

Appendix Test Data

Report No.:	18220WC20209101	Test Sample No.:	1-2-2
Start Test Date:	2022.9.16	Finish Test Date:	2022.10.09
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3C°	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	0.660	2401.648	2402.308	0.5	PASS
		2440	0.656	2439.660	2440.316	0.5	PASS
		2480	0.620	2479.656	2480.276	0.5	PASS
BLE_2M	Ant1	2402	1.172	2401.372	2402.544	0.5	PASS
		2440	1.140	2439.376	2440.516	0.5	PASS
		2480	1.120	2479.372	2480.492	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	1.0386	2401.4832	2402.5218
		2440	1.0544	2439.4773	2440.5317
		2480	1.0654	2479.4682	2480.5336
BLE_2M	Ant1	2402	2.0652	2400.9782	2403.0434
		2440	2.0592	2438.9808	2441.0400
		2480	2.0641	2478.9765	2481.0406



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	3.22	≤30	PASS
		2440	3.33	≤30	PASS
		2480	3.57	≤30	PASS
BLE_2M	Ant1	2402	3.31	≤30	PASS
		2440	3.37	≤30	PASS
		2480	3.42	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

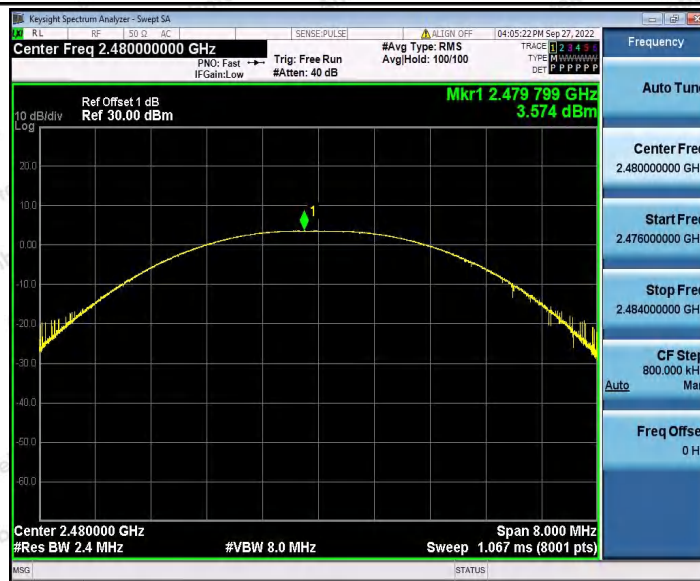
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

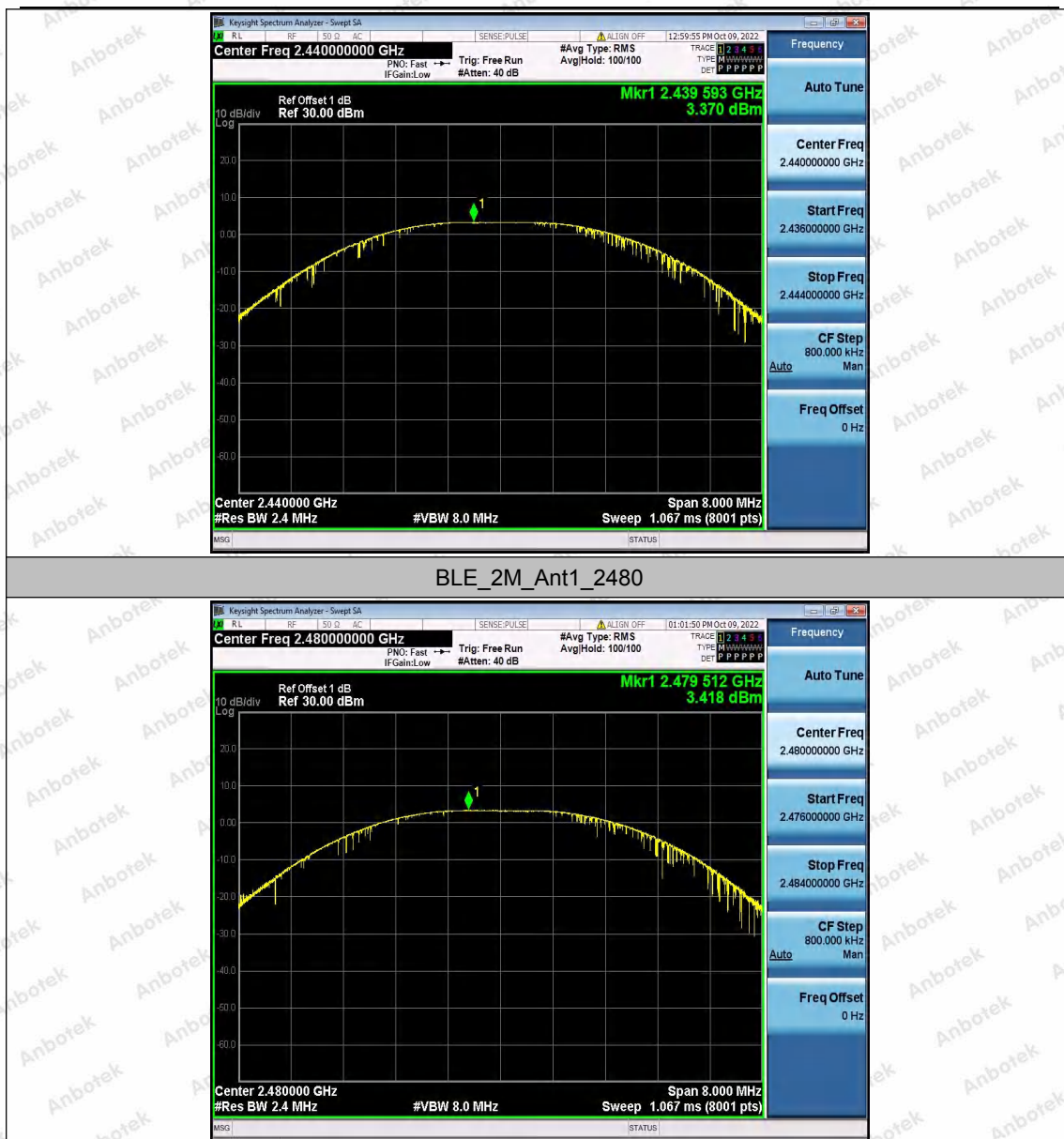
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.05	≤8.00	PASS
		2440	-14.7	≤8.00	PASS
		2480	-14.28	≤8.00	PASS
BLE_2M	Ant1	2402	-16.37	≤8.00	PASS
		2440	-16.32	≤8.00	PASS
		2480	-16.17	≤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

