

Appendix Test Data

Report No.:	18220WC30001902	Test Sample No.:	1-2-2
Start Test Date:	2023.1.5	Finish Test Date:	2023.1.11
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°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	0.668	2439.680	2440.348	0.5	PASS
		2480	0.676	2479.664	2480.340	0.5	PASS



Test Graphs



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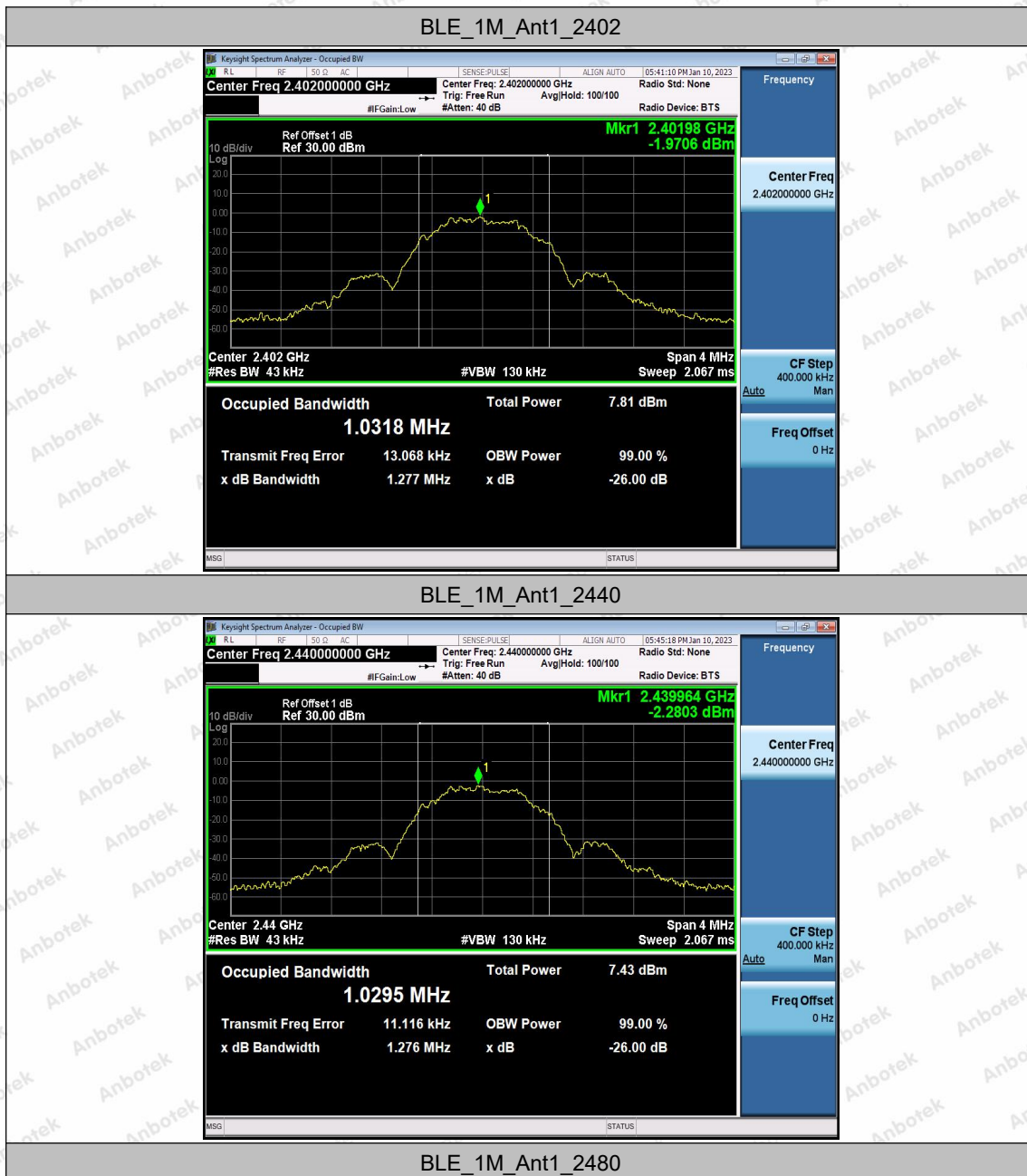
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0318	2401.4972	2402.5290
		2440	1.0295	2439.4964	2440.5259
		2480	1.0322	2479.4970	2480.5292



