

Appendix Test Data

Report No.:	18220WC30181202	Test Sample No.:	1-2-2
Start Test Date:	2023.08.25	Finish Test Date:	2023.08.29
Test Engineer:	Hayman Chen	Auditor:	Rock Luo
Temperature:	24.9°C	Relative Humidity:	48%
Pressure:	101 kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.696	2402.340	0.5	PASS
		2440	0.636	2439.704	2440.340	0.5	PASS
		2480	0.660	2479.680	2480.340	0.5	PASS
BLE_2M	Ant1	2402	1.104	2401.464	2402.568	0.5	PASS
		2440	1.108	2439.476	2440.584	0.5	PASS
		2480	1.072	2479.492	2480.564	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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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	1.0215	2401.5103	2402.5318
		2440	1.0372	2439.4997	2440.5369
		2480	1.0356	2479.4960	2480.5316
BLE_2M	Ant1	2402	2.0287	2401.0153	2403.0440
		2440	2.0545	2439.0099	2441.0644
		2480	2.0579	2479.0091	2481.0670



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	8.82	≤30	PASS
		2440	8.62	≤30	PASS
		2480	7.79	≤30	PASS
BLE_2M	Ant1	2402	8.62	≤30	PASS
		2440	8.35	≤30	PASS
		2480	7.56	≤30	PASS

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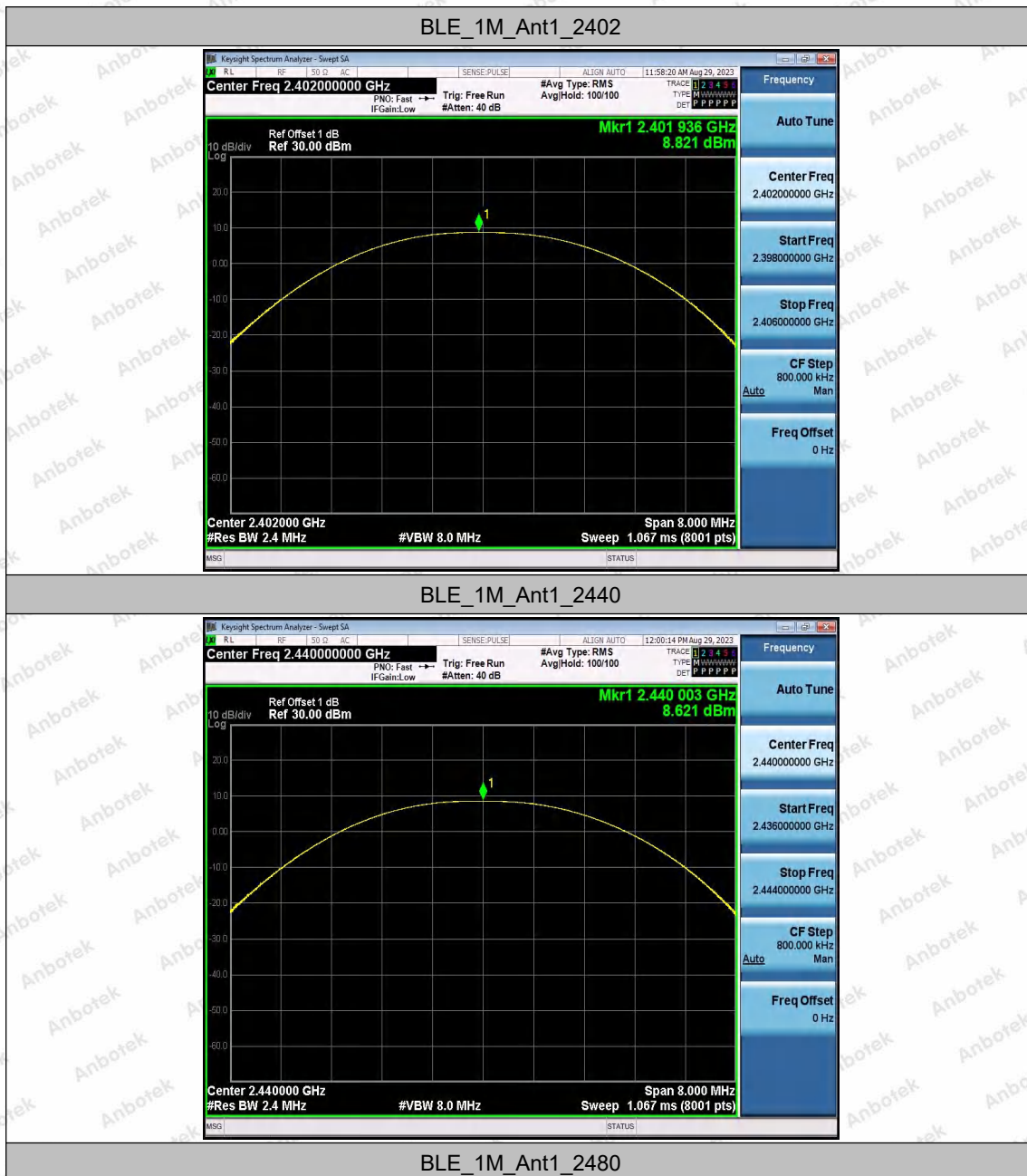
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Test Graphs Peak