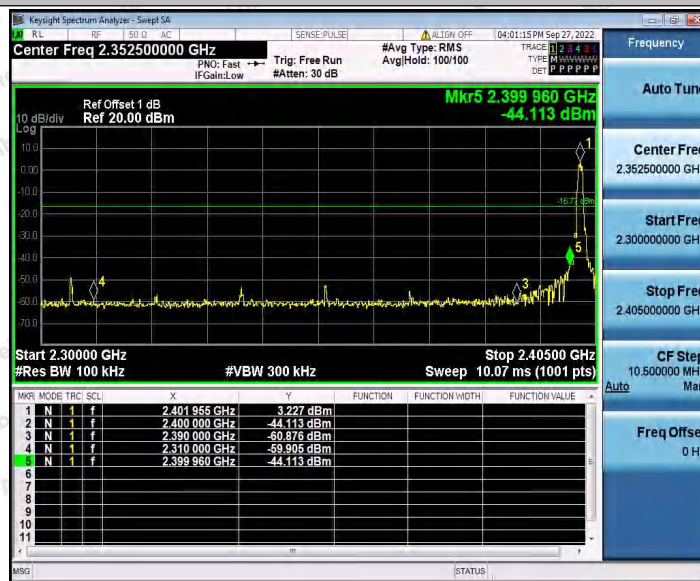
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.23	-44.11	≤-16.77	PASS
		High	2480	1.71	-50	≤-18.29	PASS
BLE_2M	Ant1	Low	2402	3.40	-28.62	≤-16.6	PASS
		High	2480	3.48	-49.58	≤-16.52	PASS