Test Graphs



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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	1.47	≤30	PASS
		2440	1.06	≤30	PASS
		2480	0.45	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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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	-13.67	≤8.00	PASS
		2440	-14.1	≤8.00	PASS
		2480	-14.63	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

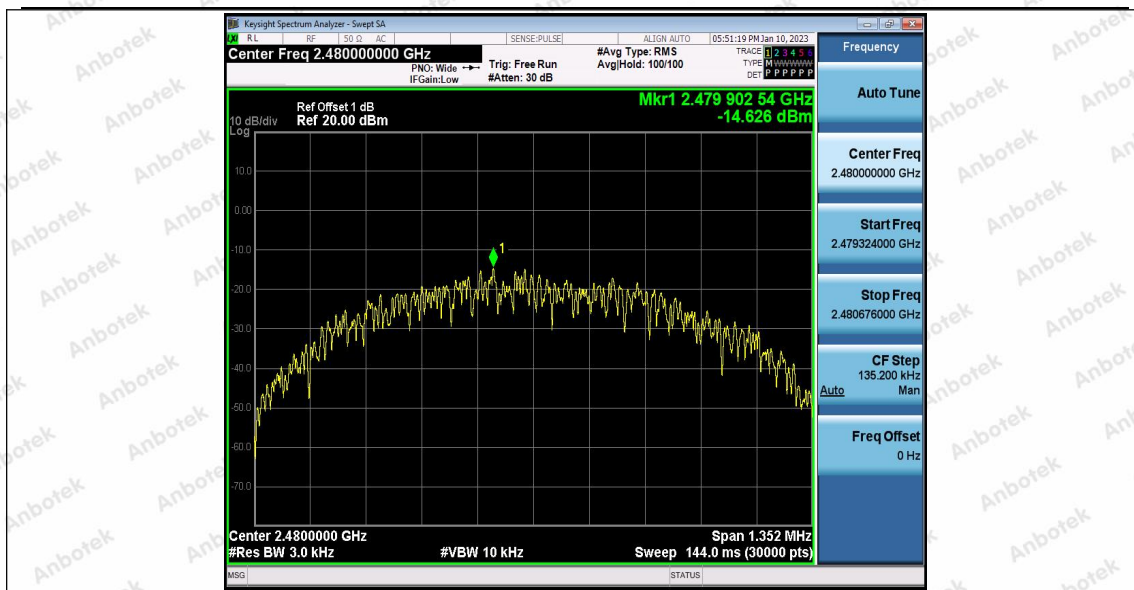
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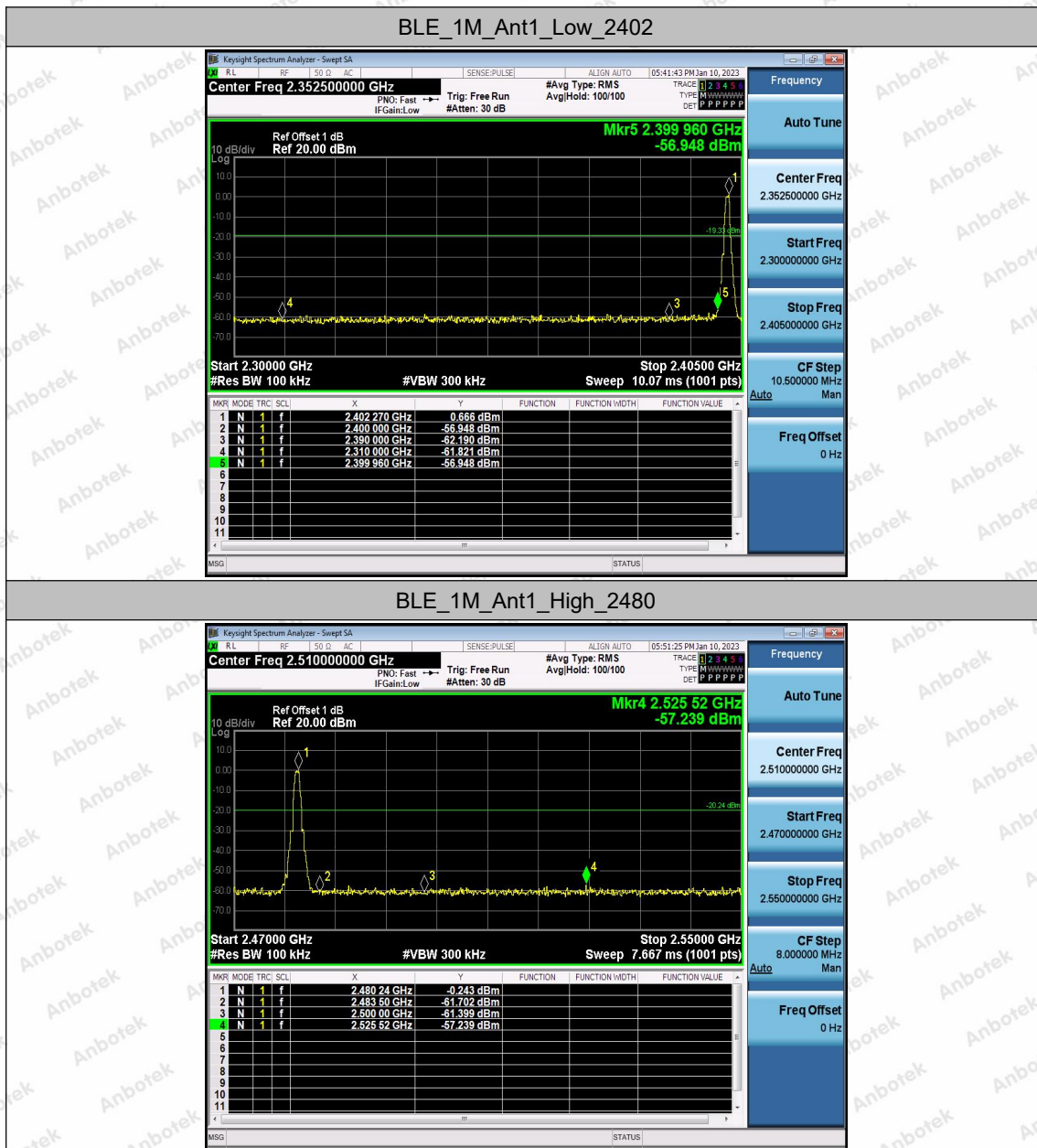
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.67	-56.95	≤-19.33	PASS
		High	2480	-0.24	-57.24	≤-20.24	PASS