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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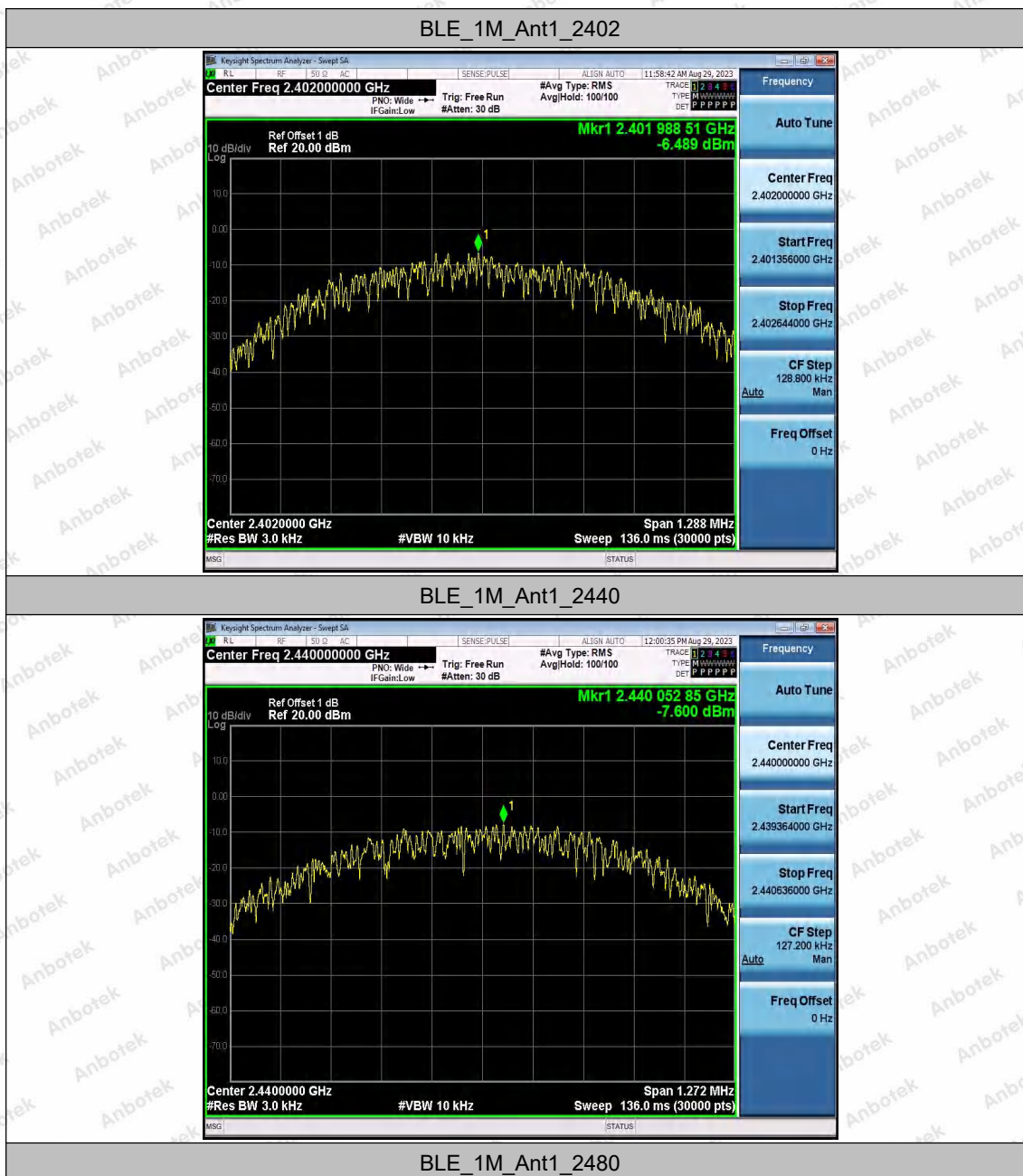
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-6.49	≤8.00	PASS
		2440	-7.60	≤8.00	PASS
		2480	-6.55	≤8.00	PASS
BLE_2M	Ant1	2402	-8.58	≤8.00	PASS
		2440	-9.26	≤8.00	PASS
		2480	-9.71	≤8.00	PASS



Test Graphs



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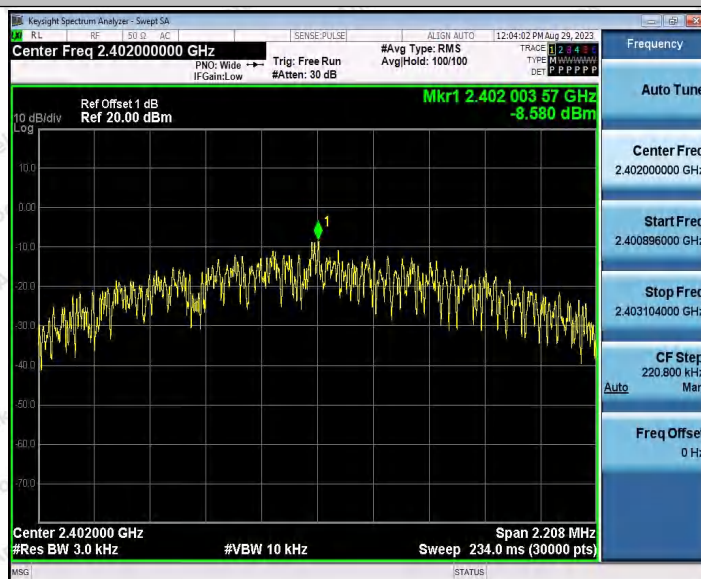


