

Appendix Test Data

Report No.:	18220WC30250001	Test Sample No.:	1-2-2
Start Test Date:	2023.12.01	Finish Test Date:	2023.12.13
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.6°C	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	0.640	2401.644	2402.284	0.5	PASS
		2440	0.648	2439.640	2440.288	0.5	PASS
		2480	0.680	2479.600	2480.280	0.5	PASS
BLE_2M	Ant1	2402	1.076	2401.444	2402.520	0.5	PASS
		2440	1.080	2439.436	2440.516	0.5	PASS
		2480	1.092	2479.424	2480.516	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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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	1.0789	2401.4532	2402.5321
		2440	1.0846	2439.4427	2440.5273
		2480	1.0769	2479.4385	2480.5154
BLE_2M	Ant1	2402	2.0948	2400.9511	2403.0459
		2440	2.0804	2438.9485	2441.0289
		2480	2.0969	2478.9411	2481.0380

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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	4.16	≤30	PASS
		2440	4.65	≤30	PASS
		2480	4.14	≤30	PASS
BLE_2M	Ant1	2402	4.39	≤30	PASS
		2440	4.67	≤30	PASS
		2480	4.08	≤30	PASS

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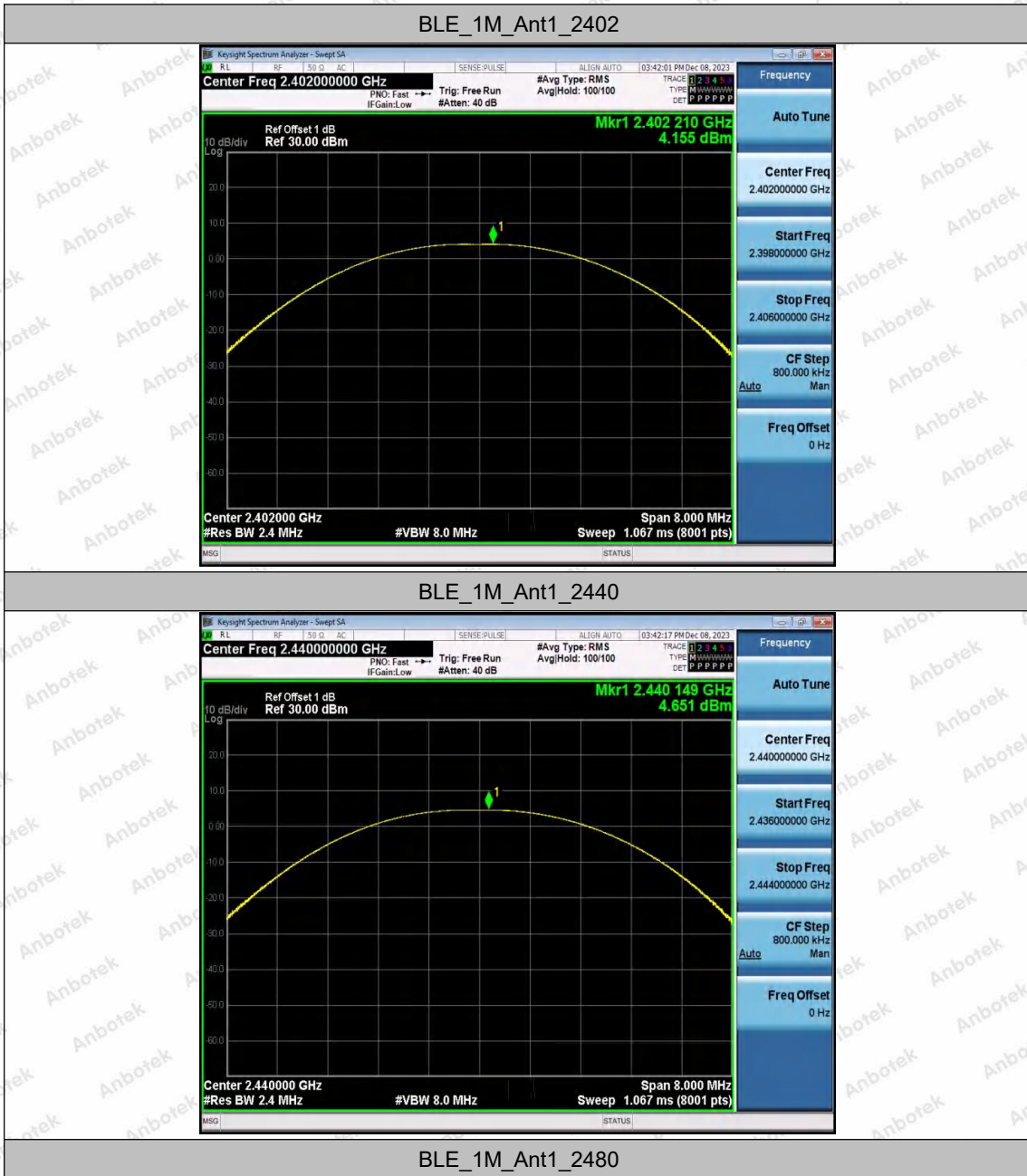
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Test Graphs Peak



