

Appendix Test Data

Report No.:	18220WC40040202	Test Sample No.:	1-2-2
Start Test Date:	2024.3.15	Finish Test Date:	2024.3.15
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25℃	Relative Humidity:	48%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.508	2401.696	2402.204	0.5	PASS
		2440	0.504	2439.696	2440.200	0.5	PASS
		2480	0.504	2479.696	2480.200	0.5	PASS
BLE_2M	Ant1	2402	0.836	2401.440	2402.276	0.5	PASS
		2440	0.832	2439.436	2440.268	0.5	PASS
		2480	0.672	2479.444	2480.116	0.5	PASS



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0171	2401.5295	2402.5466	---	---
		2440	1.0029	2439.5302	2440.5331	---	---
		2480	1.0150	2479.5286	2480.5436	---	---
BLE_2M	Ant1	2402	2.0265	2401.0292	2403.0557	---	---
		2440	2.0212	2439.0299	2441.0511	---	---
		2480	2.0282	2479.0272	2481.0554	---	---

Test Graphs



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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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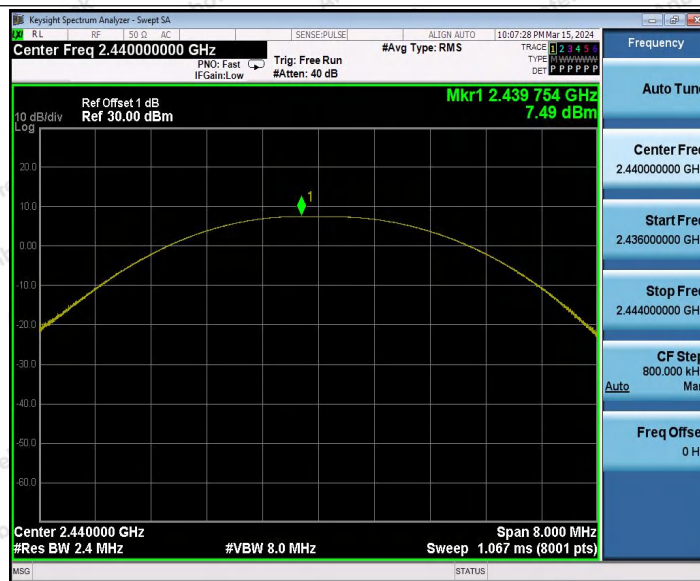
Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.27	≤30	9.4	≤36	PASS
		2440	7.49	≤30	9.62	≤36	PASS
		2480	7.69	≤30	9.82	≤36	PASS
BLE_2M	Ant1	2402	7.33	≤30	9.46	≤36	PASS
		2440	7.54	≤30	9.67	≤36	PASS
		2480	7.72	≤30	9.85	≤36	PASS

Test Graphs Peak





BLE_1M_Ant1_2480



BLE_2M_Ant1_2402

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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

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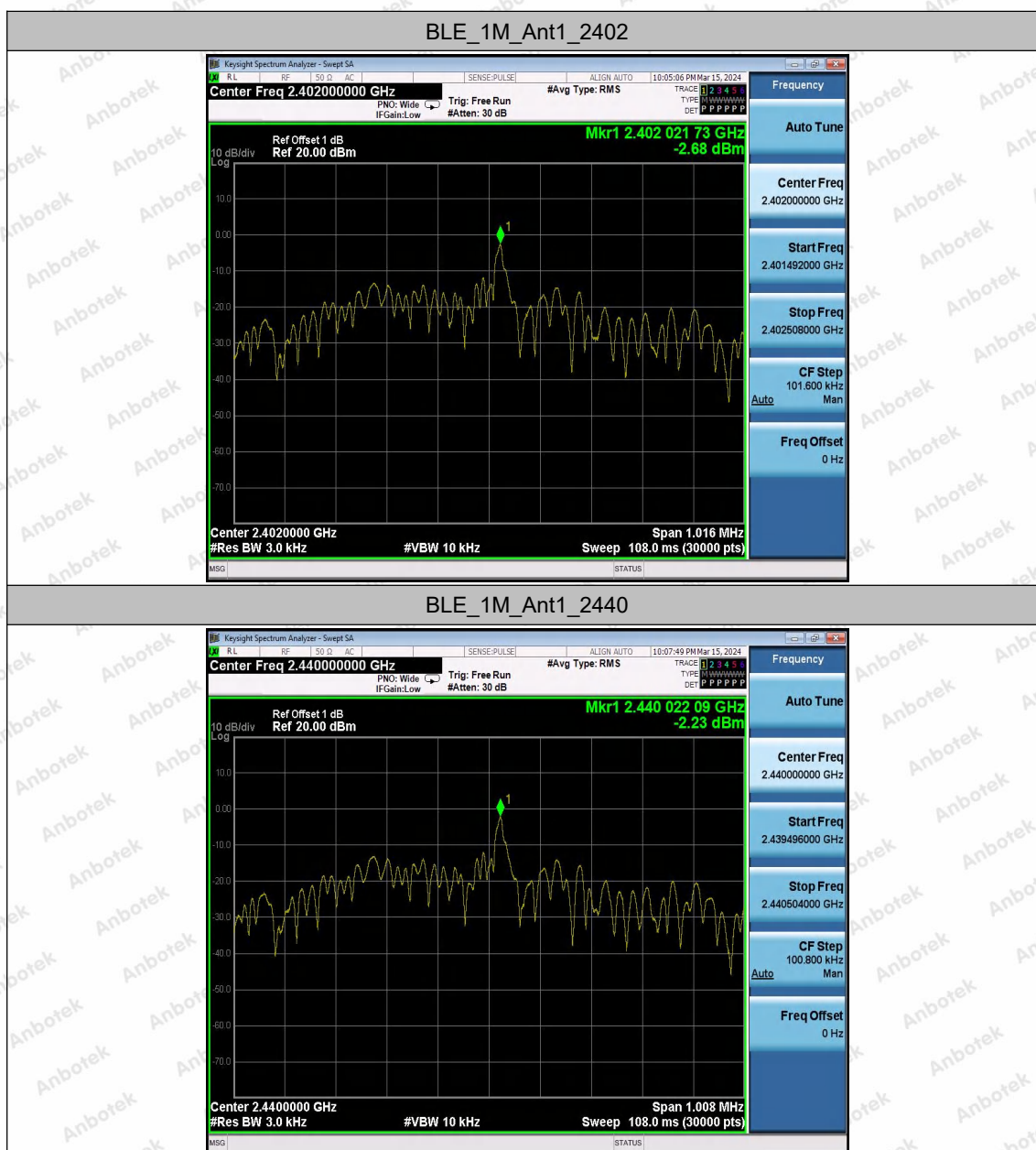


