

Appendix Test Data

Report No.:	18220WC20200501	Test Sample No.:	1-2-2
Start Test Date:	2022.8.29	Finish Test Date:	2022.9.2
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3°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	0.696	2401.656	2402.352	0.5	PASS
		2440	0.692	2439.644	2440.336	0.5	PASS
		2480	0.700	2479.648	2480.348	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

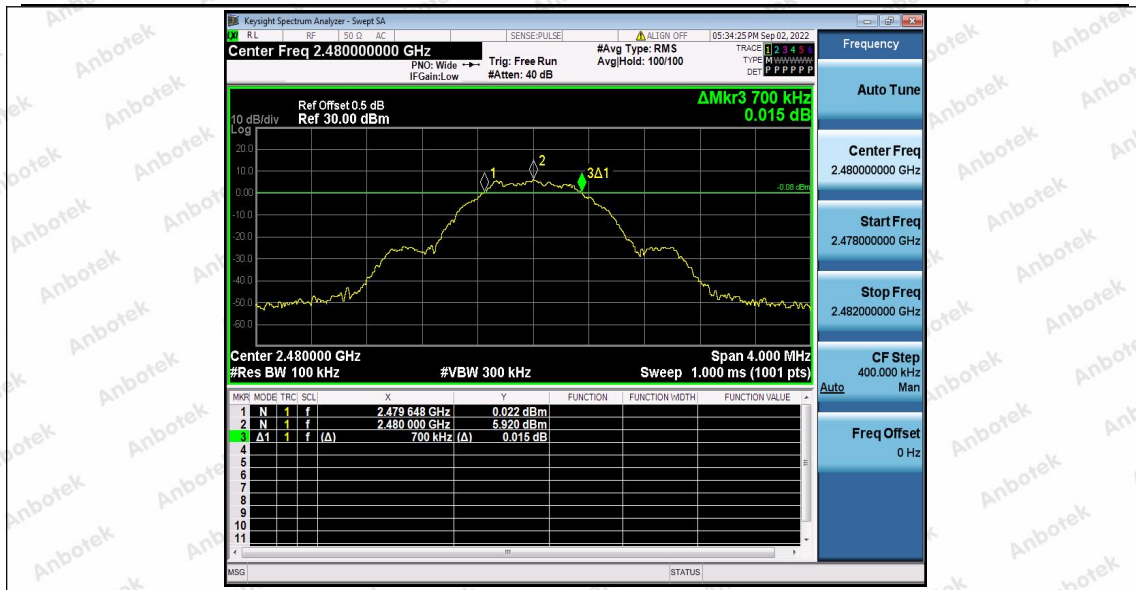
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