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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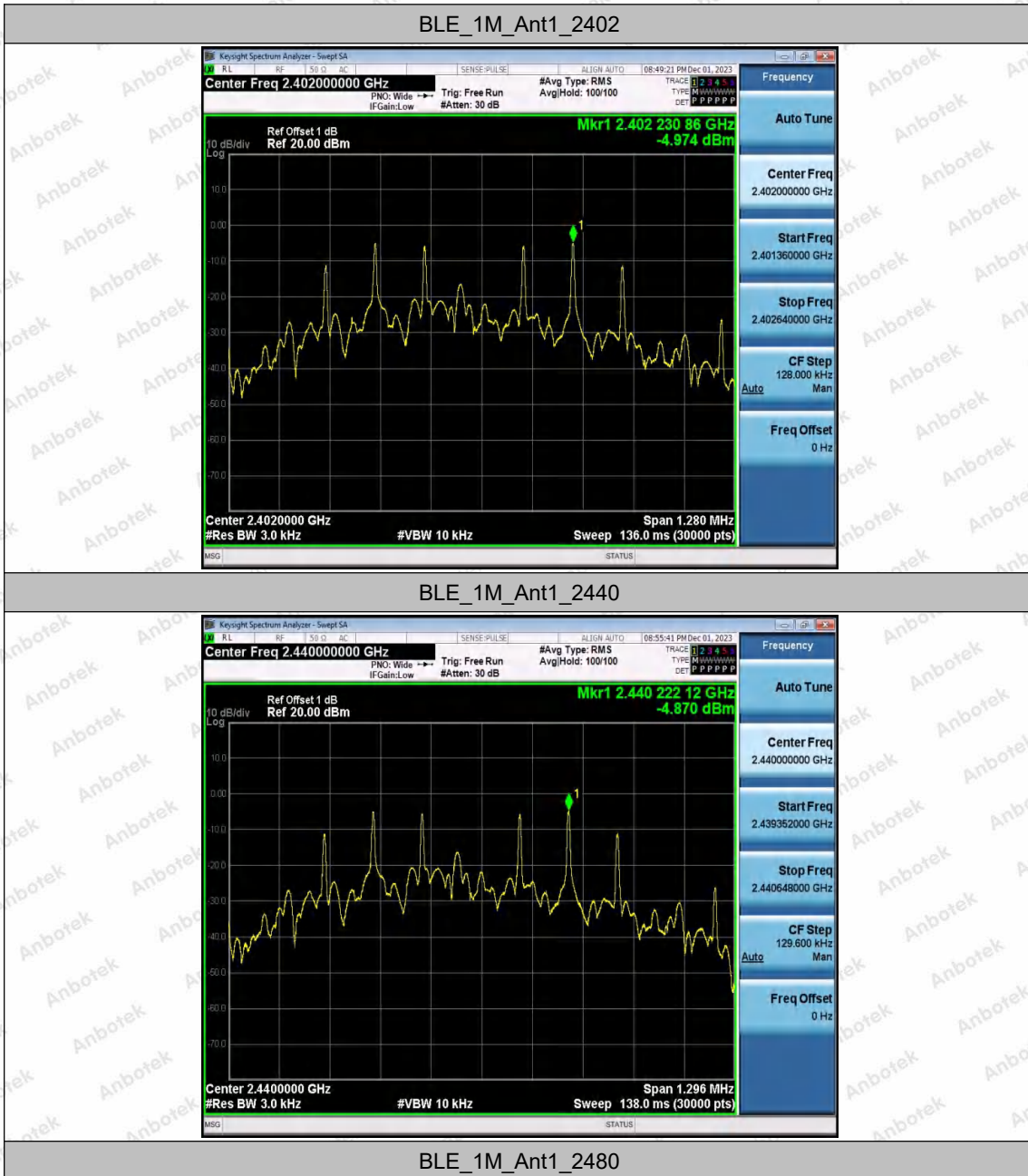
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-4.97	≤8.00	PASS
		2440	-4.87	≤8.00	PASS
		2480	-4.06	≤8.00	PASS
BLE_2M	Ant1	2402	-8.59	≤8.00	PASS
		2440	-8.44	≤8.00	PASS
		2480	-7.94	≤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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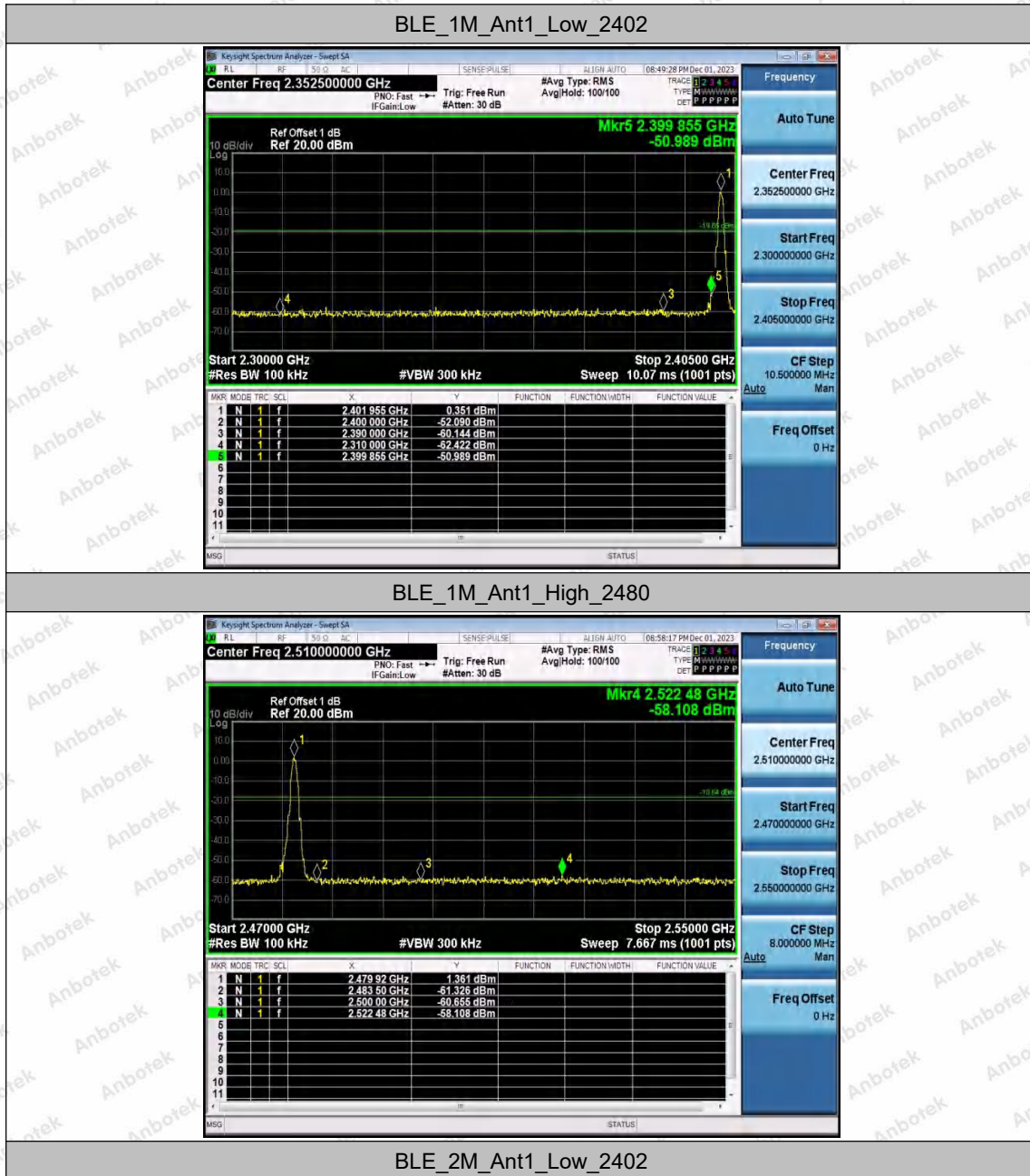
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.35	-50.99	≤-19.65	PASS
		High	2480	1.36	-58.11	≤-18.64	PASS
BLE_2M	Ant1	Low	2402	-2.29	-32.12	≤-22.29	PASS
		High	2480	0.78	-57.89	≤-19.22	PASS



