

Appendix Test Data

Report No.:	18220WC201895	Test Sample No.:	1-2-2
Start Test Date:	2022.8.17	Finish Test Date:	2022.8.25
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	26.3°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	0.684	2401.612	2402.296	0.5	PASS
		2440	0.628	2439.632	2440.260	0.5	PASS
		2480	0.652	2479.636	2480.288	0.5	PASS
BLE_2M	Ant1	2402	1.060	2401.444	2402.504	0.5	PASS
		2440	1.284	2439.292	2440.576	0.5	PASS
		2480	1.104	2479.424	2480.528	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	2401.4485	2402.4751
		2440	1.0236	2439.4464	2440.4700
		2480	1.0192	2479.4460	2480.4652
BLE_2M	Ant1	2402	2.0611	2400.9422	2403.0033
		2440	2.0506	2438.9508	2441.0014
		2480	2.0384	2478.9464	2480.9848

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Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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Appendix C: Maximum conducted output power

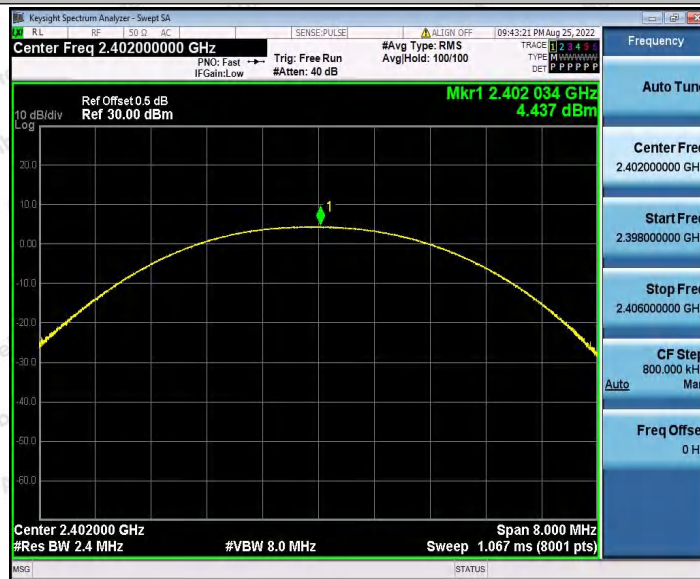
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	4.44	≤30	PASS
		2440	0.78	≤30	PASS
		2480	0.92	≤30	PASS
BLE_2M	Ant1	2402	4.48	≤30	PASS
		2440	1.01	≤30	PASS
		2480	1.07	≤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	-10.95	≤8.00	PASS
		2440	-14.6	≤8.00	PASS
		2480	-14.5	≤8.00	PASS
BLE_2M	Ant1	2402	-12.89	≤8.00	PASS
		2440	-16.41	≤8.00	PASS
		2480	-16.33	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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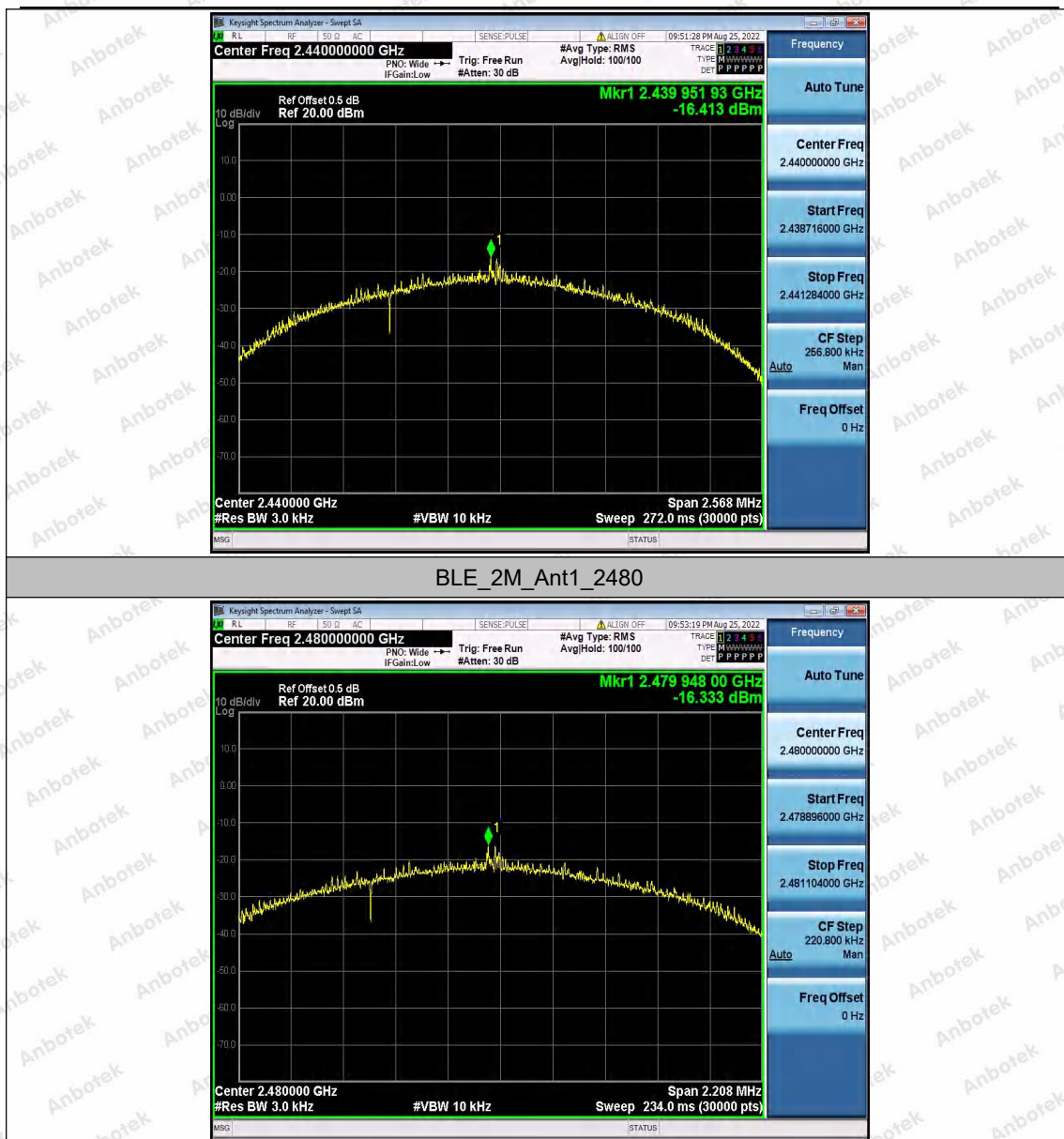


