

Appendix Test Data

Report No.:	18220WC30007801	Test Sample No.:	1-2-2
Start Test Date:	2023.1.29	Finish Test Date:	2023.1.31
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	23.3°C	Relative Humidity:	40 %
Pressure:	1012 hPa		

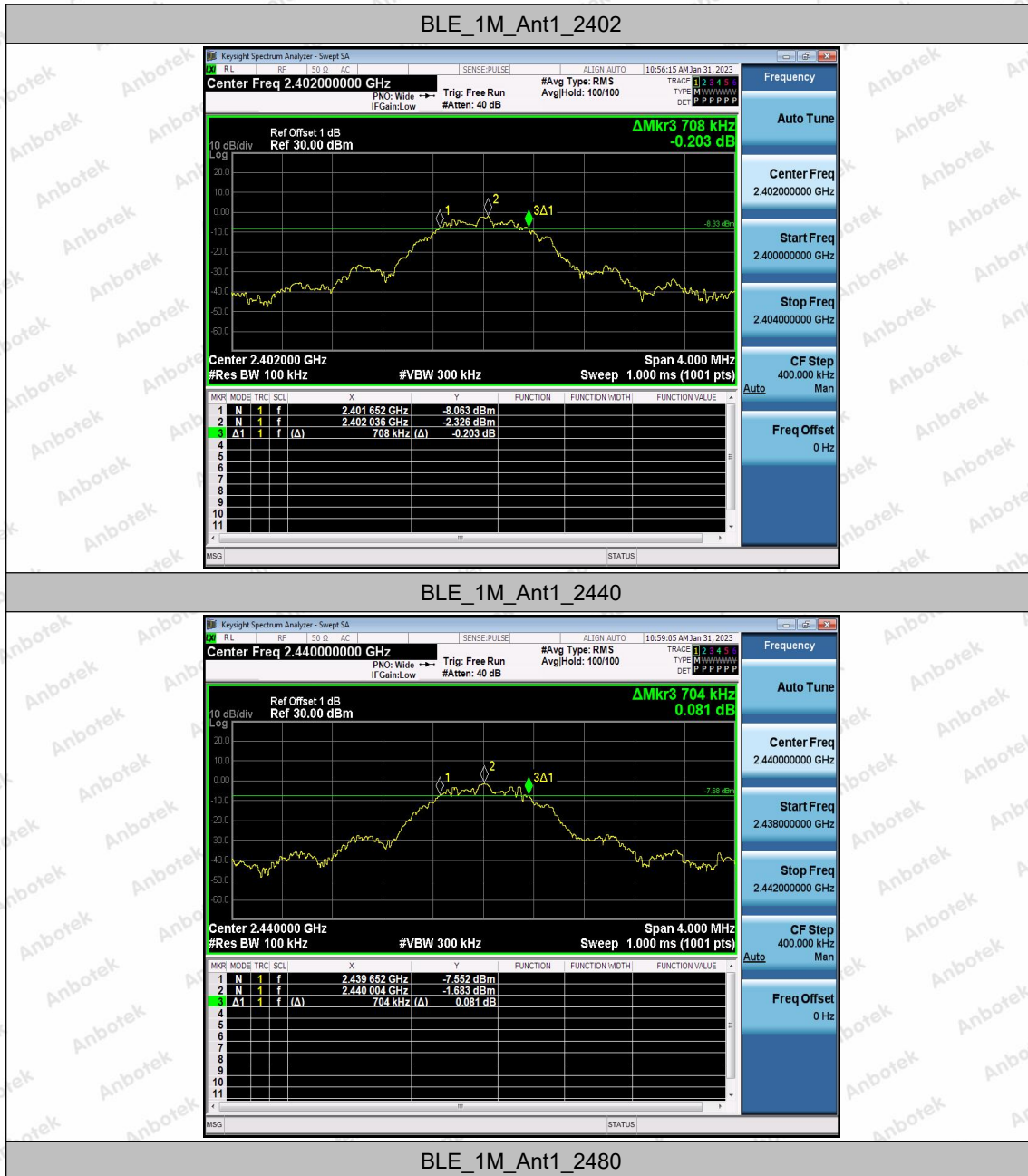
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.708	2401.652	2402.360	0.5	PASS
		2440	0.704	2439.652	2440.356	0.5	PASS
		2480	0.700	2479.656	2480.356	0.5	PASS