Test Graphs

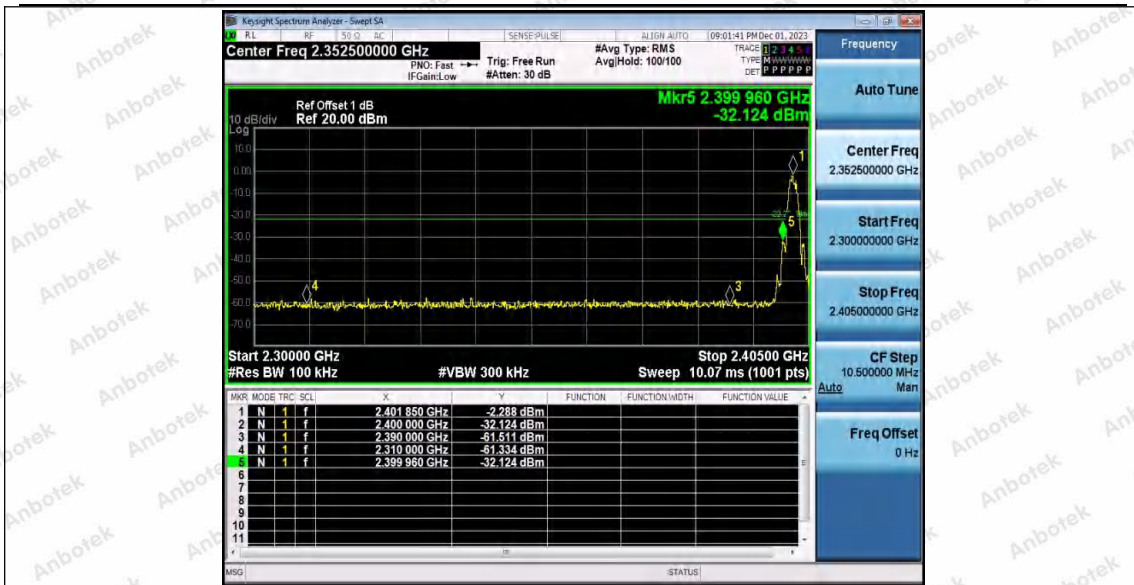


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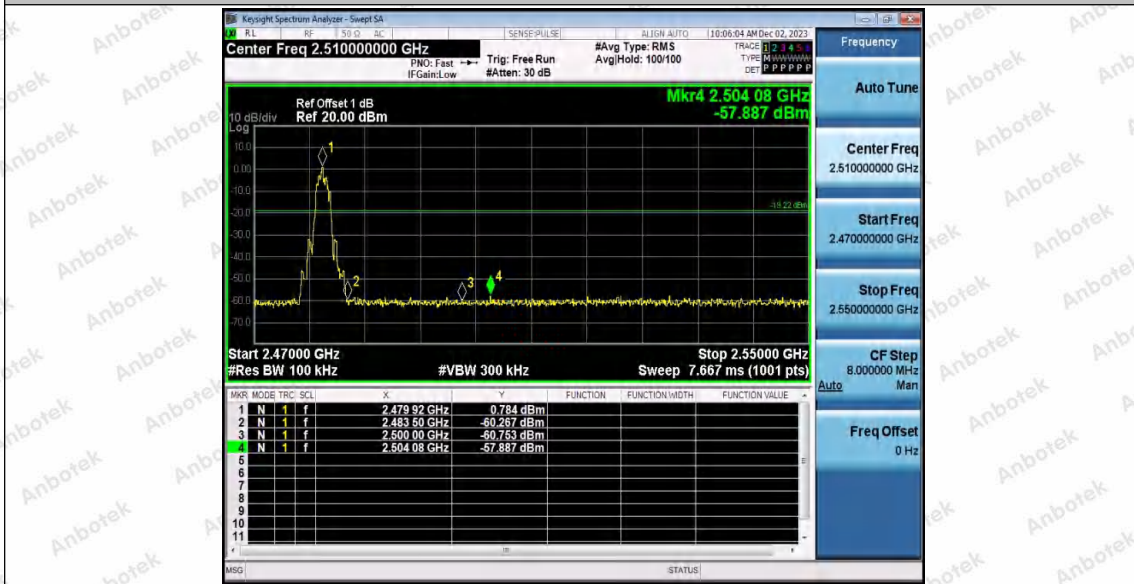
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BLE_2M_Ant1_High_2480



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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	1.01	1.01	---	PASS
			30~1000	1.01	-69.37	≤-18.99	PASS
			1000~26500	1.01	-54.07	≤-18.99	PASS
		2440	Reference	1.14	1.14	---	PASS
			30~1000	1.14	-69.3	≤-18.86	PASS
			1000~26500	1.14	-53.01	≤-18.86	PASS
		2480	Reference	1.94	1.94	---	PASS
			30~1000	1.94	-68.84	≤-18.06	PASS
			1000~26500	1.94	-53.6	≤-18.06	PASS
BLE_2M	Ant1	2402	Reference	0.11	0.11	---	PASS
			30~1000	0.11	-69.57	≤-19.89	PASS
			1000~26500	0.11	-54.06	≤-19.89	PASS
		2440	Reference	0.29	0.29	---	PASS
			30~1000	0.29	-68.25	≤-19.71	PASS
			1000~26500	0.29	-53.67	≤-19.71	PASS
		2480	Reference	0.79	0.79	---	PASS
			30~1000	0.79	-69.22	≤-19.21	PASS
			1000~26500	0.79	-55.07	≤-19.21	PASS