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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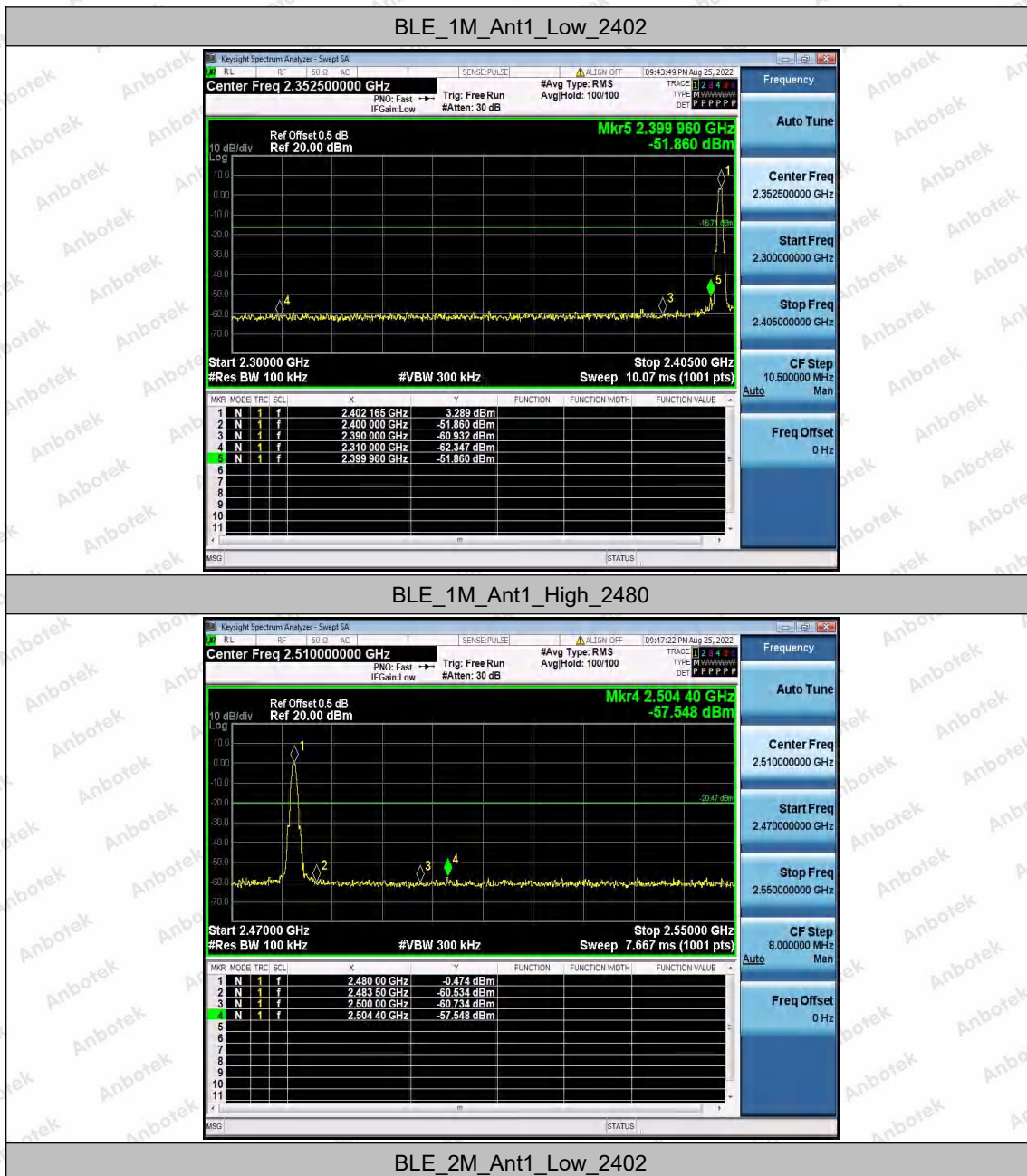
Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	3.29	-51.86	≤-16.71	PASS
		High	2480	-0.47	-57.55	≤-20.47	PASS
BLE_2M	Ant1	Low	2402	2.78	-44.6	≤-17.22	PASS
		High	2480	-1.23	-58.05	≤-21.23	PASS



