

Appendix Test Data

Report No.:	18220WC20237801	Test Sample No.:	1-2-2
Start Test Date:	2022.10.11	Finish Test Date:	2022.10.12
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	0.668	2401.652	2402.320	0.5	PASS
		2440	0.640	2439.668	2440.308	0.5	PASS
		2480	0.668	2479.652	2480.320	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

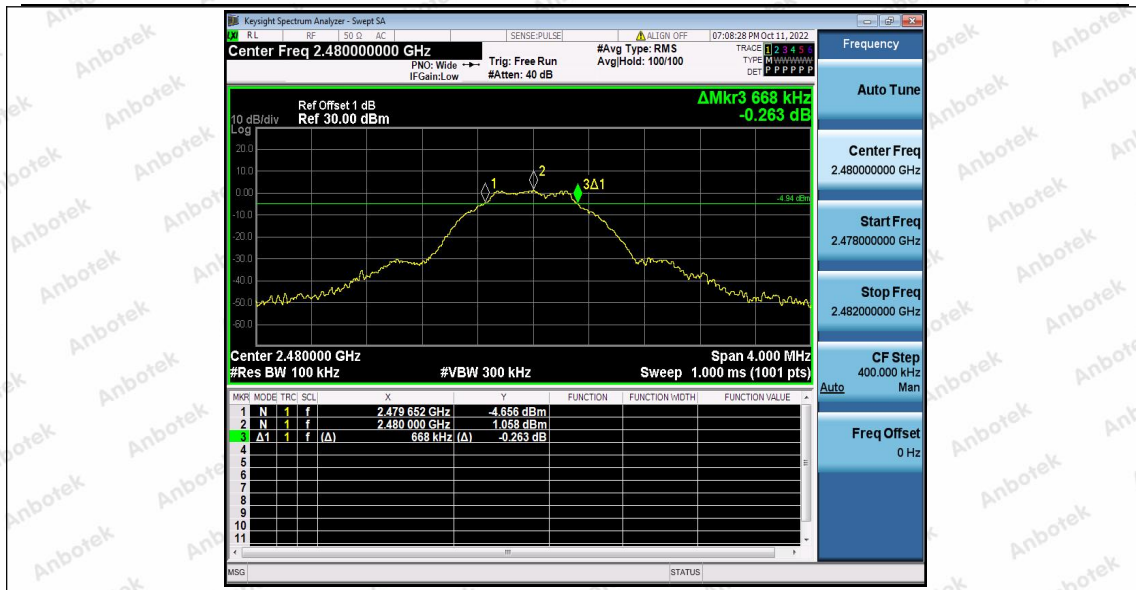
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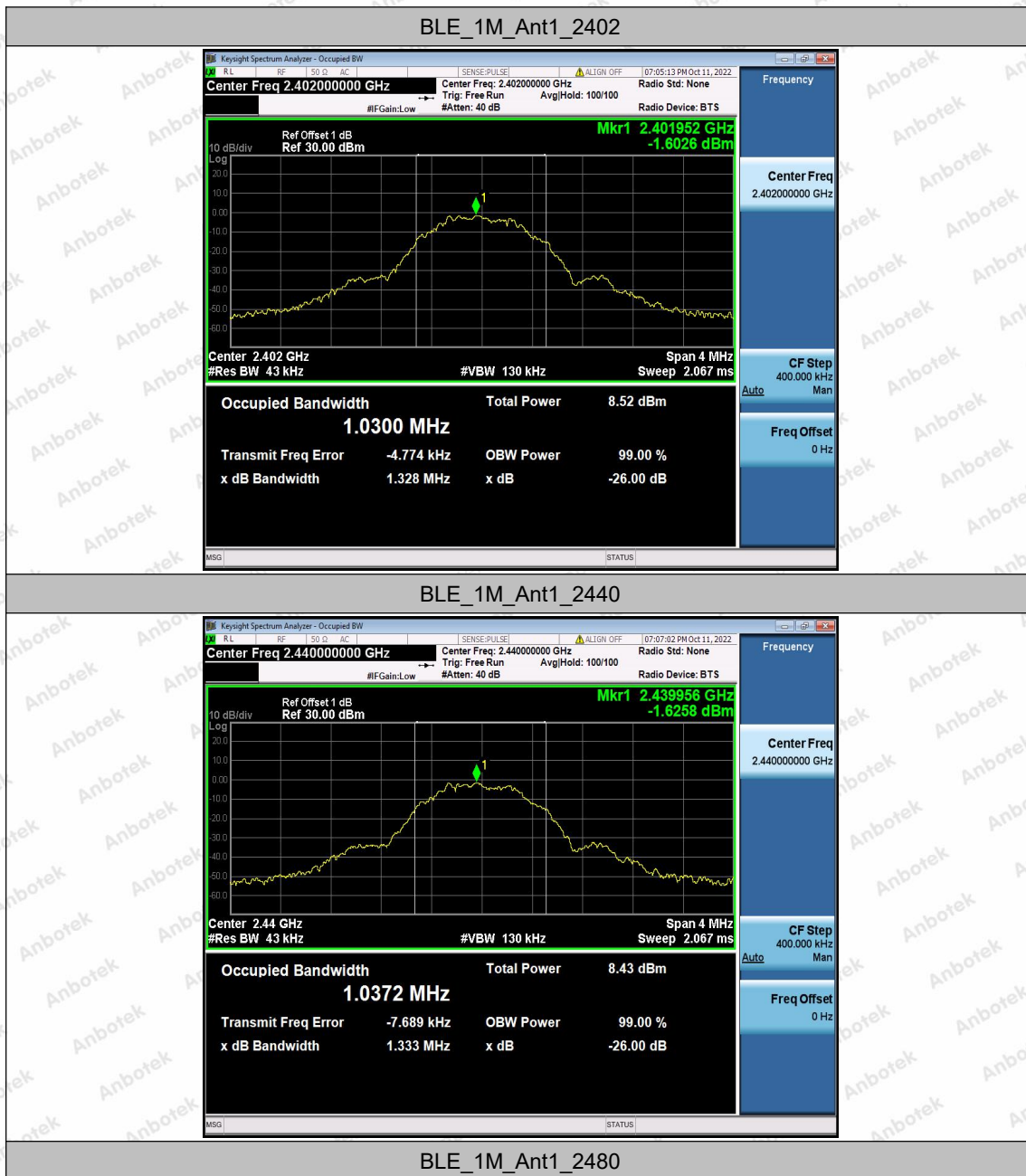
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0300	2401.4802	2402.5102
		2440	1.0372	2439.4737	2440.5109
		2480	1.0287	2479.4739	2480.5026