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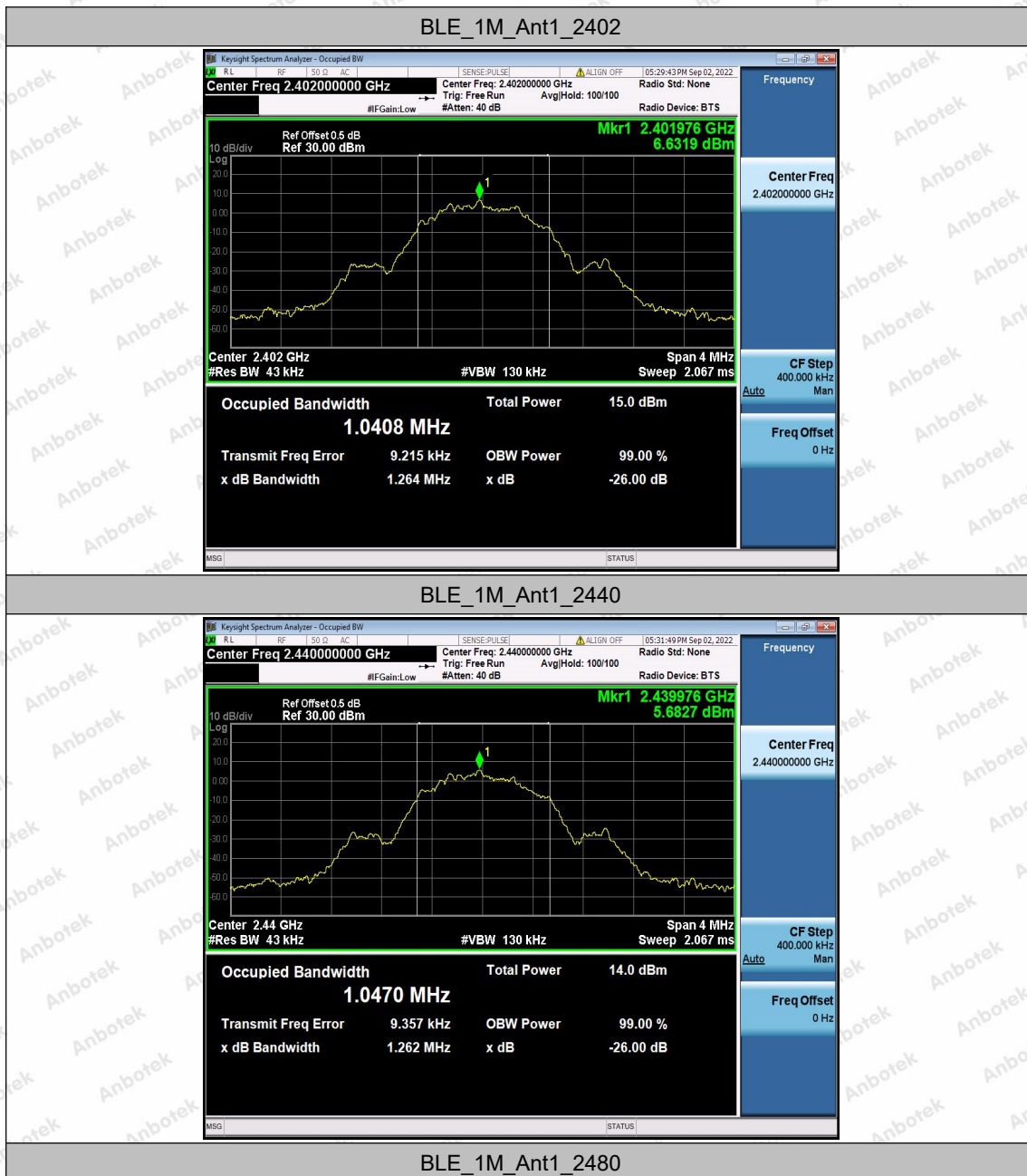
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0408	2401.4888	2402.5296
		2440	1.0470	2439.4859	2440.5329
		2480	1.0436	2479.4830	2480.5266



Test Graphs



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Appendix C: Maximum conducted output power

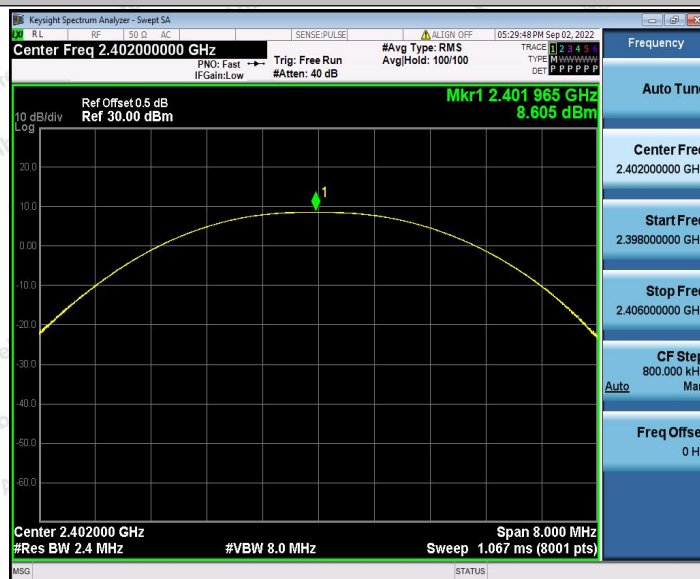
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	8.61	≤30	PASS
		2440	7.70	≤30	PASS
		2480	6.74	≤30	PASS