Test Graphs



BLE_2M_Ant1_Low_2402

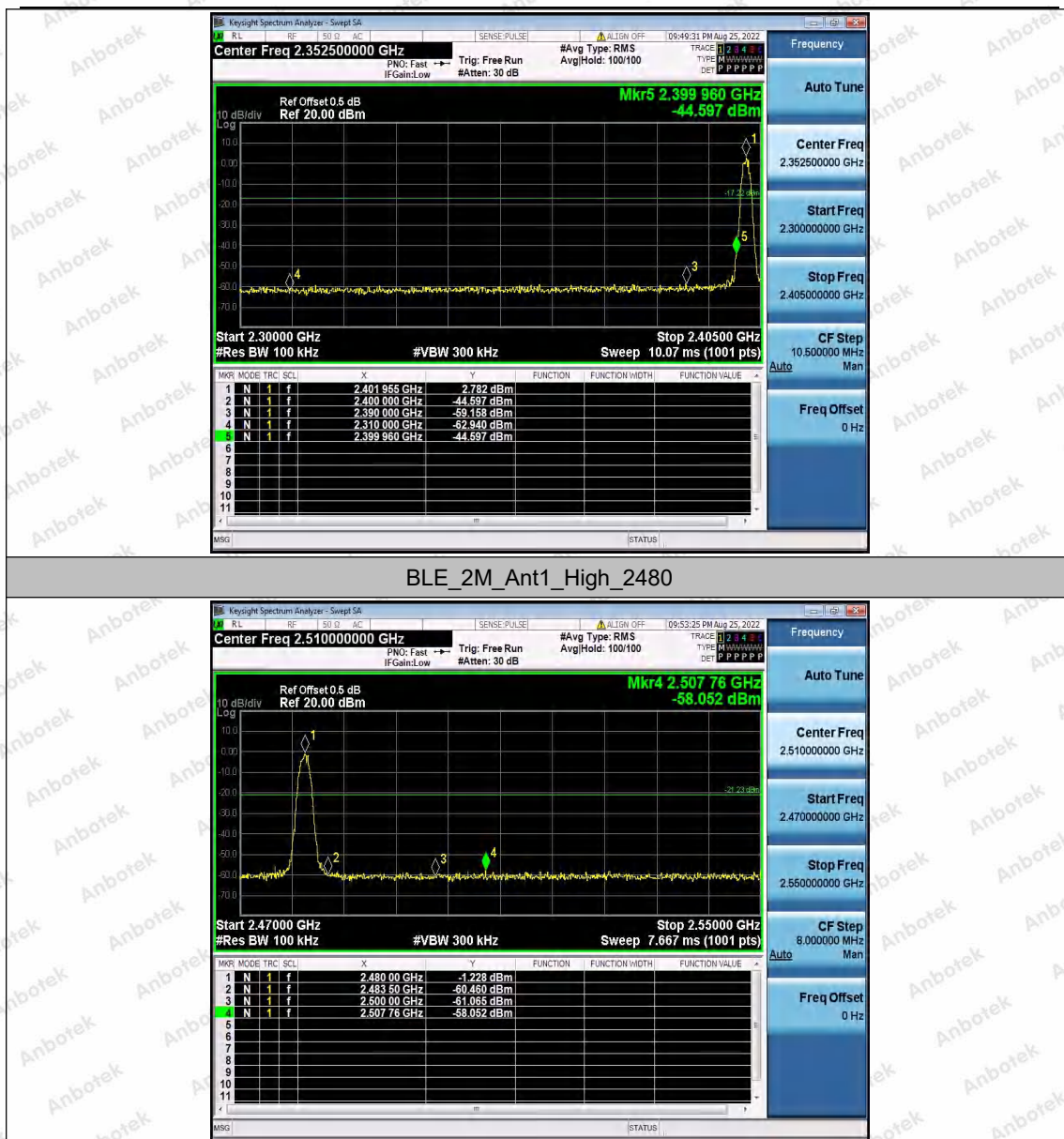
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.15	2.15	---	PASS
			30~1000	2.15	-68.91	≤-27.85	PASS
			1000~26500	2.15	-53.93	≤-27.85	PASS
		2440	Reference	-1.27	-1.27	---	PASS
			30~1000	-1.27	-68.91	≤-31.27	PASS
			1000~26500	-1.27	-54.35	≤-31.27	PASS
		2480	Reference	-1.76	-1.76	---	PASS
			30~1000	-1.76	-68.92	≤-31.76	PASS
			1000~26500	-1.76	-53.16	≤-31.76	PASS
BLE_2M	Ant1	2402	Reference	1.04	1.04	---	PASS
			30~1000	1.04	-68.66	≤-28.96	PASS
			1000~26500	1.04	-54.25	≤-28.96	PASS
		2440	Reference	-2.64	-2.64	---	PASS
			30~1000	-2.64	-68.64	≤-32.64	PASS
			1000~26500	-2.64	-54.35	≤-32.64	PASS
		2480	Reference	-3.23	-3.23	---	PASS
			30~1000	-3.23	-69.32	≤-33.23	PASS
			1000~26500	-3.23	-54	≤-33.23	PASS

