

Appendix Test Data

Report No.:	18220WC30123001	Test Sample No.:	1-2-2
Start Test Date:	2023.06.20	Finish Test Date:	2023.07.11
Test Engineer:	RICK Luo	Auditor:	Edward Pan
Temperature:	25.9°C	Relative Humidity:	49%
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	0.564	2401.676	2402.240	0.5	PASS
		2440	0.572	2439.668	2440.240	0.5	PASS
		2480	0.568	2479.668	2480.236	0.5	PASS
BLE_2M	Ant1	2402	0.848	2401.432	2402.280	0.5	PASS
		2440	0.852	2439.428	2440.280	0.5	PASS
		2480	0.836	2479.432	2480.268	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	1.0460	2401.5035	2402.5495
		2440	1.0468	2439.5031	2440.5499
		2480	1.0496	2479.5014	2480.5510
BLE_2M	Ant1	2402	2.0495	2401.0056	2403.0551
		2440	2.0511	2439.0048	2441.0559
		2480	2.0519	2479.0050	2481.0569



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 C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	6.13	≤30	PASS
		2440	5.98	≤30	PASS
		2480	6.01	≤30	PASS
BLE_2M	Ant1	2402	6.11	≤30	PASS
		2440	5.97	≤30	PASS
		2480	5.99	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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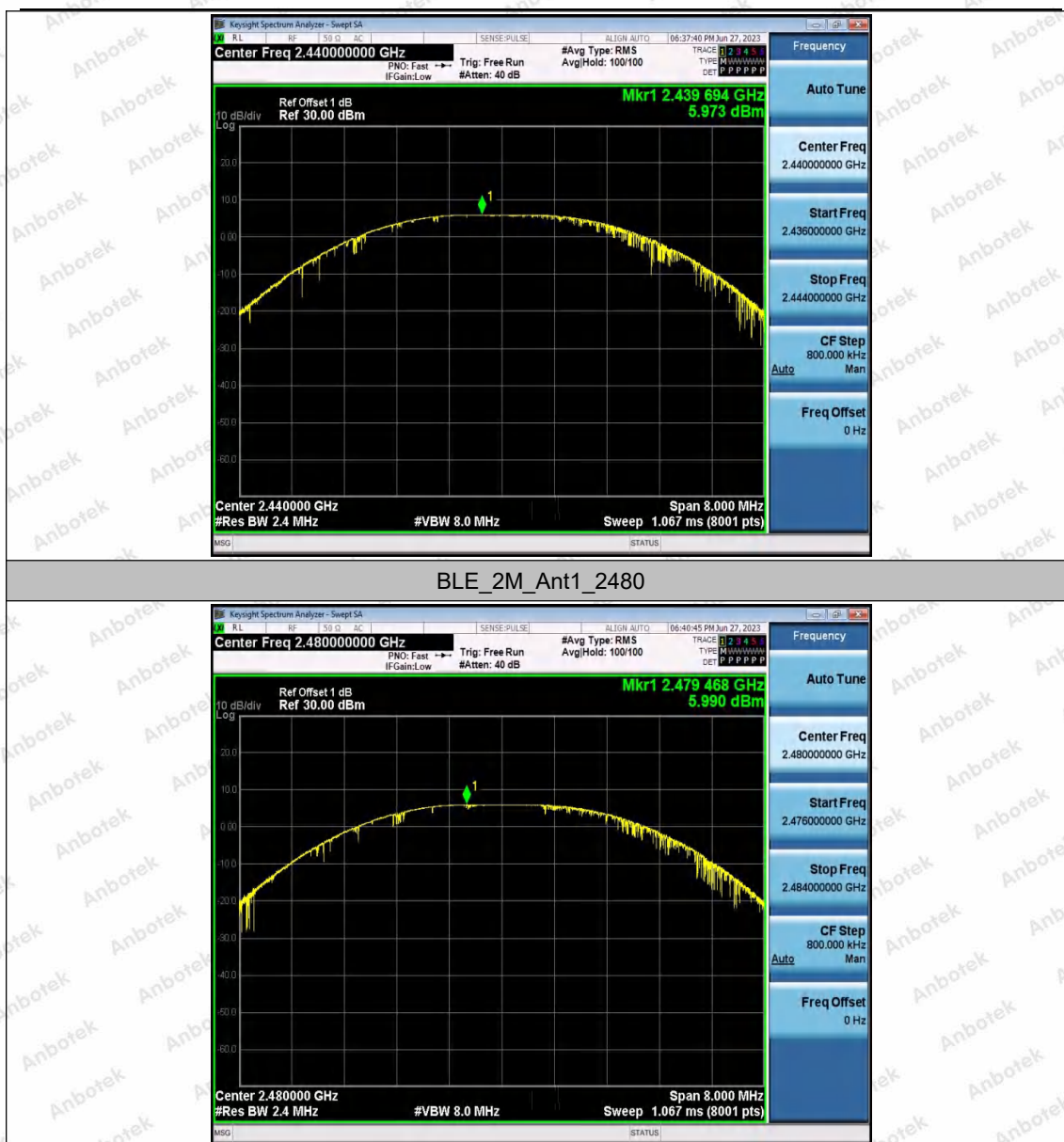


BLE_2M_Ant1_2402



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	-10.75	≤8.00	PASS
		2440	-10.86	≤8.00	PASS
		2480	-10.8	≤8.00	PASS
BLE_2M	Ant1	2402	-12.59	≤8.00	PASS
		2440	-12.7	≤8.00	PASS
		2480	-12.62	≤8.00	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

