

Appendix Test Data

Report No.:	18220WC40023001	Test Sample No.:	1-2-2
Start Test Date:	2024.2.24	Finish Test Date:	2024.2.24
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	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	0.536	2401.692	2402.228	0.5	PASS
		2440	0.512	2439.700	2440.212	0.5	PASS
		2480	0.532	2479.688	2480.220	0.5	PASS
BLE_2M	Ant1	2402	0.824	2401.432	2402.256	0.5	PASS
		2440	0.824	2439.444	2440.268	0.5	PASS
		2480	0.828	2479.440	2480.268	0.5	PASS

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Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_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	1.0588	2401.5033	2402.5621
		2440	1.0754	2439.4786	2440.5540
		2480	1.1324	2479.4244	2480.5568
BLE_2M	Ant1	2402	2.0617	2401.0147	2403.0764
		2440	2.0531	2439.0143	2441.0674
		2480	2.0772	2479.0066	2481.0838

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Test Graphs



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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

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.17	≤30	PASS
		2440	3.55	≤30	PASS
		2480	3.66	≤30	PASS
BLE_2M	Ant1	2402	3.18	≤30	PASS
		2440	3.54	≤30	PASS
		2480	3.63	≤30	PASS

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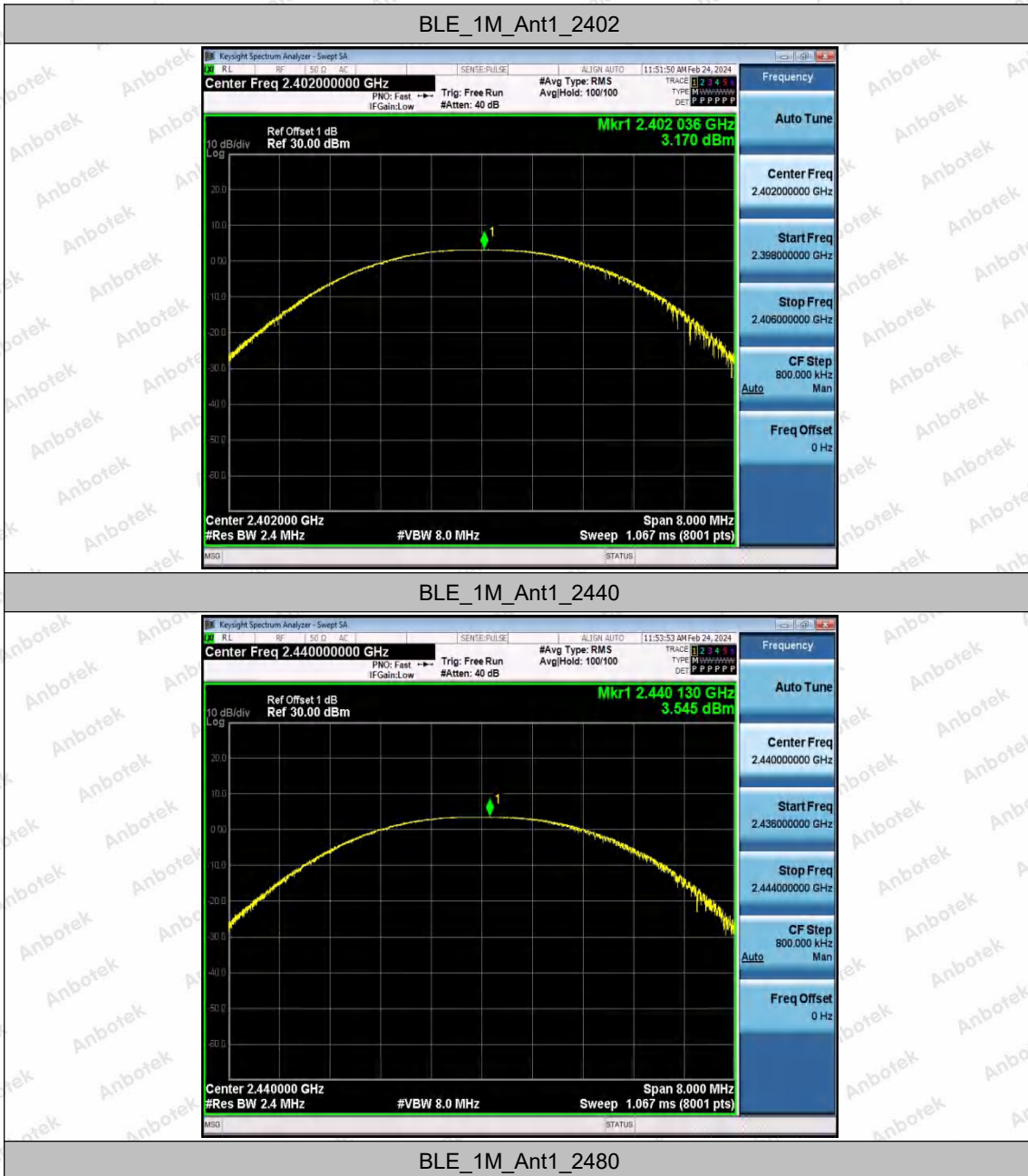
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Test Graphs Peak