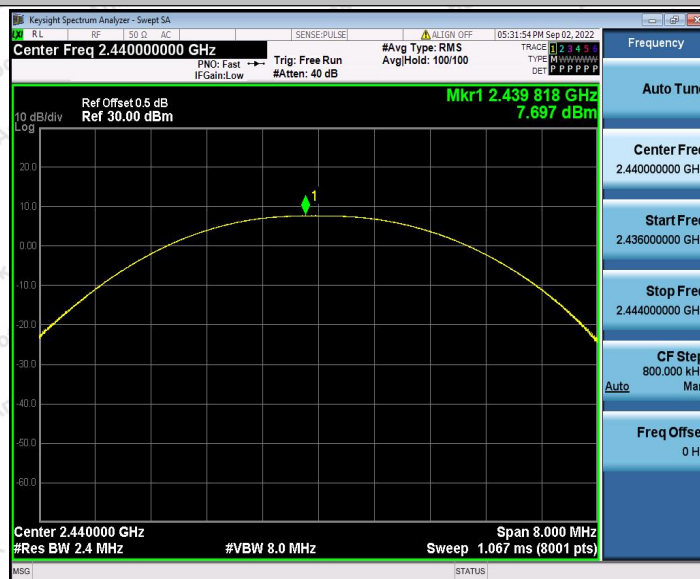


Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

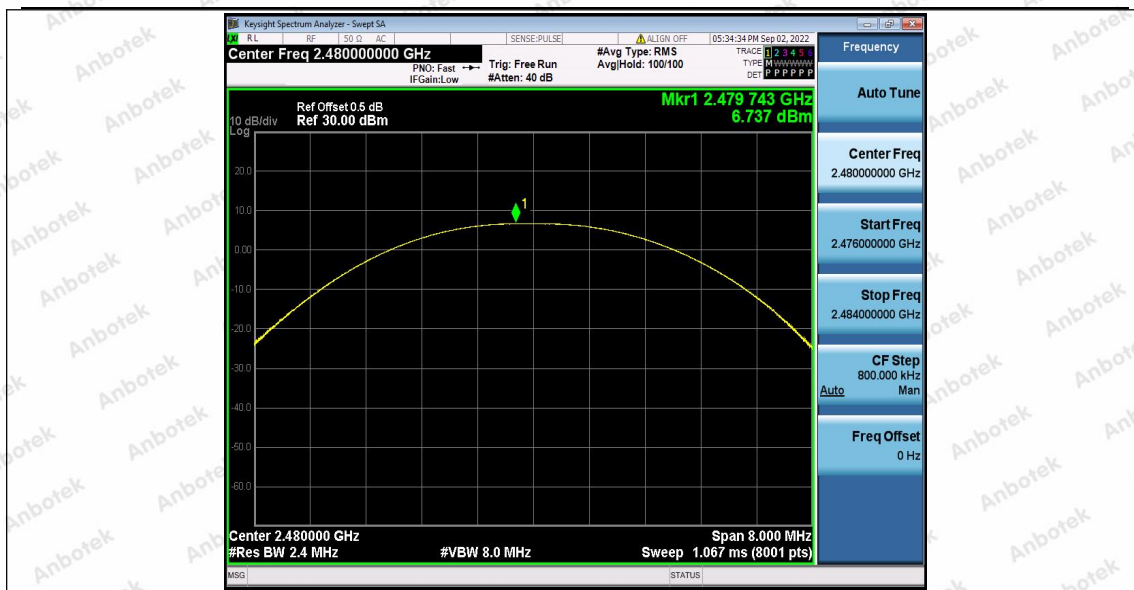
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-6.32	≤8.00	PASS
		2440	-7.45	≤8.00	PASS
		2480	-9.02	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