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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Appendix E: Band edge measurements

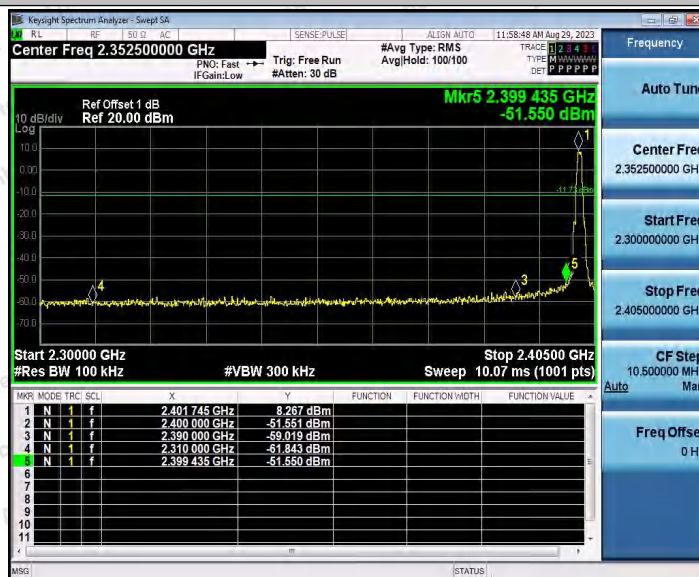
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	8.27	-51.55	≤-11.73	PASS
		High	2480	7.86	-53.16	≤-12.14	PASS
BLE_2M	Ant1	Low	2402	8.33	-25.00	≤-11.67	PASS
		High	2480	6.52	-52.47	≤-13.48	PASS