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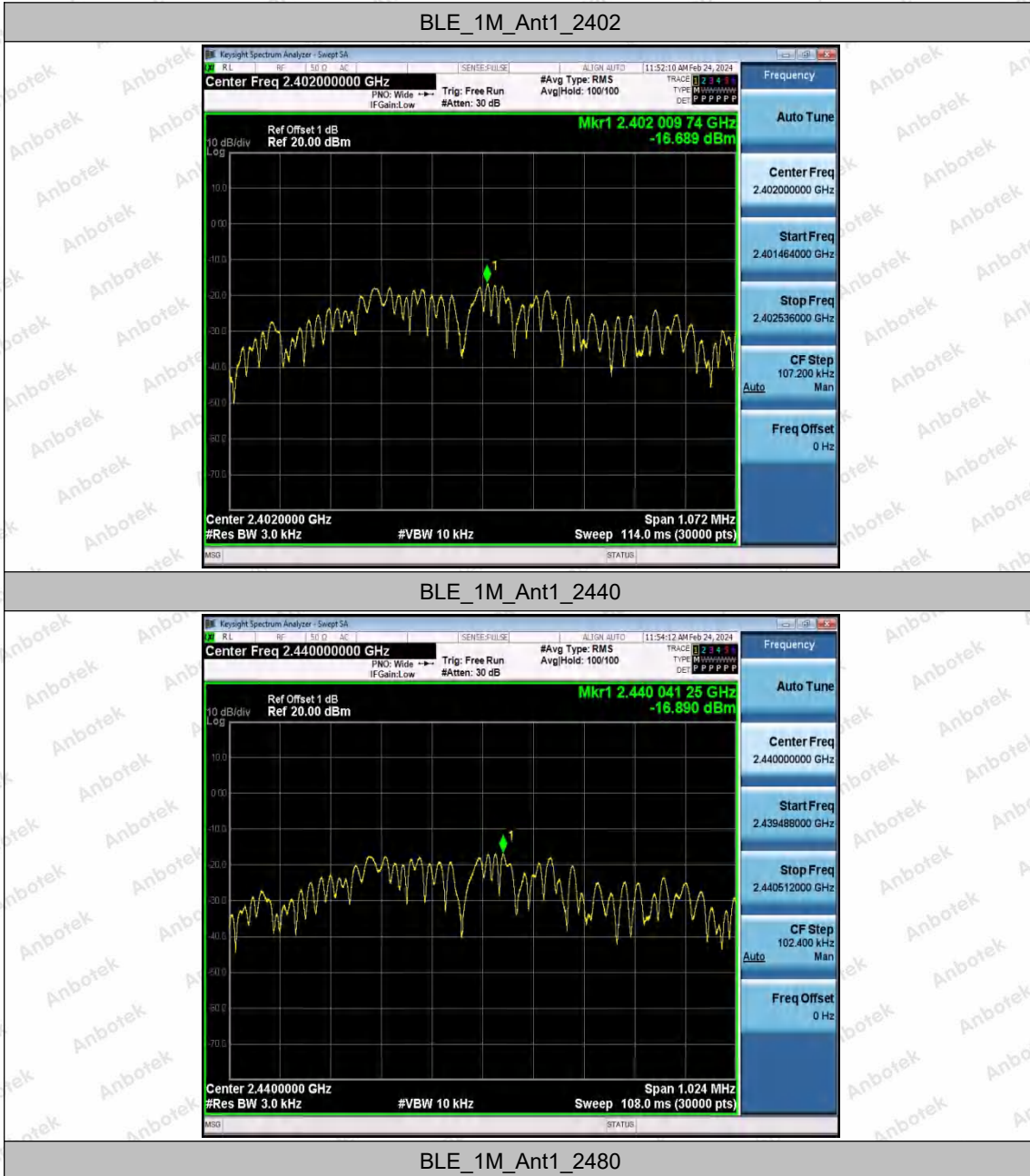
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.69	≤8.00	PASS
		2440	-16.89	≤8.00	PASS
		2480	-16.7	≤8.00	PASS
BLE_2M	Ant1	2402	-19.34	≤8.00	PASS
		2440	-18.97	≤8.00	PASS
		2480	-18.79	≤8.00	PASS