Test Graphs

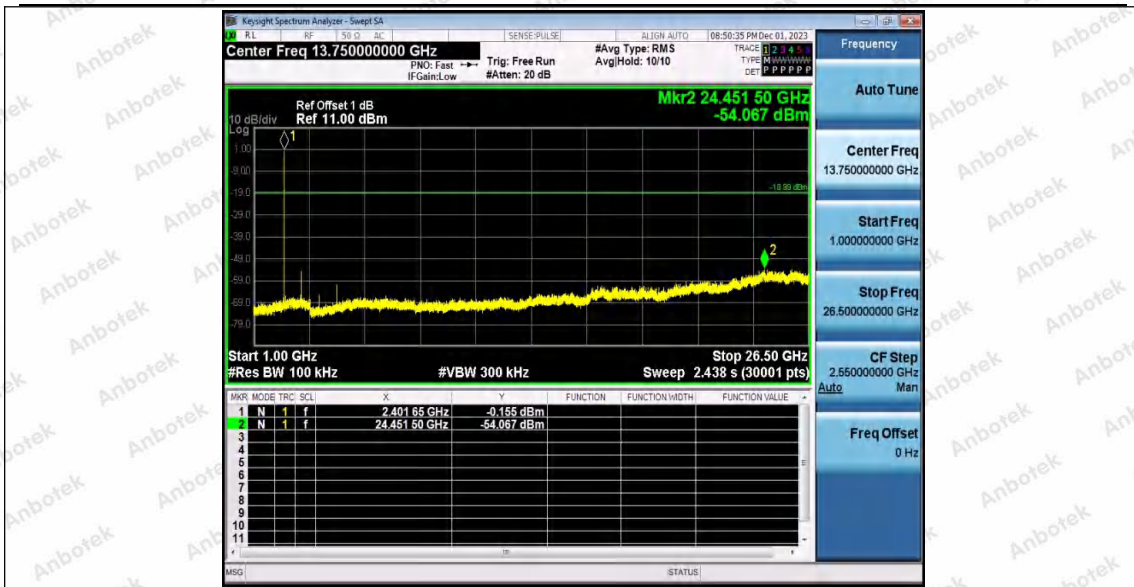


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BLE_1M_Ant1_2440_0~Reference



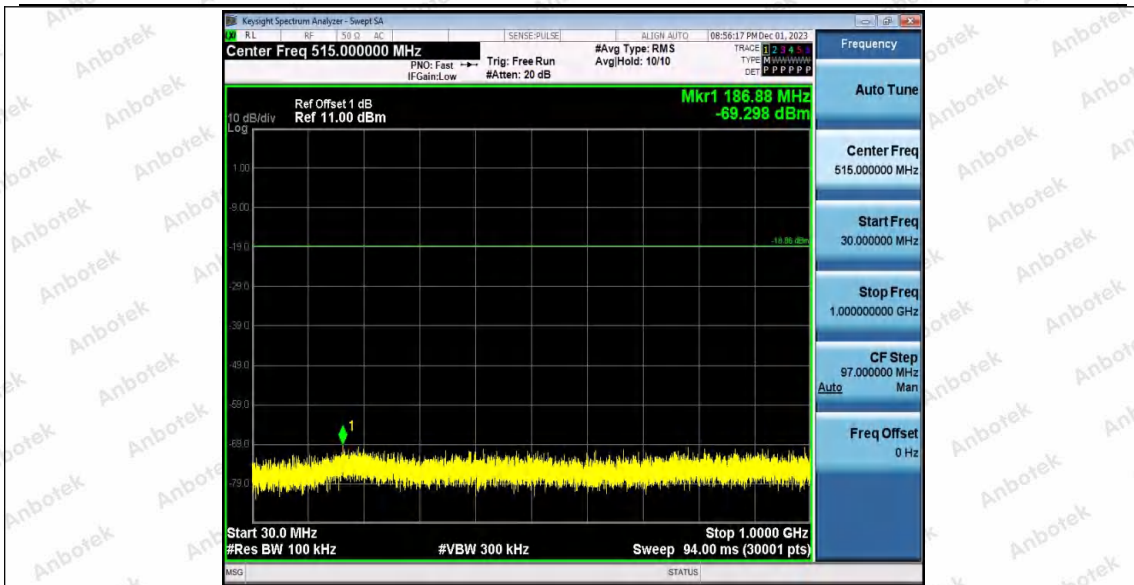
BLE_1M_Ant1_2440_30~1000

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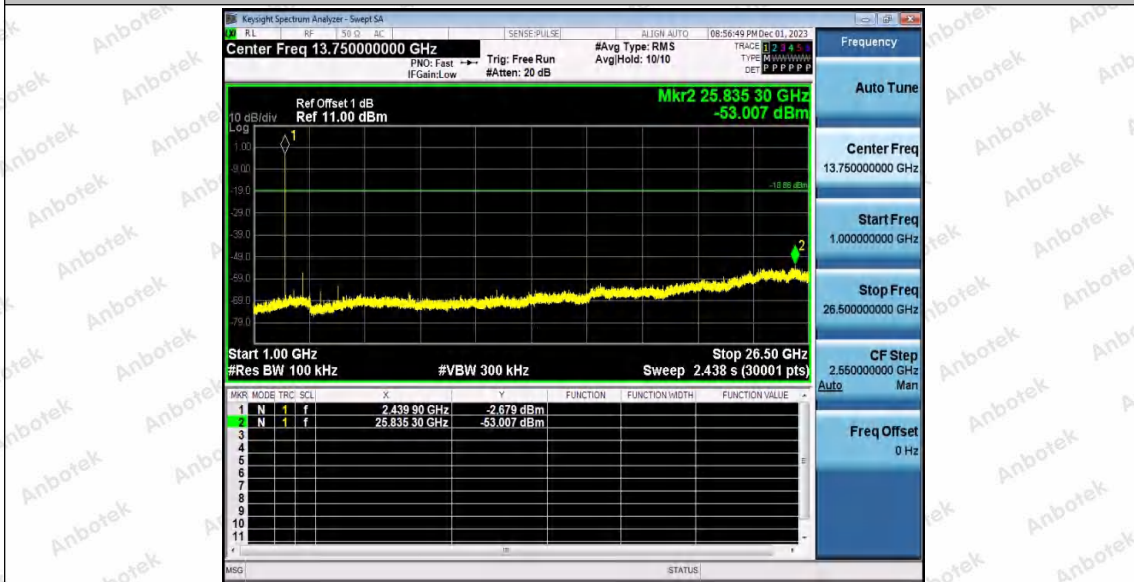
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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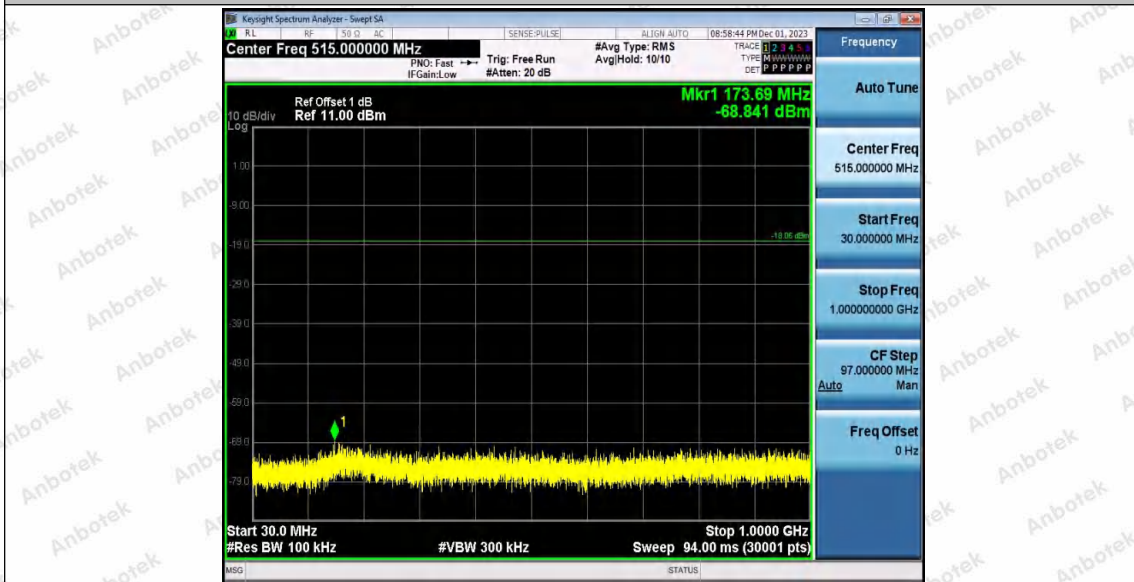
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

