

Appendix Test Data

Report No.:	18220WC20263802	Test Sample No.:	1-2-2
Start Test Date:	2022.11.15	Finish Test Date:	2022.11.23
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	Relative Humidity:	57 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.624	2401.680	2402.304	0.5	PASS
		2440	0.628	2439.676	2440.304	0.5	PASS
		2480	0.628	2479.672	2480.300	0.5	PASS
BLE_2M	Ant1	2402	1.080	2401.476	2402.556	0.5	PASS
		2440	1.196	2439.352	2440.548	0.5	PASS
		2480	1.252	2479.340	2480.592	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

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0407	2401.4836	2402.5243
		2440	1.0369	2439.4794	2440.5163
		2480	1.0307	2479.4862	2480.5169
BLE_2M	Ant1	2402	2.0611	2400.9859	2403.0470
		2440	2.0601	2438.9832	2441.0433
		2480	2.0565	2478.9846	2481.0411



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	5.70	≤30	PASS
		2440	5.91	≤30	PASS
		2480	5.98	≤30	PASS
BLE_2M	Ant1	2402	5.71	≤30	PASS
		2440	5.91	≤30	PASS
		2480	6.01	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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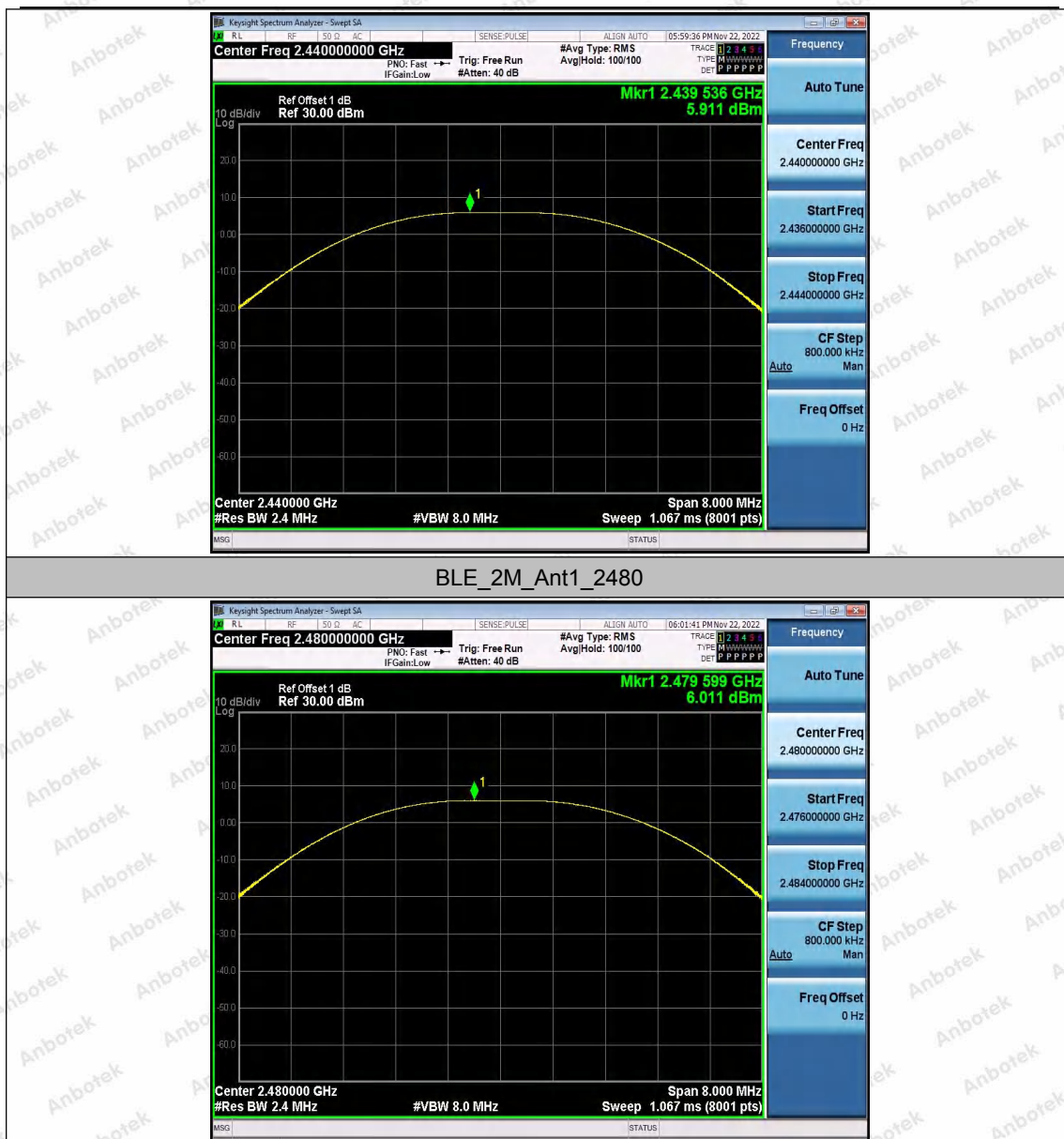


BLE_2M_Ant1_2402



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	-9.24	≤8.00	PASS
		2440	-8.94	≤8.00	PASS
		2480	-8.96	≤8.00	PASS
BLE_2M	Ant1	2402	-12.23	≤8.00	PASS
		2440	-12.27	≤8.00	PASS
		2480	-12.01	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