Test Graphs



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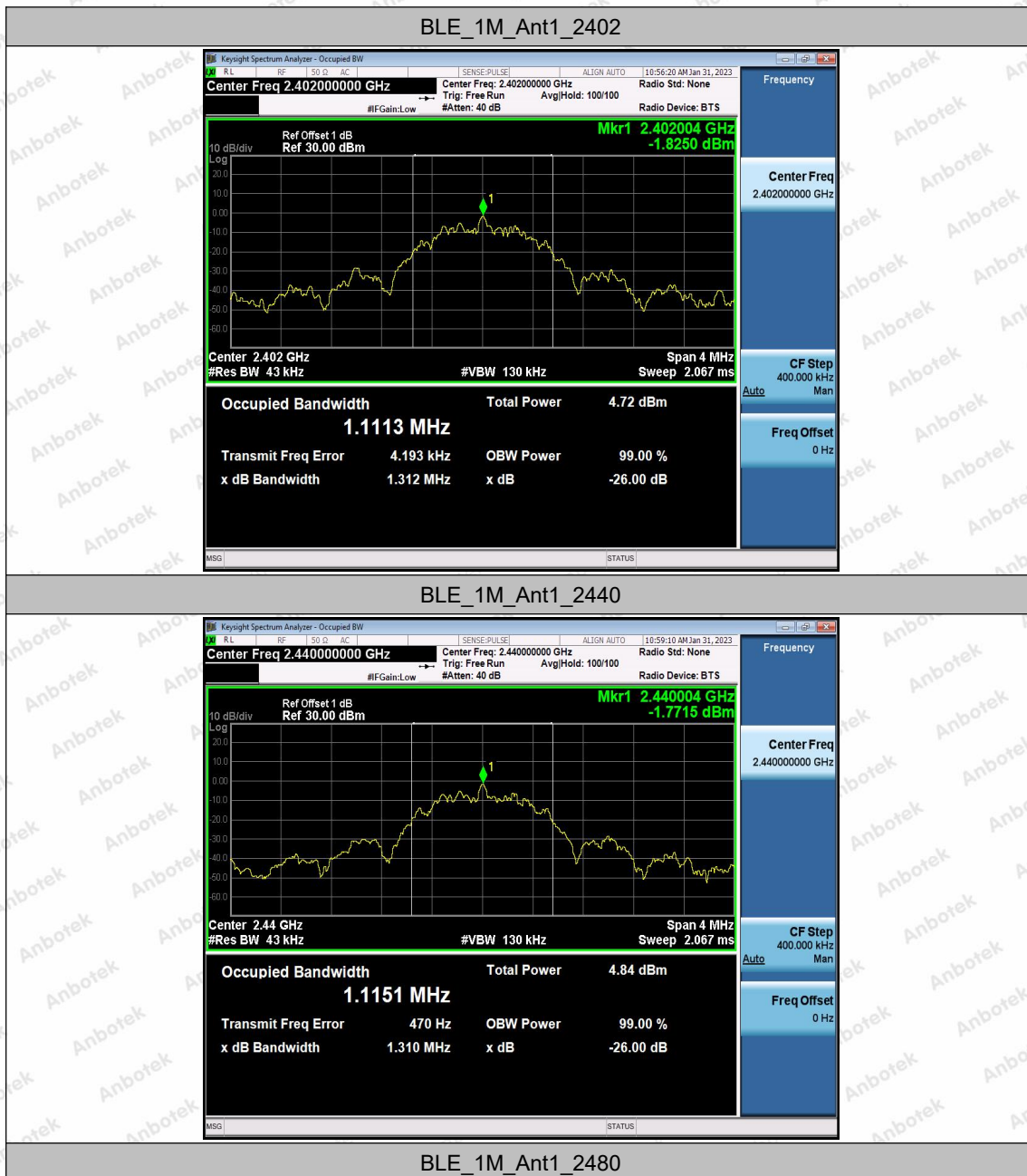
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.1113	2401.4485	2402.5598
		2440	1.1151	2439.4429	2440.5580
		2480	1.1128	2479.4441	2480.5569