Appendix D: Maximum Power Spectral Density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-2.68	≤8.00	PASS
		2440	-2.23	≤8.00	PASS
		2480	-2.04	≤8.00	PASS
BLE_2M	Ant1	2402	-3.09	≤8.00	PASS
		2440	-2.65	≤8.00	PASS
		2480	-2.44	≤8.00	PASS

Test Graphs



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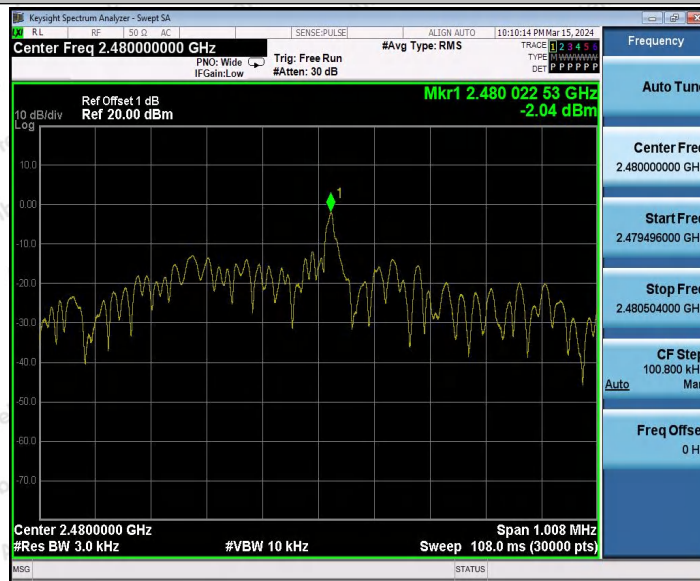
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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