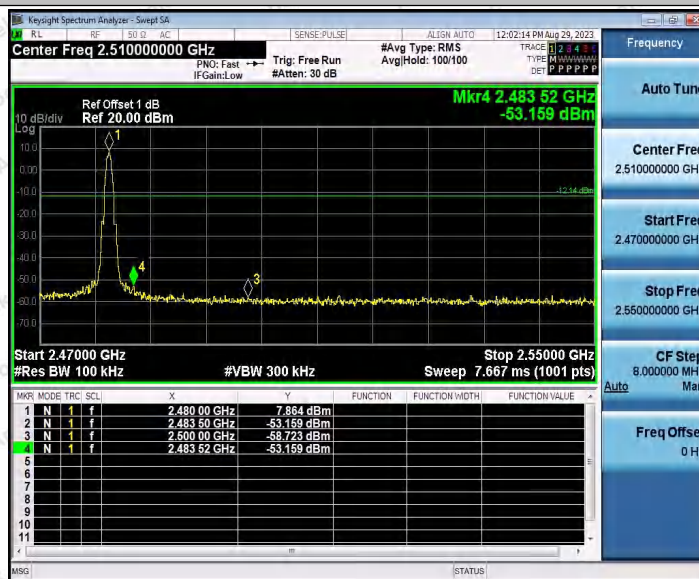


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

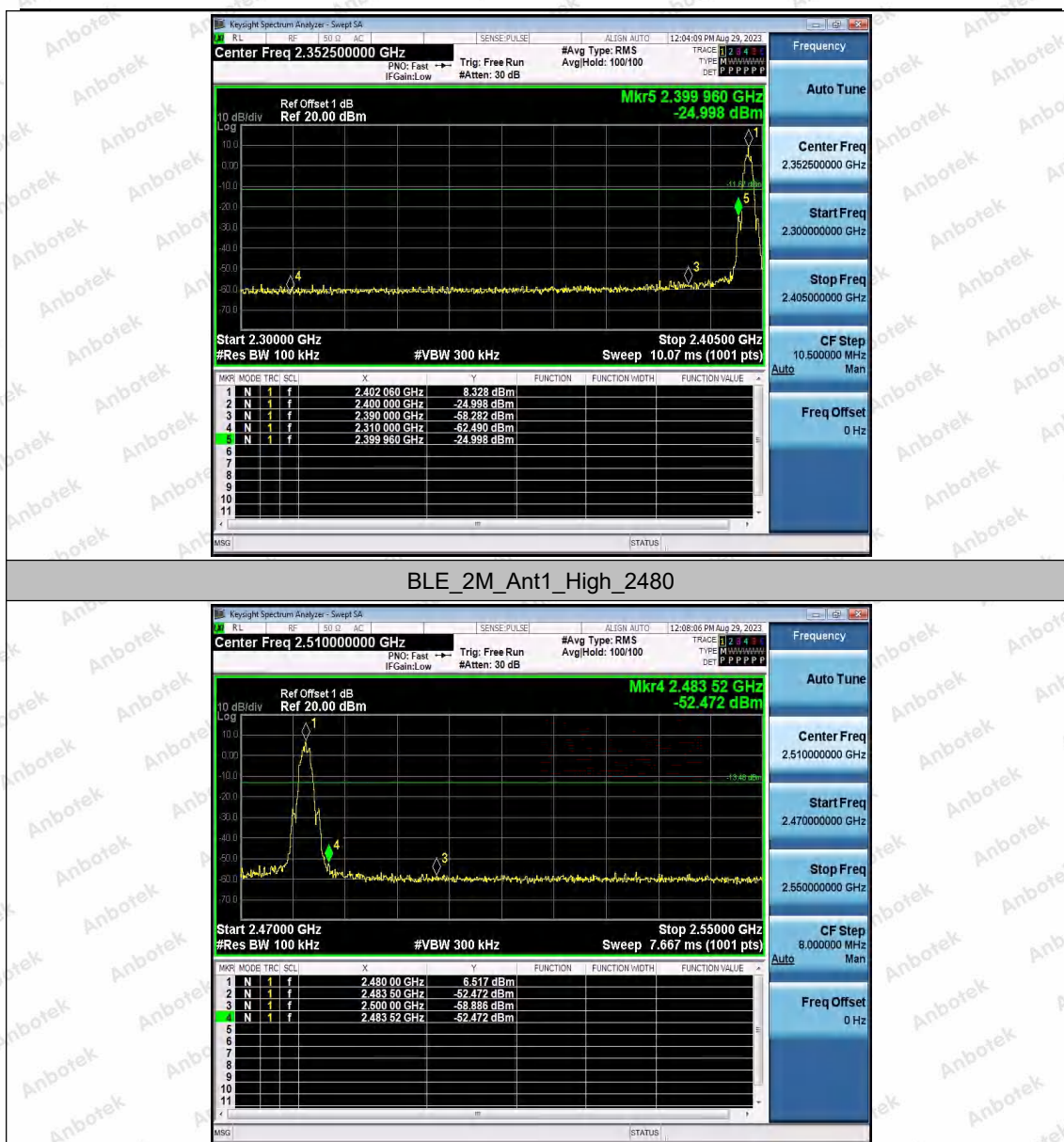
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	7.60	7.60	---	PASS
			30~1000	7.60	-64.15	≤-12.4	PASS
			1000~26500	7.60	-51.11	≤-12.4	PASS
		2440	Reference	7.00	7.00	---	PASS
			30~1000	7.00	-65.04	≤-13	PASS
			1000~26500	7.00	-53.54	≤-13	PASS
		2480	Reference	7.06	7.06	---	PASS
			30~1000	7.06	-62.77	≤-12.94	PASS
			1000~26500	7.06	-53.39	≤-12.94	PASS
BLE_2M	Ant1	2402	Reference	6.12	6.12	---	PASS
			30~1000	6.12	-64.38	≤-13.88	PASS
			1000~26500	6.12	-48.65	≤-13.88	PASS
		2440	Reference	7.92	7.92	---	PASS
			30~1000	7.92	-67.28	≤-12.08	PASS
			1000~26500	7.92	-53.01	≤-12.08	PASS
		2480	Reference	2.90	2.90	---	PASS
			30~1000	2.90	-63.05	≤-17.1	PASS
			1000~26500	2.90	-53.47	≤-17.1	PASS

