

Appendix Test Data

Report No.:	18220WC40047502	Test Sample No.:	1-2-2
Start Test Date:	2024.3.27	Finish Test Date:	2024.3.27
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3℃	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	0.660	2401.652	2402.312	0.5	PASS
		2440	0.620	2439.660	2440.280	0.5	PASS
		2480	0.656	2479.664	2480.320	0.5	PASS
BLE_2M	Ant1	2402	1.112	2401.436	2402.548	0.5	PASS
		2440	1.080	2439.444	2440.524	0.5	PASS
		2480	1.112	2479.424	2480.536	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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BLE_2M_Ant1_2480



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	1.0367	2401.4785	2402.5152	---	---
		2440	1.0319	2439.4780	2440.5099	---	---
		2480	1.0366	2479.4721	2480.5087	---	---
BLE_2M	Ant1	2402	2.0640	2400.9817	2403.0457	---	---
		2440	2.0579	2438.9861	2441.0440	---	---
		2480	2.0423	2478.9905	2481.0328	---	---

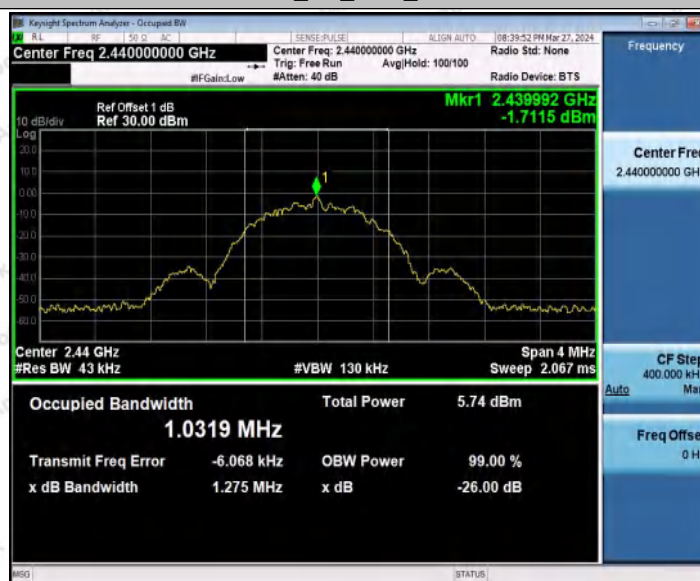


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





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	-0.38	≤30	PASS
		2440	-0.92	≤30	PASS
		2480	-1.82	≤30	PASS
BLE_2M	Ant1	2402	-0.19	≤30	PASS
		2440	-0.71	≤30	PASS
		2480	-1.7	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

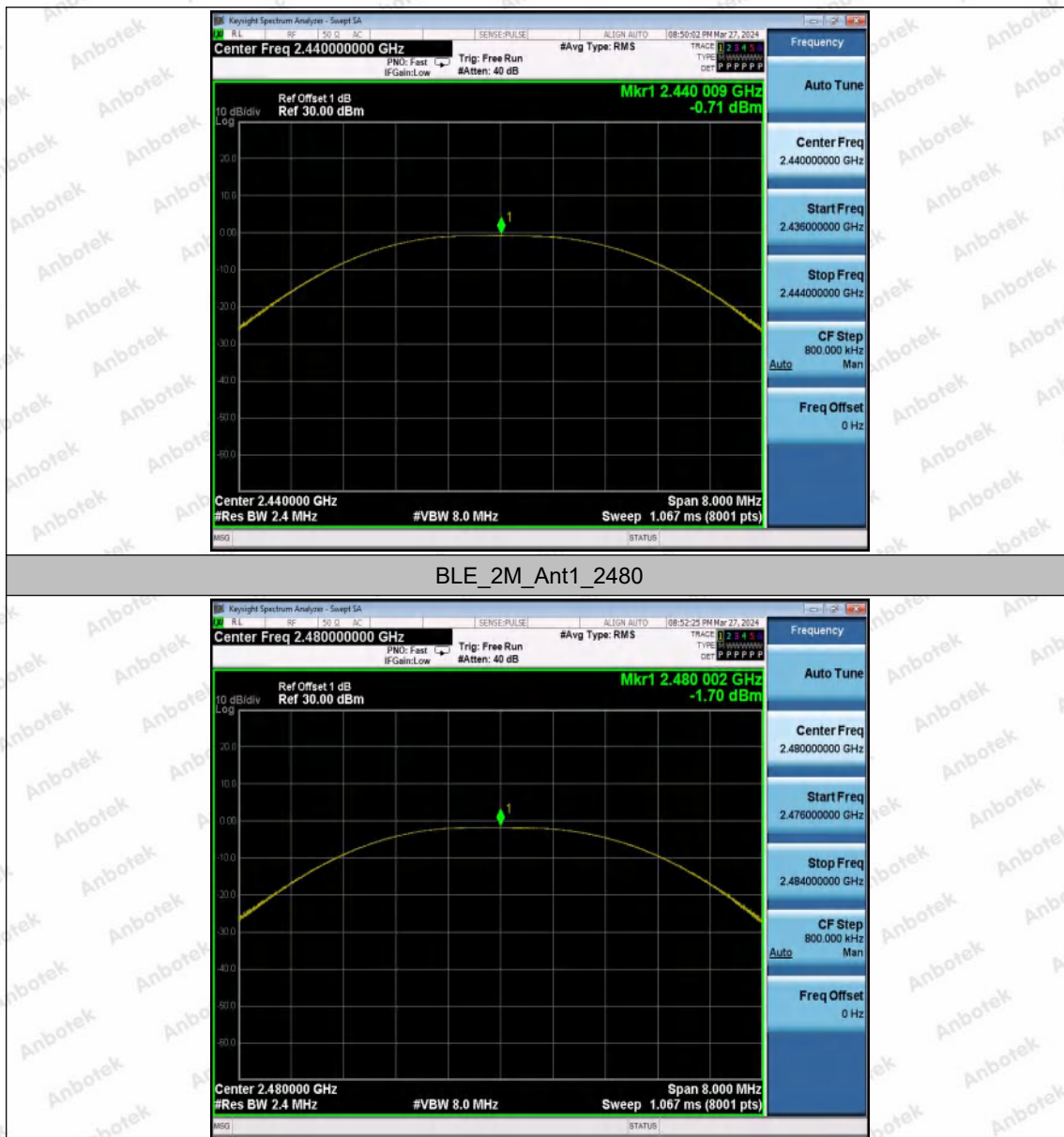
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Appendix D: Maximum Power Spectral Density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.17	≤8.00	PASS
		2440	-15.96	≤8.00	PASS
		2480	-16.78	≤8.00	PASS
BLE_2M	Ant1	2402	-17.38	≤8.00	PASS
		2440	-18.47	≤8.00	PASS
		2480	-19.71	≤8.00	PASS