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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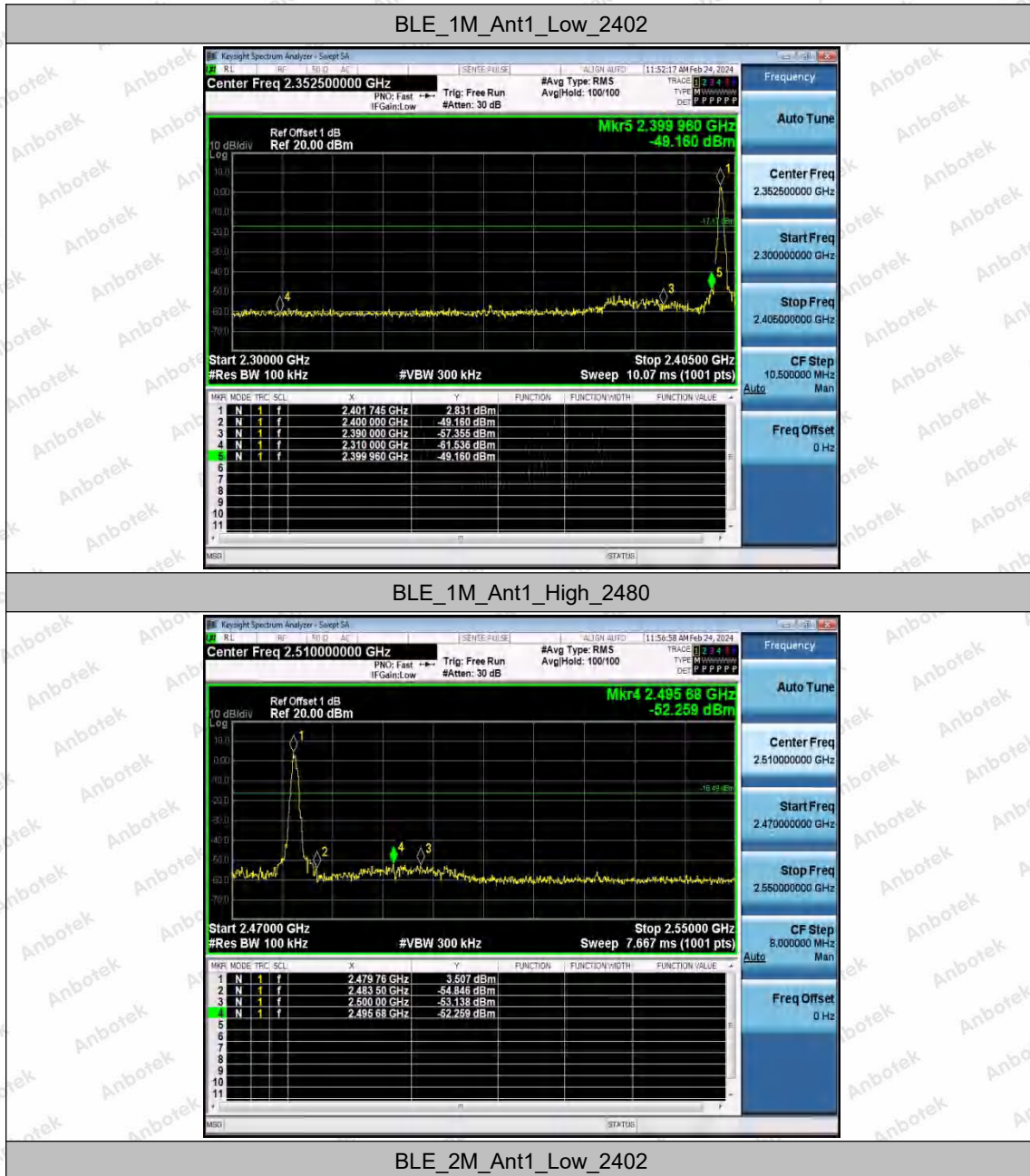
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.83	-49.16	≤-17.17	PASS
		High	2480	3.51	-52.26	≤-16.49	PASS
BLE_2M	Ant1	Low	2402	2.55	-30.25	≤-17.45	PASS
		High	2480	2.56	-46.98	≤-17.44	PASS