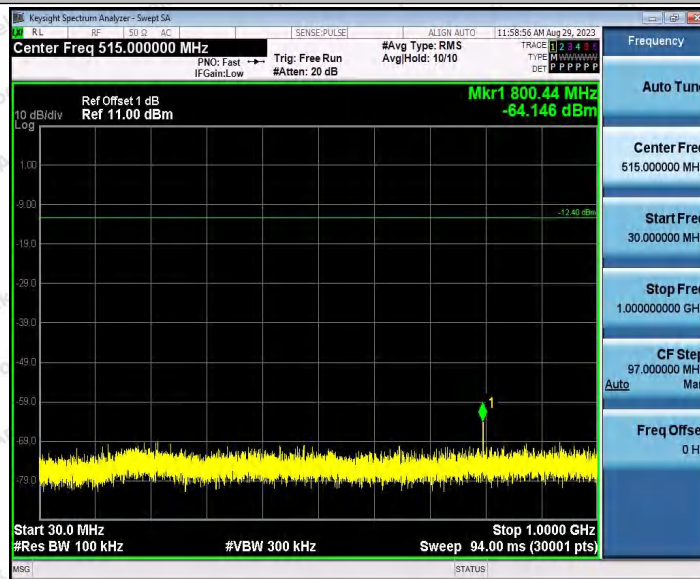


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

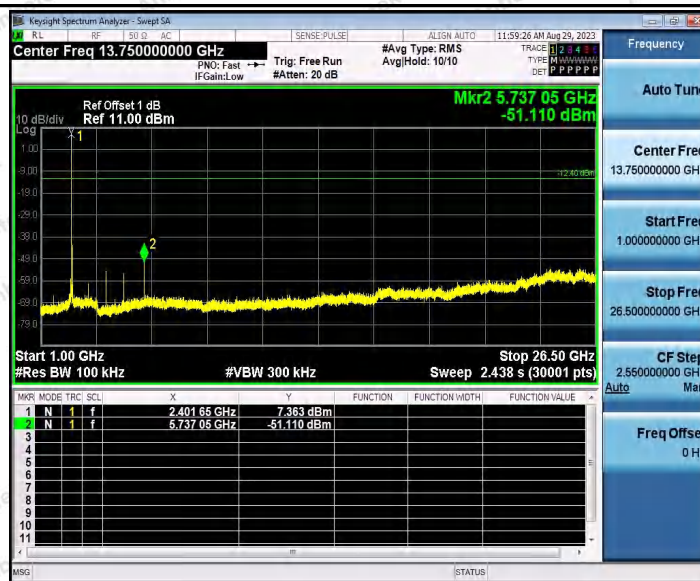
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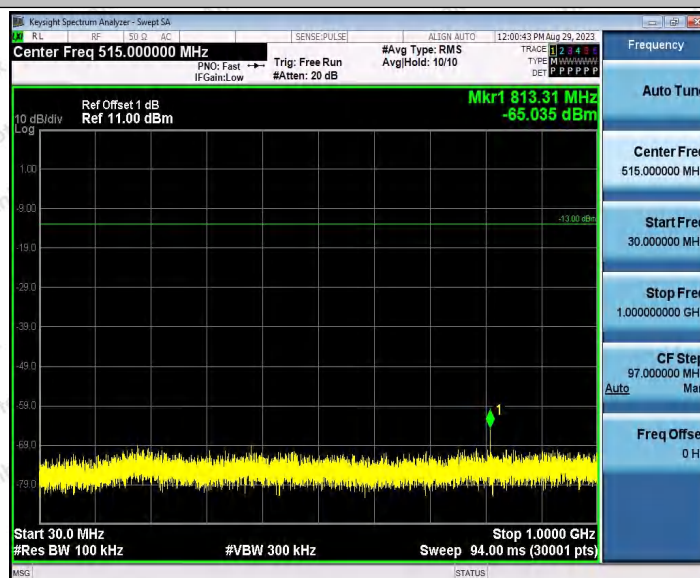




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



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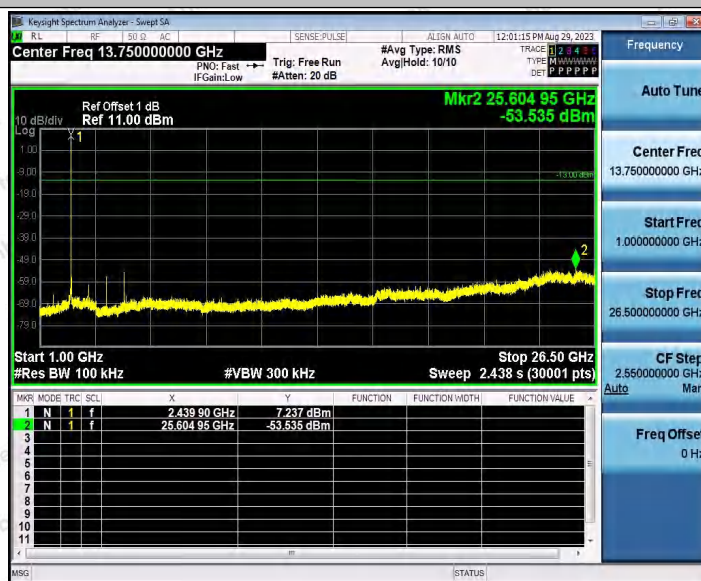
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

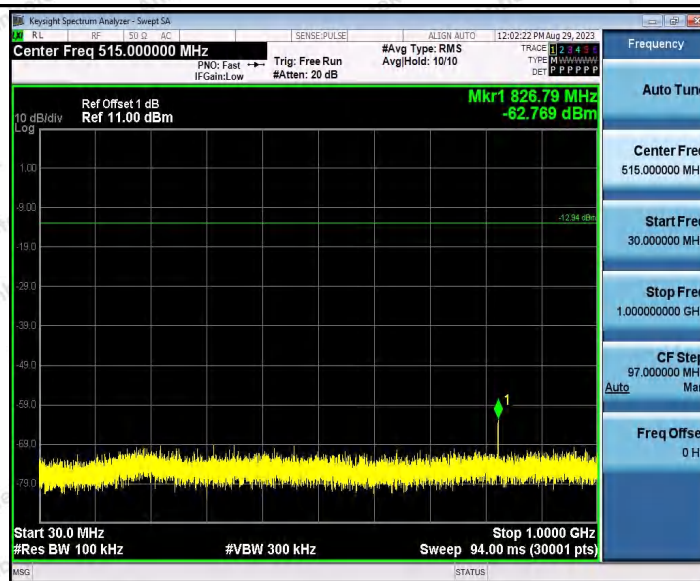
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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



