

Appendix Test Data

Report No.:	18220WC30255902	Test Sample No.:	1-2-2
Start Test Date:	2023.12.04	Finish Test Date:	2023.12.06
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.4℃	Relative Humidity:	48%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.516	2401.696	2402.212	0.5	PASS
		2440	0.524	2439.692	2440.216	0.5	PASS
		2480	0.532	2479.684	2480.216	0.5	PASS
BLE_2M	Ant1	2402	0.864	2401.436	2402.300	0.5	PASS
		2440	0.856	2439.440	2440.296	0.5	PASS
		2480	0.848	2479.428	2480.276	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	1.0608	2401.5028	2402.5636
		2440	1.0853	2439.4756	2440.5609
		2480	1.1379	2479.4273	2480.5652
BLE_2M	Ant1	2402	2.0596	2401.0138	2403.0734
		2440	2.0642	2439.0105	2441.0747
		2480	2.0821	2478.9990	2481.0811



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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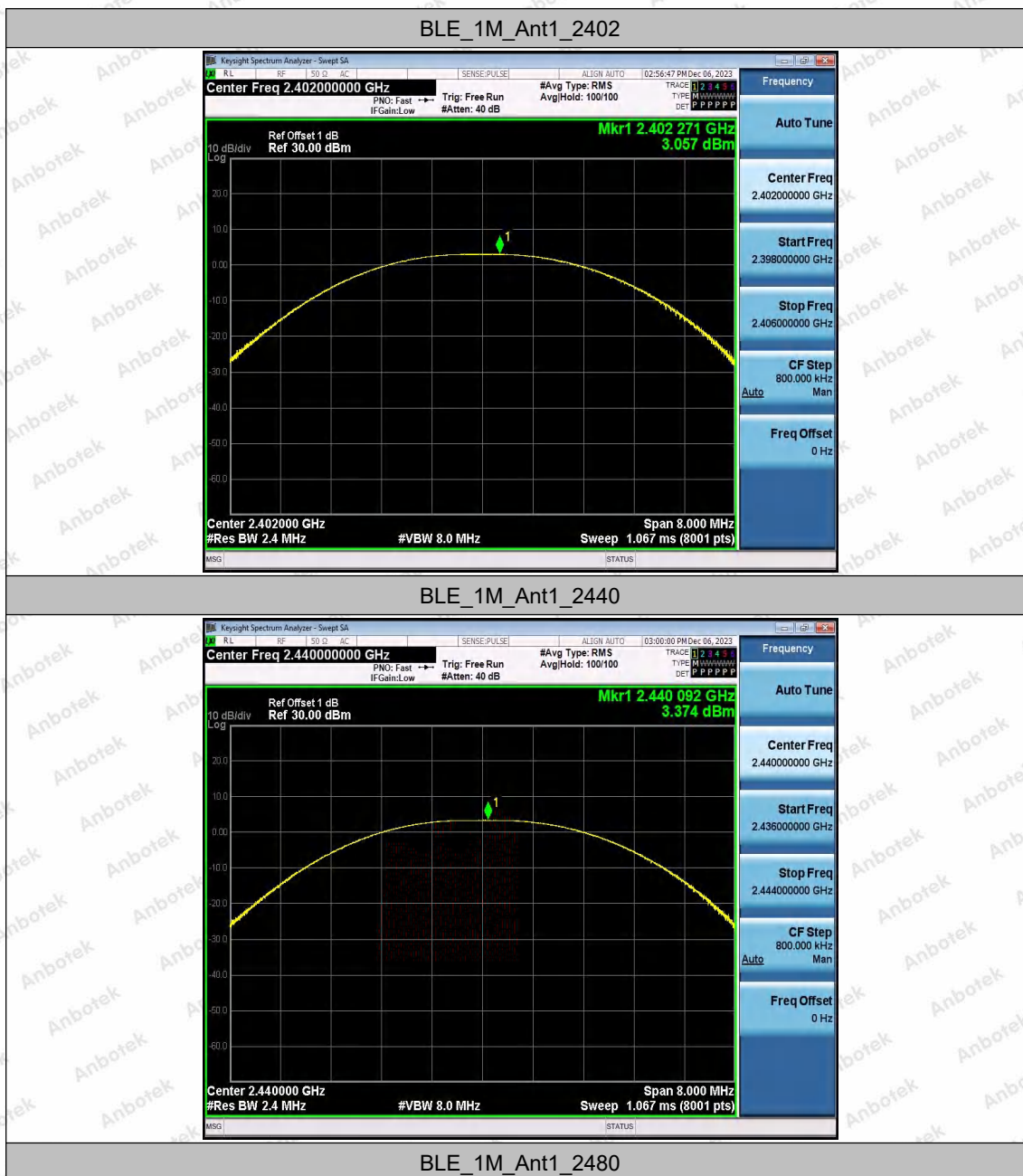
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.06	≤30	PASS
		2440	3.37	≤30	PASS
		2480	3.48	≤30	PASS
BLE_2M	Ant1	2402	3.03	≤30	PASS
		2440	3.35	≤30	PASS
		2480	3.47	≤30	PASS



