

Appendix Test Data

Report No.:	18220WC20232702	Test Sample No.:	1-2-2
Start Test Date:	2022.9.29	Finish Test Date:	2022.10.9
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3°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	0.664	2401.624	2402.288	0.5	PASS
		2440	0.644	2439.628	2440.272	0.5	PASS
		2480	0.628	2479.640	2480.268	0.5	PASS
BLE_2M	Ant1	2402	1.140	2401.404	2402.544	0.5	PASS
		2440	1.104	2439.428	2440.532	0.5	PASS
		2480	1.144	2479.400	2480.544	0.5	PASS



Test Graphs



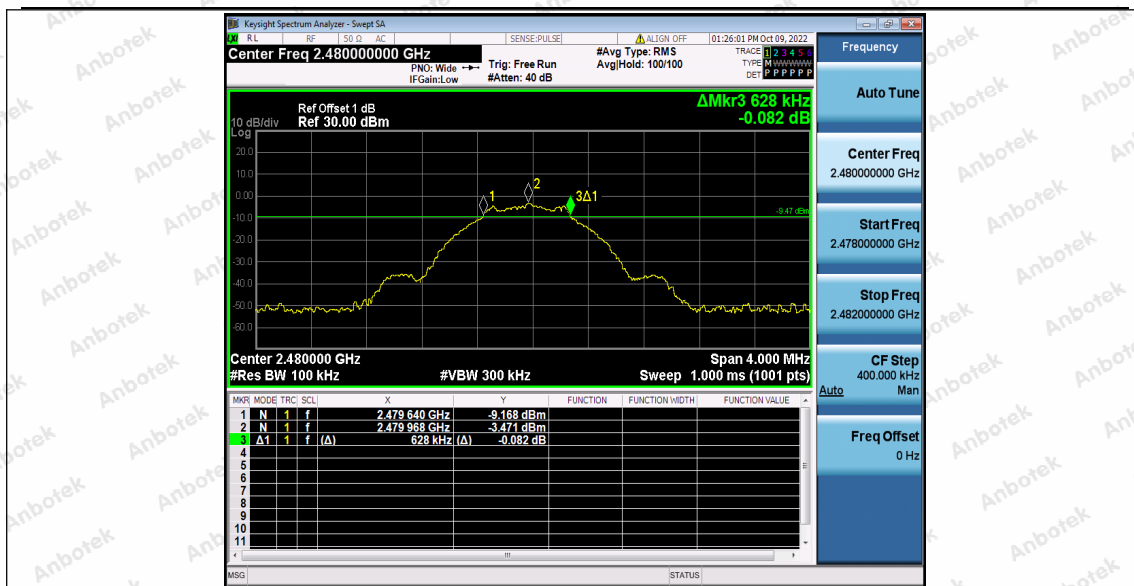
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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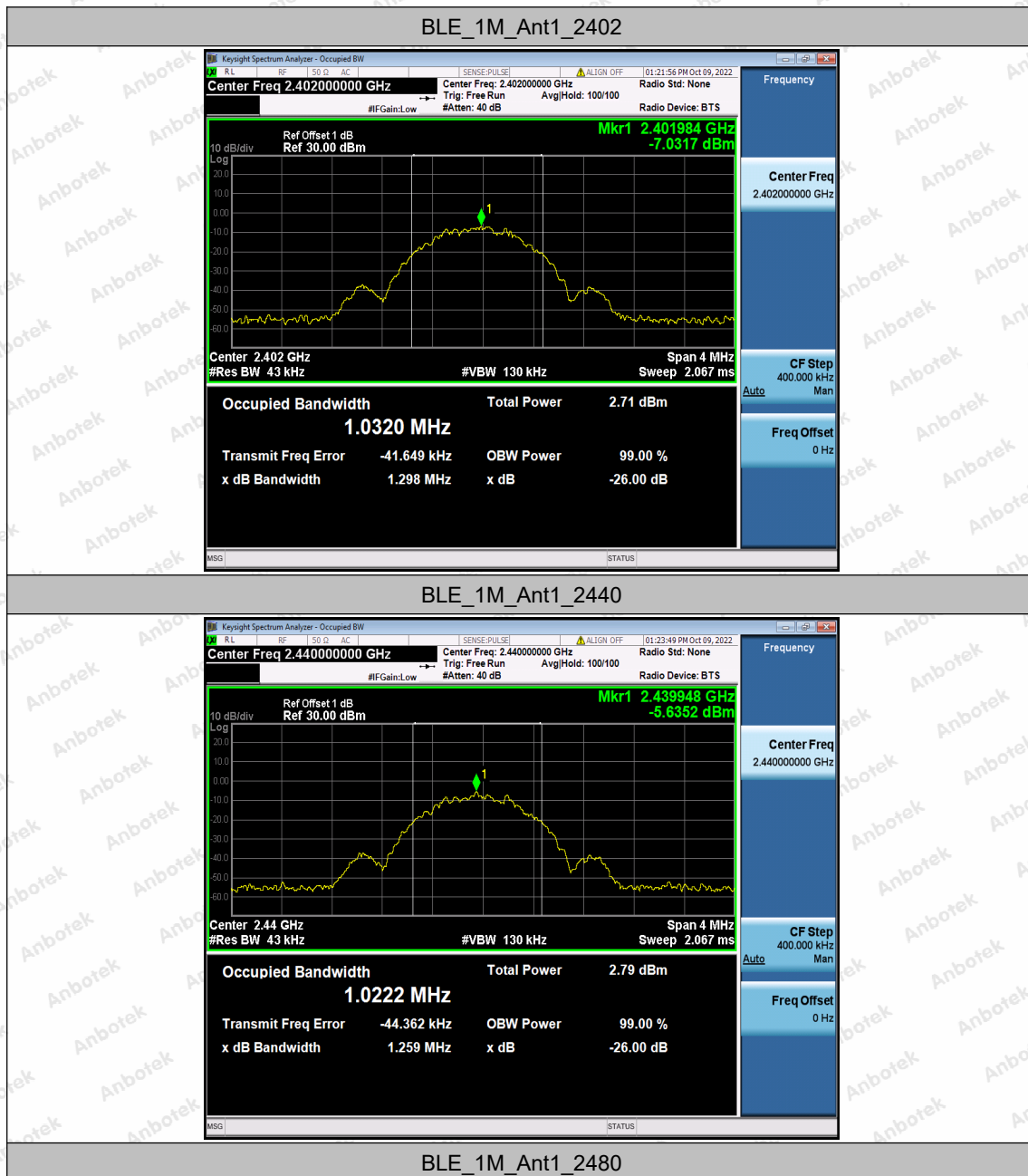
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0320	2401.4424	2402.4744
		2440	1.0222	2439.4445	2440.4667
		2480	1.0243	2479.4425	2480.4668
BLE_2M	Ant1	2402	2.0388	2400.9527	2402.9915
		2440	2.0514	2438.9445	2440.9959
		2480	2.0444	2478.9481	2480.9925



Test Graphs



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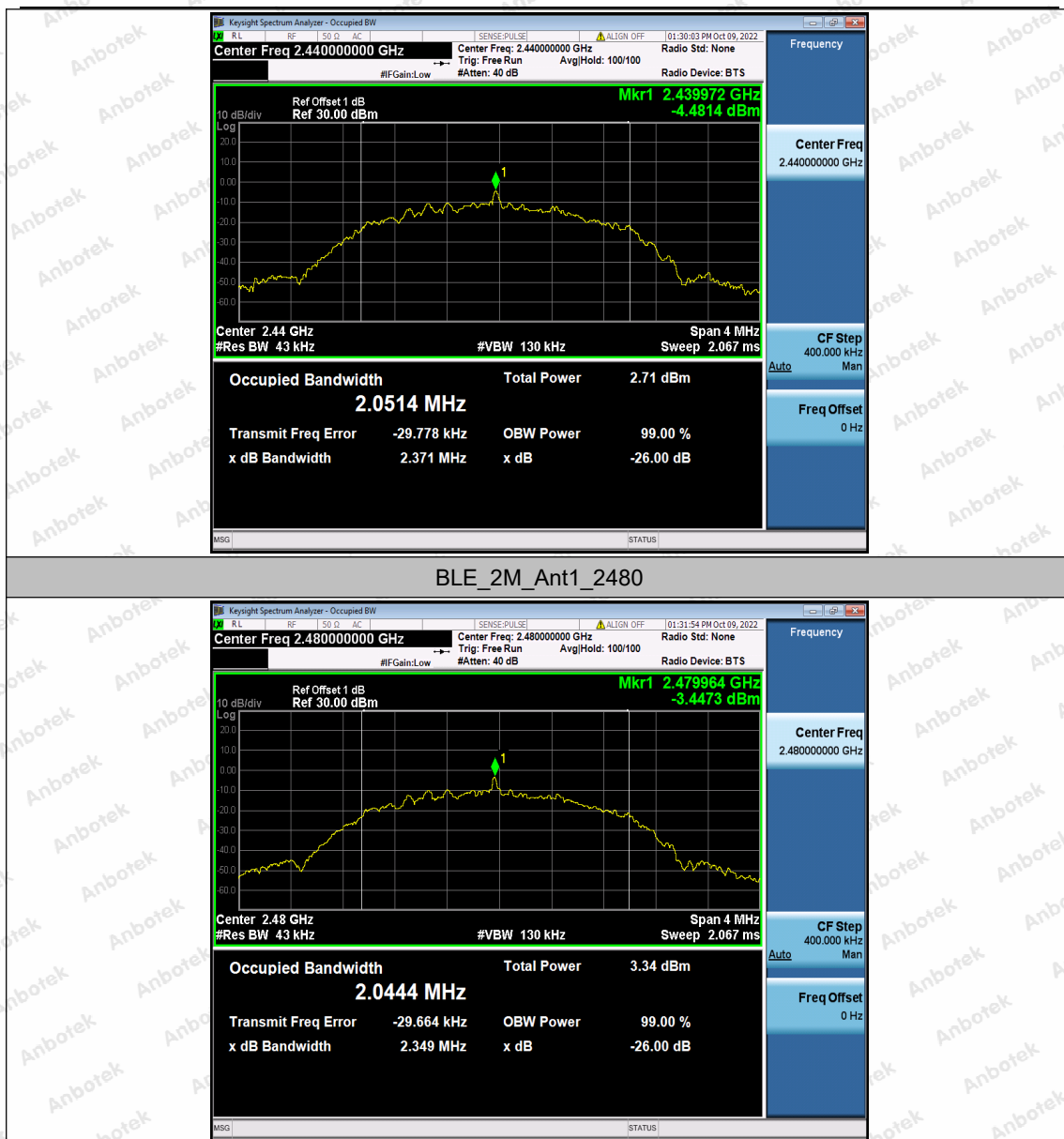


