

Appendix Test Data

Report No.:	18220WC30028701	Test Sample No.:	1-2-2
Start Test Date:	2023.02.24	Finish Test Date:	2023.03.01
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	23.0°C	Relative Humidity:	46%
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.724	2401.640	2402.364	0.5	PASS
		2440	0.760	2439.612	2440.372	0.5	PASS
		2480	0.716	2479.648	2480.364	0.5	PASS
BLE_2M	Ant1	2402	1.220	2401.340	2402.560	0.5	PASS
		2440	1.128	2439.452	2440.580	0.5	PASS
		2480	1.180	2479.424	2480.604	0.5	PASS

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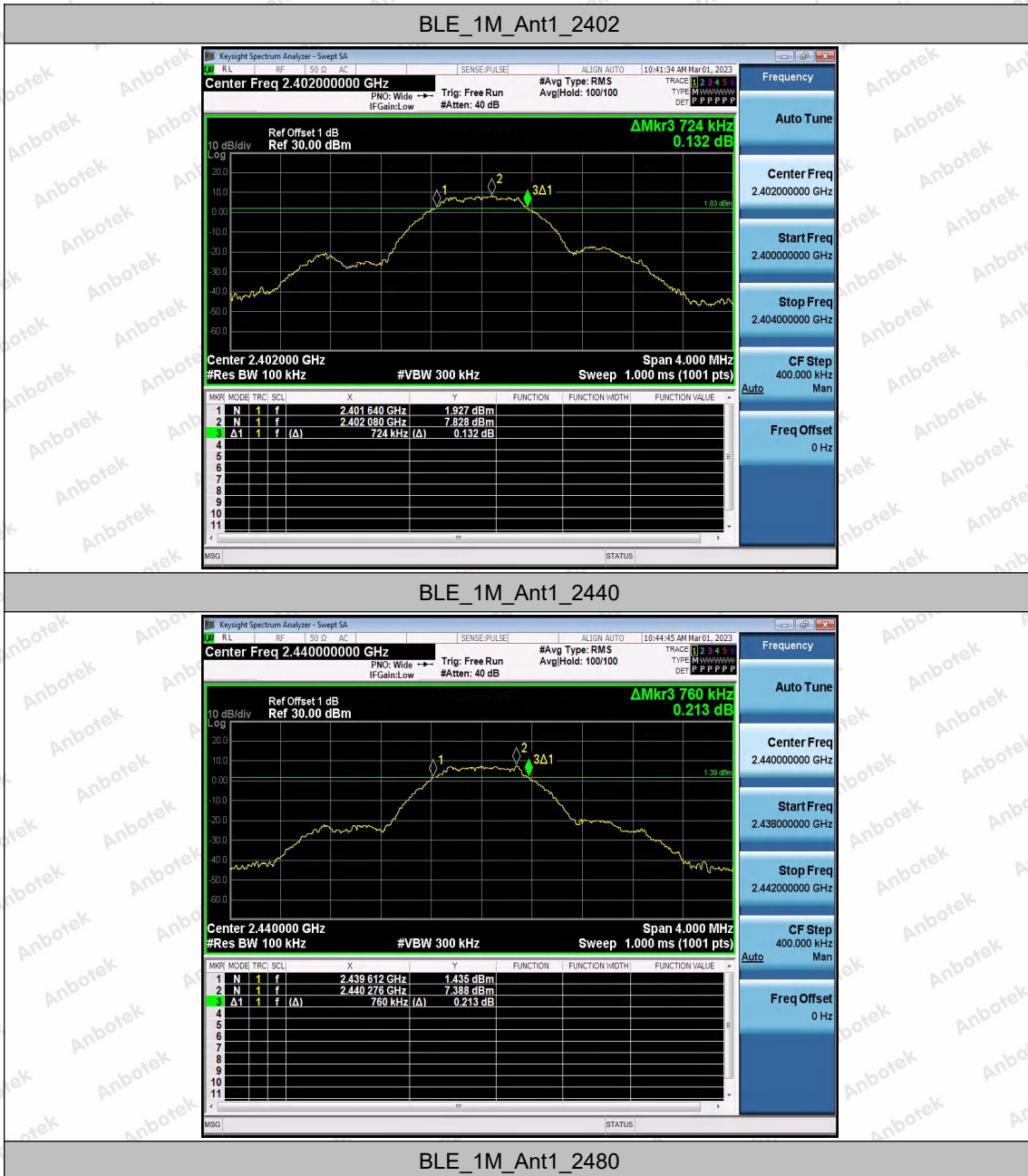
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Test Graphs



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BLE_2M_Ant1_2402

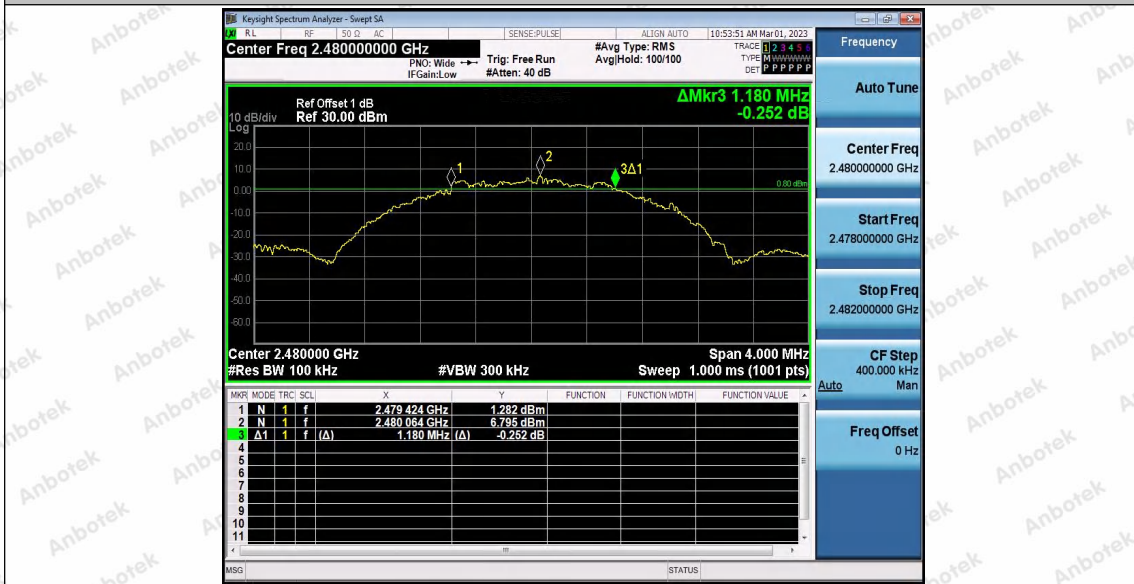


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



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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	1.0725	2401.4700	2402.5425
		2440	1.0764	2439.4690	2440.5454
		2480	1.0689	2479.4681	2480.5370
BLE_2M	Ant1	2402	2.0567	2400.9821	2403.0388
		2440	2.0648	2438.9840	2441.0488
		2480	2.0645	2478.9786	2481.0431