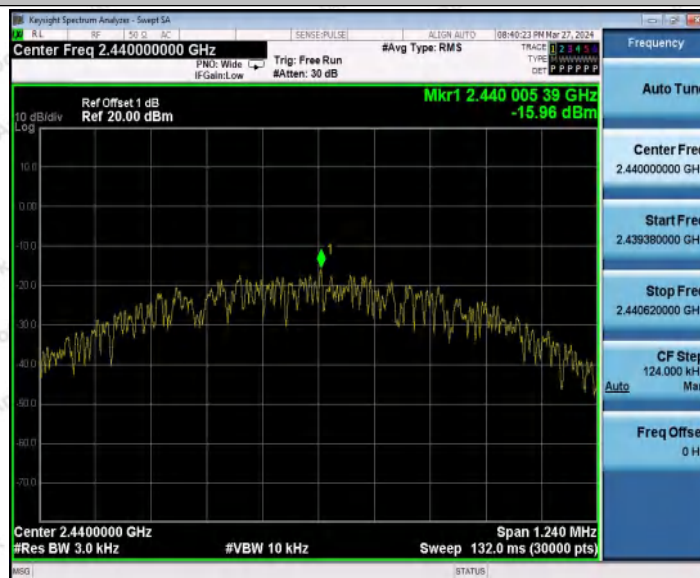


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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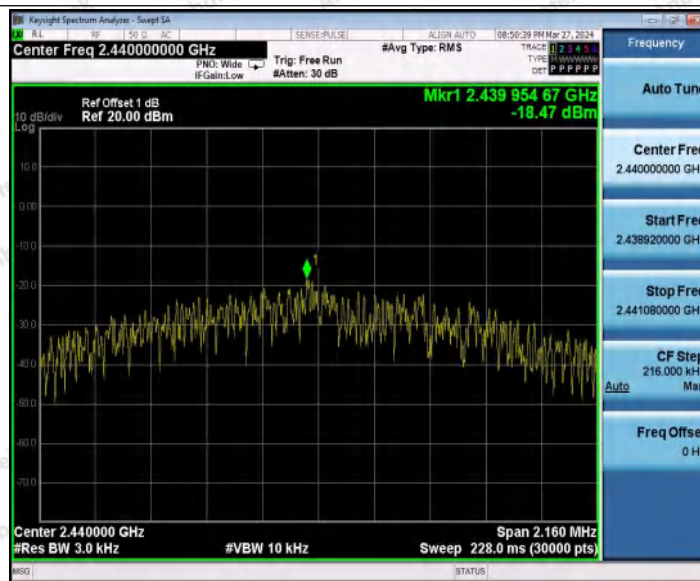


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



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Appendix E: Conducted Band edge

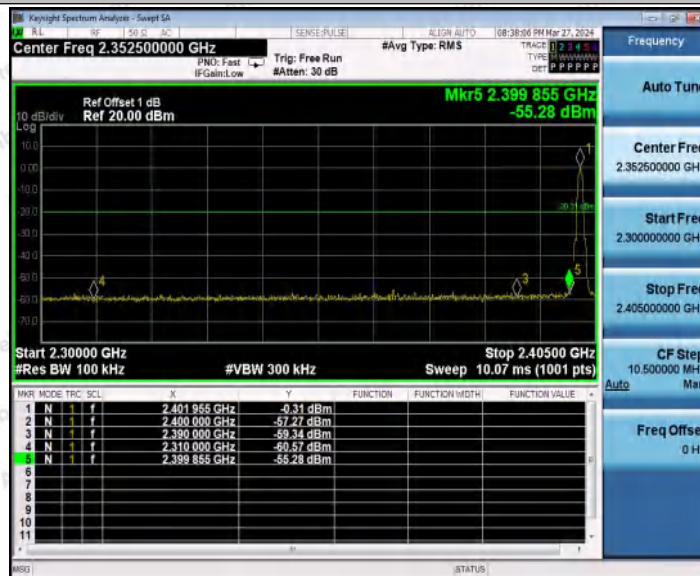
Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.31	-55.29	≤-20.31	PASS
		High	2480	-1.86	-55.36	≤-21.86	PASS
BLE_2M	Ant1	Low	2402	-0.35	-33.6	≤-20.35	PASS
		High	2480	-1.93	-56.31	≤-21.93	PASS