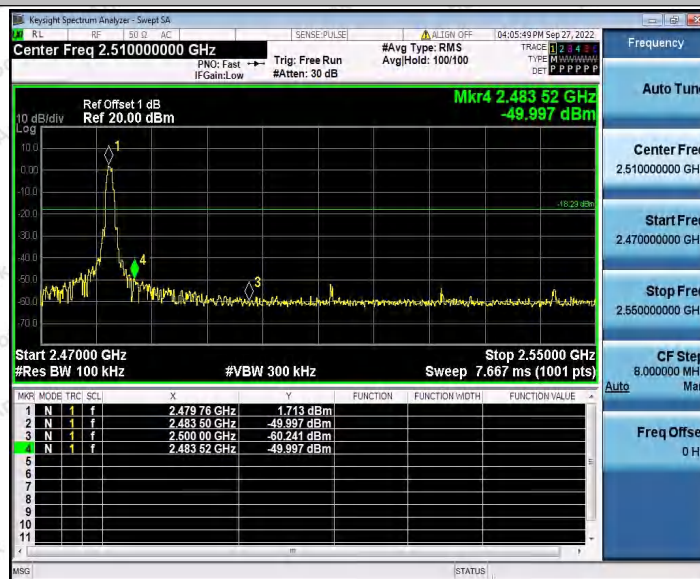


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

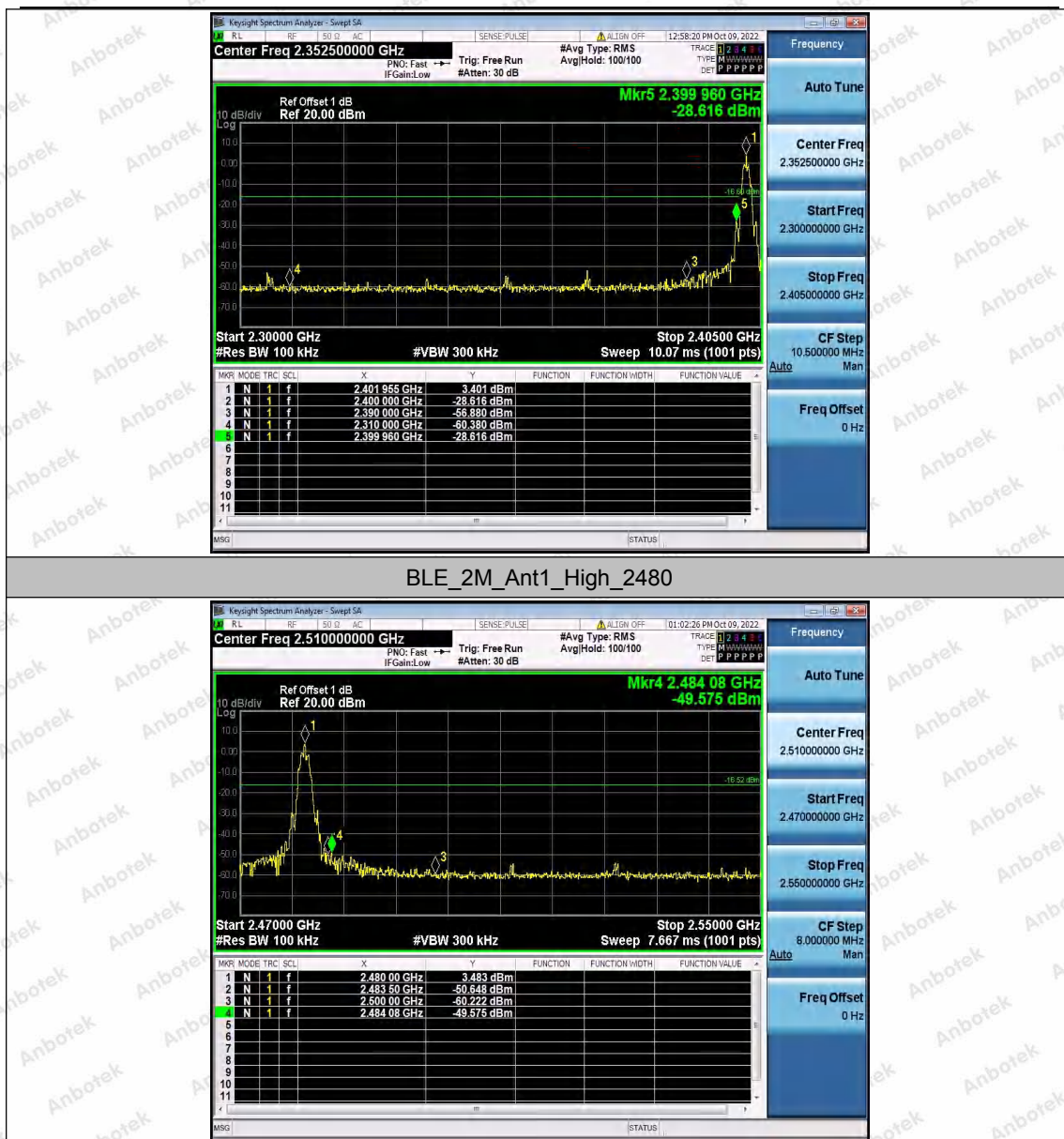
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.08	3.08	---	PASS
			30~1000	3.08	-69.24	≤-16.92	PASS
			1000~26500	3.08	-44.79	≤-16.92	PASS
		2440	Reference	3.20	3.20	---	PASS
			30~1000	3.20	-67.73	≤-16.8	PASS
			1000~26500	3.20	-46.49	≤-16.8	PASS
		2480	Reference	3.47	3.47	---	PASS
			30~1000	3.47	-69.45	≤-16.53	PASS
			1000~26500	3.47	-47.49	≤-16.53	PASS
BLE_2M	Ant1	2402	Reference	3.20	3.20	---	PASS
			30~1000	3.20	-69.15	≤-16.8	PASS
			1000~26500	3.20	-50.3	≤-16.8	PASS
		2440	Reference	3.26	3.26	---	PASS
			30~1000	3.26	-69.47	≤-16.74	PASS
			1000~26500	3.26	-48.4	≤-16.74	PASS
		2480	Reference	3.33	3.33	---	PASS
			30~1000	3.33	-69.43	≤-16.67	PASS
			1000~26500	3.33	-49.19	≤-16.67	PASS