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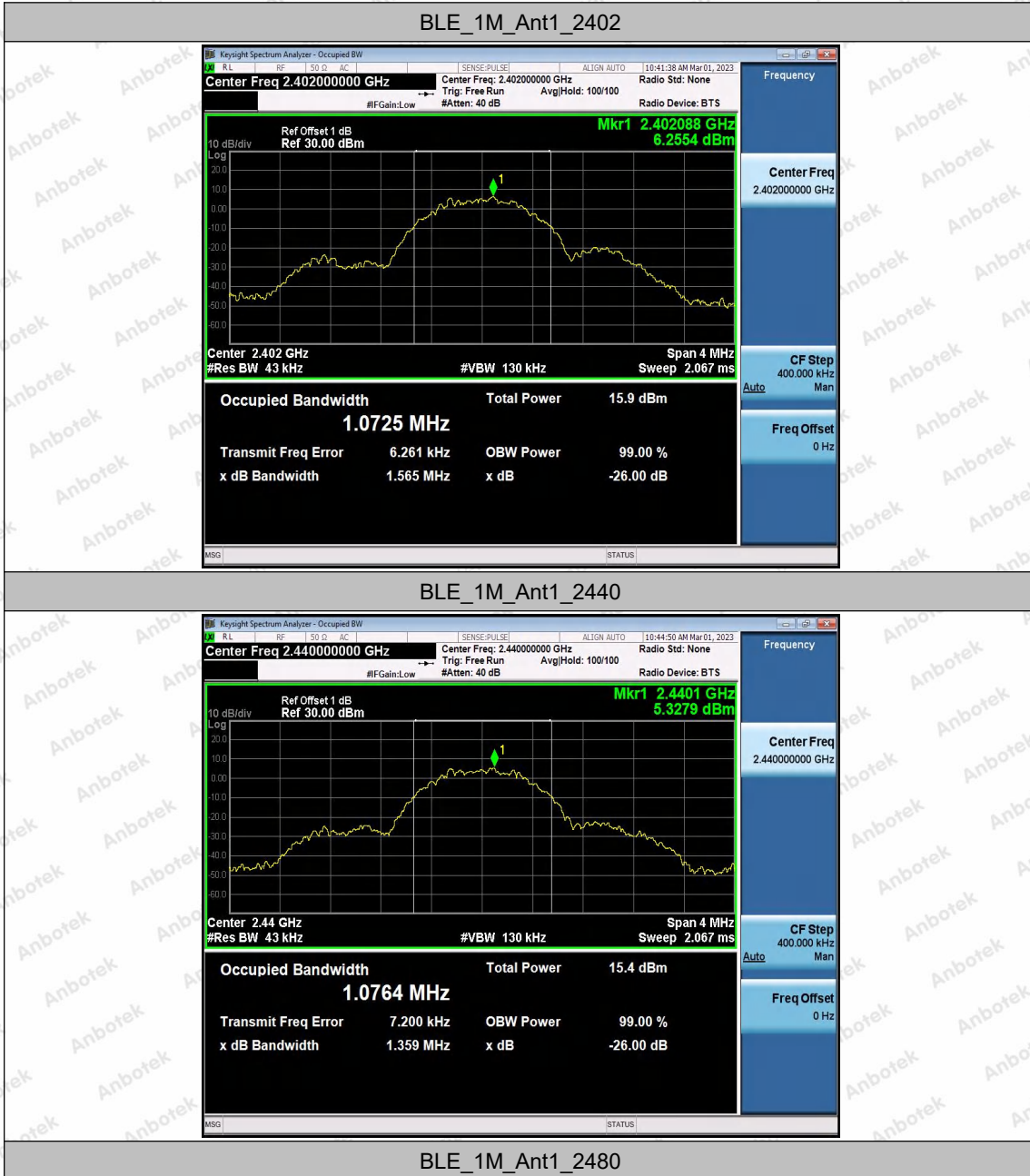
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Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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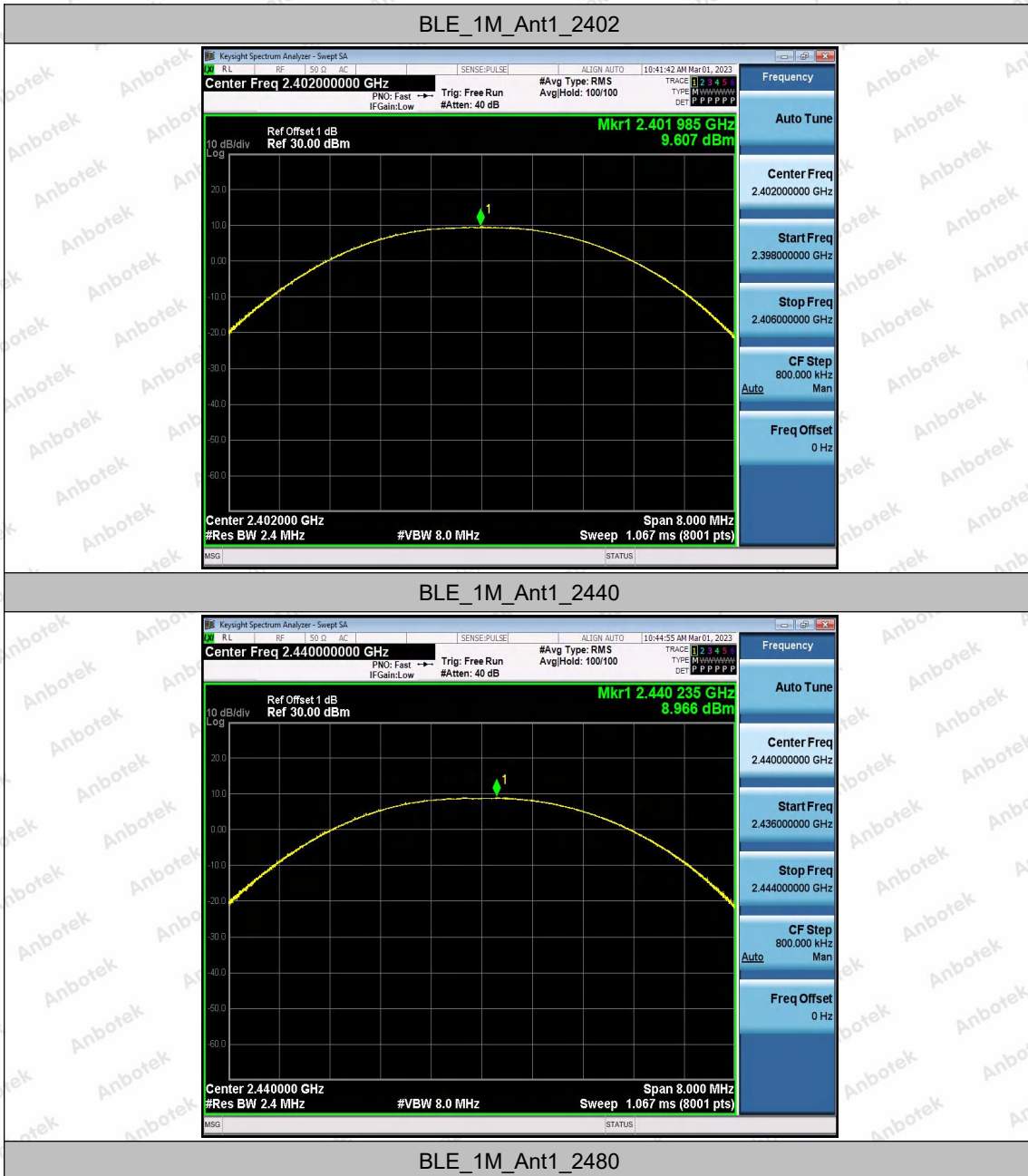
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	9.61	≤30	PASS
		2440	8.97	≤30	PASS
		2480	8.7	≤30	PASS
BLE_2M	Ant1	2402	9.39	≤30	PASS
		2440	8.81	≤30	PASS
		2480	8.56	≤30	PASS