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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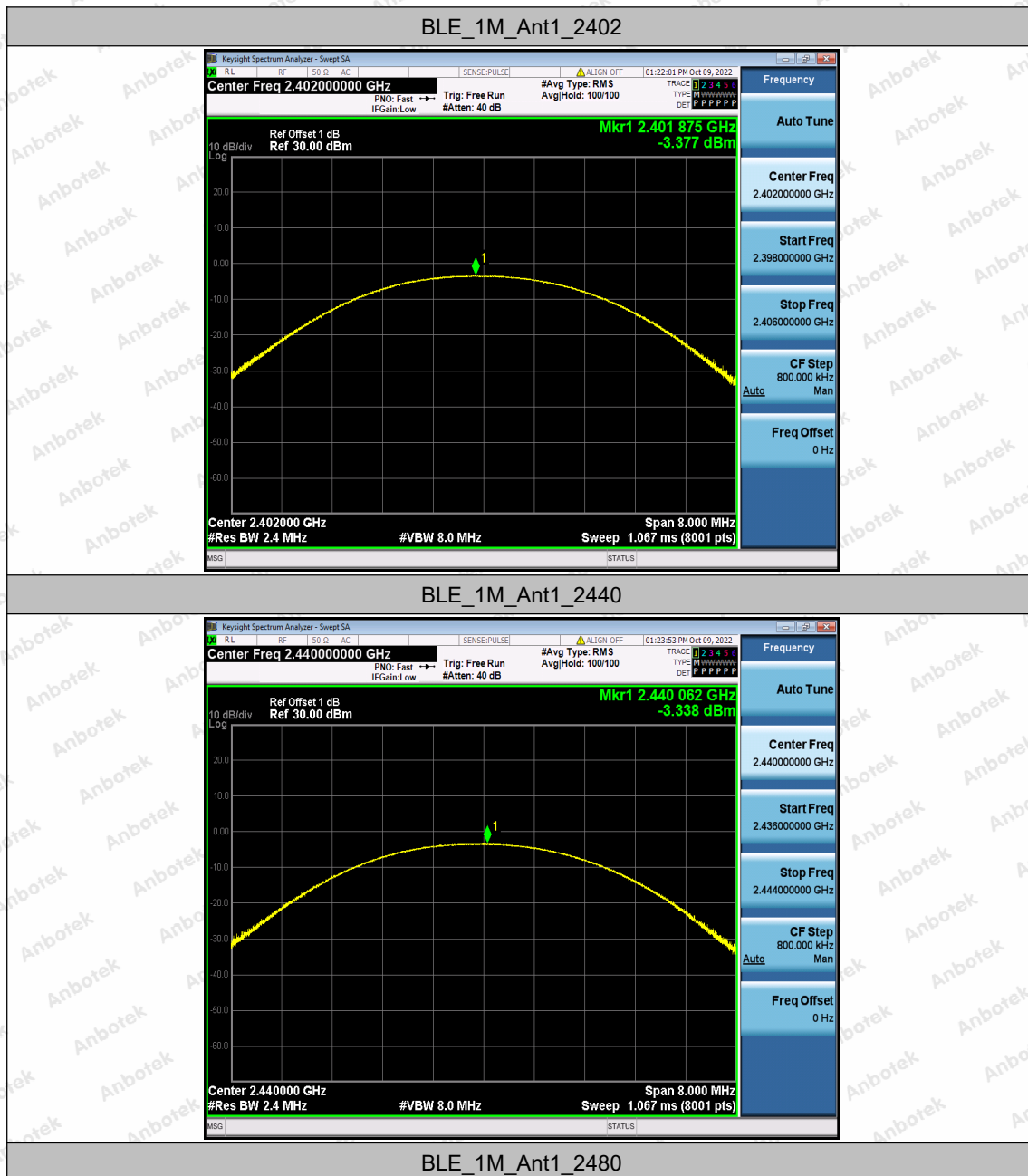
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.38	≤30	PASS
		2440	-3.34	≤30	PASS
		2480	-2.74	≤30	PASS
BLE_2M	Ant1	2402	-3.39	≤30	PASS
		2440	-3.07	≤30	PASS
		2480	-2.41	≤30	PASS



Test Graphs Peak



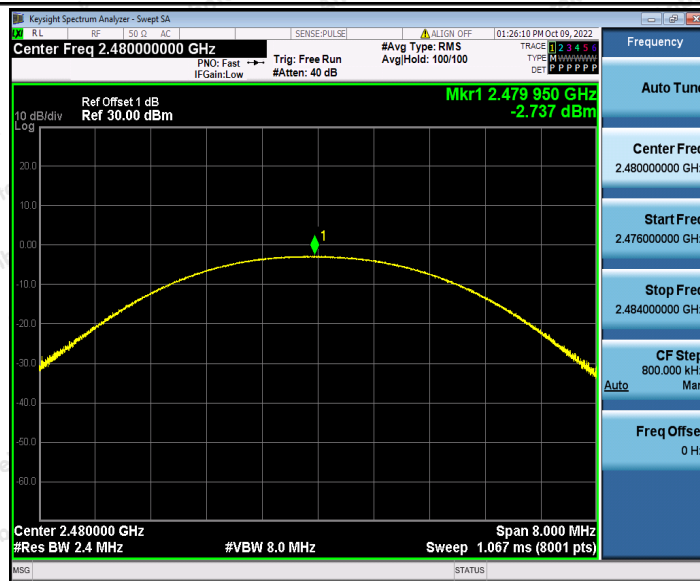
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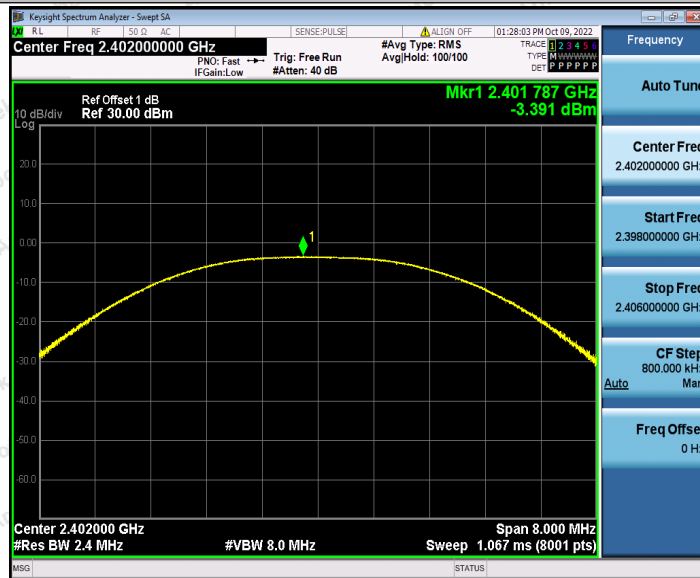