Test Graphs Peak



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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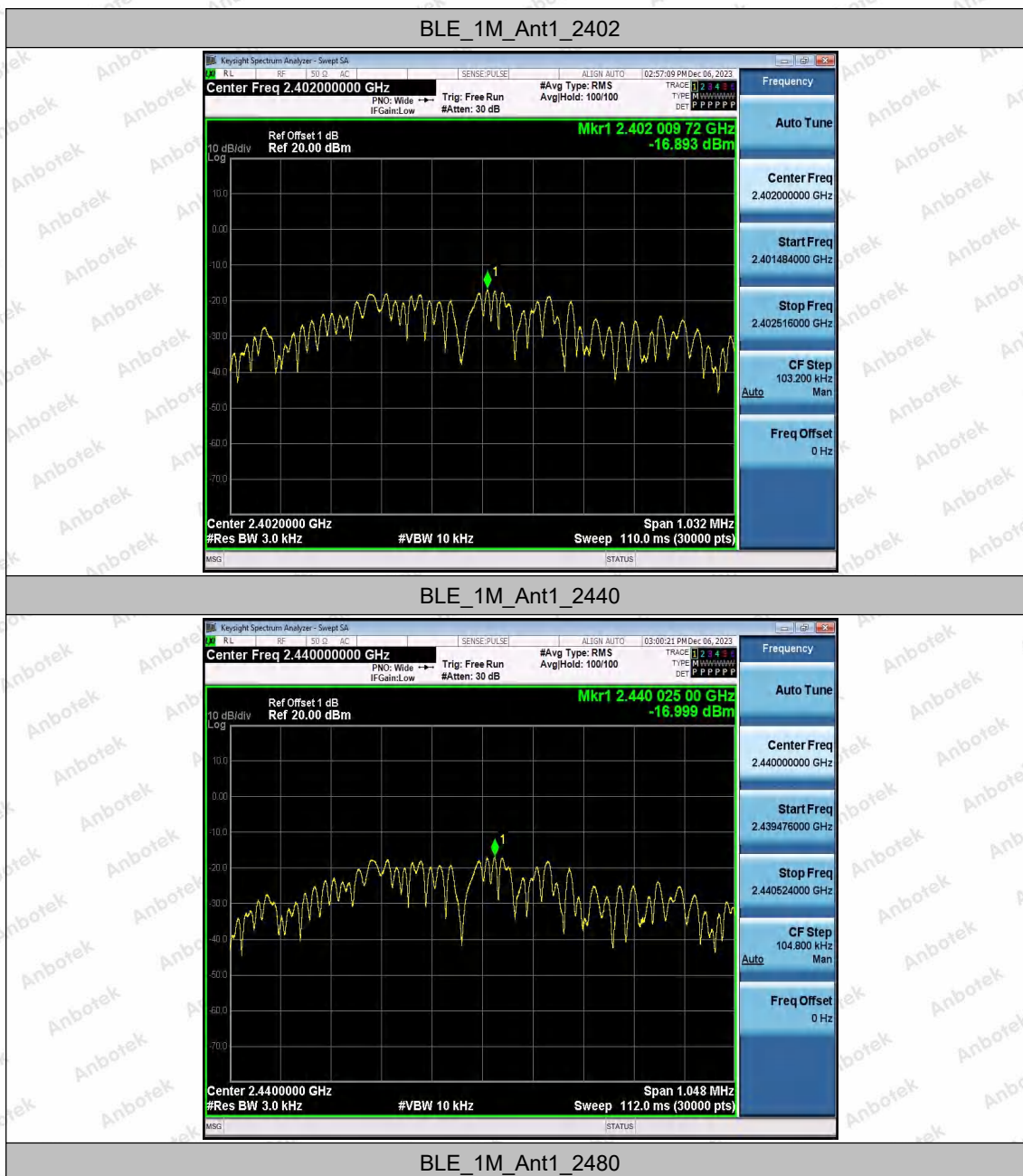
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.89	≤8.00	PASS
		2440	-17.00	≤8.00	PASS
		2480	-16.98	≤8.00	PASS
BLE_2M	Ant1	2402	-19.51	≤8.00	PASS
		2440	-19.13	≤8.00	PASS
		2480	-18.92	≤8.00	PASS



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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Appendix E: Band edge measurements