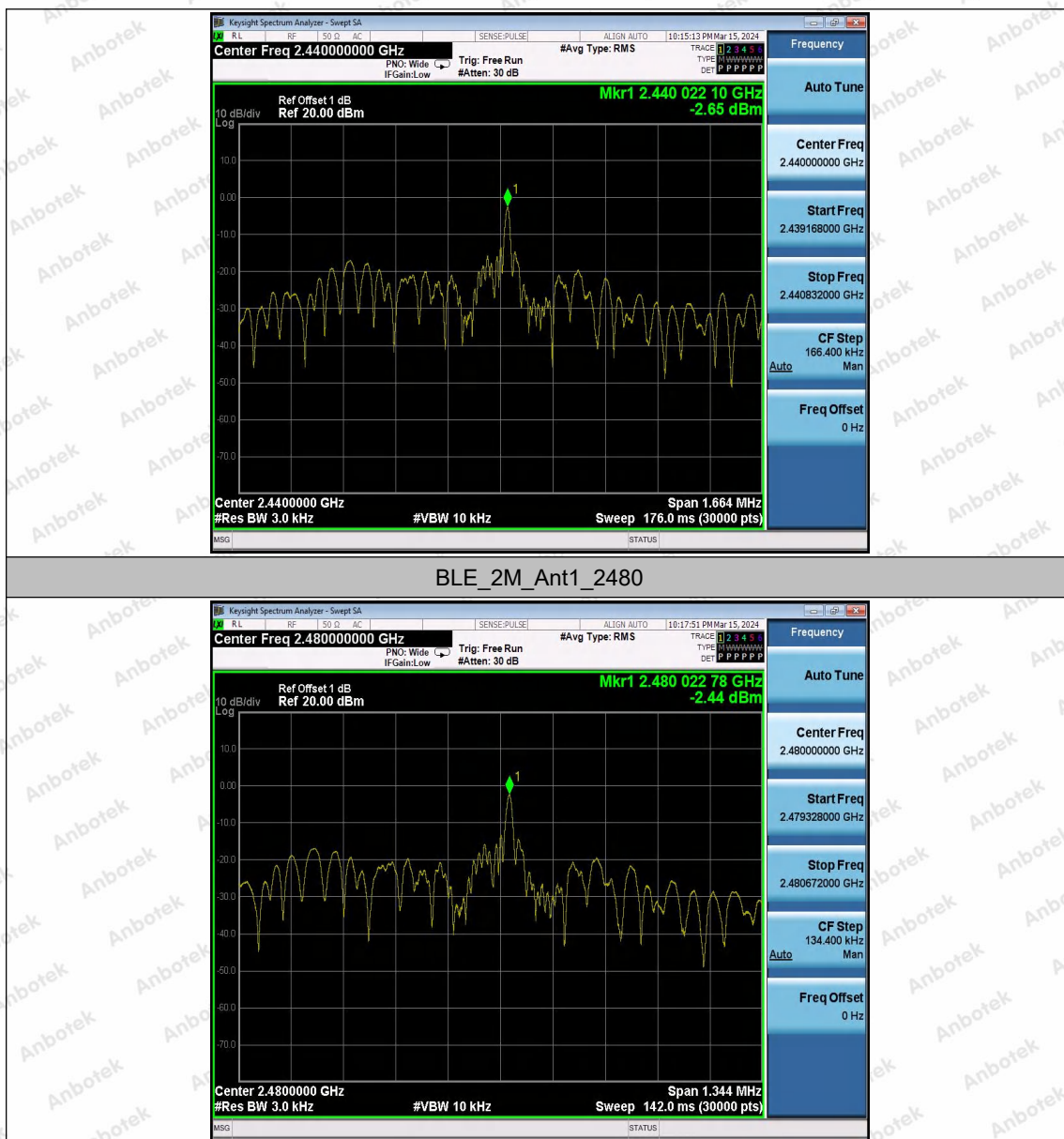
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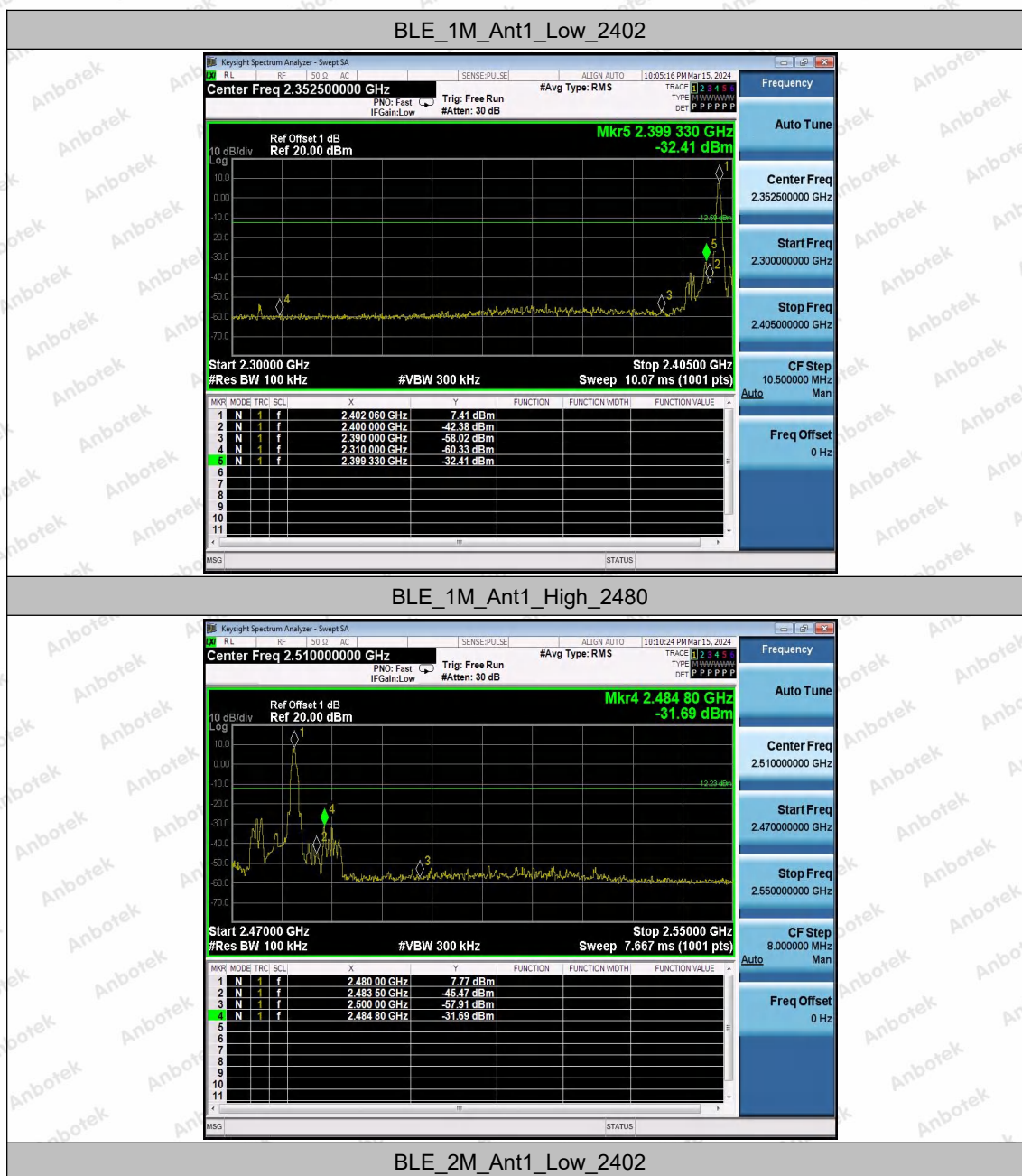


Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.41	-32.41	≤-12.59	PASS
		High	2480	7.77	-31.69	≤-12.23	PASS
BLE_2M	Ant1	Low	2402	7.34	-27.52	≤-12.66	PASS
		High	2480	7.75	-31.39	≤-12.25	PASS

