

Appendix Test Data

Report No.:	18220WC20291402	Test Sample No.:	1-2-2
Start Test Date:	2022.12.21	Finish Test Date:	2022.12.26
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	0.512	2401.680	2402.192	0.5	PASS
		2440	0.516	2439.696	2440.212	0.5	PASS
		2480	0.512	2479.684	2480.196	0.5	PASS
BLE_2M	Ant1	2402	0.824	2401.428	2402.252	0.5	PASS
		2440	0.776	2439.452	2440.228	0.5	PASS
		2480	0.828	2479.424	2480.252	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





BLE_2M_Ant1_2480



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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	1.1615	2401.3889	2402.5504
		2440	1.1880	2439.3679	2440.5559
		2480	1.2047	2479.3514	2480.5561
BLE_2M	Ant1	2402	2.0860	2400.9767	2403.0627
		2440	2.0968	2438.9668	2441.0636
		2480	2.0961	2478.9672	2481.0633



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

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.20	≤30	PASS
		2440	0.51	≤30	PASS
		2480	1.04	≤30	PASS
BLE_2M	Ant1	2402	-0.27	≤30	PASS
		2440	0.52	≤30	PASS
		2480	1.09	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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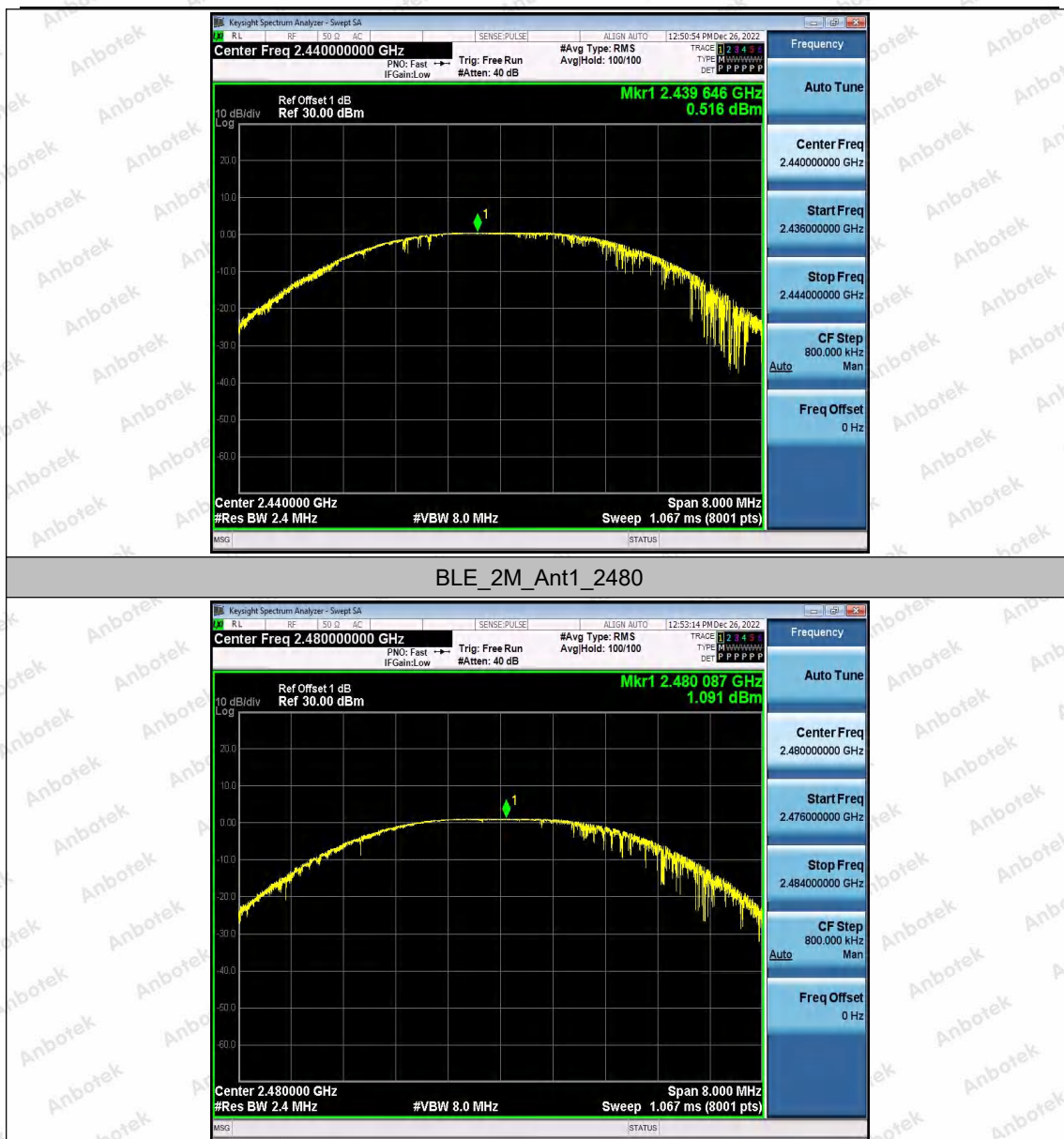


BLE_2M_Ant1_2402



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	-20.87	≤8.00	PASS
		2440	-20.24	≤8.00	PASS
		2480	-19.25	≤8.00	PASS
BLE_2M	Ant1	2402	-22.64	≤8.00	PASS
		2440	-21.80	≤8.00	PASS
		2480	-21.32	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