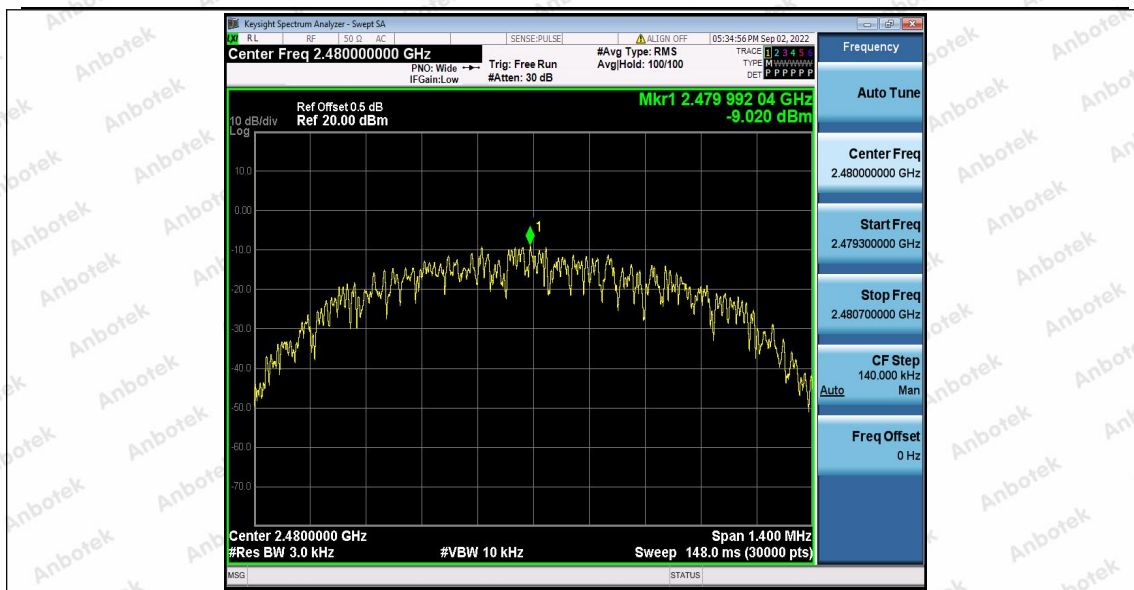
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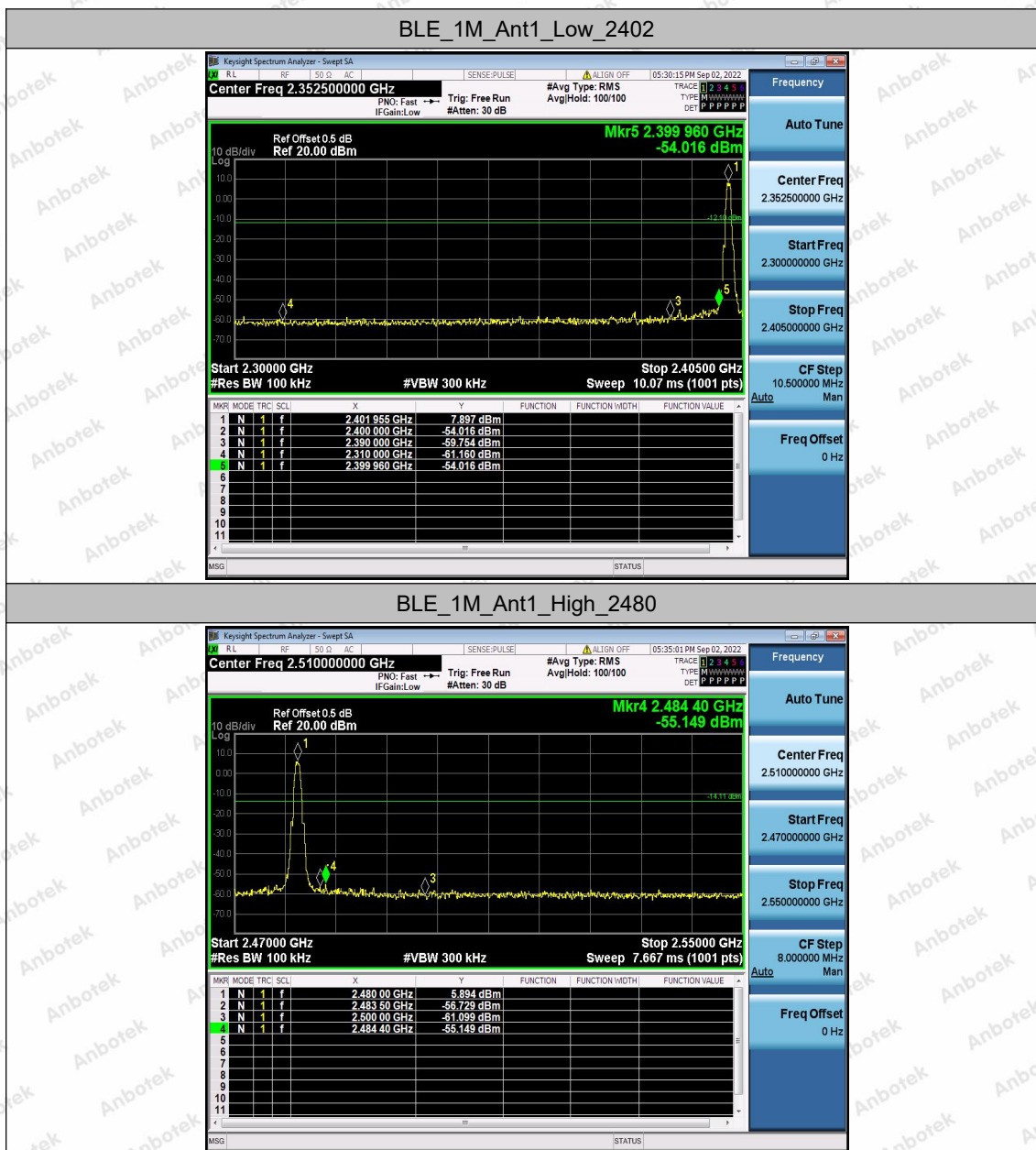
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.90	-54.02	≤-12.1	PASS
		High	2480	5.89	-55.15	≤-14.11	PASS



