

Appendix Test Data

Report No.:	18220WC30022702	Test Sample No.:	1-2-2
Start Test Date:	2023.02.15	Finish Test Date:	2023.02.20
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	25.0°C	Relative Humidity:	41 %
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	0.652	2401.628	2402.280	0.5	PASS
		2440	0.608	2439.664	2440.272	0.5	PASS
		2480	0.656	2479.632	2480.288	0.5	PASS
BLE_2M	Ant1	2402	1.148	2401.376	2402.524	0.5	PASS
		2440	1.060	2439.452	2440.512	0.5	PASS
		2480	1.060	2479.444	2480.504	0.5	PASS

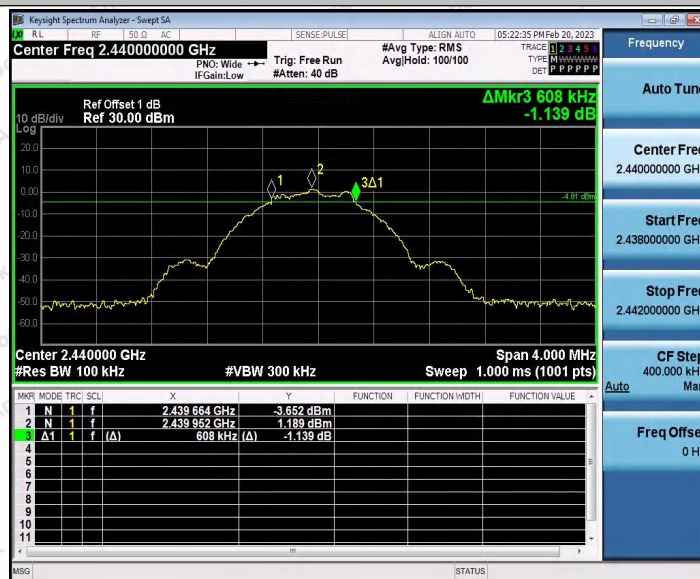


Test Graphs

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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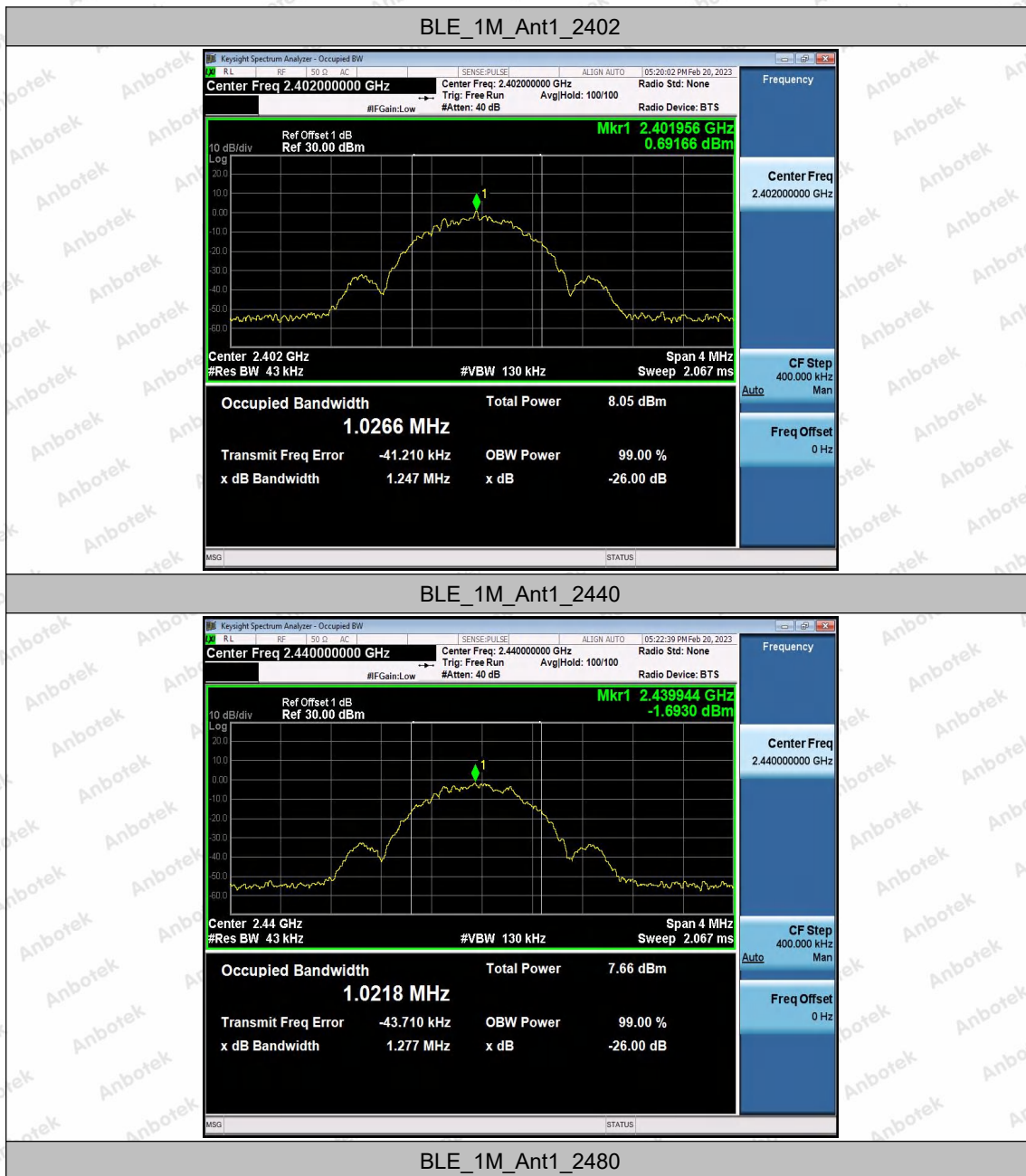
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0266	2401.4455	2402.4721
		2440	1.0218	2439.4454	2440.4672
		2480	1.0248	2479.4414	2480.4662
BLE_2M	Ant1	2402	2.0360	2400.9582	2402.9942
		2440	2.0552	2438.9408	2440.9960
		2480	2.0407	2478.9521	2480.9928