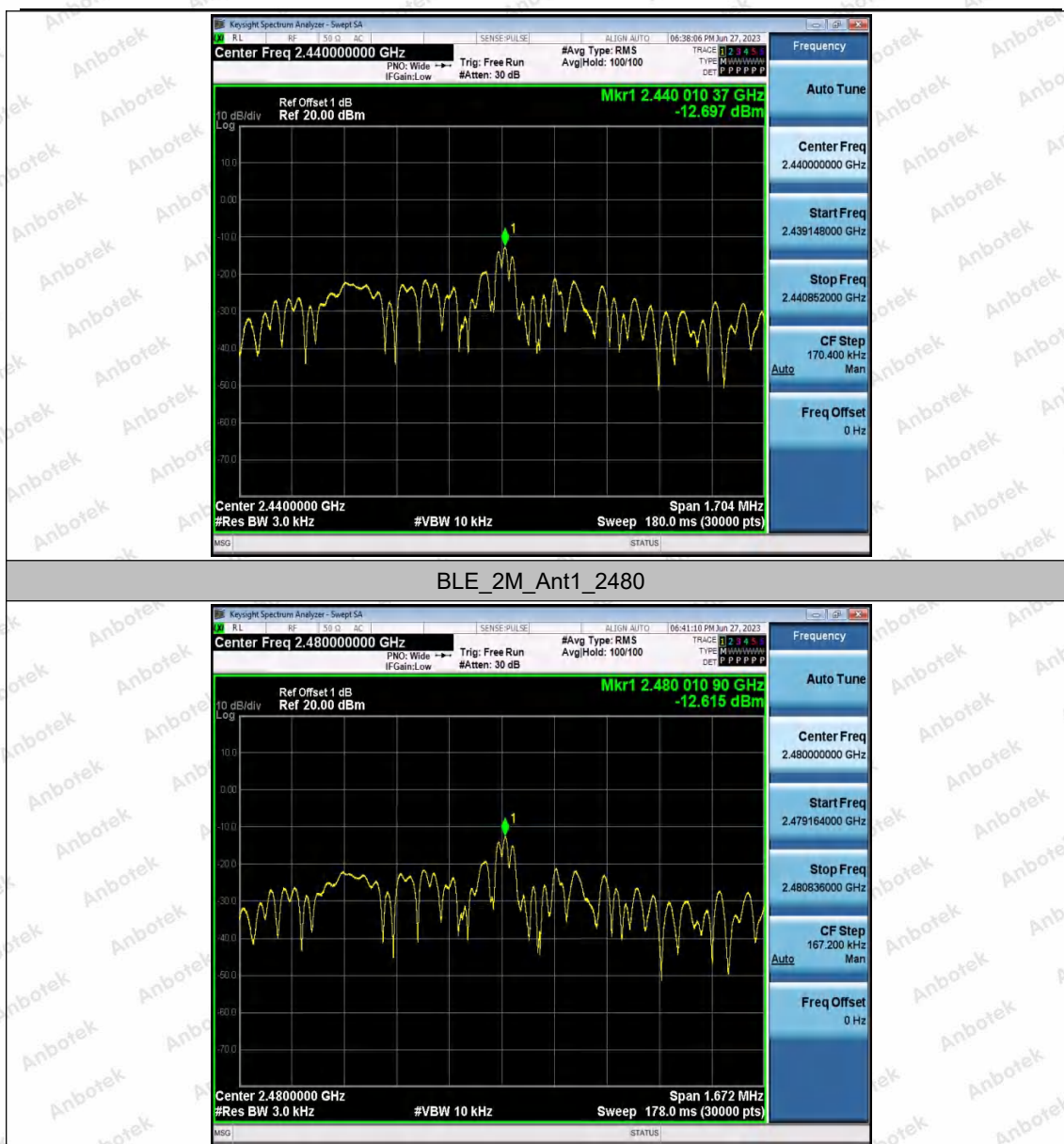
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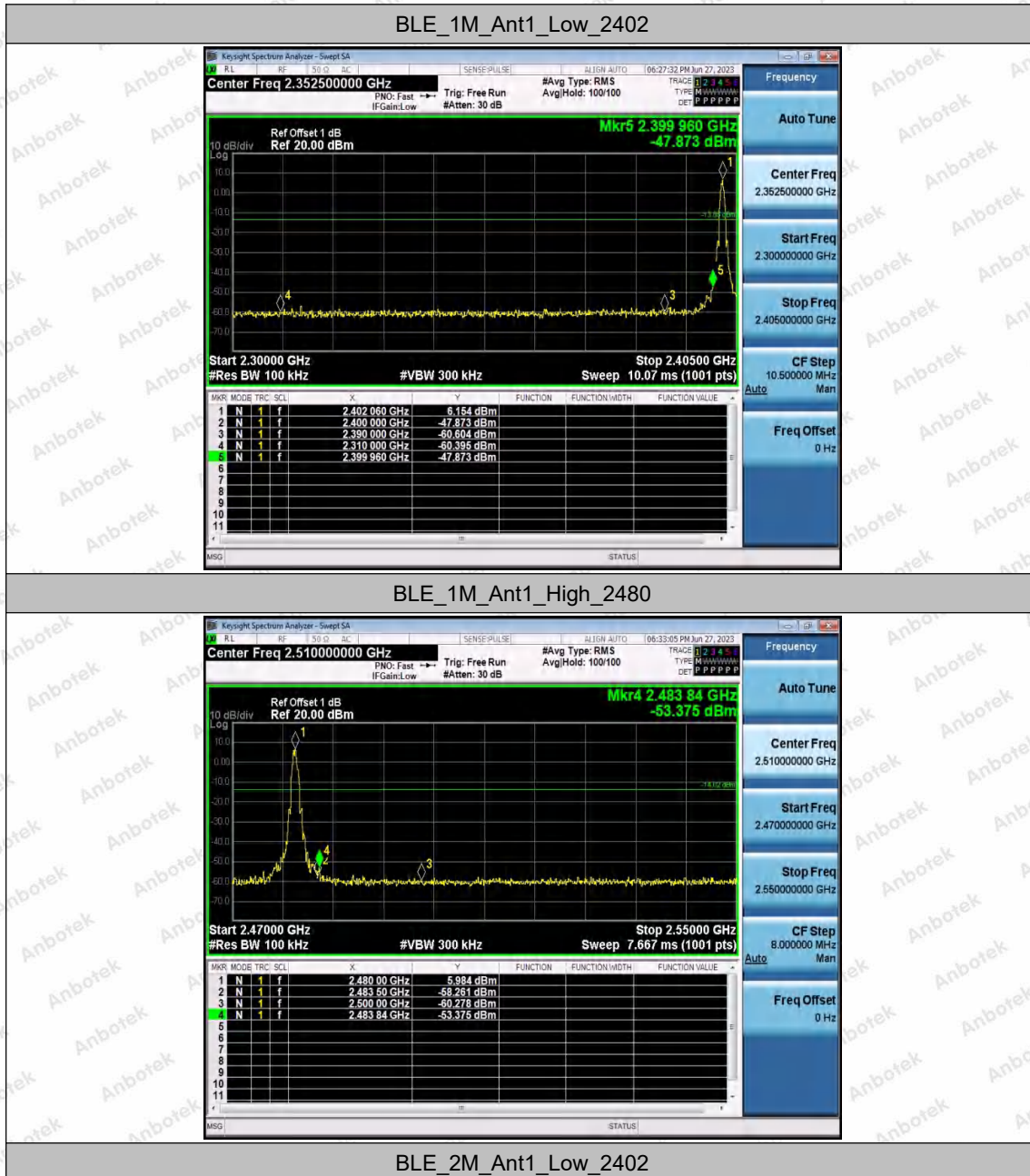
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.15	-47.87	≤-13.85	PASS
		High	2480	5.98	-53.38	≤-14.02	PASS
BLE_2M	Ant1	Low	2402	6.06	-26.34	≤-13.94	PASS
		High	2480	5.13	-53.13	≤-14.87	PASS