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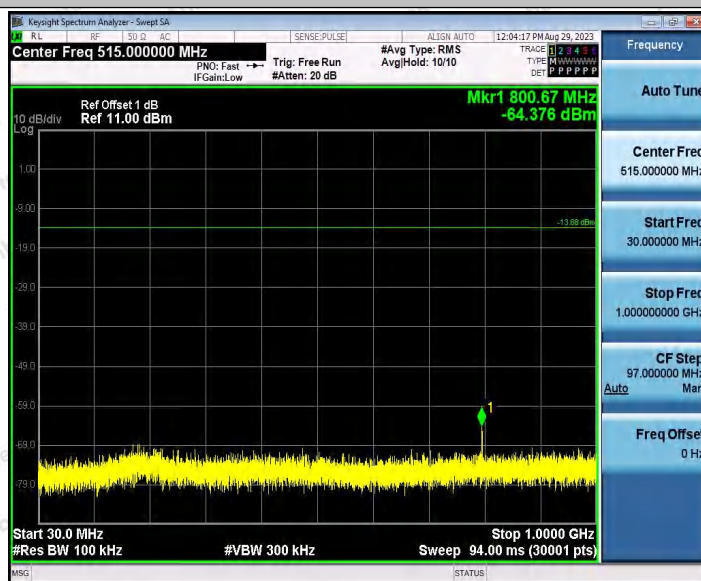
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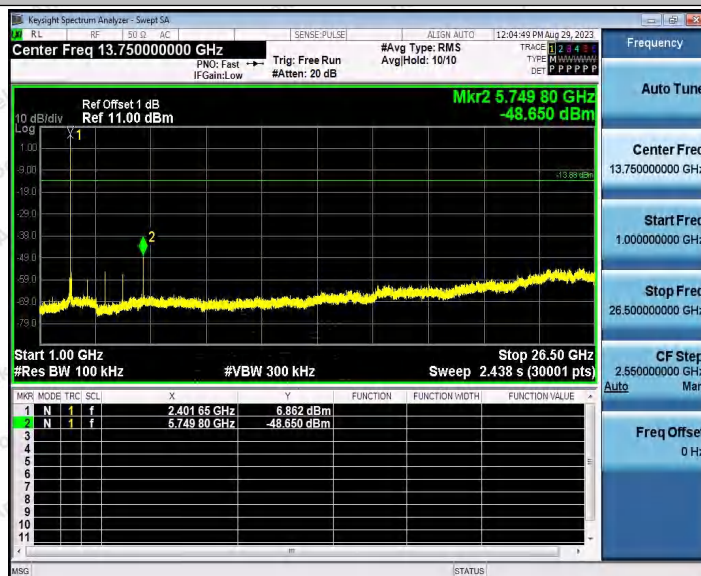
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BLE_2M_Ant1_2402_30~1000