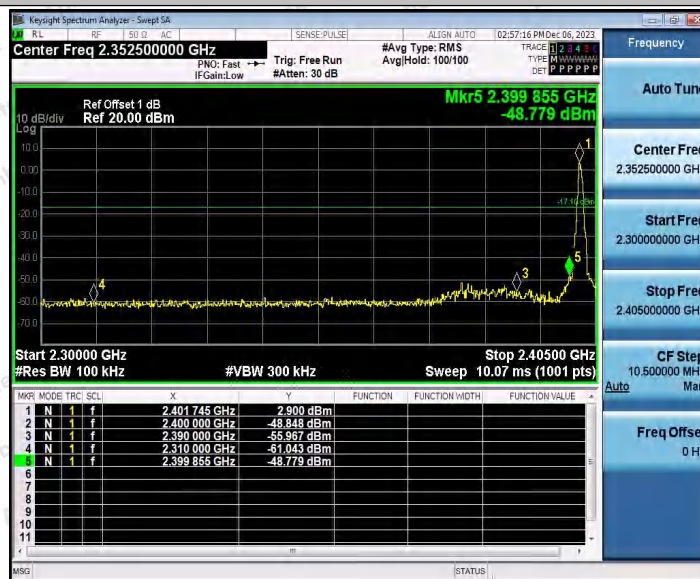
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.90	-48.78	≤-17.1	PASS
		High	2480	3.30	-52.24	≤-16.7	PASS
BLE_2M	Ant1	Low	2402	1.89	-31.66	≤-18.11	PASS
		High	2480	2.72	-46.65	≤-17.28	PASS

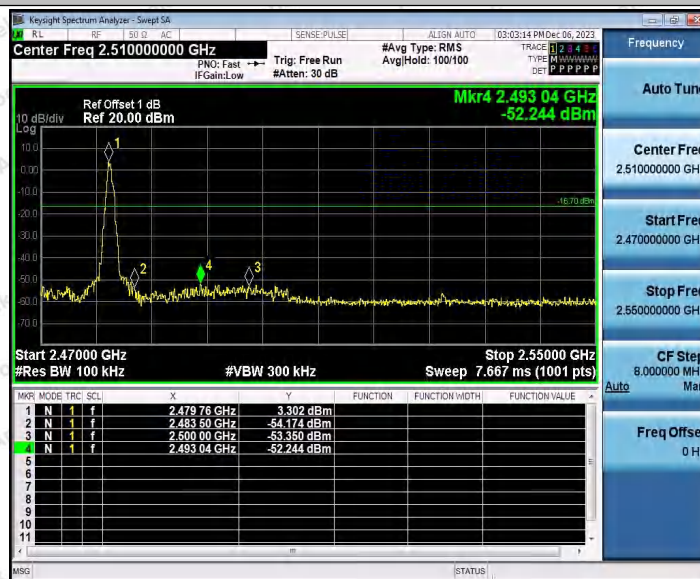


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

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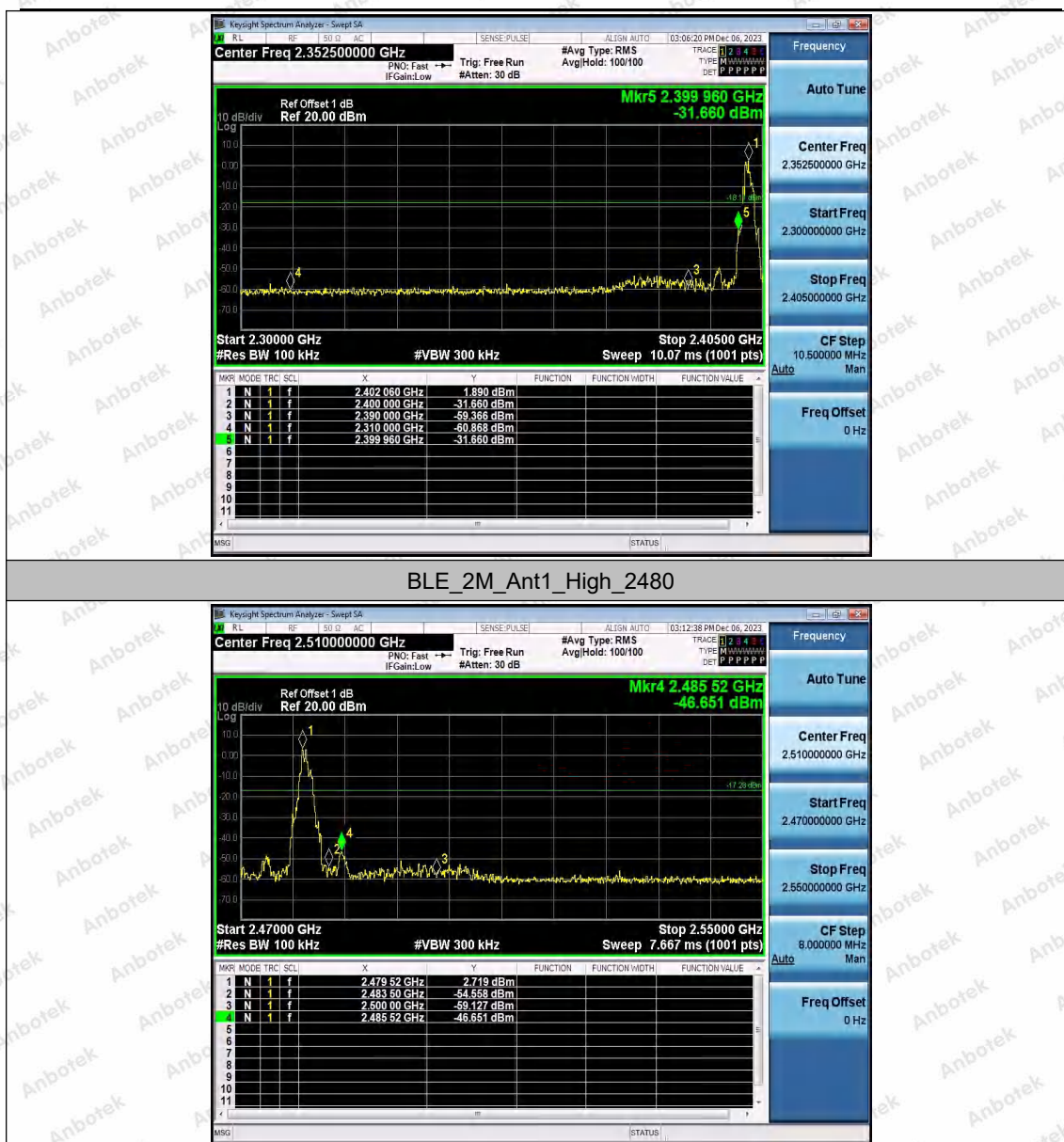