Test Graphs



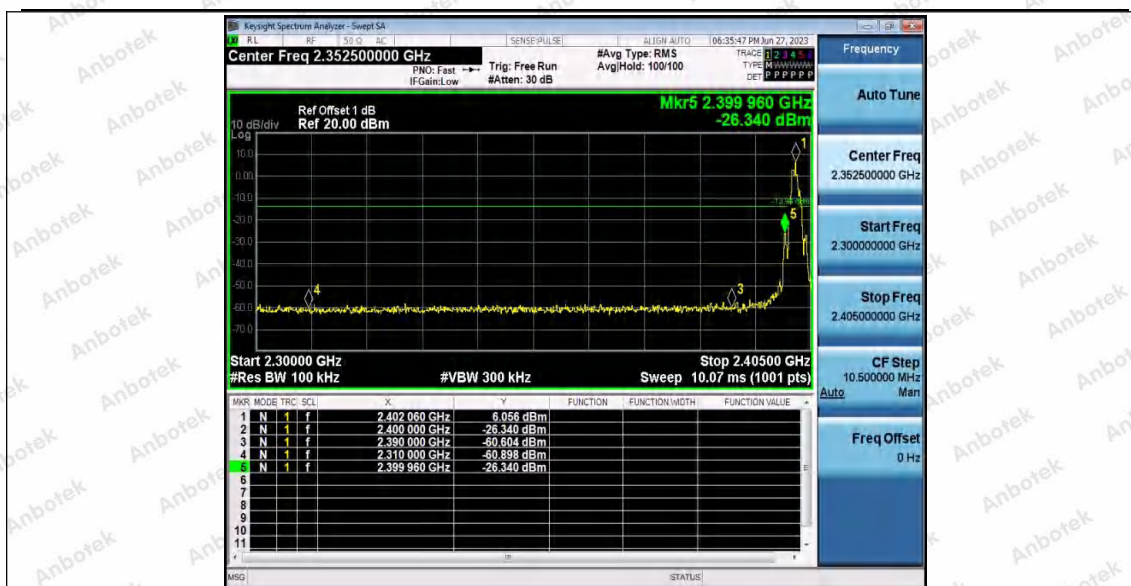
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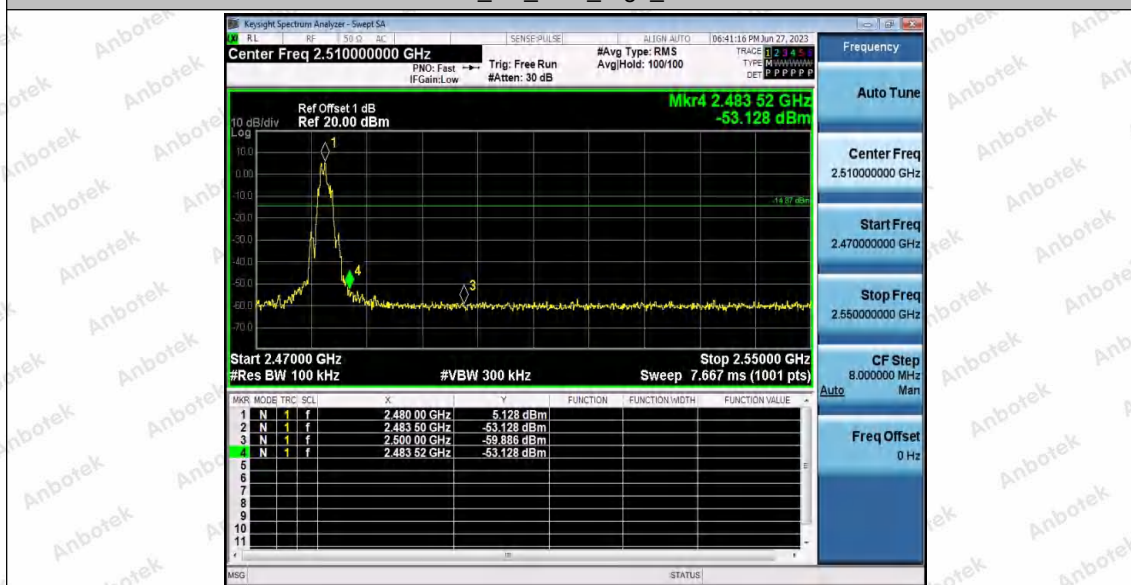