Test Graphs



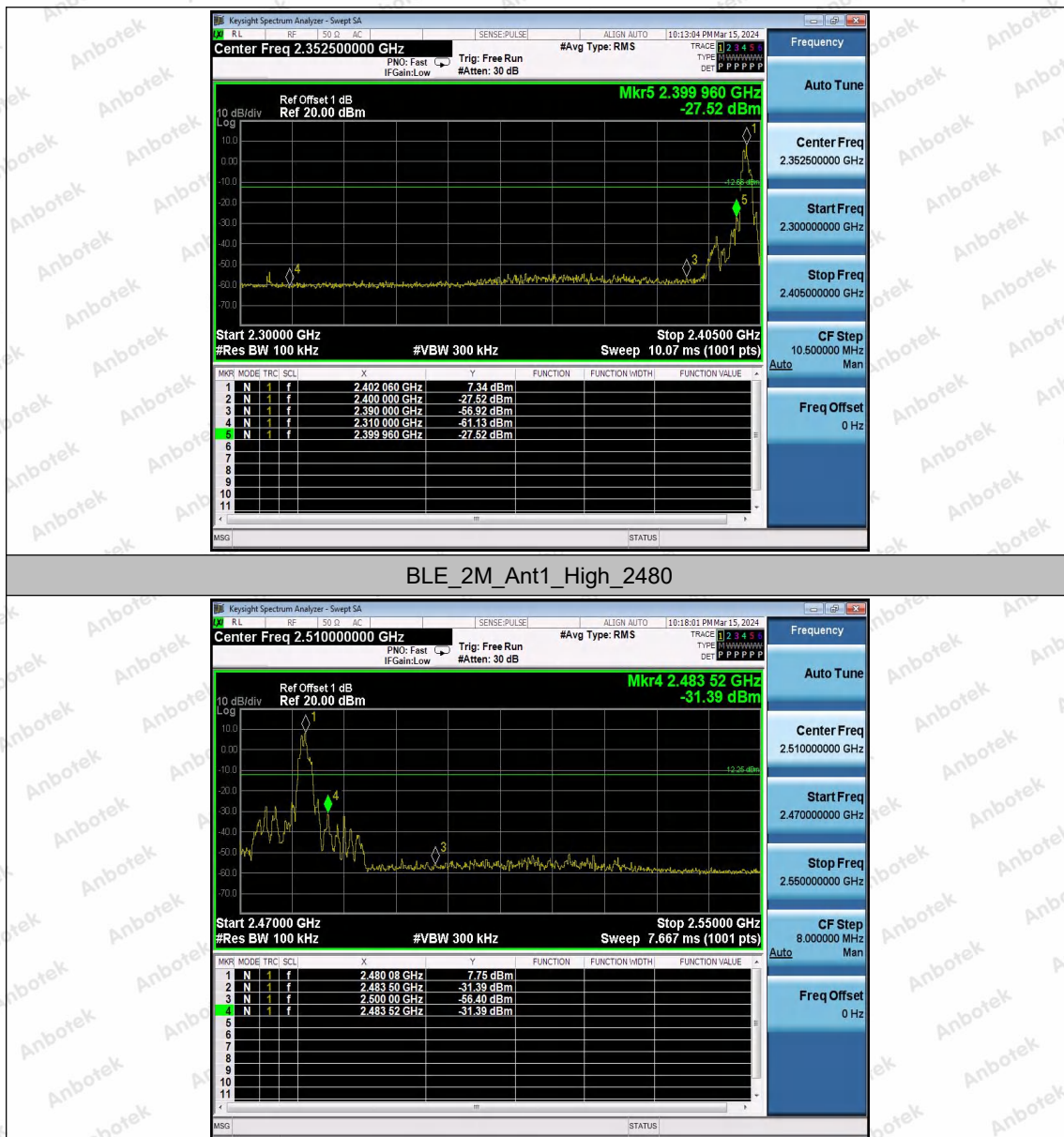
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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	7.22	7.22	---	PASS
			30~1000	7.22	-68.1	≤-12.78	PASS
			1000~26500	7.22	-40.27	≤-12.78	PASS
		2440	Reference	7.43	7.43	---	PASS
			30~1000	7.43	-68.35	≤-12.57	PASS
			1000~26500	7.43	-39.55	≤-12.57	PASS
		2480	Reference	7.65	7.65	---	PASS
			30~1000	7.65	-68.04	≤-12.35	PASS
			1000~26500	7.65	-40.7	≤-12.35	PASS
BLE_2M	Ant1	2402	Reference	7.23	7.23	---	PASS
			30~1000	7.23	-68.56	≤-12.77	PASS
			1000~26500	7.23	-37.43	≤-12.77	PASS
		2440	Reference	7.45	7.45	---	PASS
			30~1000	7.45	-68.79	≤-12.55	PASS
			1000~26500	7.45	-39.67	≤-12.55	PASS
		2480	Reference	7.65	7.65	---	PASS
			30~1000	7.65	-67.88	≤-12.35	PASS
			1000~26500	7.65	-40.62	≤-12.35	PASS



Test Graphs



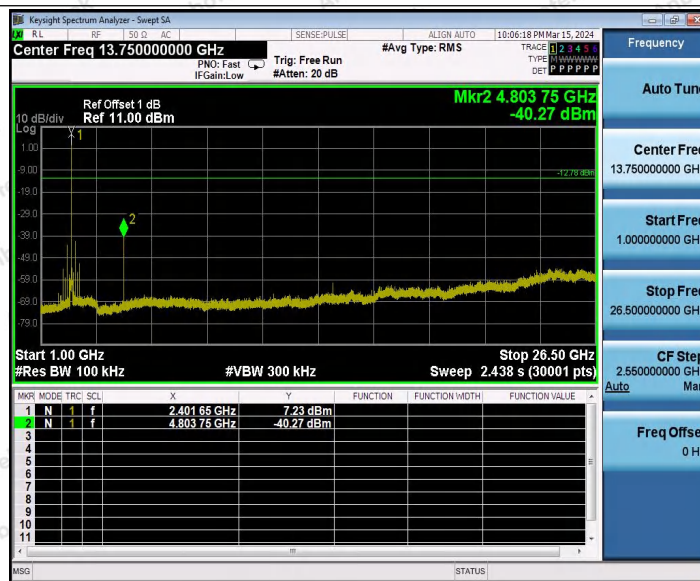
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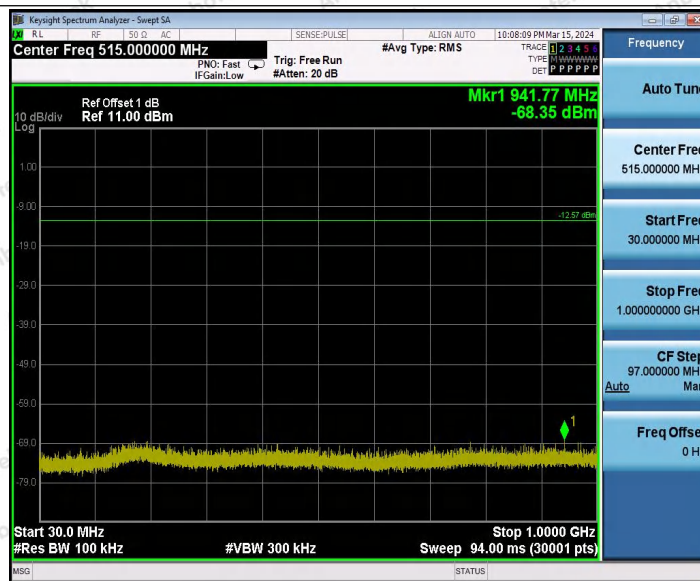