Test Graphs Peak

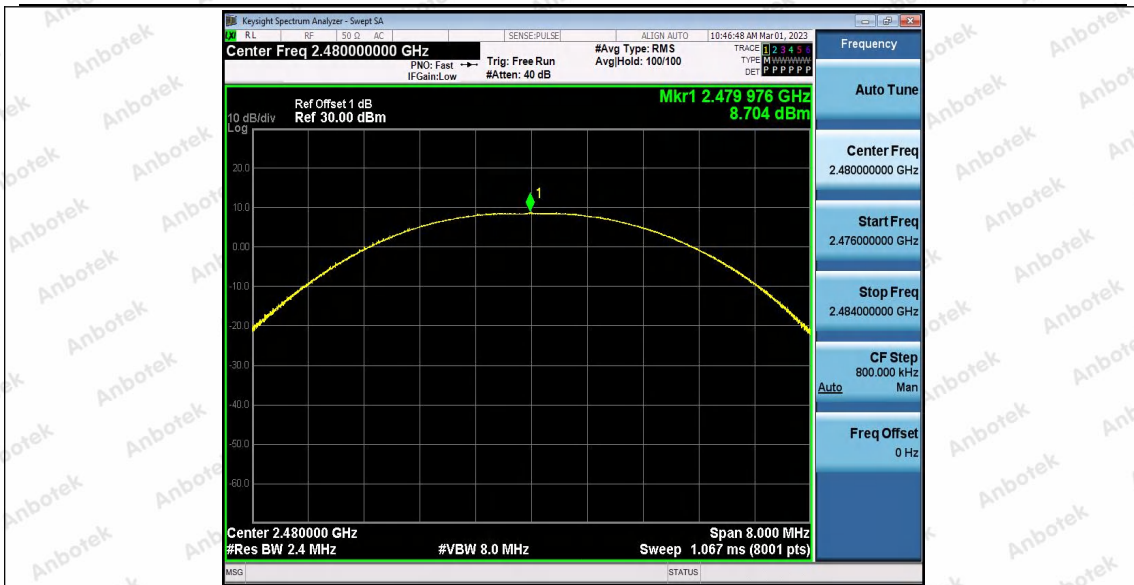


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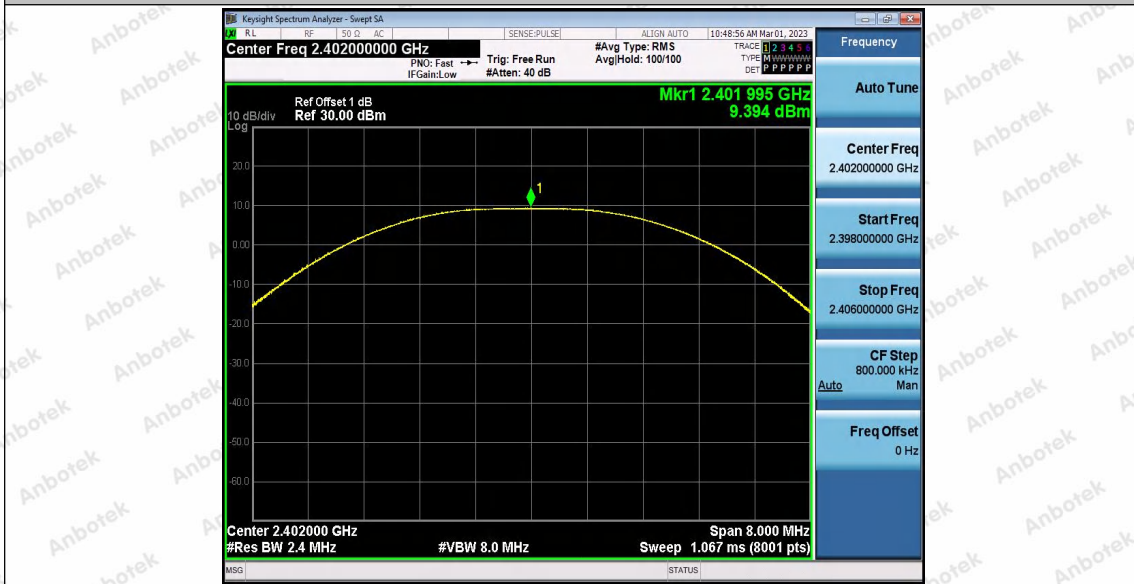
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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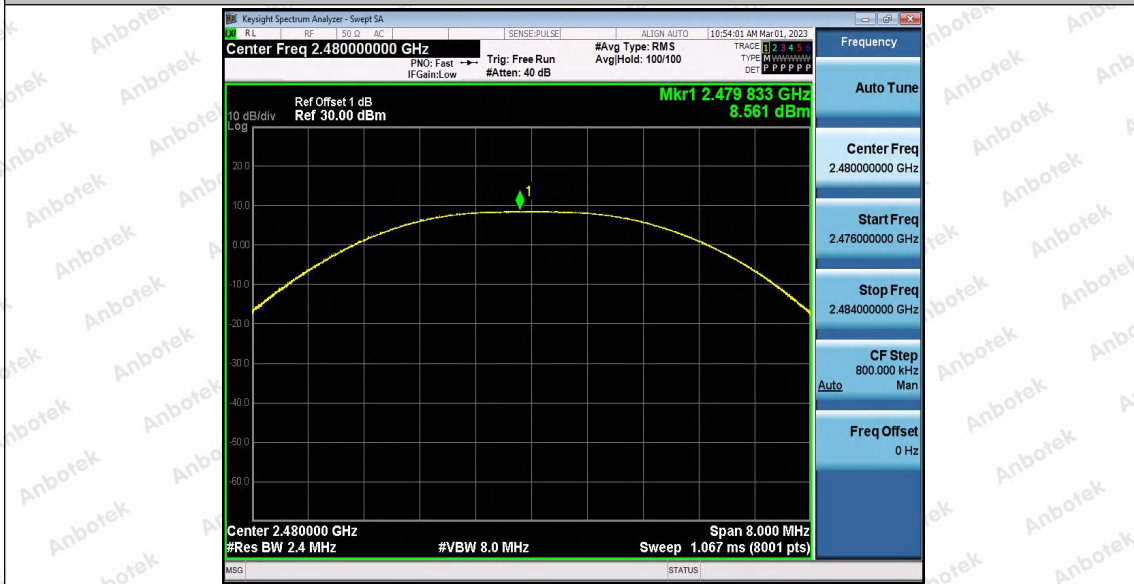
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BLE_2M_Ant1_2480



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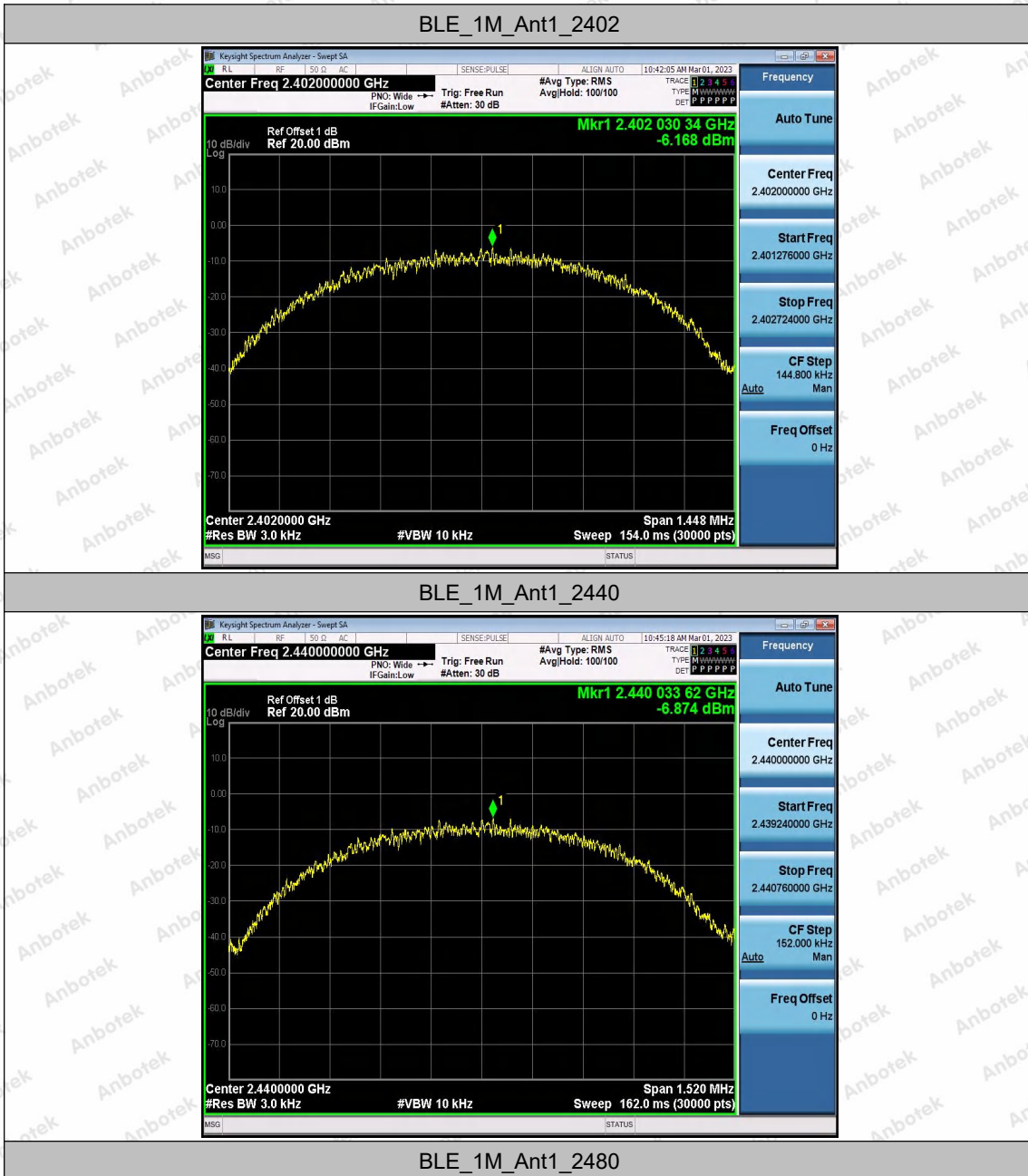
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-6.17	≤8.00	PASS
		2440	-6.87	≤8.00	PASS
		2480	-7.03	≤8.00	PASS
BLE_2M	Ant1	2402	-9.68	≤8.00	PASS
		2440	-10.53	≤8.00	PASS
		2480	-11.03	≤8.00	PASS



