

Appendix Test Data

Report No.:	18220WC30040201	Test Sample No.:	1-2-2
Start Test Date:	2023.03.14	Finish Test Date:	2023.03.22
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	26.6°C	Relative Humidity:	47%
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	0.668	2401.668	2402.336	0.5	PASS
		2440	0.696	2439.640	2440.336	0.5	PASS
		2480	0.680	2479.656	2480.336	0.5	PASS
BLE_2M	Ant1	2402	1.060	2401.436	2402.496	0.5	PASS
		2440	1.072	2439.416	2440.488	0.5	PASS
		2480	1.040	2479.436	2480.476	0.5	PASS

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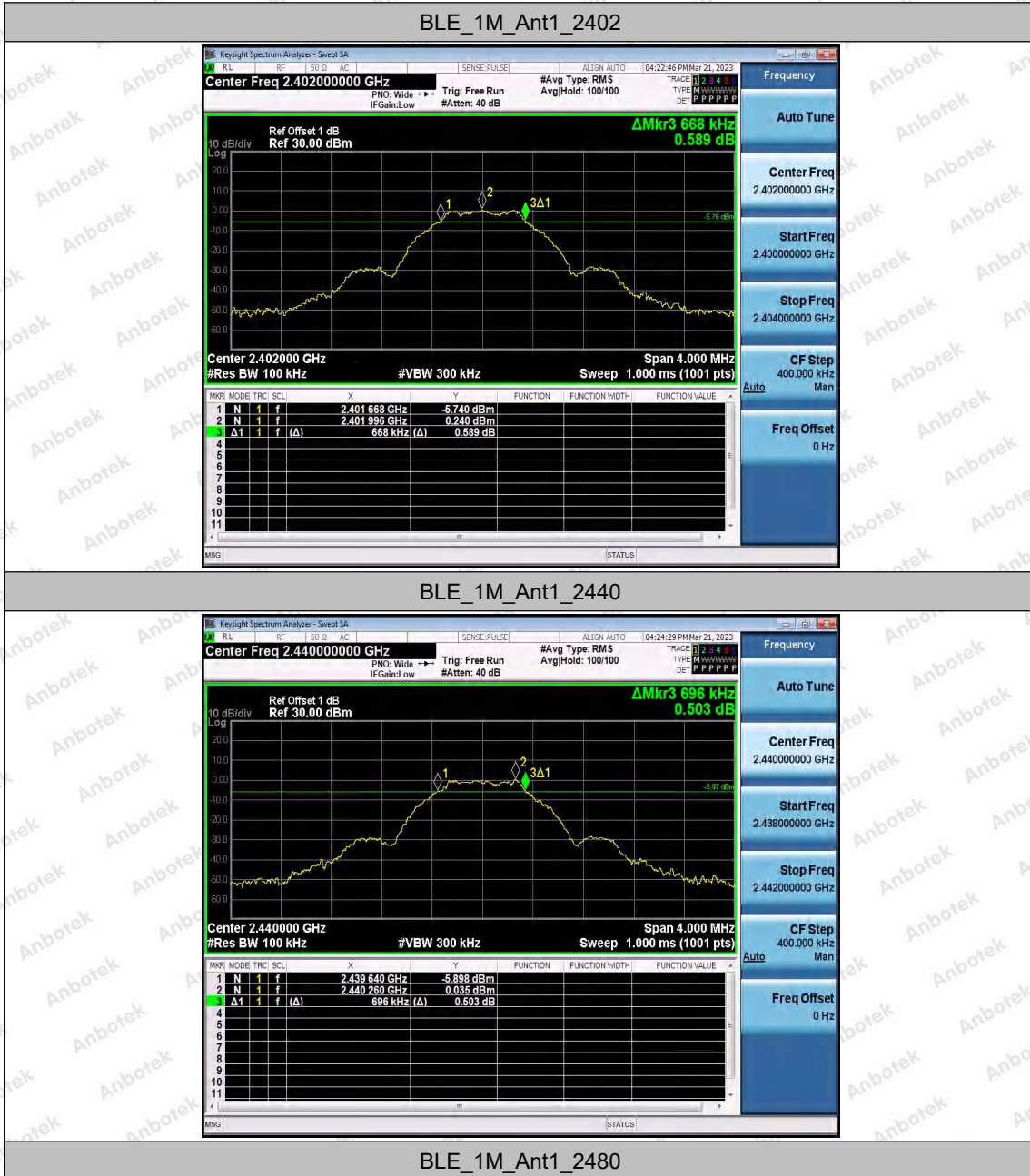
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Test Graphs



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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: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0315	2401.4957	2402.5272
		2440	1.0325	2439.4962	2440.5287
		2480	1.0267	2479.4955	2480.5222
BLE_2M	Ant1	2402	2.0315	2400.9596	2402.9911
		2440	2.0399	2438.9462	2440.9861
		2480	2.0534	2478.9391	2480.9925

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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

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.19	≤30	PASS
		2440	1.20	≤30	PASS
		2480	-0.03	≤30	PASS
BLE_2M	Ant1	2402	-0.79	≤30	PASS
		2440	-1.42	≤30	PASS
		2480	-1.05	≤30	PASS