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

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.16	≤30	PASS
		2440	1.72	≤30	PASS
		2480	1.74	≤30	PASS
BLE_2M	Ant1	2402	1.96	≤30	PASS
		2440	1.68	≤30	PASS
		2480	1.97	≤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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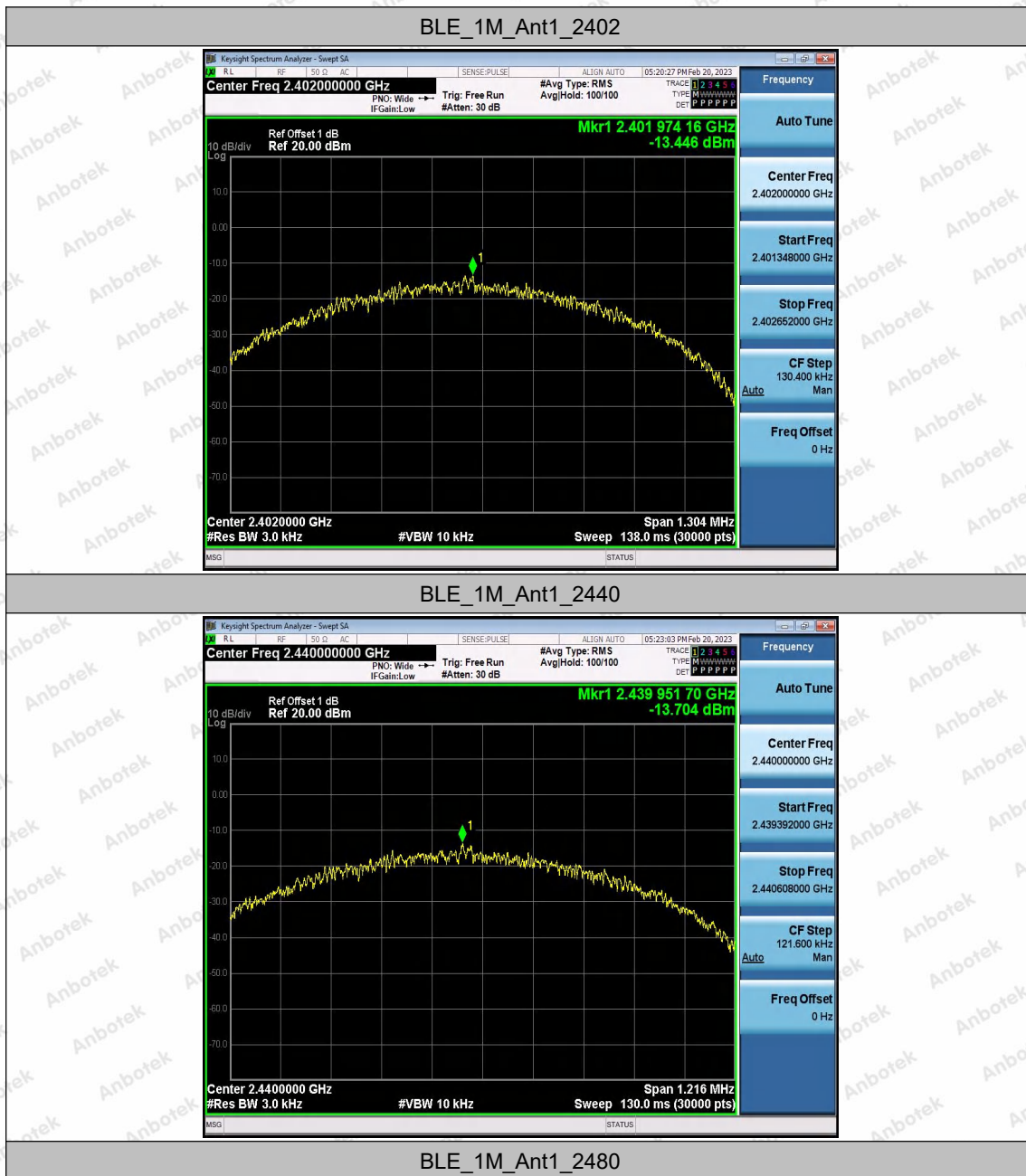
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.45	≤8.00	PASS
		2440	-13.7	≤8.00	PASS
		2480	-13.7	≤8.00	PASS
BLE_2M	Ant1	2402	-15.16	≤8.00	PASS
		2440	-15.54	≤8.00	PASS
		2480	-15.12	≤8.00	PASS



