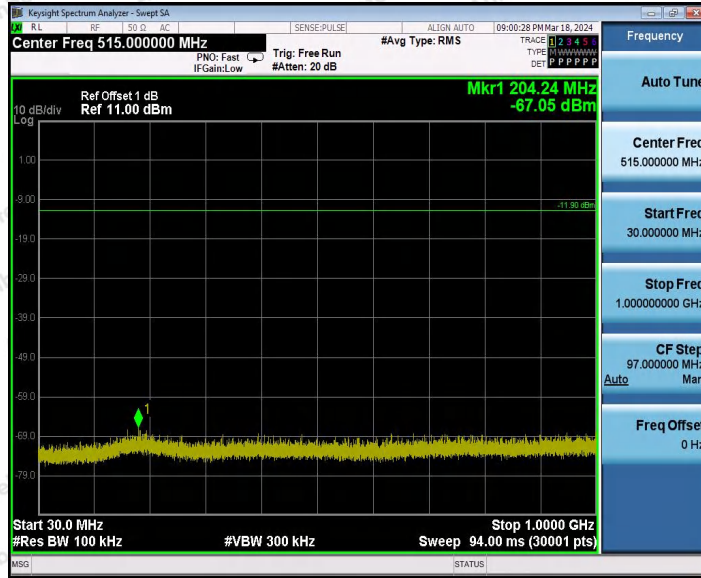


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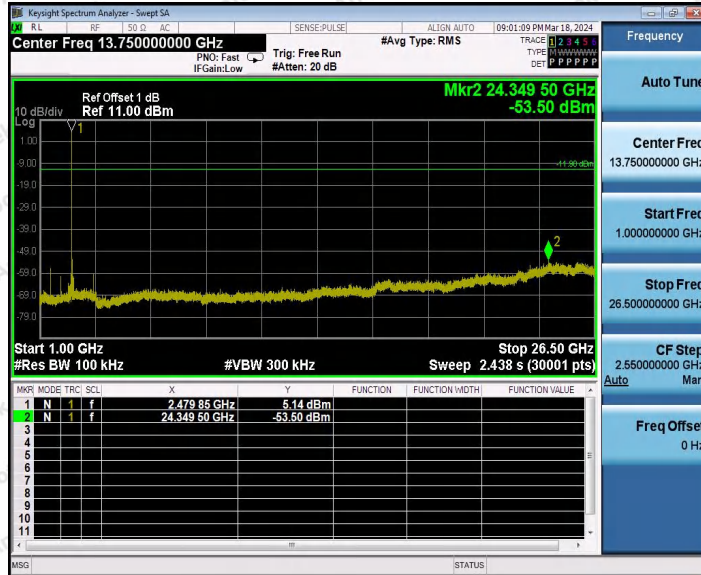
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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference

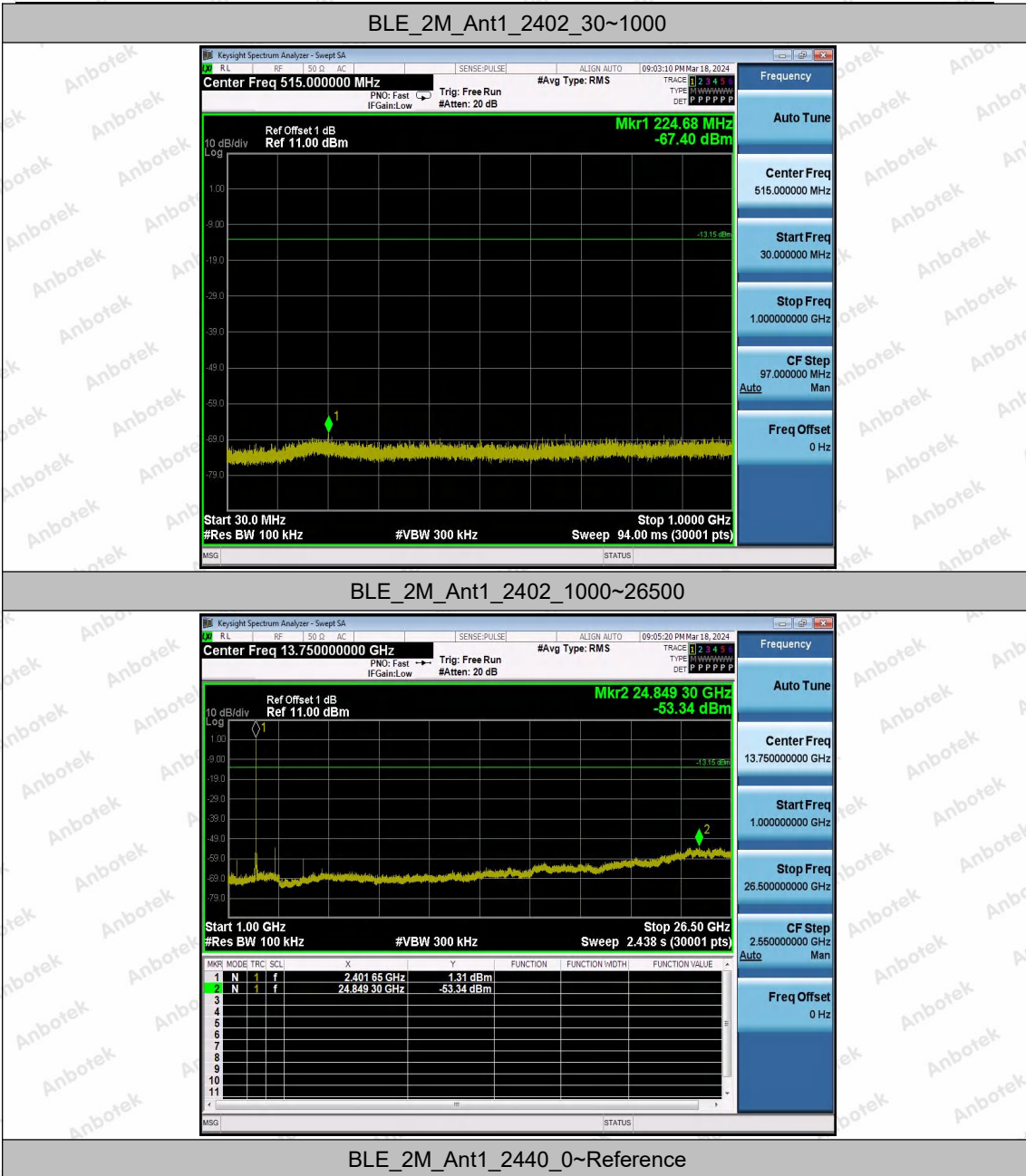


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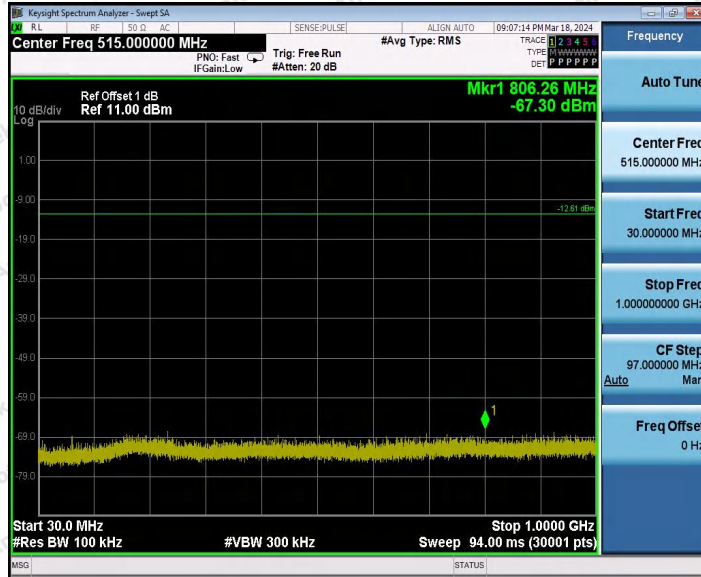