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BLE_2M_Ant1_High_2480



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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	6.06	6.06	---	PASS
			30~1000	6.06	-68.74	≤-13.94	PASS
			1000~26500	6.06	-49.06	≤-13.94	PASS
		2440	Reference	5.91	5.91	---	PASS
			30~1000	5.91	-68.92	≤-14.09	PASS
			1000~26500	5.91	-48.19	≤-14.09	PASS
		2480	Reference	5.95	5.95	---	PASS
			30~1000	5.95	-69.05	≤-14.05	PASS
			1000~26500	5.95	-45.96	≤-14.05	PASS
BLE_2M	Ant1	2402	Reference	6.02	6.02	---	PASS
			30~1000	6.02	-68.51	≤-13.98	PASS
			1000~26500	6.02	-53.01	≤-13.98	PASS
		2440	Reference	5.86	5.86	---	PASS
			30~1000	5.86	-69.46	≤-14.14	PASS
			1000~26500	5.86	-44.69	≤-14.14	PASS
		2480	Reference	5.91	5.91	---	PASS
			30~1000	5.91	-69.46	≤-14.09	PASS
			1000~26500	5.91	-48.97	≤-14.09	PASS

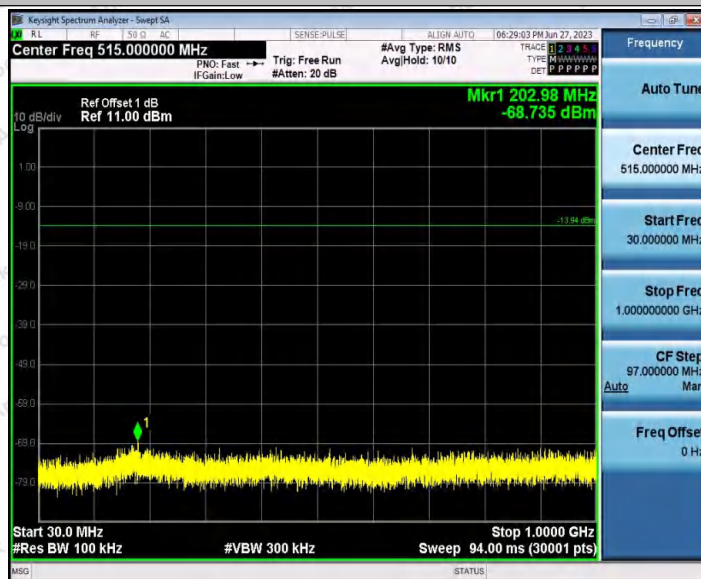


Test Graphs

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

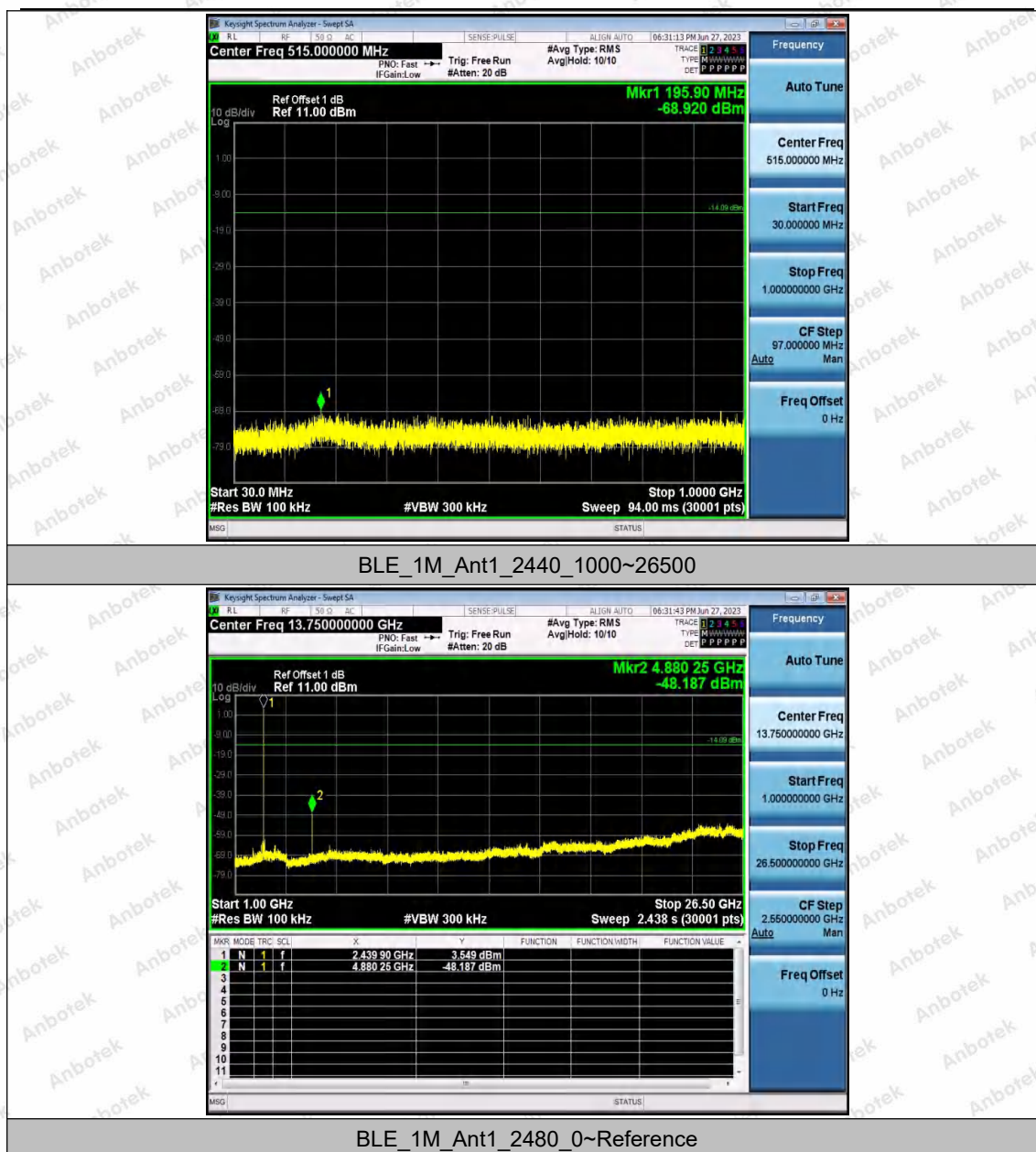
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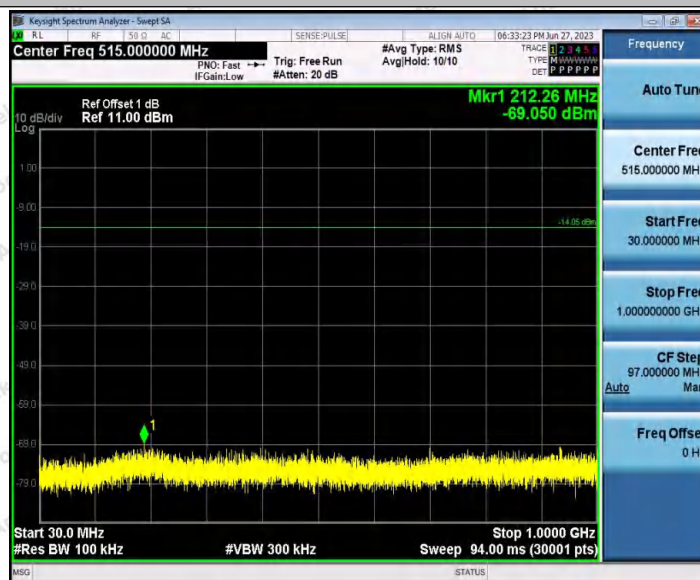