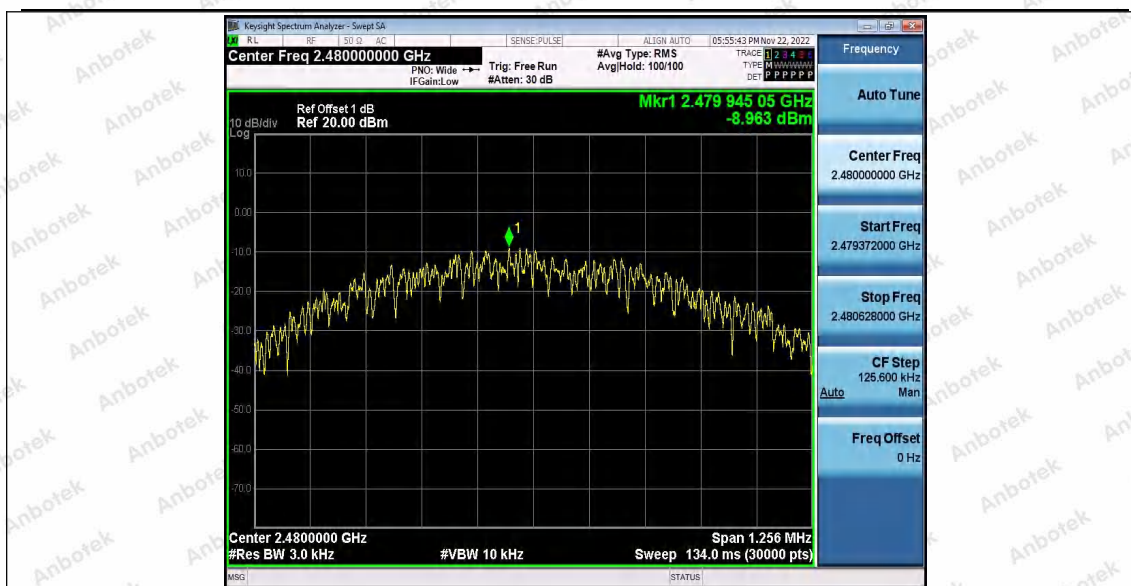
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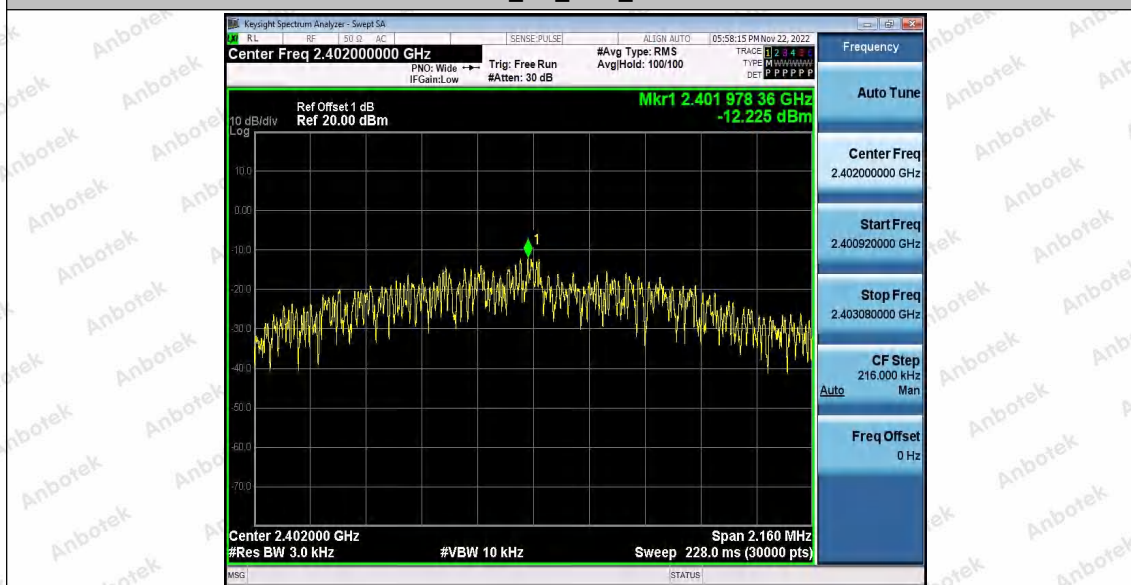