Test Graphs



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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	7.77	7.77	---	PASS
			30~1000	7.77	-67.92	≤-22.23	PASS
			1000~26500	7.77	-53.28	≤-22.23	PASS
		2440	Reference	5.64	5.64	---	PASS
			30~1000	5.64	-67.77	≤-24.36	PASS
			1000~26500	5.64	-53.93	≤-24.36	PASS
		2480	Reference	4.96	4.96	---	PASS
			30~1000	4.96	-69.67	≤-25.04	PASS
			1000~26500	4.96	-53.68	≤-25.04	PASS

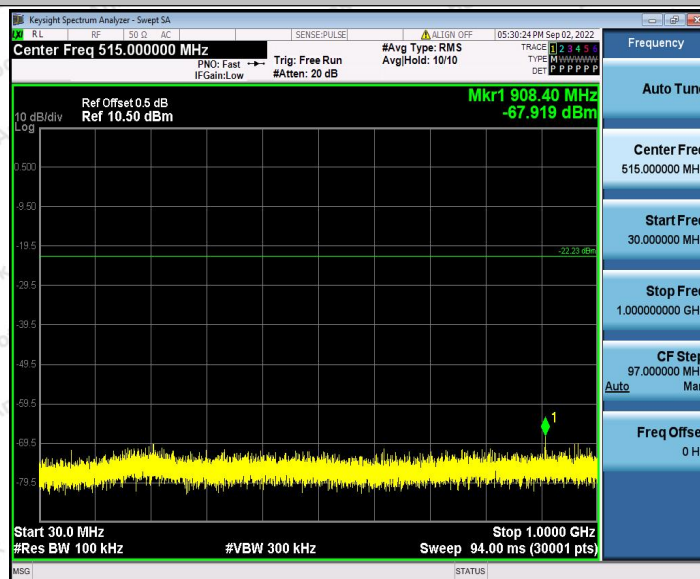


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

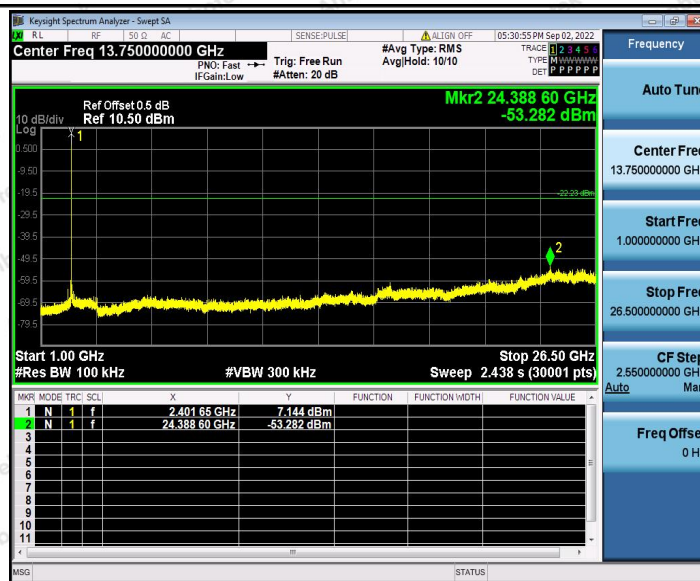
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