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BLE_2M_Ant1_2402_0~Reference



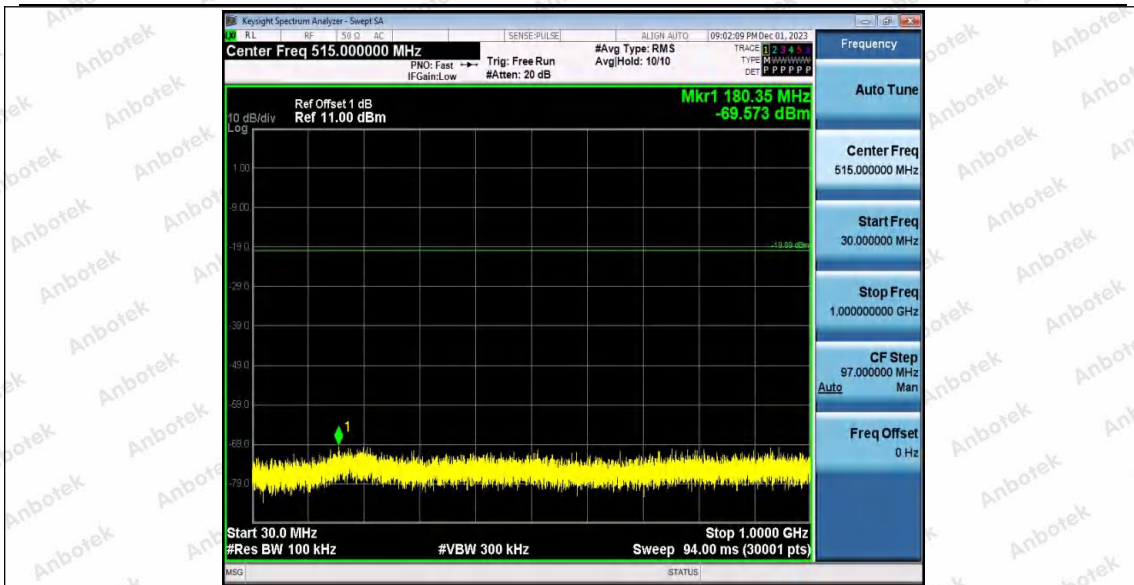
BLE_2M_Ant1_2402_30~1000

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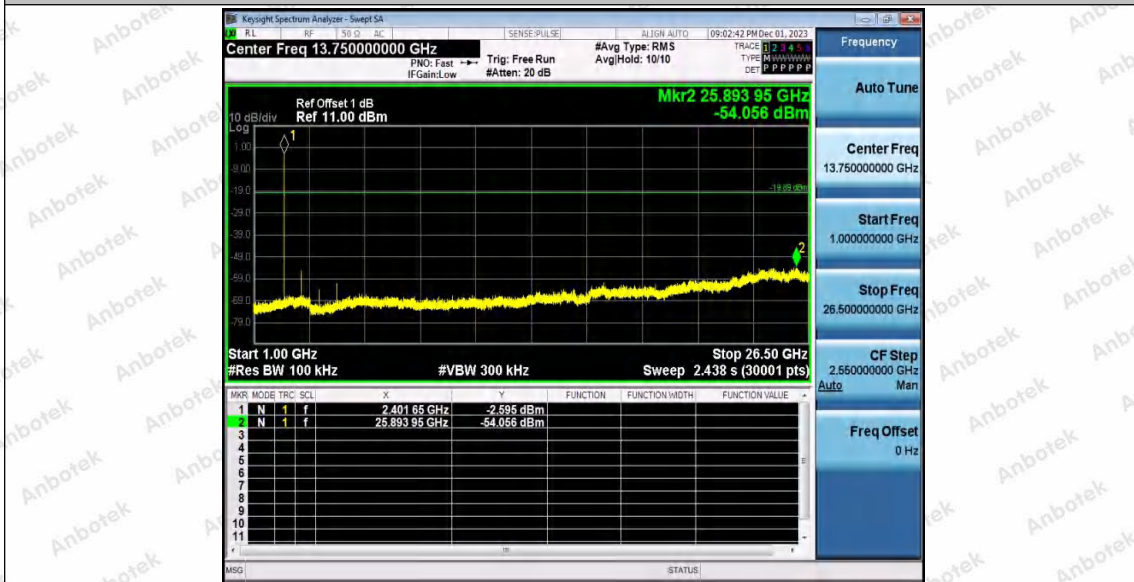
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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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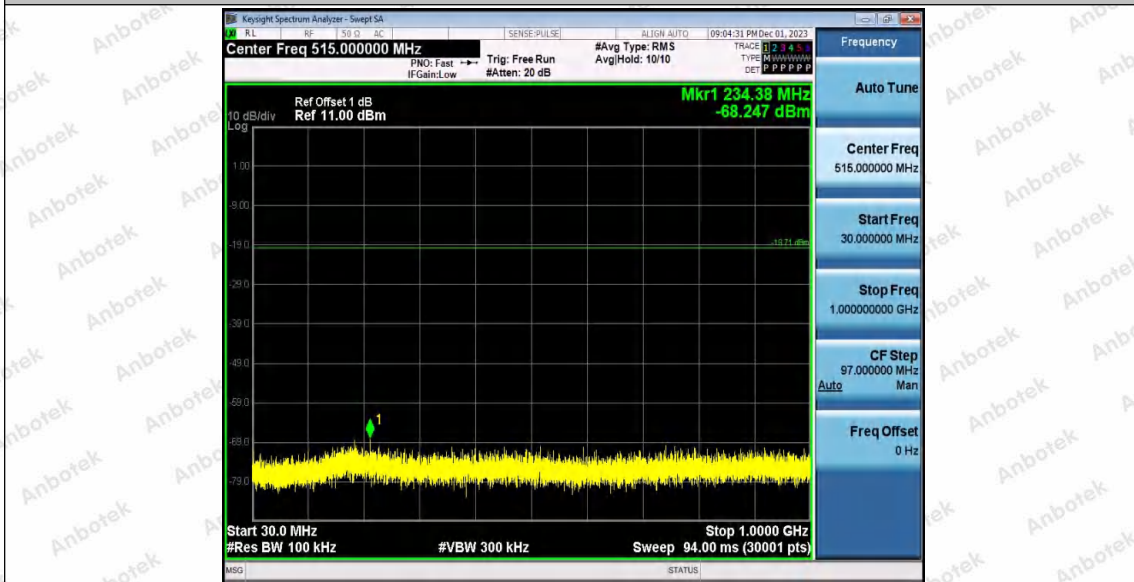
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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000