Test Graphs



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Appendix C: Maximum conducted output power

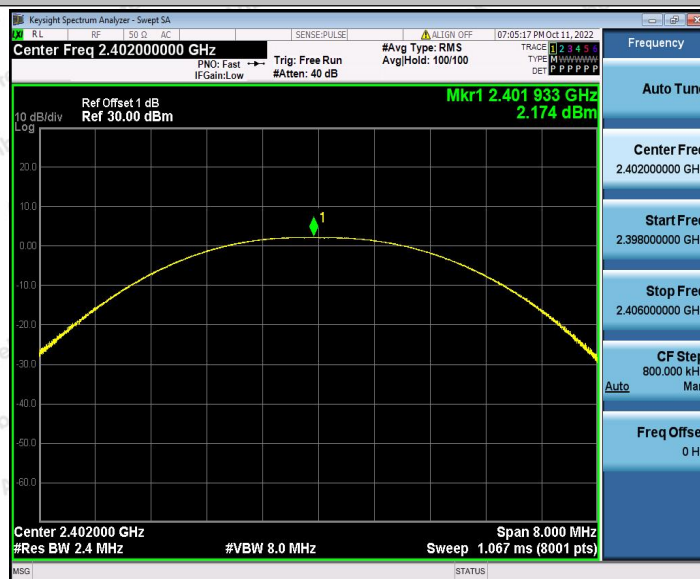
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.17	≤30	PASS
		2440	2.12	≤30	PASS
		2480	2.01	≤30	PASS