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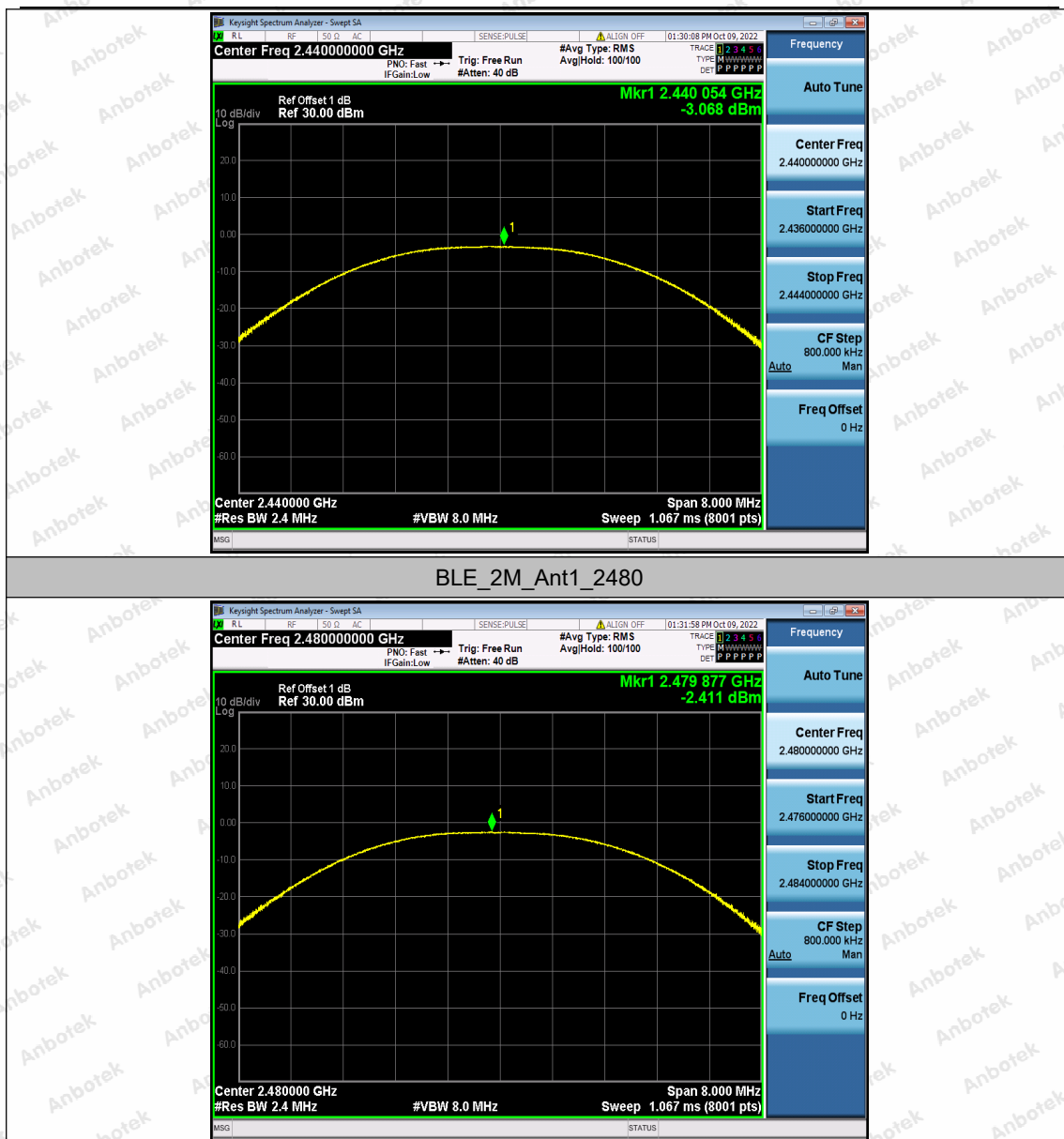


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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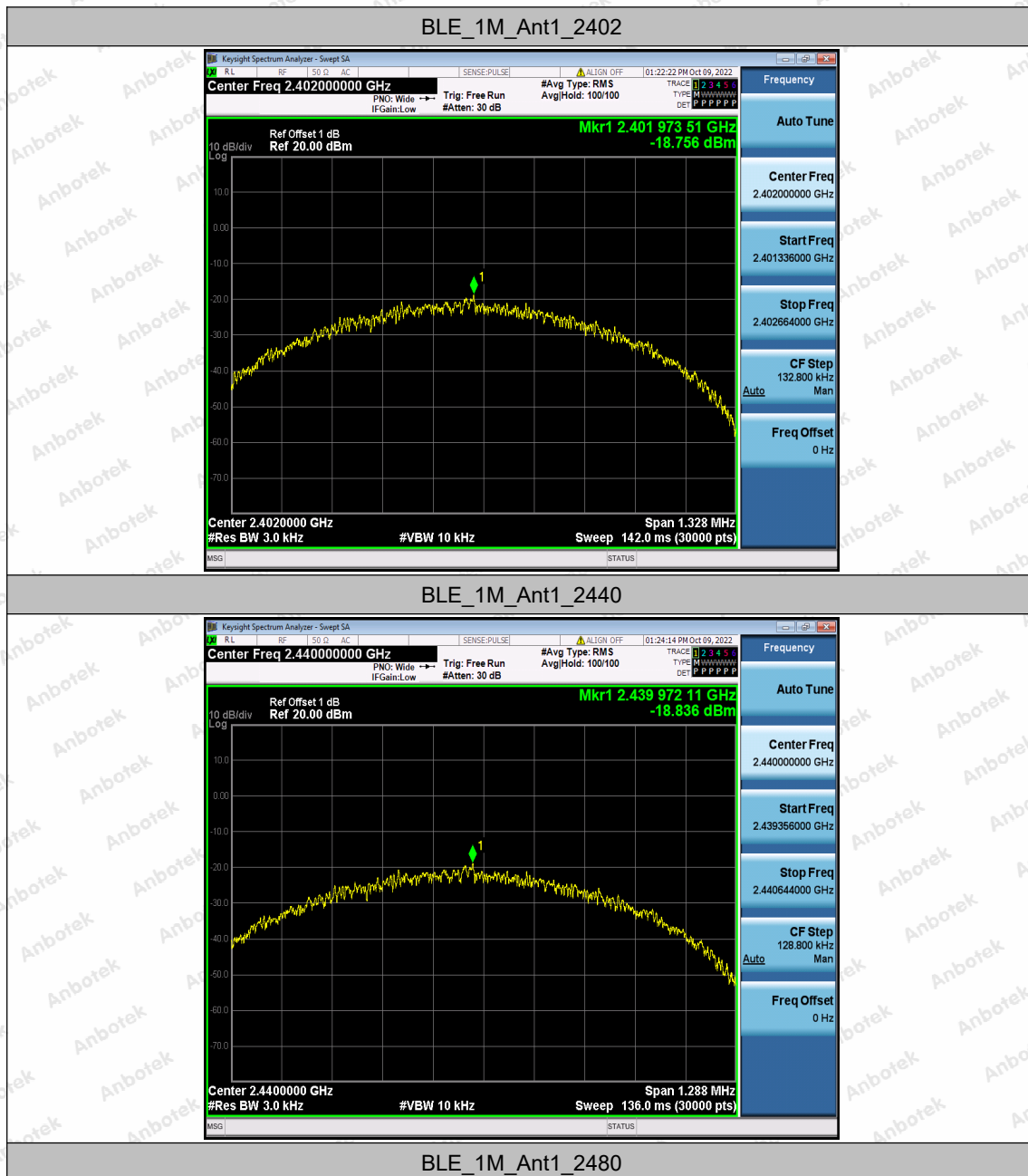
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.76	≤8.00	PASS
		2440	-18.84	≤8.00	PASS
		2480	-18.24	≤8.00	PASS
BLE_2M	Ant1	2402	-20.55	≤8.00	PASS
		2440	-20.32	≤8.00	PASS
		2480	-19.55	≤8.00	PASS



Test Graphs



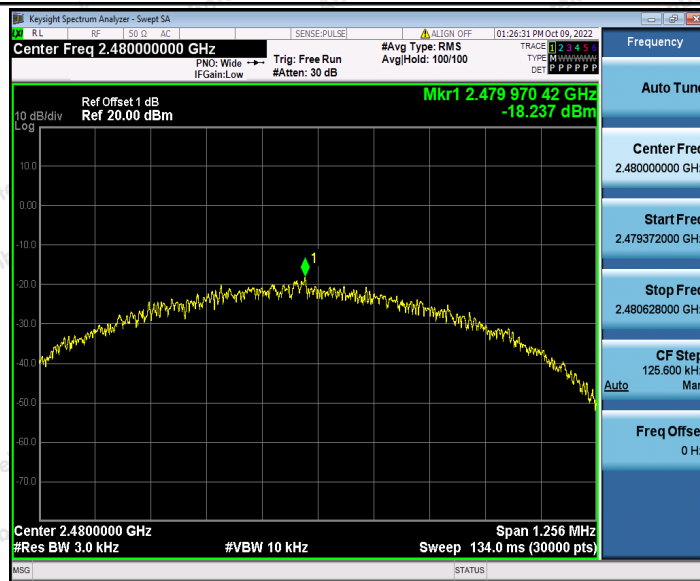
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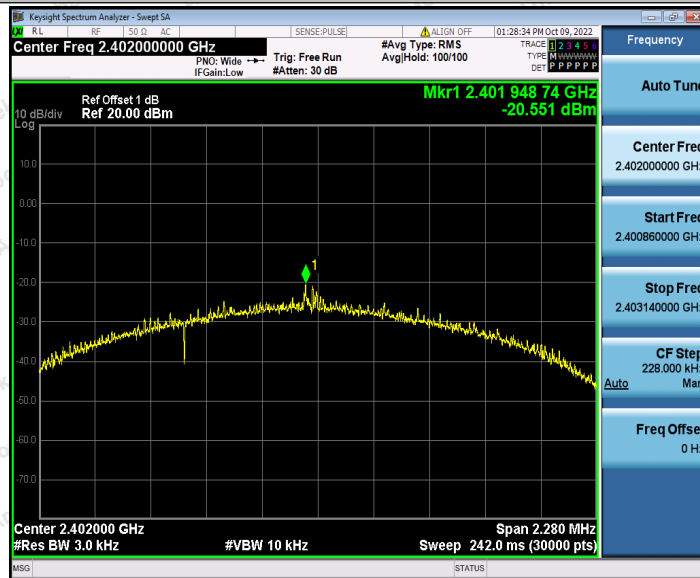