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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.86	2.86	---	PASS
			30~1000	2.86	-69.52	≤-17.14	PASS
			1000~26500	2.86	-48.59	≤-17.14	PASS
		2440	Reference	3.19	3.19	---	PASS
			30~1000	3.19	-69.39	≤-16.81	PASS
			1000~26500	3.19	-45.02	≤-16.81	PASS
		2480	Reference	3.28	3.28	---	PASS
			30~1000	3.28	-68.96	≤-16.72	PASS
			1000~26500	3.28	-49.71	≤-16.72	PASS
BLE_2M	Ant1	2402	Reference	2.13	2.13	---	PASS
			30~1000	2.13	-68.78	≤-17.87	PASS
			1000~26500	2.13	-45.82	≤-17.87	PASS
		2440	Reference	2.46	2.46	---	PASS
			30~1000	2.46	-60.00	≤-17.54	PASS
			1000~26500	2.46	-47.72	≤-17.54	PASS
		2480	Reference	2.70	2.70	---	PASS
			30~1000	2.70	-68.14	≤-17.3	PASS
			1000~26500	2.70	-51.20	≤-17.3	PASS

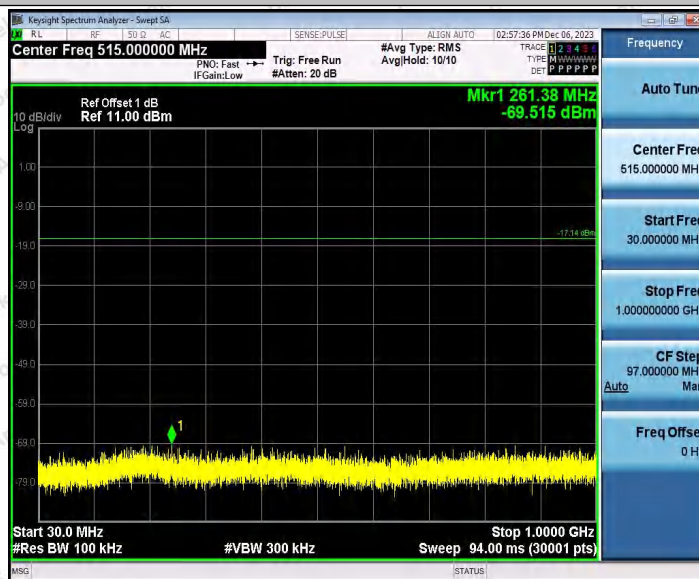


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

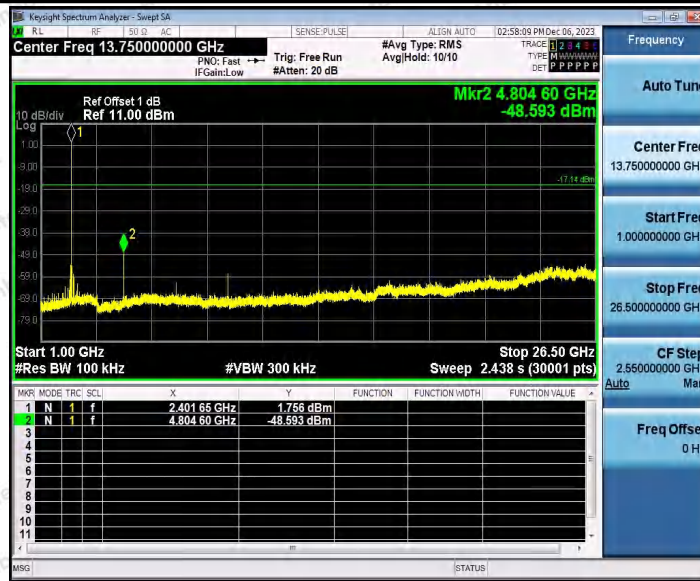
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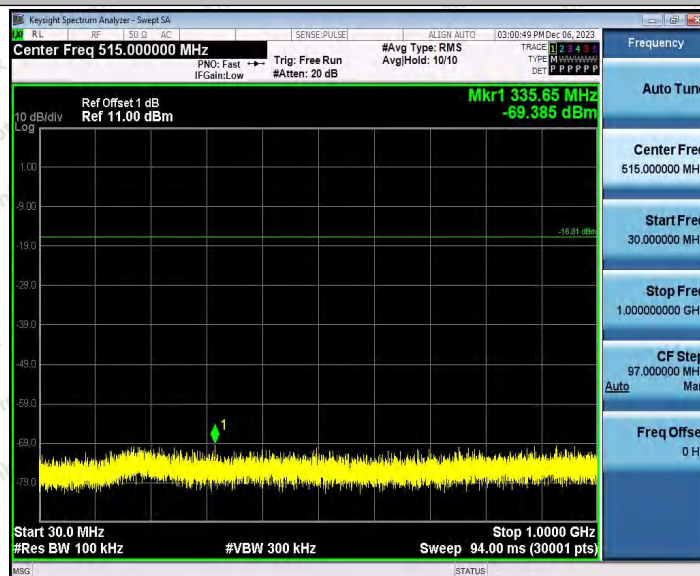




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



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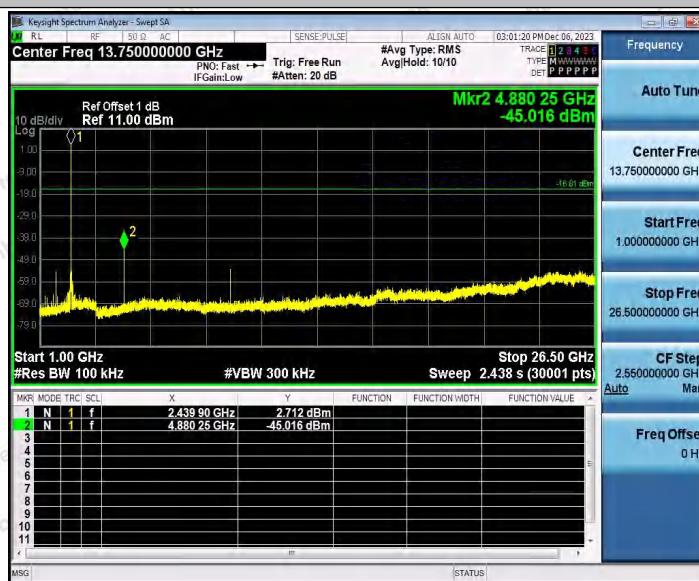
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

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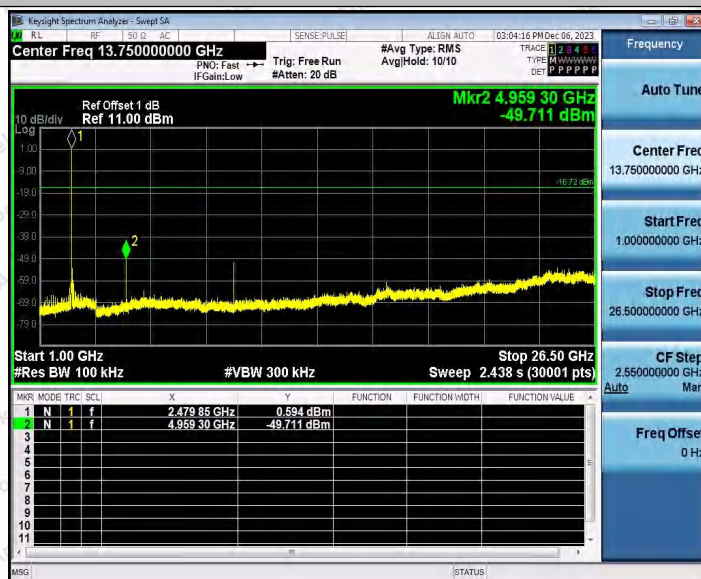


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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