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

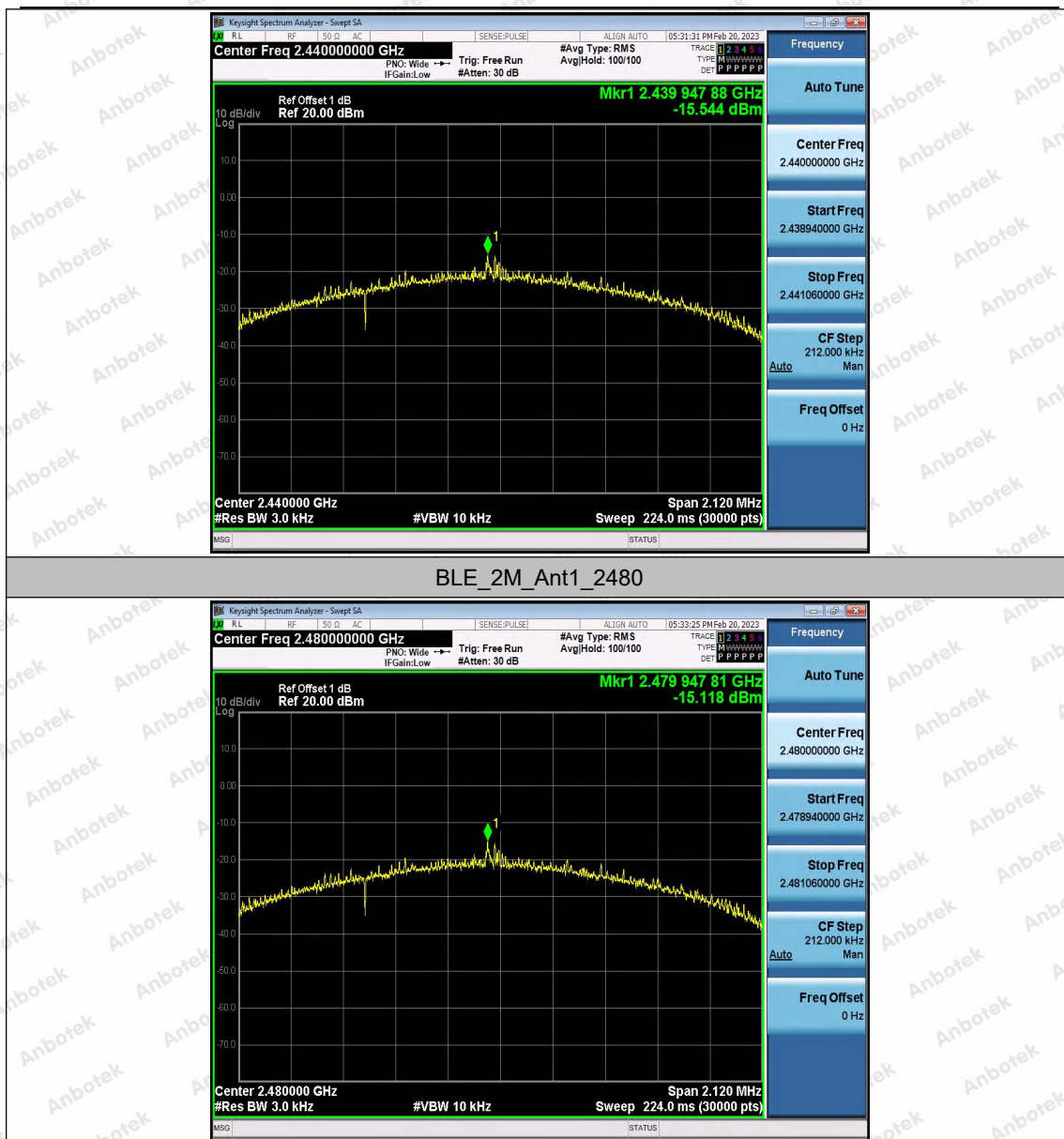
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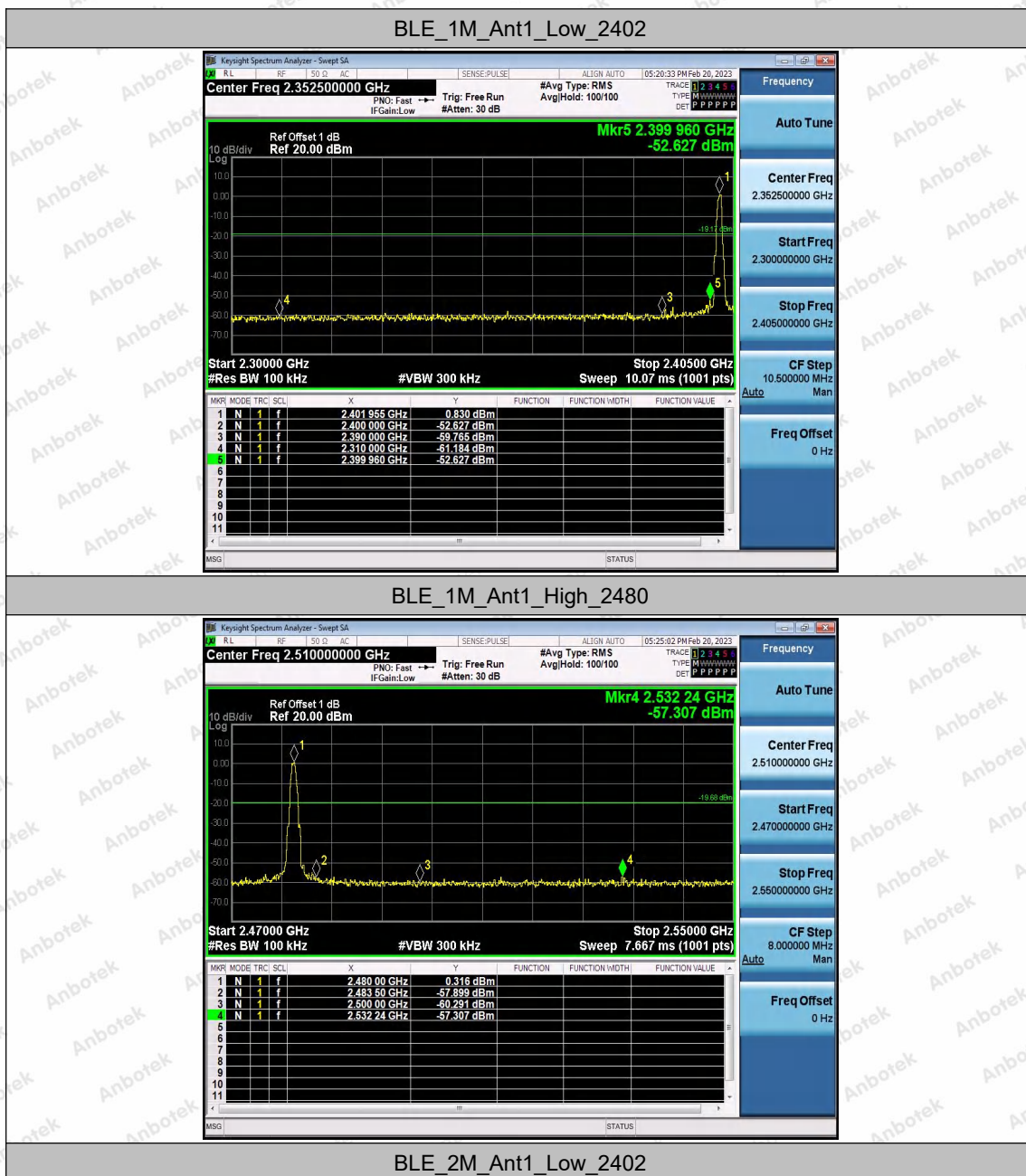
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.83	-52.63	≤-19.17	PASS
		High	2480	0.32	-57.31	≤-19.68	PASS
BLE_2M	Ant1	Low	2402	0.05	-47.32	≤-19.95	PASS
		High	2480	1.68	-54.93	≤-18.32	PASS