Test Graphs

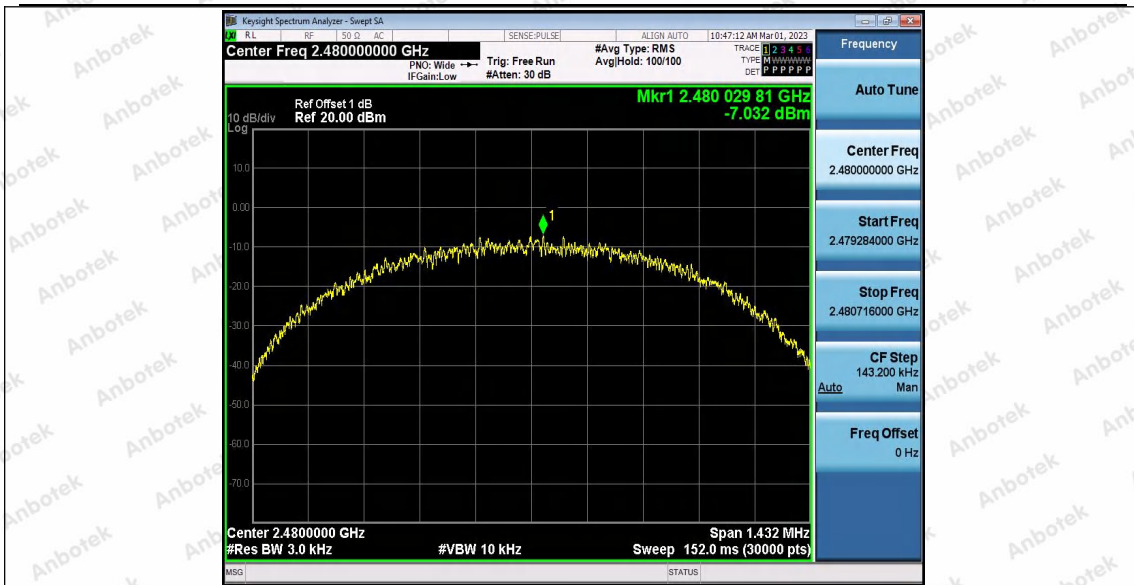


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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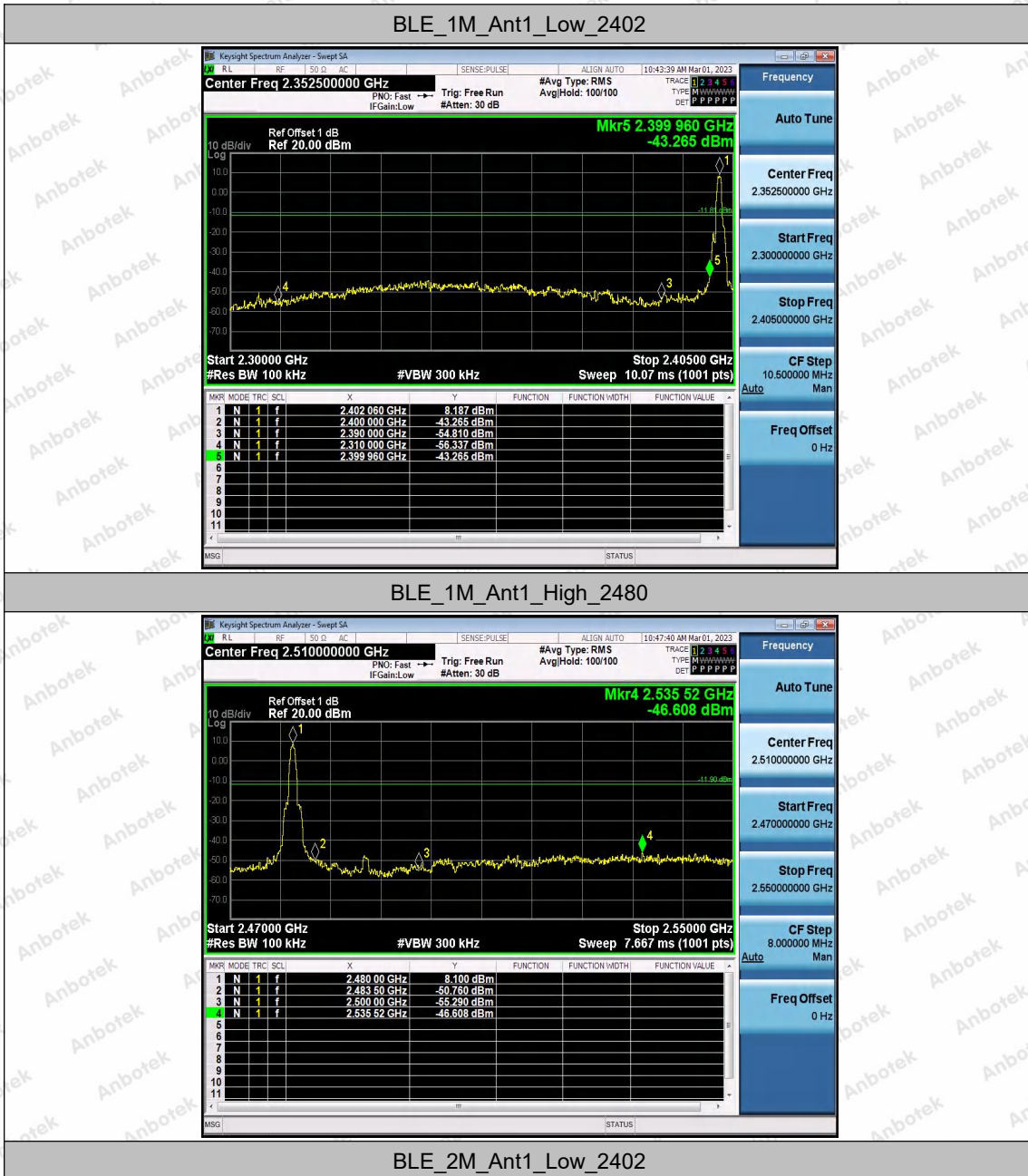
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	8.19	-43.27	≤-11.81	PASS
		High	2480	8.10	-46.61	≤-11.9	PASS
BLE_2M	Ant1	Low	2402	7.84	-27.23	≤-12.17	PASS
		High	2480	6.69	-46.45	≤-13.31	PASS



Test Graphs

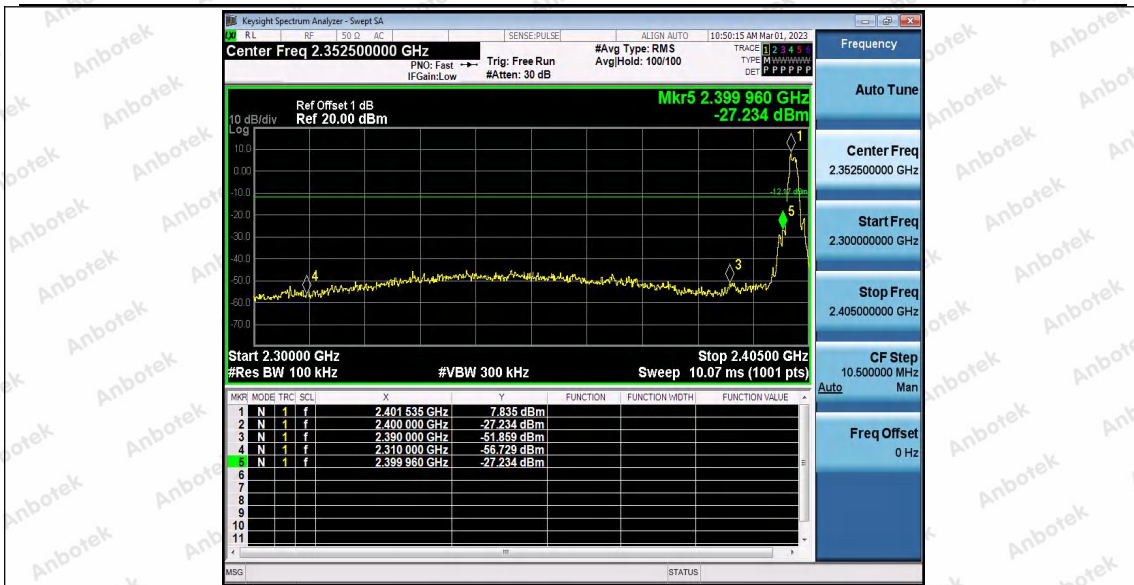


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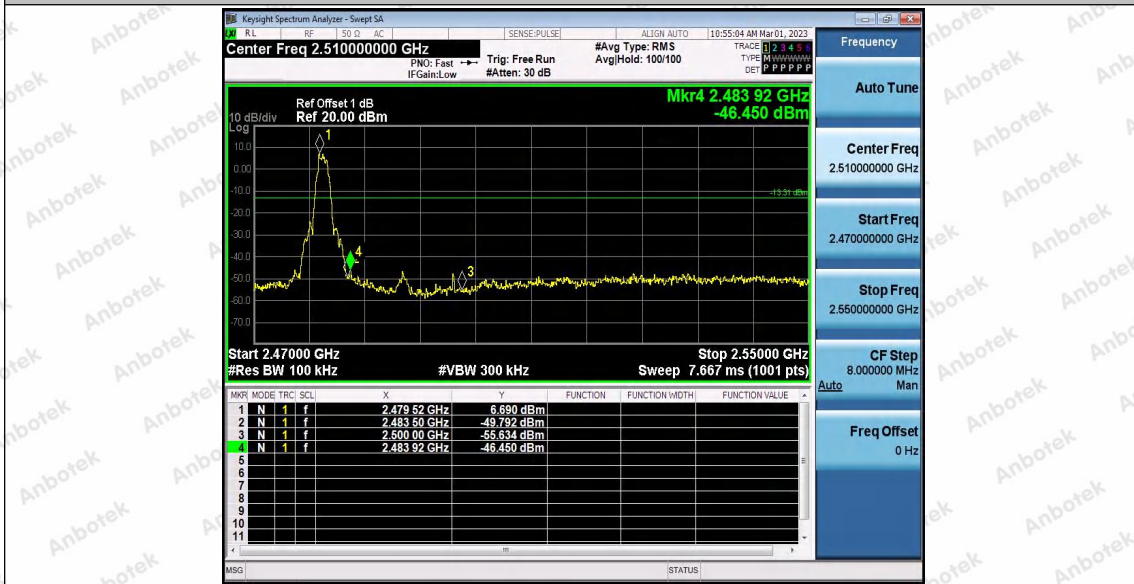
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BLE_2M_Ant1_High_2480