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

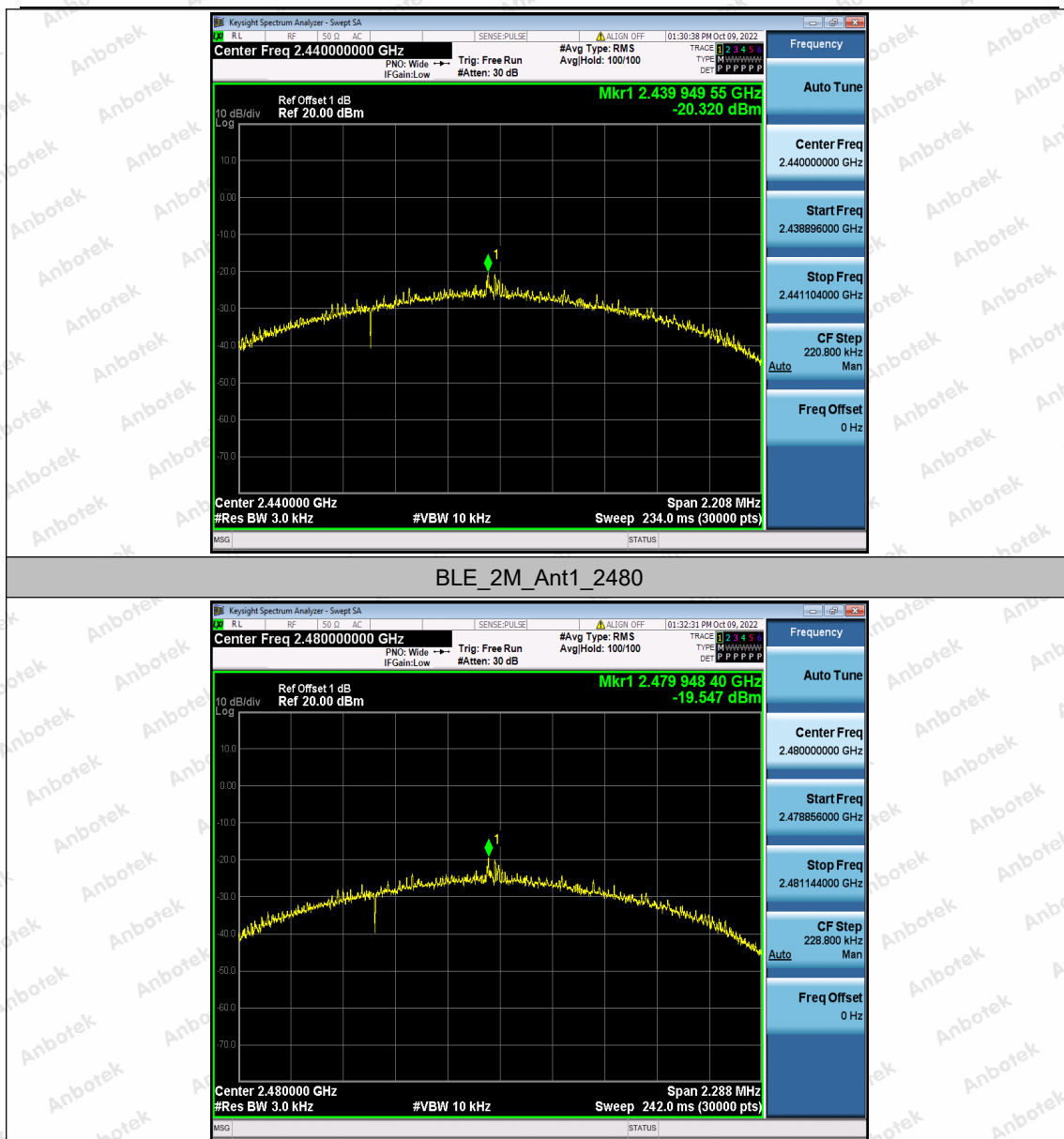
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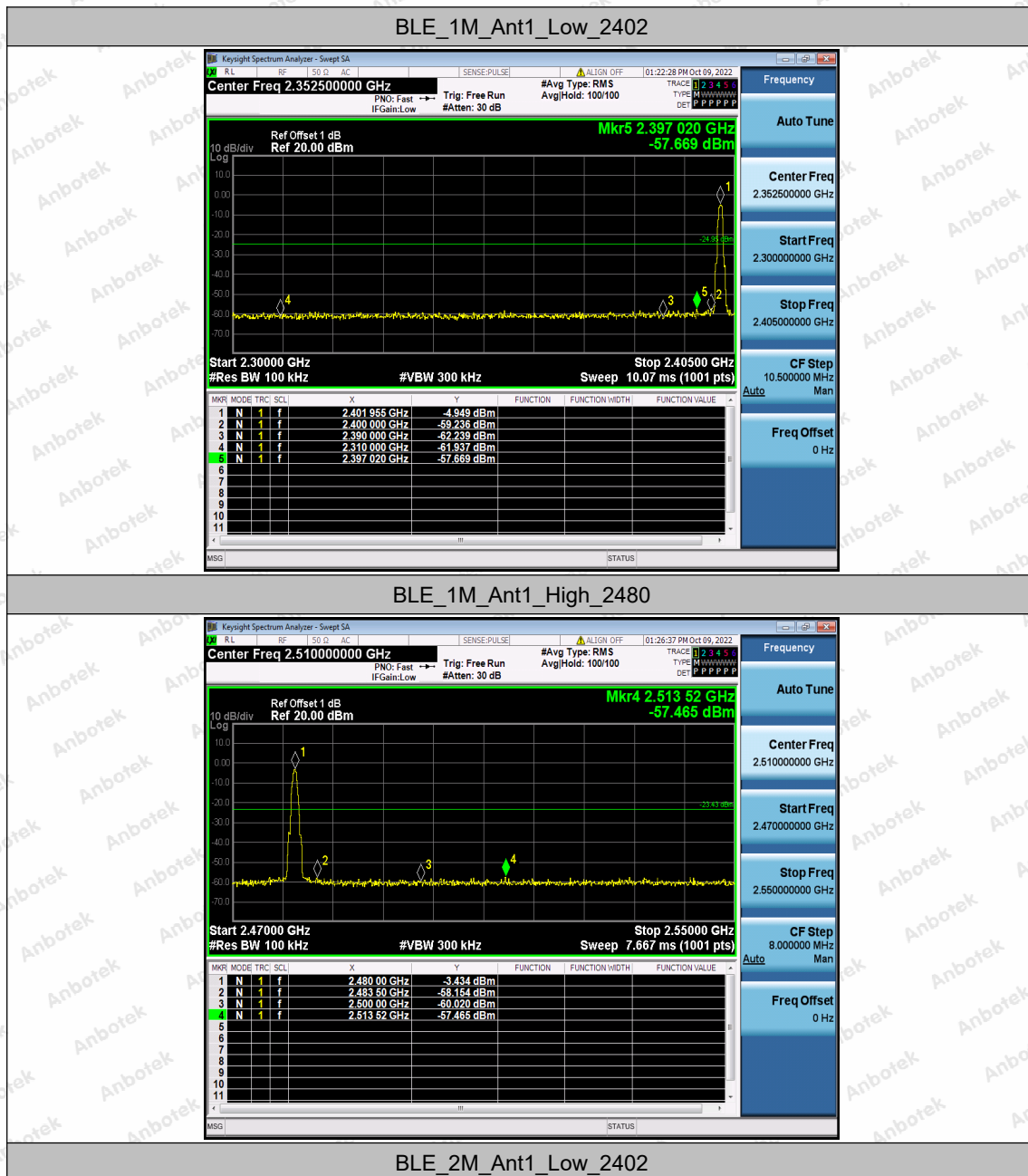
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.95	-57.67	≤-24.95	PASS
		High	2480	-3.43	-57.47	≤-23.43	PASS
BLE_2M	Ant1	Low	2402	-6.28	-51.76	≤-26.28	PASS
		High	2480	-2.35	-57.7	≤-22.35	PASS