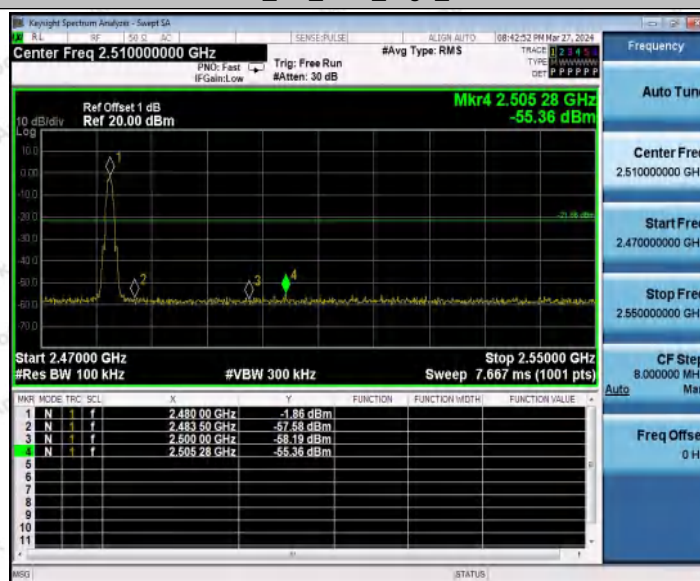


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

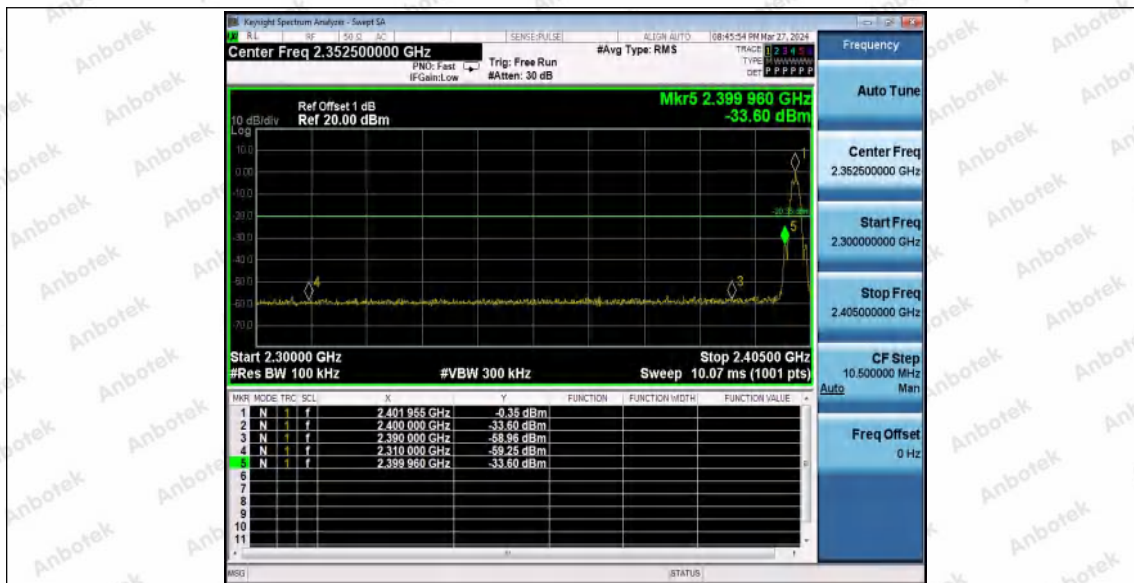
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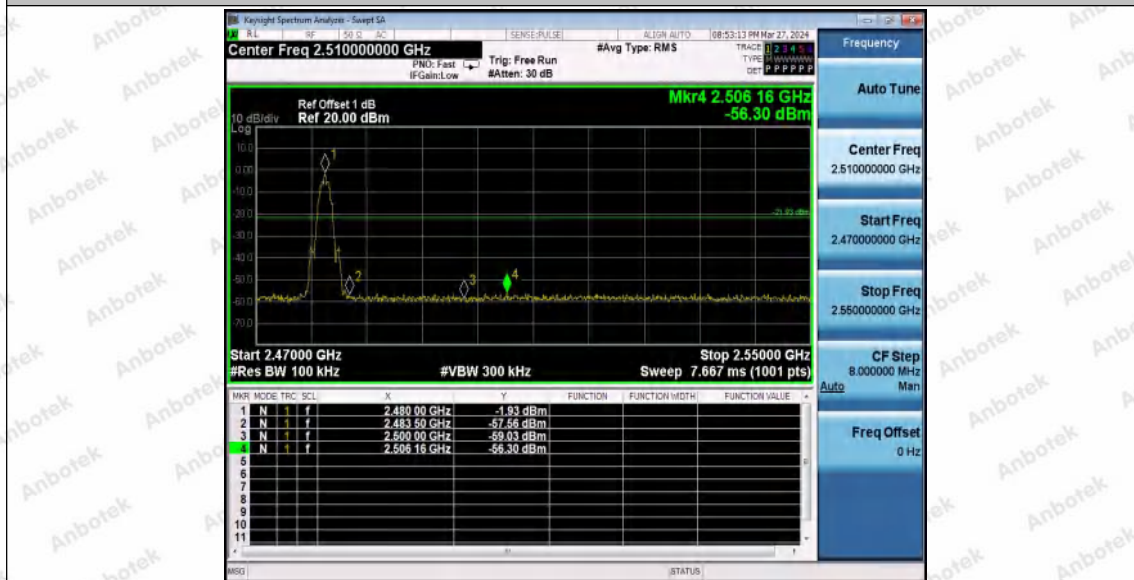