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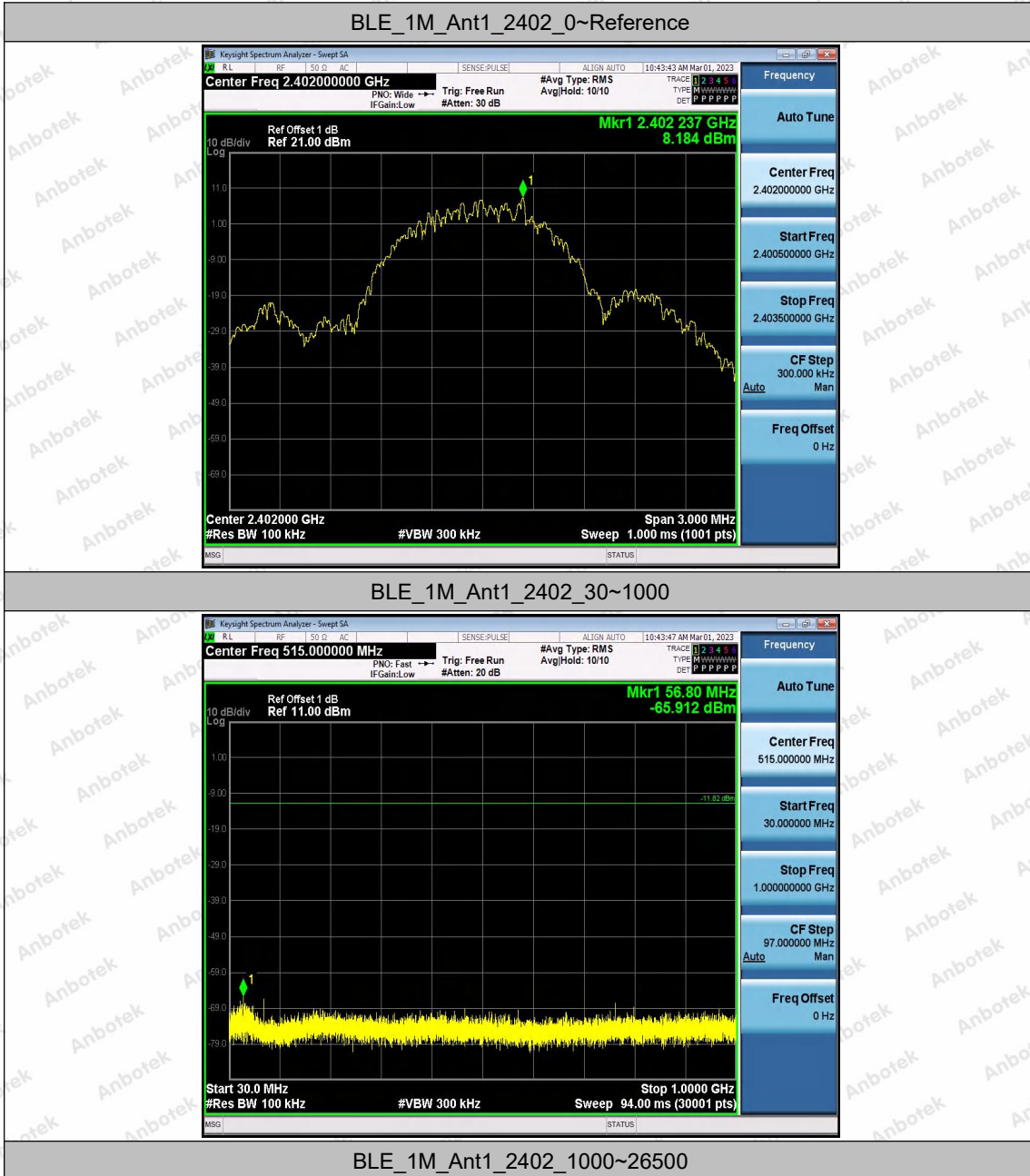
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	Reference	8.18	8.18	---	PASS
			30~1000	8.18	-65.91	≤-11.82	PASS
			1000~26500	8.18	-30.51	≤-11.82	PASS
		2440	Reference	6.48	6.48	---	PASS
			30~1000	6.48	-64.6	≤-13.52	PASS
			1000~26500	6.48	-31.06	≤-13.52	PASS
		2480	Reference	6.86	6.86	---	PASS
			30~1000	6.86	-66.85	≤-13.14	PASS
			1000~26500	6.86	-35.34	≤-13.14	PASS
BLE_2M	Ant1	2402	Reference	7.92	7.92	---	PASS
			30~1000	7.92	-66.38	≤-12.08	PASS
			1000~26500	7.92	-32.91	≤-12.08	PASS
		2440	Reference	5.39	5.39	---	PASS
			30~1000	5.39	-66.57	≤-14.61	PASS
			1000~26500	5.39	-33.97	≤-14.61	PASS
		2480	Reference	4.97	4.97	---	PASS
			30~1000	4.97	-67.02	≤-15.03	PASS
			1000~26500	4.97	-35.98	≤-15.03	PASS



Test Graphs

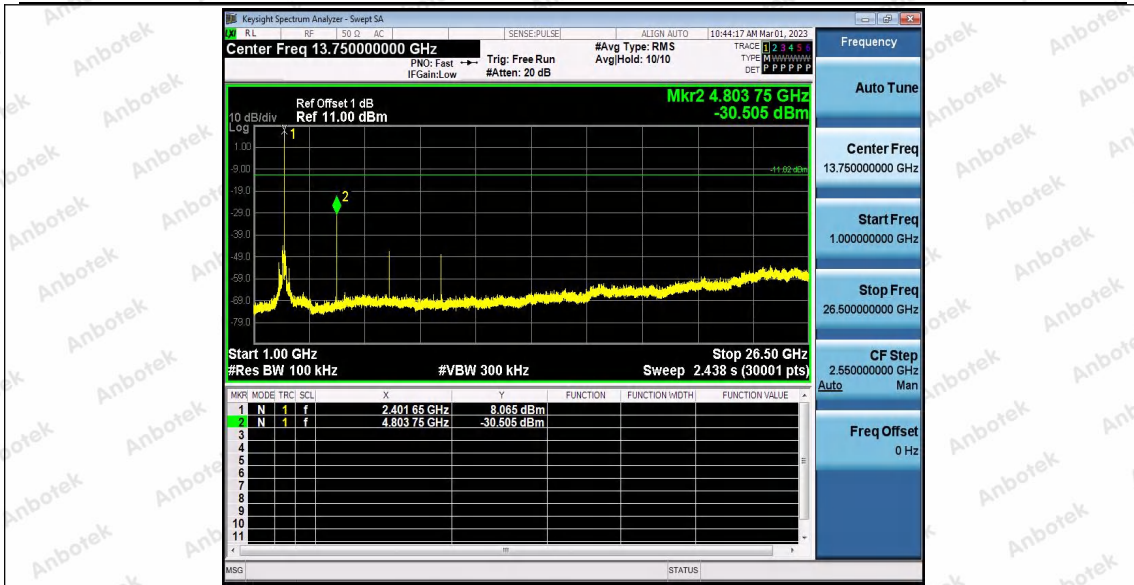


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BLE_1M_Ant1_2440_0~Reference