Test Graphs



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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	-1.73	≤30	PASS
		2440	-1.57	≤30	PASS
		2480	-1.02	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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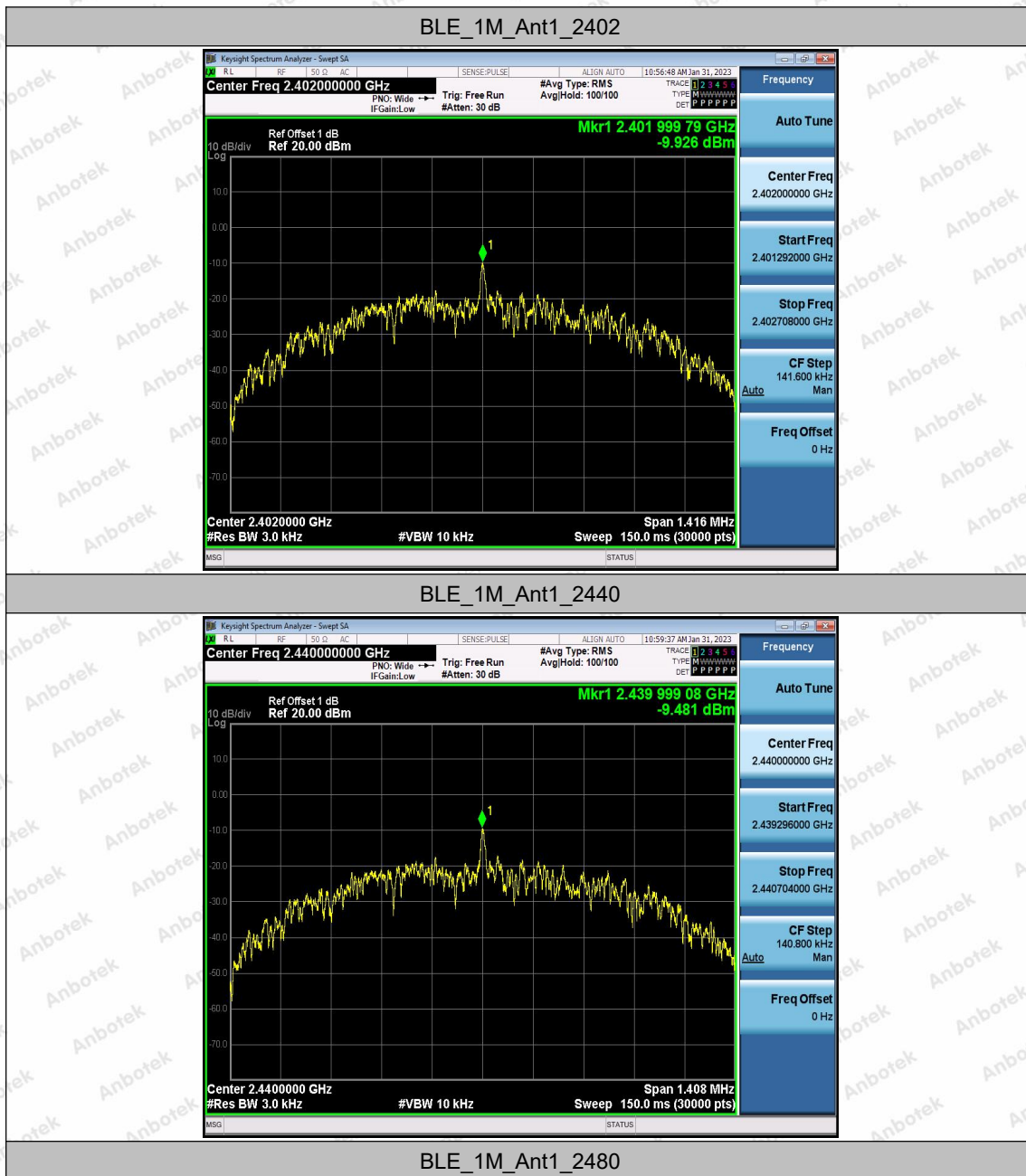
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.93	≤8.00	PASS
		2440	-9.48	≤8.00	PASS
		2480	-9.53	≤8.00	PASS