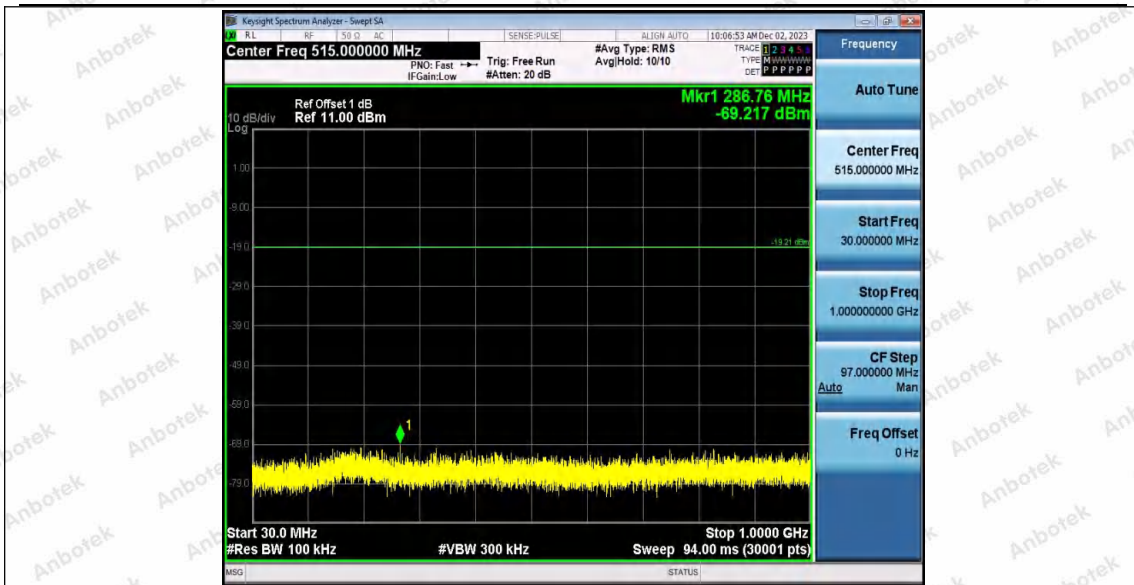
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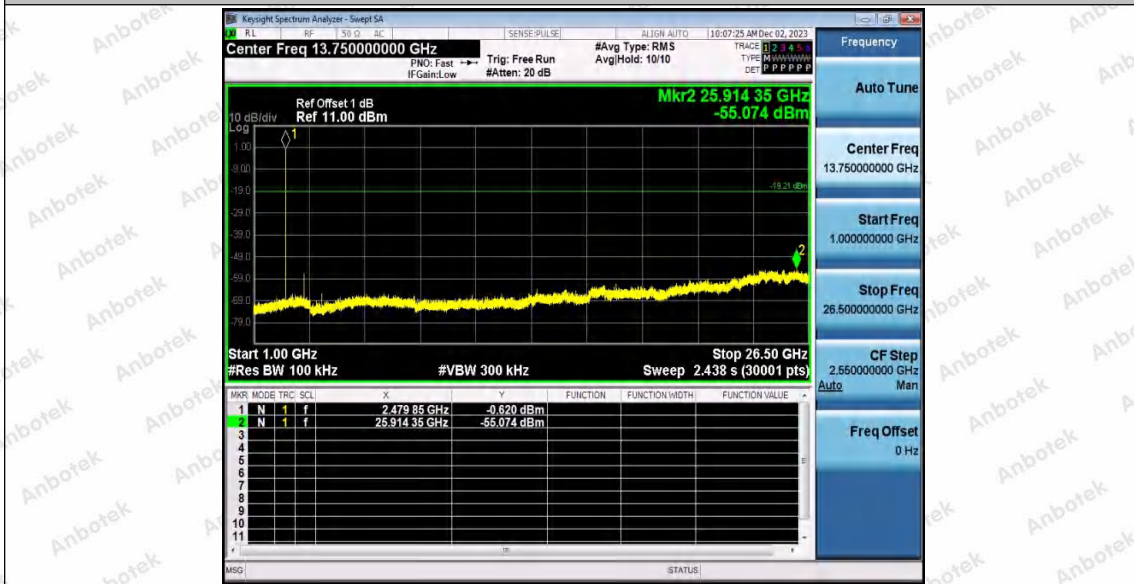