Test Graphs



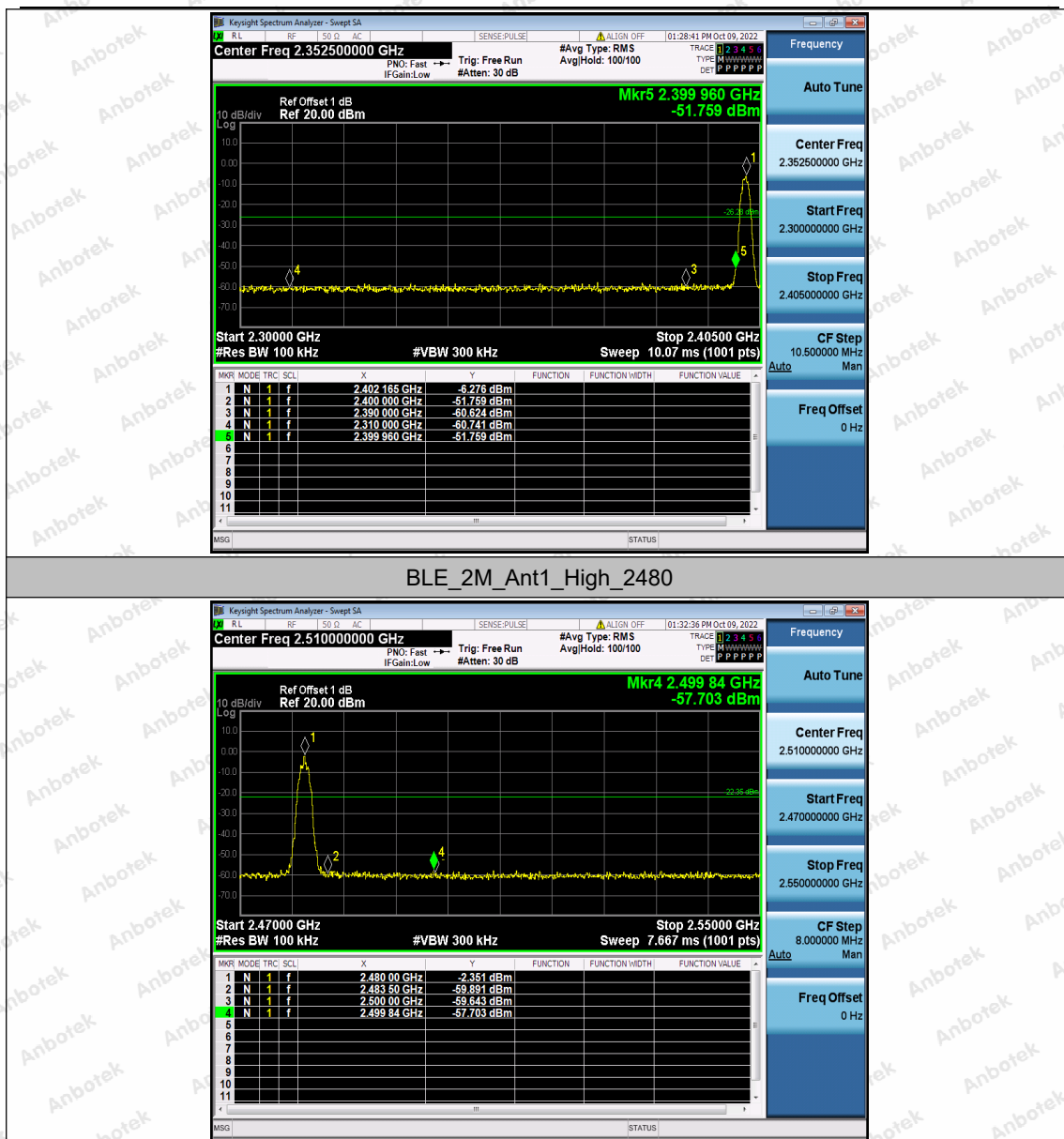
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-6.11	-6.11	---	PASS
			30~1000	-6.11	-69.53	≤-26.11	PASS
			1000~26500	-6.11	-53.75	≤-26.11	PASS
		2440	Reference	-5.64	-5.64	---	PASS
			30~1000	-5.64	-68.83	≤-25.64	PASS
			1000~26500	-5.64	-53.32	≤-25.64	PASS
		2480	Reference	-4.13	-4.13	---	PASS
			30~1000	-4.13	-68.04	≤-24.13	PASS
			1000~26500	-4.13	-53.23	≤-24.13	PASS
BLE_2M	Ant1	2402	Reference	-5.10	-5.10	---	PASS
			30~1000	-5.10	-68.58	≤-25.1	PASS
			1000~26500	-5.10	-43.57	≤-25.1	PASS
		2440	Reference	-6.57	-6.57	---	PASS
			30~1000	-6.57	-68.86	≤-26.57	PASS
			1000~26500	-6.57	-53.65	≤-26.57	PASS
		2480	Reference	-6.19	-6.19	---	PASS
			30~1000	-6.19	-68.63	≤-26.19	PASS
			1000~26500	-6.19	-53.18	≤-26.19	PASS

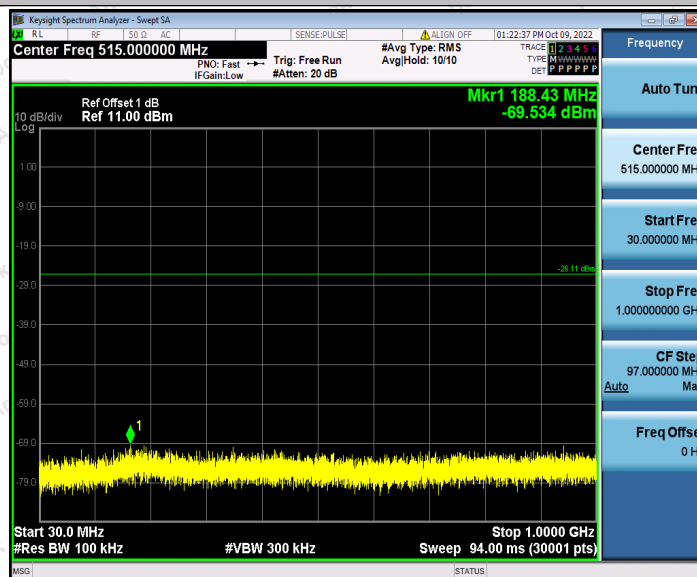


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

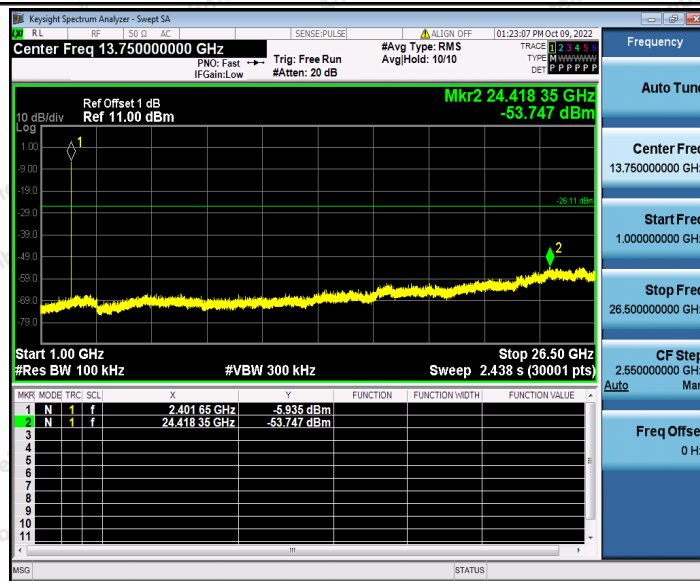
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

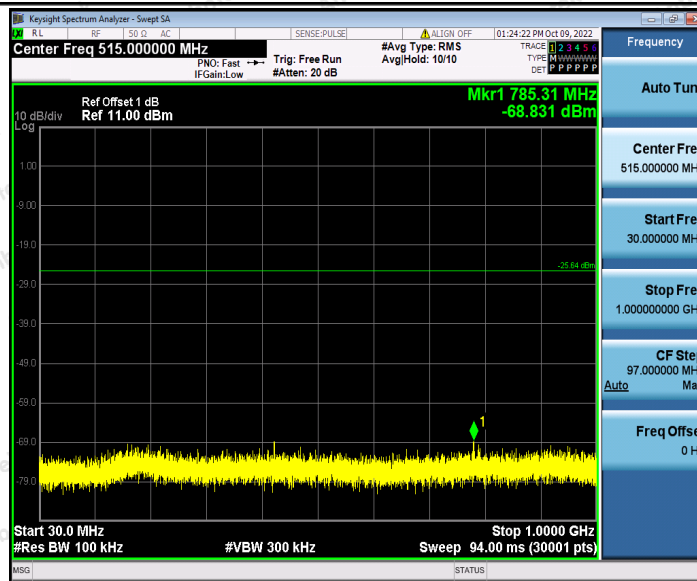
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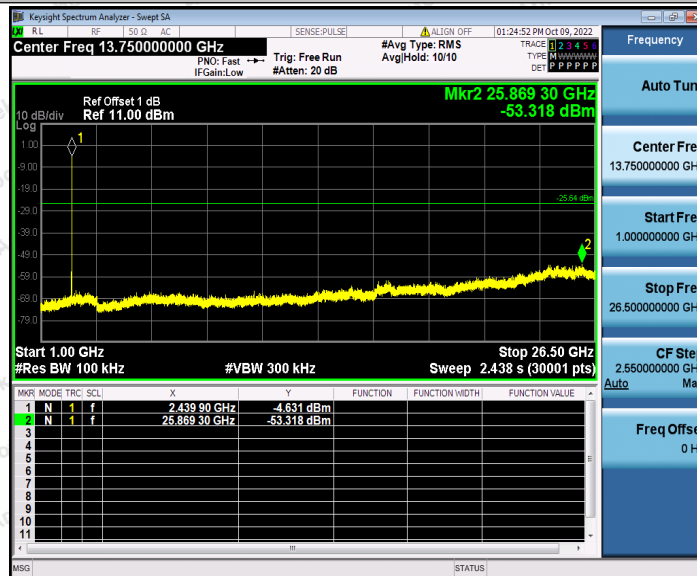


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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