Test Graphs



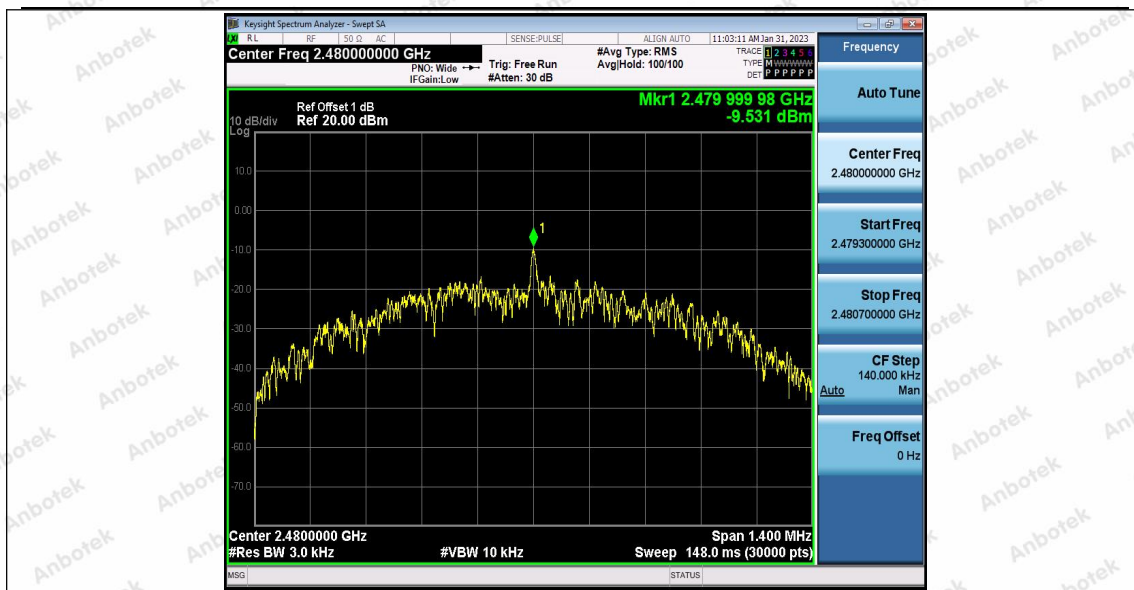
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.60	-36.4	≤-21.6	PASS
		High	2480	-1.08	-32.33	≤-21.08	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	-4.53	-4.53	---	PASS
			30~1000	-4.53	-63.4	≤-24.53	PASS
			1000~26500	-4.53	-39.24	≤-24.53	PASS
		2440	Reference	-5.02	-5.02	---	PASS
			30~1000	-5.02	-63.48	≤-25.02	PASS
			1000~26500	-5.02	-41.52	≤-25.02	PASS
		2480	Reference	-3.27	-3.27	---	PASS
			30~1000	-3.27	-62.7	≤-23.27	PASS
			1000~26500	-3.27	-46.74	≤-23.27	PASS

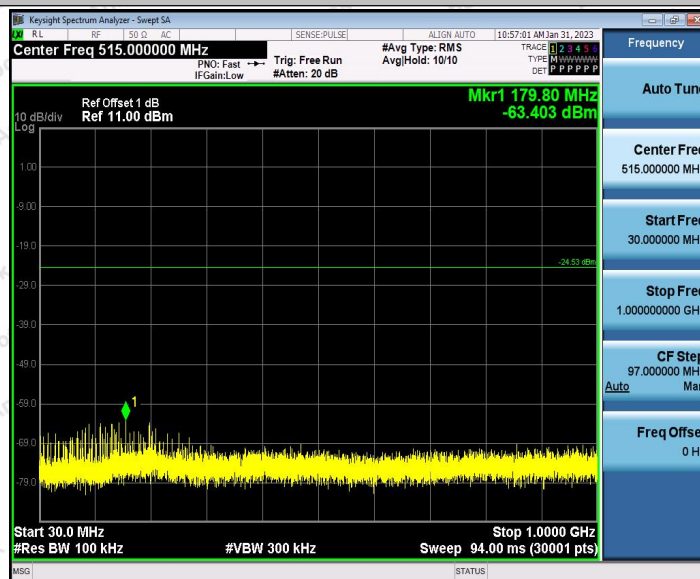


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

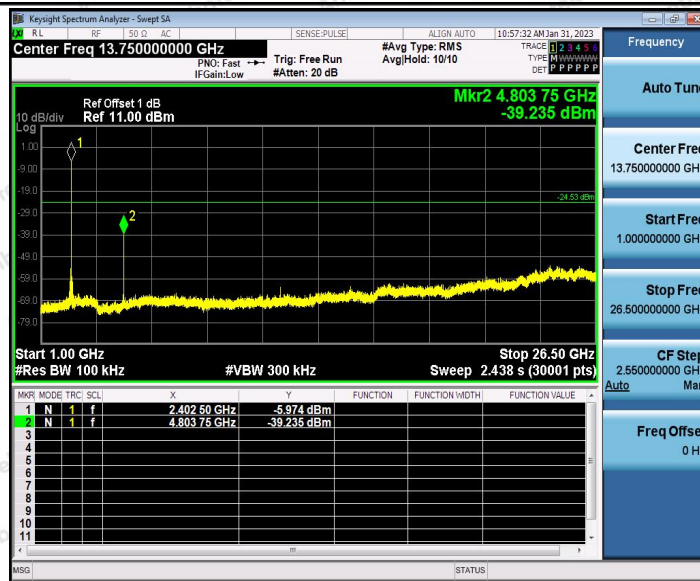
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