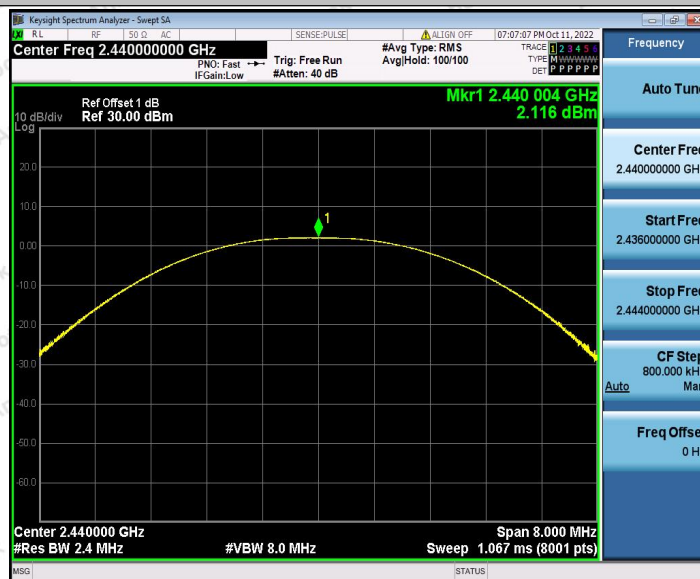


Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

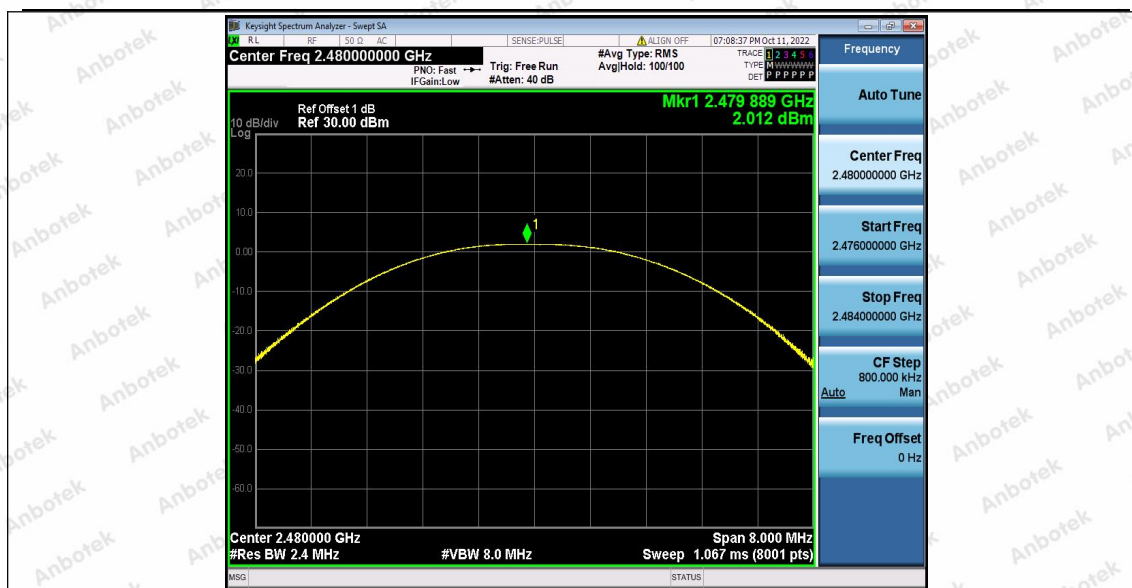
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.77	≤8.00	PASS
		2440	-12.8	≤8.00	PASS
		2480	-12.91	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