Test Graphs

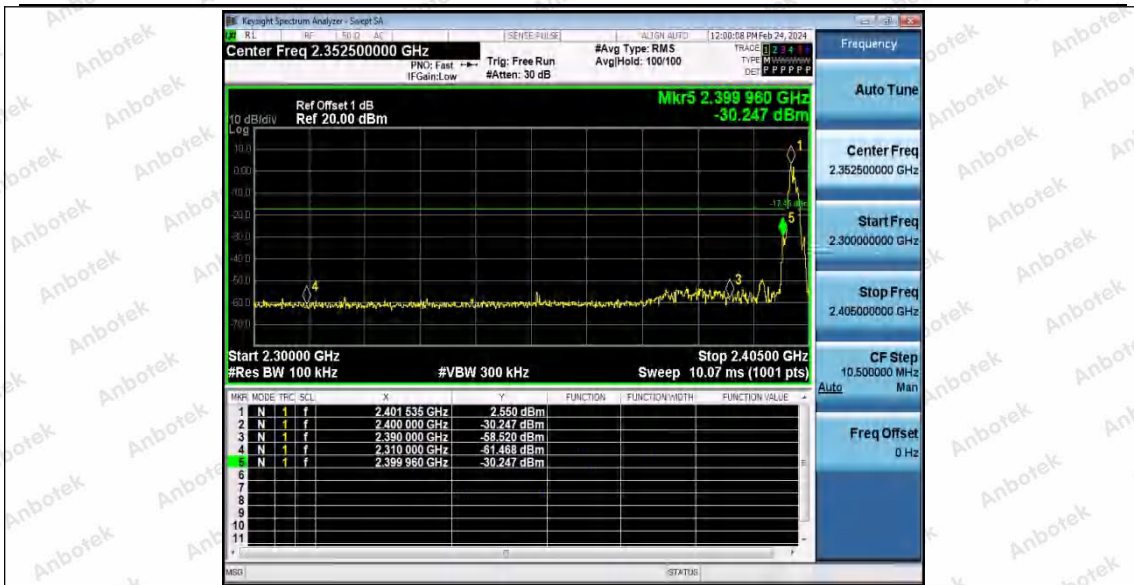


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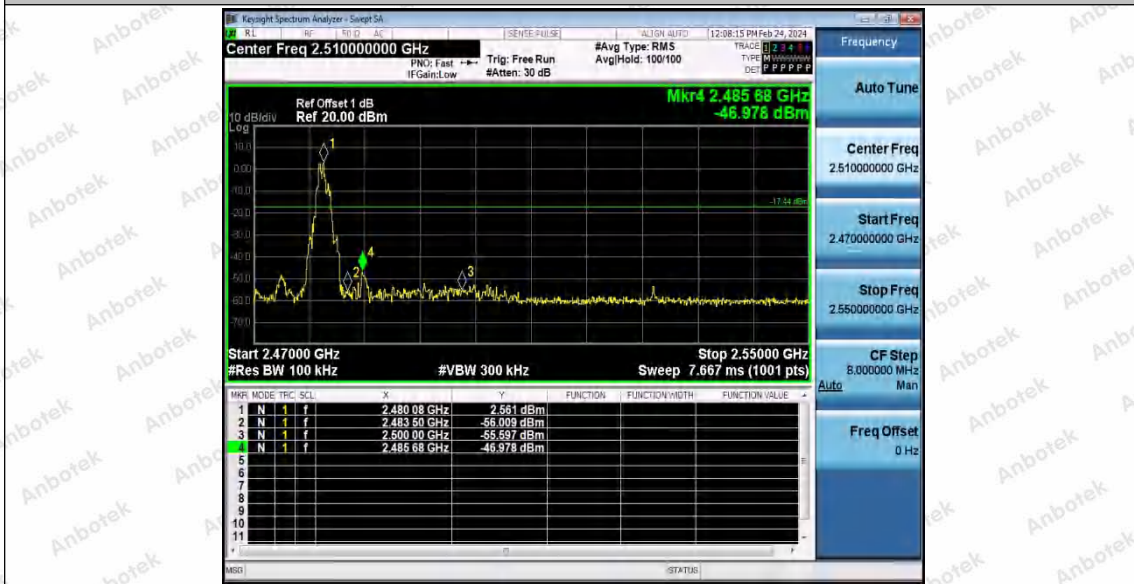
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BLE_2M_Ant1_High_2480



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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	3.01	3.01	---	PASS
			30~1000	3.01	-68.81	≤-16.99	PASS
			1000~26500	3.01	-45.35	≤-16.99	PASS
		2440	Reference	3.36	3.36	---	PASS
			30~1000	3.36	-69.33	≤-16.64	PASS
			1000~26500	3.36	-44.33	≤-16.64	PASS
		2480	Reference	3.48	3.48	---	PASS
			30~1000	3.48	-68.9	≤-16.52	PASS
			1000~26500	3.48	-47.19	≤-16.52	PASS
BLE_2M	Ant1	2402	Reference	2.29	2.29	---	PASS
			30~1000	2.29	-68.87	≤-17.71	PASS
			1000~26500	2.29	-48	≤-17.71	PASS
		2440	Reference	2.65	2.65	---	PASS
			30~1000	2.65	-69.27	≤-17.35	PASS
			1000~26500	2.65	-50.46	≤-17.35	PASS
		2480	Reference	2.88	2.88	---	PASS
			30~1000	2.88	-68.99	≤-17.12	PASS
			1000~26500	2.88	-49.74	≤-17.12	PASS



Test Graphs

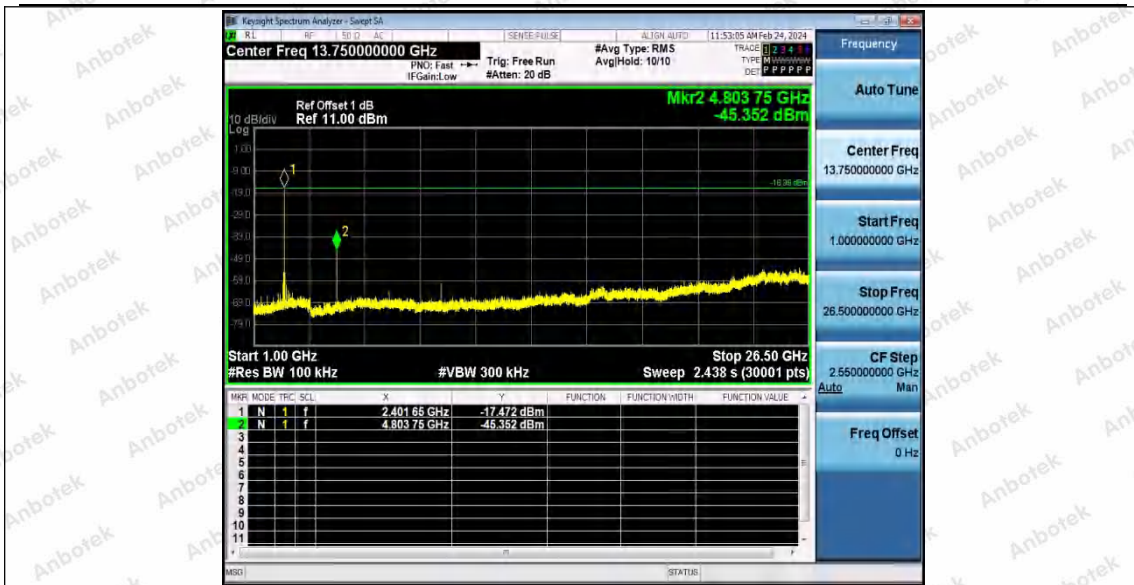


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BLE_1M_Ant1_2440_0~Reference