Test Graphs



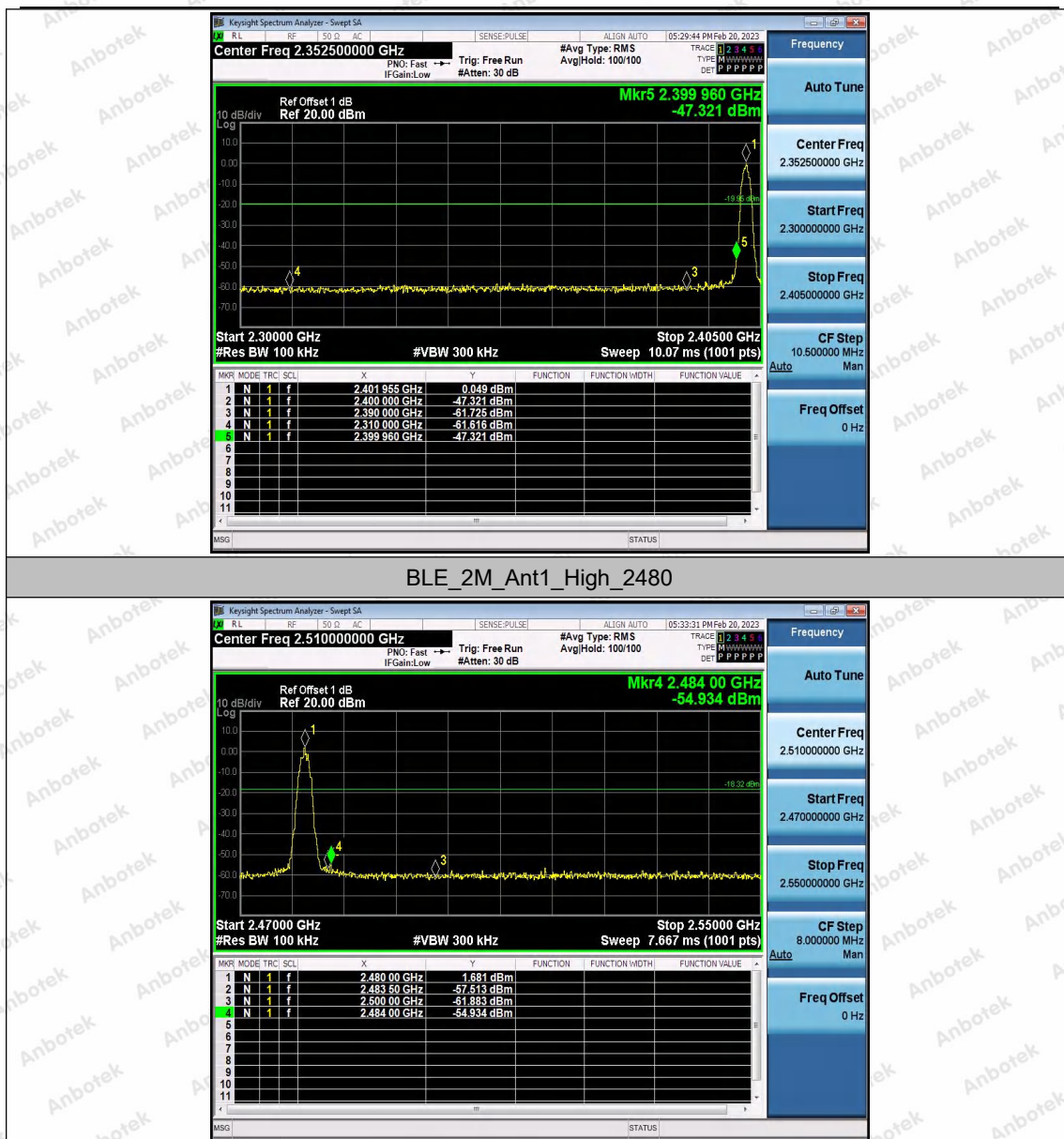
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.43	0.43	---	PASS
			30~1000	0.43	-68.64	≤-19.57	PASS
			1000~26500	0.43	-53.47	≤-19.57	PASS
		2440	Reference	-0.71	-0.71	---	PASS
			30~1000	-0.71	-69.43	≤-20.71	PASS
			1000~26500	-0.71	-53.46	≤-20.71	PASS
		2480	Reference	-0.62	-0.62	---	PASS
			30~1000	-0.62	-68.49	≤-20.62	PASS
			1000~26500	-0.62	-53.26	≤-20.62	PASS
BLE_2M	Ant1	2402	Reference	-1.59	-1.59	---	PASS
			30~1000	-1.59	-68.99	≤-21.59	PASS
			1000~26500	-1.59	-53.63	≤-21.59	PASS
		2440	Reference	-2.38	-2.38	---	PASS
			30~1000	-2.38	-68.67	≤-22.38	PASS
			1000~26500	-2.38	-53.1	≤-22.38	PASS
		2480	Reference	-2.07	-2.07	---	PASS
			30~1000	-2.07	-68.59	≤-22.07	PASS
			1000~26500	-2.07	-53.24	≤-22.07	PASS

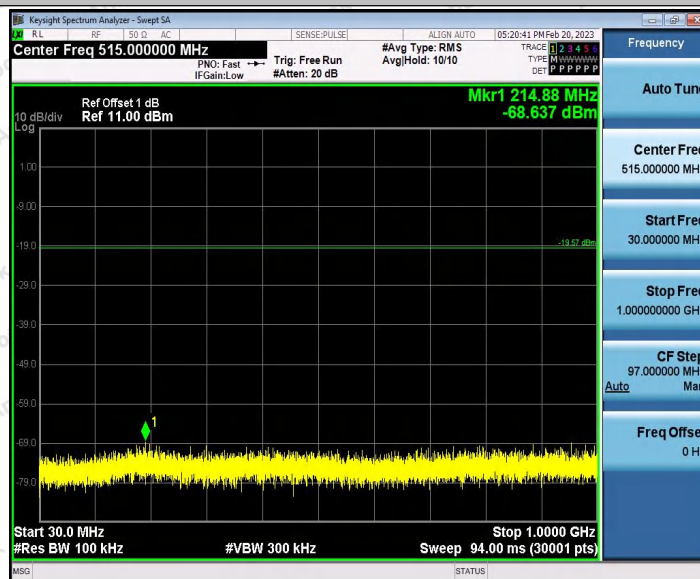


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

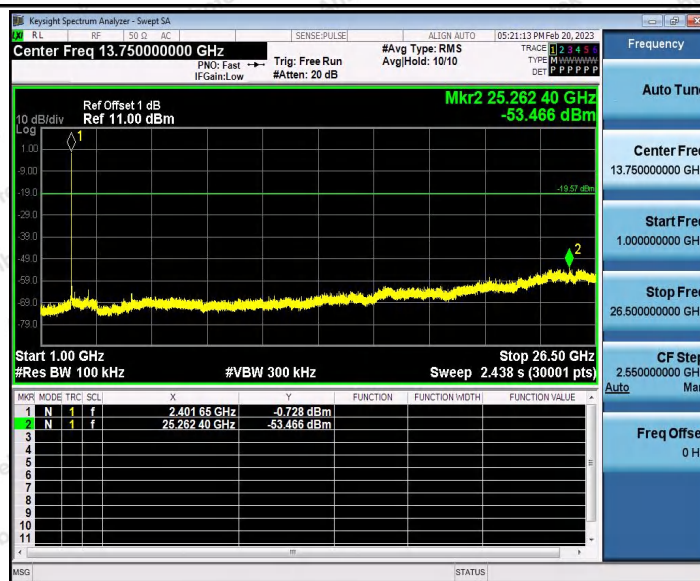
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