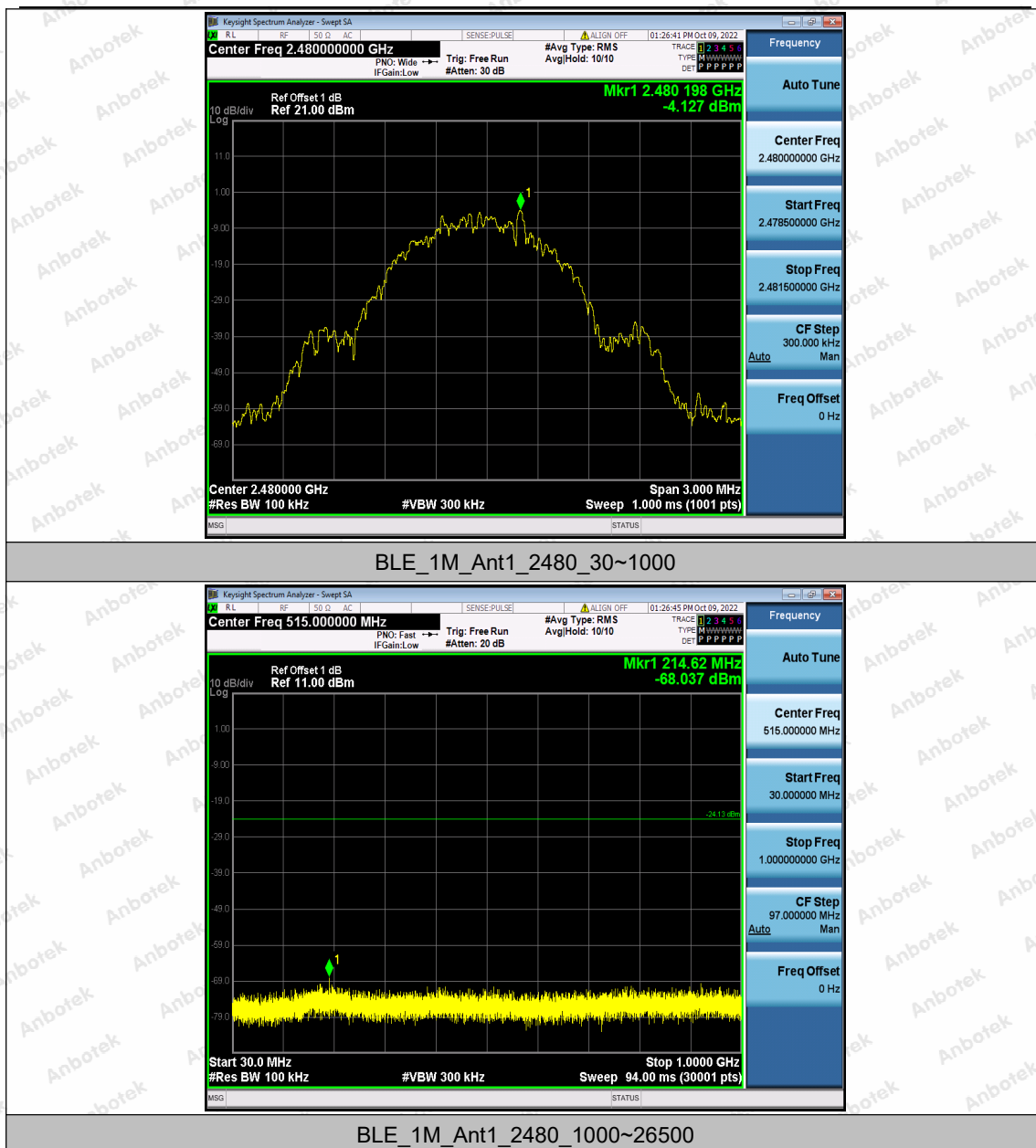
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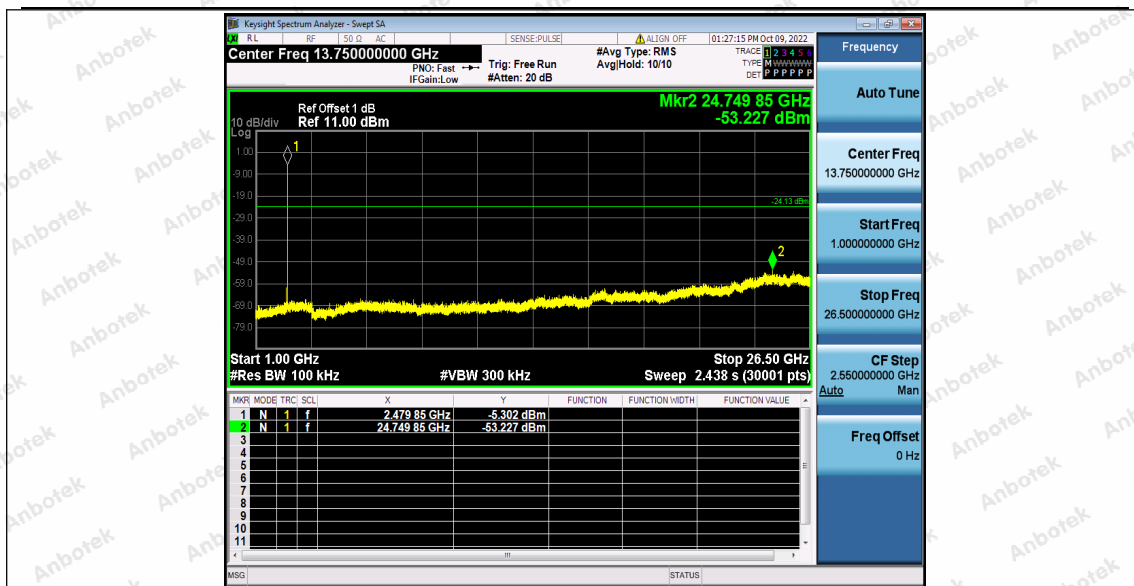
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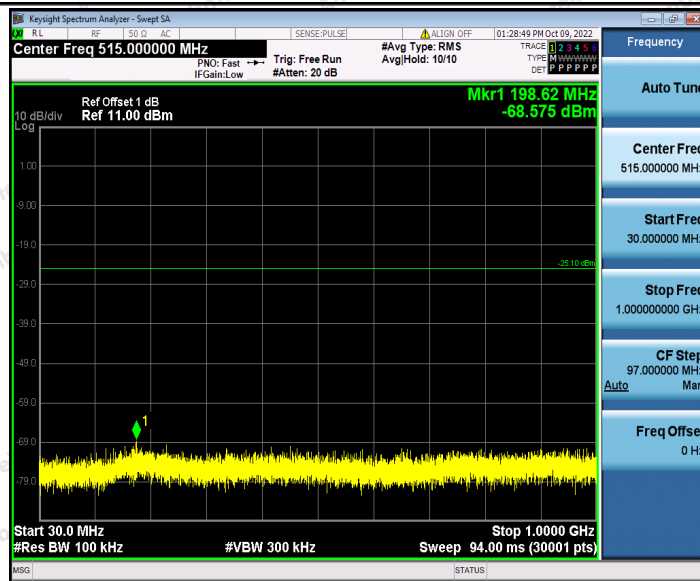


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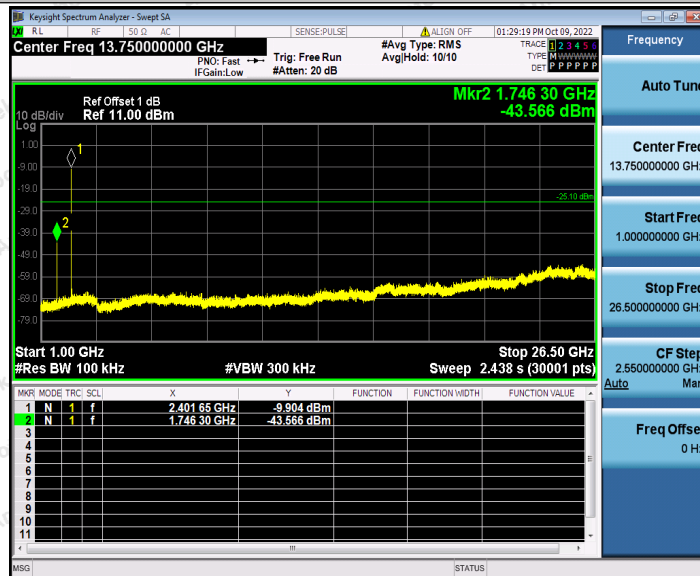


BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

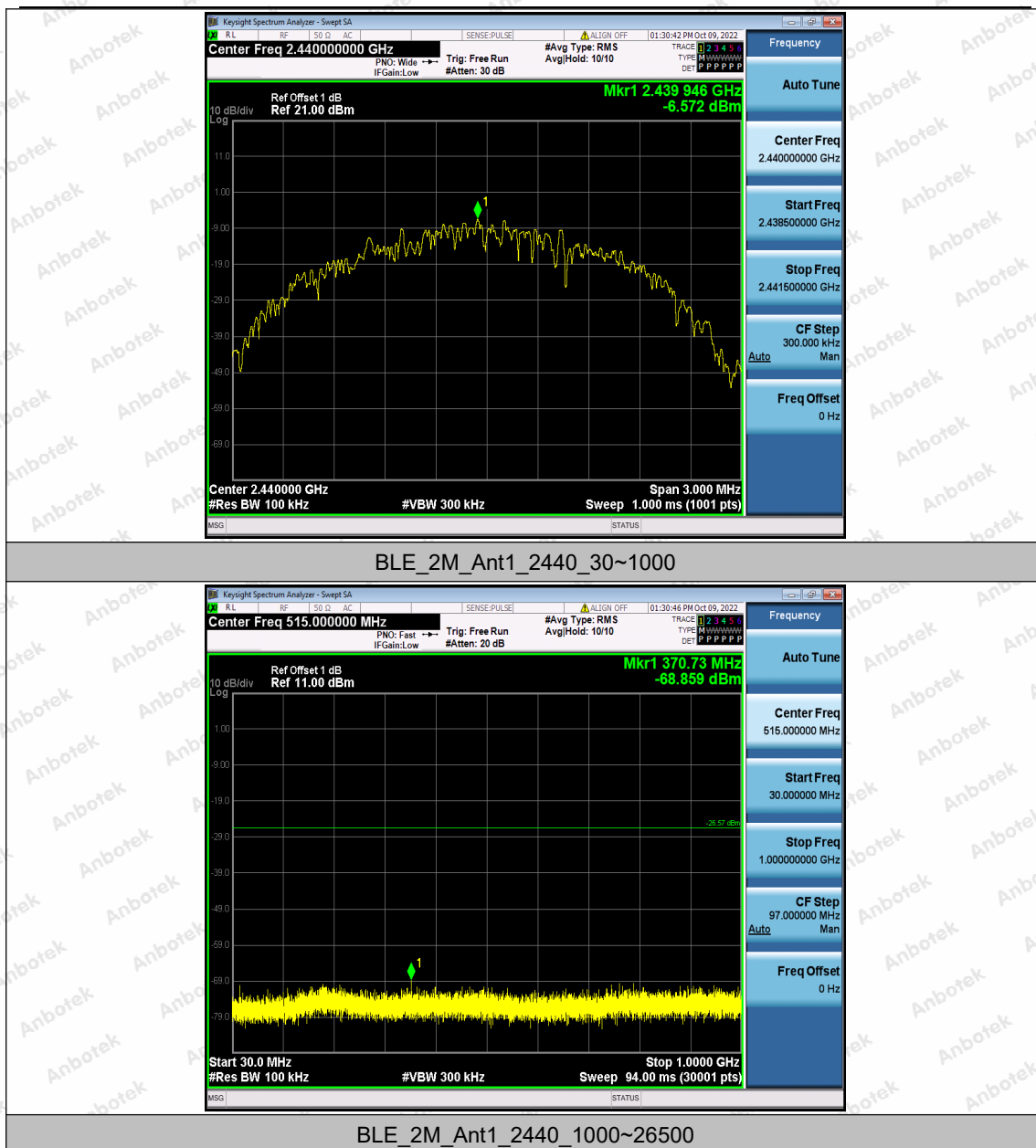
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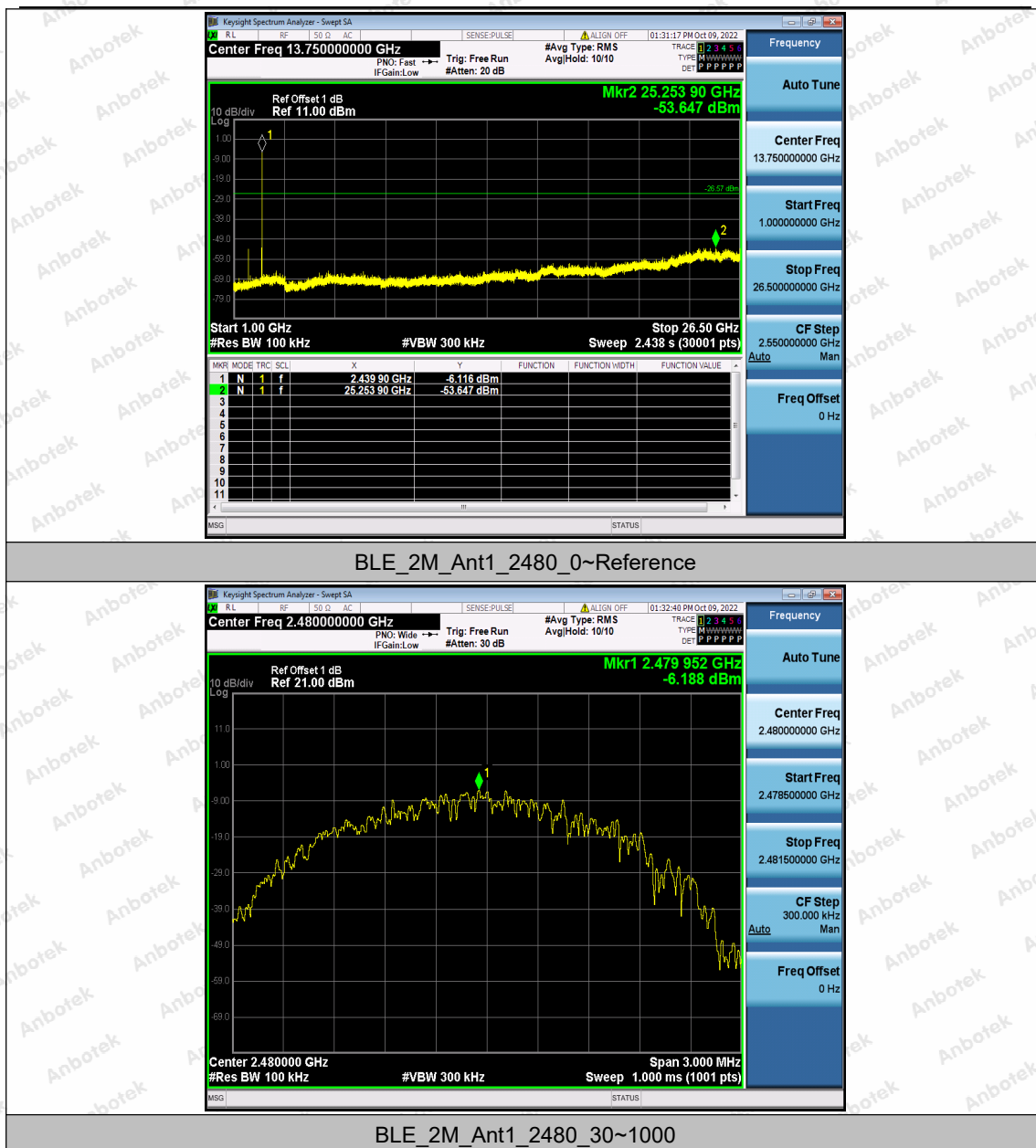
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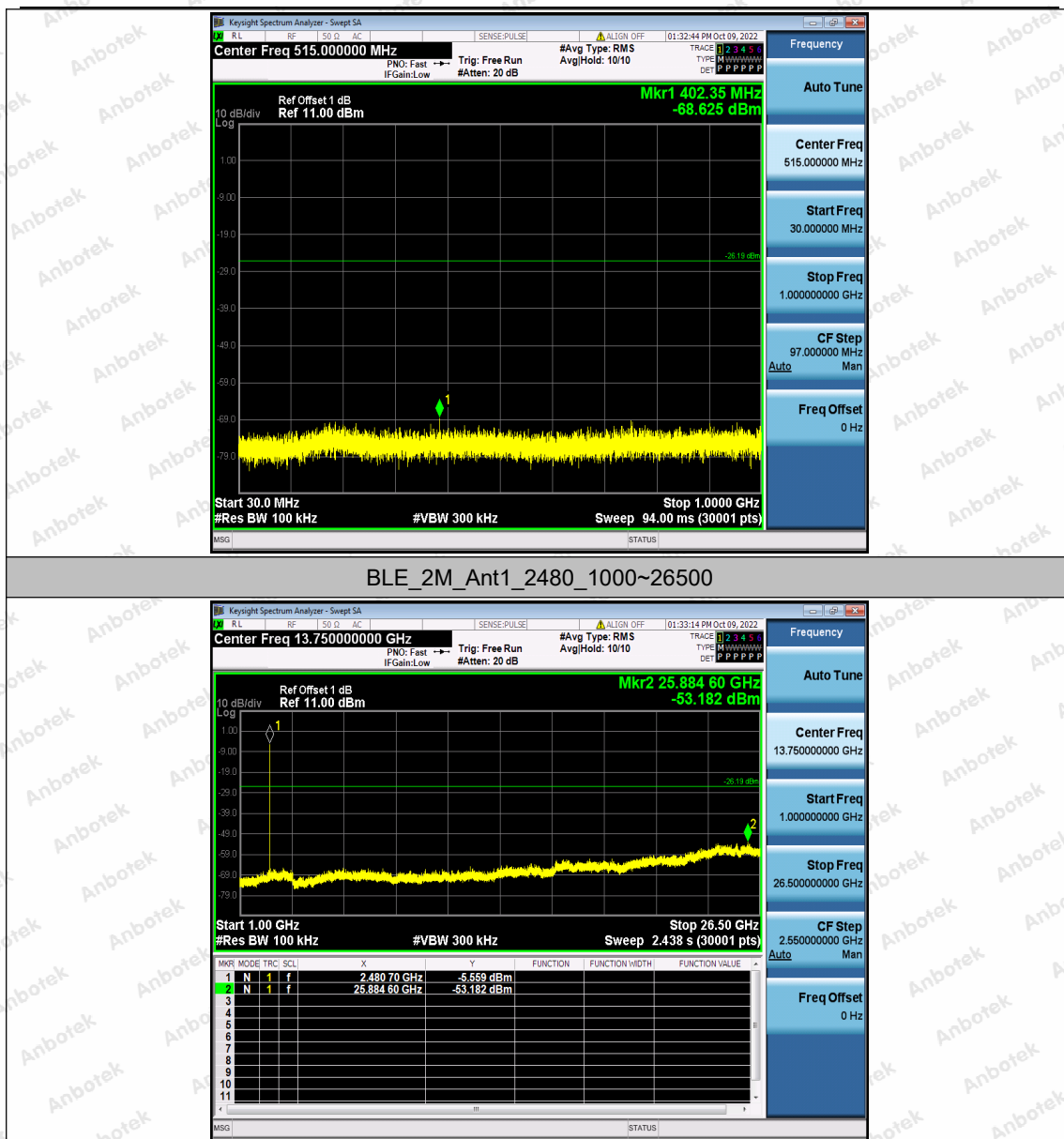
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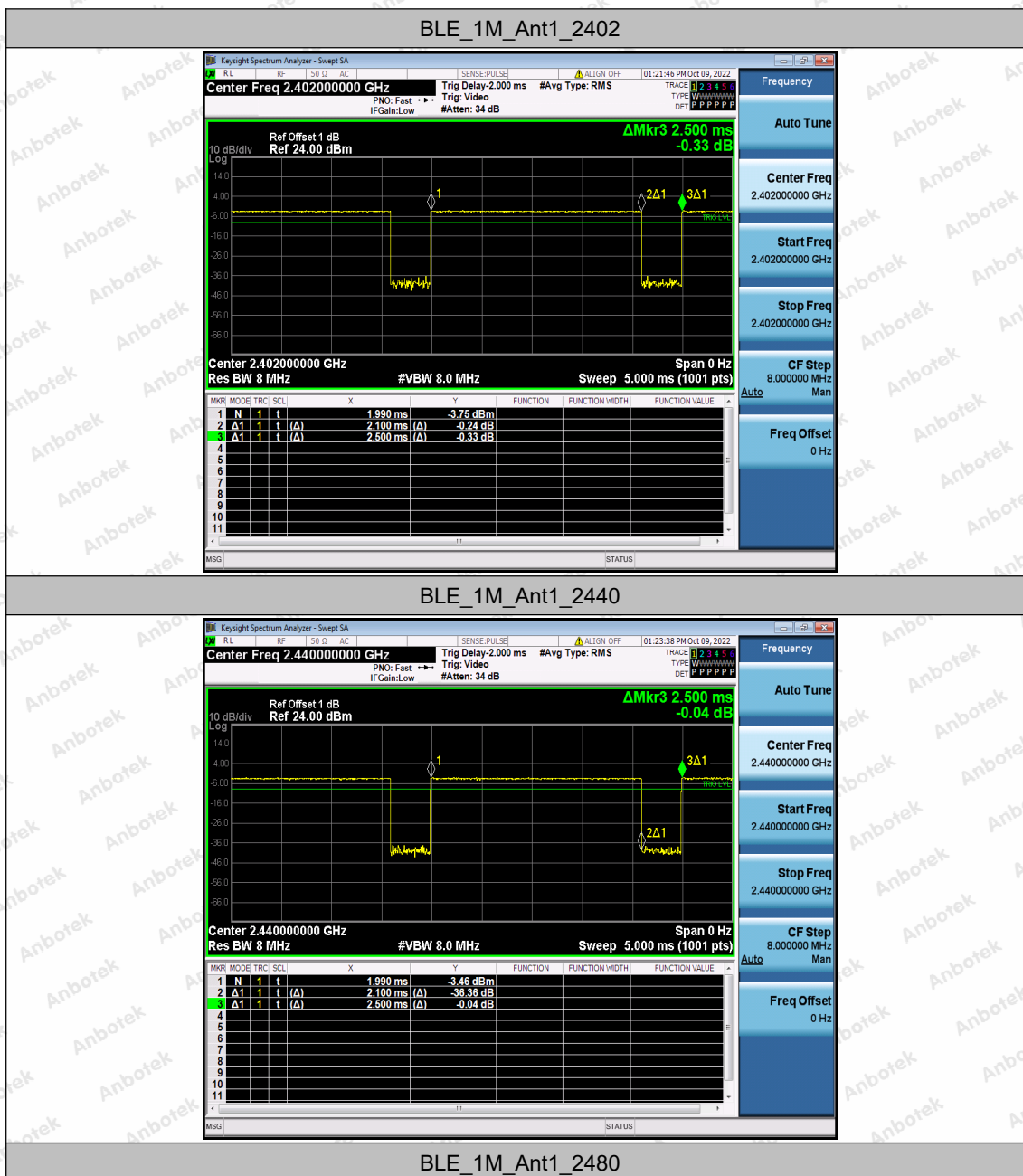
Appendix G: Duty Cycle