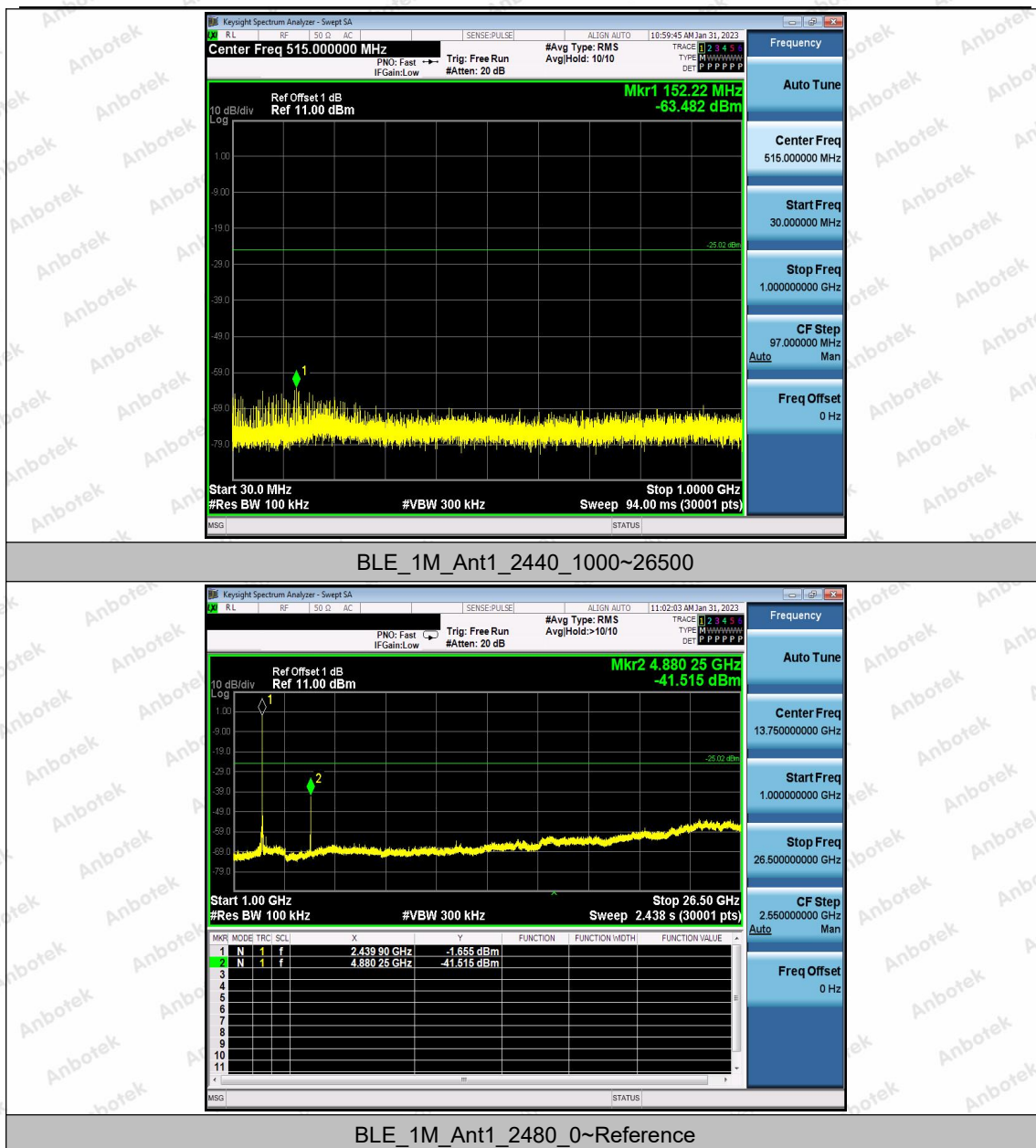
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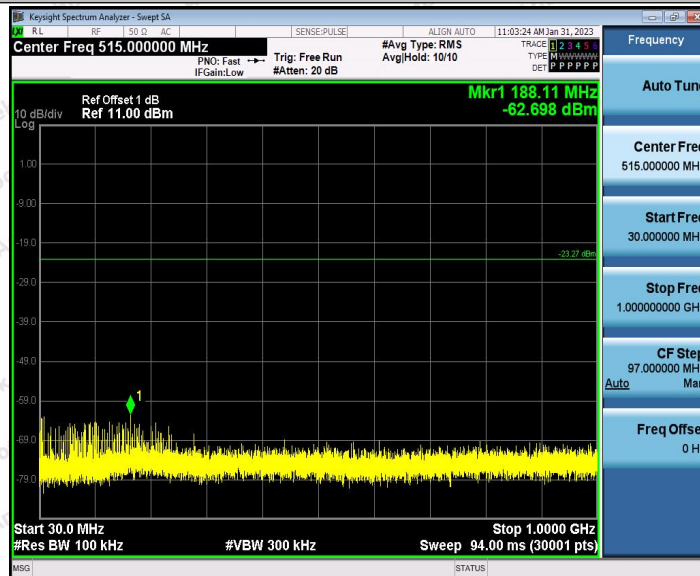