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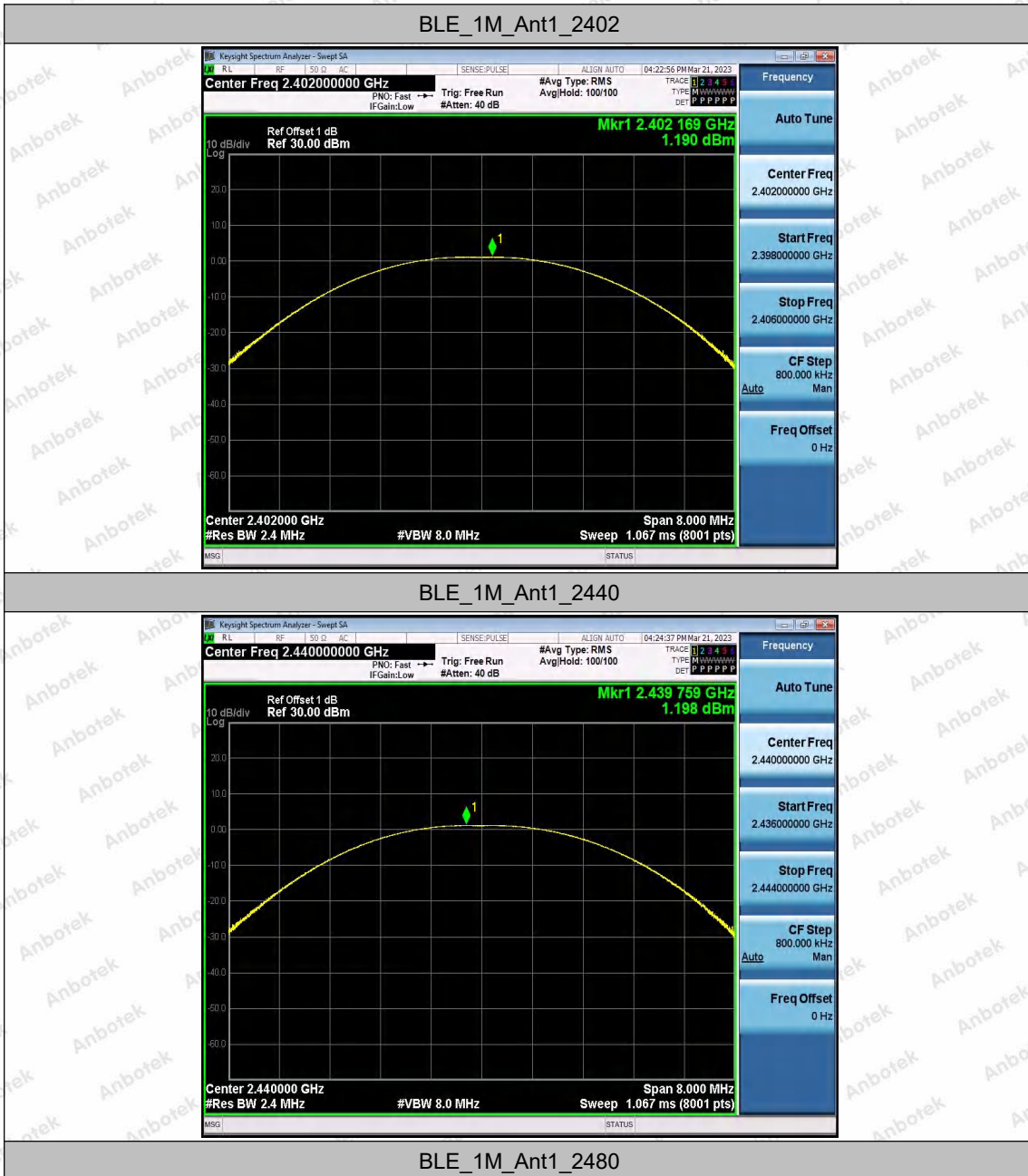
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Test Graphs Peak



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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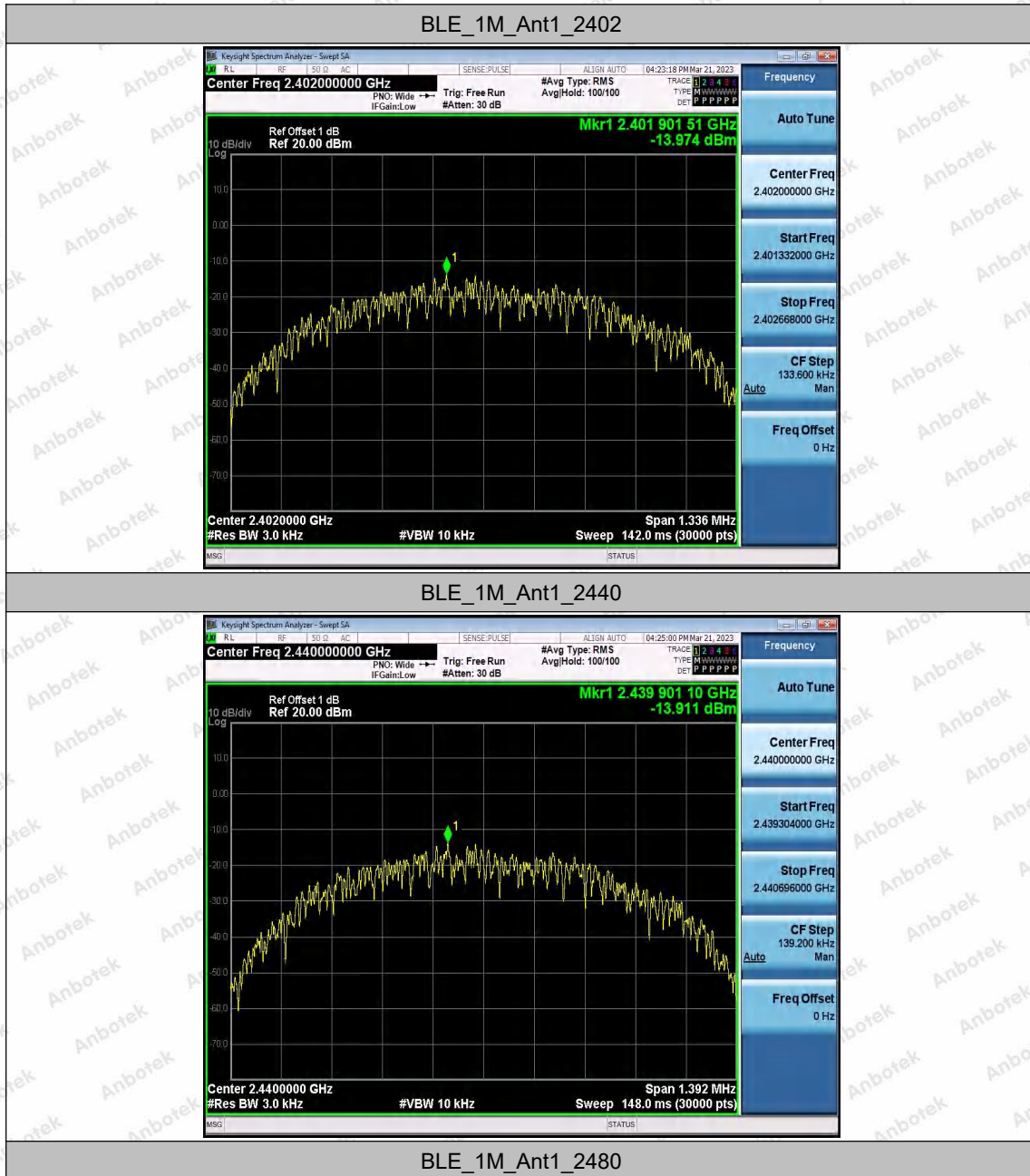
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.97	≤8.00	PASS
		2440	-13.91	≤8.00	PASS
		2480	-15.09	≤8.00	PASS
BLE_2M	Ant1	2402	-17.96	≤8.00	PASS
		2440	-18.34	≤8.00	PASS
		2480	-17.95	≤8.00	PASS