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BLE_2M_Ant1_High_2480



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	-0.49	-0.49	---	PASS
			30~1000	-0.49	-66.85	≤-20.49	PASS
			1000~26500	-0.49	-53.85	≤-20.49	PASS
		2440	Reference	-1.07	-1.07	---	PASS
			30~1000	-1.07	-67.39	≤-21.07	PASS
			1000~26500	-1.07	-53.85	≤-21.07	PASS
		2480	Reference	-2.01	-2.01	---	PASS
			30~1000	-2.01	-50.58	≤-22.01	PASS
			1000~26500	-2.01	-53.91	≤-22.01	PASS
BLE_2M	Ant1	2402	Reference	-0.42	-0.42	---	PASS
			30~1000	-0.42	-67.7	≤-20.42	PASS
			1000~26500	-0.42	-53.36	≤-20.42	PASS
		2440	Reference	-1.07	-1.07	---	PASS
			30~1000	-1.07	-67.79	≤-21.07	PASS
			1000~26500	-1.07	-53.68	≤-21.07	PASS
		2480	Reference	-2.00	-2.00	---	PASS
			30~1000	-2.00	-67.65	≤-22	PASS
			1000~26500	-2.00	-53.19	≤-22	PASS

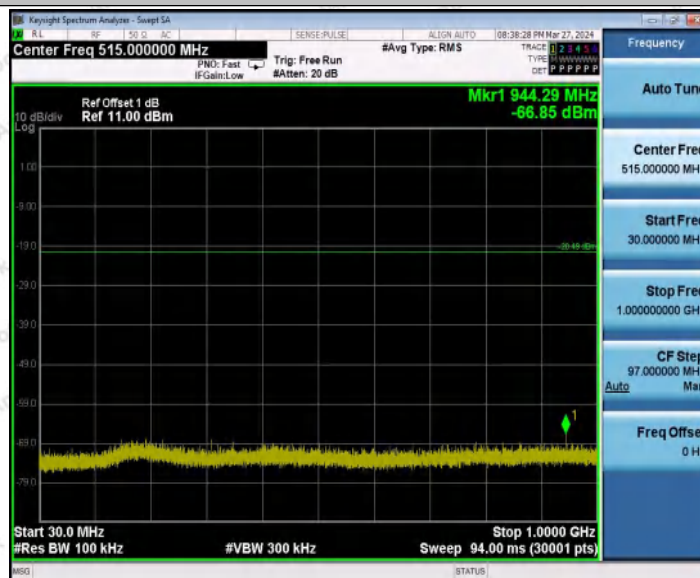


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

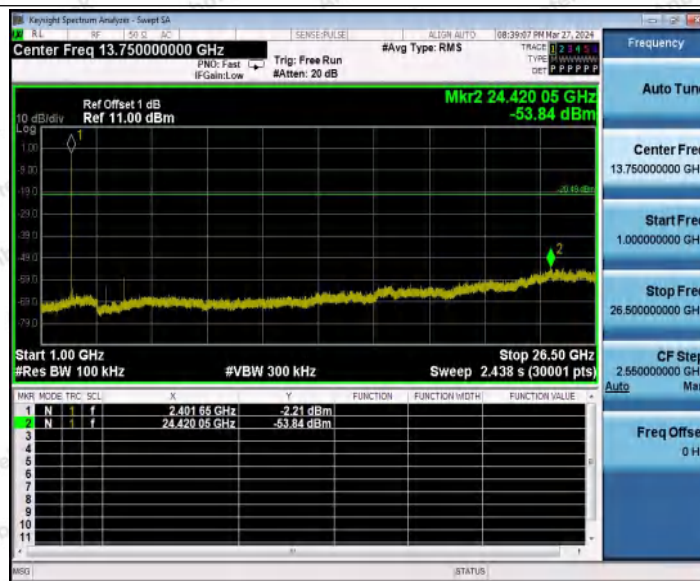
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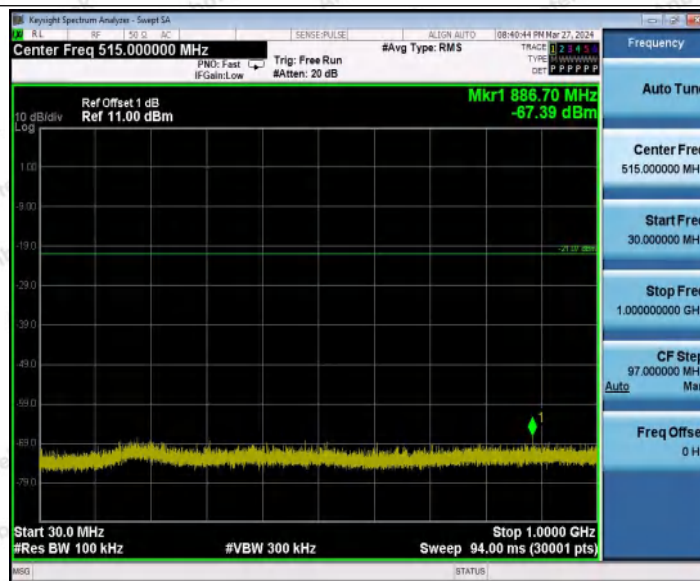