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BLE_2M_Ant1_2480_1000~26500



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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	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	0.19	0.63	30.16	5.21
		2440	0.19	0.62	30.65	5.14
		2480	0.20	0.63	31.75	4.98

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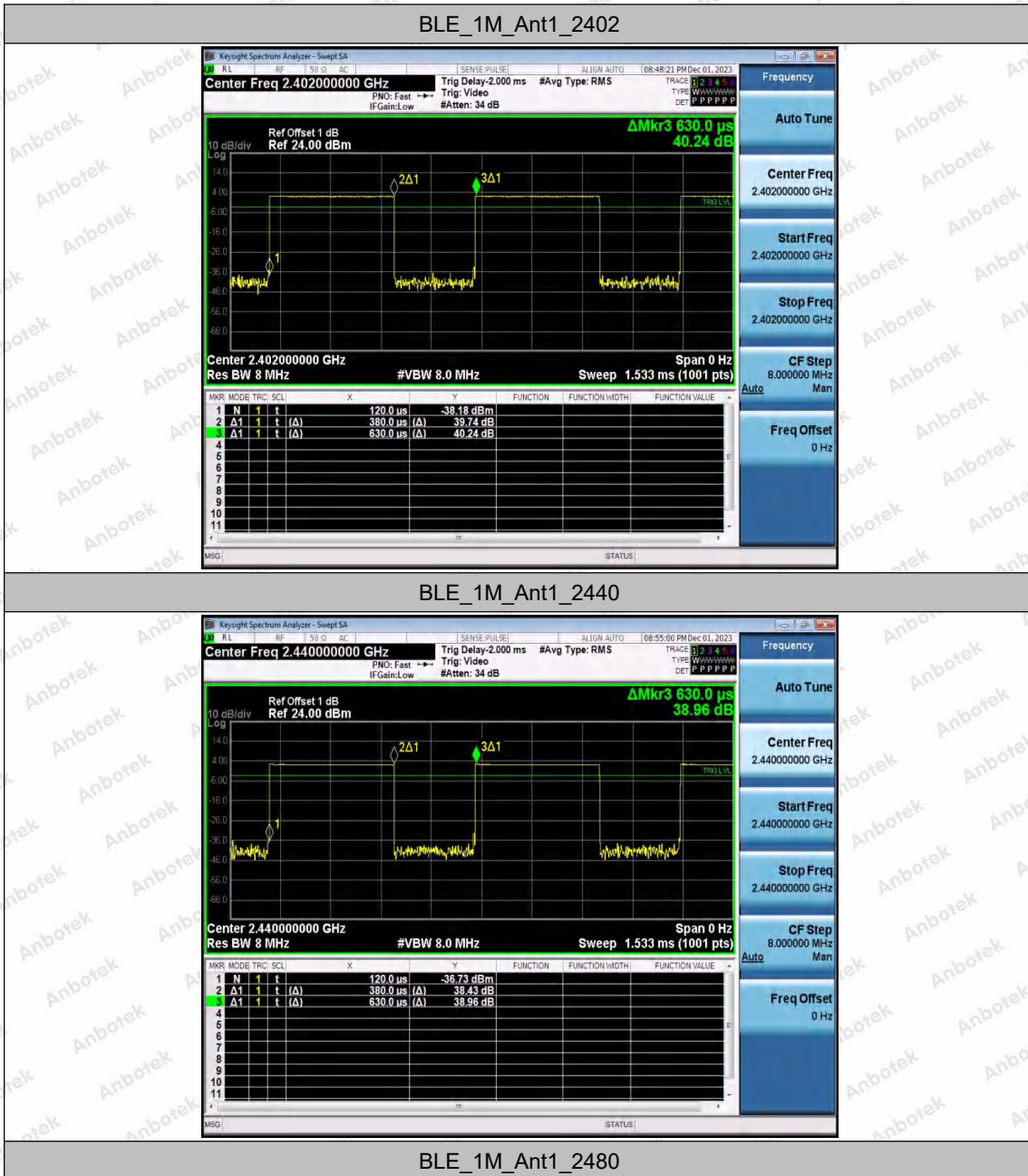
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Test Graphs