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



BLE_2M_Ant1_2480_1000~26500

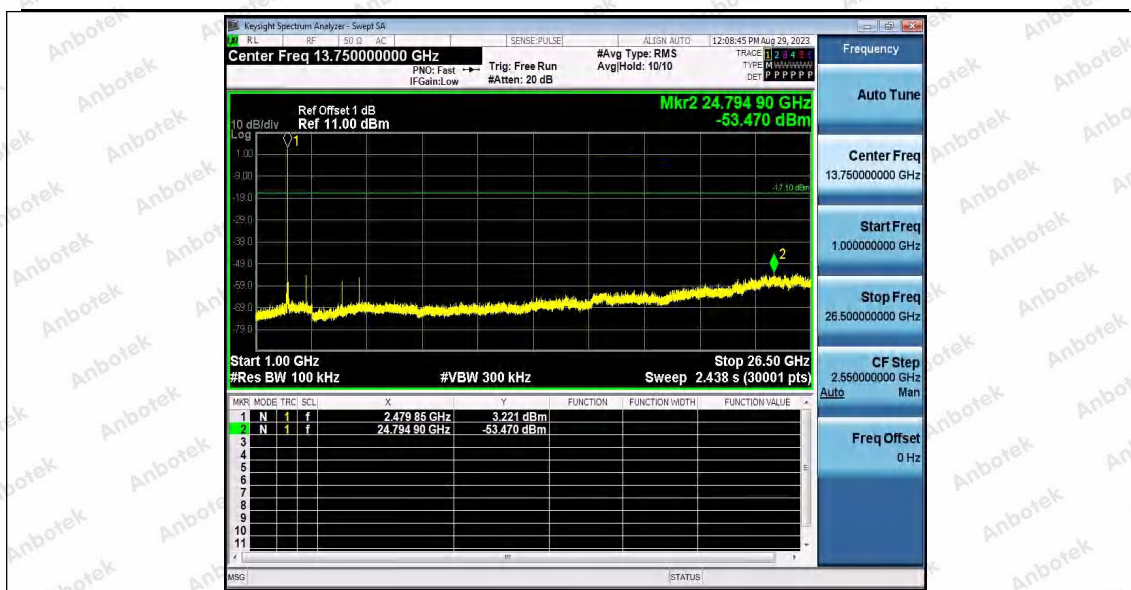
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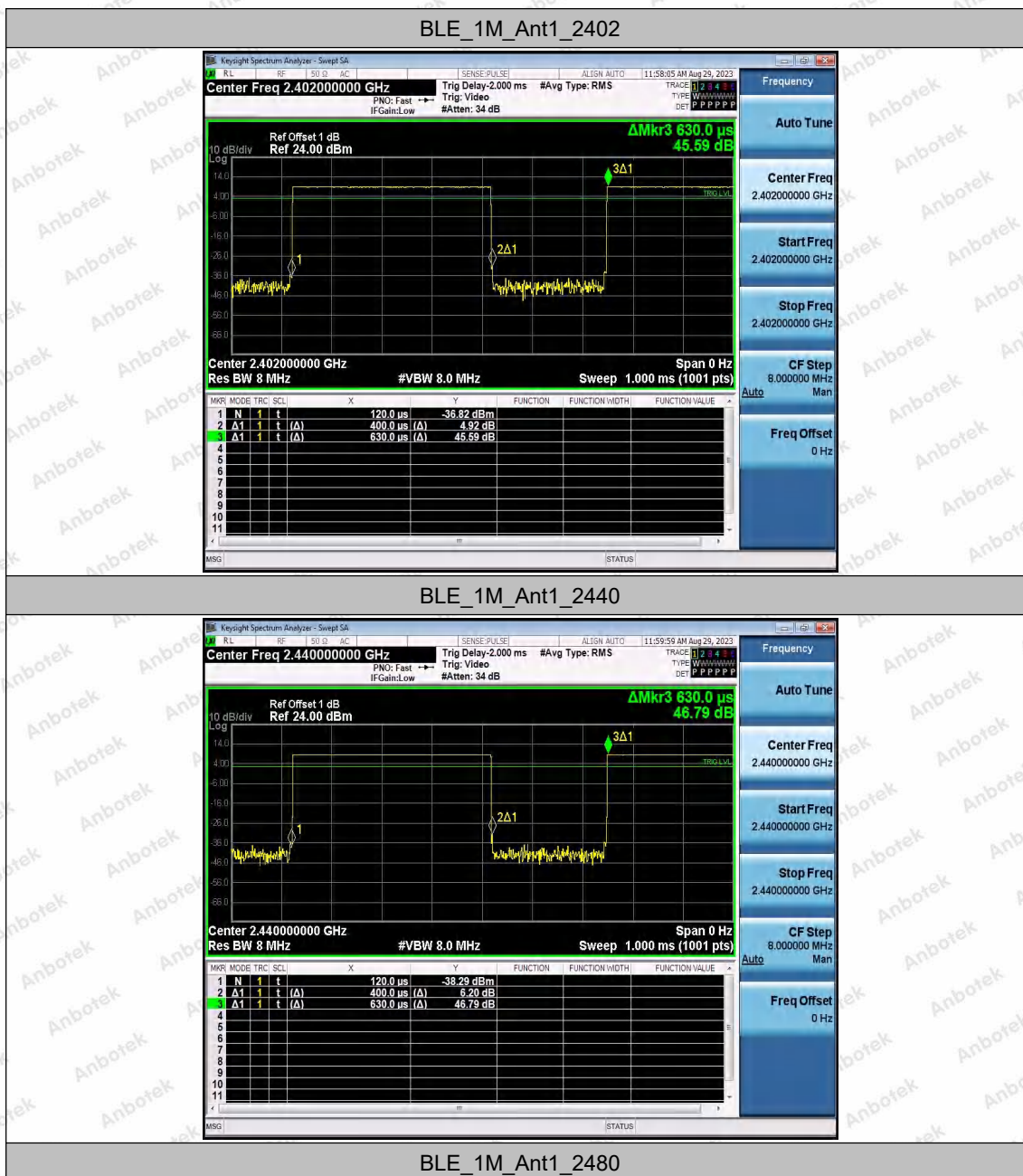
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.40	0.63	63.49	1.97
		2440	0.40	0.63	63.49	1.97
		2480	0.40	0.63	63.49	1.97
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
		2440	0.21	0.63	33.33	4.77
		2480	0.21	0.63	33.33	4.77