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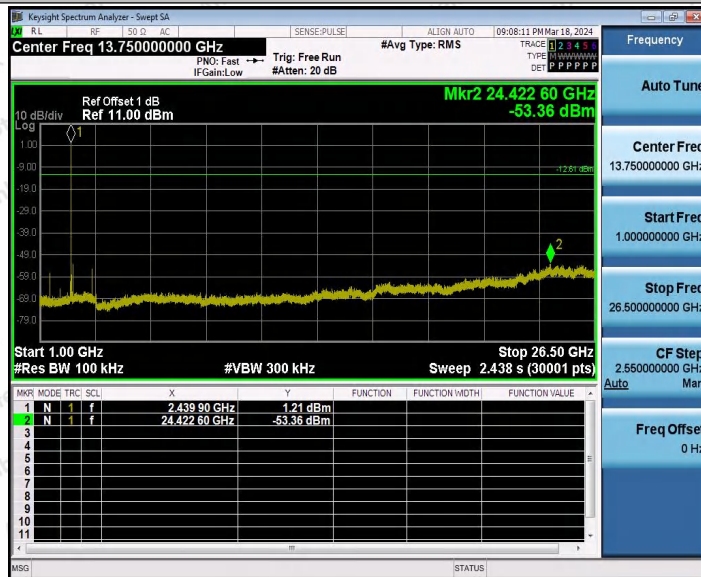




BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

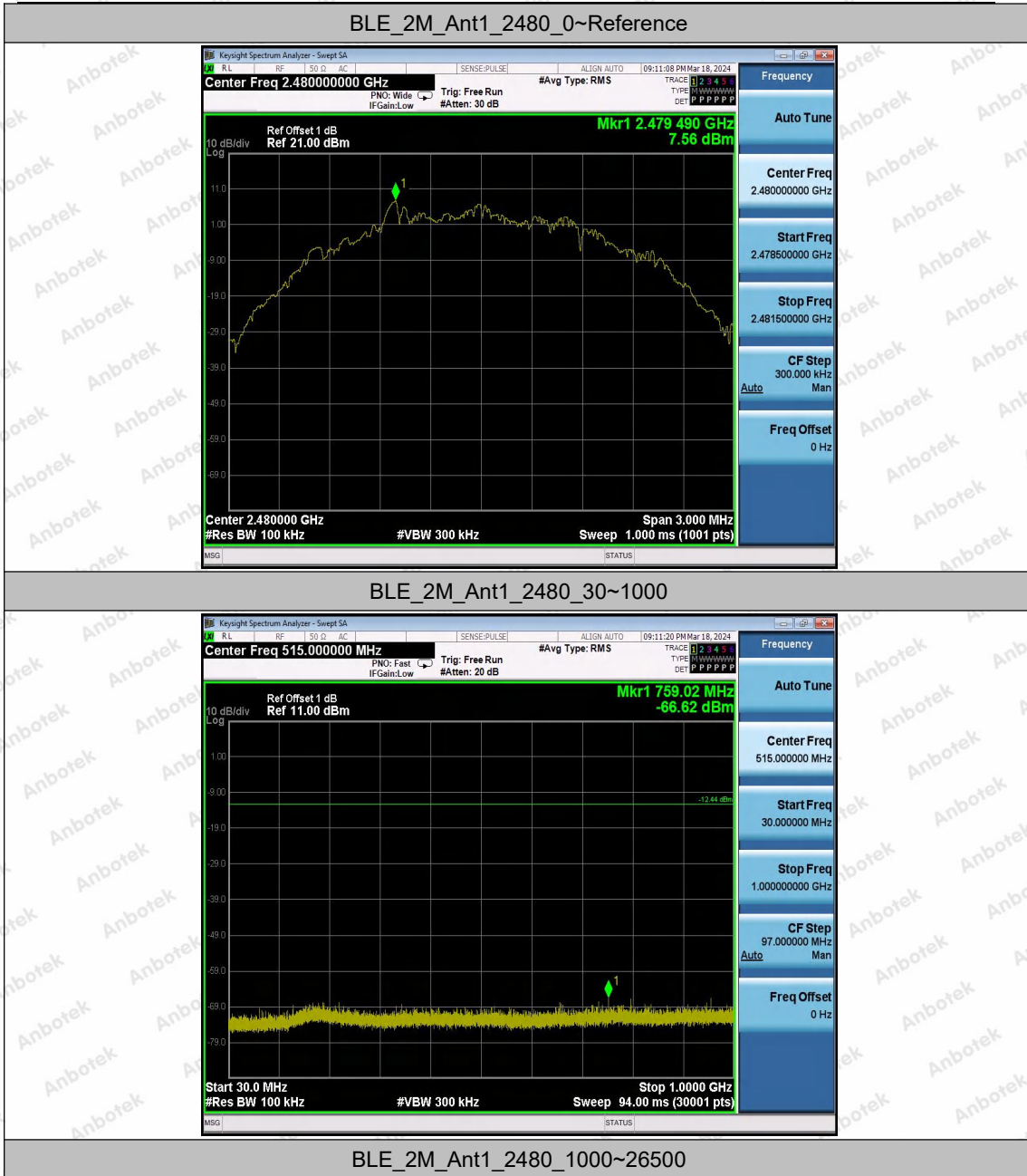


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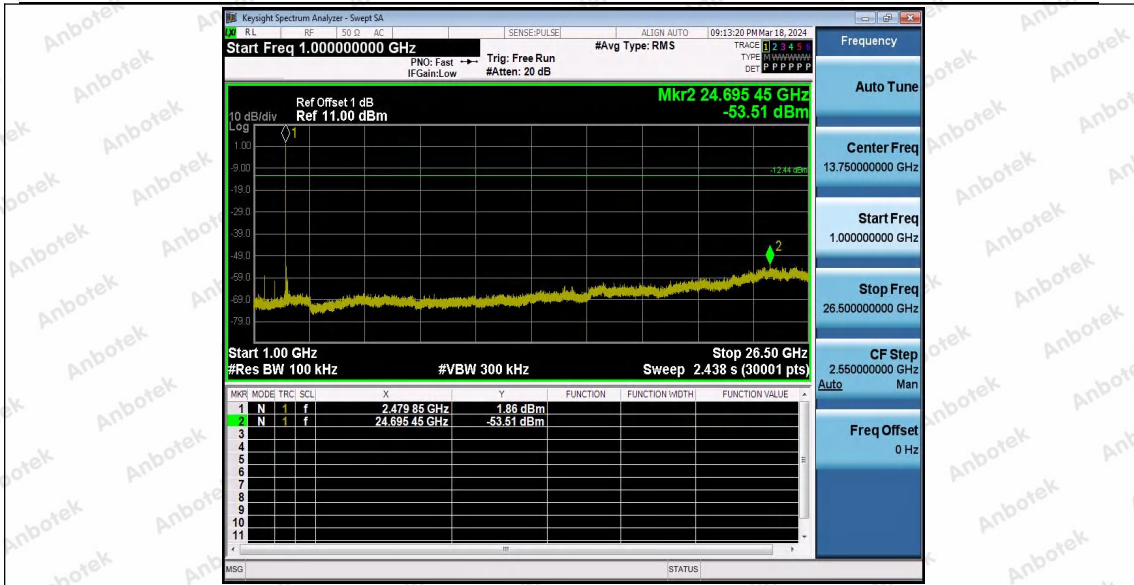


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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.31	3.74	8.29	10.81
		2440	0.31	3.74	8.29	10.81
		2480	0.31	3.74	8.29	10.81
BLE_2M	Ant1	2402	0.16	3.74	4.28	13.69
		2440	0.16	3.74	4.28	13.69
		2480	0.17	3.75	4.53	13.44