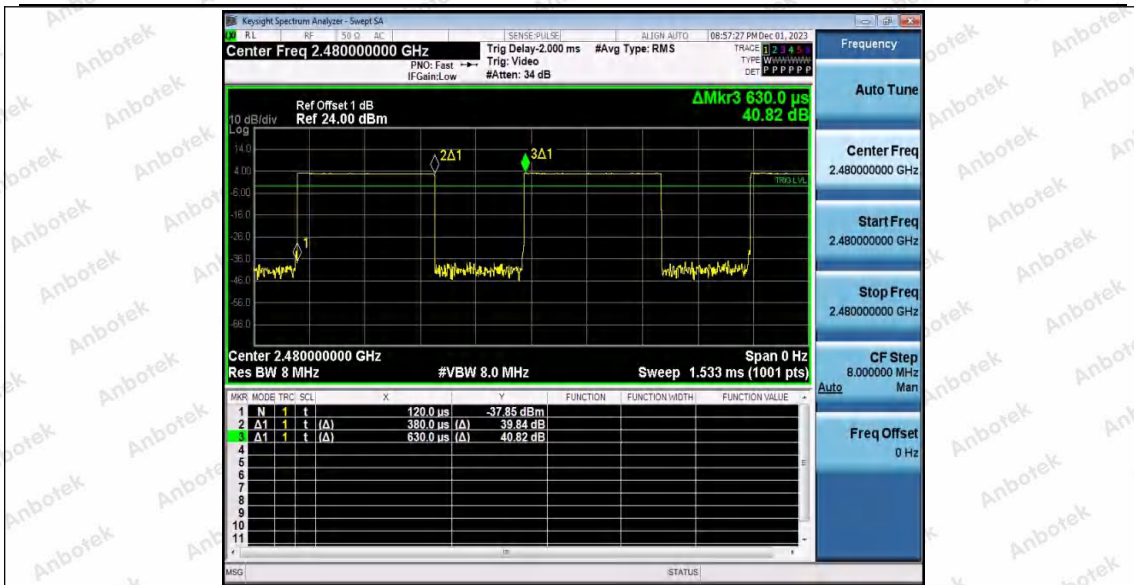
BLE_1M_Ant1_2480

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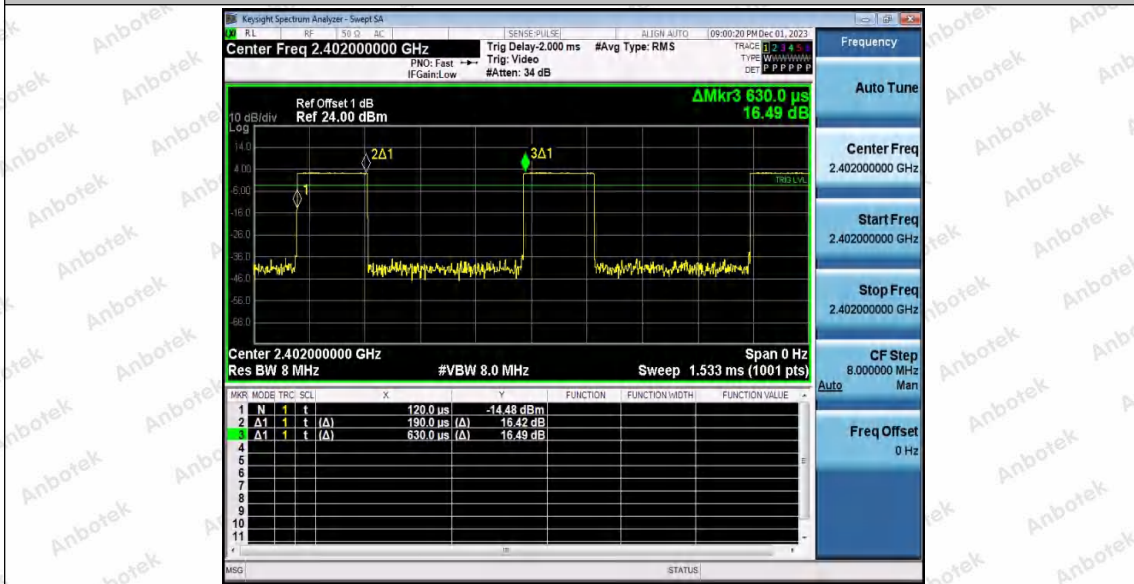
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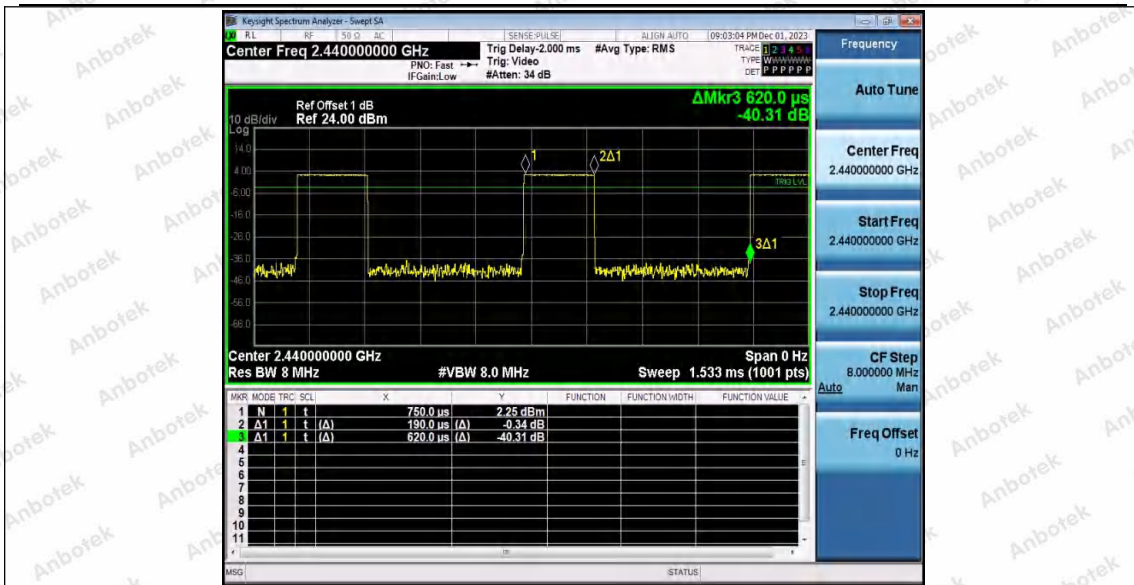


BLE_2M_Ant1_2402

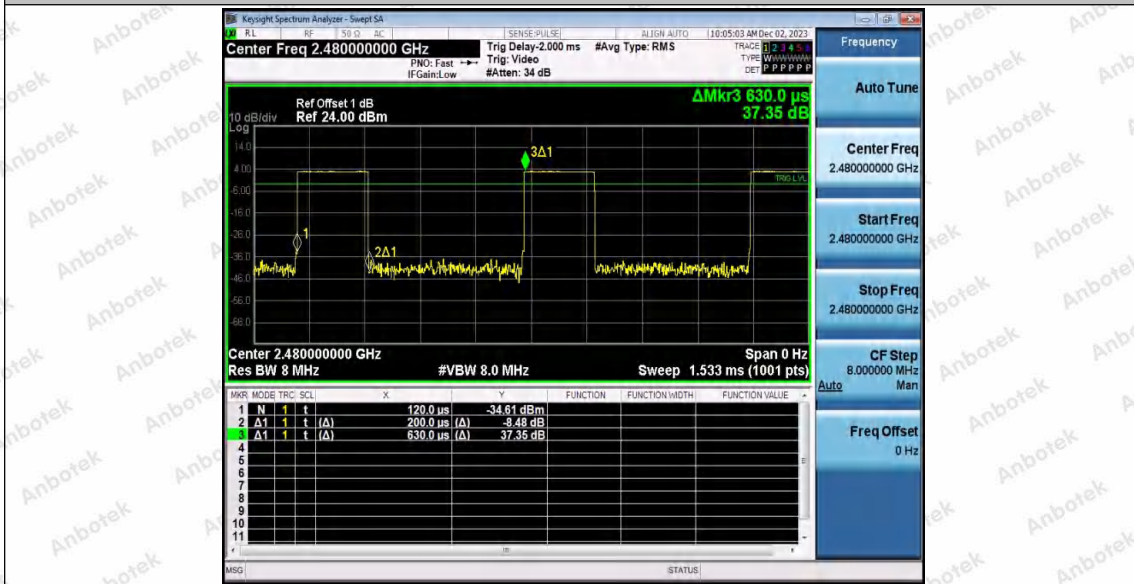


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



---End---