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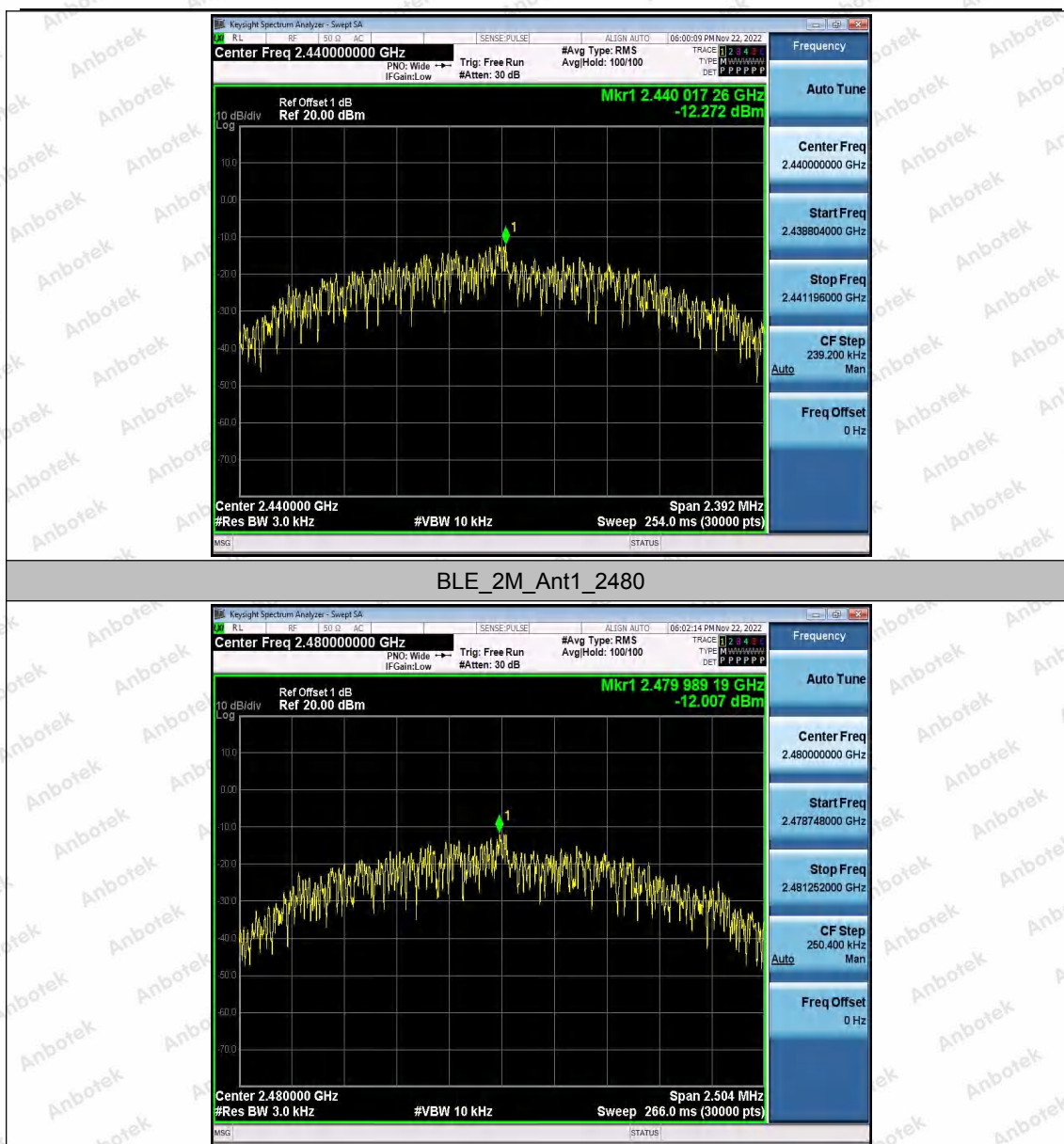


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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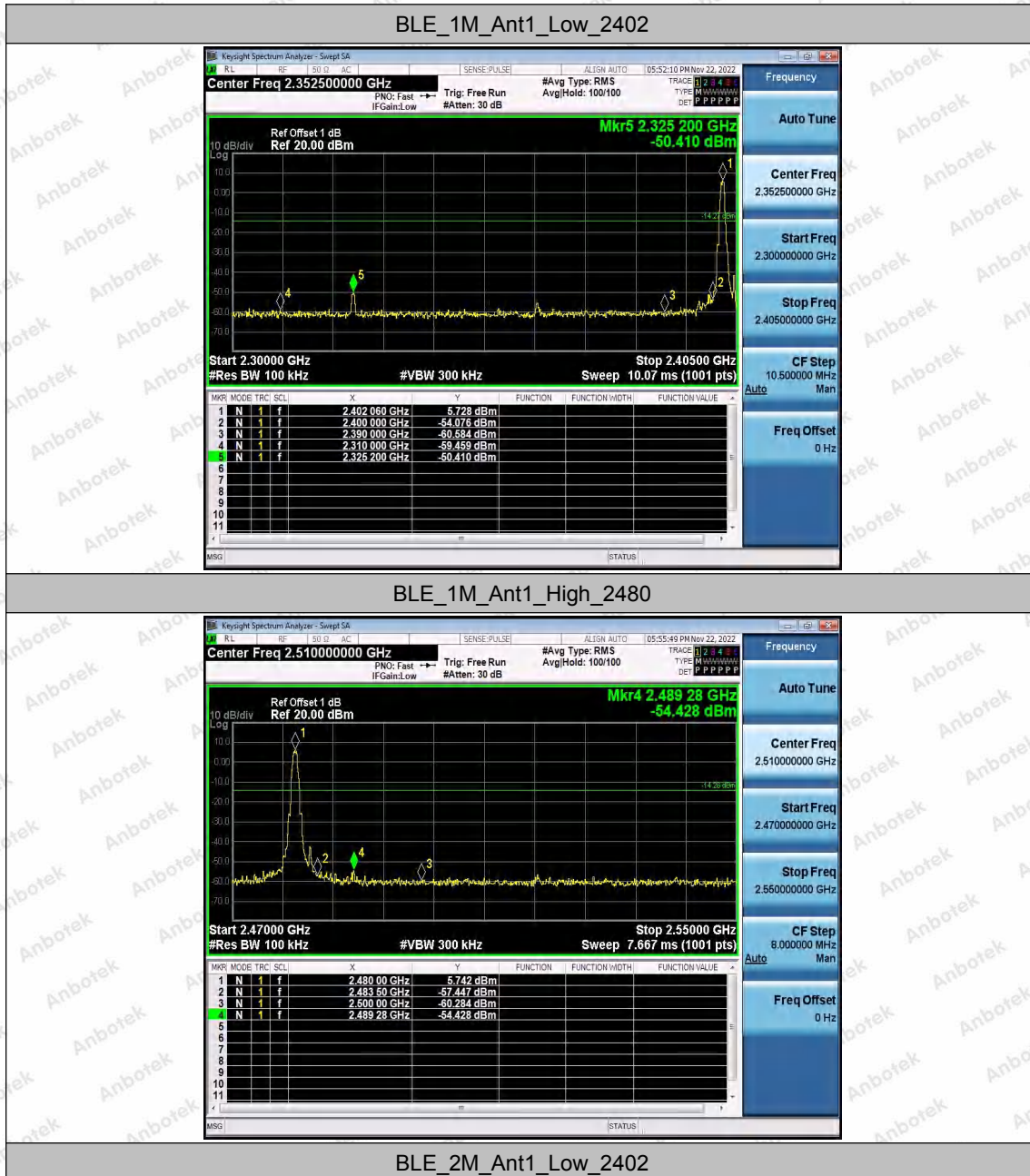
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.73	-50.41	≤-14.27	PASS
		High	2480	5.74	-54.43	≤-14.26	PASS
BLE_2M	Ant1	Low	2402	5.69	-28.01	≤-14.31	PASS
		High	2480	5.05	-40.13	≤-14.95	PASS