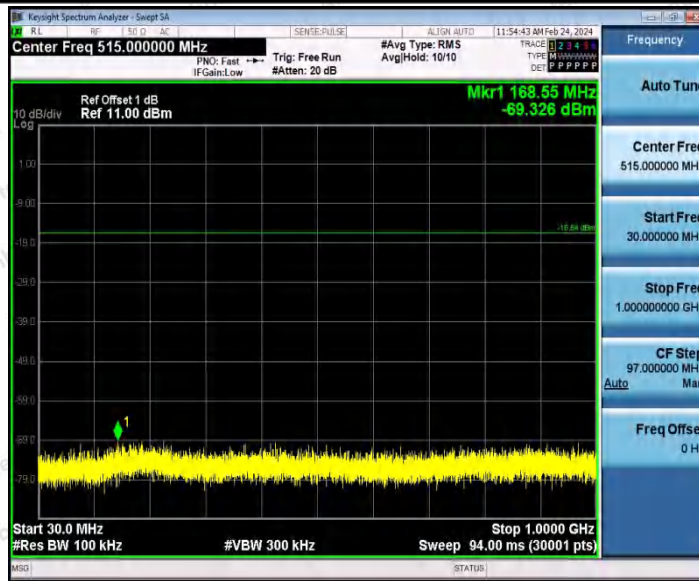
BLE_1M_Ant1_2440_30~1000

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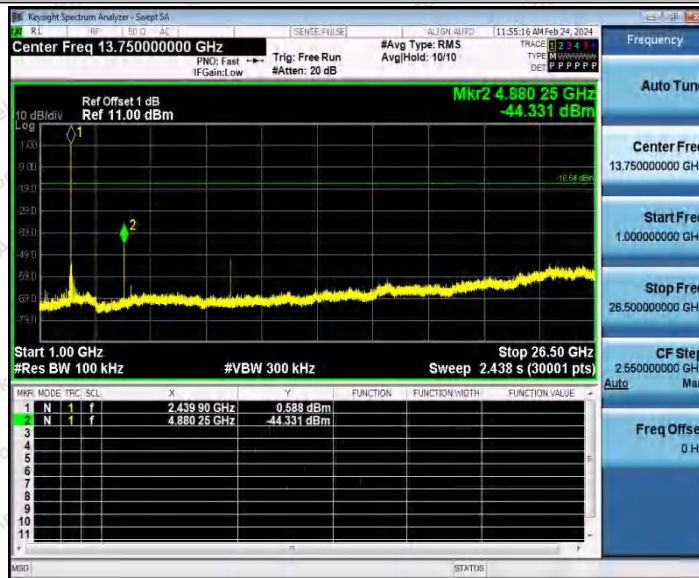
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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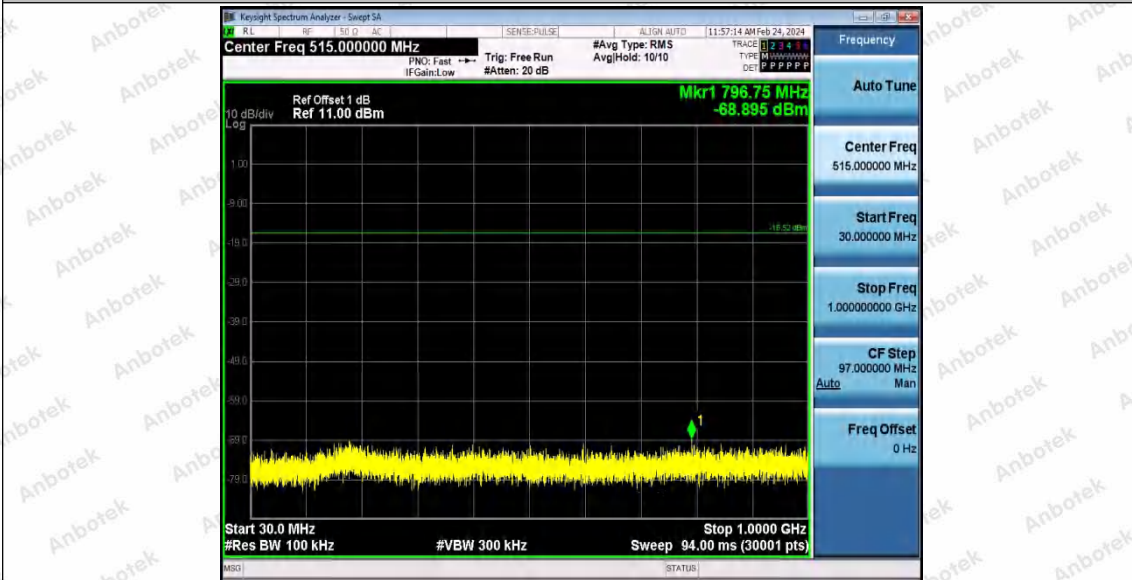
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

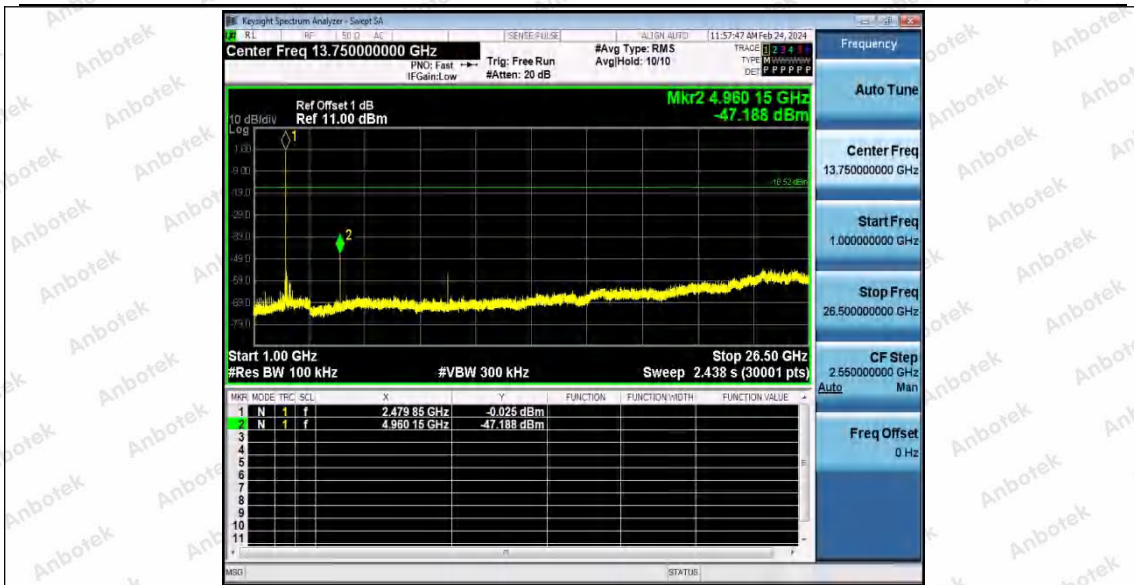
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BLE_2M_Ant1_2402_0~Reference