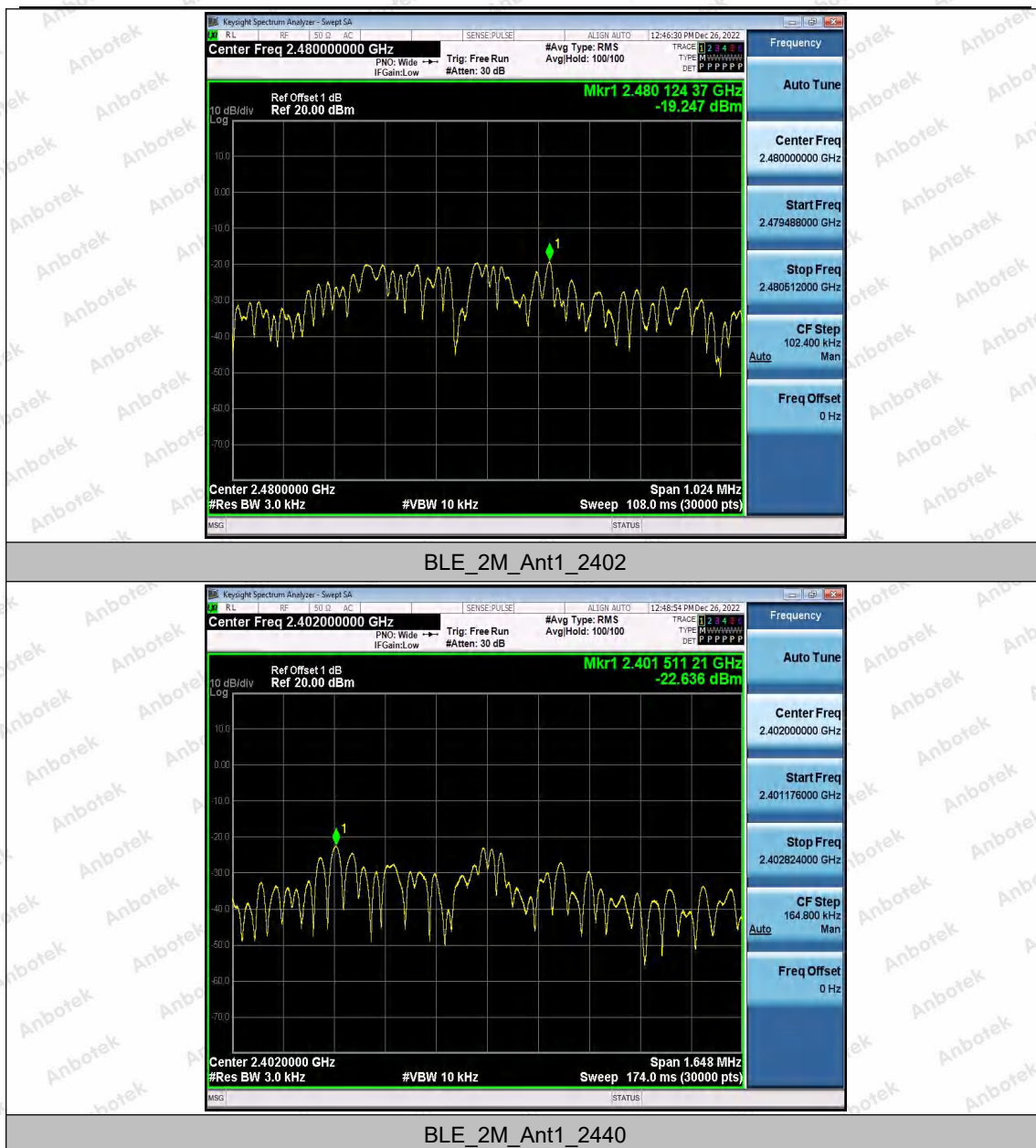
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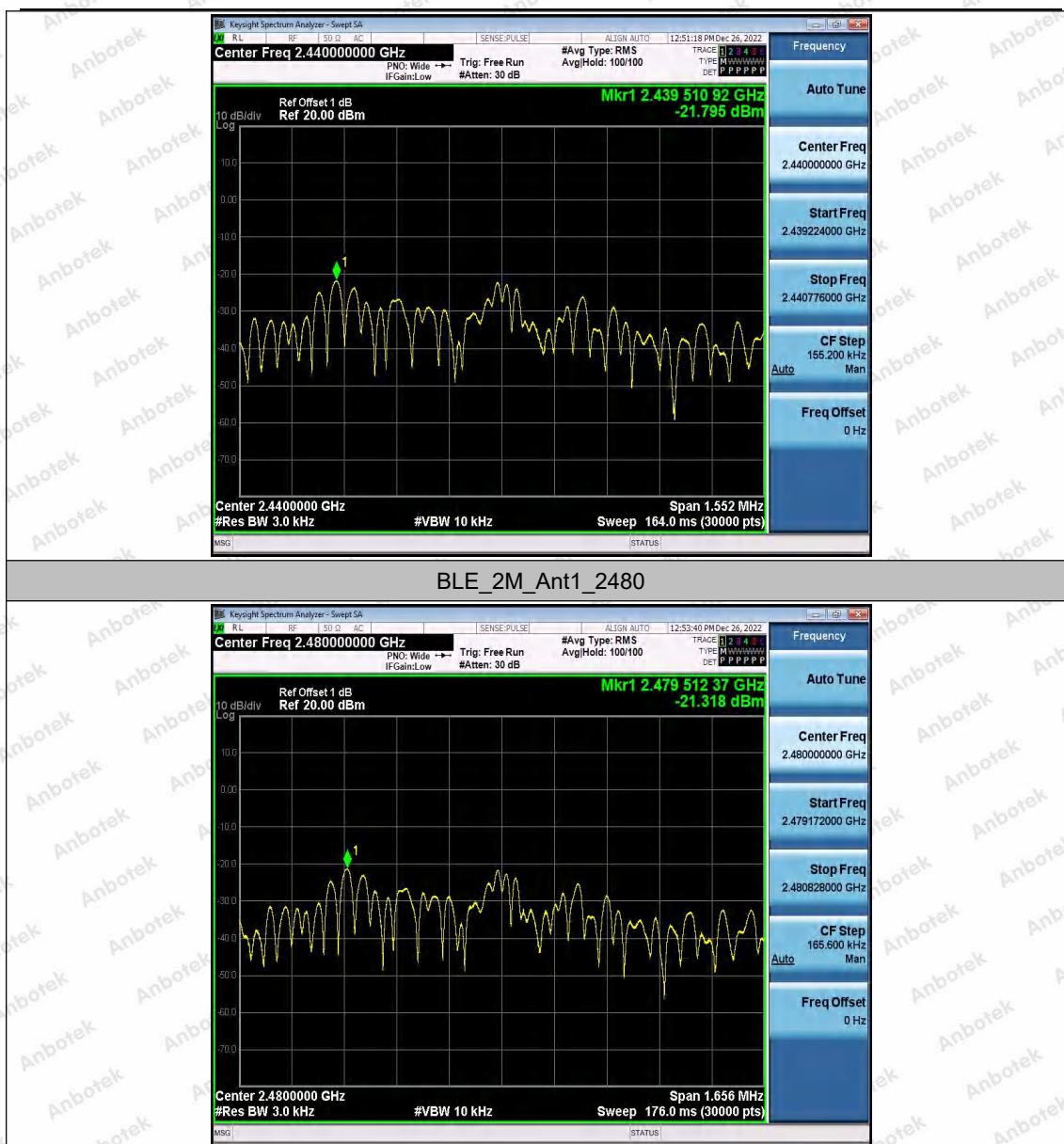
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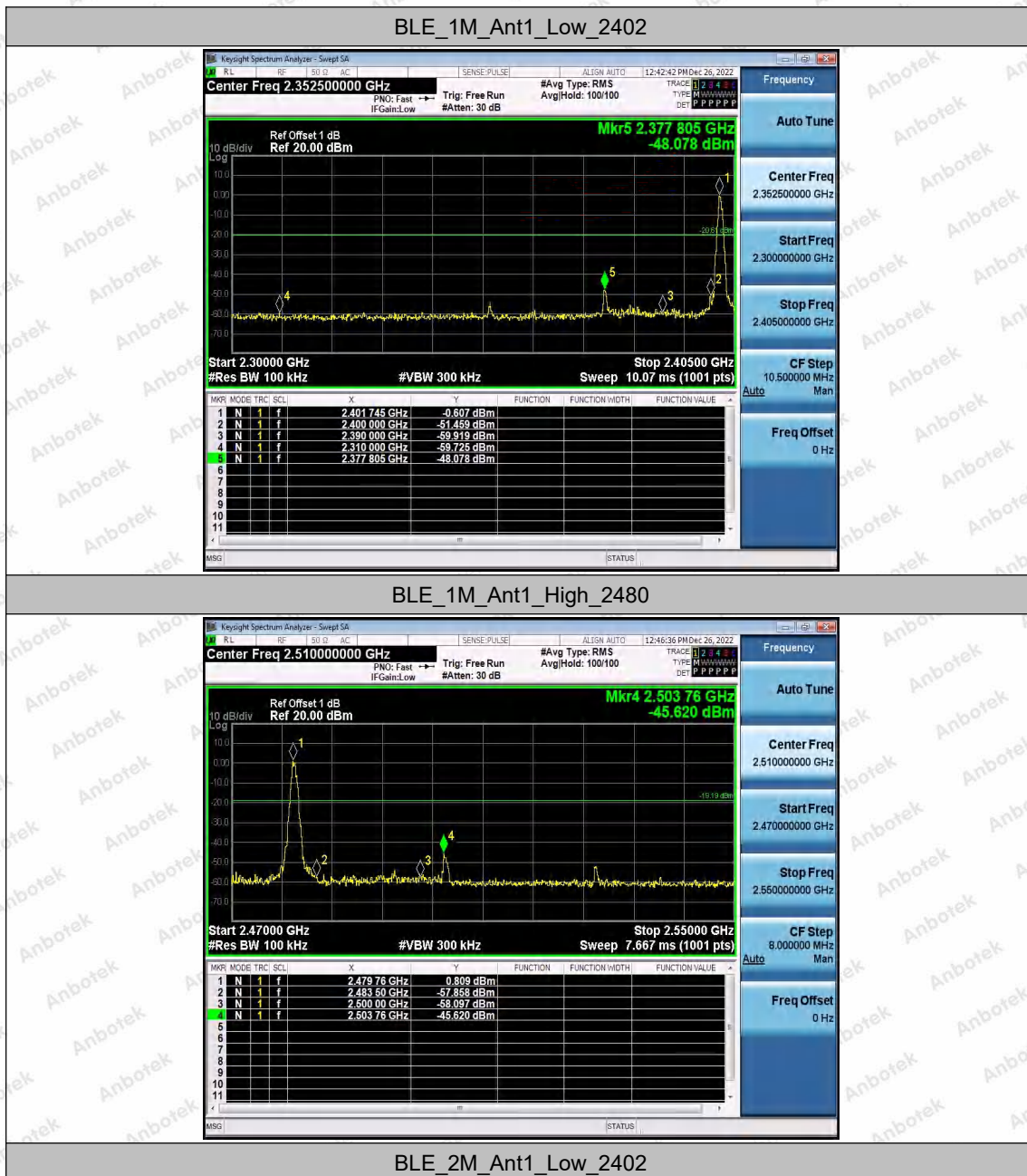
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.61	-48.08	≤-20.61	PASS
		High	2480	0.81	-45.62	≤-19.19	PASS
BLE_2M	Ant1	Low	2402	-0.93	-32.65	≤-20.93	PASS
		High	2480	0.40	-44.99	≤-19.60	PASS