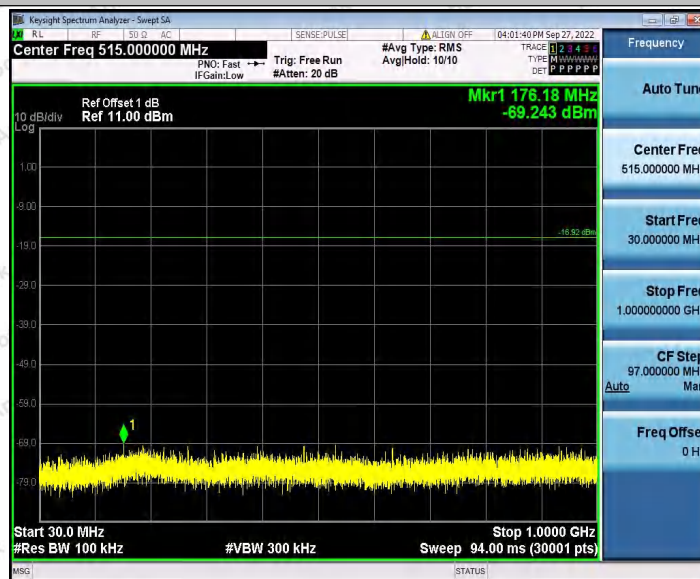


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

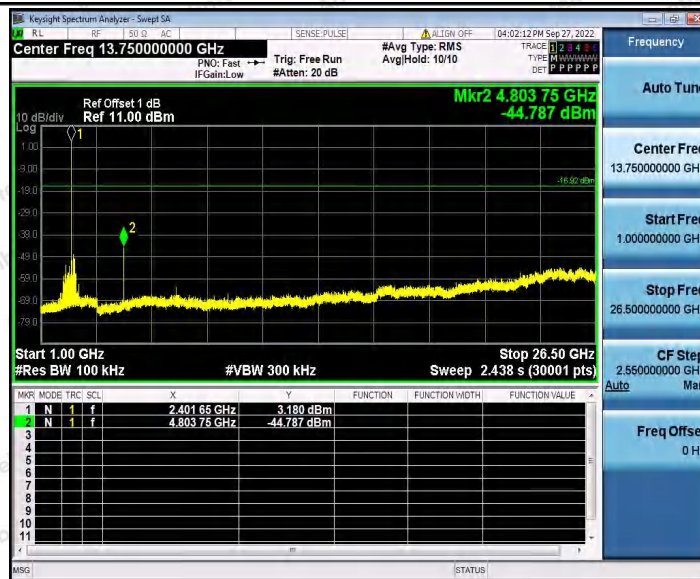
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

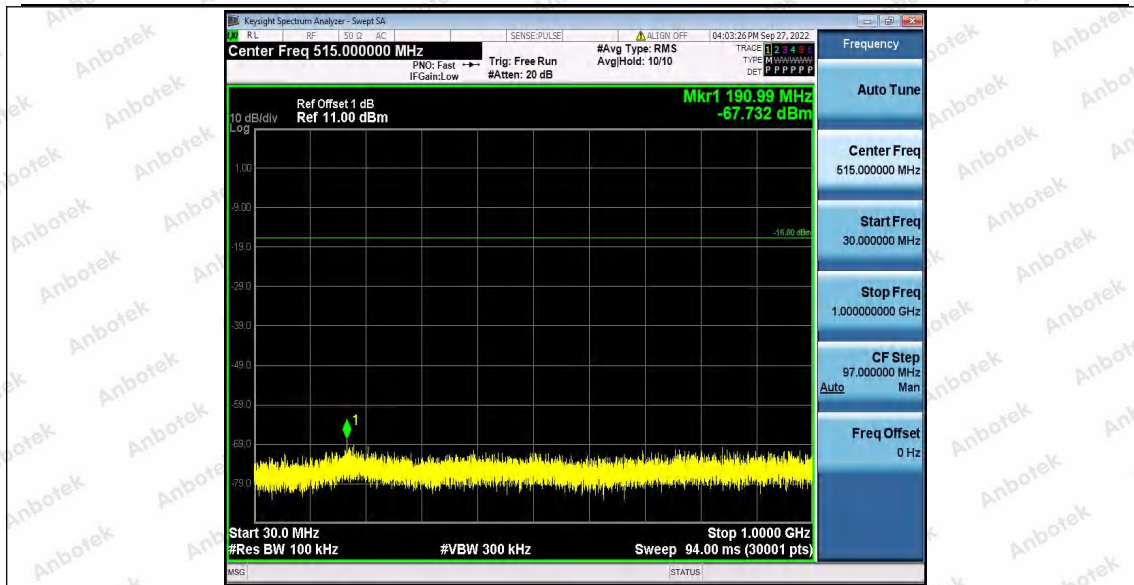
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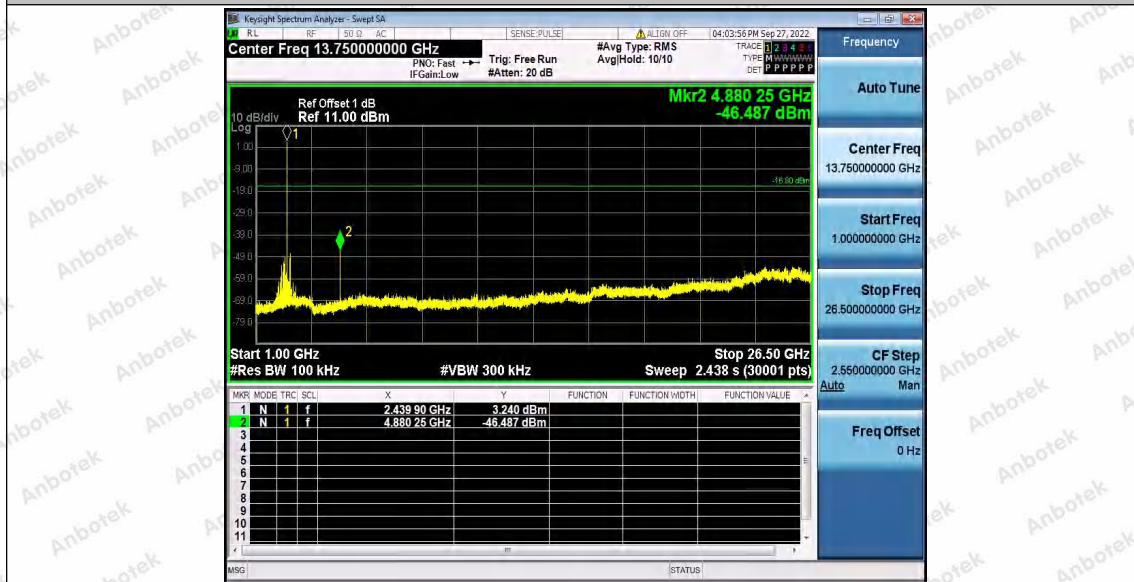