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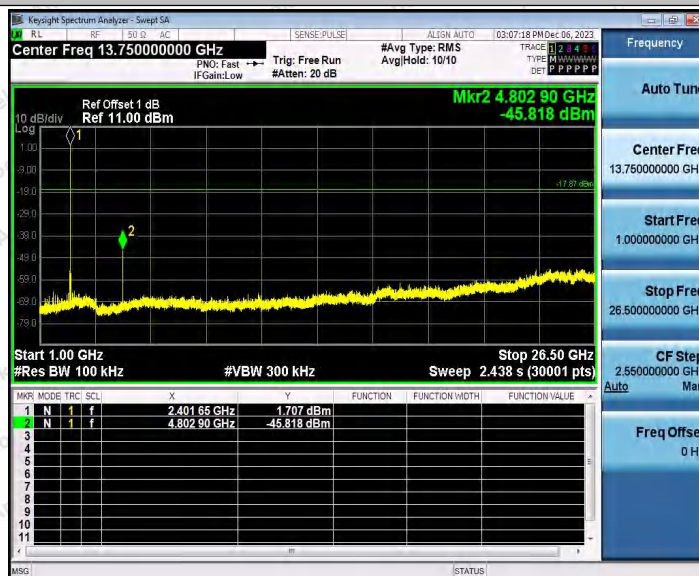
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BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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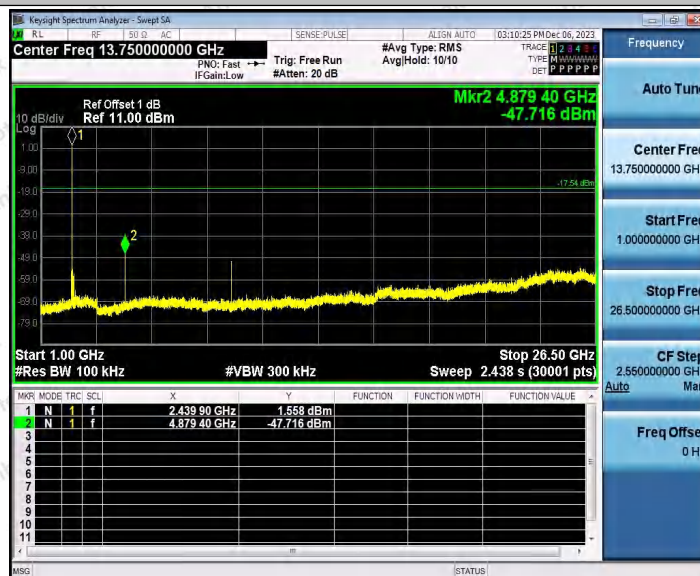




BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



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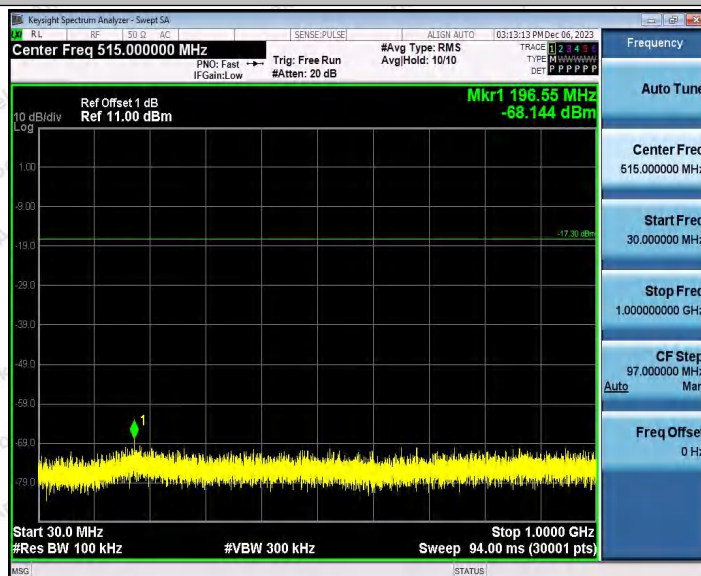
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500

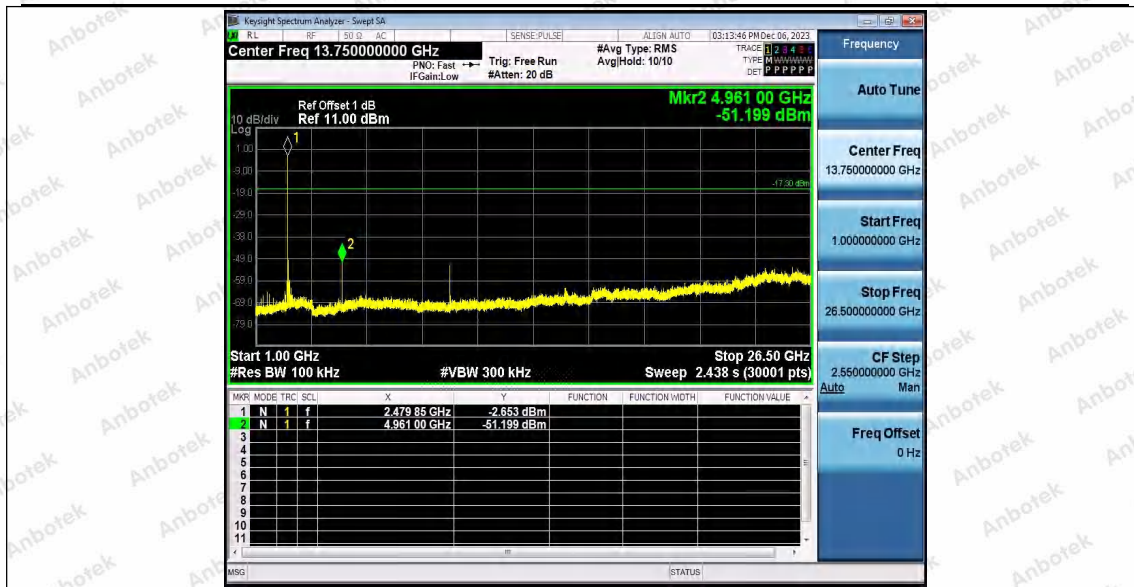
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Appendix G: Duty Cycle