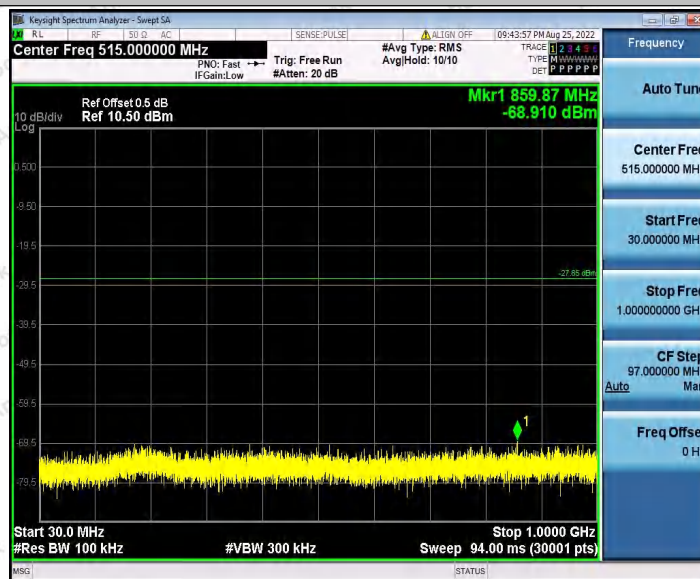


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

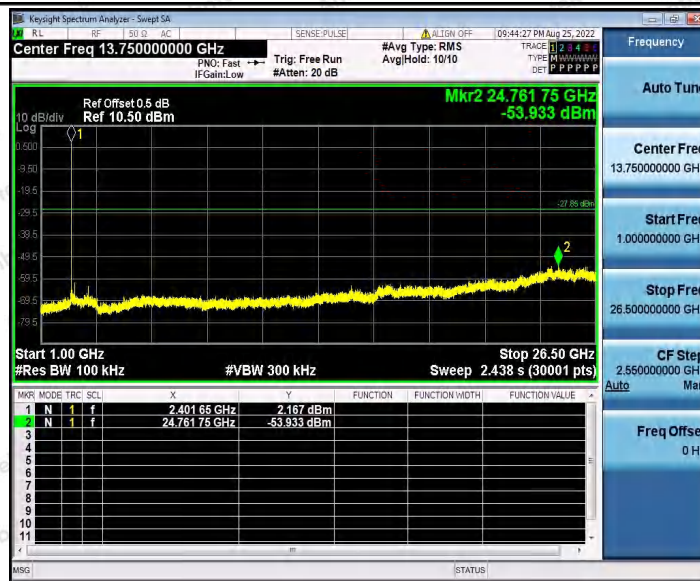
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

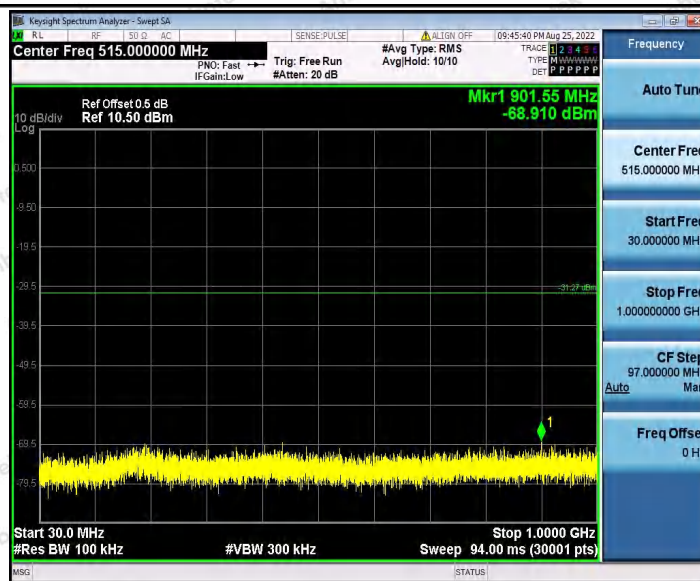
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

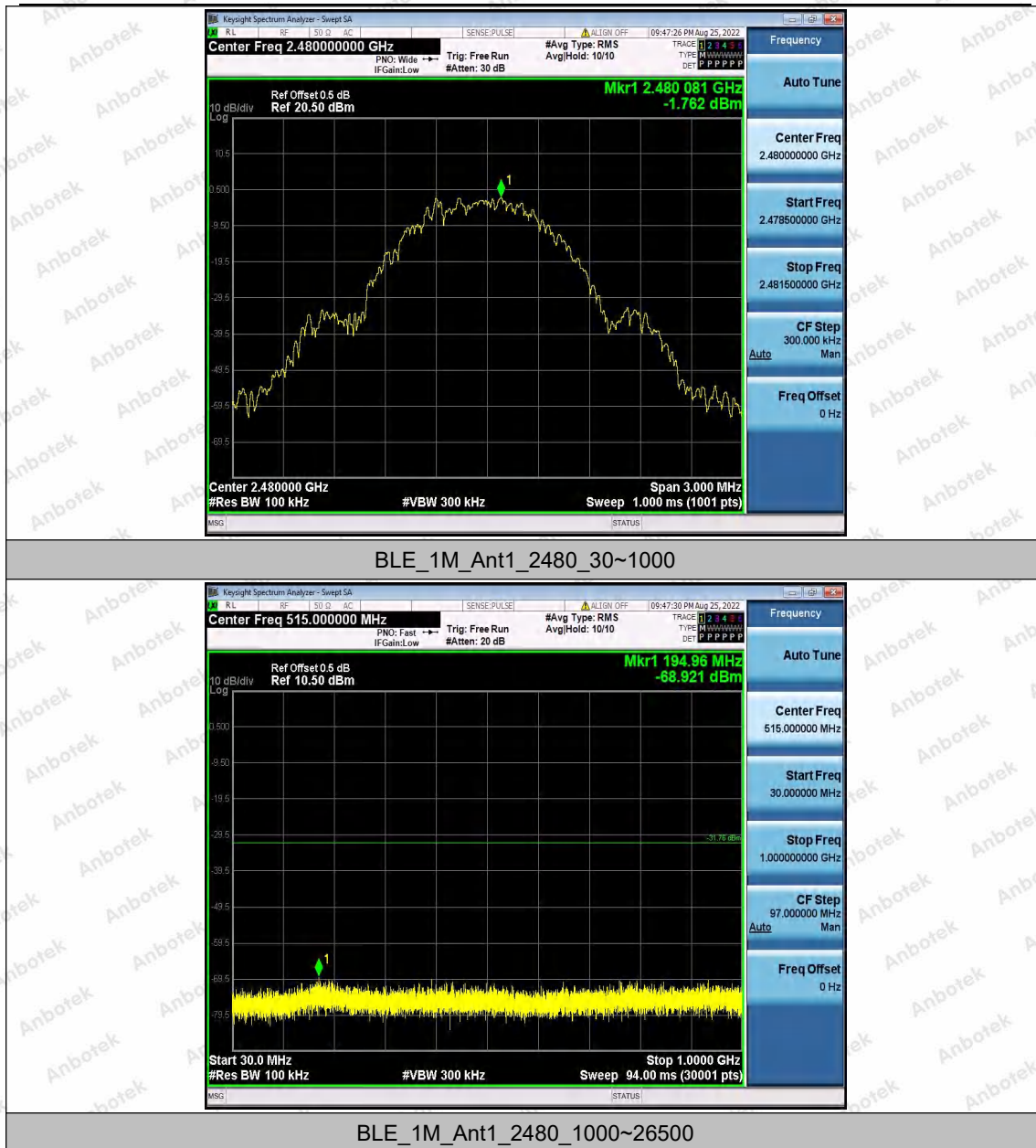
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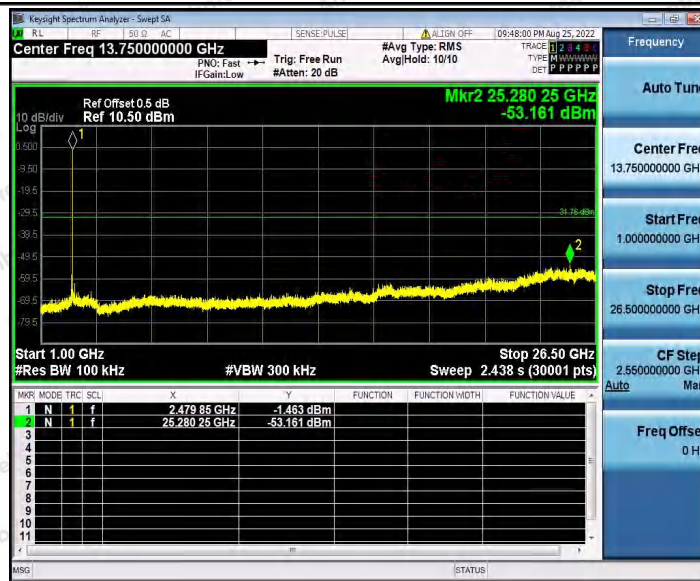
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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