Test Graphs



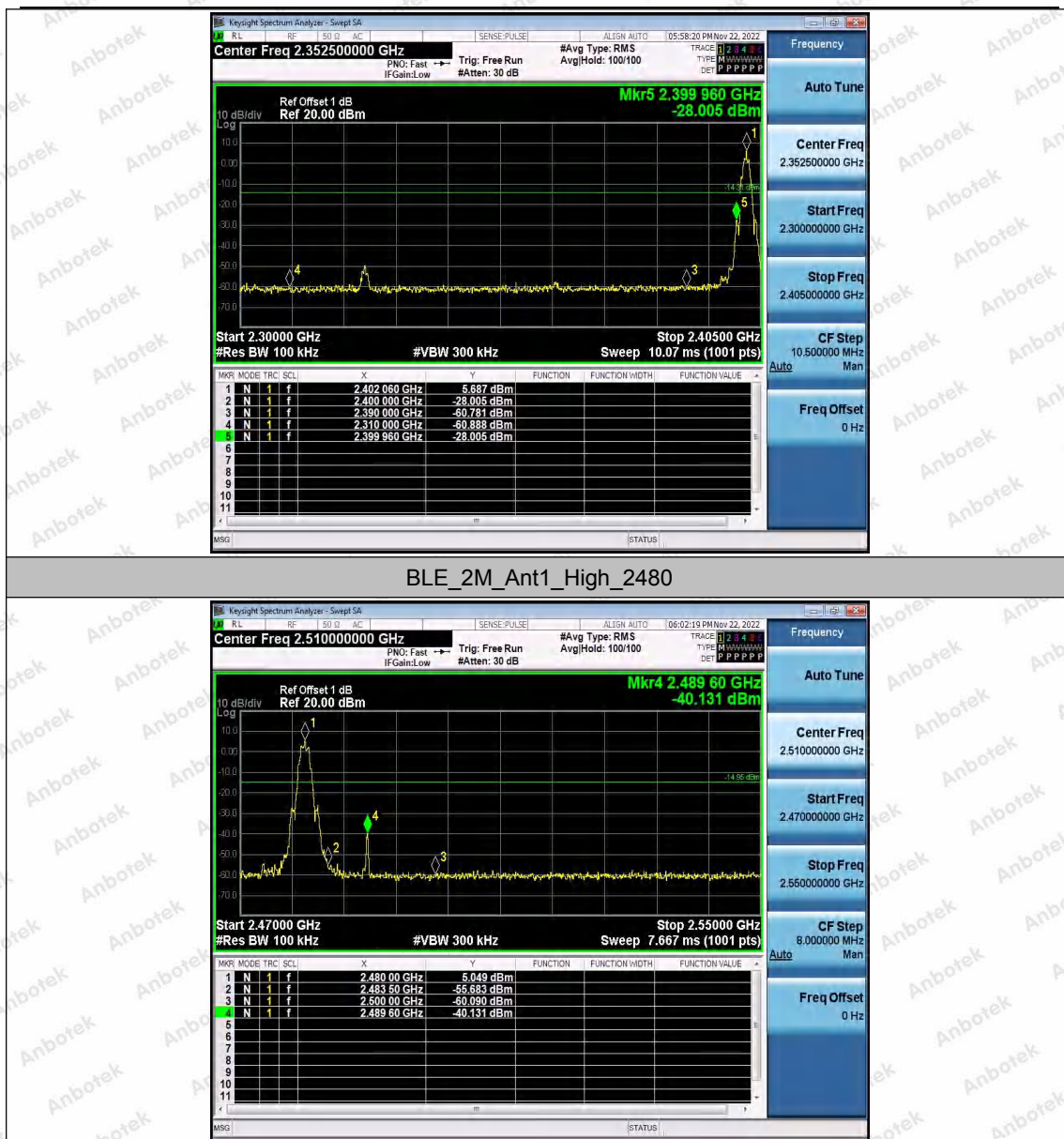
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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.56	5.56	---	PASS
			30~1000	5.56	-68.57	≤-14.44	PASS
			1000~26500	5.56	-52.55	≤-14.44	PASS
		2440	Reference	4.40	4.40	---	PASS
			30~1000	4.40	-68.54	≤-15.6	PASS
			1000~26500	4.40	-51.79	≤-15.6	PASS
		2480	Reference	4.27	4.27	---	PASS
			30~1000	4.27	-69.01	≤-15.73	PASS
			1000~26500	4.27	-52.45	≤-15.73	PASS
BLE_2M	Ant1	2402	Reference	2.51	2.51	---	PASS
			30~1000	2.51	-68.82	≤-17.49	PASS
			1000~26500	2.51	-53.01	≤-17.49	PASS
		2440	Reference	5.78	5.78	---	PASS
			30~1000	5.78	-68.51	≤-14.22	PASS
			1000~26500	5.78	-52.11	≤-14.22	PASS
		2480	Reference	2.52	2.52	---	PASS
			30~1000	2.52	-68.67	≤-17.48	PASS
			1000~26500	2.52	-53.13	≤-17.48	PASS