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



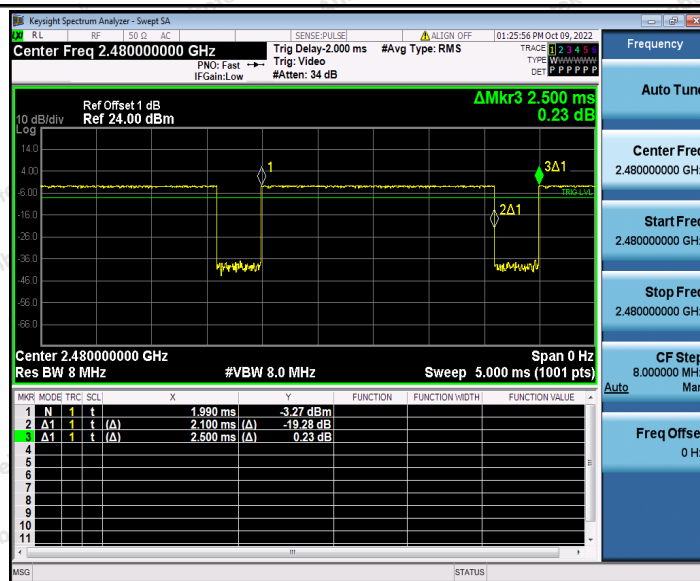
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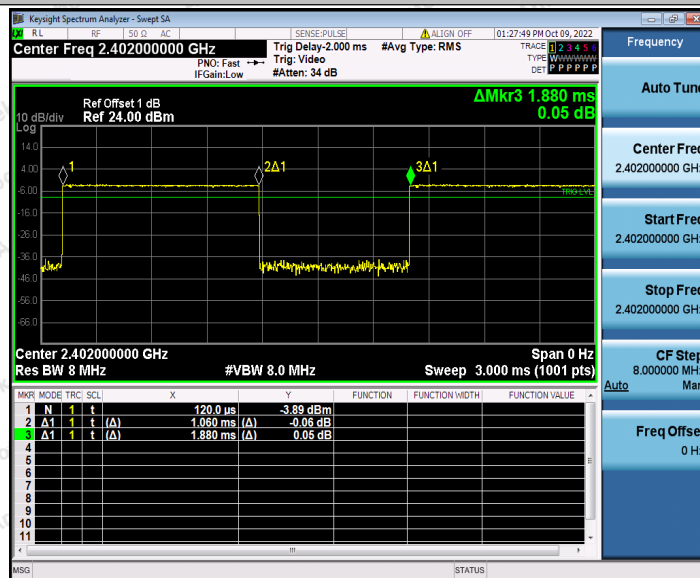


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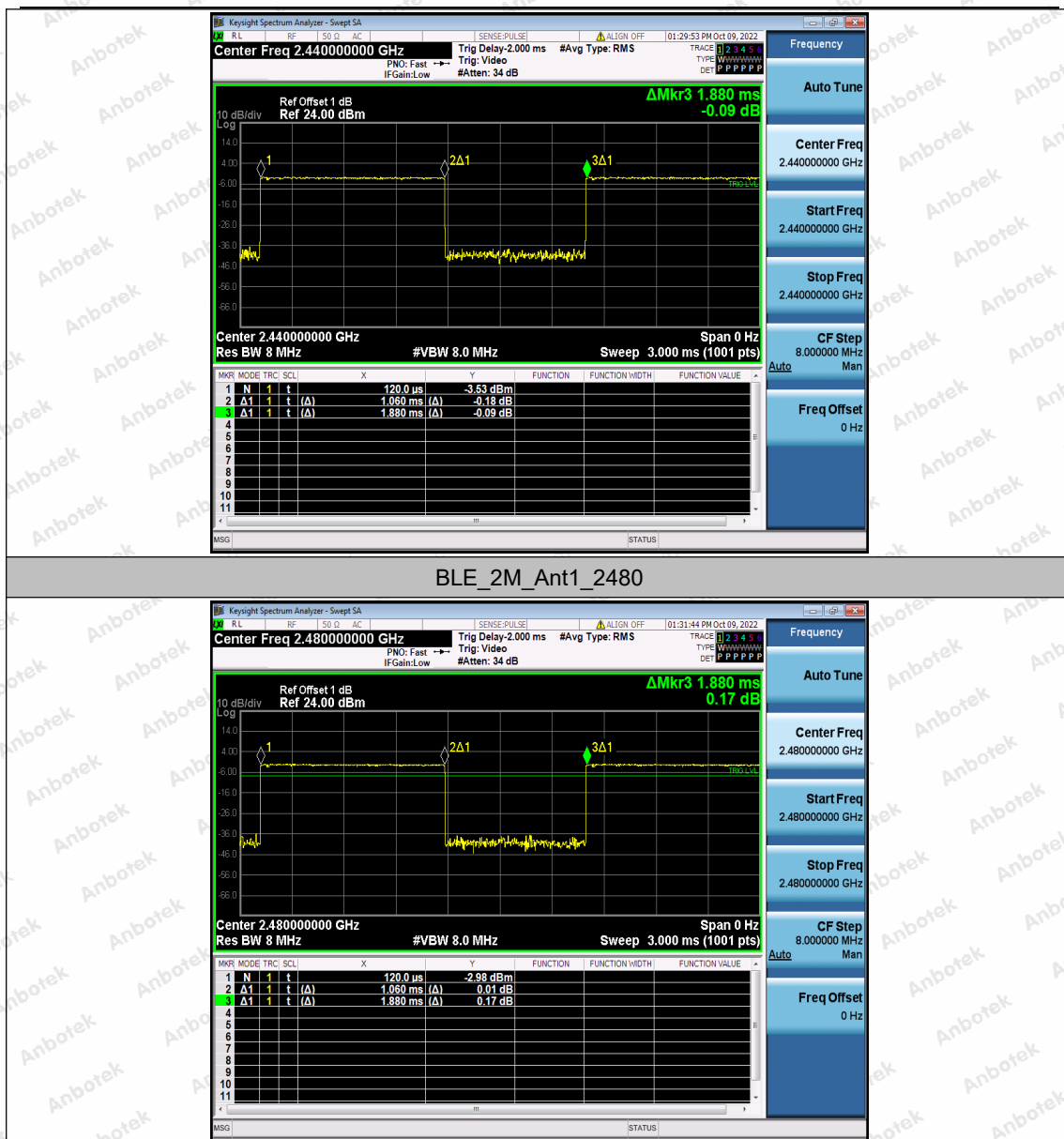


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---End---