Test Graphs



BLE_2M_Ant1_Low_2402

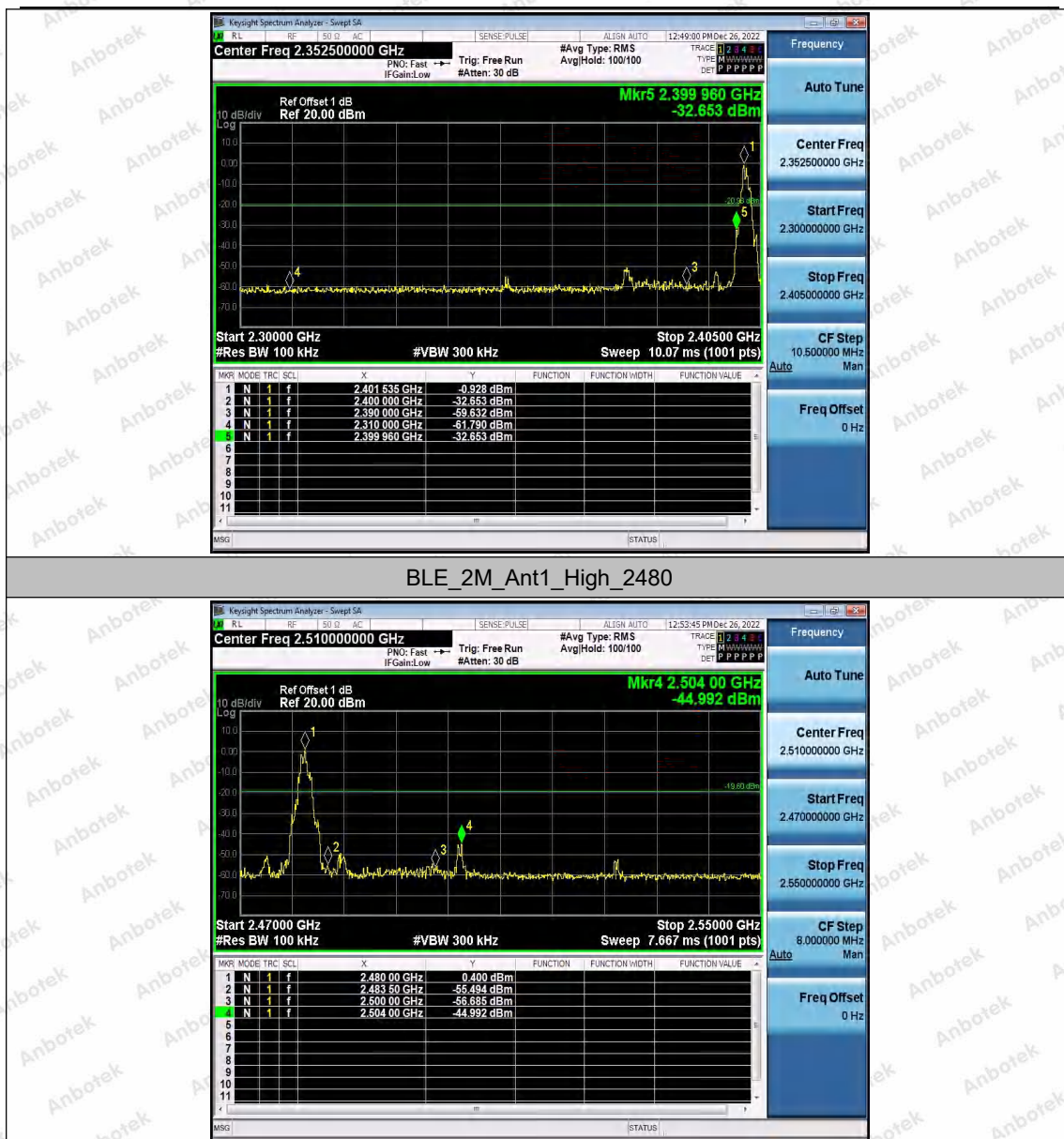
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.26	-0.26	---	PASS
			30~1000	-0.26	-68.54	≤-20.26	PASS
			1000~26500	-0.26	-47.44	≤-20.26	PASS
		2440	Reference	0.24	0.24	---	PASS
			30~1000	0.24	-68.28	≤-19.76	PASS
			1000~26500	0.24	-46.32	≤-19.76	PASS
		2480	Reference	0.58	0.58	---	PASS
			30~1000	0.58	-68.78	≤-19.42	PASS
			1000~26500	0.58	-48.46	≤-19.42	PASS
BLE_2M	Ant1	2402	Reference	-1.31	-1.31	---	PASS
			30~1000	-1.31	-69.24	≤-21.31	PASS
			1000~26500	-1.31	-38.72	≤-21.31	PASS
		2440	Reference	-1.00	-1.00	---	PASS
			30~1000	-1.00	-68.09	≤-21.00	PASS
			1000~26500	-1.00	-49.79	≤-21.00	PASS
		2480	Reference	0.04	0.04	---	PASS
			30~1000	0.04	-67.84	≤-19.96	PASS
			1000~26500	0.04	-47.08	≤-19.96	PASS