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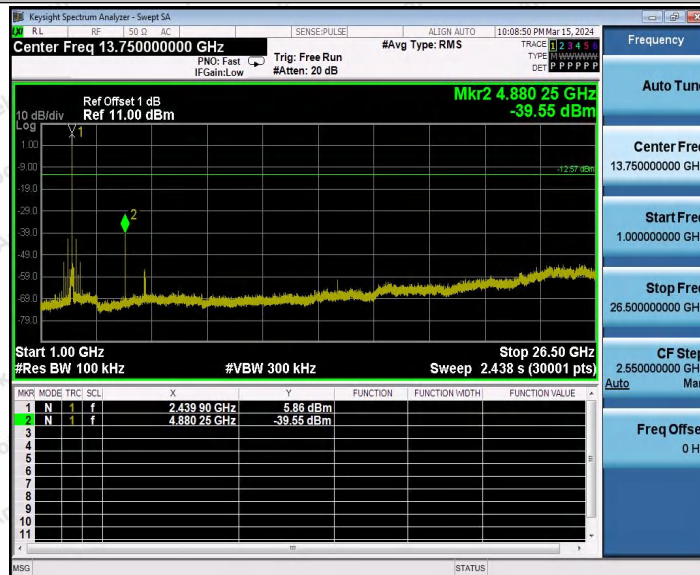


BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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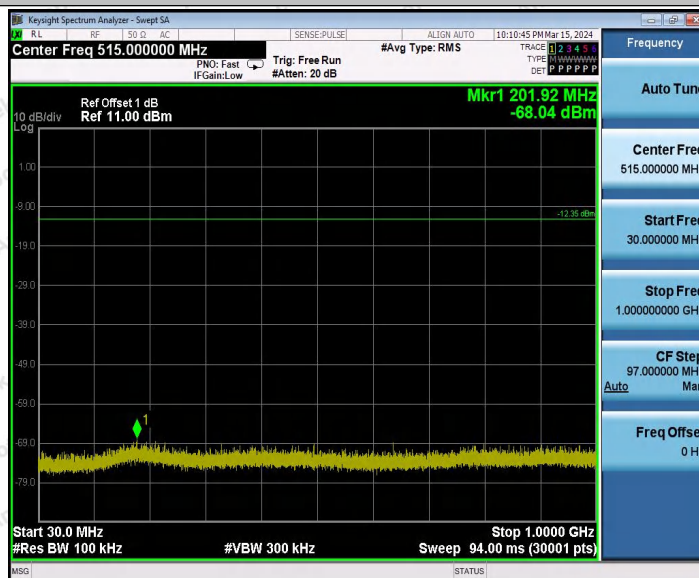


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BLE 1M Ant1 2480 30~1000



BLE	1M	Ant1	2480	1000~26500
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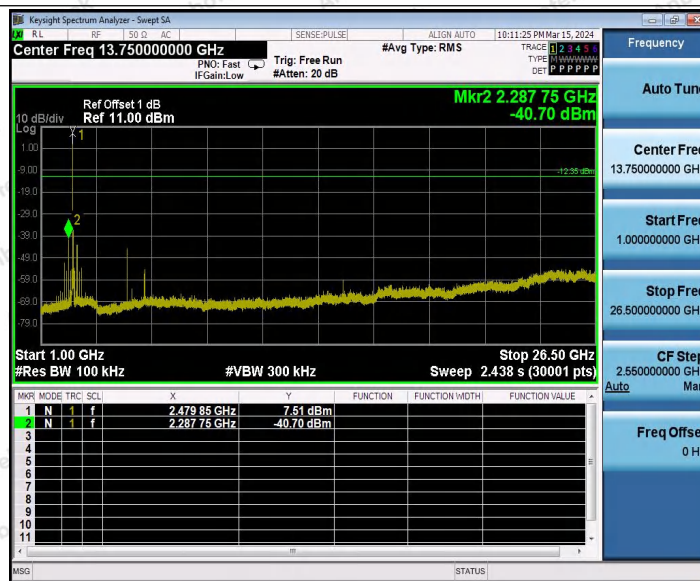
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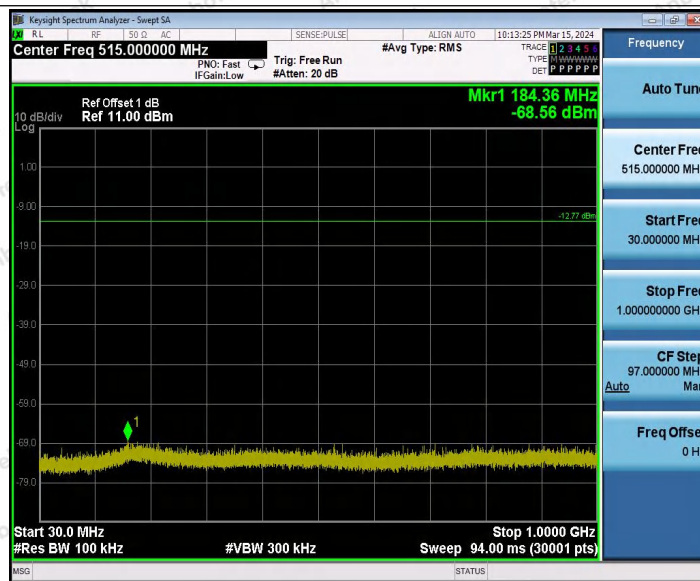