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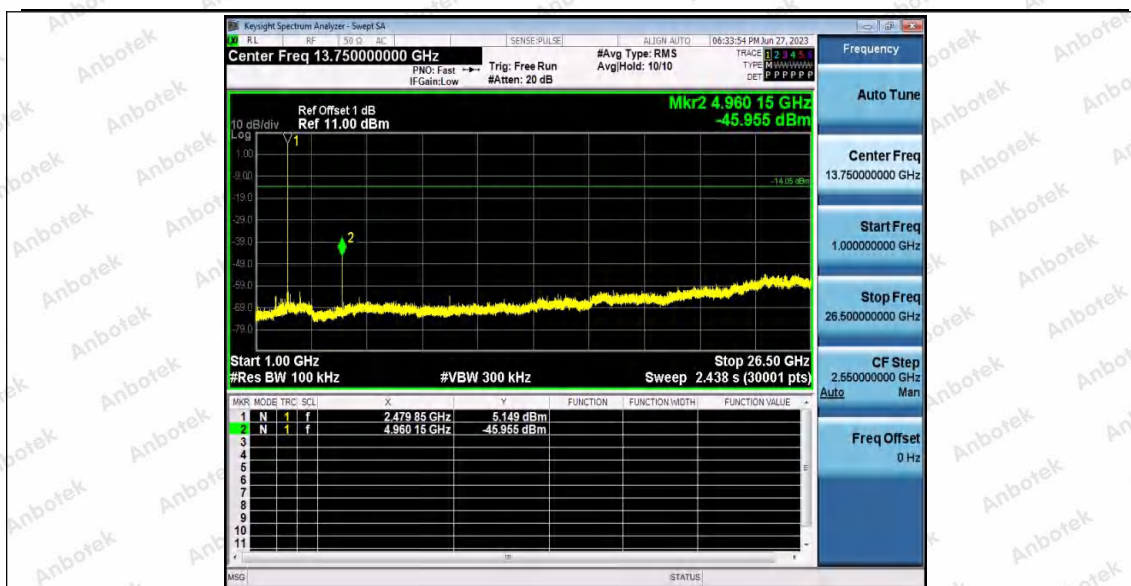


BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



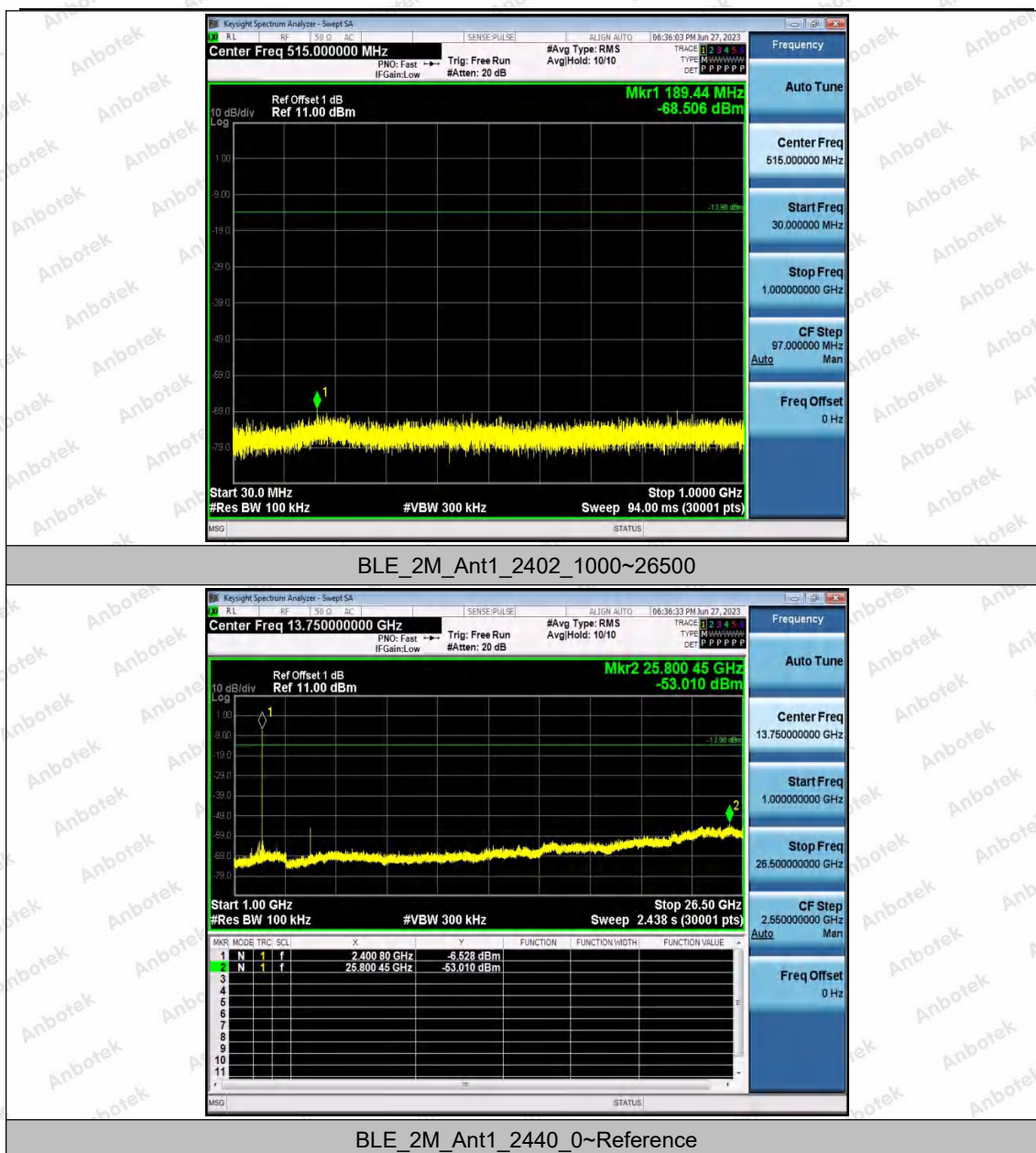


BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000





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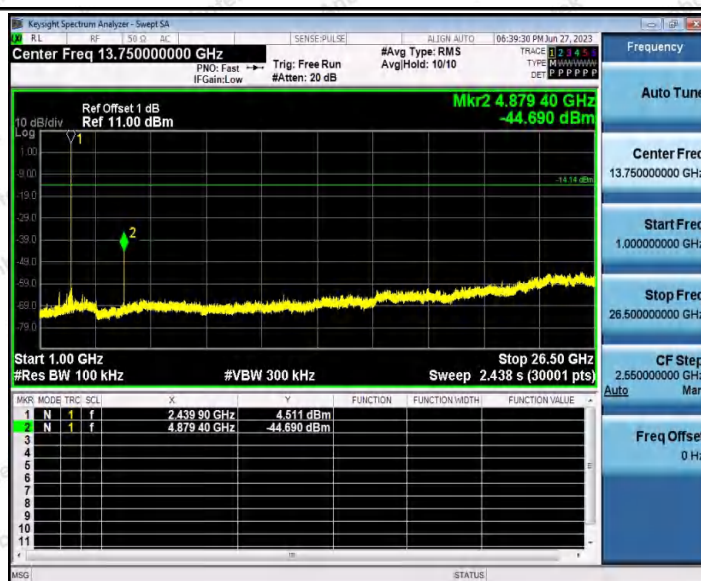
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000

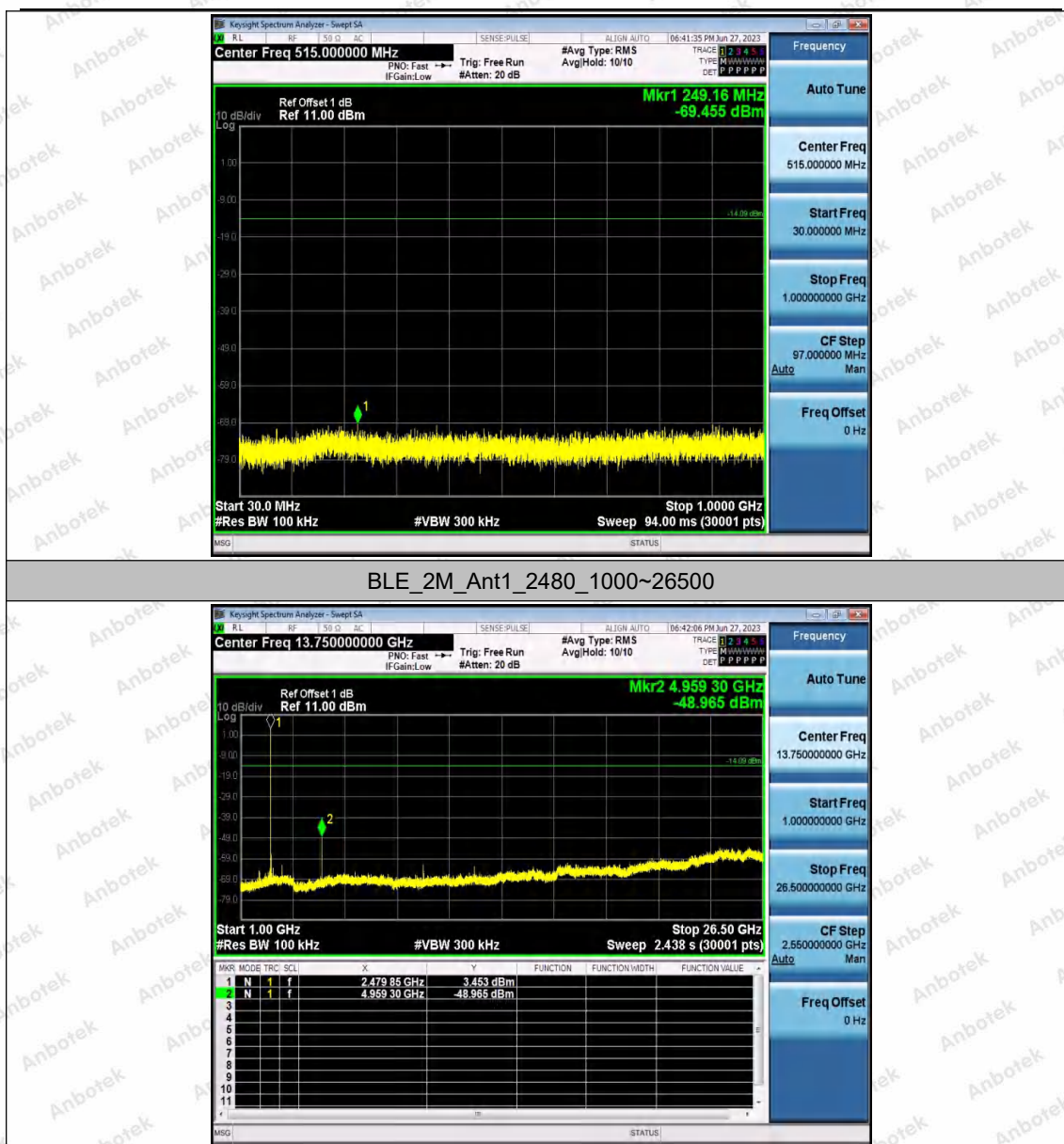
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Appendix G: Duty Cycle