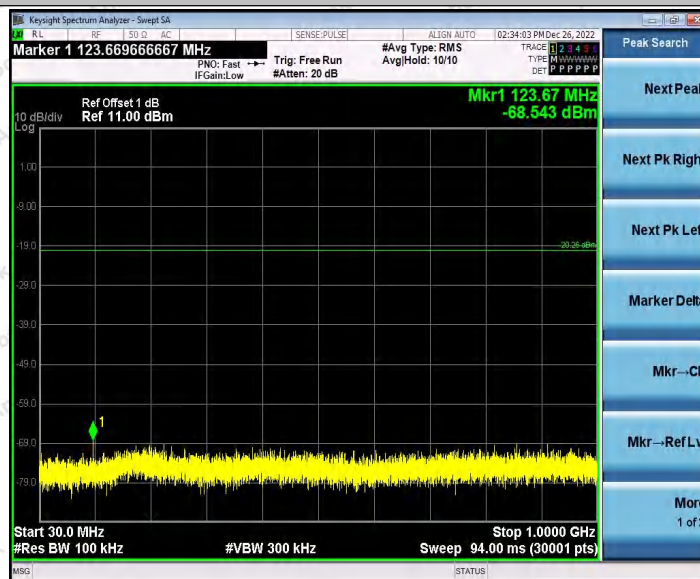


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

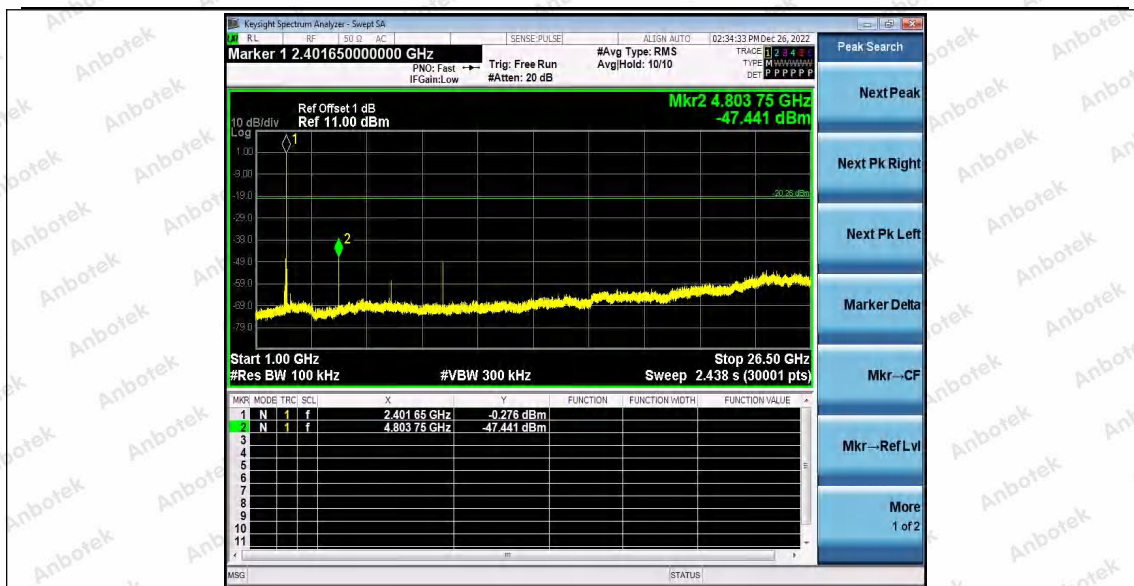
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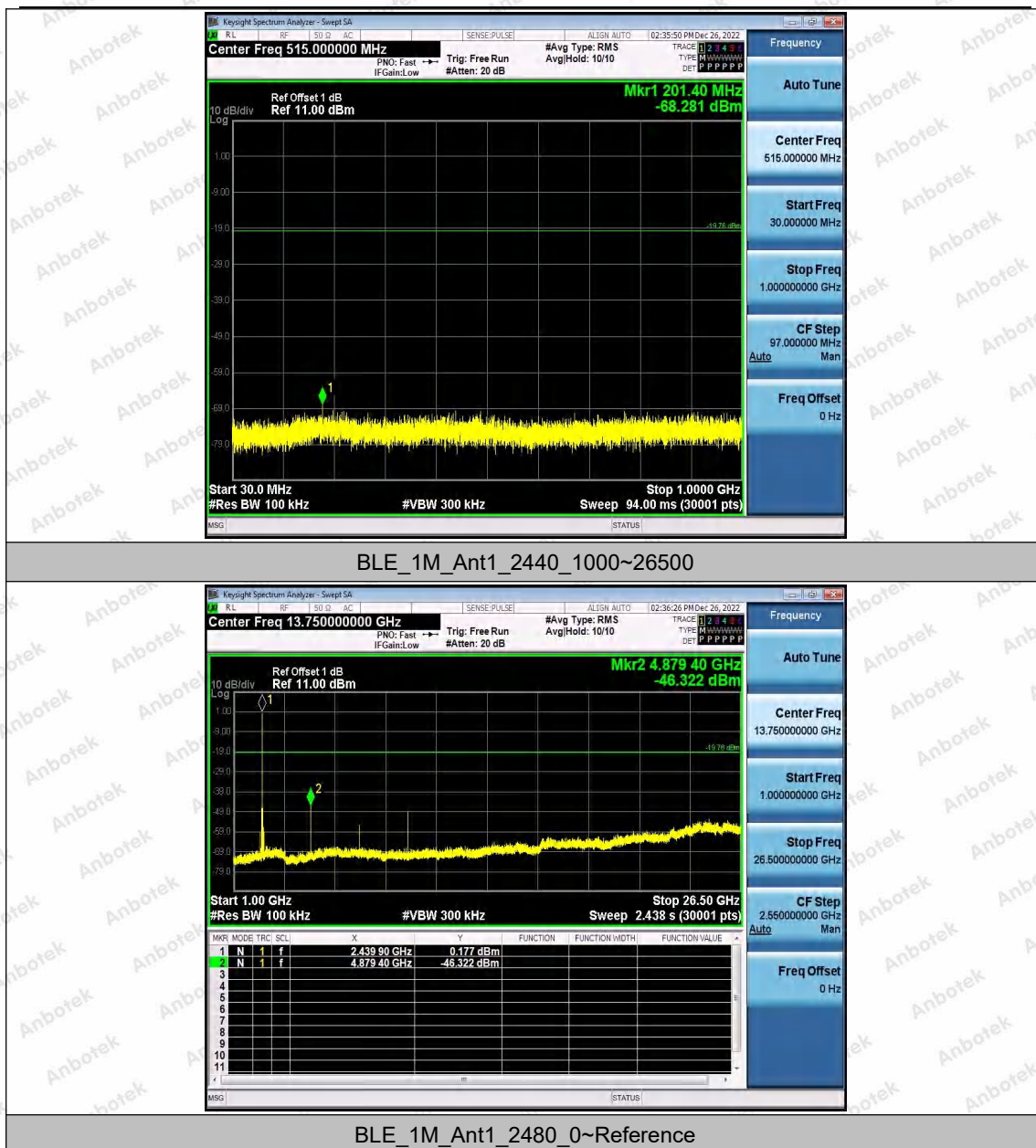