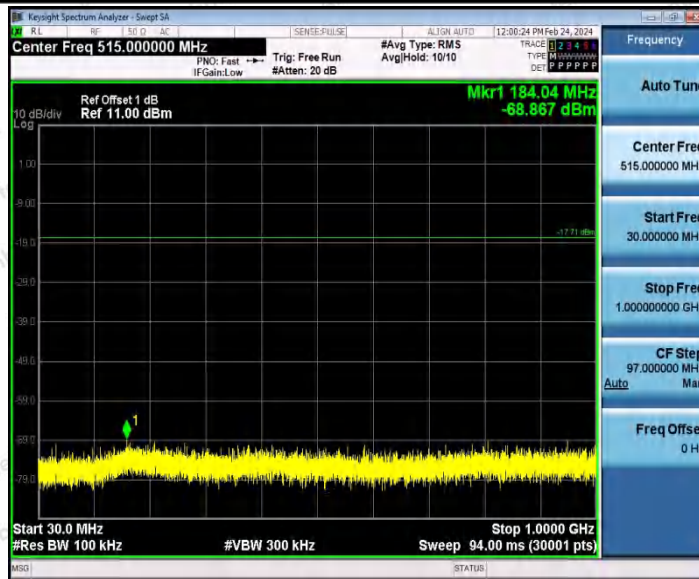
BLE_2M_Ant1_2402_30~1000

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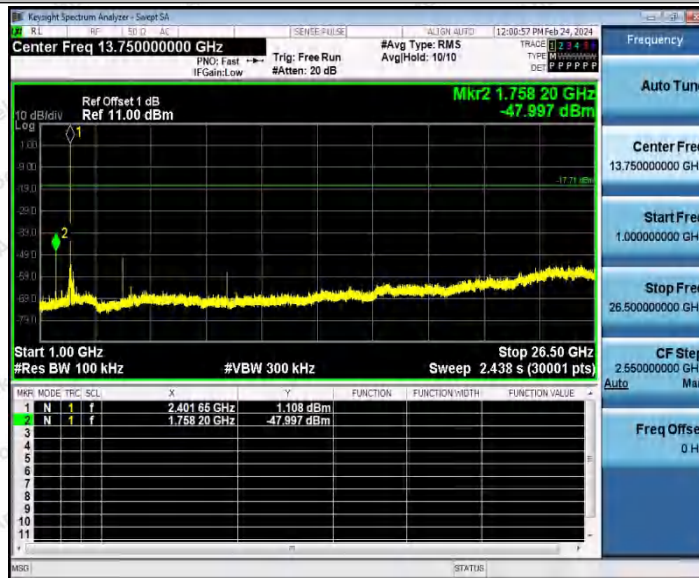
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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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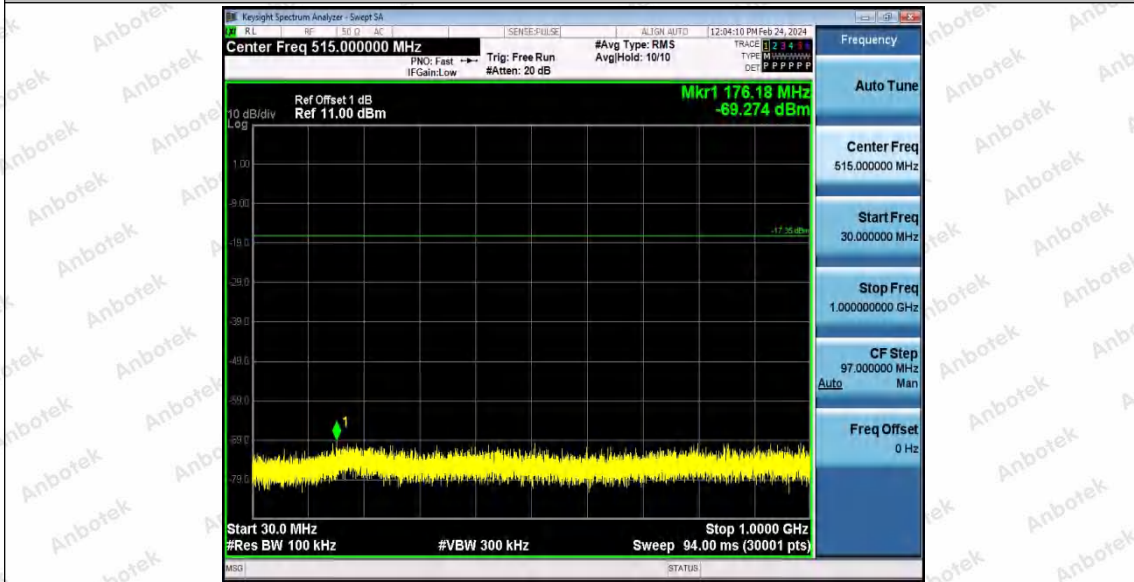
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BLE_2M_Ant1_2440_30~1000