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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

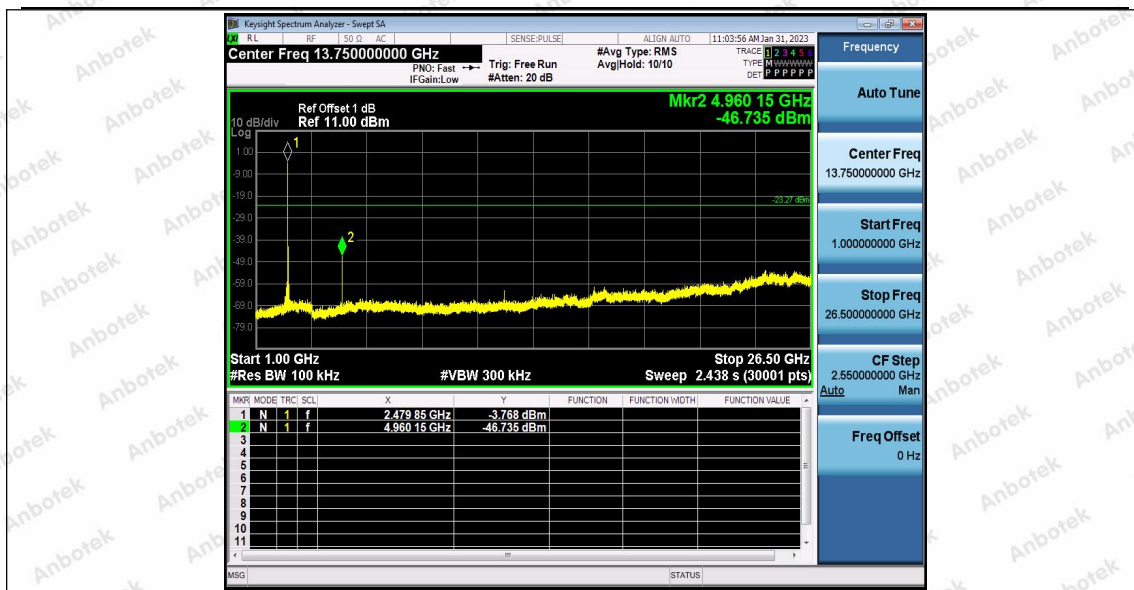
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Appendix G: Duty Cycle