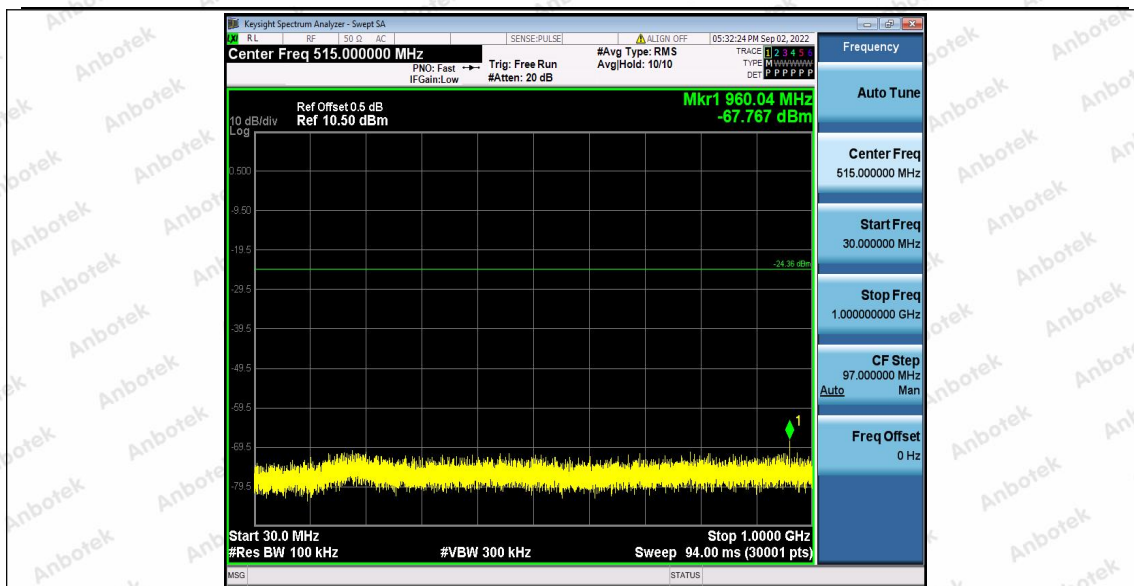
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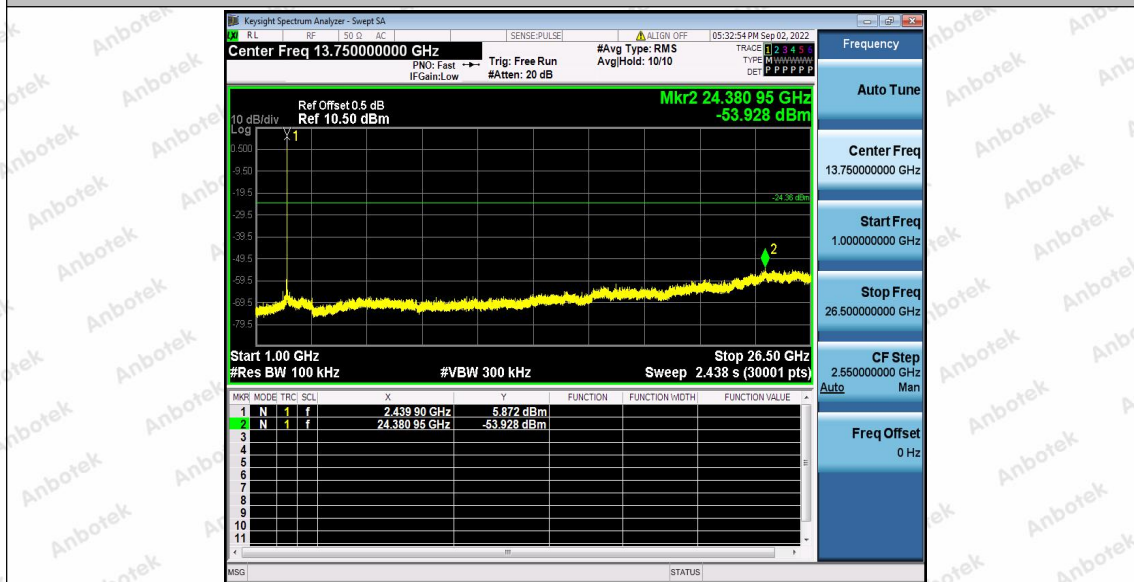