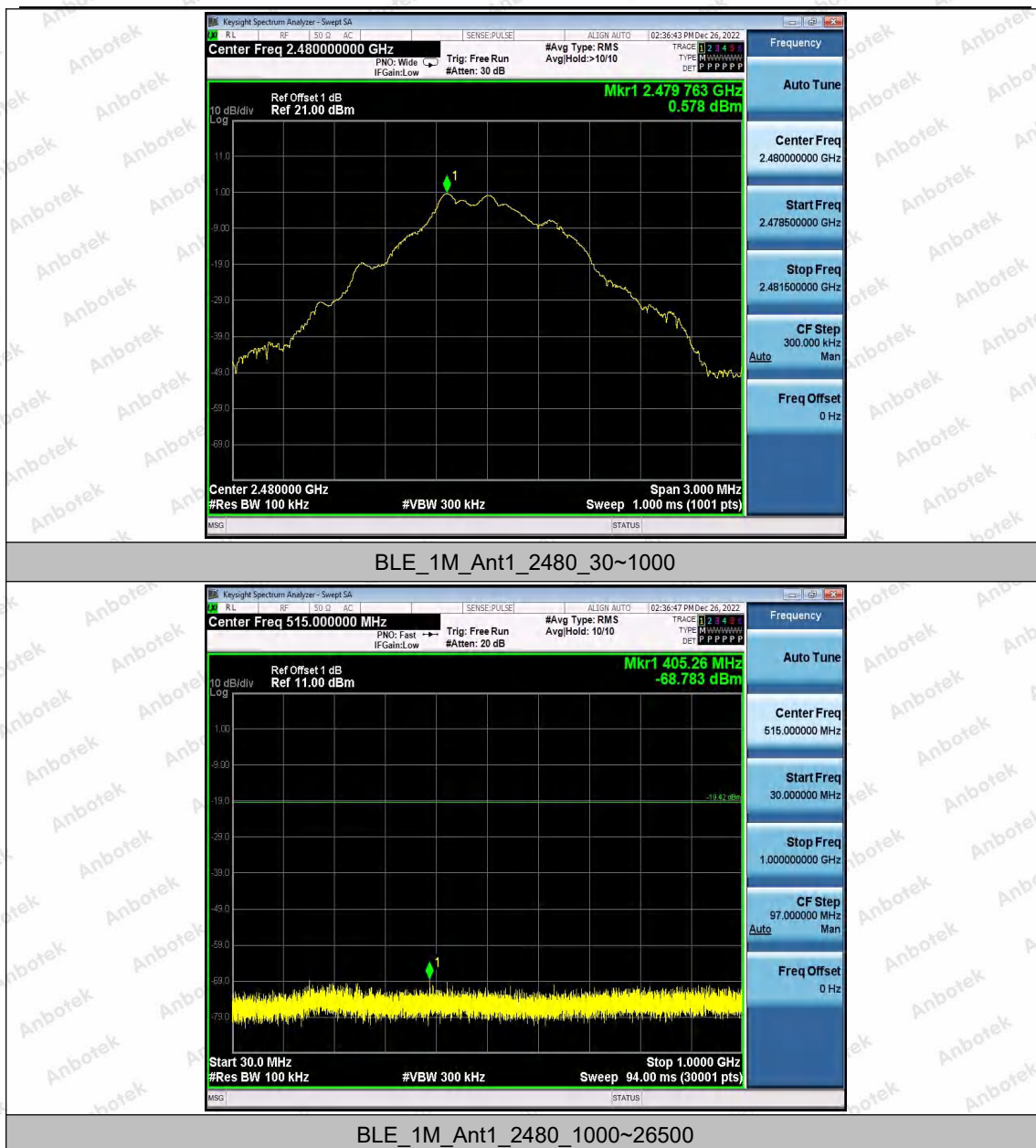
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BLE_1M_Ant1_2440_30~1000