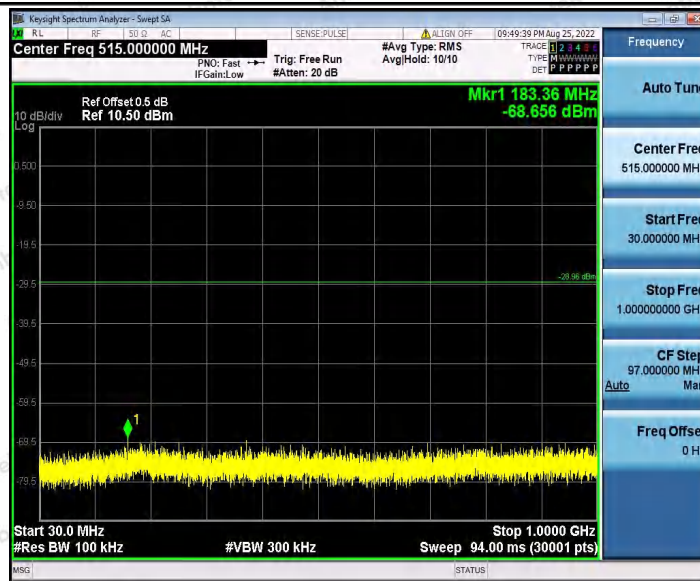
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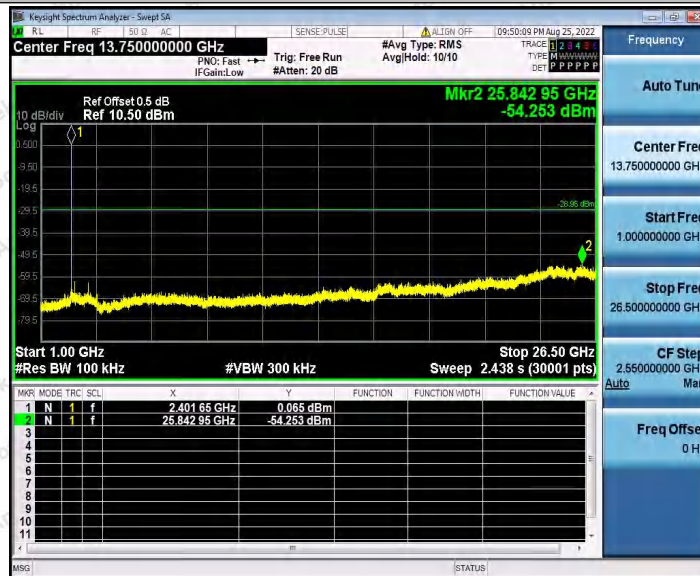