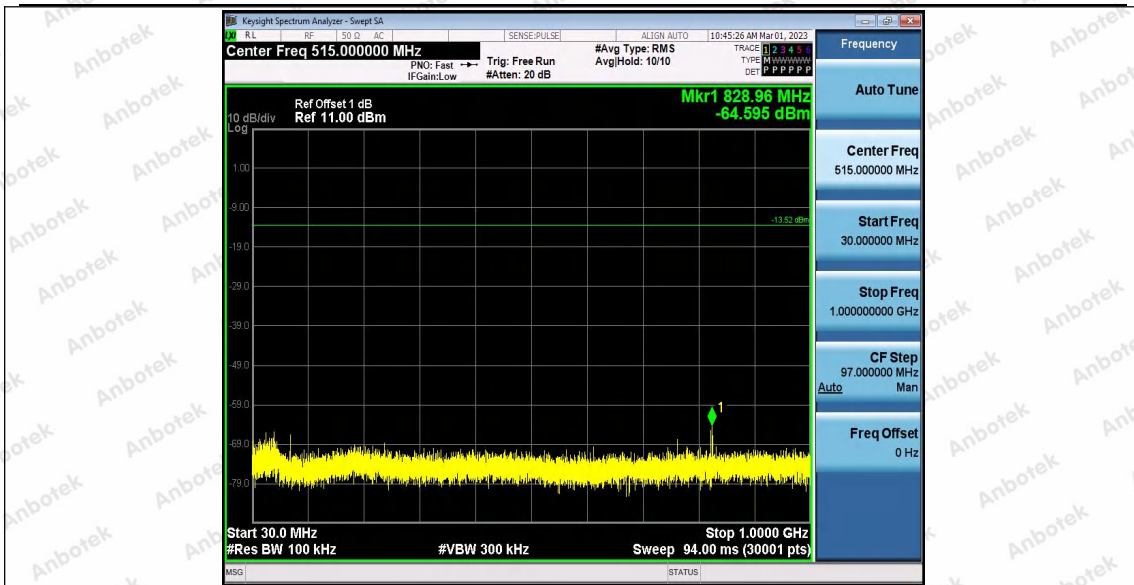
BLE_1M_Ant1_2440_30~1000

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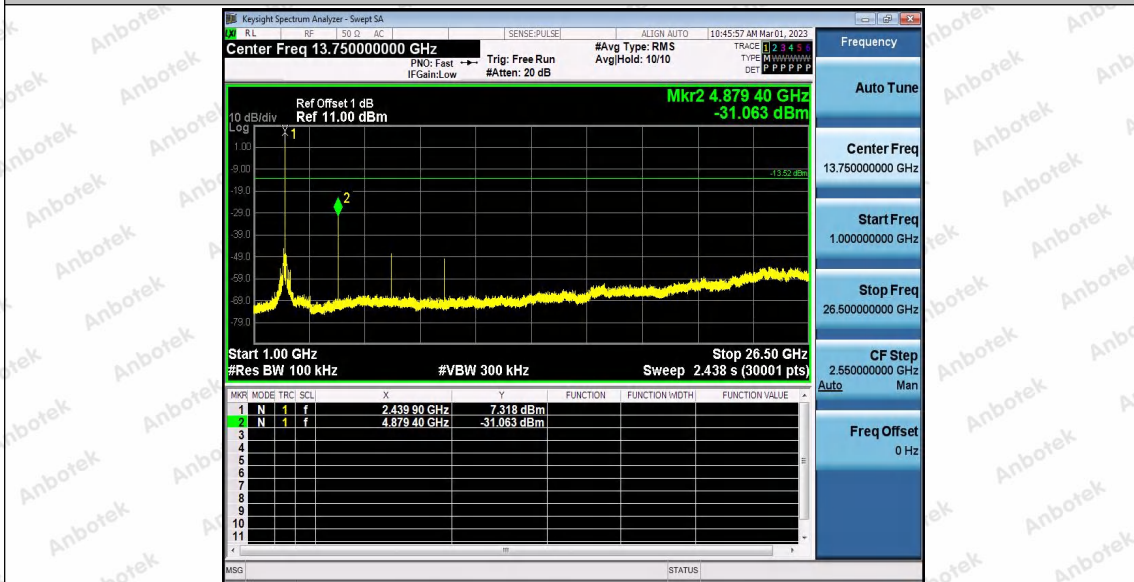
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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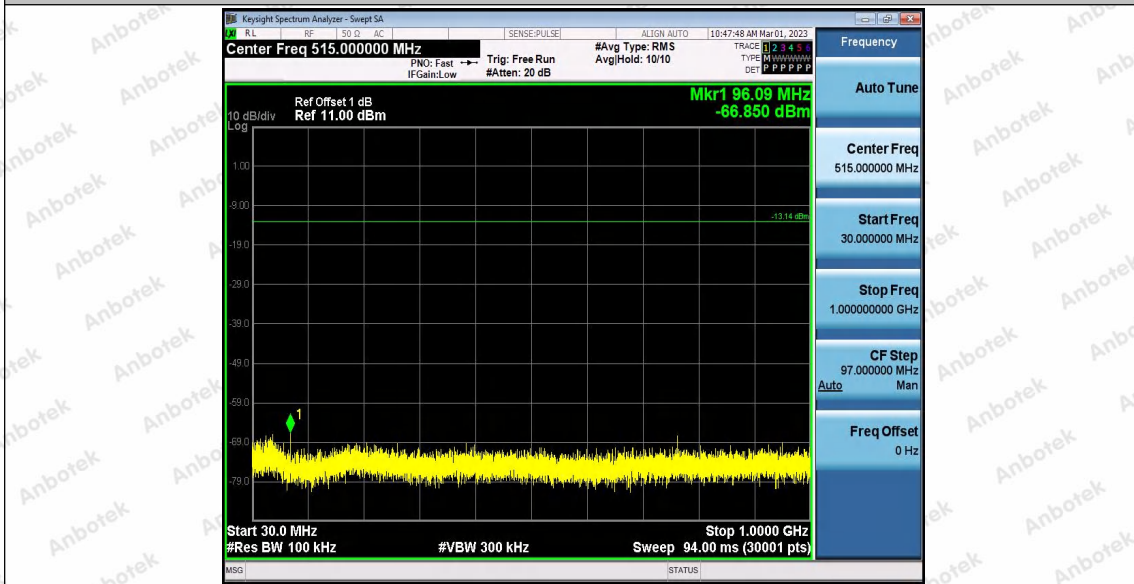
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BLE_1M_Ant1_2480_30~1000



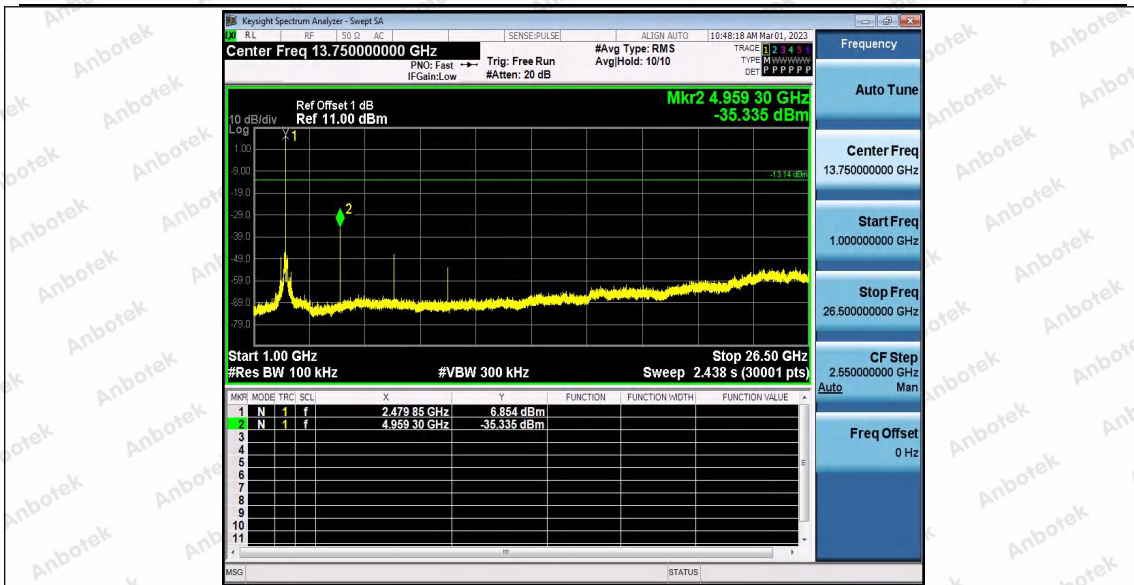
BLE_1M_Ant1_2480_1000~26500

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BLE_2M_Ant1_2402_0~Reference



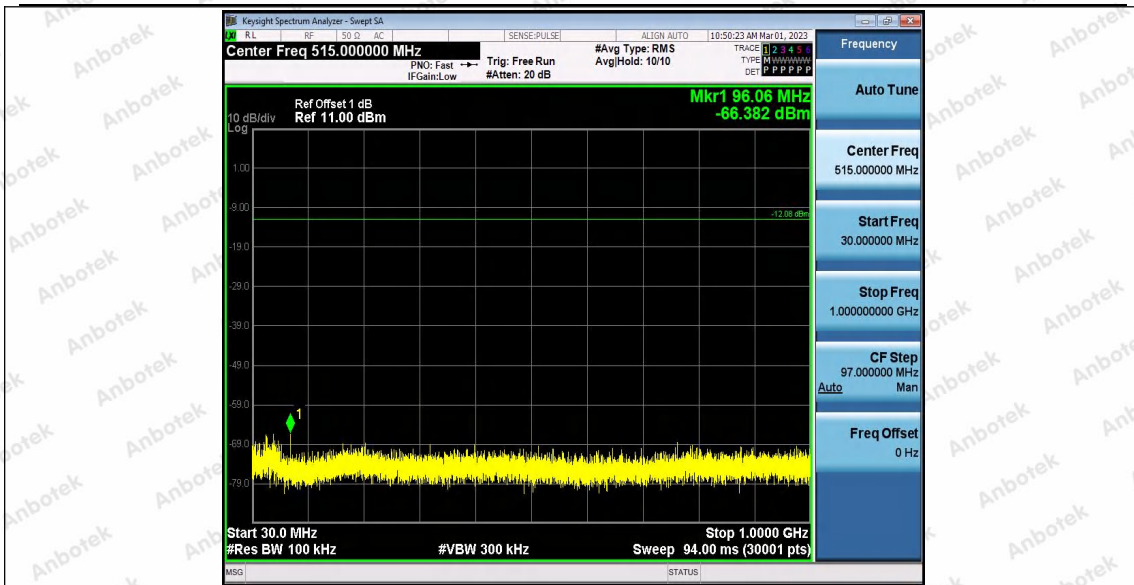
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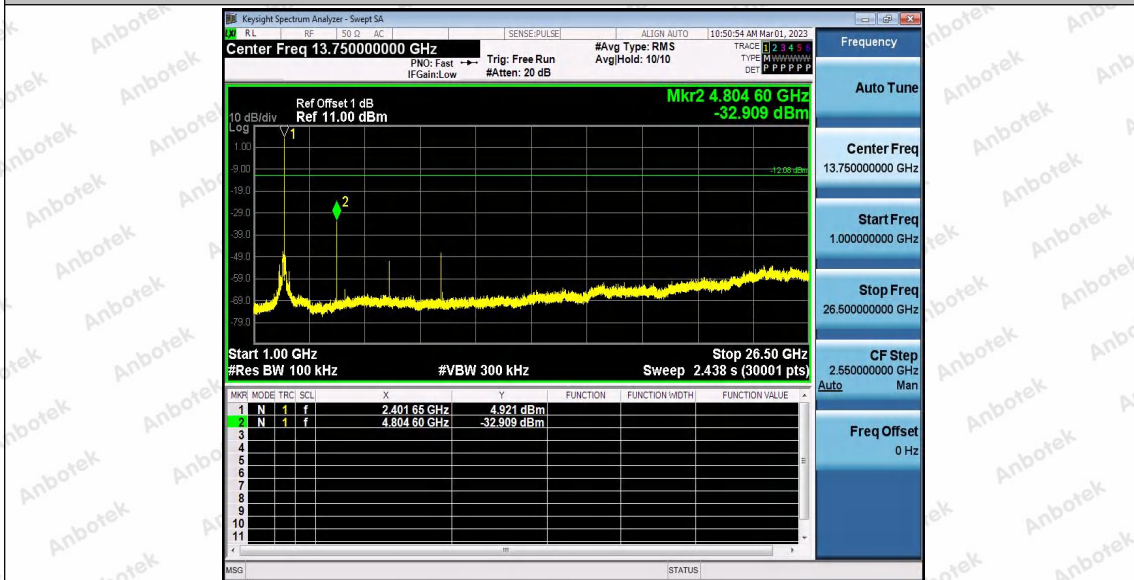
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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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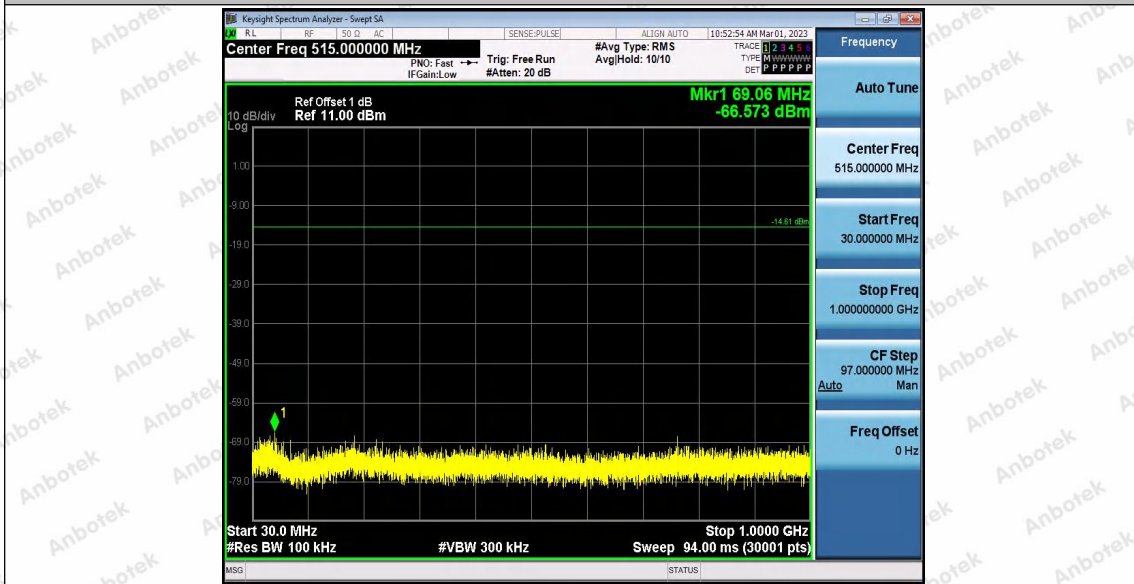
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BLE_2M_Ant1_2440_30~1000