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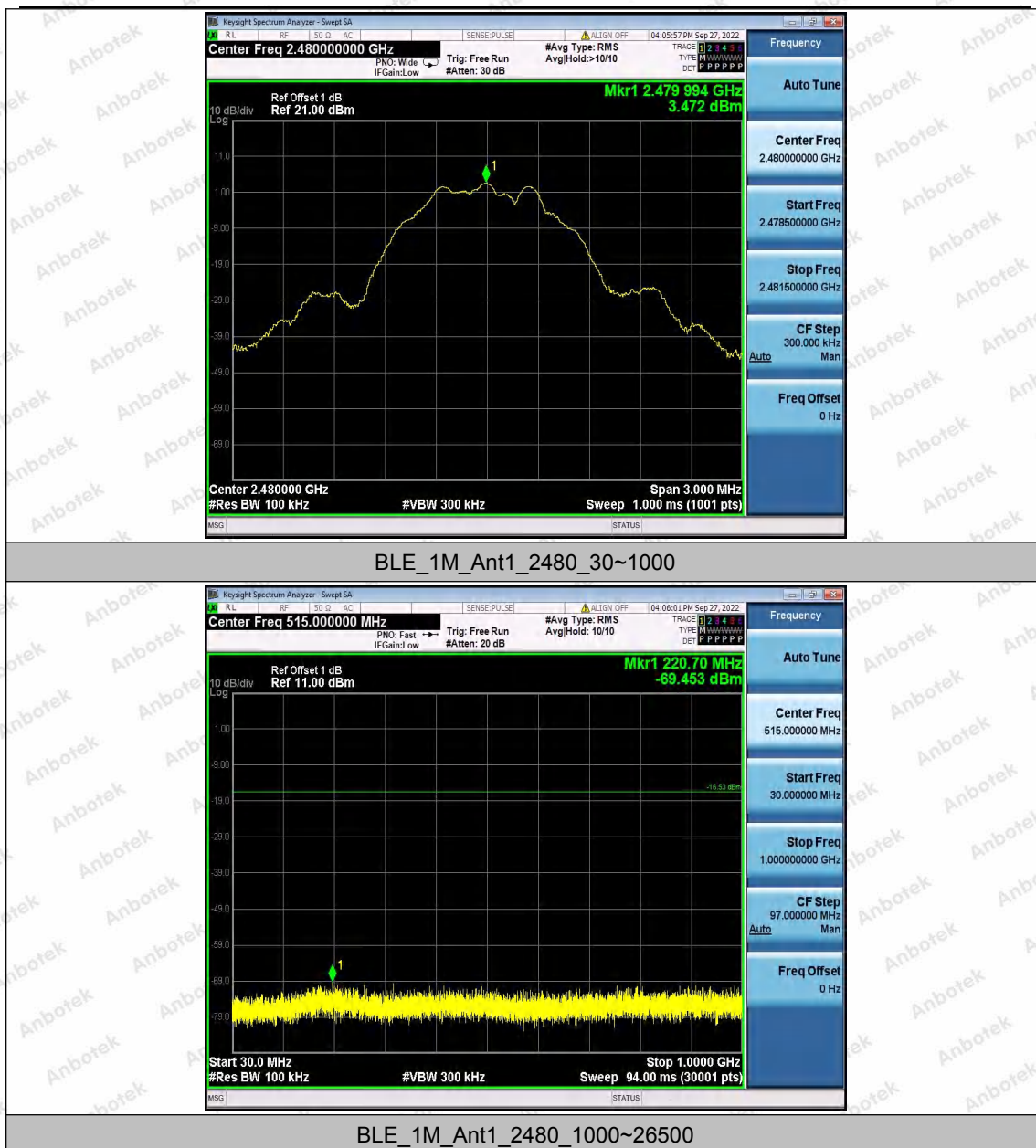


BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference





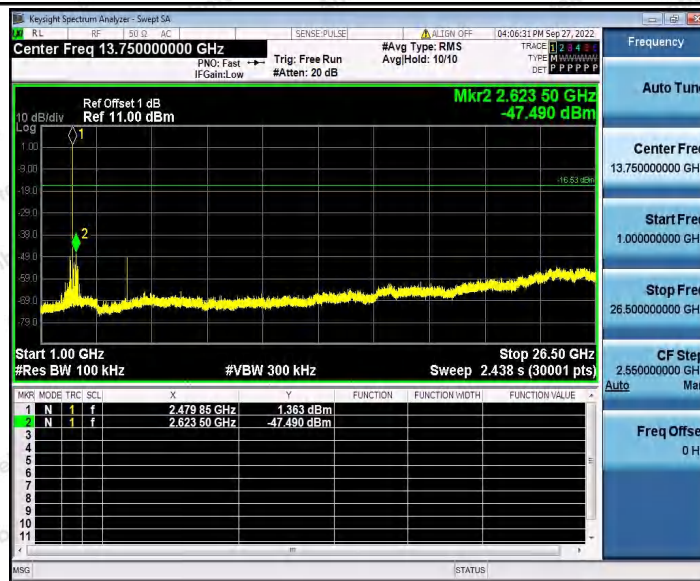
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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