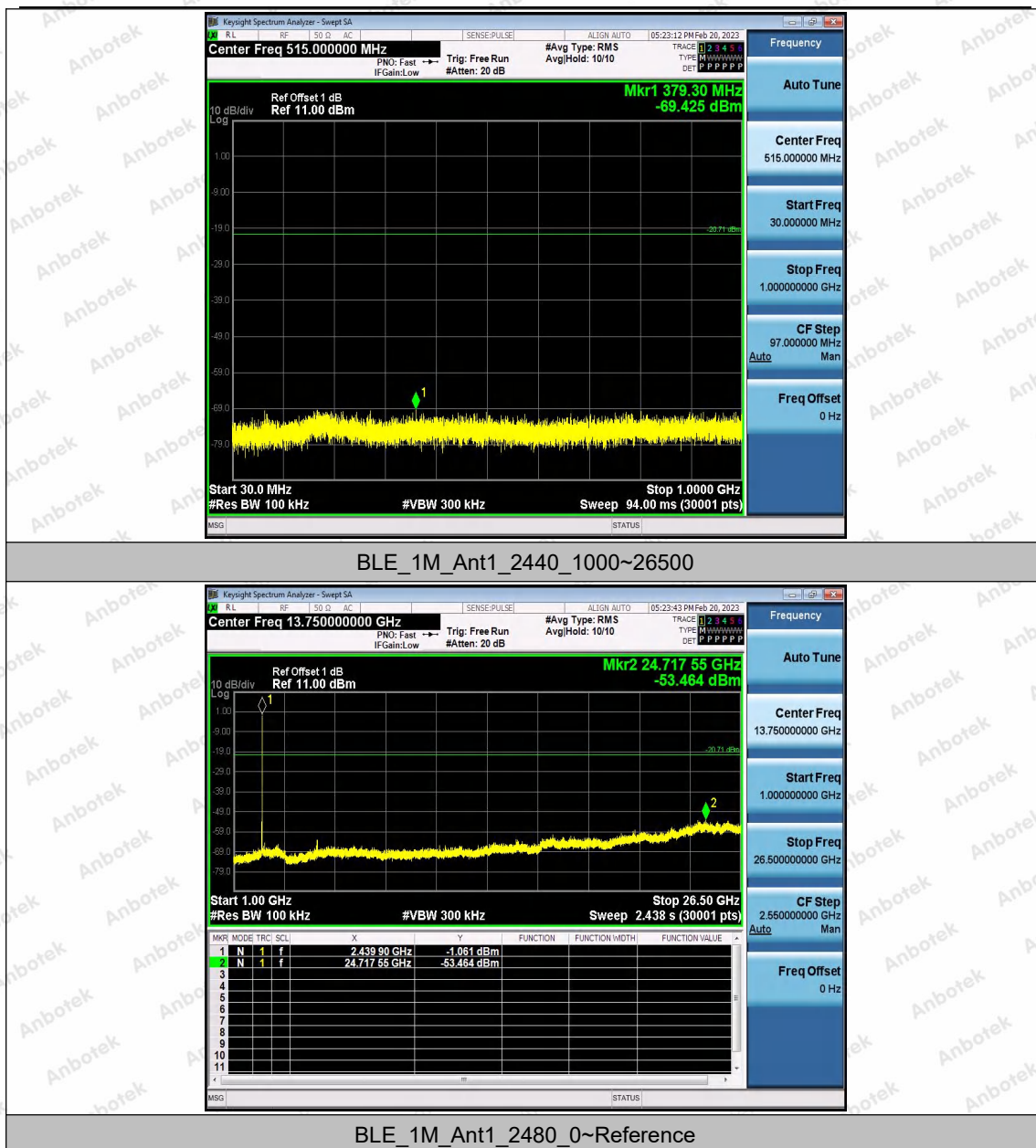
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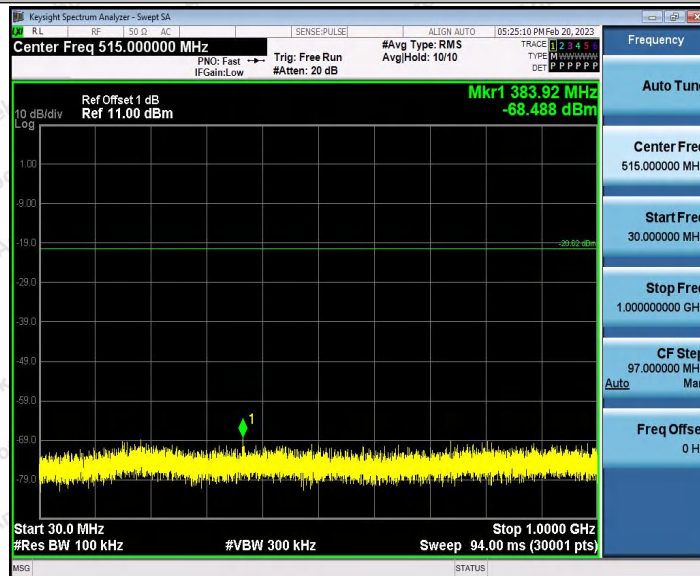


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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

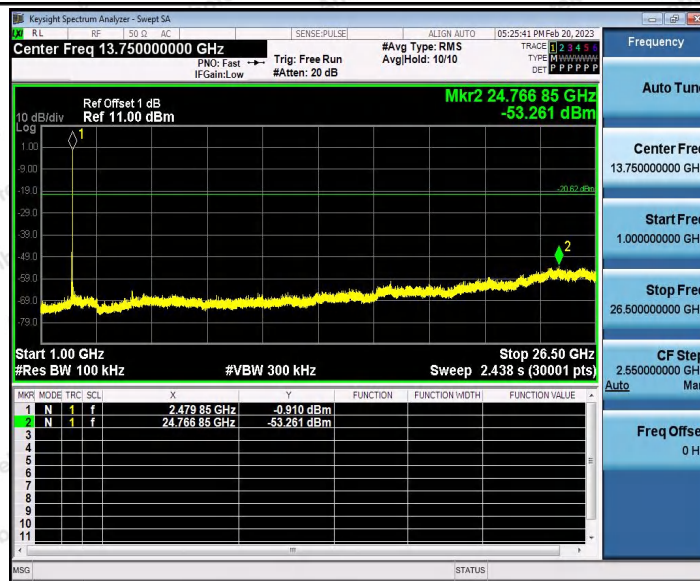
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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

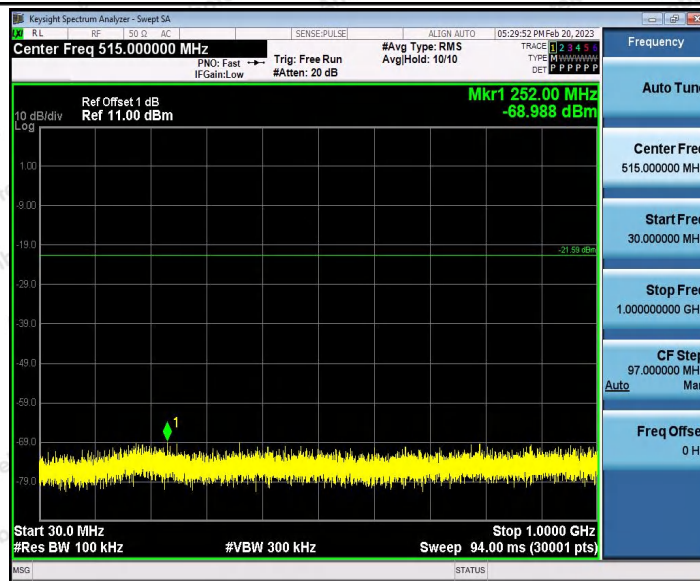
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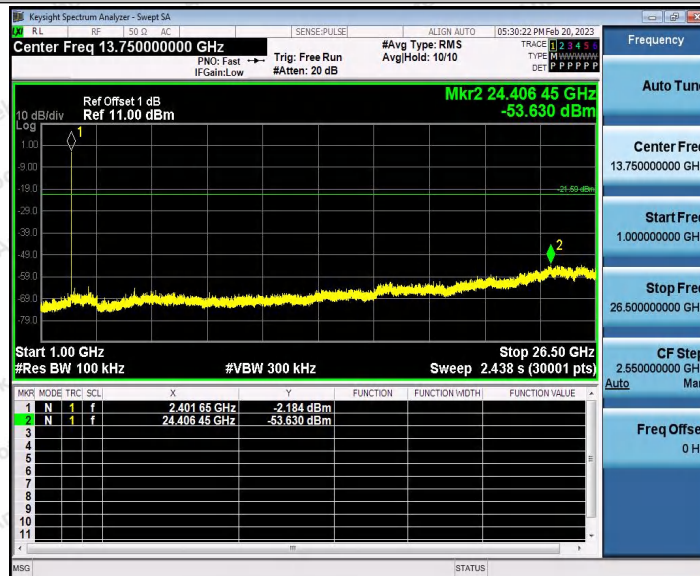