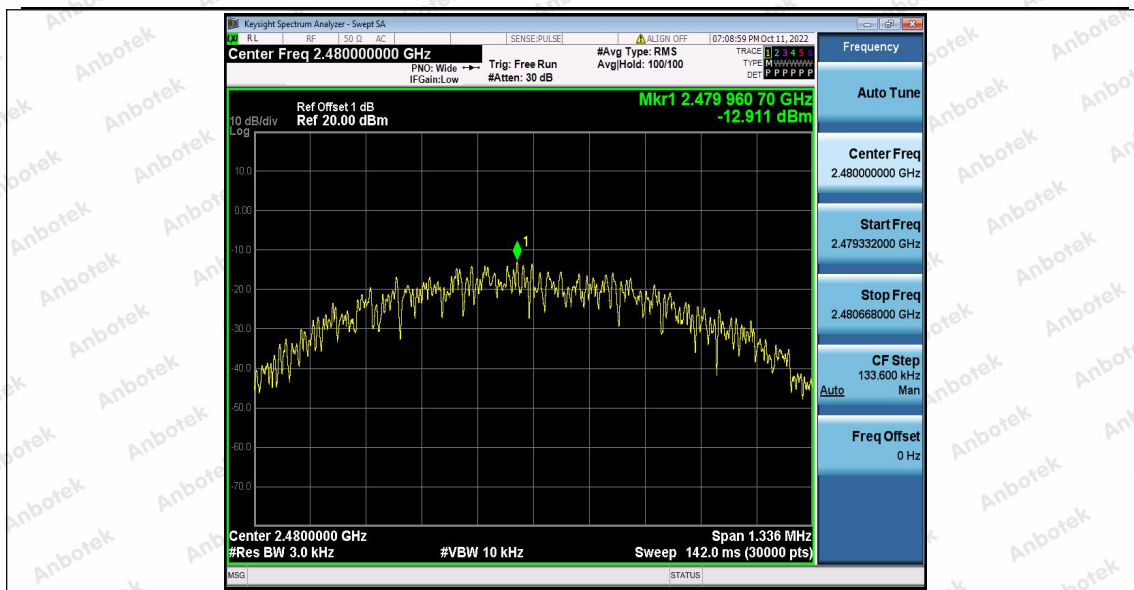
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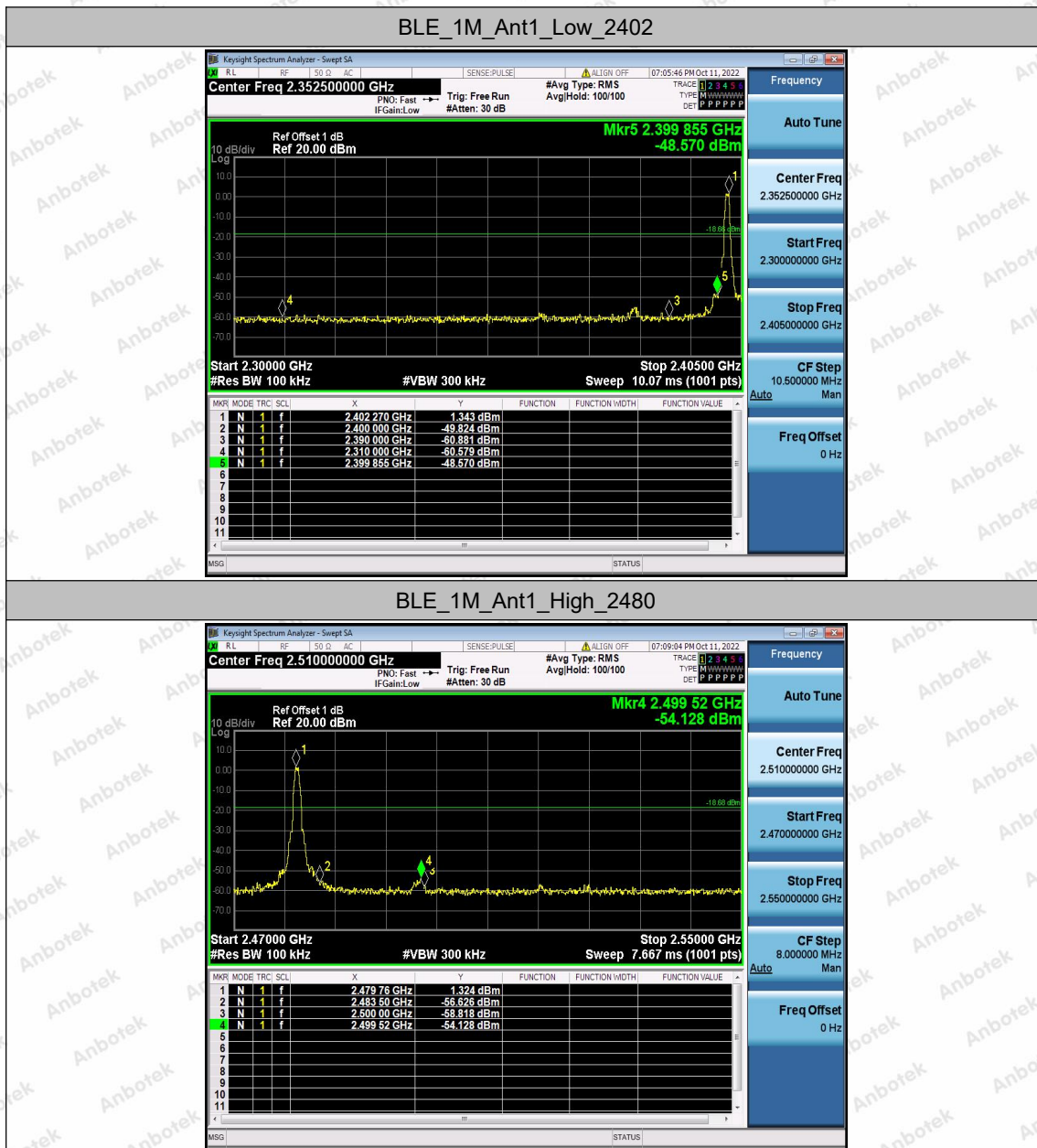
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.34	-48.57	≤-18.66	PASS
		High	2480	1.32	-54.13	≤-18.68	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	0.47	0.47	---	PASS
			30~1000	0.47	-57.27	≤-19.53	PASS
			1000~26500	0.47	-53.81	≤-19.53	PASS
		2440	Reference	0.55	0.55	---	PASS
			30~1000	0.55	-57	≤-19.45	PASS
			1000~26500	0.55	-53.75	≤-19.45	PASS
		2480	Reference	0.85	0.85	---	PASS
			30~1000	0.85	-57.1	≤-19.15	PASS
			1000~26500	0.85	-53.63	≤-19.15	PASS