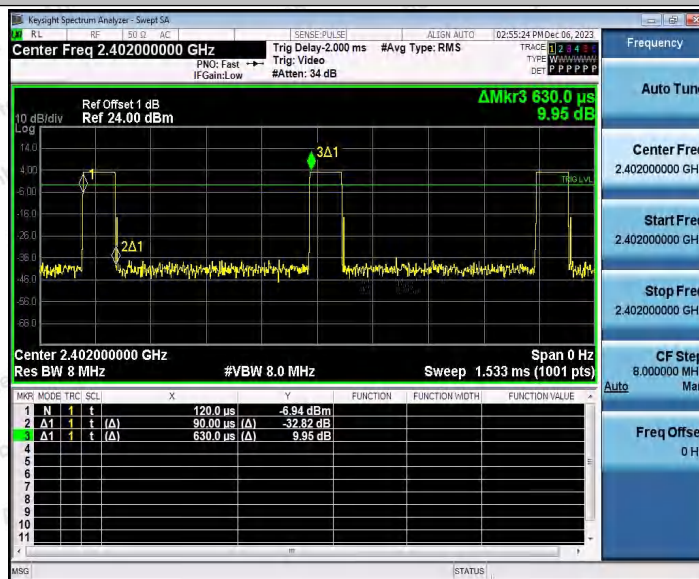
Test Result

TestMode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.09	0.63	14.29	8.45
		2440	0.09	0.63	14.29	8.45
		2480	0.08	0.62	12.90	8.89
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

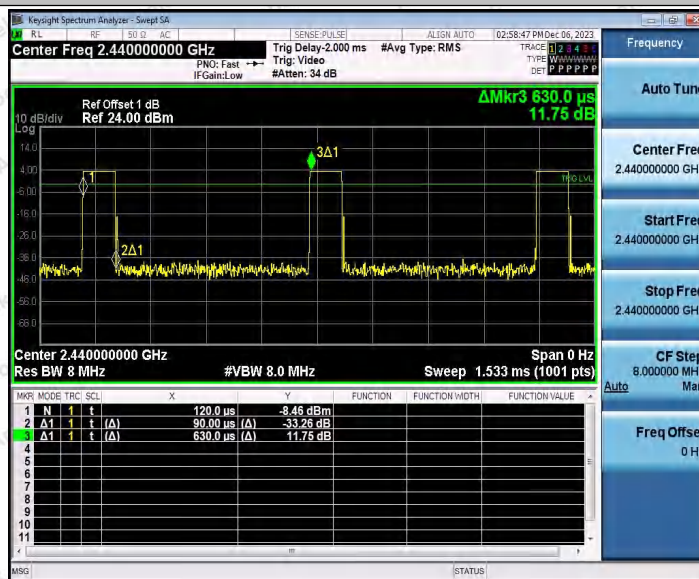


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

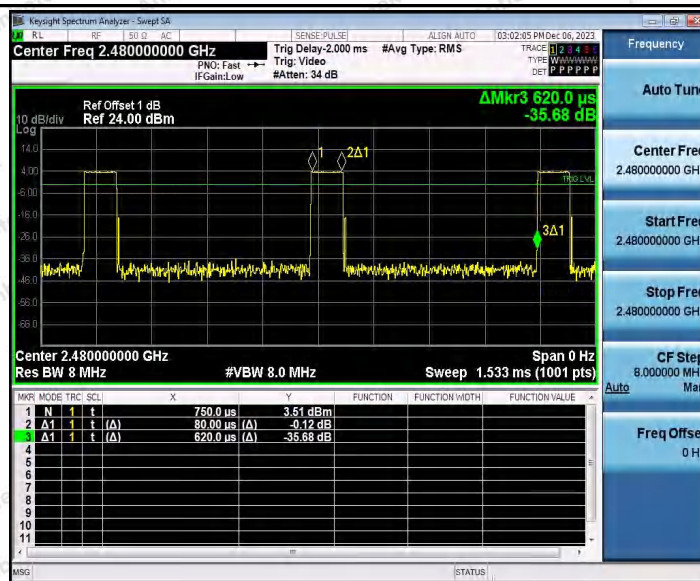
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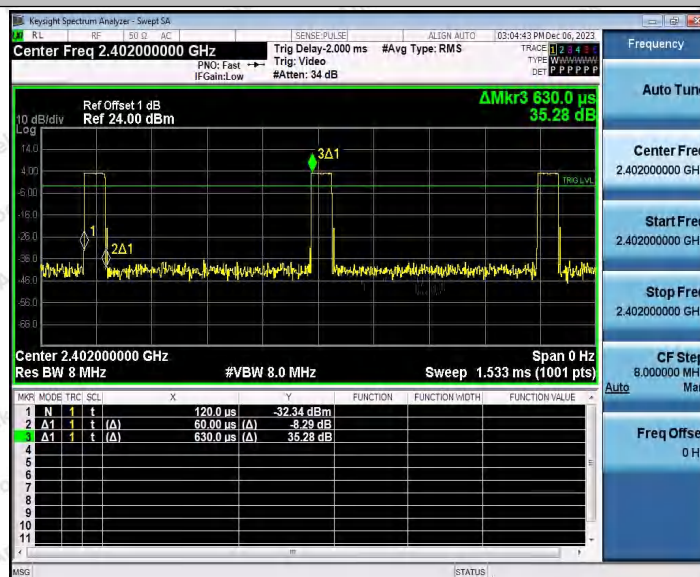