Test Graphs

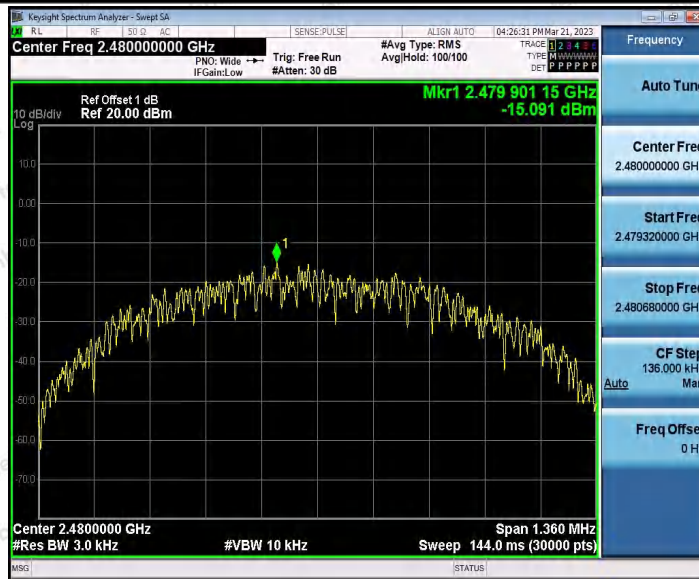


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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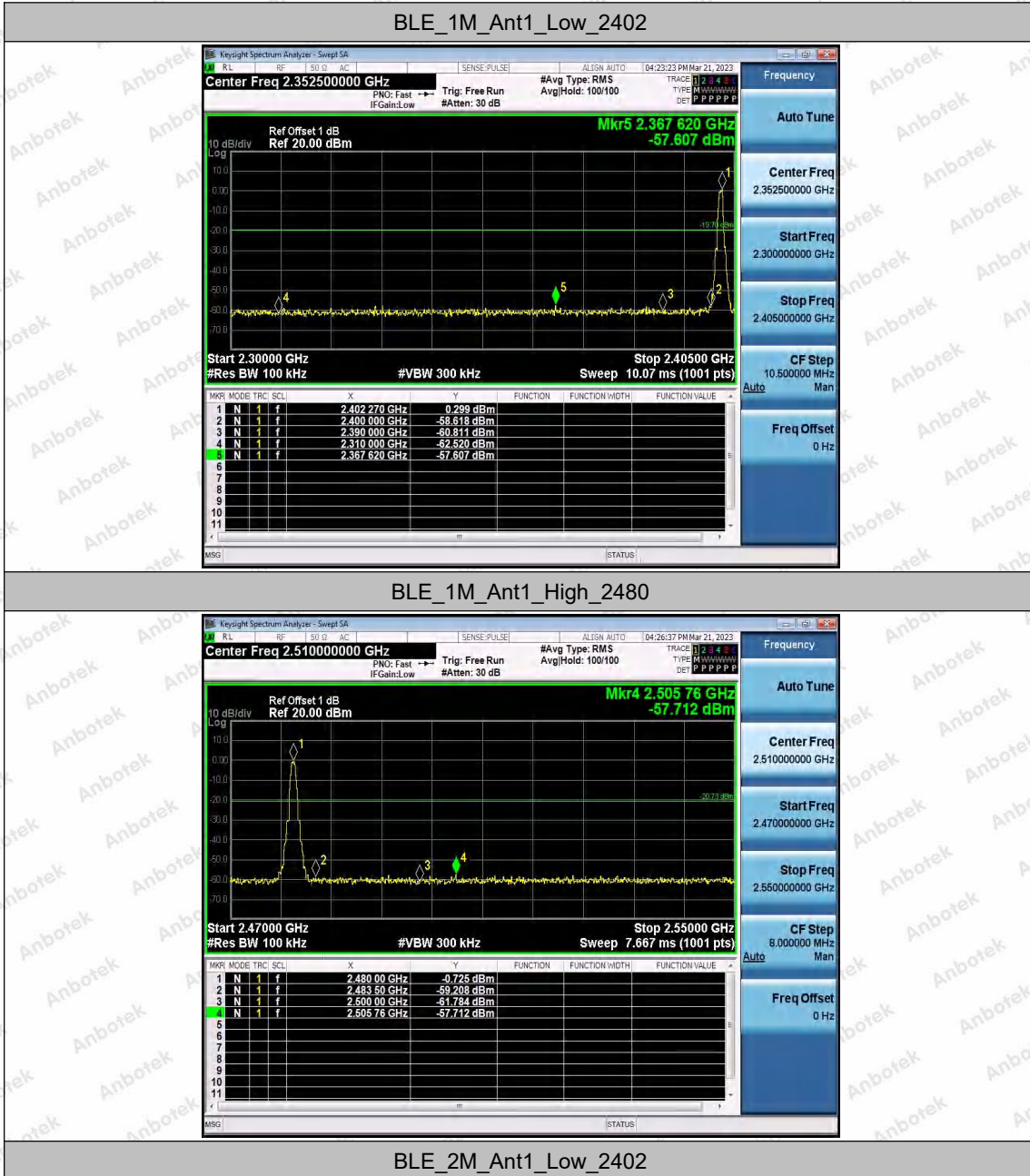
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.30	-57.61	≤-19.7	PASS
		High	2480	-0.73	-57.71	≤-20.73	PASS
BLE_2M	Ant1	Low	2402	-3.82	-49.67	≤-23.82	PASS
		High	2480	-3.21	-57.42	≤-23.21	PASS