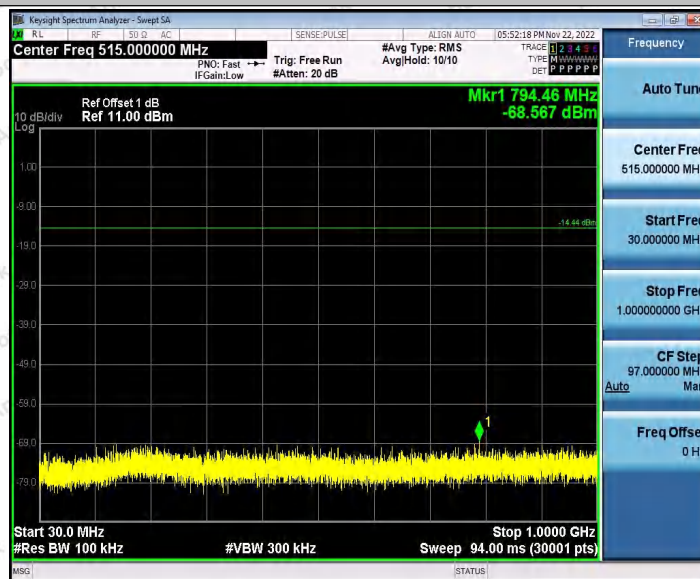


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

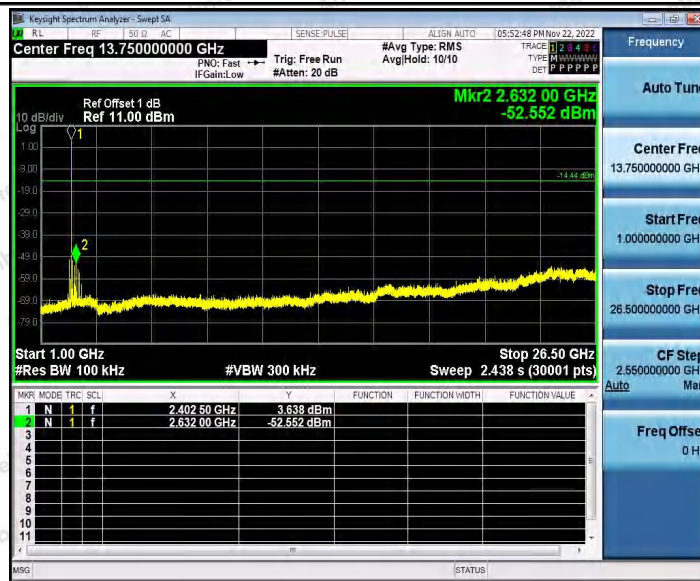
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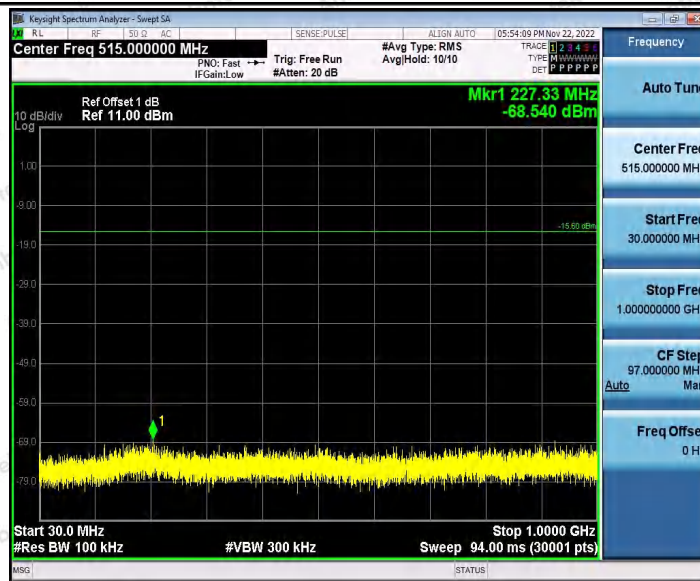


BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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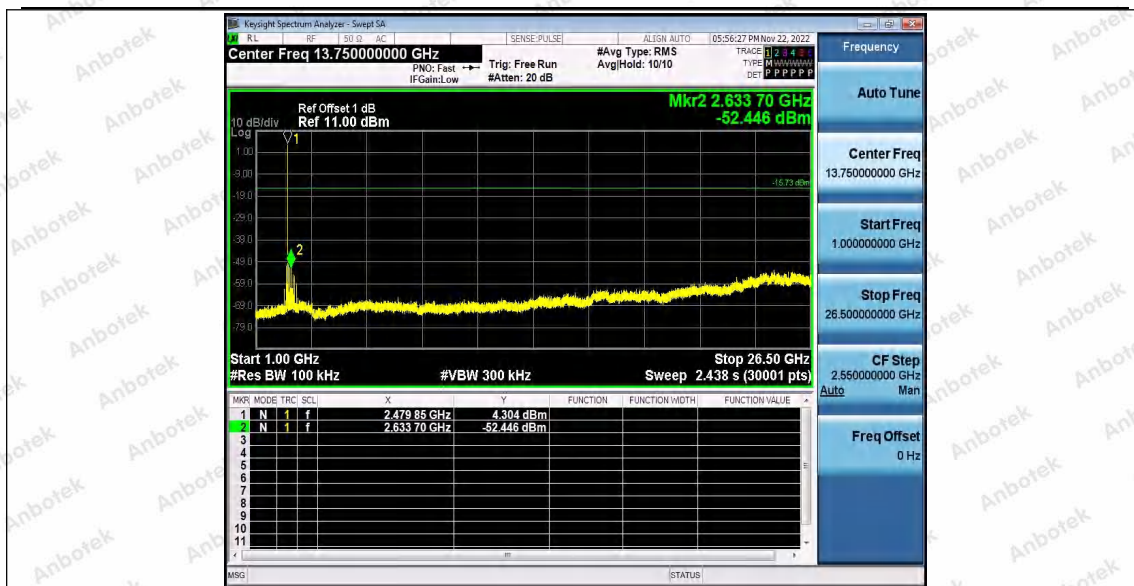
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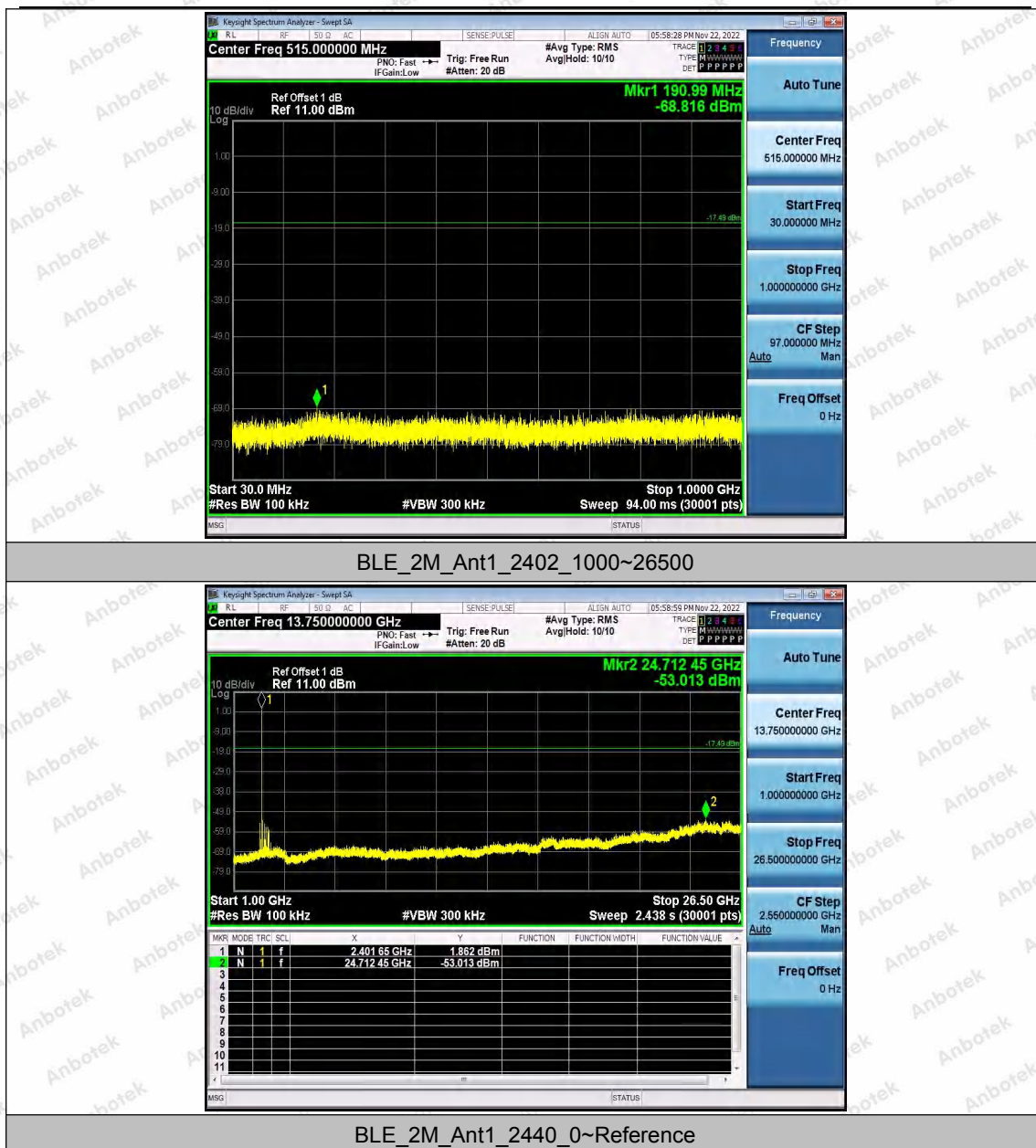


BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000





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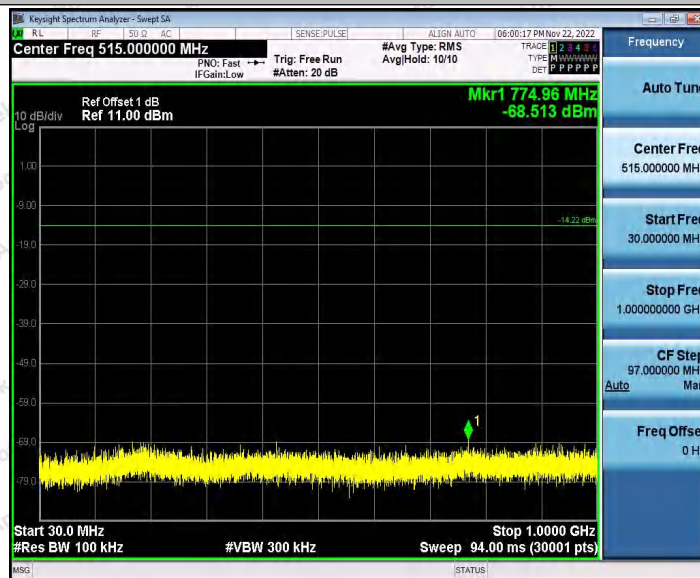