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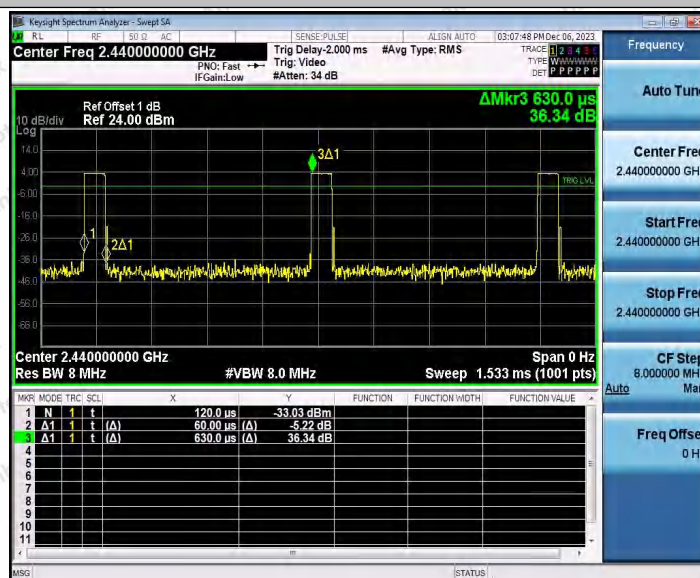




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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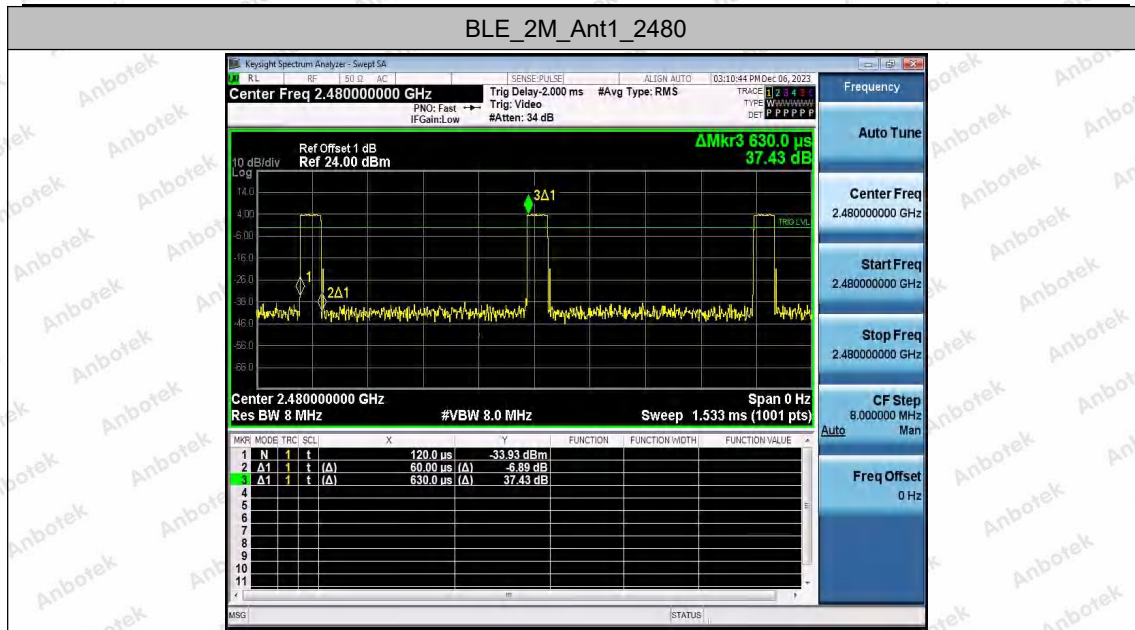


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