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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

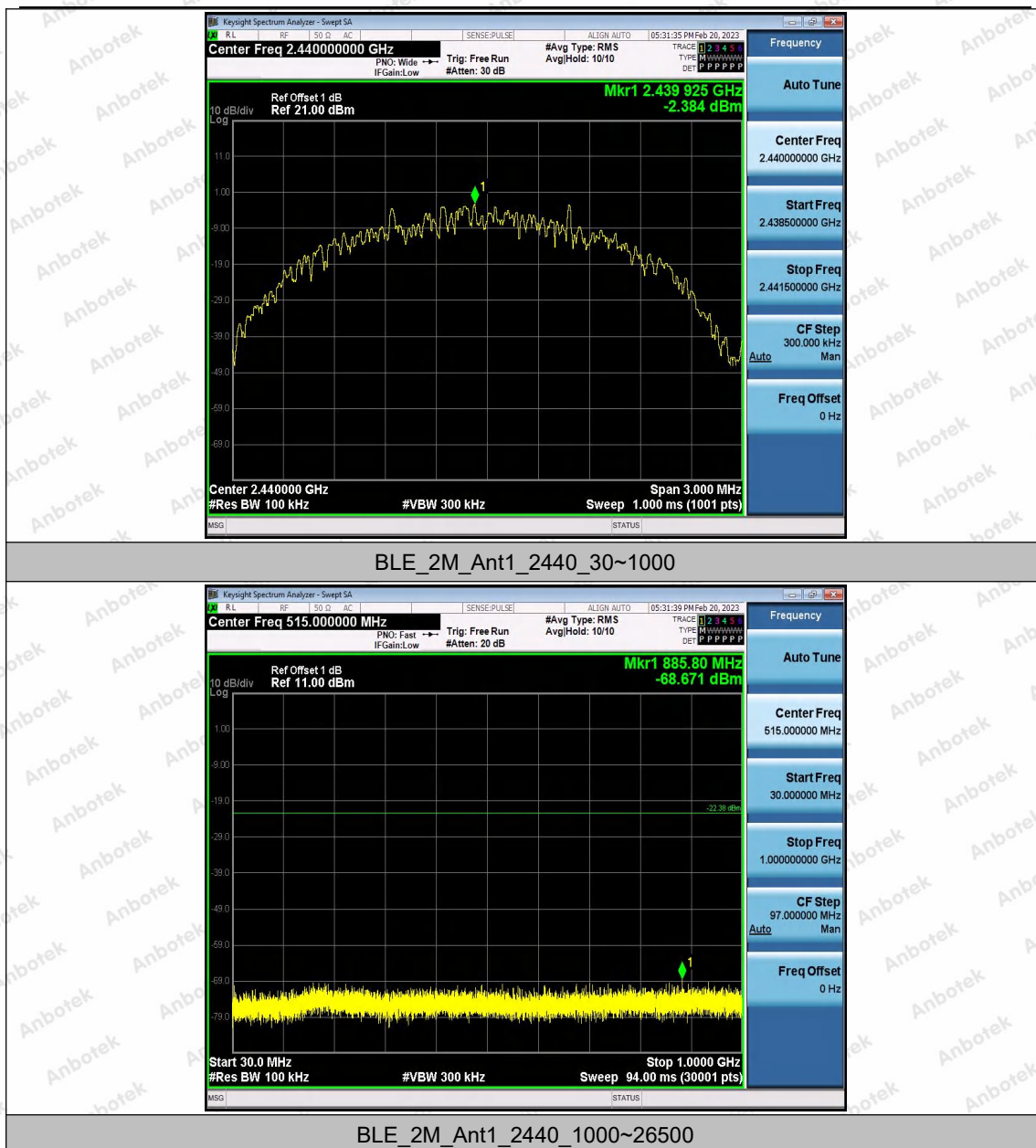
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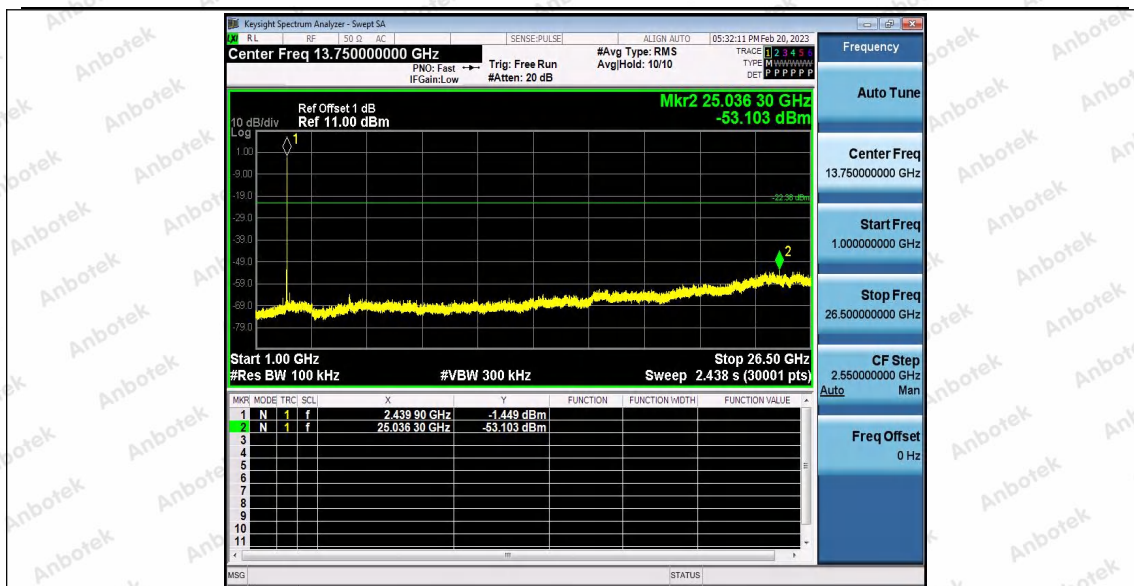
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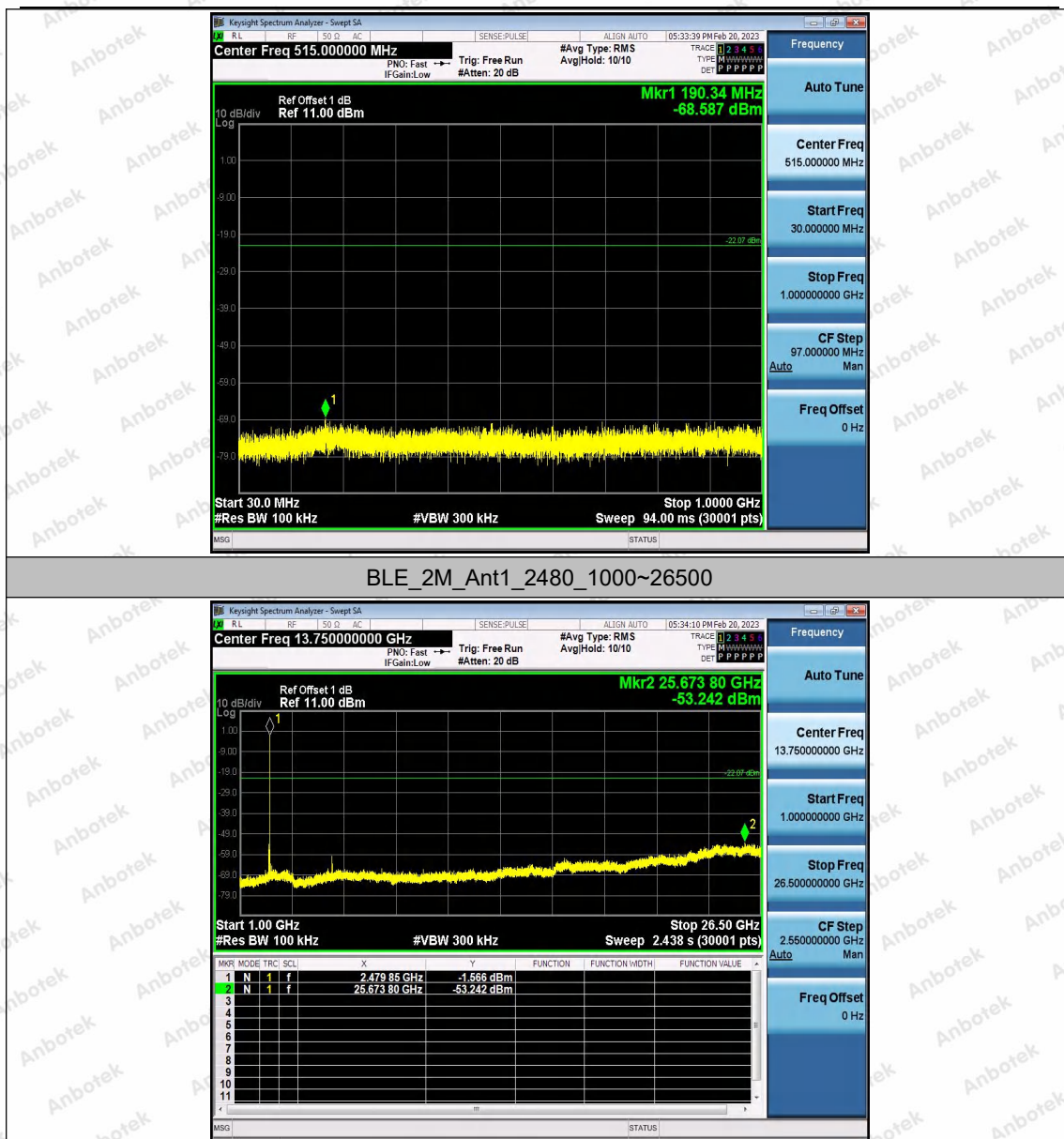