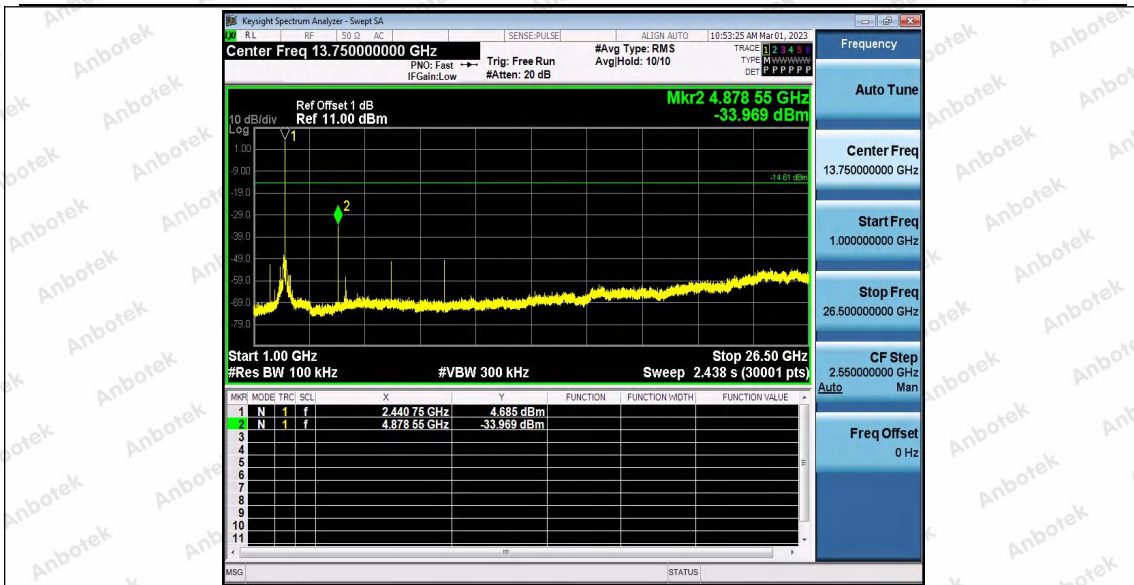
BLE_2M_Ant1_2440_1000~26500

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BLE_2M_Ant1_2480_0~Reference



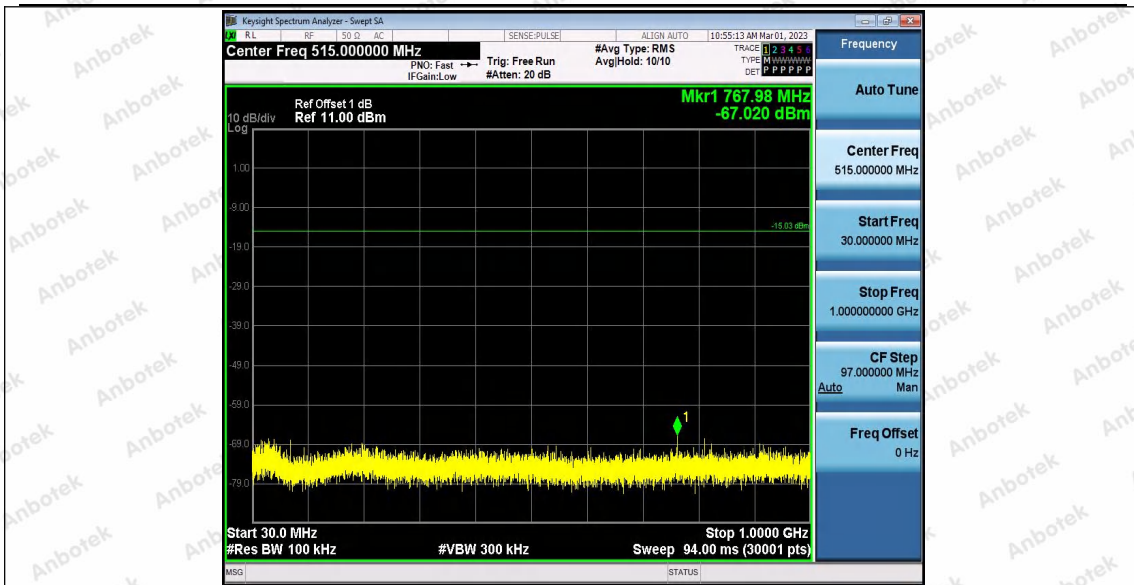
BLE_2M_Ant1_2480_30~1000

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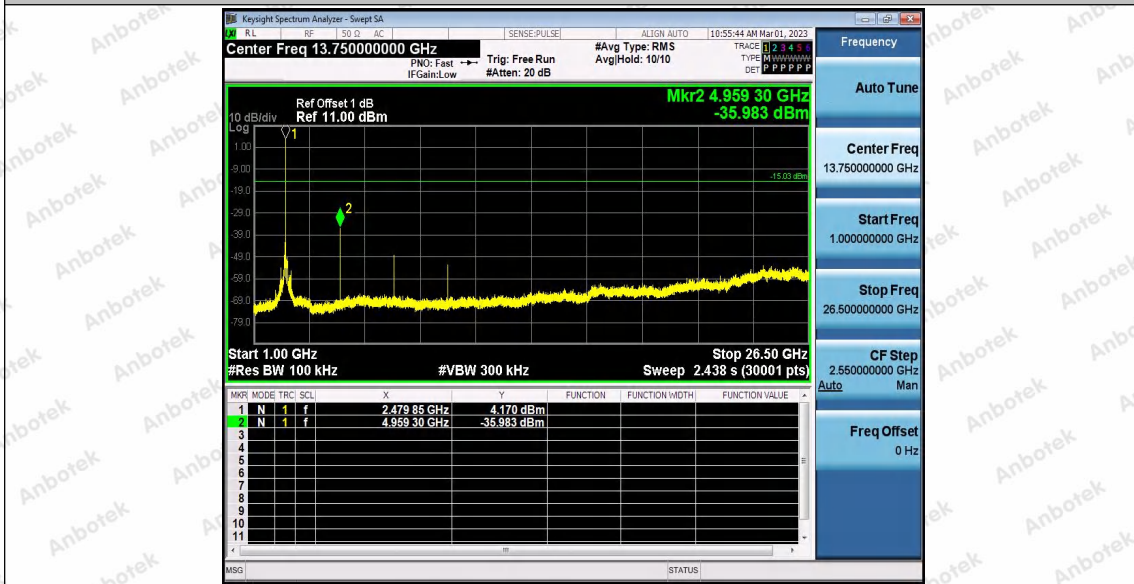
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BLE_2M_Ant1_2480_1000~26500



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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.50	85.20	0.70
		2440	2.13	2.50	85.20	0.70
		2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	1.08	1.26	85.71	0.67
		2440	1.08	1.26	85.71	0.67
		2480	1.08	1.26	85.71	0.67