Test Graphs

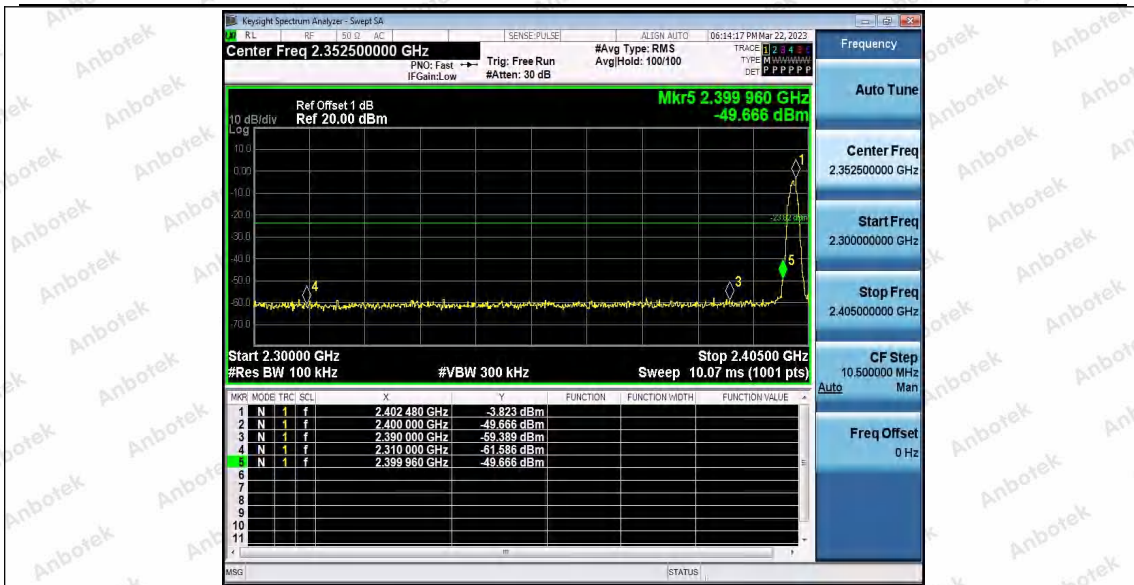


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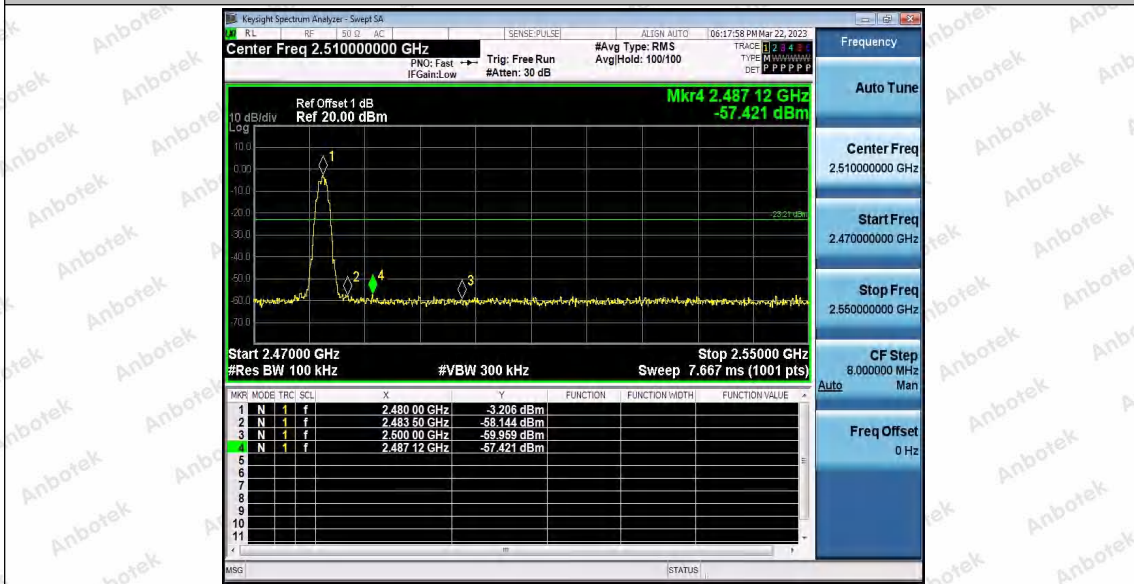
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BLE_2M_Ant1_High_2480



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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	-0.43	-0.43	---	PASS
			30~1000	-0.43	-68.24	≤-20.43	PASS
			1000~26500	-0.43	-53.25	≤-20.43	PASS
		2440	Reference	-0.02	-0.02	---	PASS
			30~1000	-0.02	-68.29	≤-20.02	PASS
			1000~26500	-0.02	-52.67	≤-20.02	PASS
		2480	Reference	-1.16	-1.16	---	PASS
			30~1000	-1.16	-68.81	≤-21.16	PASS
			1000~26500	-1.16	-52.51	≤-21.16	PASS
BLE_2M	Ant1	2402	Reference	-4.57	-4.57	---	PASS
			30~1000	-4.57	-66.68	≤-24.57	PASS
			1000~26500	-4.57	-53.23	≤-24.57	PASS
		2440	Reference	-3.14	-3.14	---	PASS
			30~1000	-3.14	-68.66	≤-23.14	PASS
			1000~26500	-3.14	-53.75	≤-23.14	PASS
		2480	Reference	-4.40	-4.40	---	PASS
			30~1000	-4.40	-68.71	≤-24.4	PASS
			1000~26500	-4.40	-53.1	≤-24.4	PASS

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Test Graphs

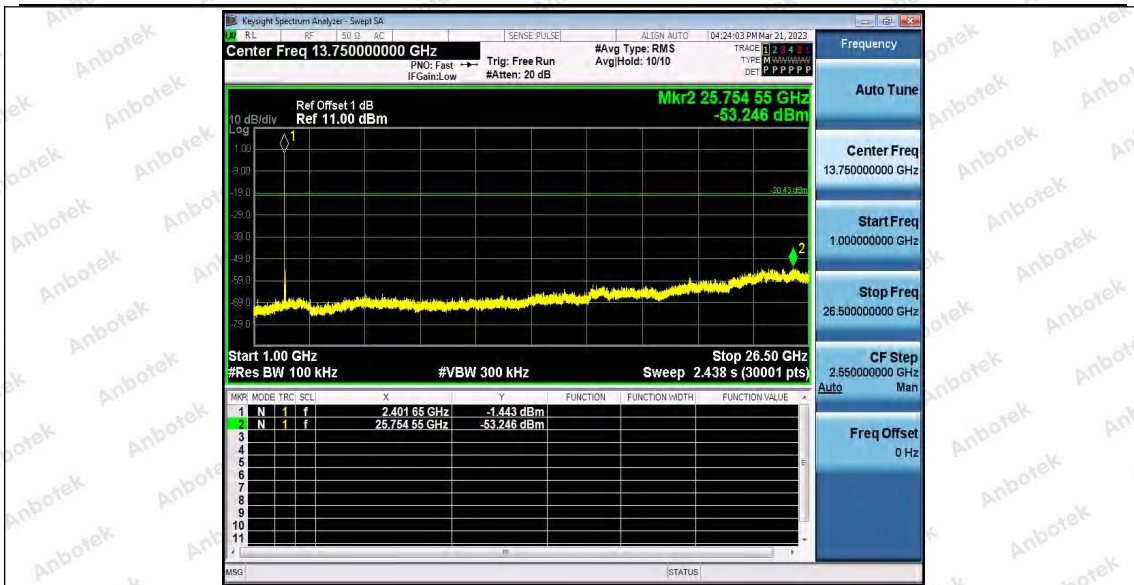


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BLE_1M_Ant1_2440_0~Reference