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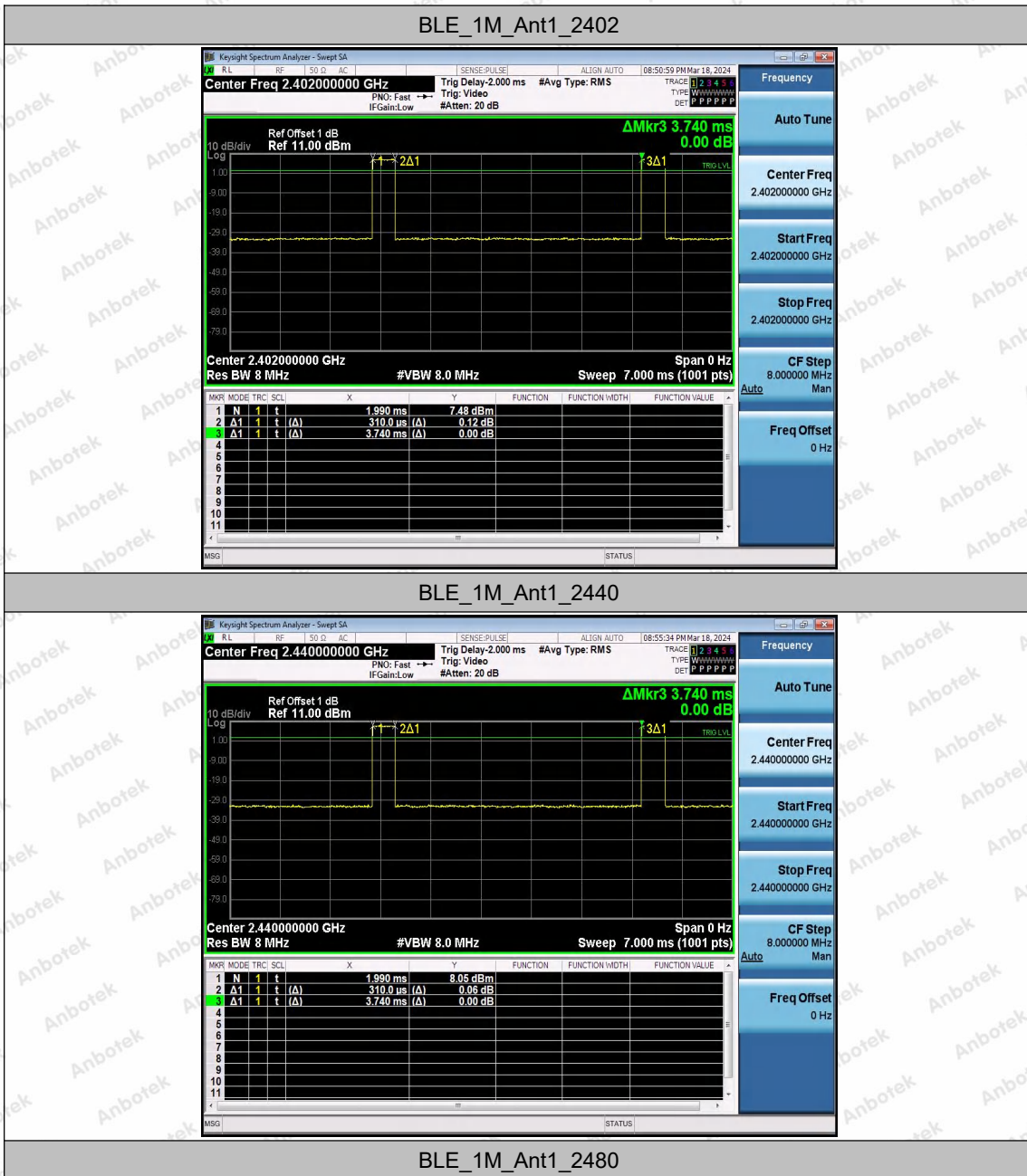
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Test Graphs