BLE_1M_Ant1_2440_0~Reference

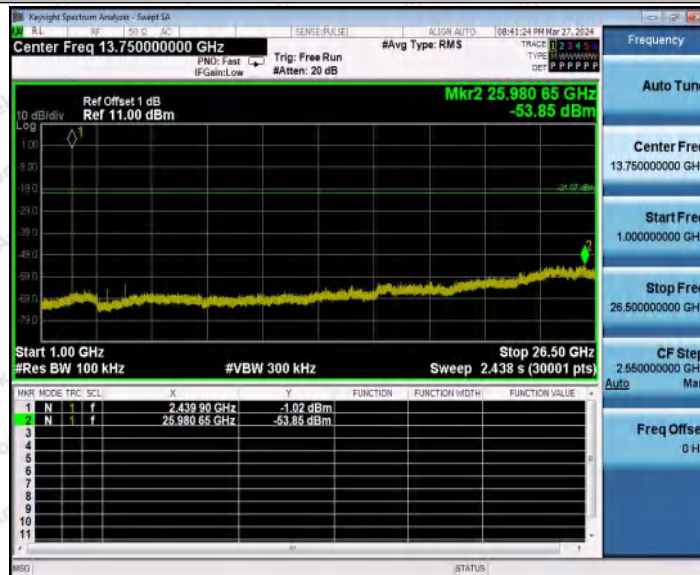


BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500

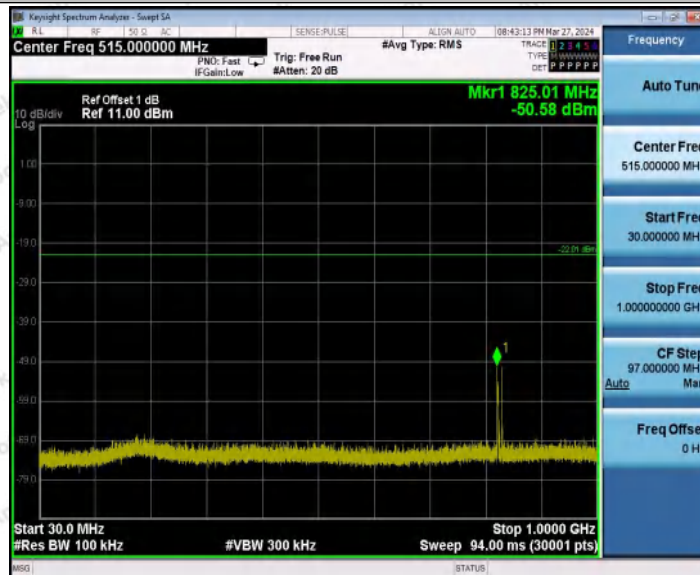


BLE_1M_Ant1_2480_0~Reference



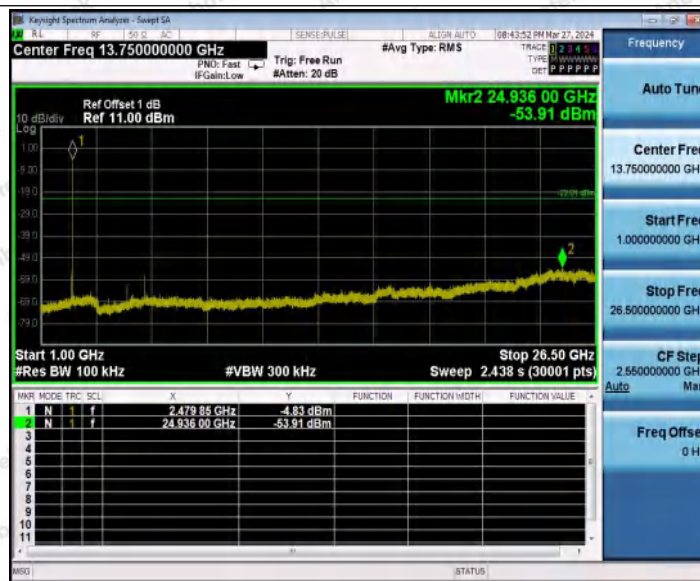


BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500





BLE_2M_Ant1_2402_0~Reference