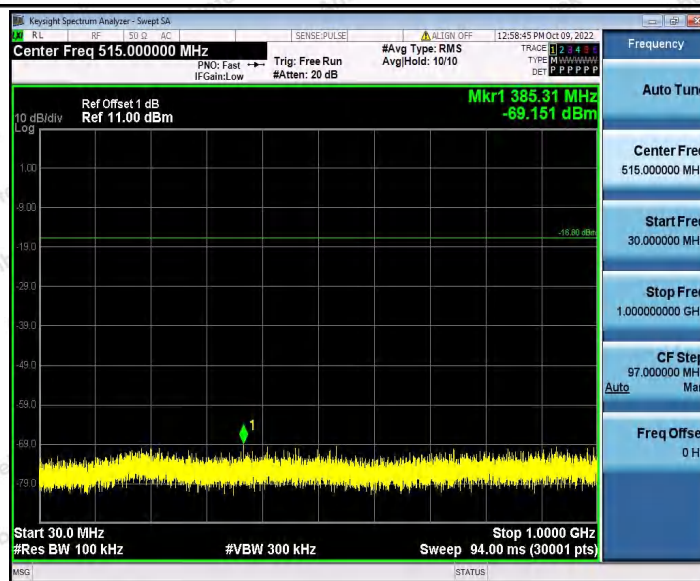
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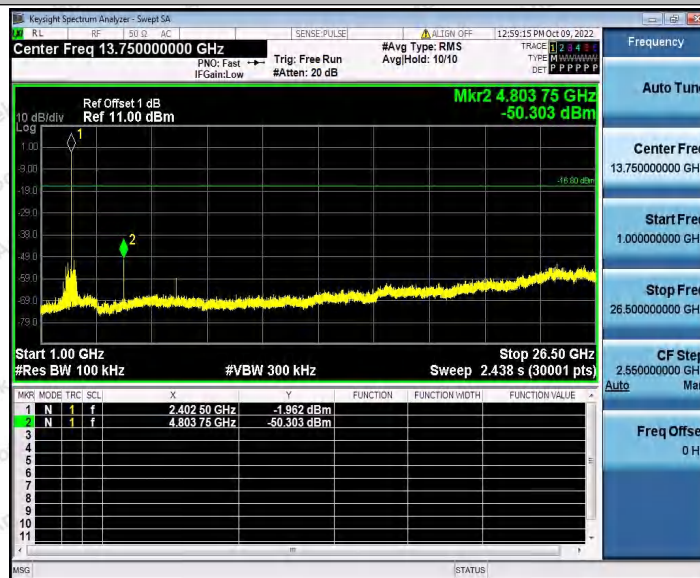


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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

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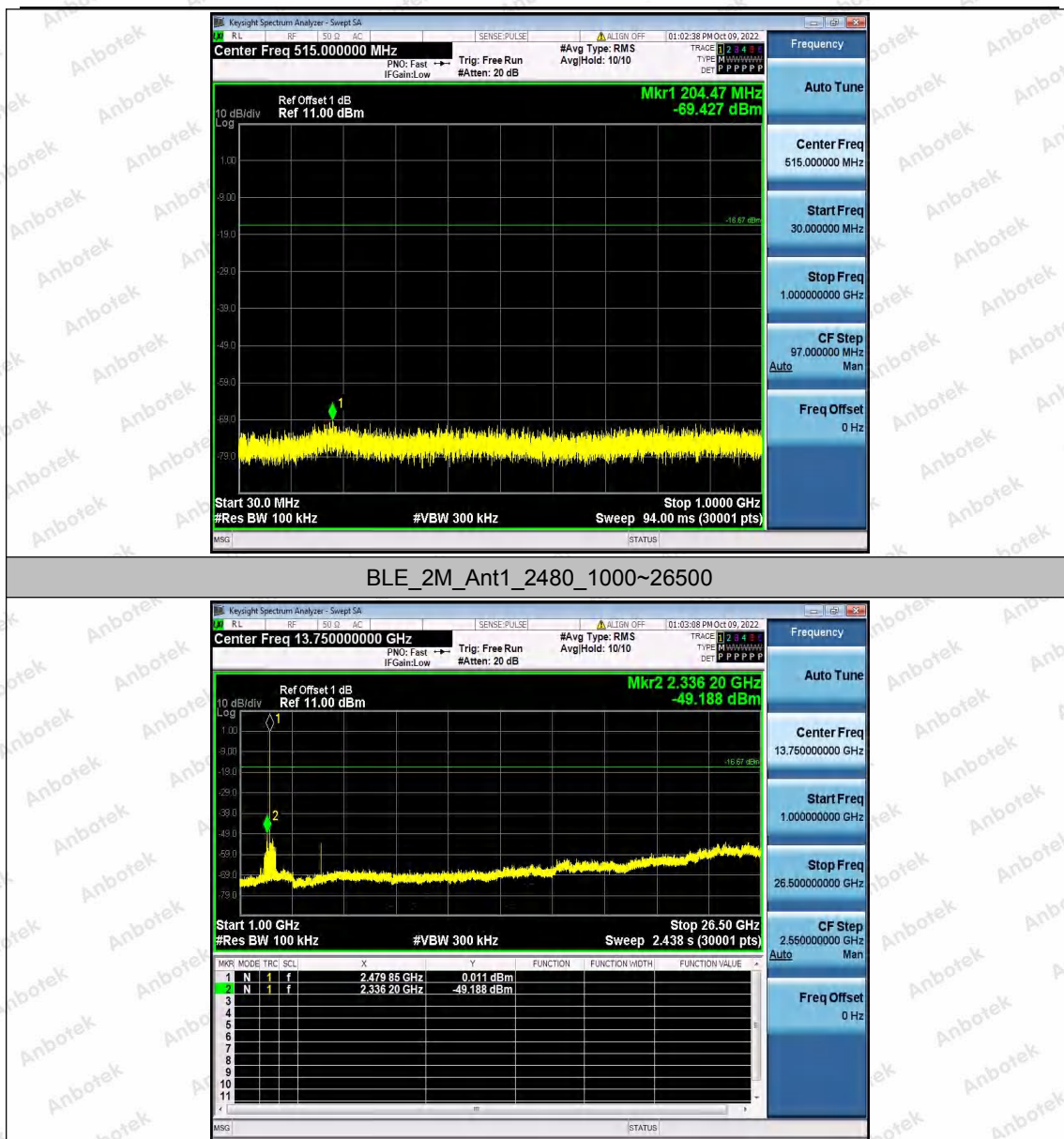