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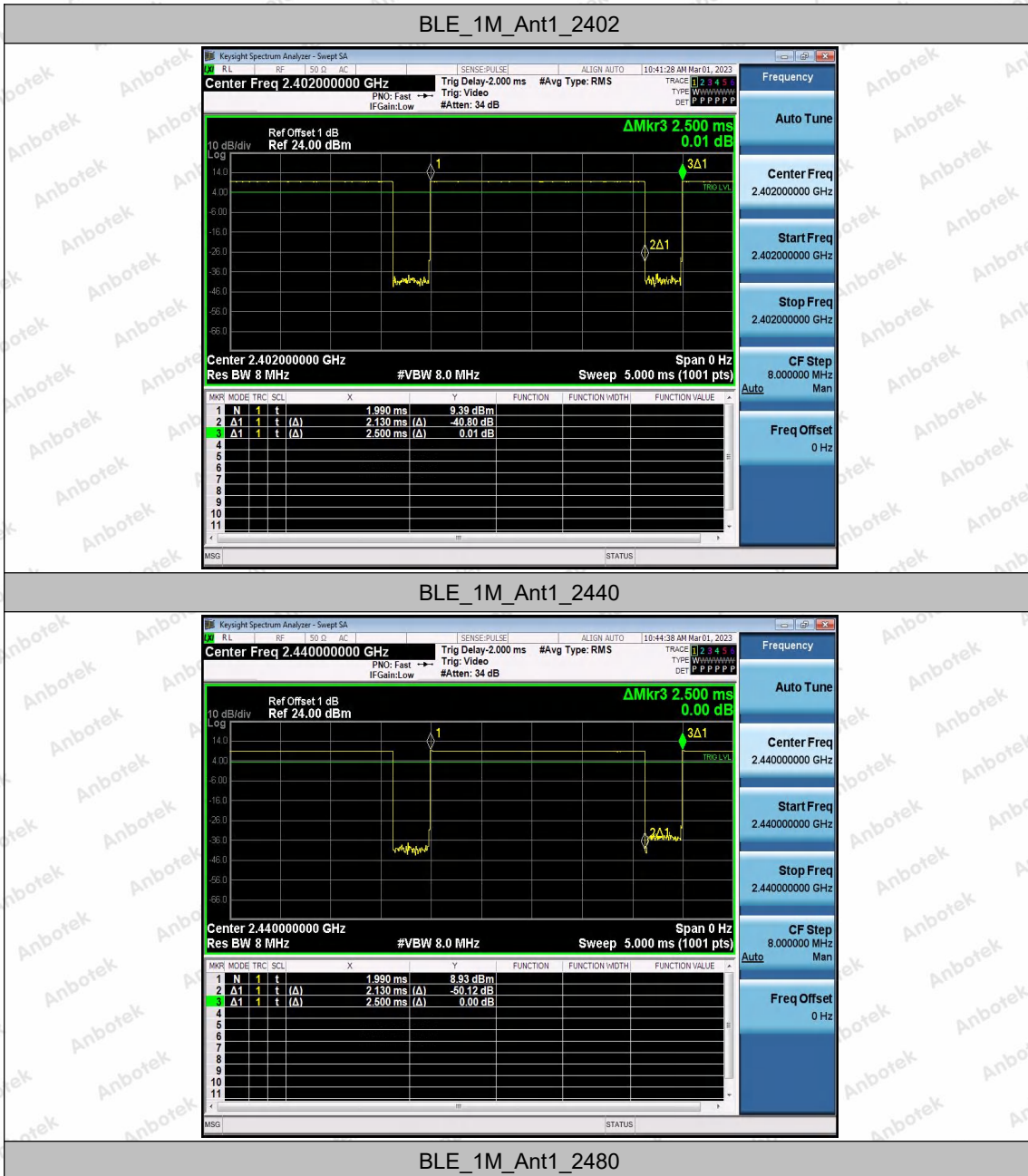
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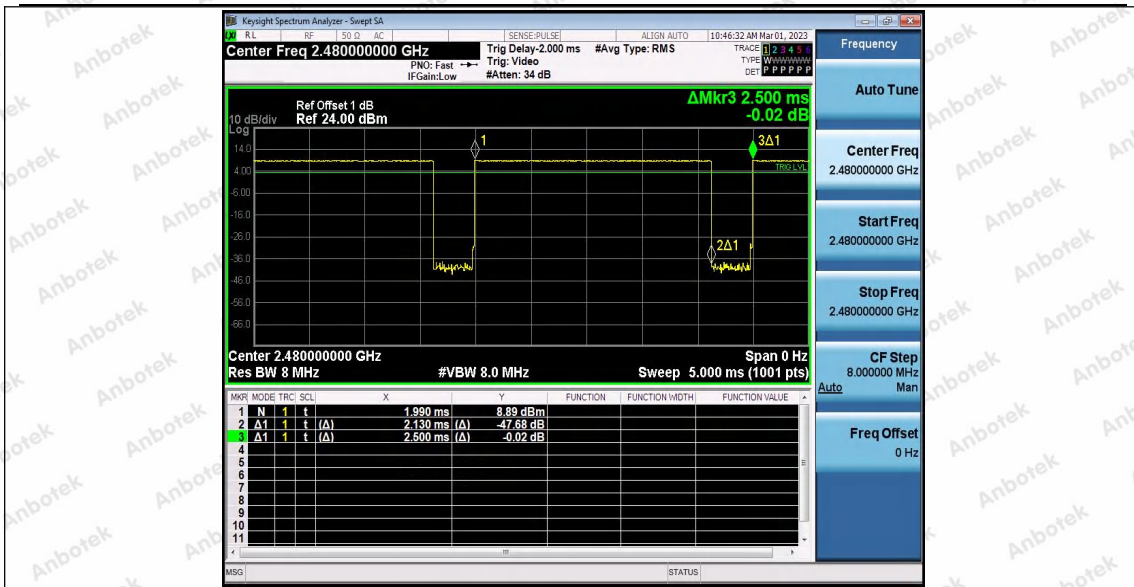


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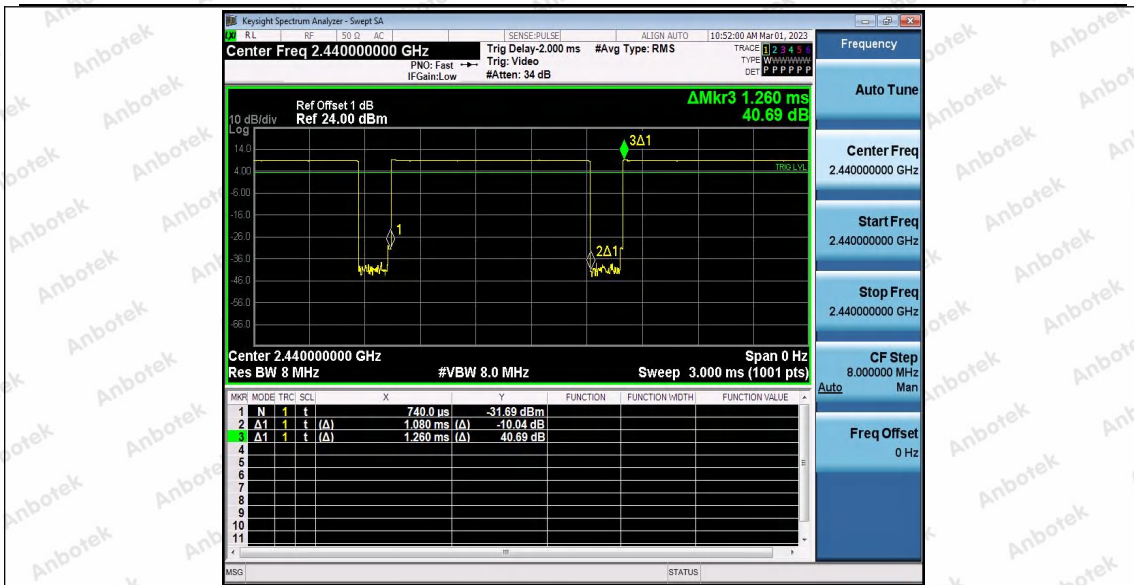


BLE_2M_Ant1_2402

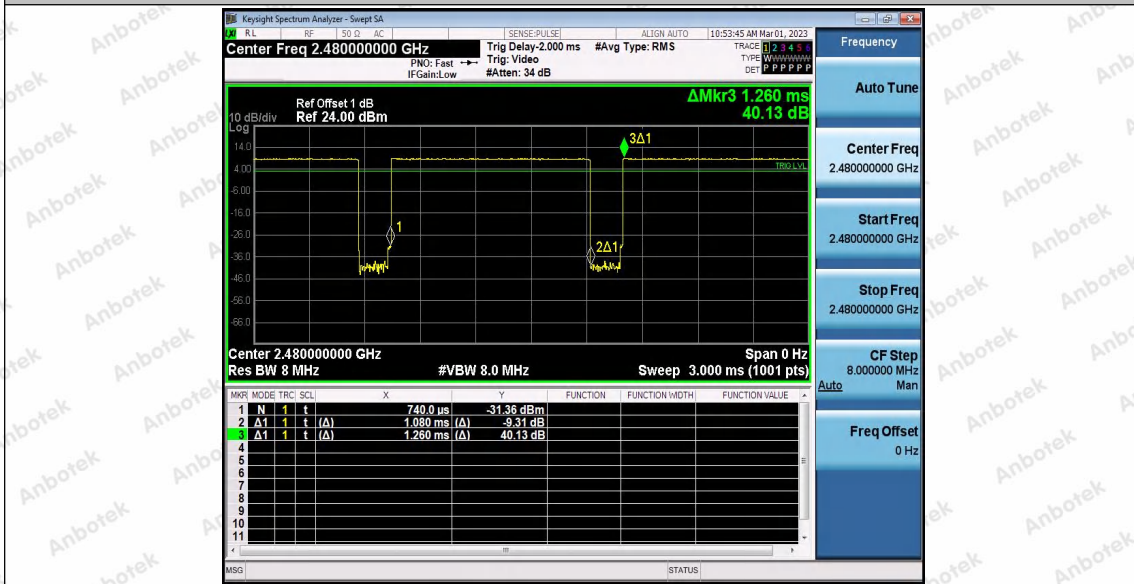


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



---End---