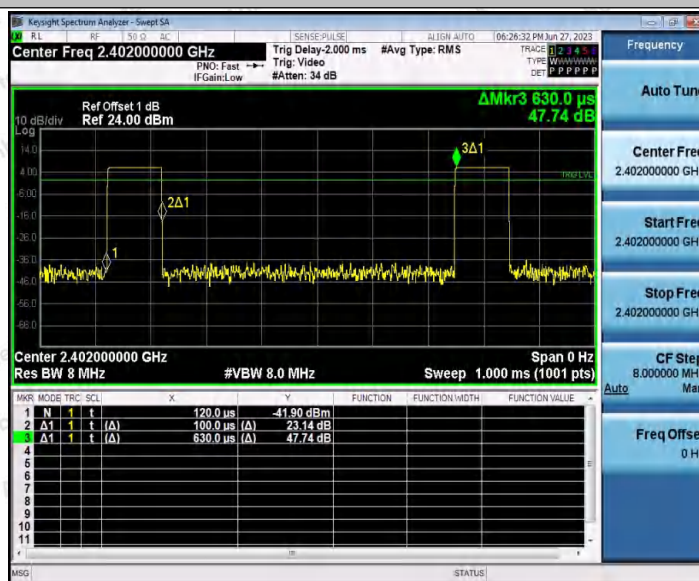
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.10	0.63	15.87	7.99
		2440	0.10	0.63	15.87	7.99
		2480	0.10	0.63	15.87	7.99
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

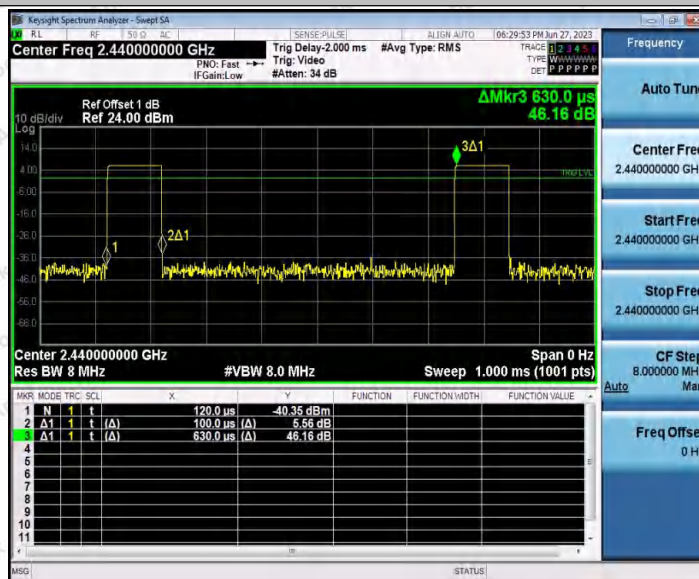


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

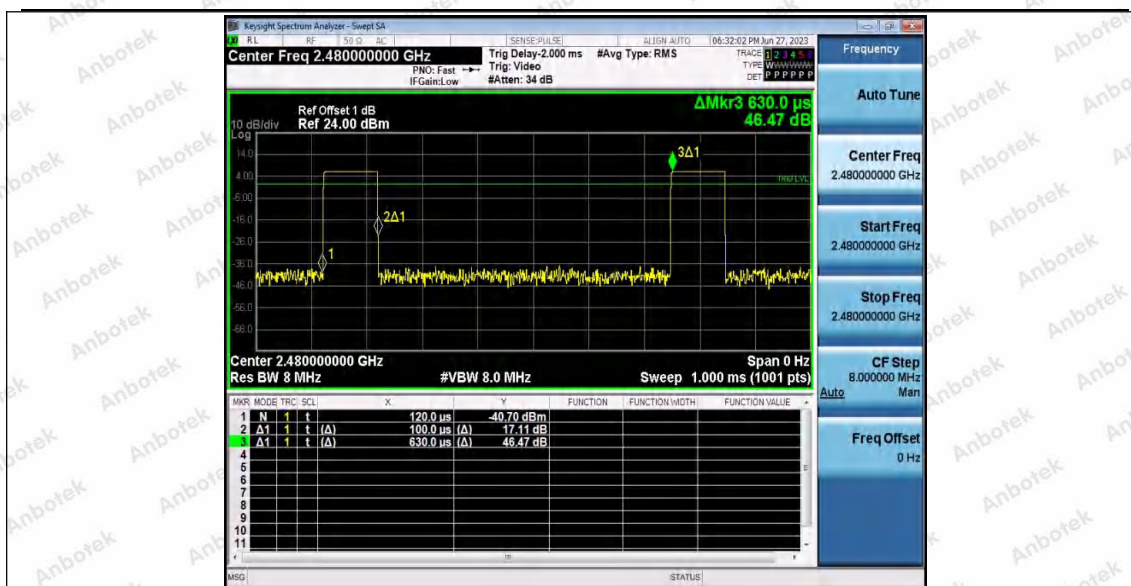
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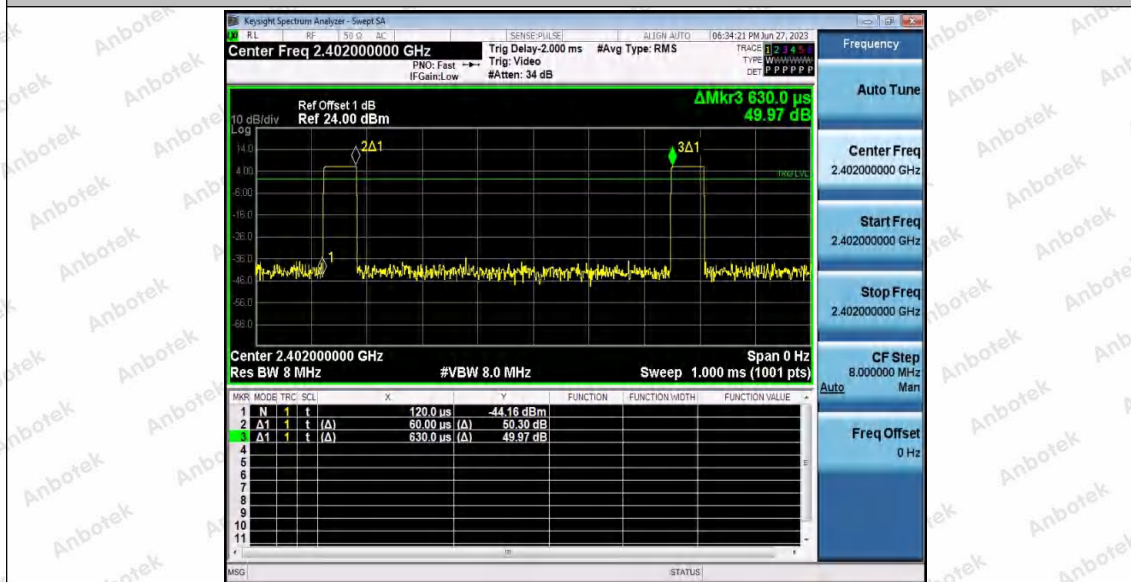