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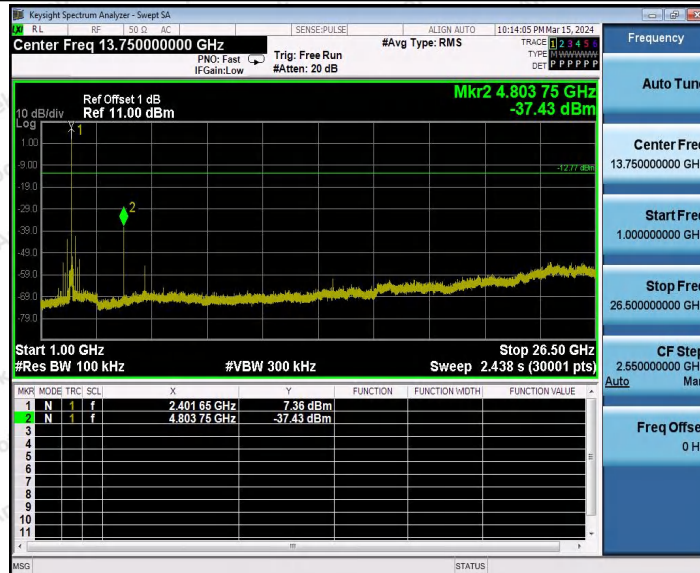


BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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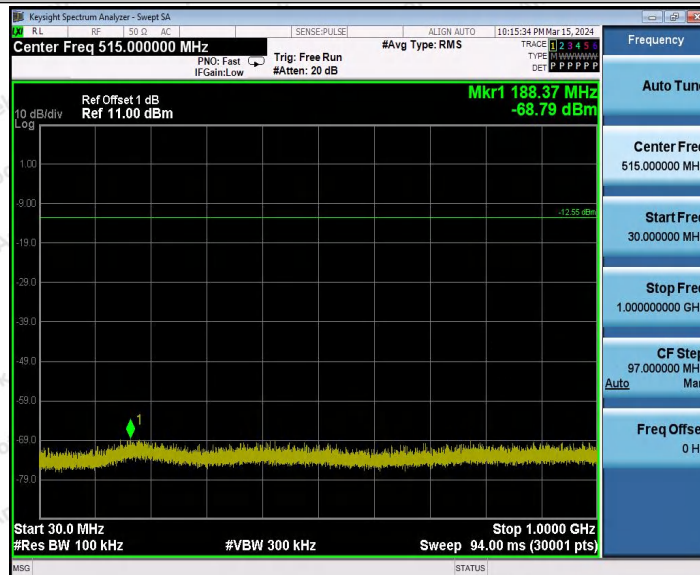


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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

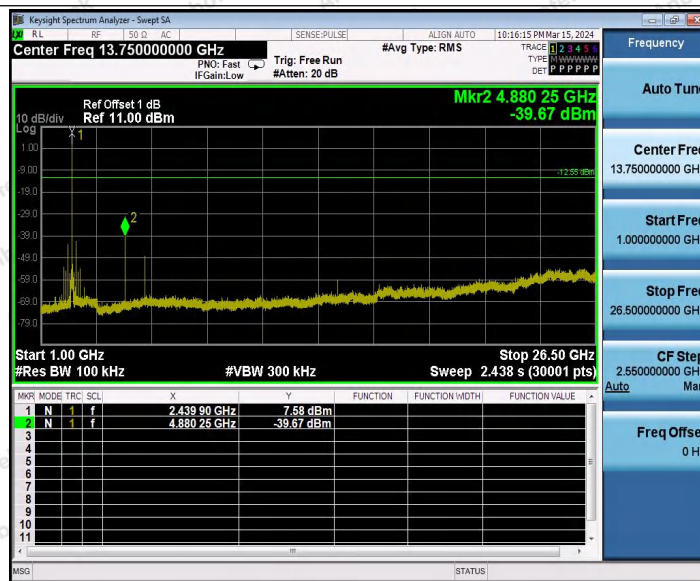
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000