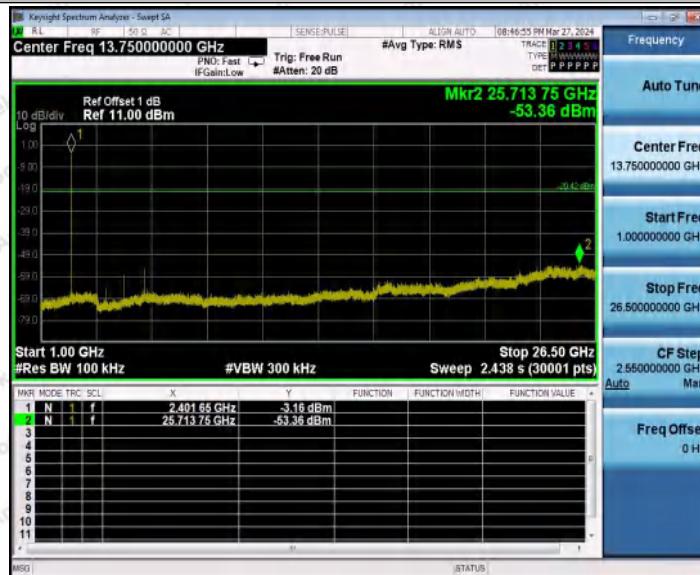


BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500

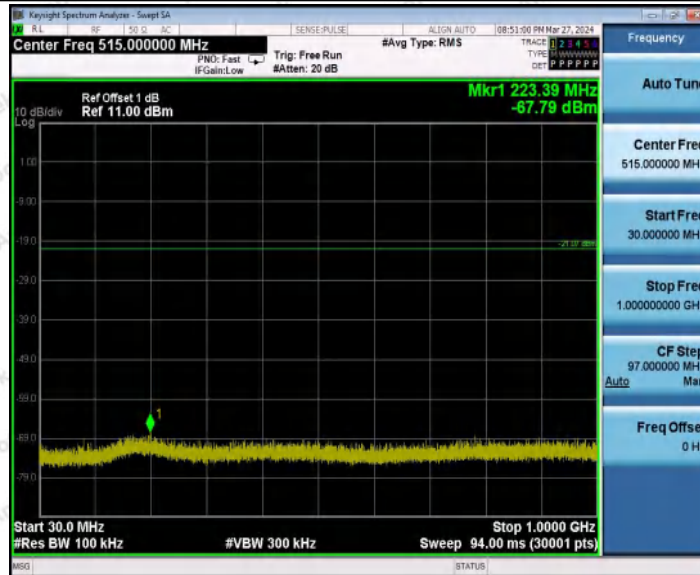


BLE_2M_Ant1_2440_0~Reference





BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

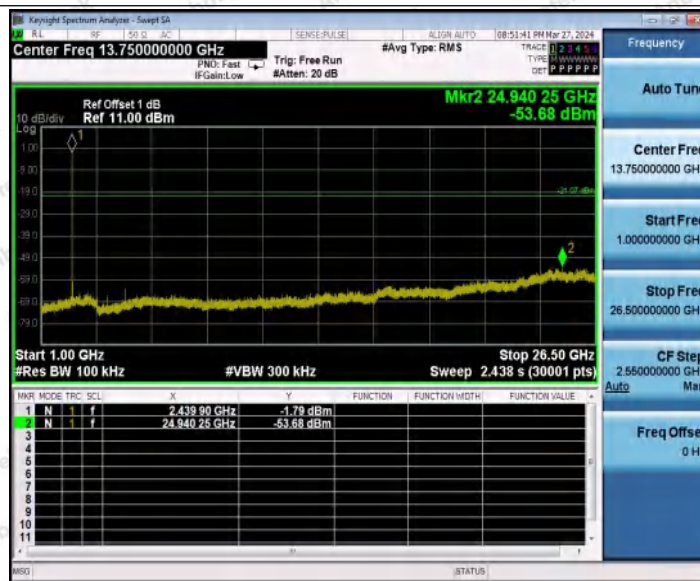
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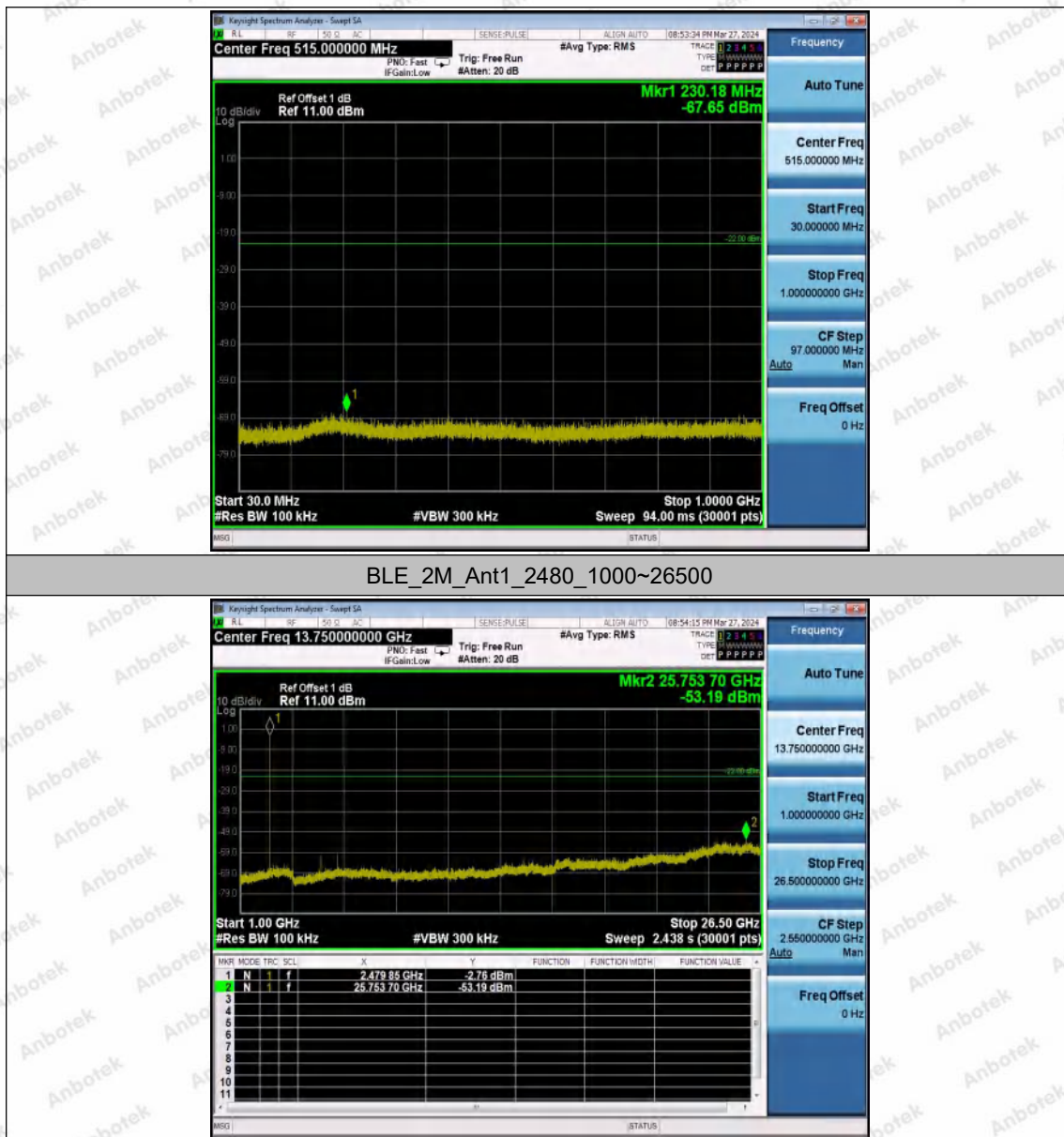