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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Appendix G: Duty Cycle

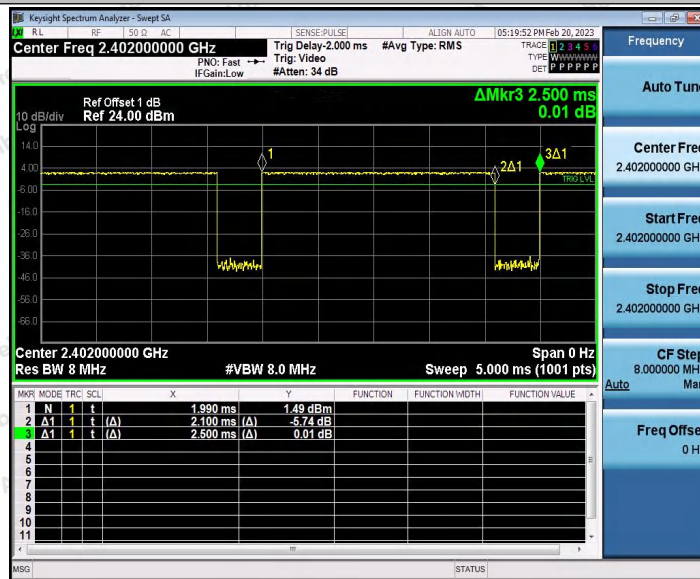
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.10	2.50	84.00	0.76
		2440	2.10	2.50	84.00	0.76
		2480	2.10	2.50	84.00	0.76
BLE_2M	Ant1	2402	1.06	1.88	56.38	2.49
		2440	1.06	1.88	56.38	2.49
		2480	1.06	1.88	56.38	2.49