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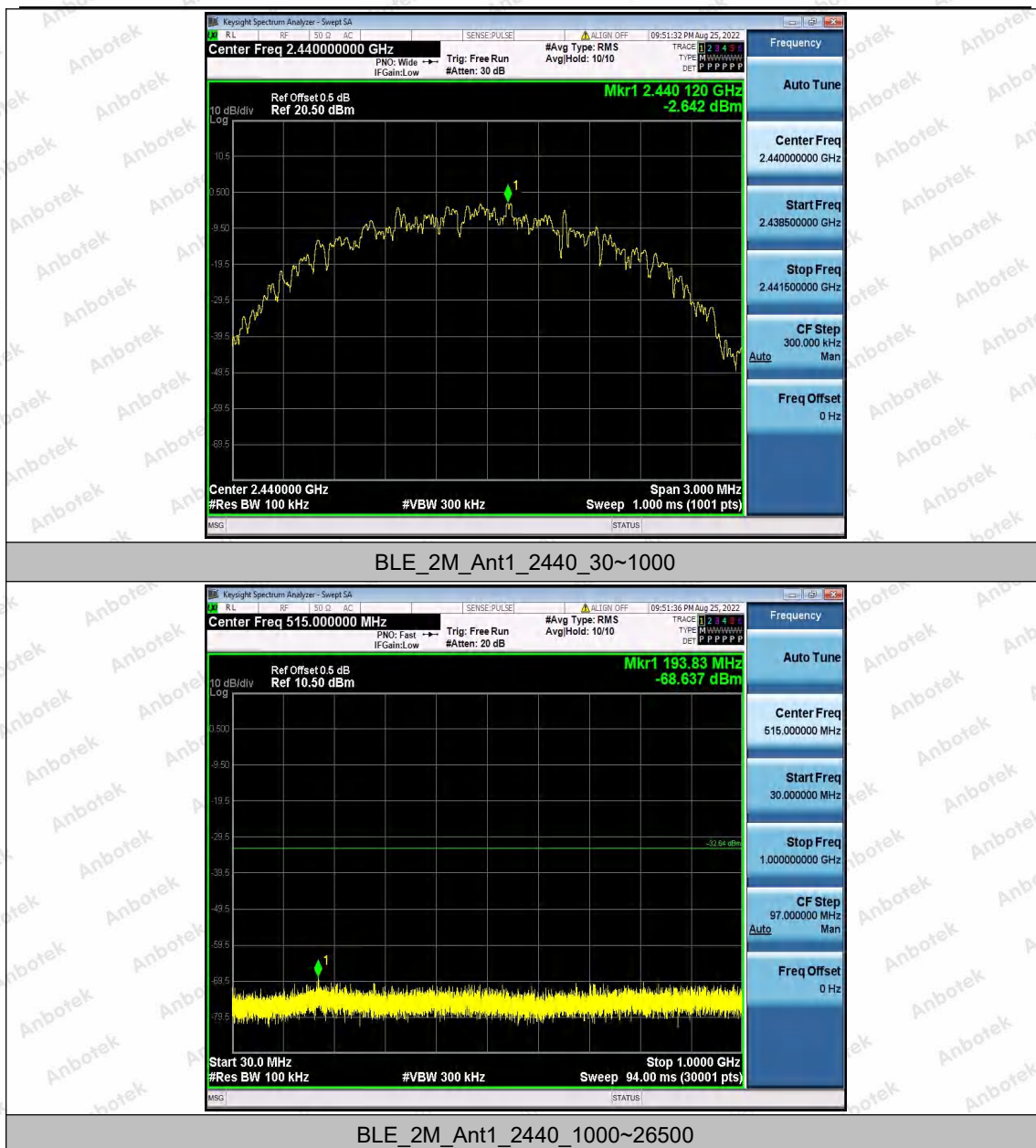


BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference





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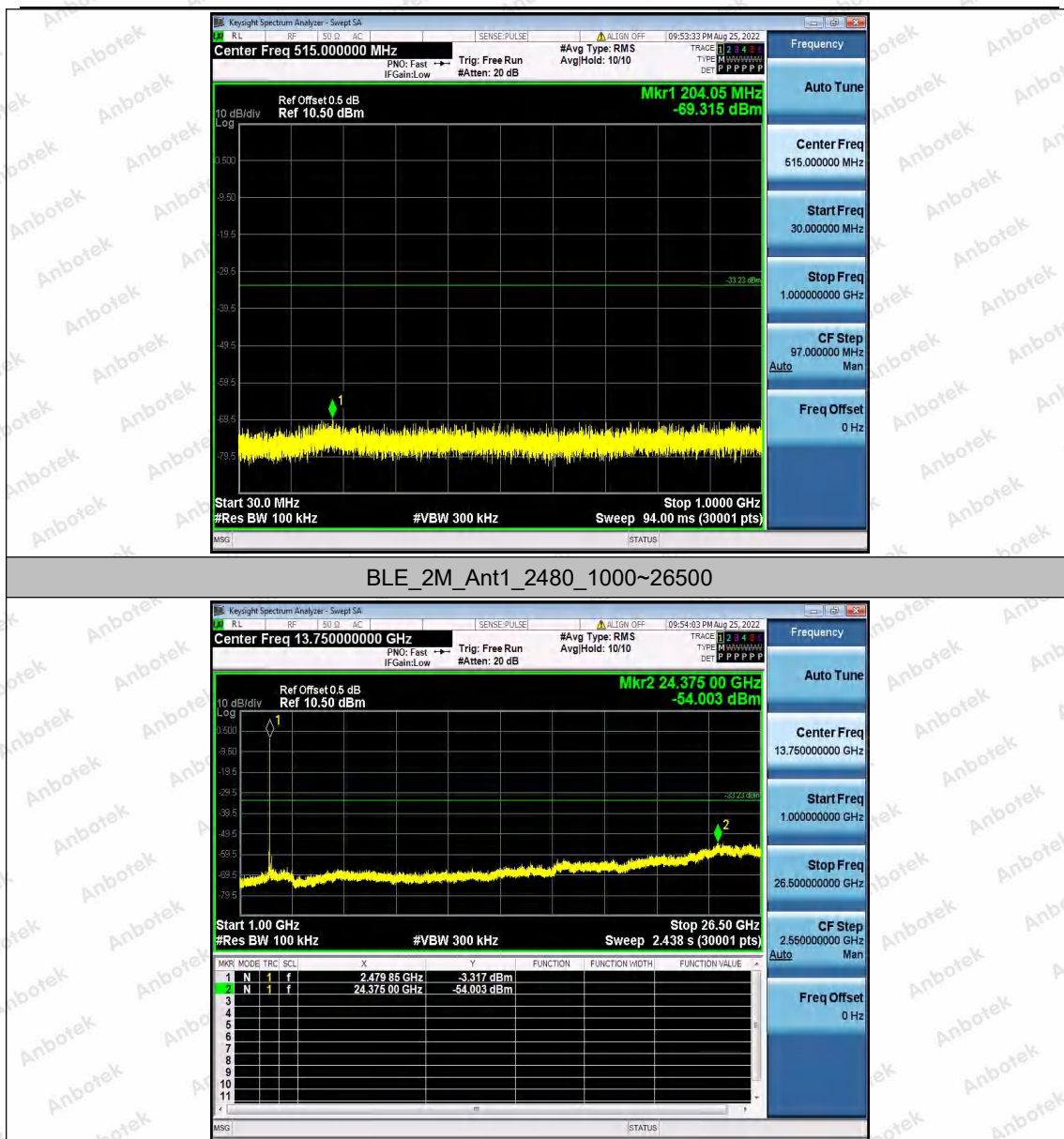