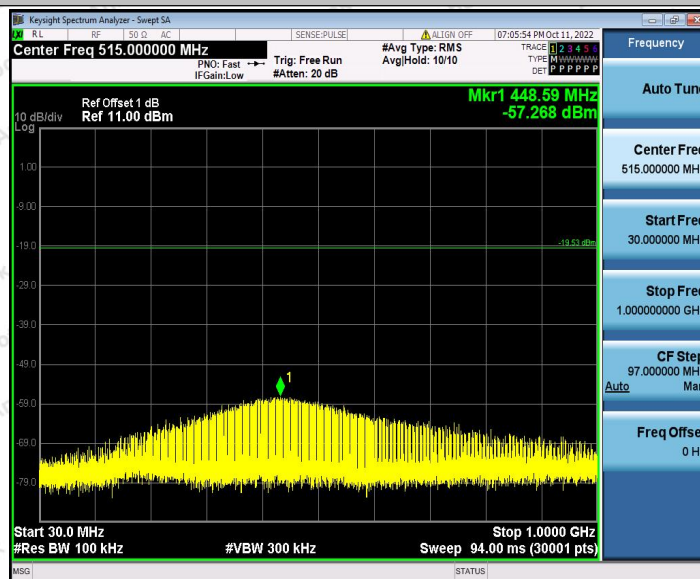


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

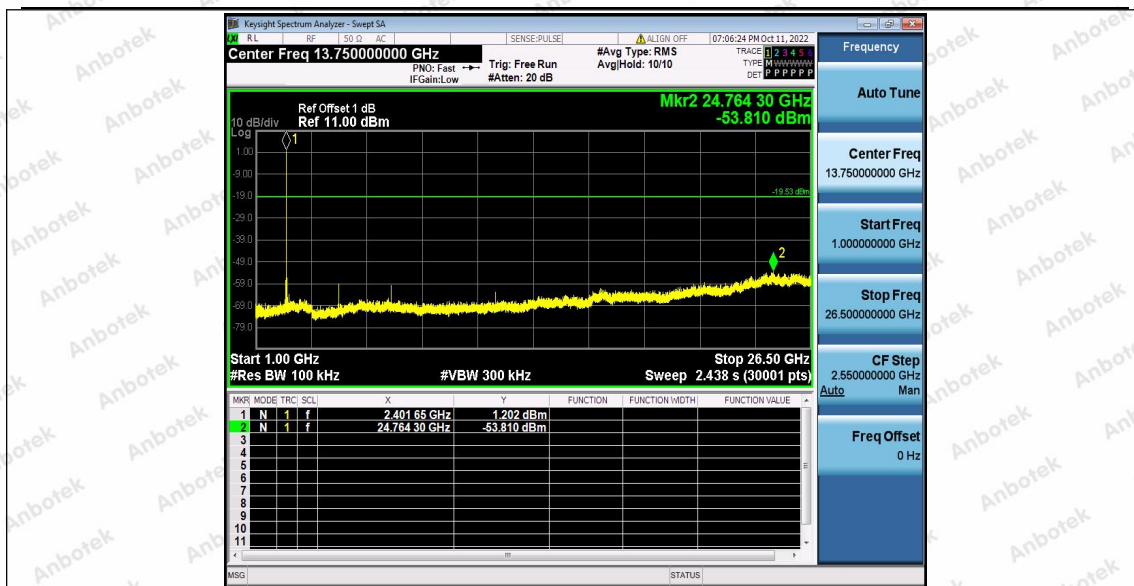
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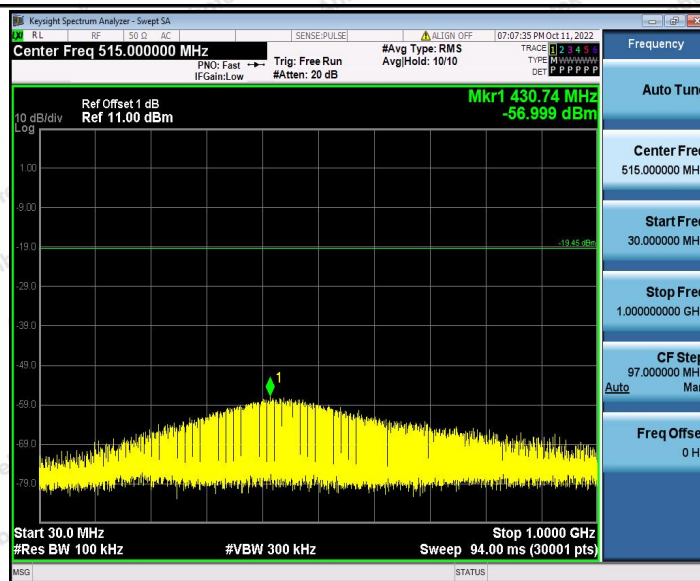