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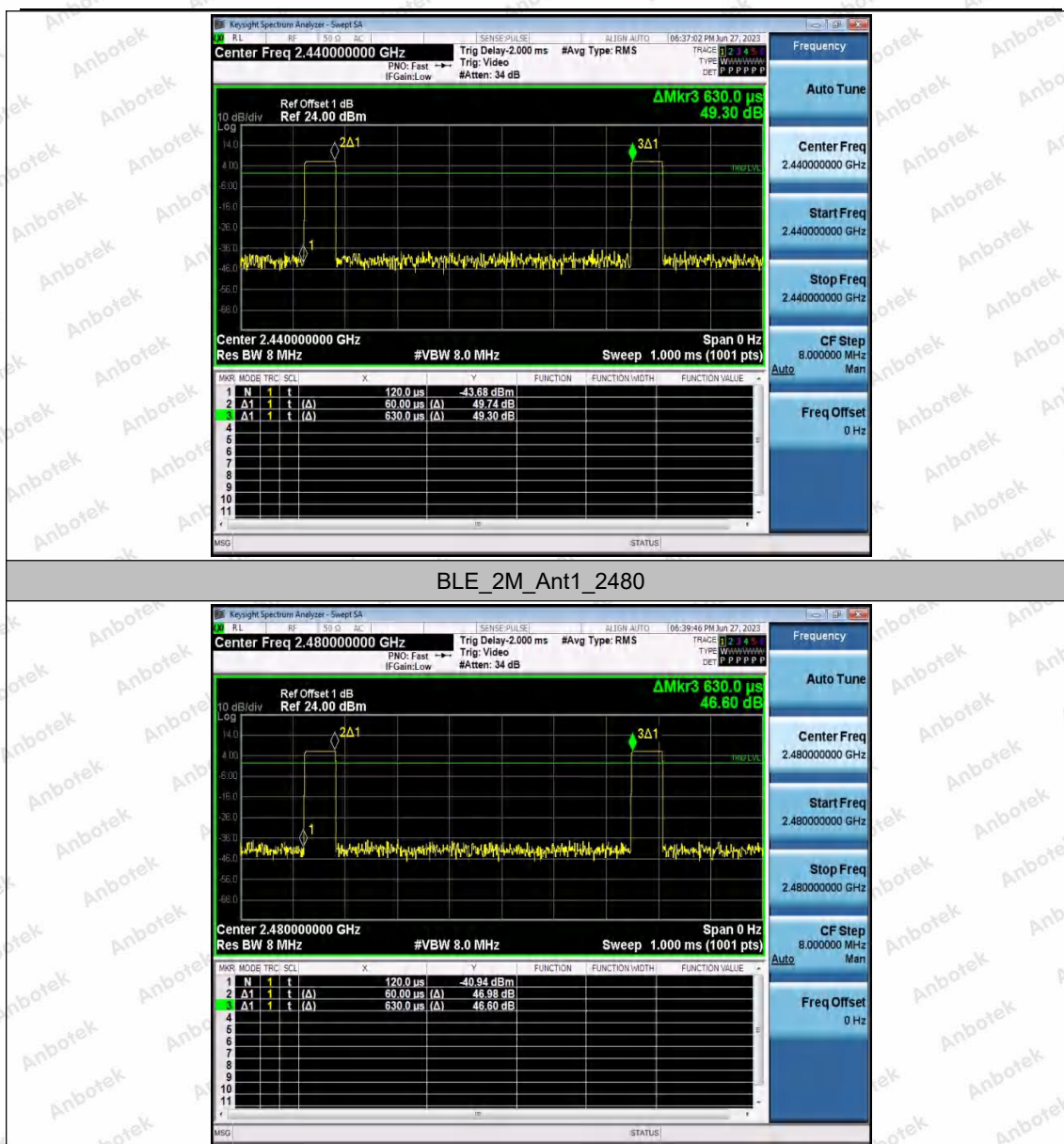


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---End---