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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

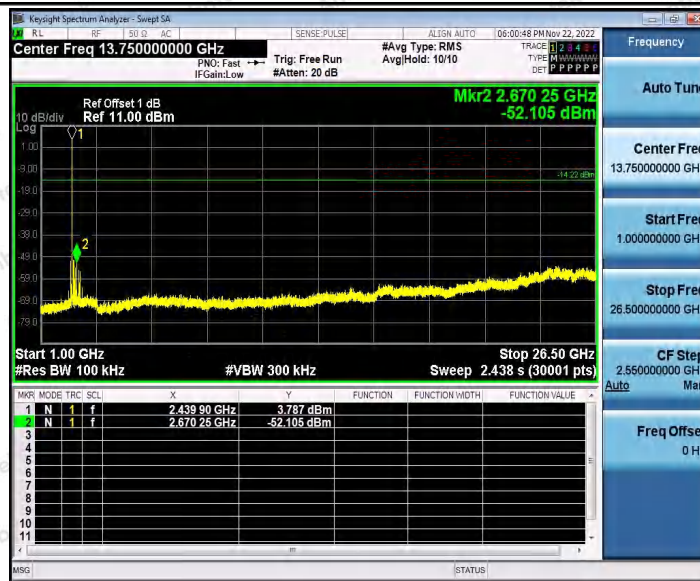
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000

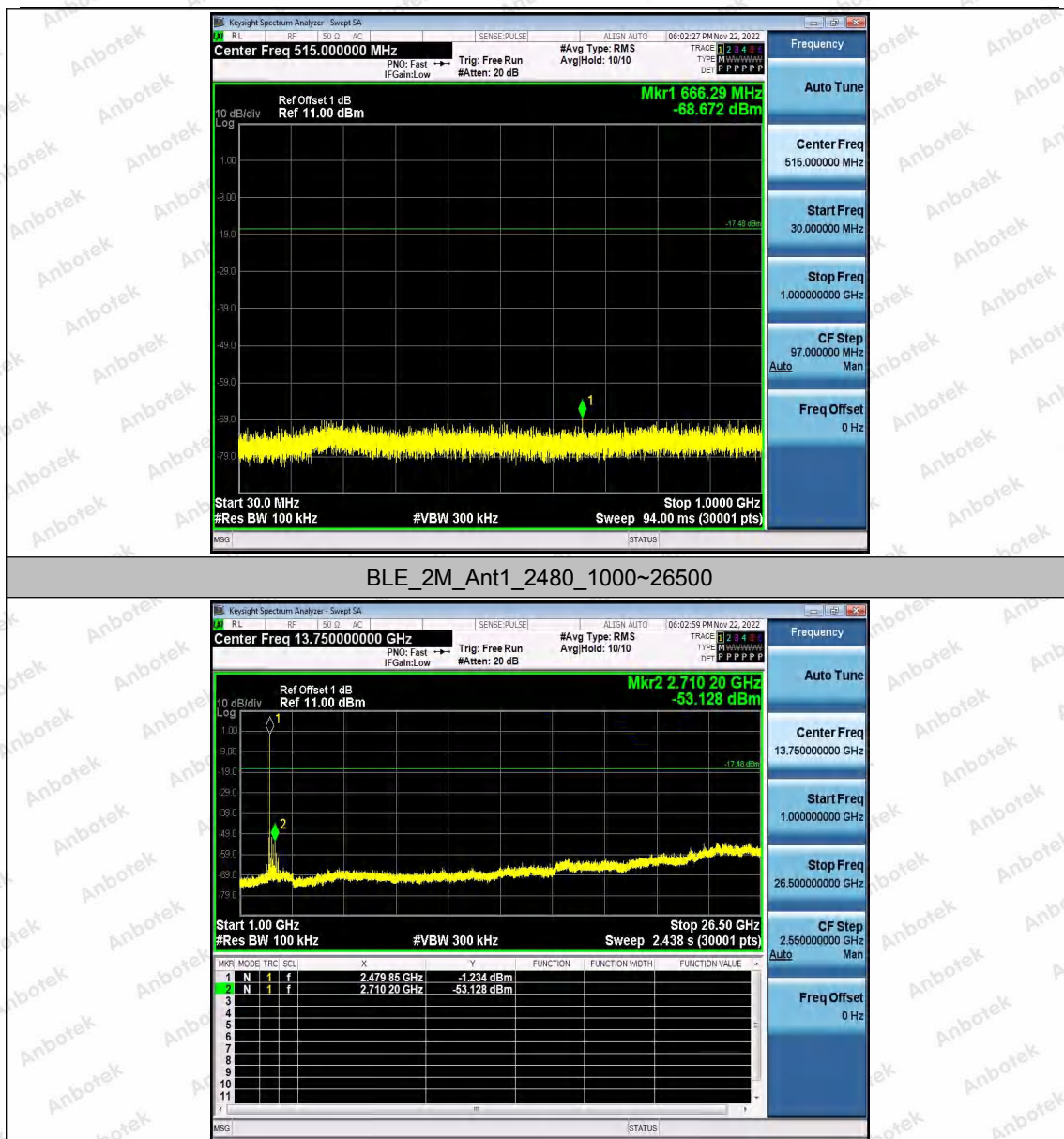
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
		2440	0.39	0.63	61.90	2.08
		2480	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
		2440	0.21	0.63	33.33	4.77
		2480	0.21	0.63	33.33	4.77