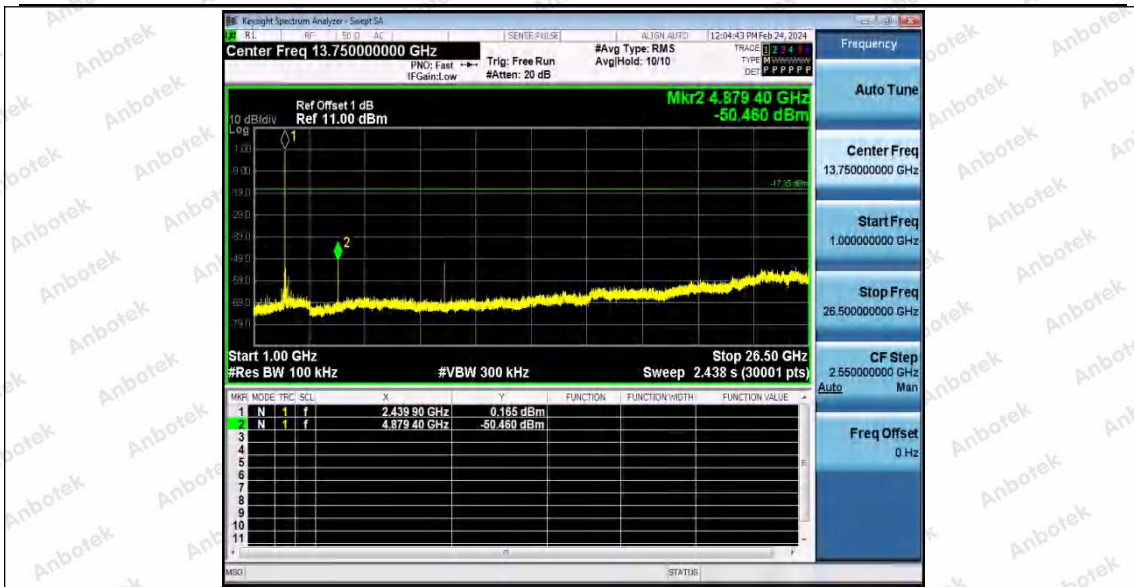
BLE_2M_Ant1_2440_1000~26500

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BLE_2M_Ant1_2480_30~1000

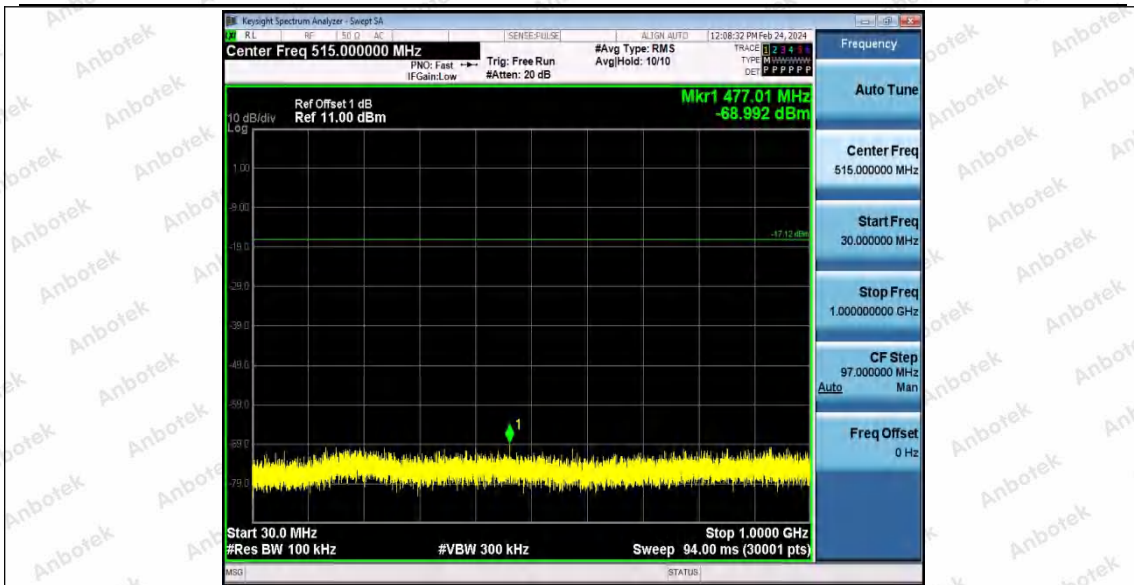
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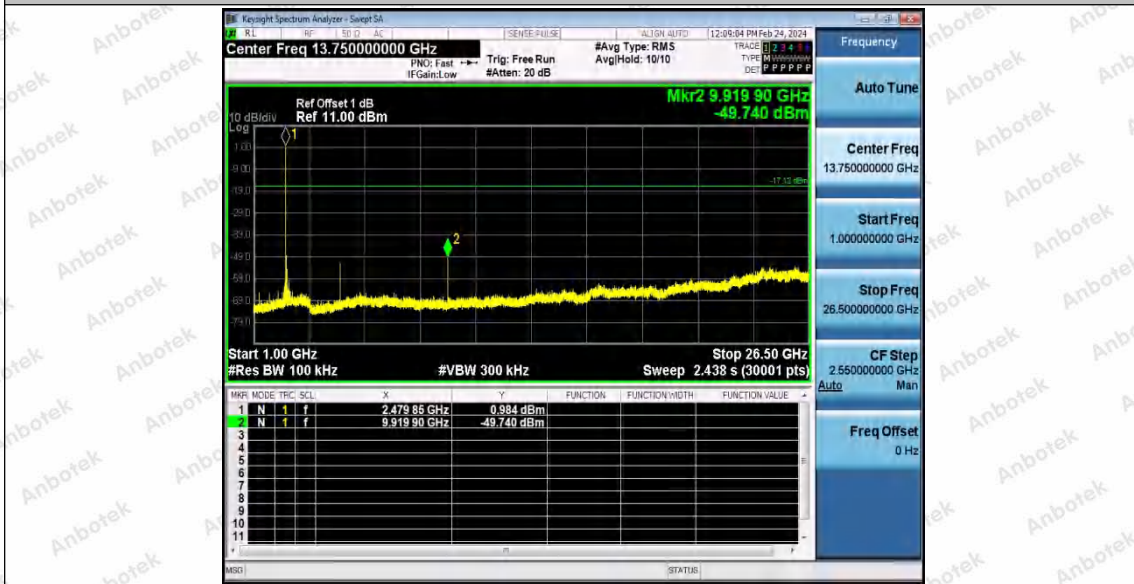