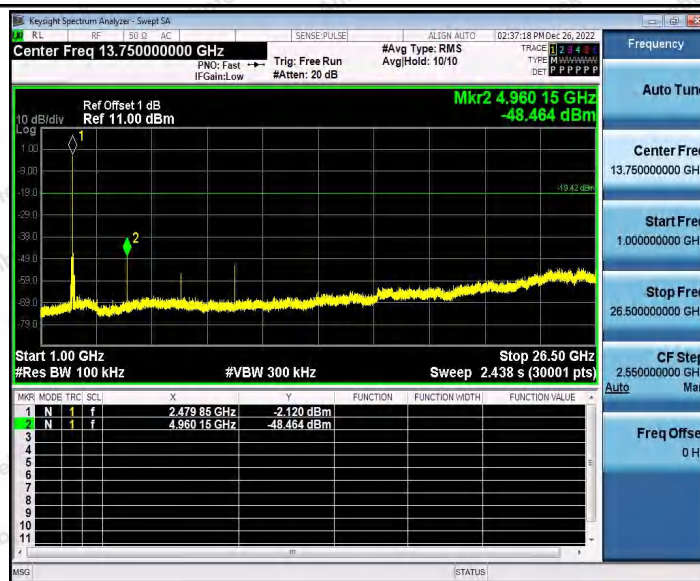
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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

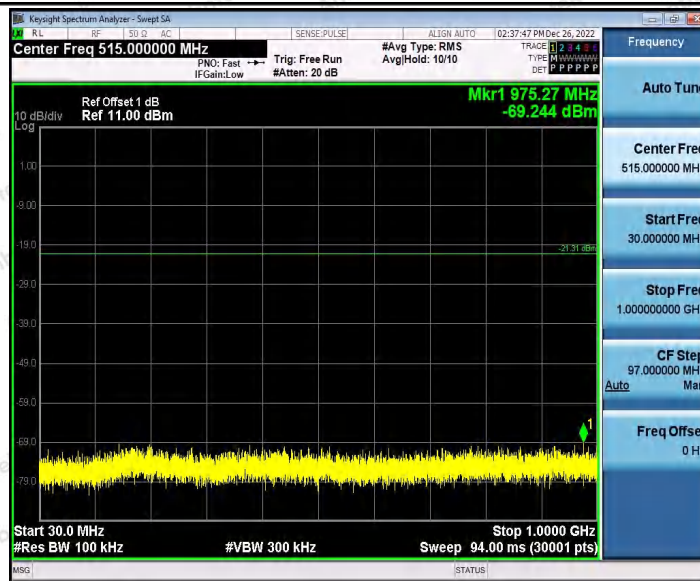
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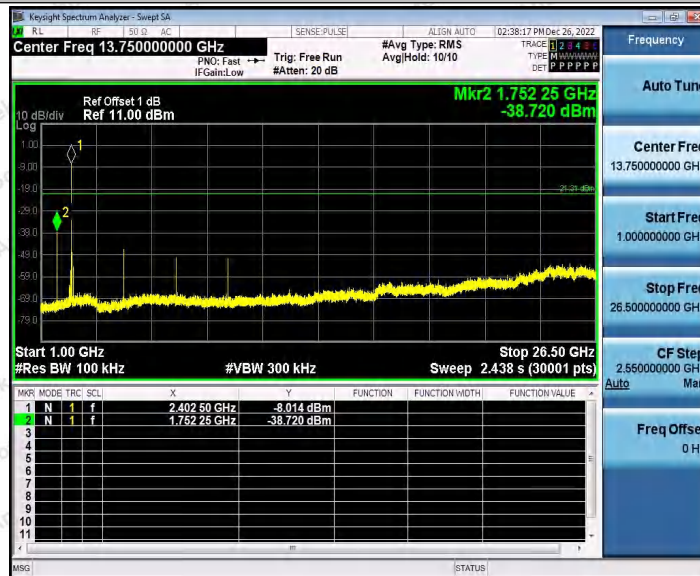


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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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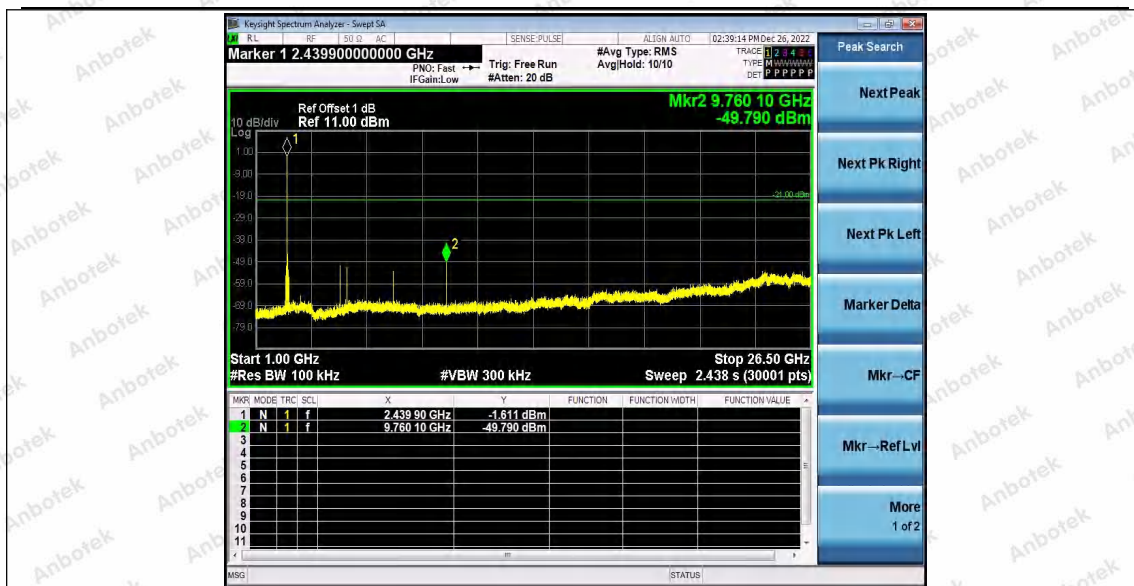
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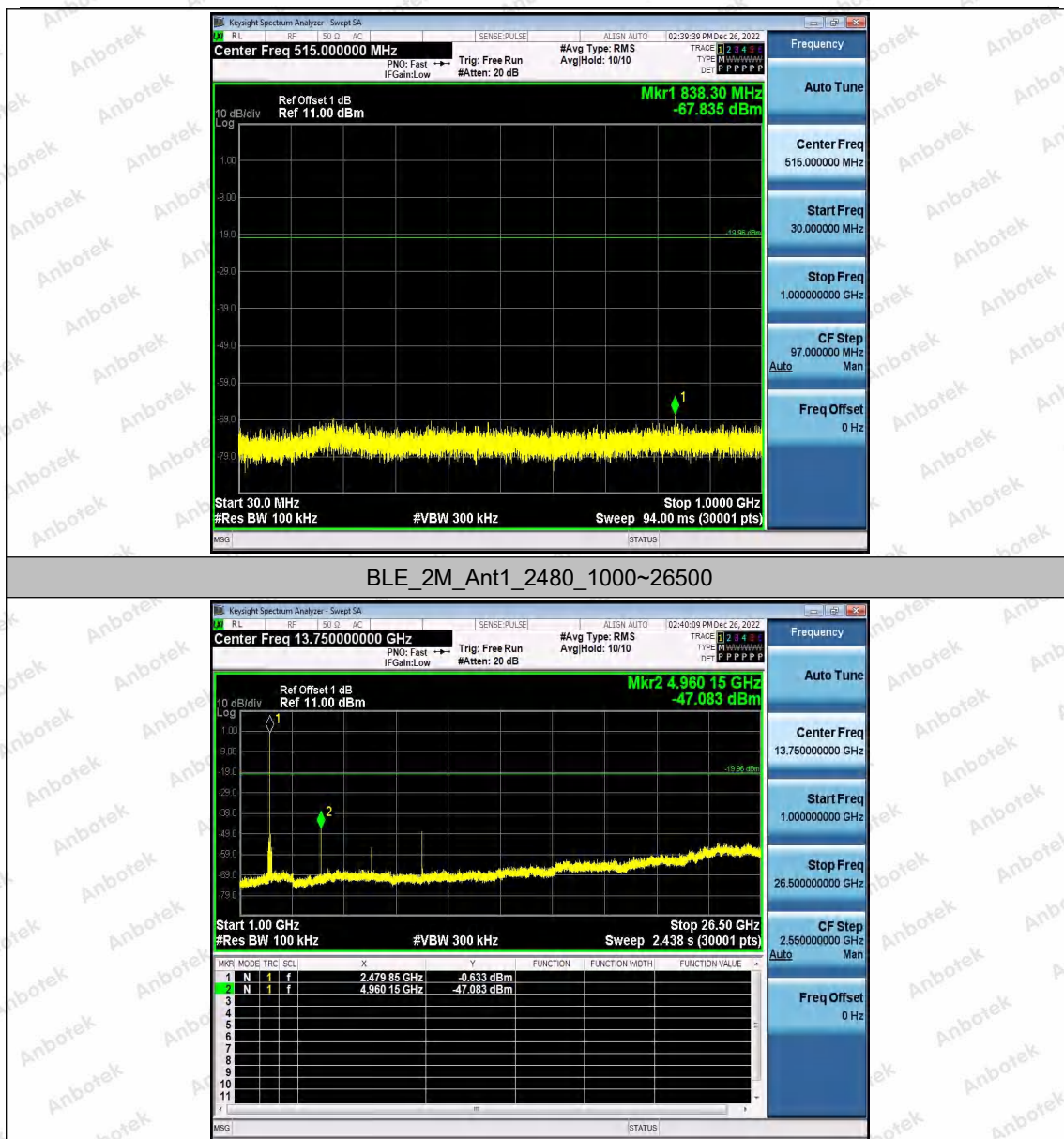