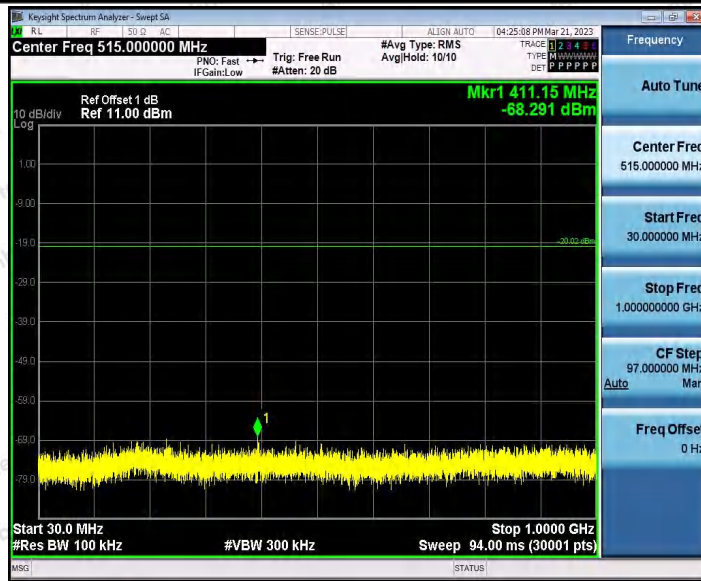
BLE_1M_Ant1_2440_30~1000

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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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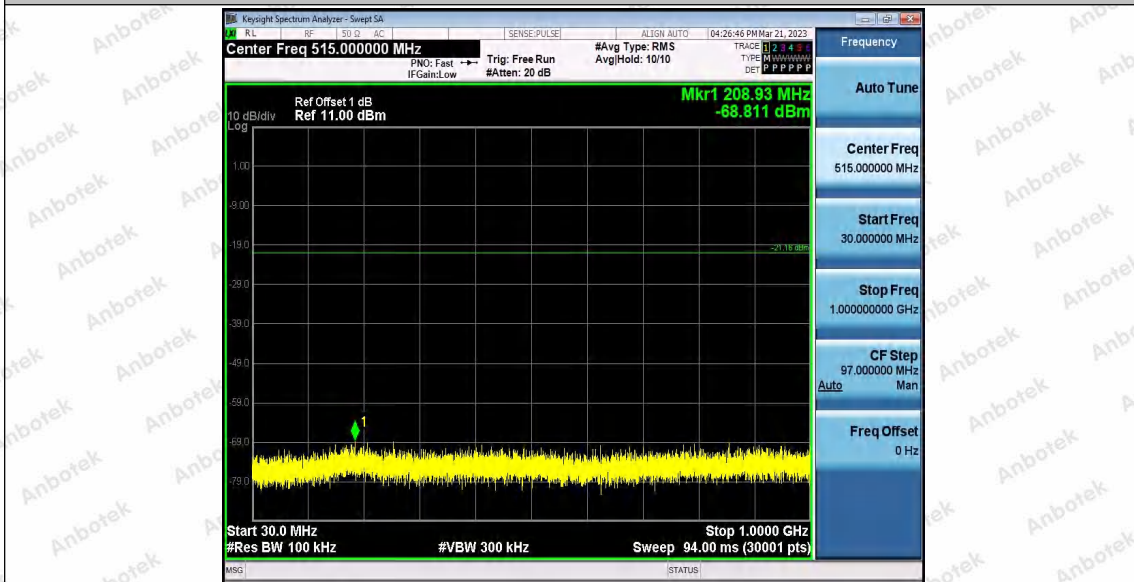
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BLE_1M_Ant1_2480_30~1000



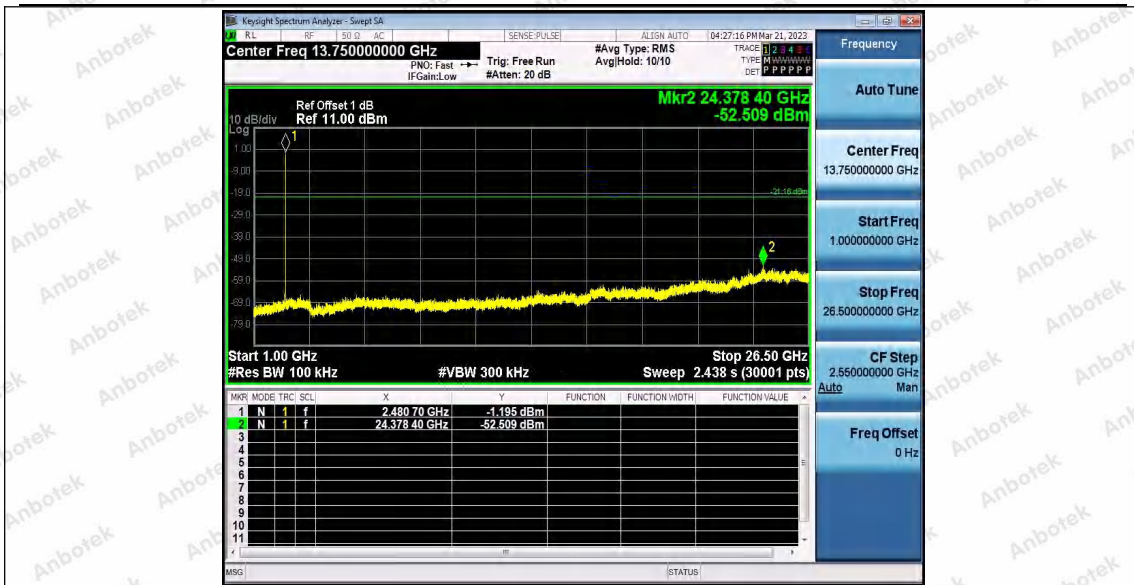
BLE_1M_Ant1_2480_1000~26500

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BLE_2M_Ant1_2402_0~Reference