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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Appendix G: Duty Cycle

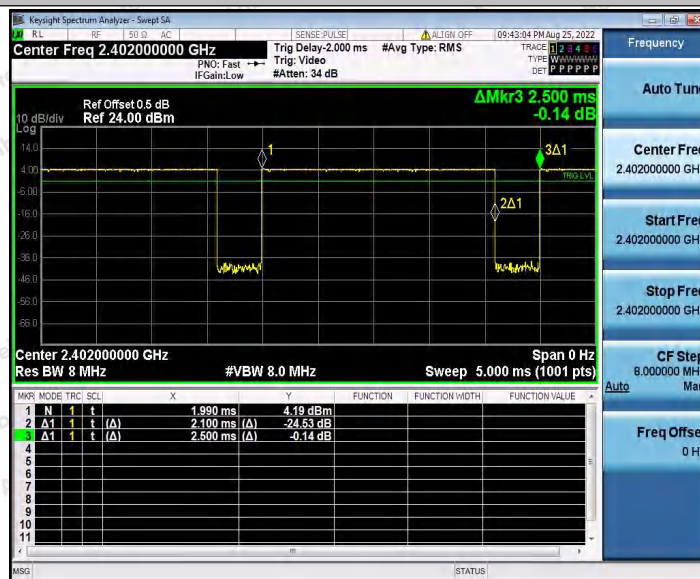
Test Result

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	1.87	56.68	2.47

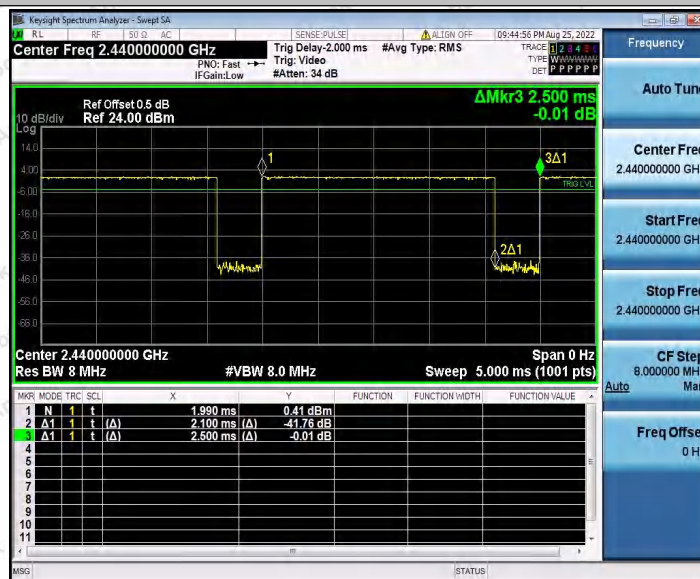


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

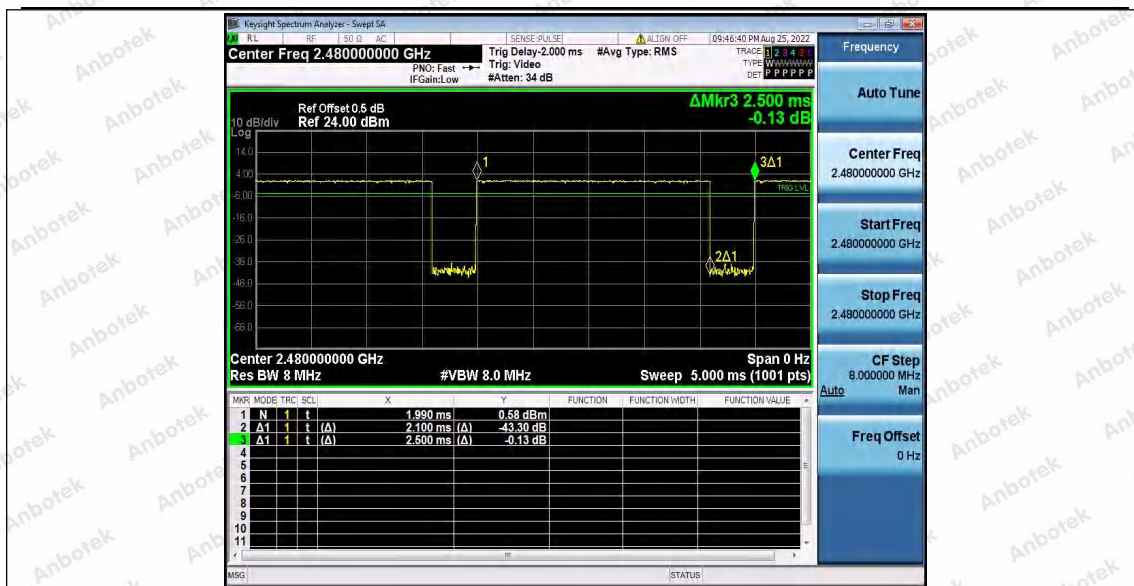
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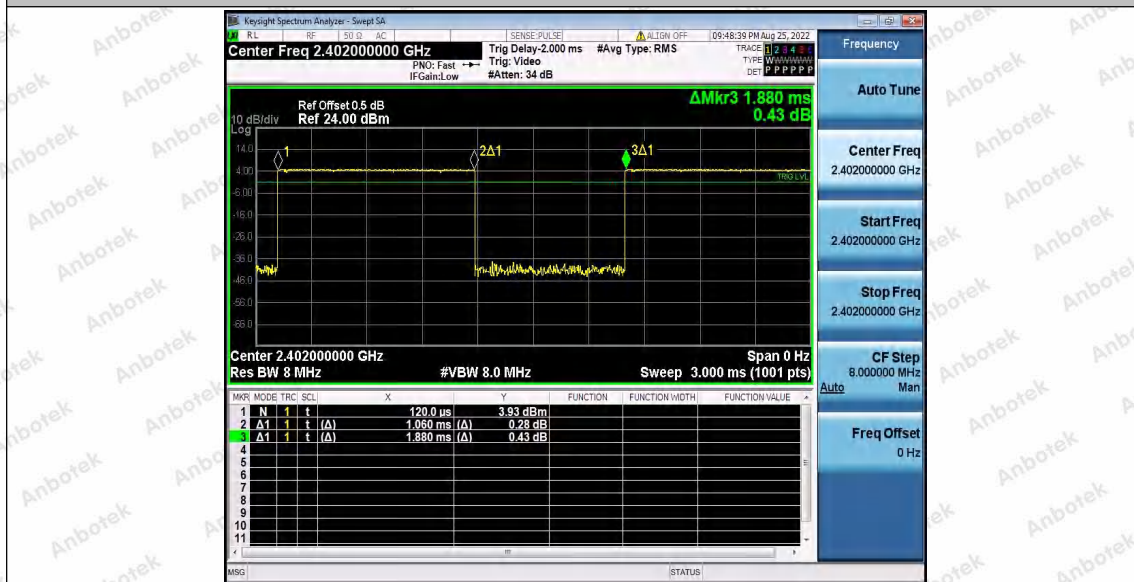