Test Graphs



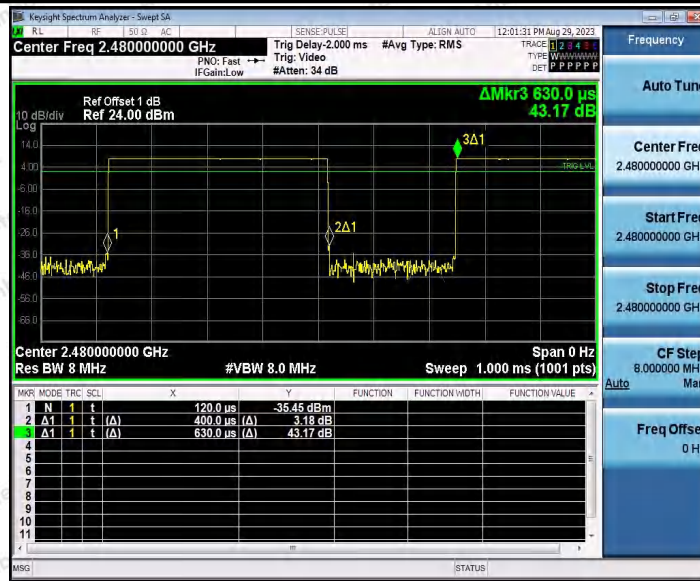
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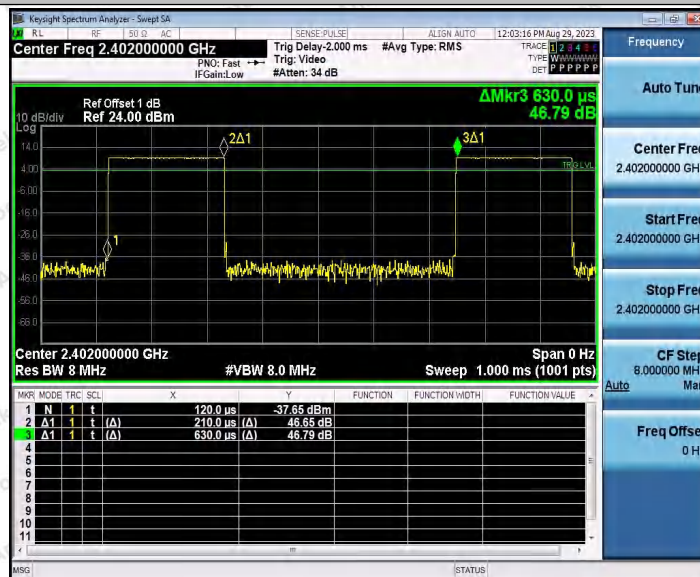


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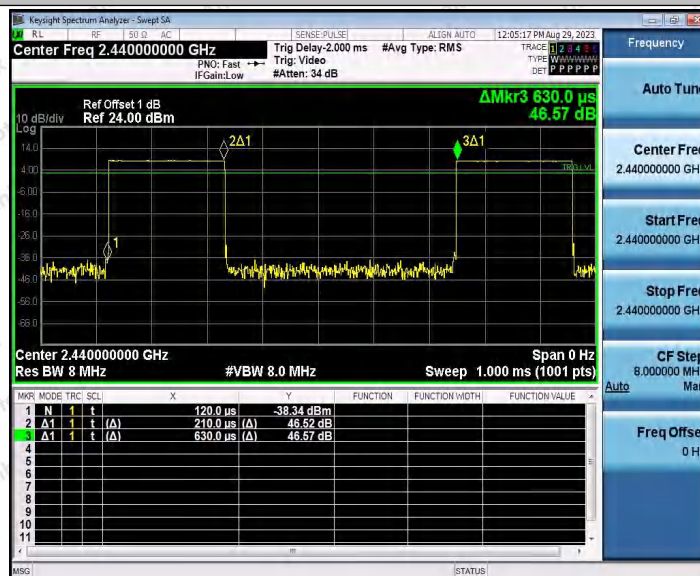




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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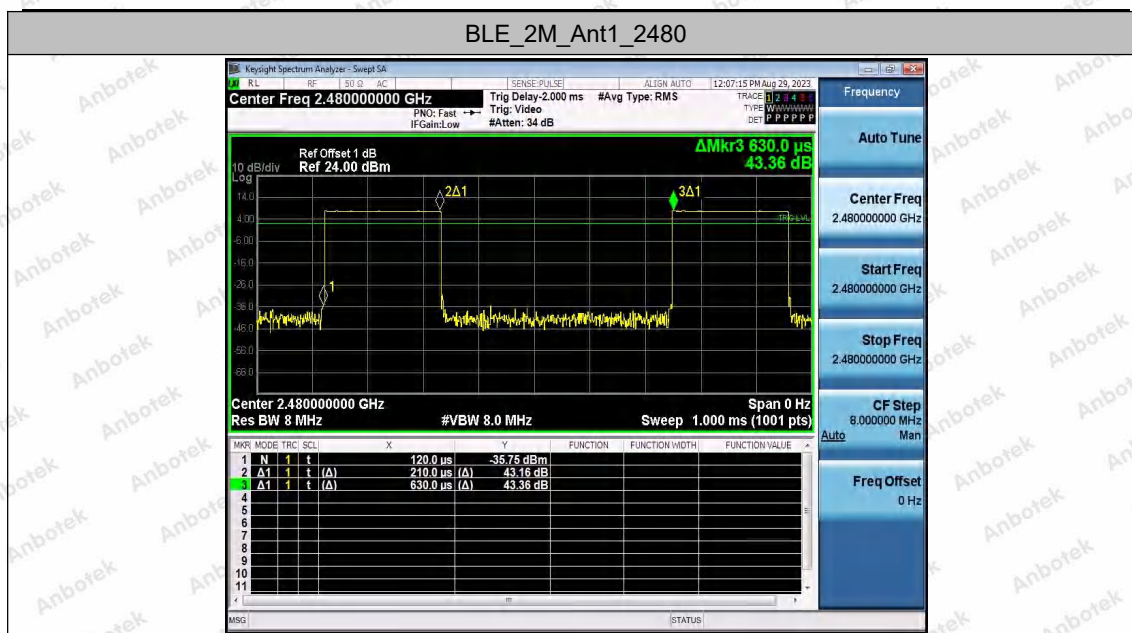


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