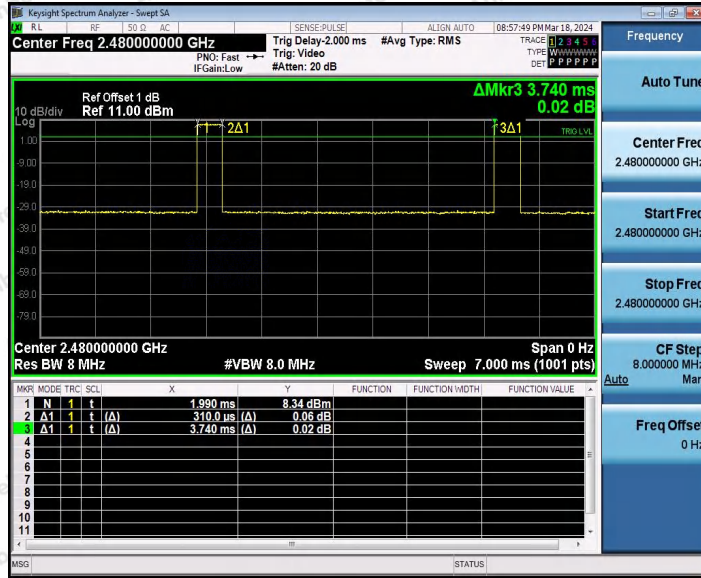


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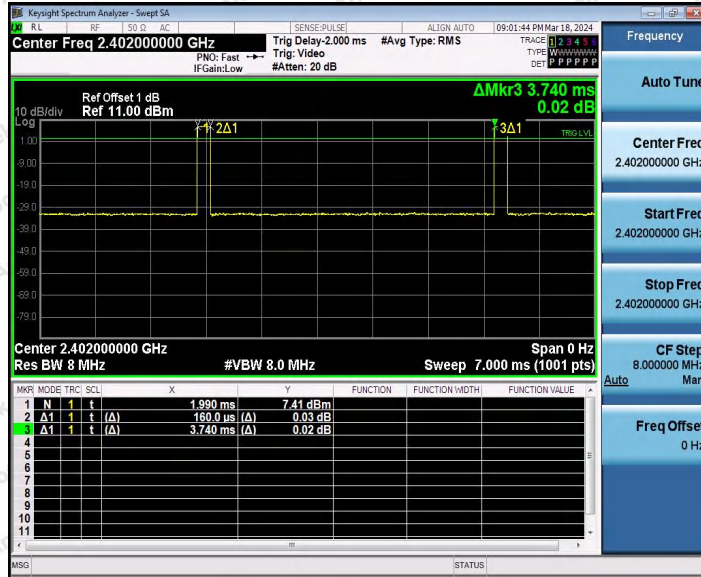
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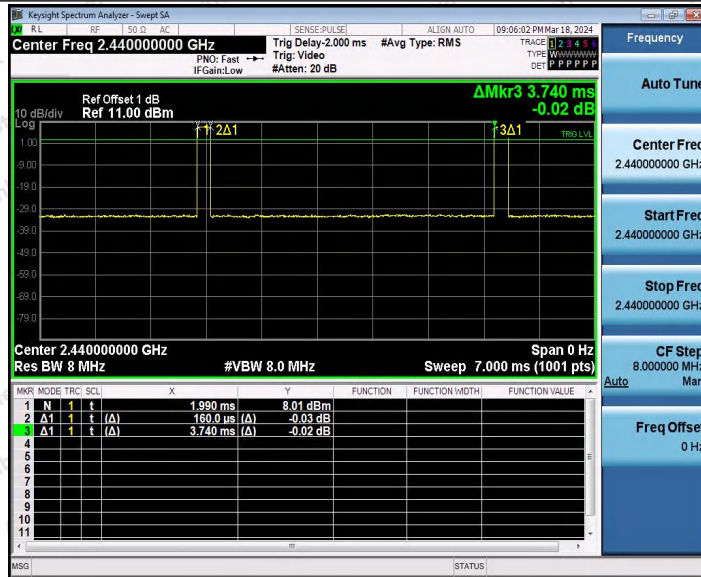




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

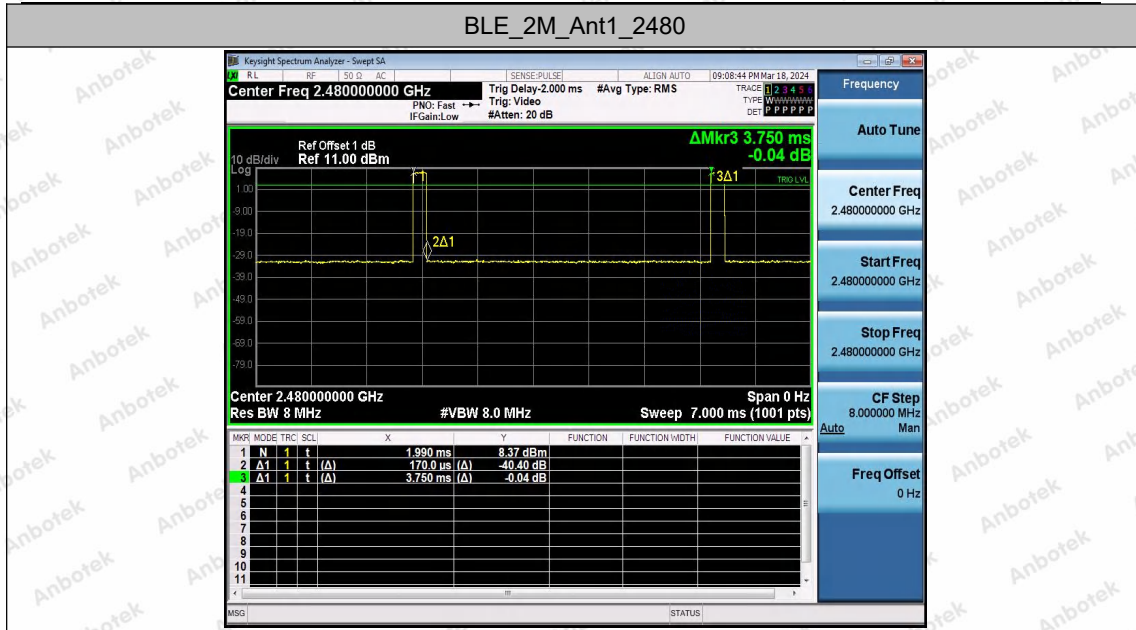


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