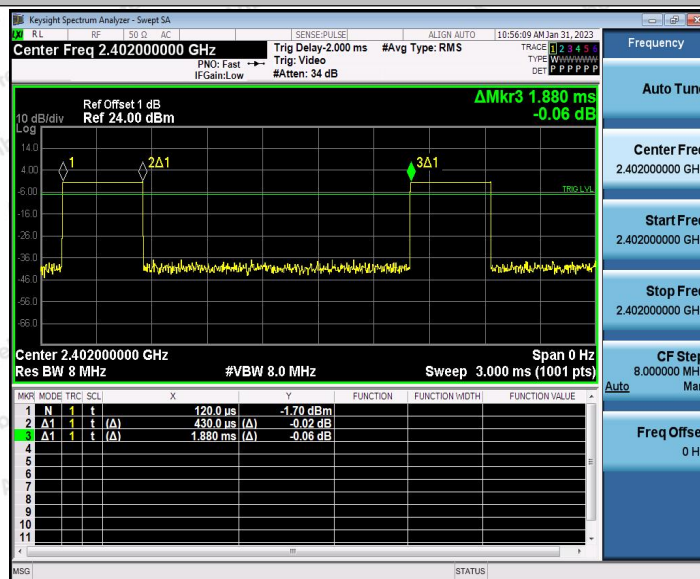
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.43	1.88	22.87	6.41
		2440	0.43	1.86	23.12	6.36
		2480	0.43	1.87	22.99	6.38

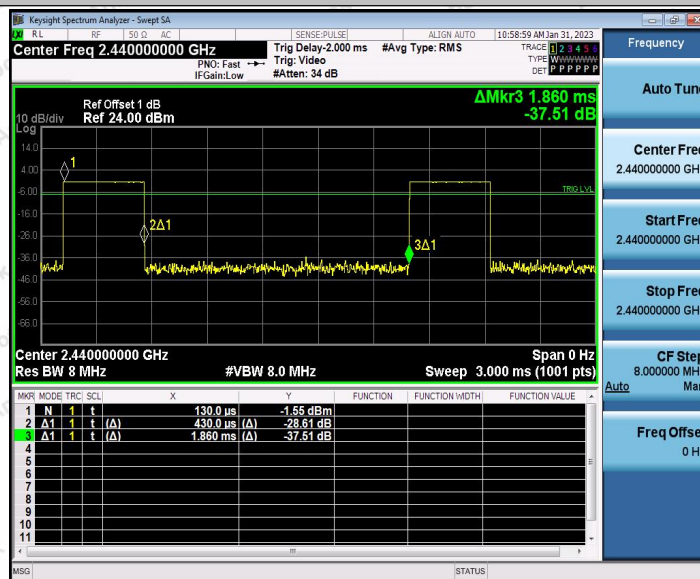


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

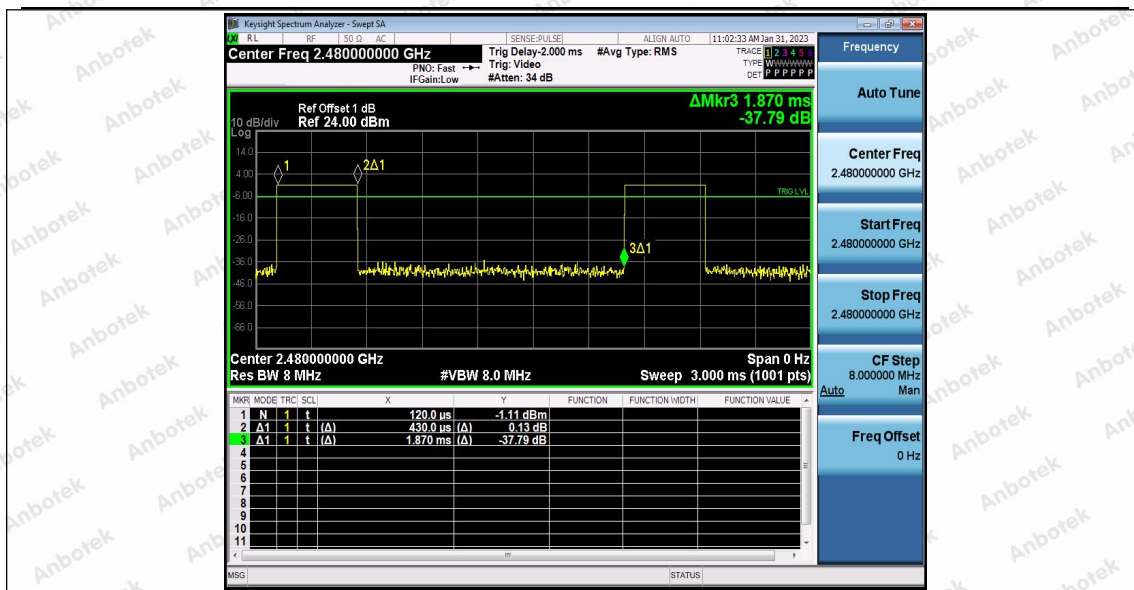
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