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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Appendix G: Duty Cycle

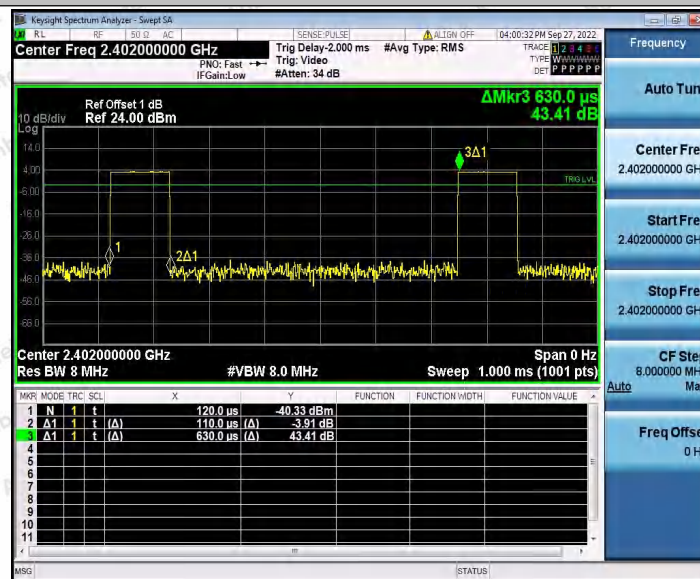
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.11	0.63	17.46	7.58
		2440	0.11	0.63	17.46	7.58
		2480	0.11	0.63	17.46	7.58
BLE_2M	Ant1	2402	0.07	0.63	11.11	9.54
		2440	0.07	0.63	11.11	9.54
		2480	0.07	0.63	11.11	9.54