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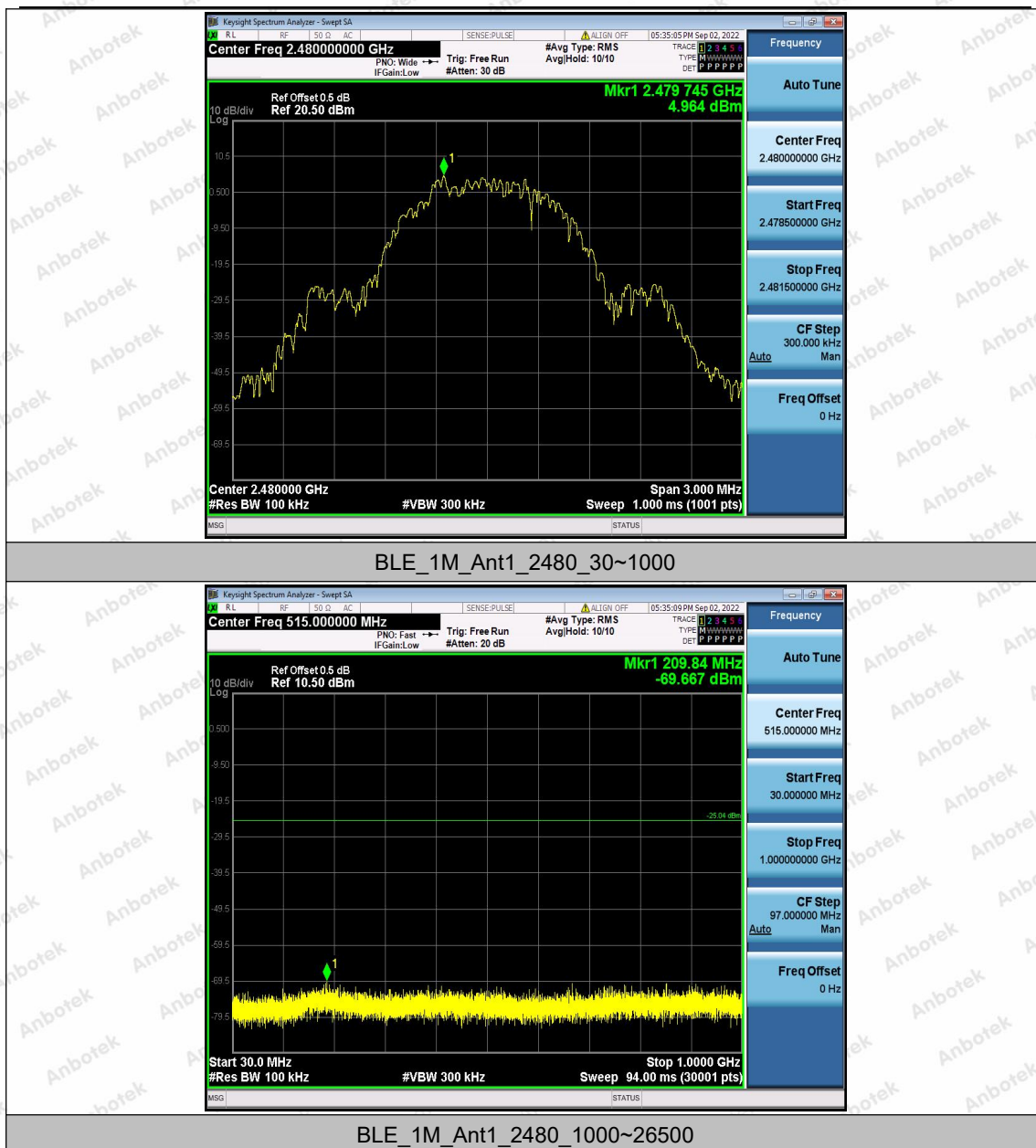


BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



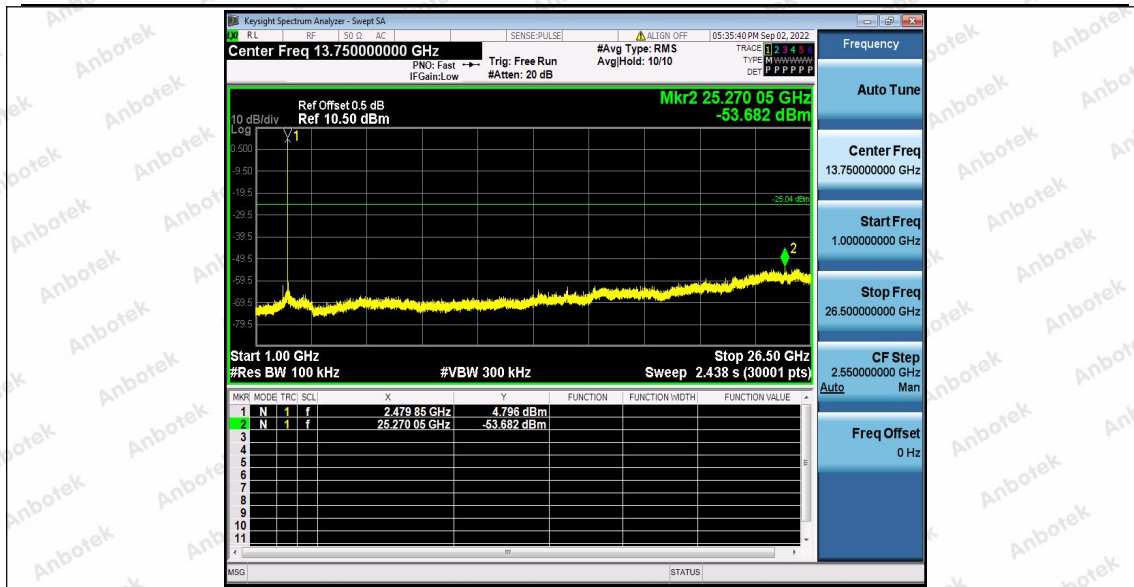
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Appendix G: Duty Cycle