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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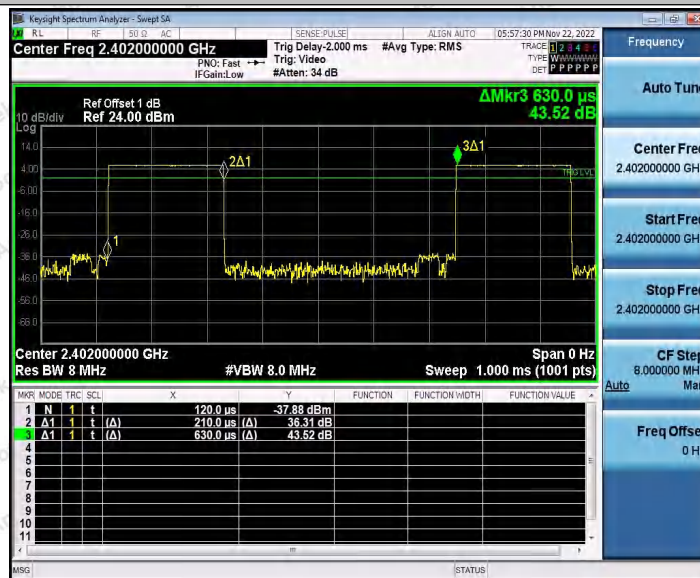


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

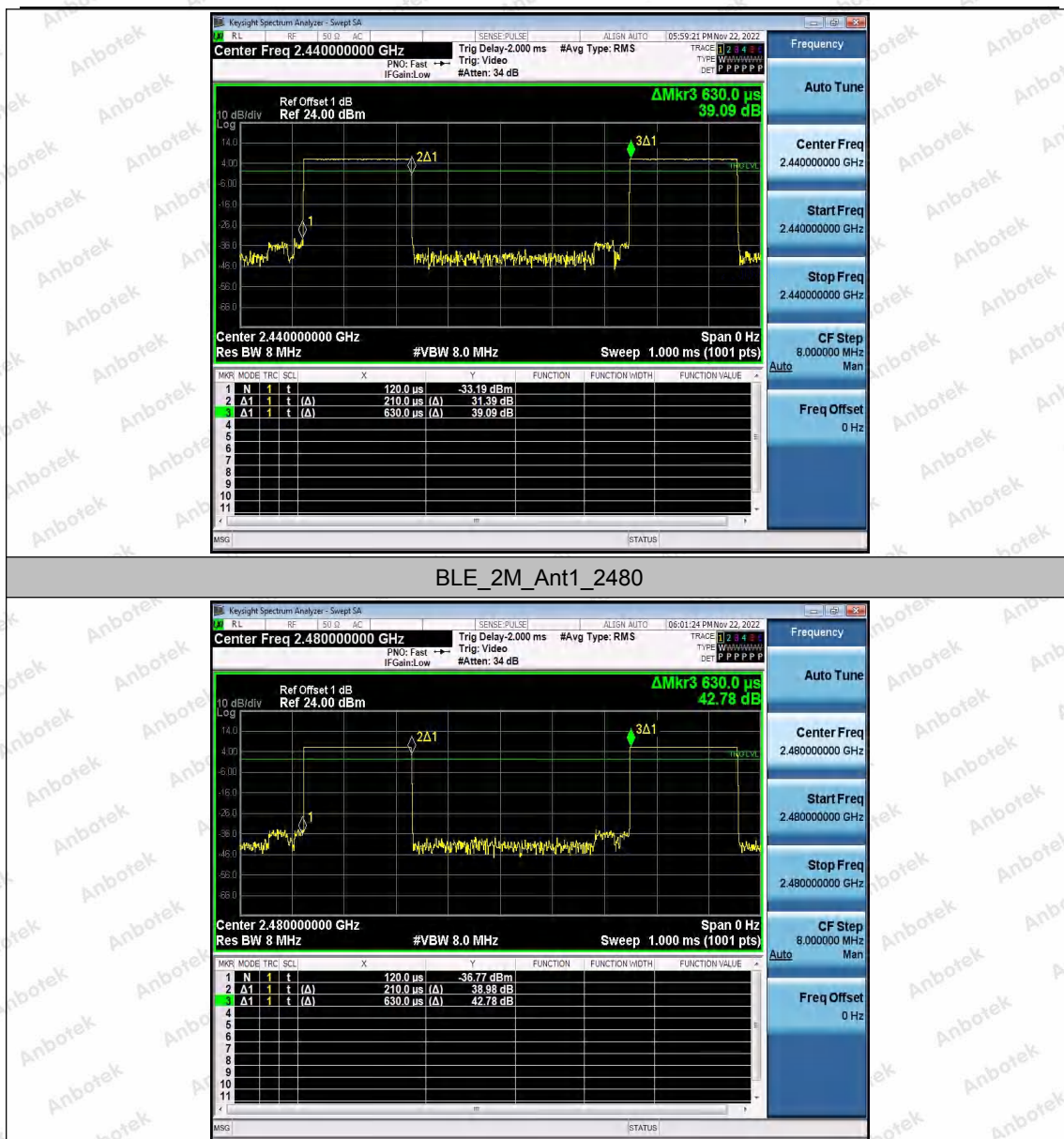
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