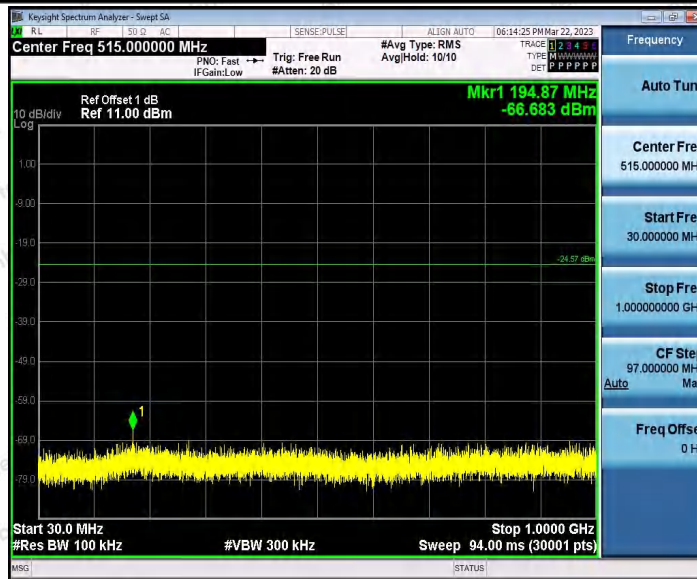
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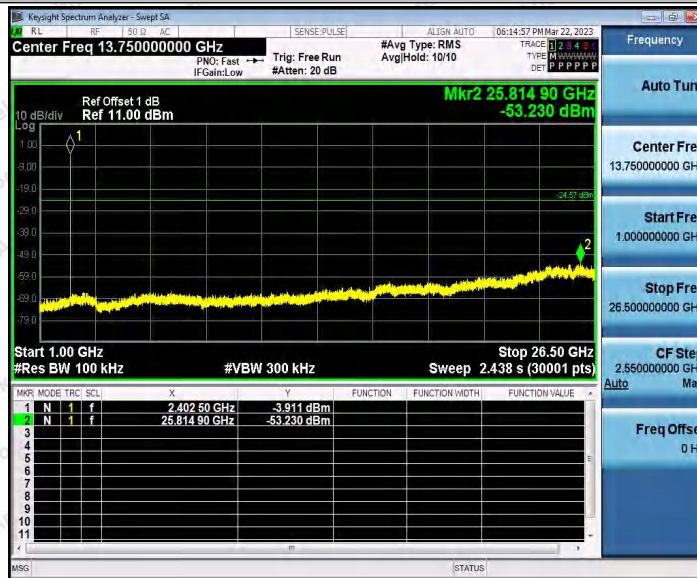
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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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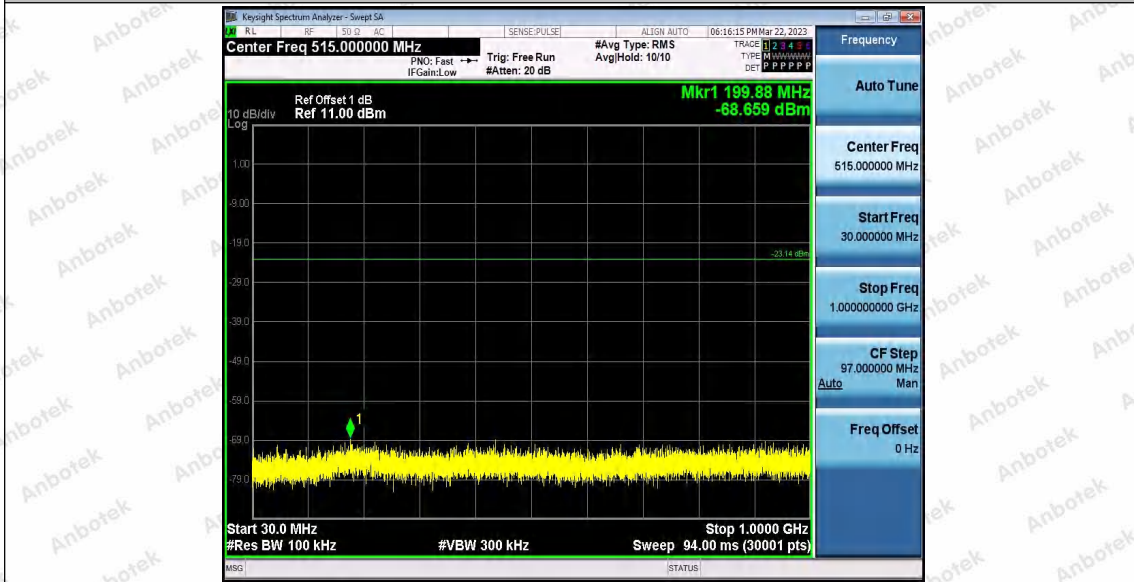
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BLE_2M_Ant1_2440_30~1000



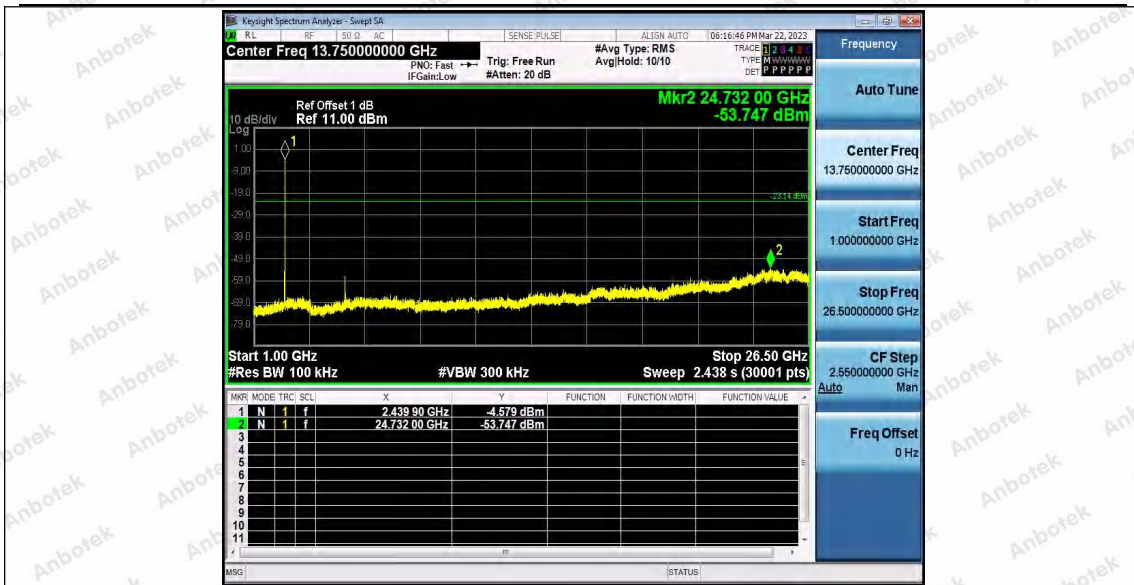
BLE_2M_Ant1_2440_1000~26500

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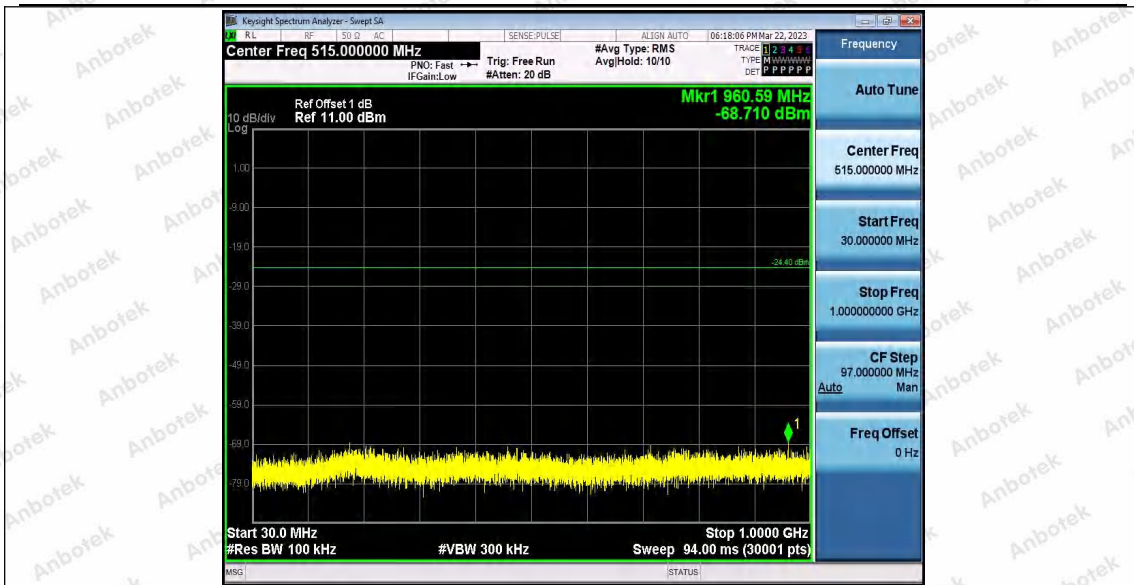
BLE_2M_Ant1_2480_30~1000