BLE_1M_Ant1_2440_0~Reference

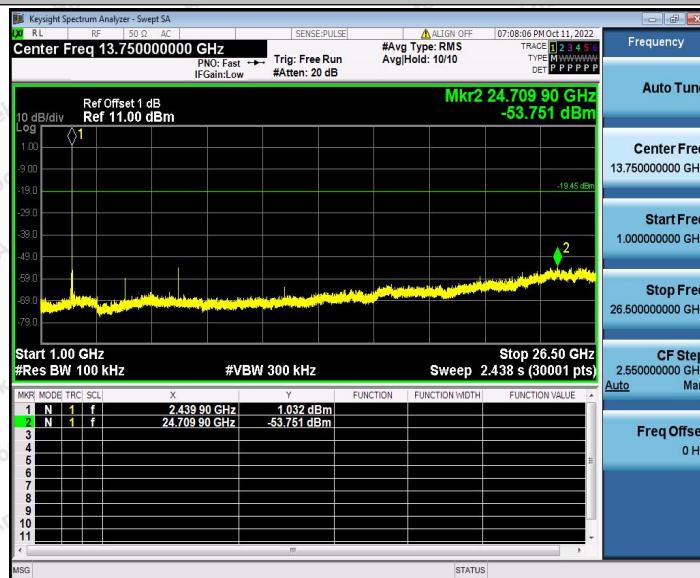


BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500

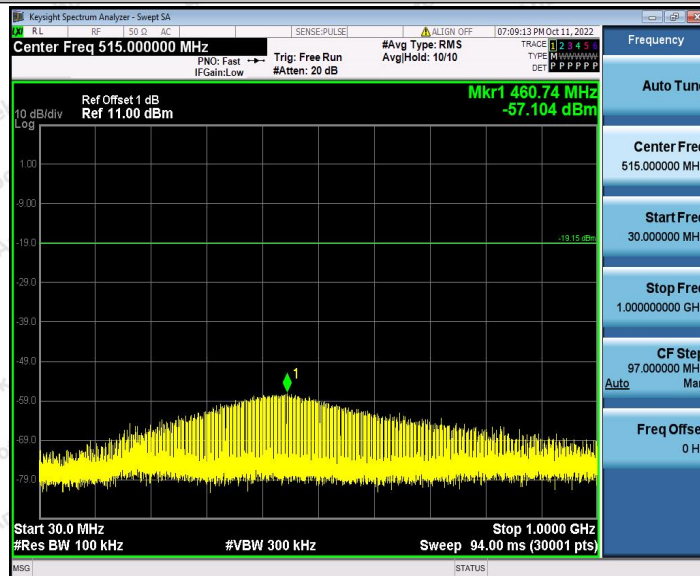


BLE_1M_Ant1_2480_0~Reference





BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

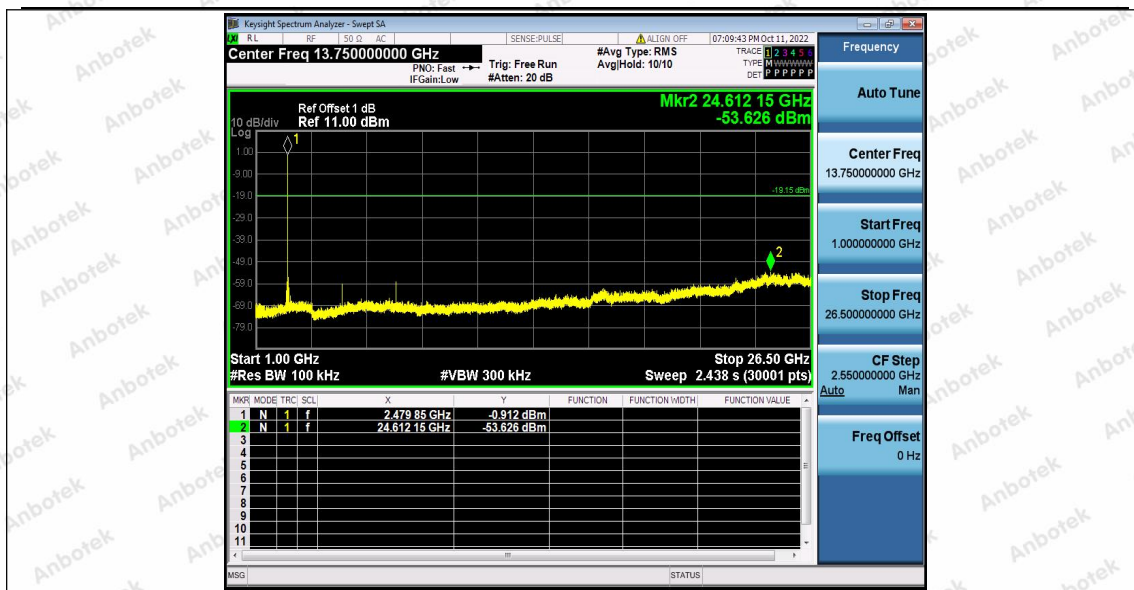
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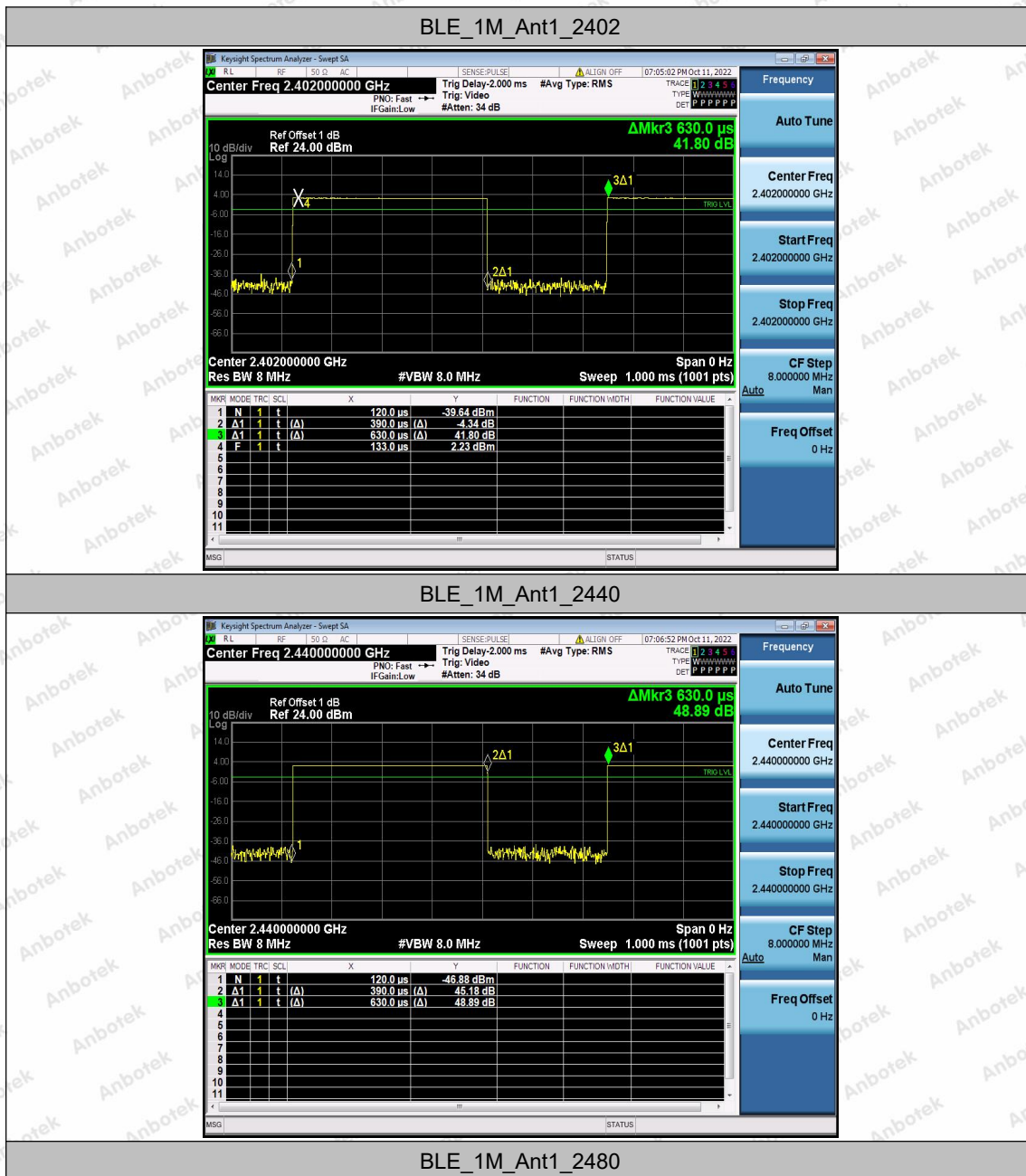
Appendix G: Duty Cycle