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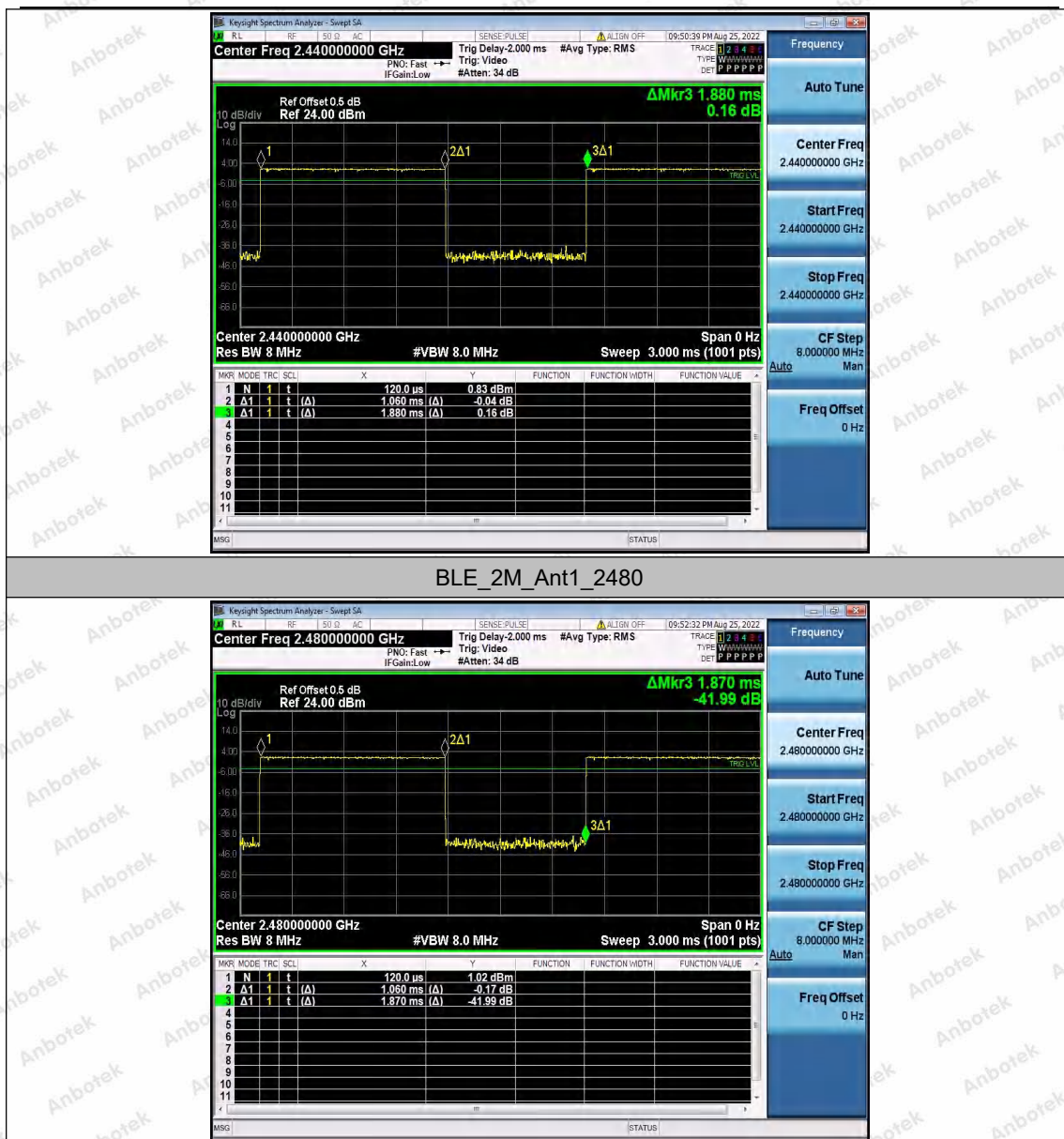


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---End---

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