Test Graphs



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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	-0.05	-0.05	---	PASS
			30~1000	-0.05	-68.26	≤-20.05	PASS
			1000~26500	-0.05	-53.42	≤-20.05	PASS
		2440	Reference	-0.38	-0.38	---	PASS
			30~1000	-0.38	-69.13	≤-20.38	PASS
			1000~26500	-0.38	-53.25	≤-20.38	PASS
		2480	Reference	-0.62	-0.62	---	PASS
			30~1000	-0.62	-69.08	≤-20.62	PASS
			1000~26500	-0.62	-52.66	≤-20.62	PASS

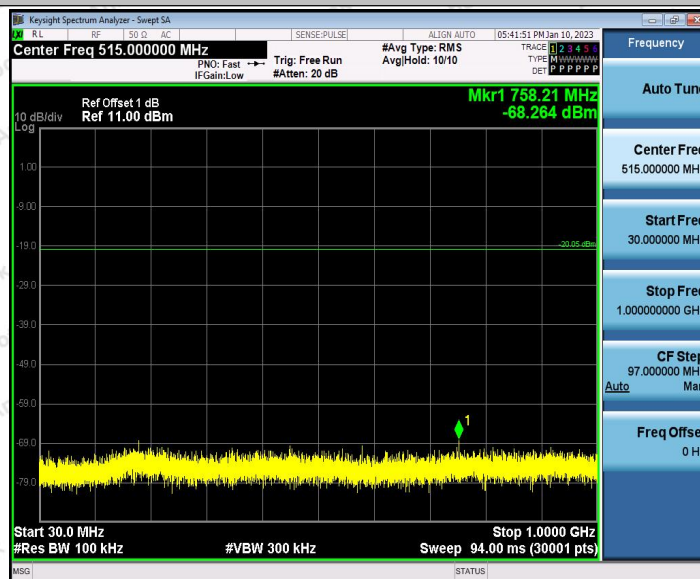


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

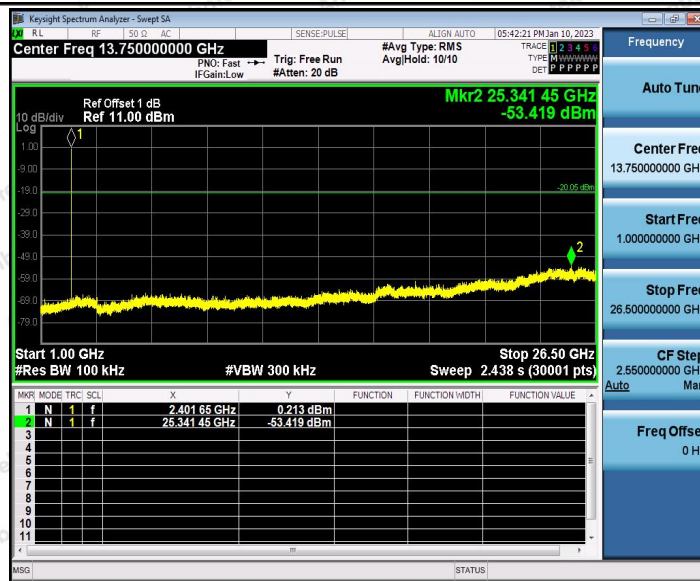
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

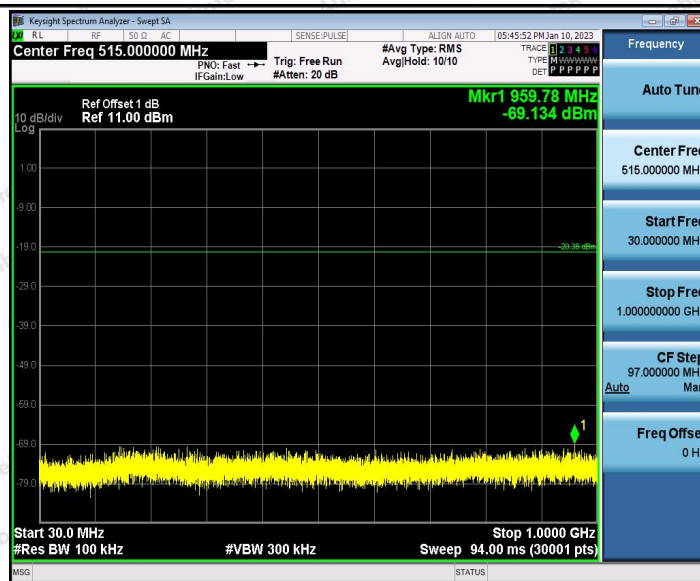
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference





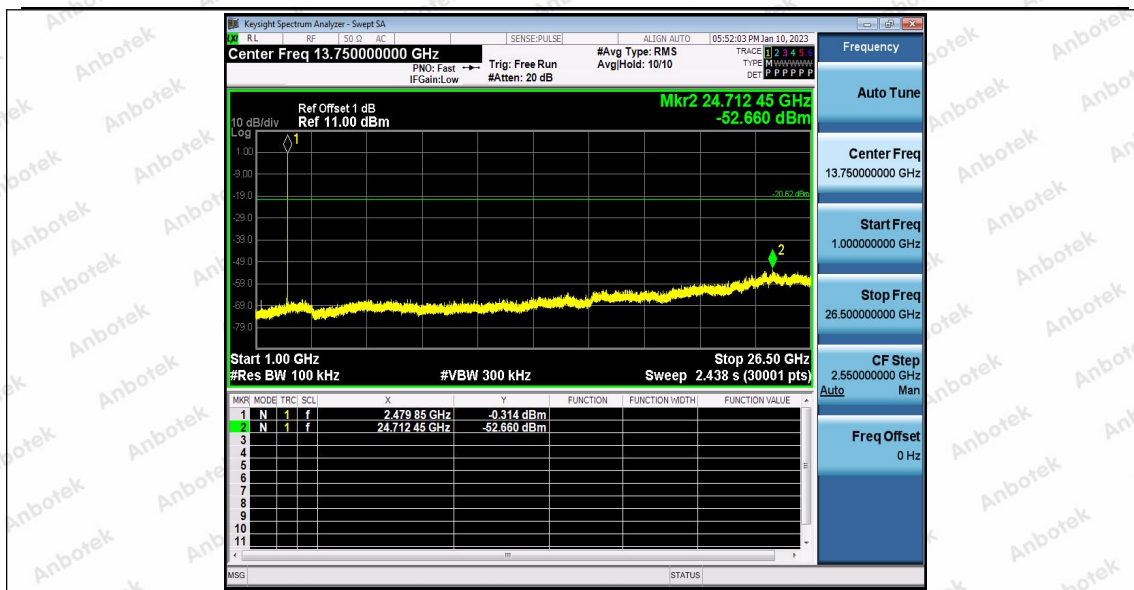
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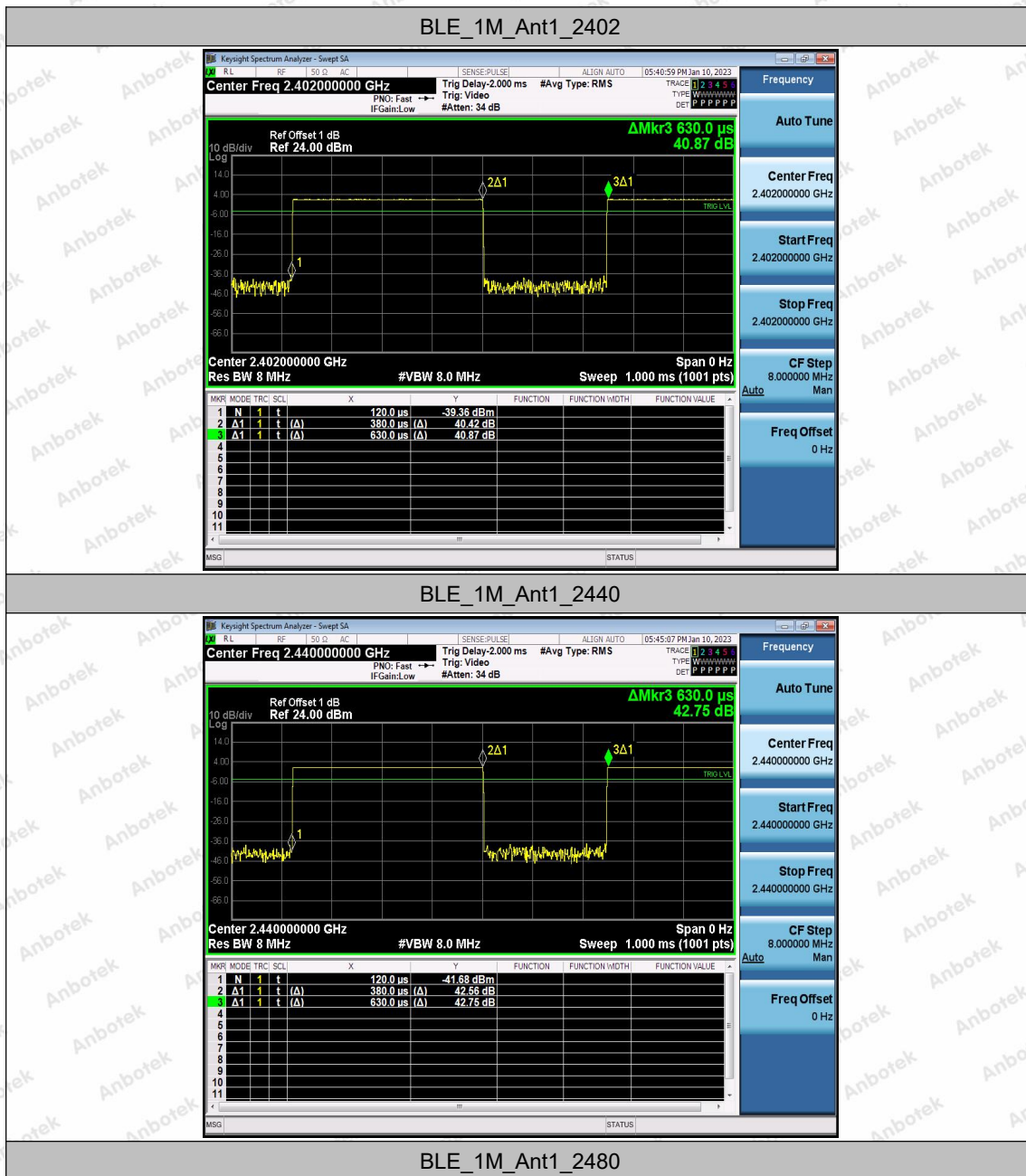
Appendix G: Duty Cycle