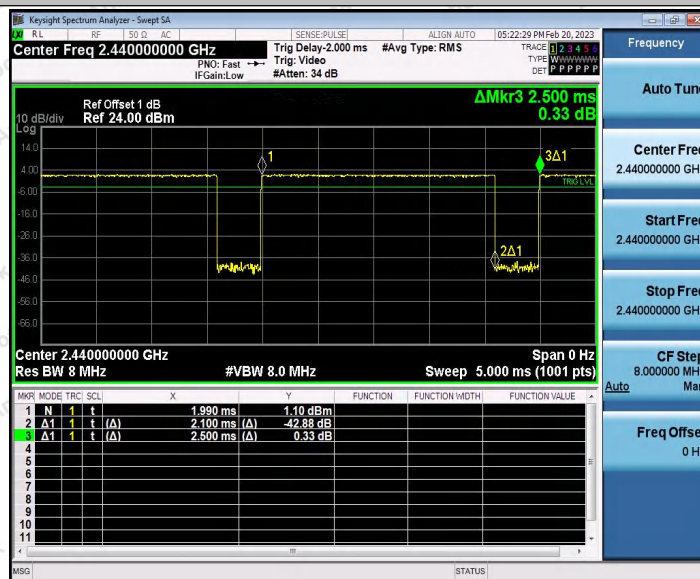


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

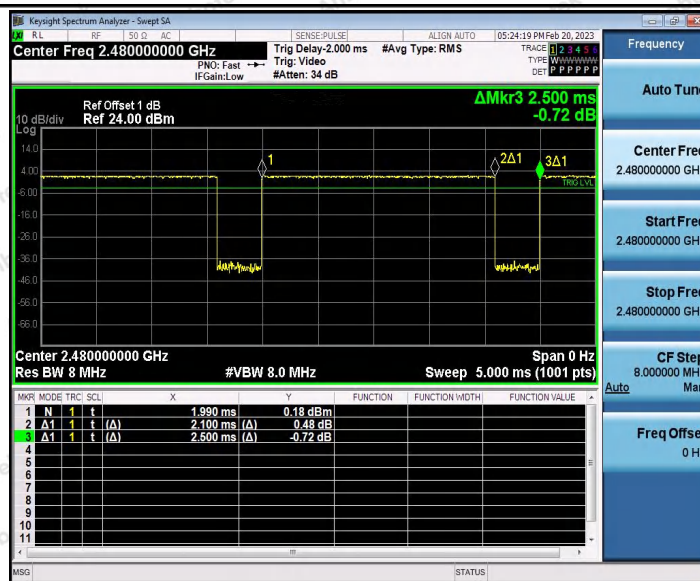
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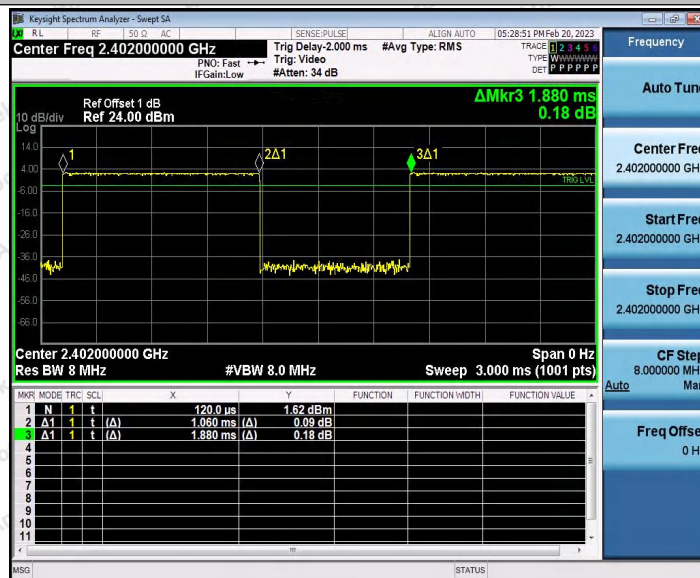


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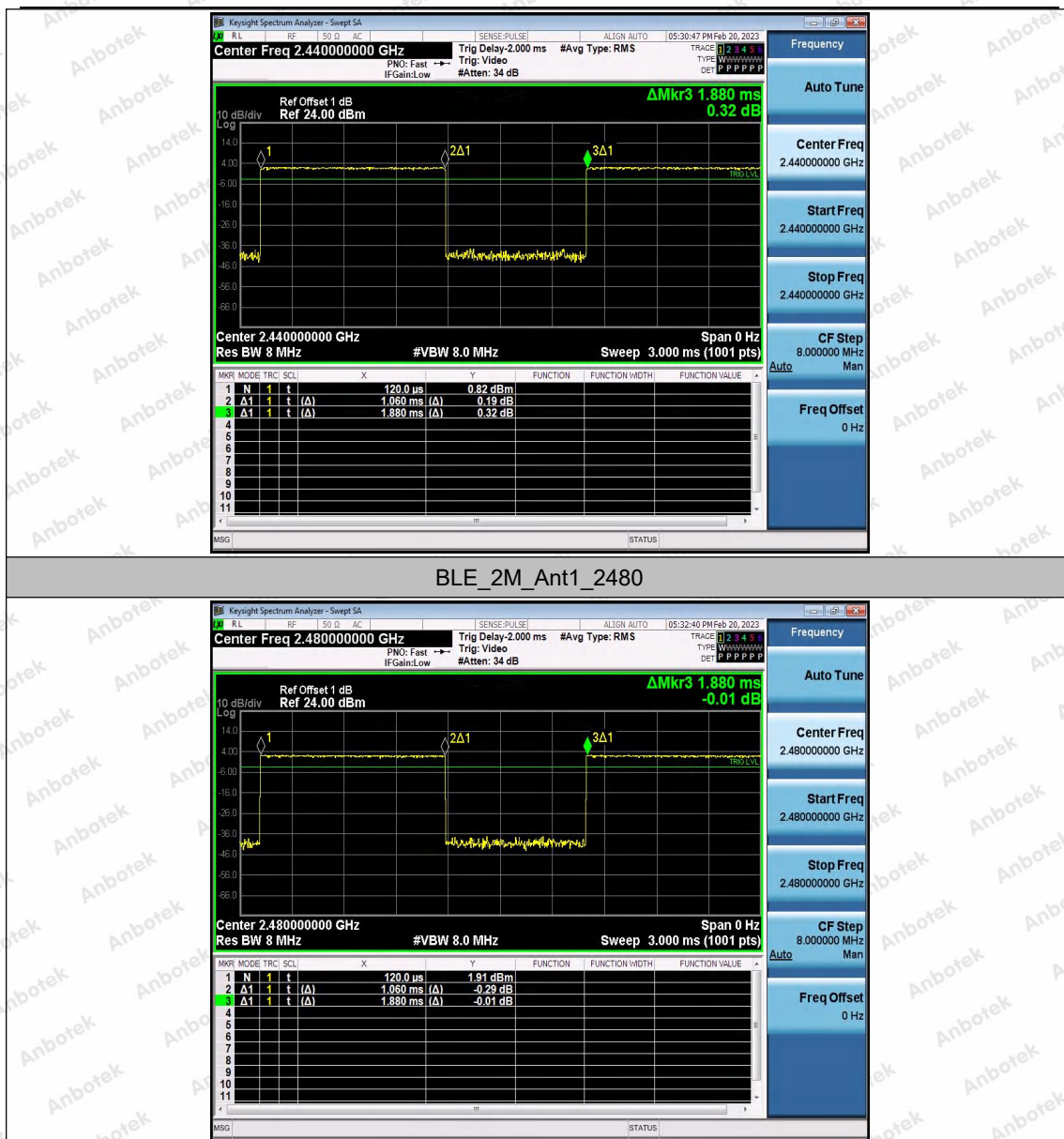


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---End---

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