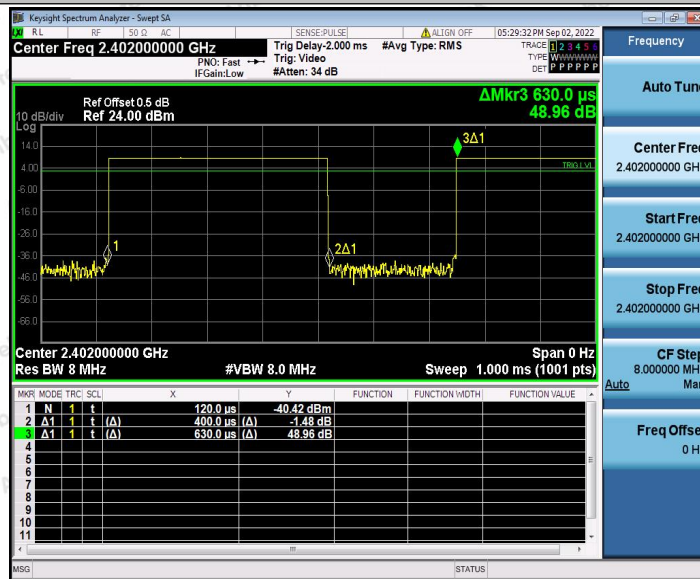
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.40	0.63	63.49	1.97
		2440	0.40	0.63	63.49	1.97
		2480	0.40	0.63	63.49	1.97

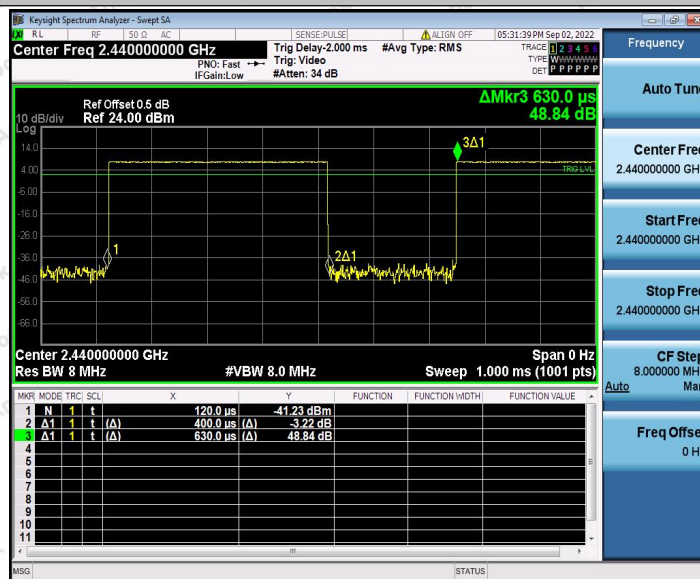


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

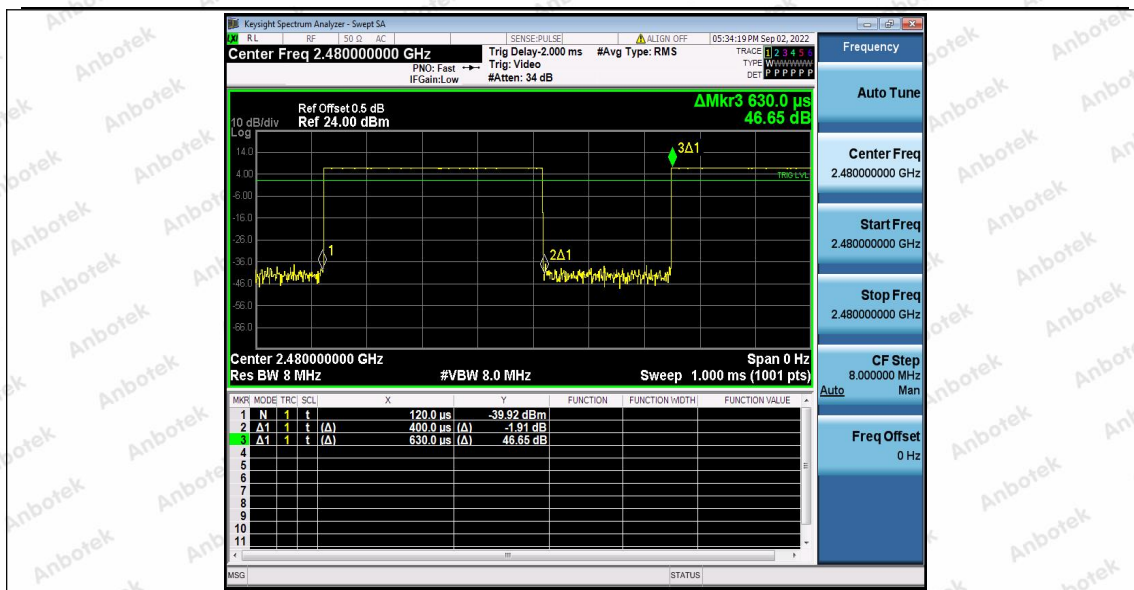
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