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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Appendix G: Duty Cycle

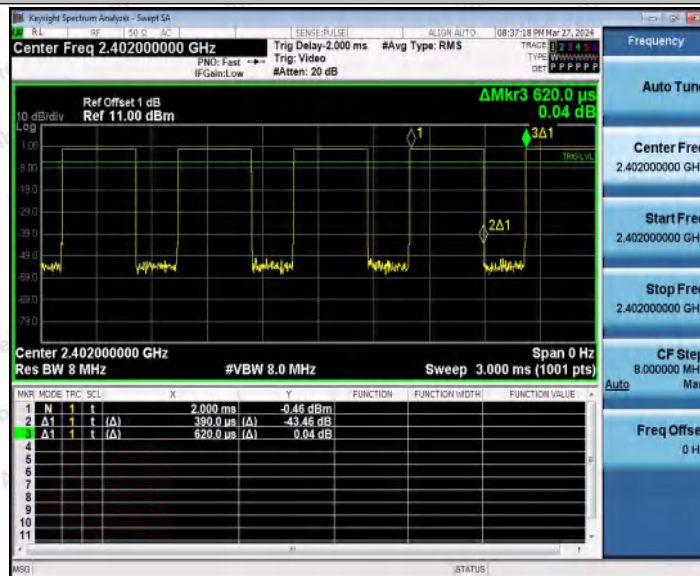
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.01
		2440	0.39	0.63	61.90	2.08
		2480	0.39	0.62	62.90	2.01
BLE_2M	Ant1	2402	0.20	0.62	32.26	4.91
		2440	0.20	0.62	32.26	4.91
		2480	0.20	0.62	32.26	4.91