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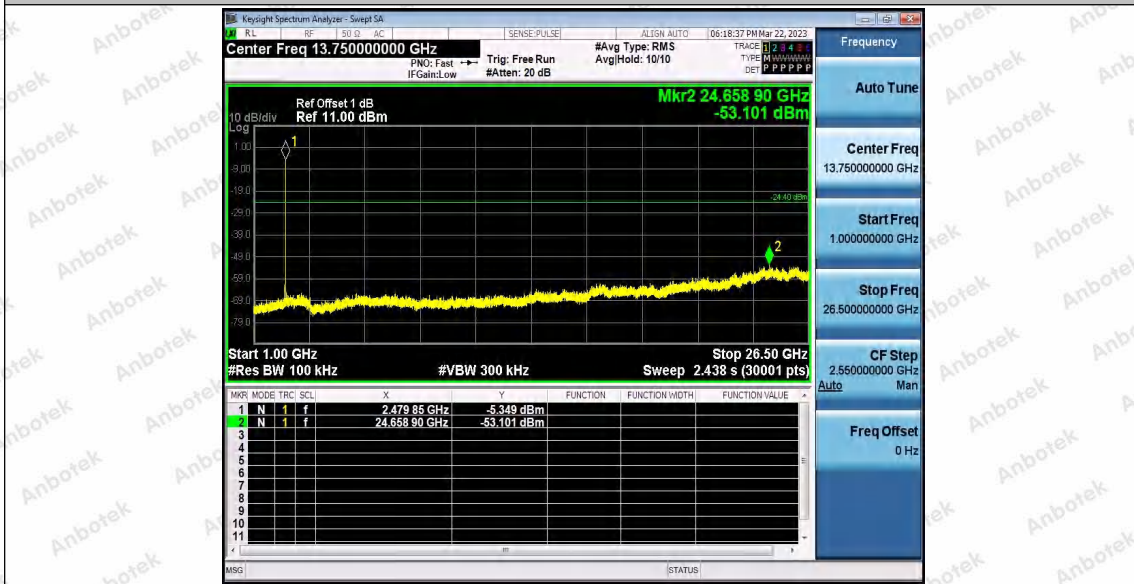
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.38	0.63	60.32	2.20
		2440	0.38	0.63	60.32	2.20
		2480	0.38	0.63	60.32	2.20
BLE_2M	Ant1	2402	1.06	1.87	56.68	2.47
		2440	1.06	1.87	56.68	2.47
		2480	1.06	1.88	56.38	2.49

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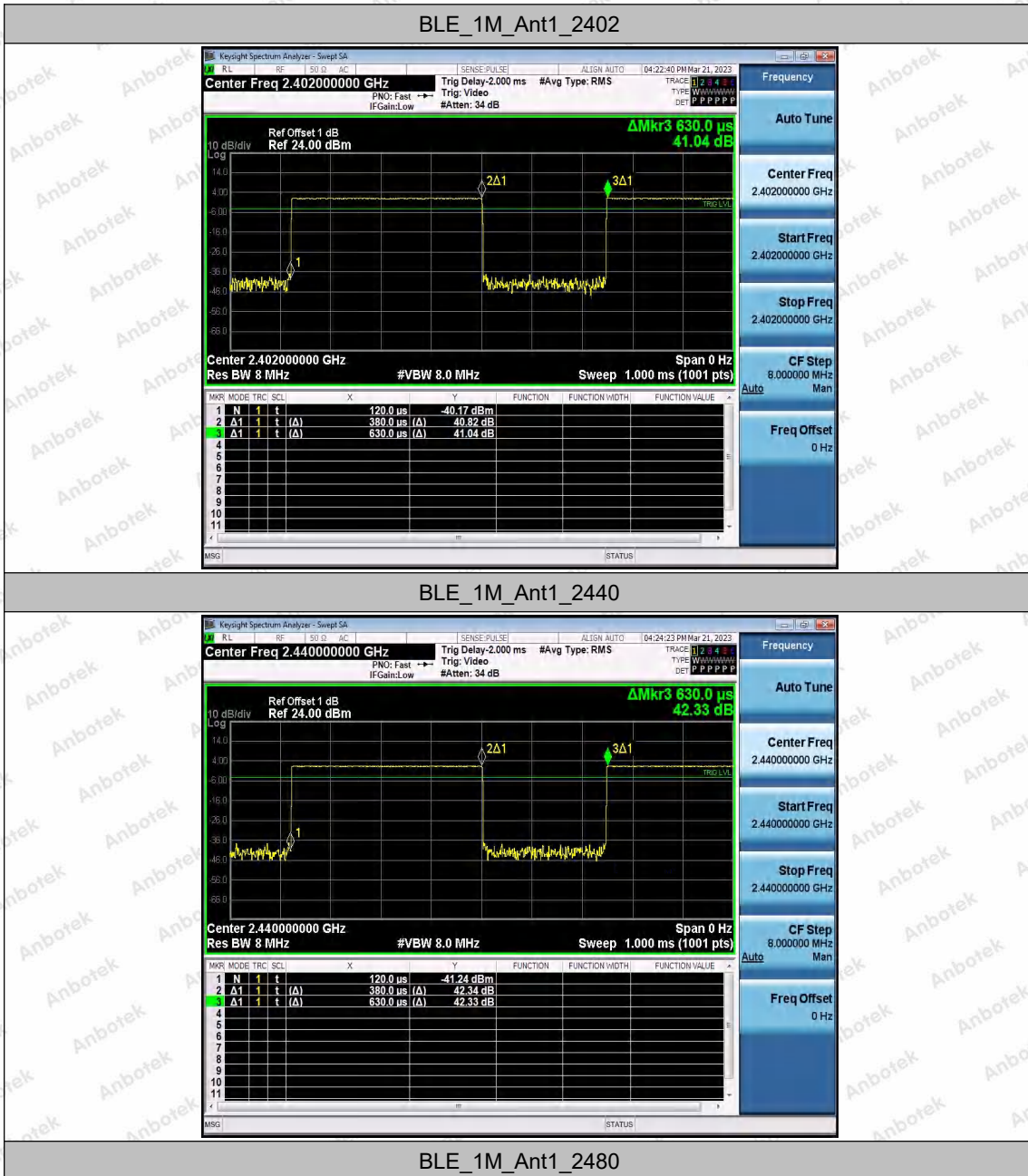
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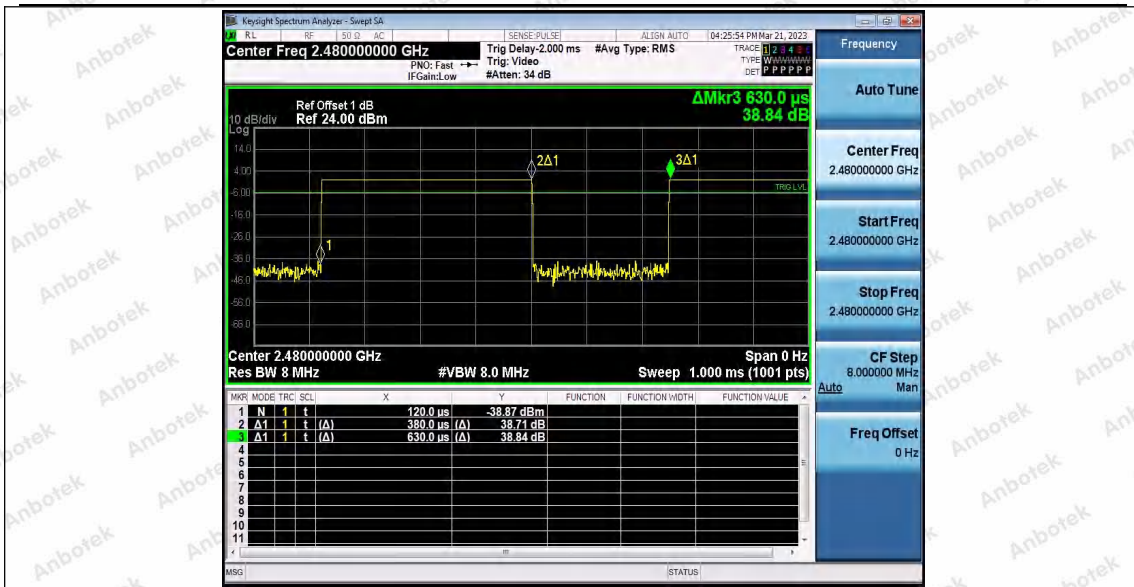