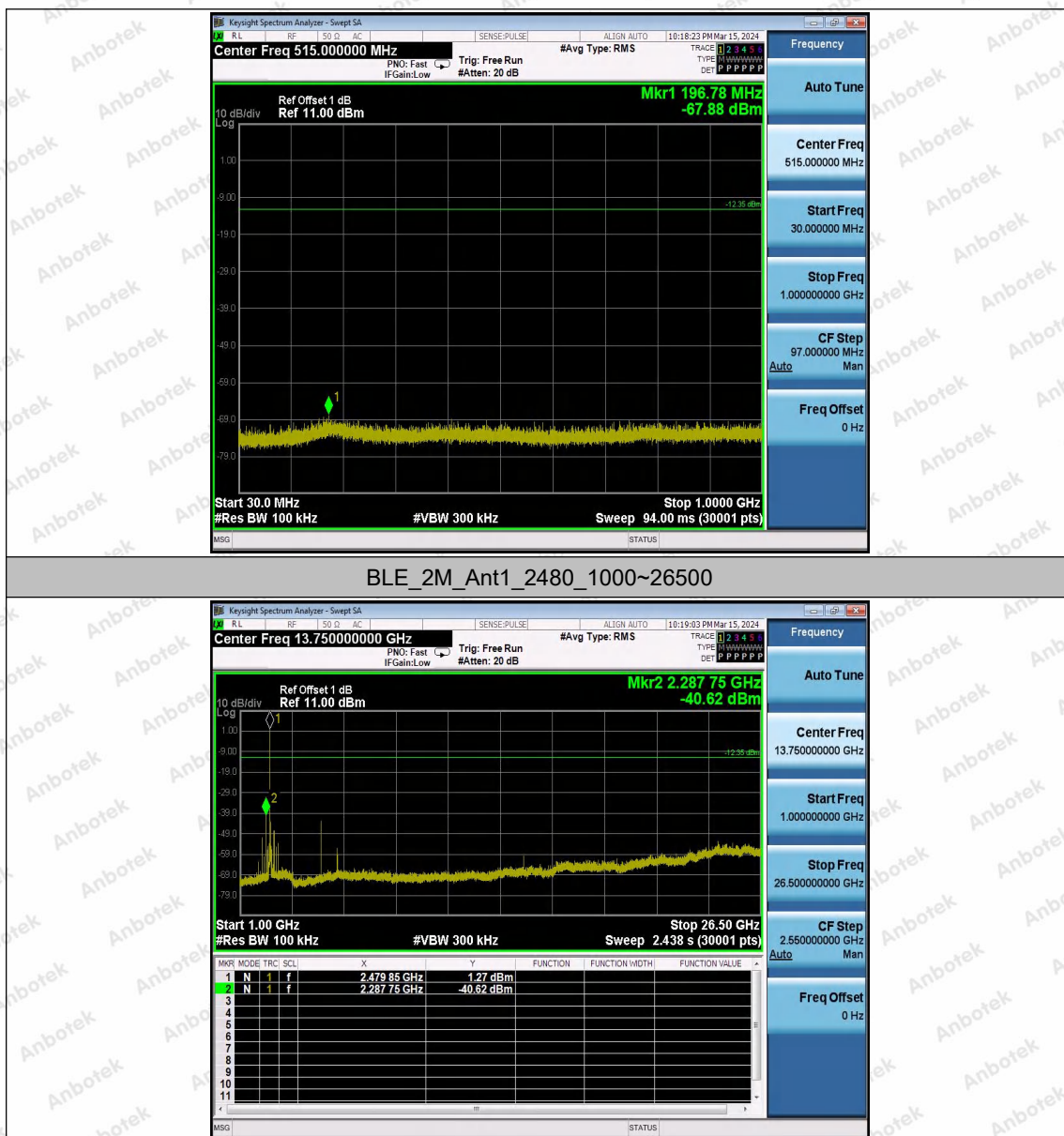
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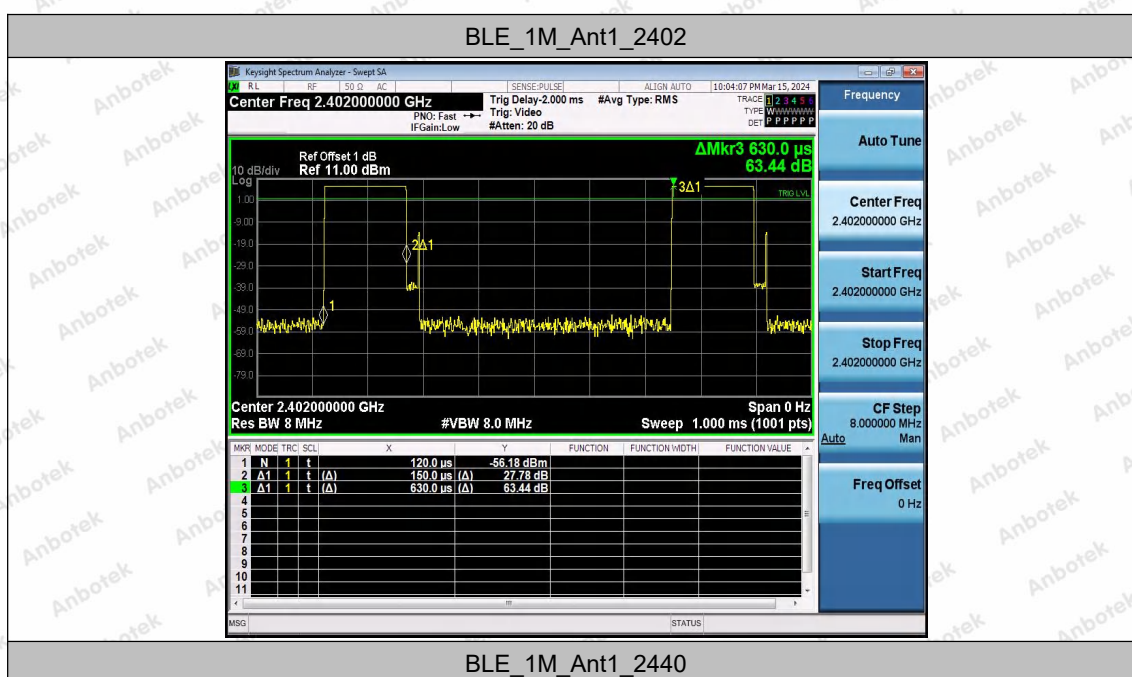