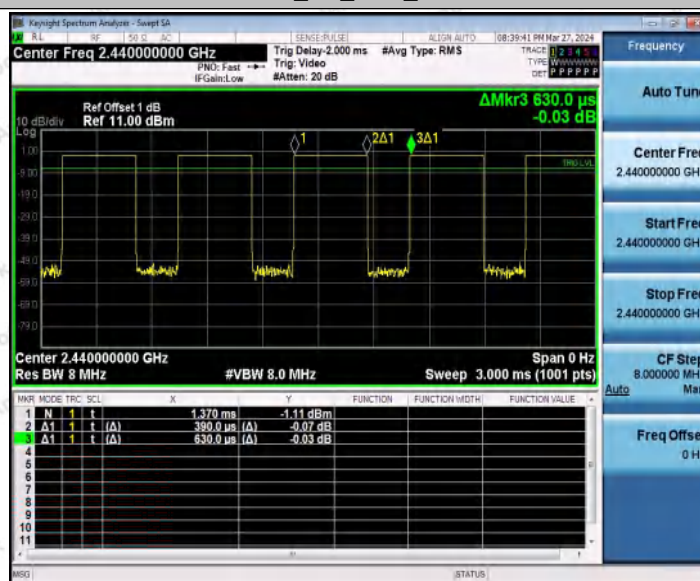


Test Graphs

BLE_1M_Ant1_2402

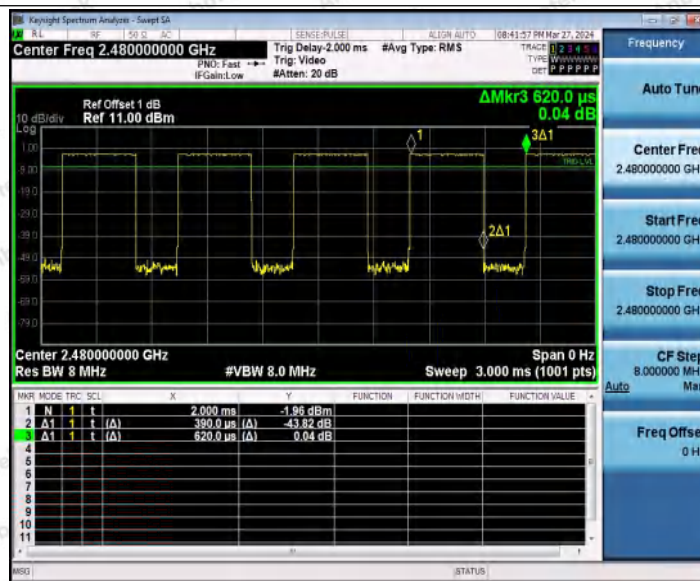


BLE_1M_Ant1_2440

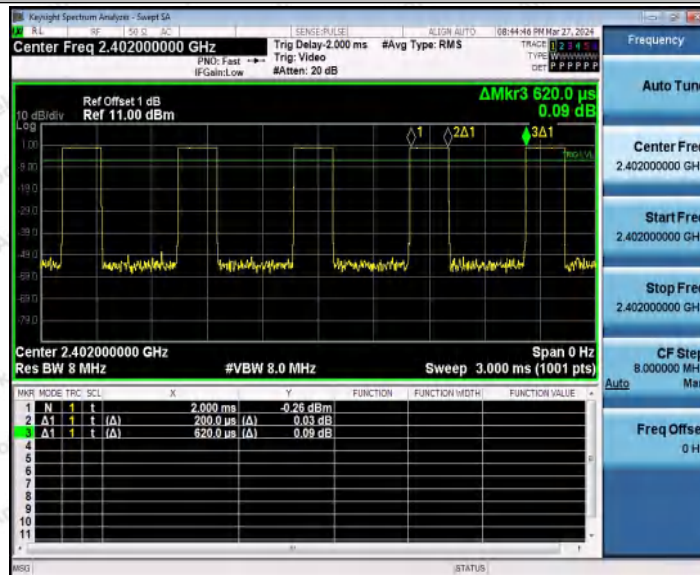


BLE_1M_Ant1_2480



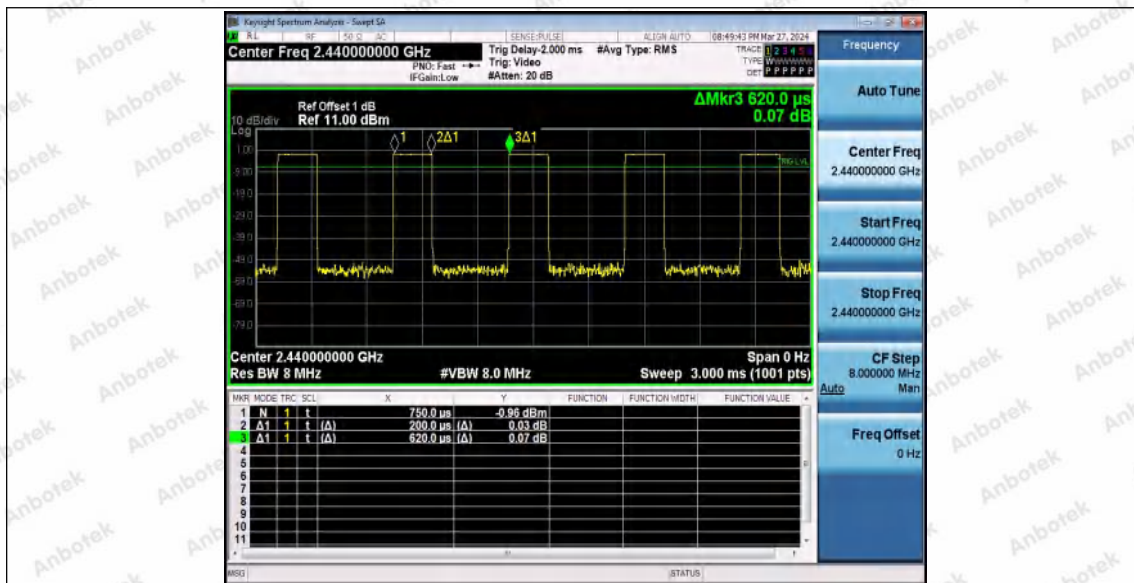


BLE_2M_Ant1_2402

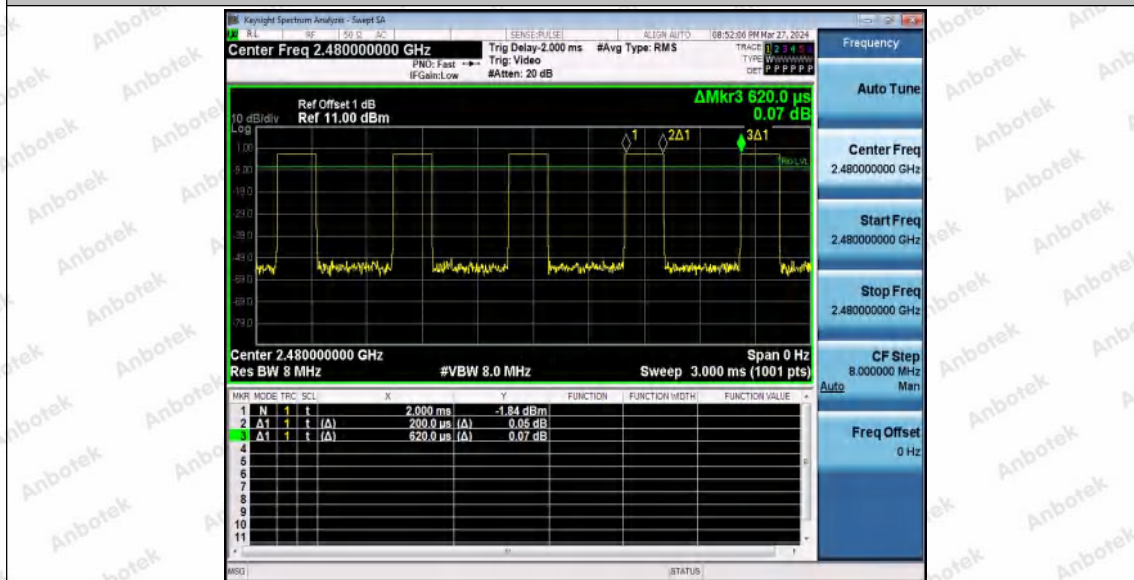


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



---END---