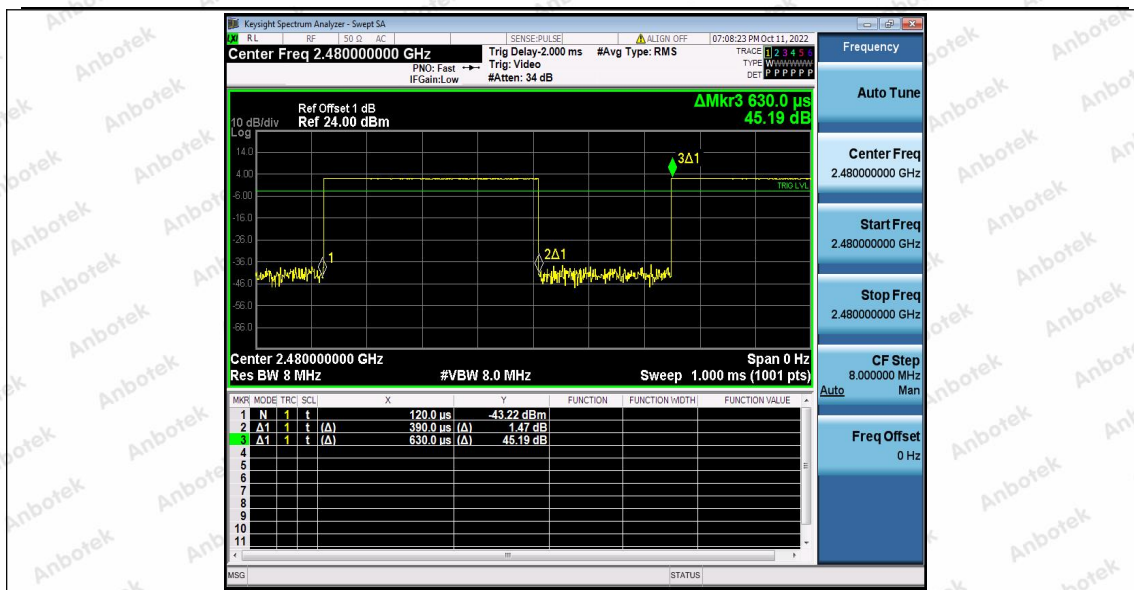
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
		2440	0.39	0.63	61.90	2.08
		2480	0.39	0.63	61.90	2.08



Test Graphs





---End---