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BLE_2M_Ant1_2402



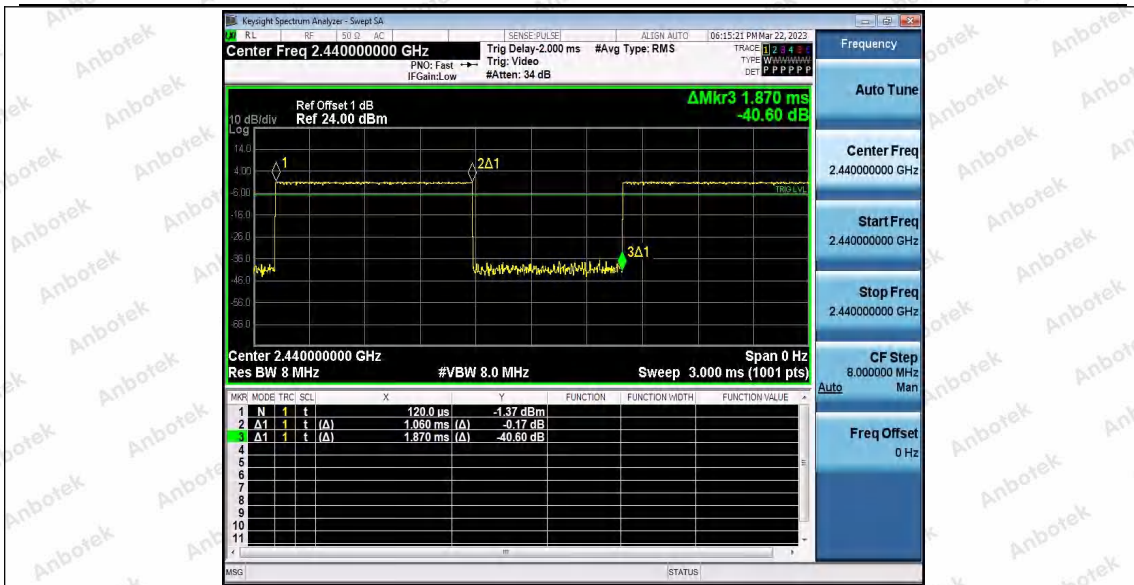
BLE_2M_Ant1_2440

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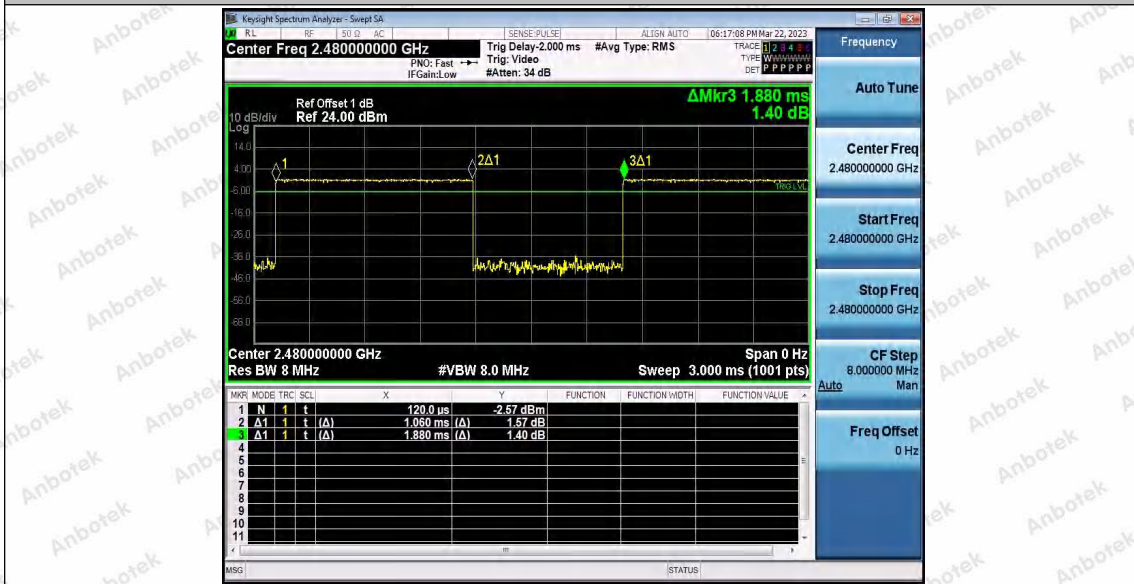
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BLE_2M_Ant1_2480



---End---