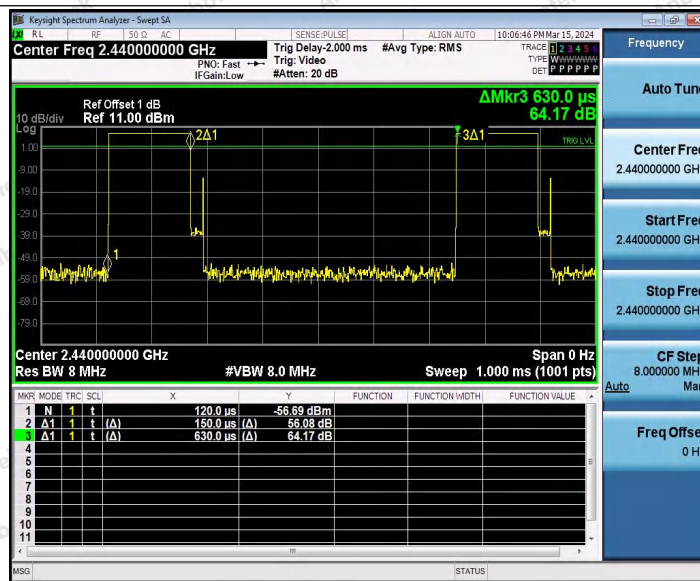
Appendix G: Duty Cycle

Test Result

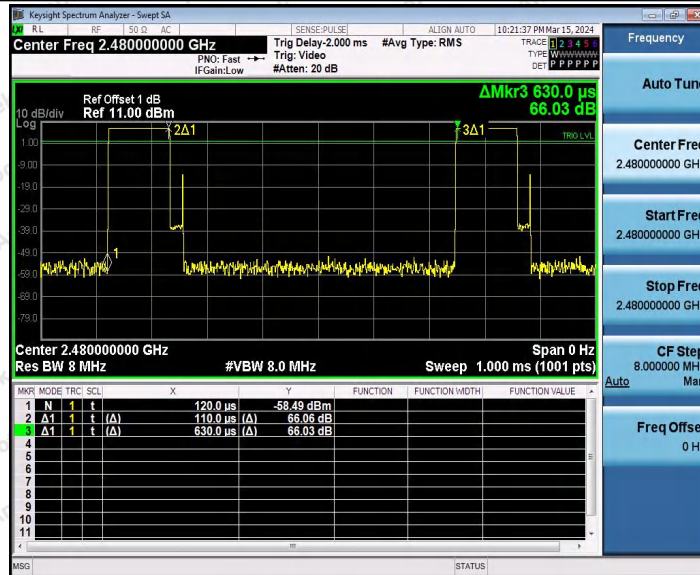
Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.15	0.63	23.81	6.23
		2440	0.15	0.63	23.81	6.23
		2480	0.11	0.63	17.46	7.58
BLE_2M	Ant1	2402	0.11	0.63	17.46	7.58
		2440	0.11	0.63	17.46	7.58
		2480	0.11	0.63	17.46	7.58

Test Graphs





BLE_1M_Ant1_2480



BLE_2M_Ant1_2402

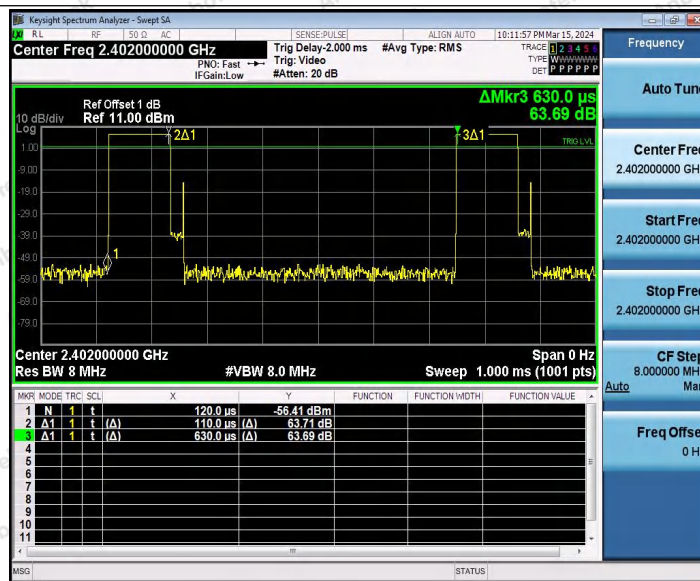
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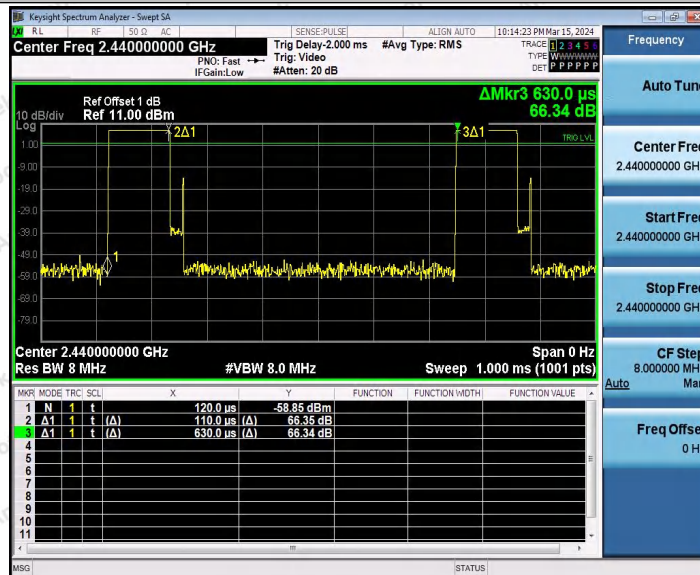


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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

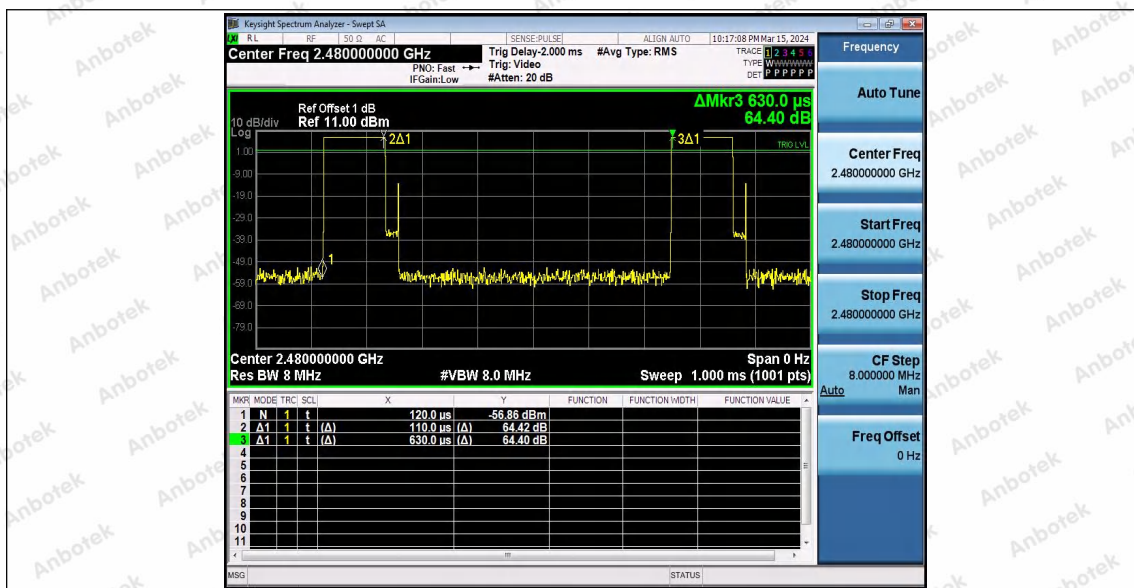
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