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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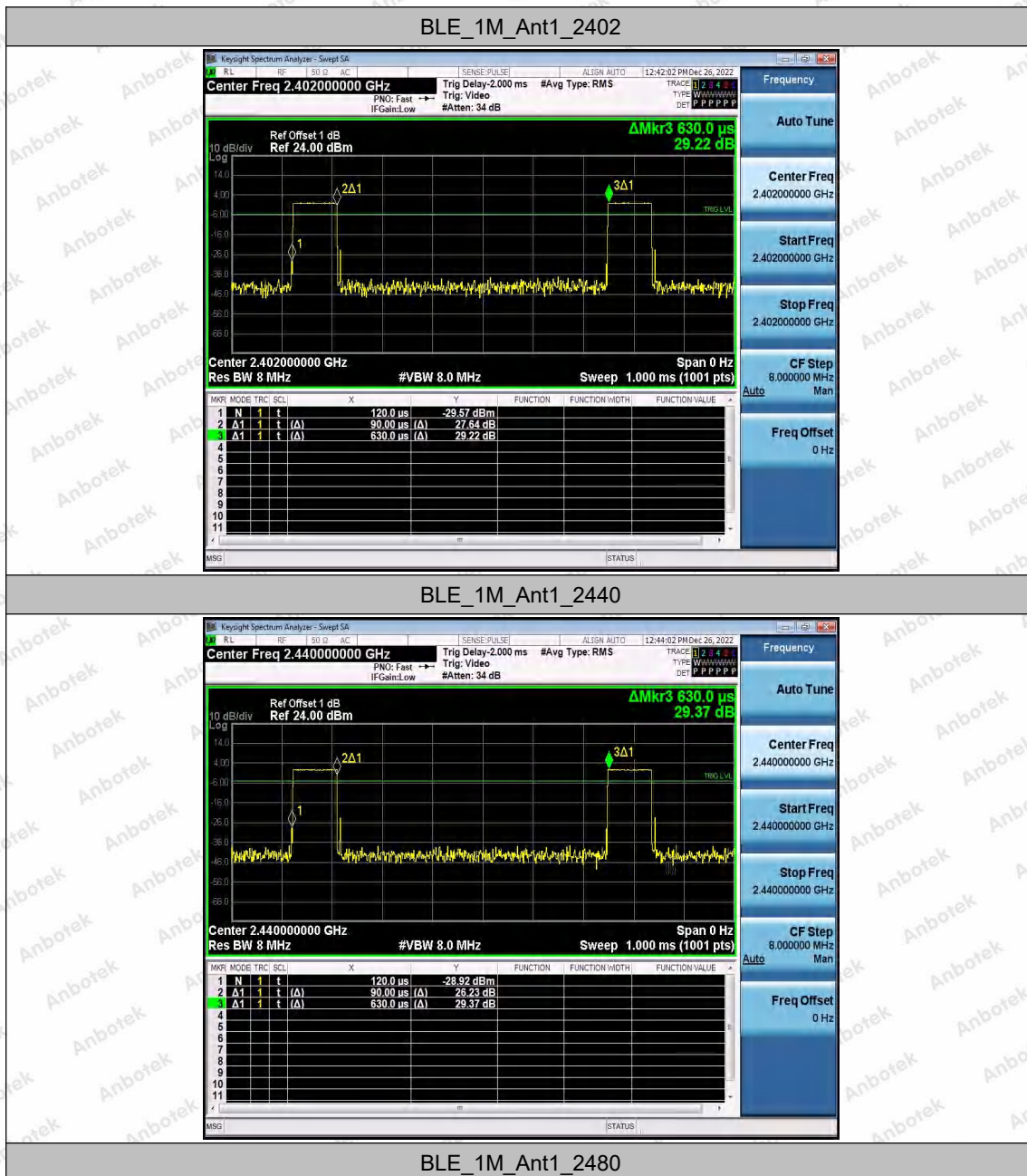
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.09	0.63	14.29	8.45
		2440	0.09	0.63	14.29	8.45
		2480	0.09	0.63	14.29	8.45
BLE_2M	Ant1	2402	0.06	0.63	9.52	10.21
		2440	0.06	0.63	9.52	10.21
		2480	0.06	0.63	9.52	10.21