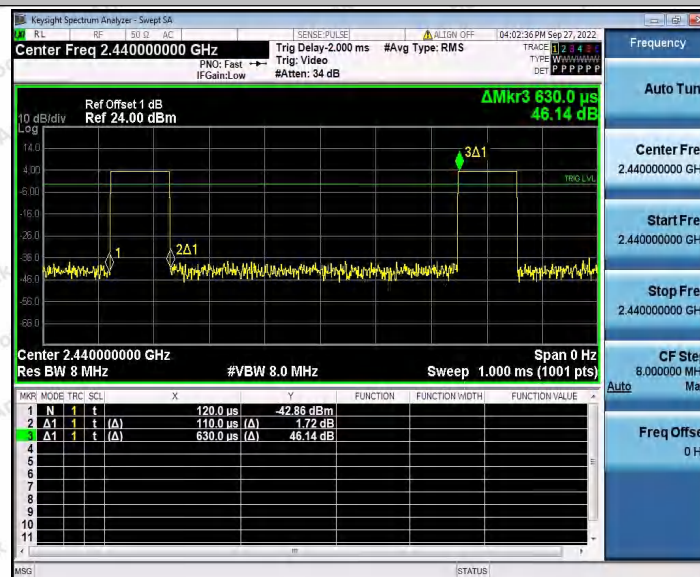


Test Graphs

BLE_1M_Ant1_2402

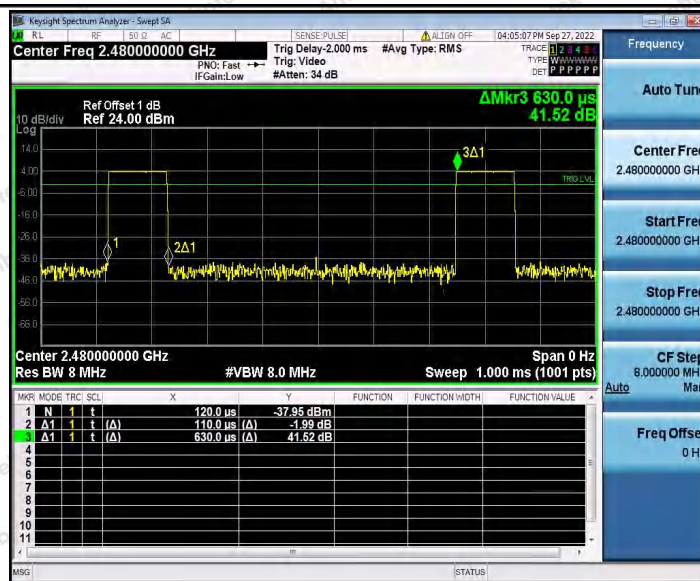


BLE_1M_Ant1_2440

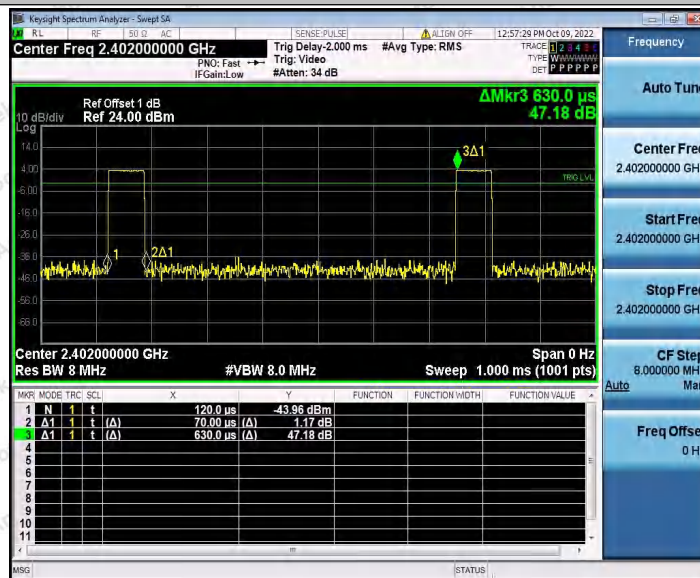


BLE_1M_Ant1_2480



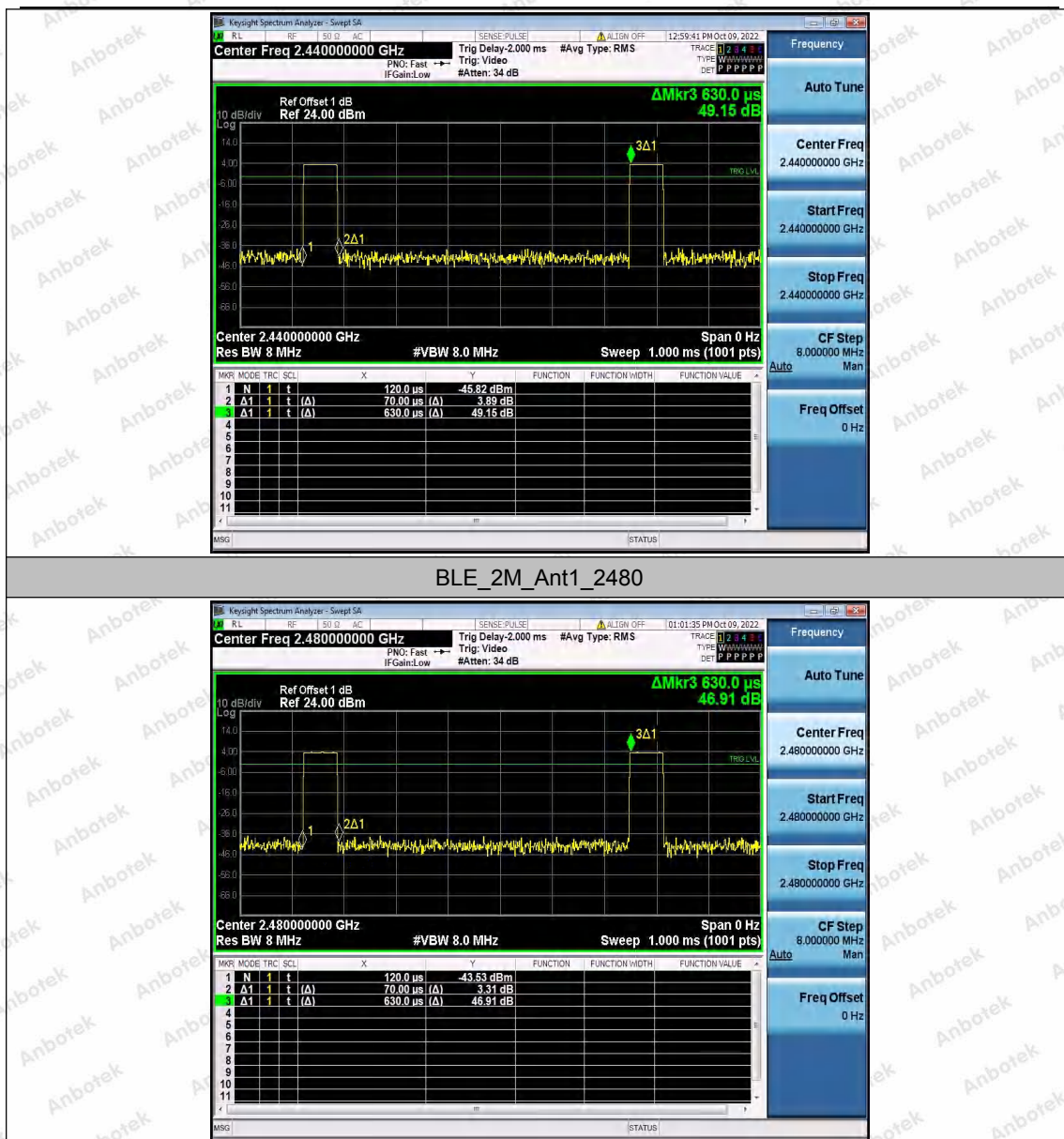


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---End---