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



Test Graphs



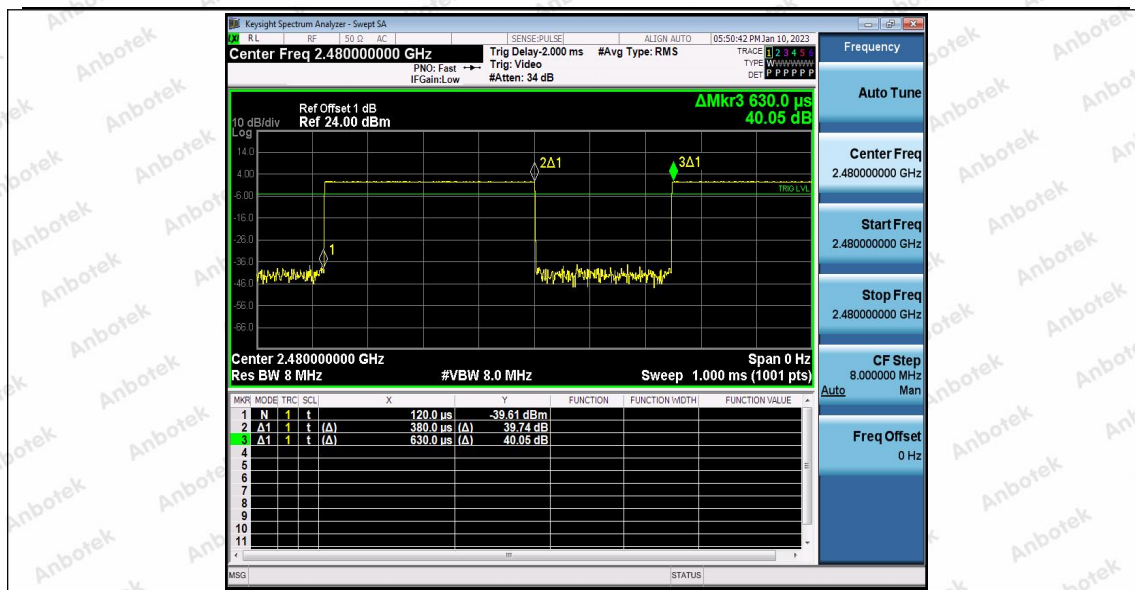
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