Test Graphs



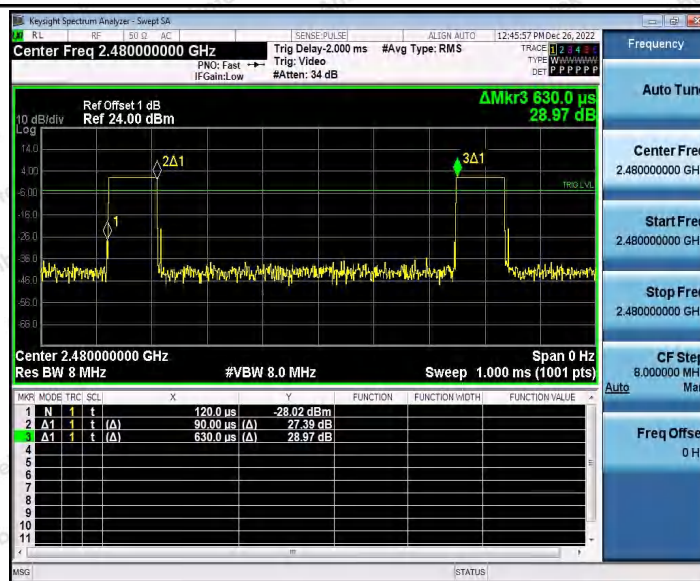
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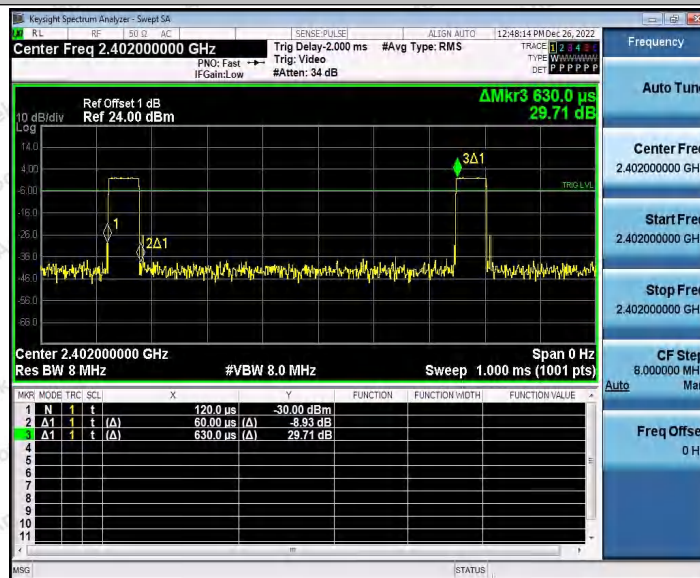


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

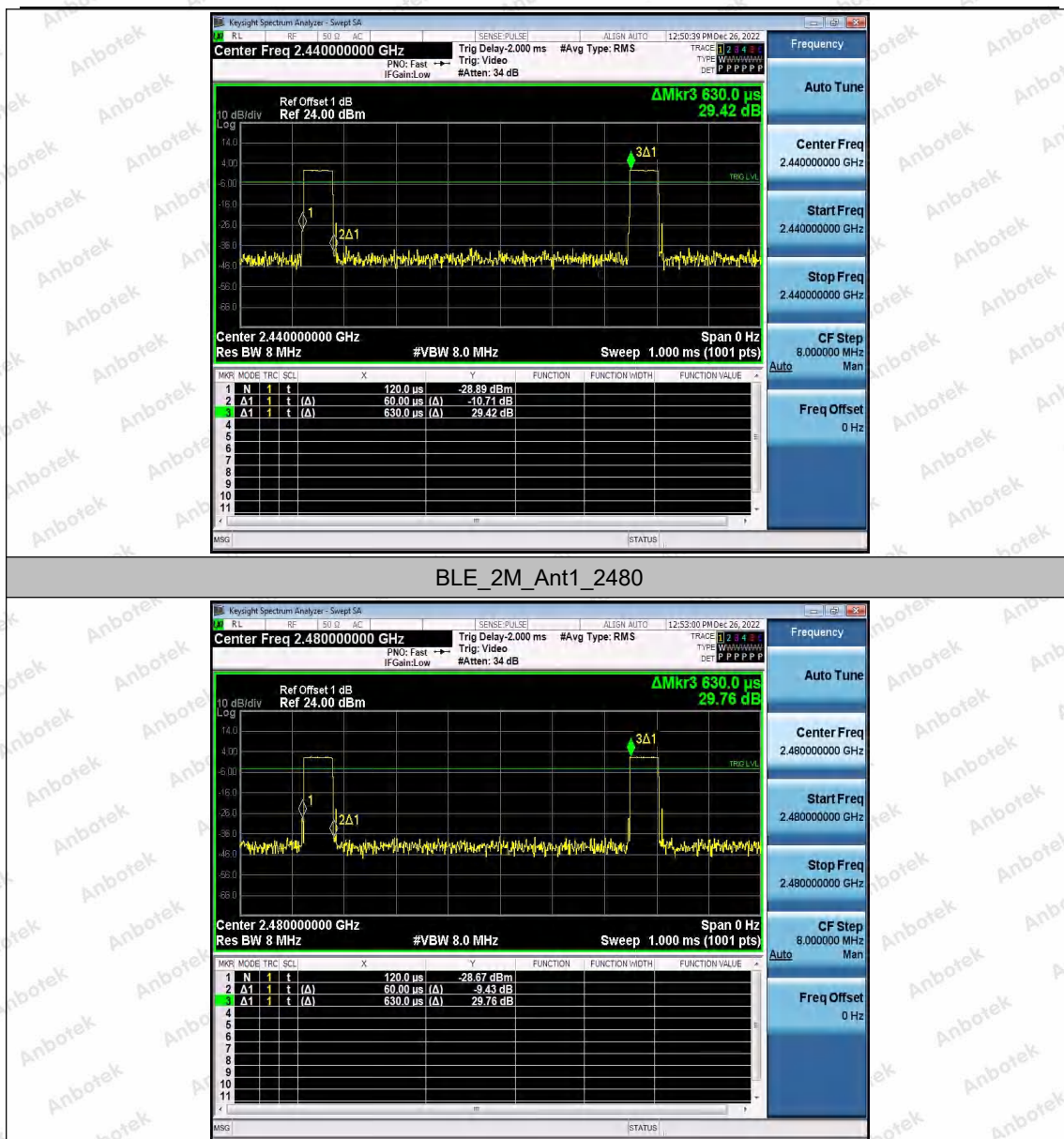
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