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BLE_2M_Ant1_2480_1000~26500



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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	0.08	0.62	12.90	8.89
		2440	0.08	0.62	12.90	8.89
		2480	0.08	0.62	12.90	8.89
BLE_2M	Ant1	2402	0.06	0.63	9.52	10.21
		2440	0.05	0.62	8.06	10.94
		2480	0.05	0.62	8.06	10.94

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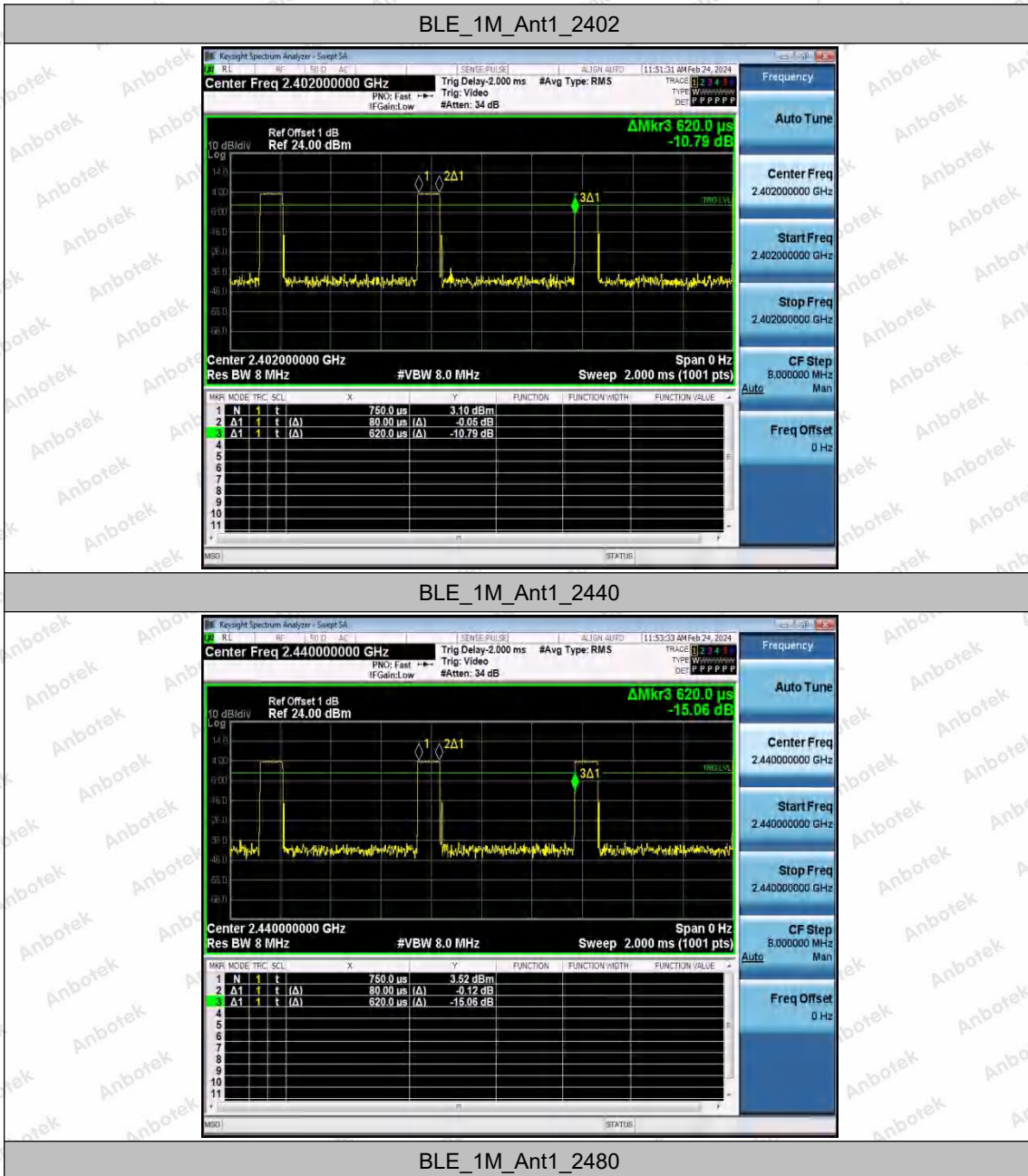
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Test Graphs



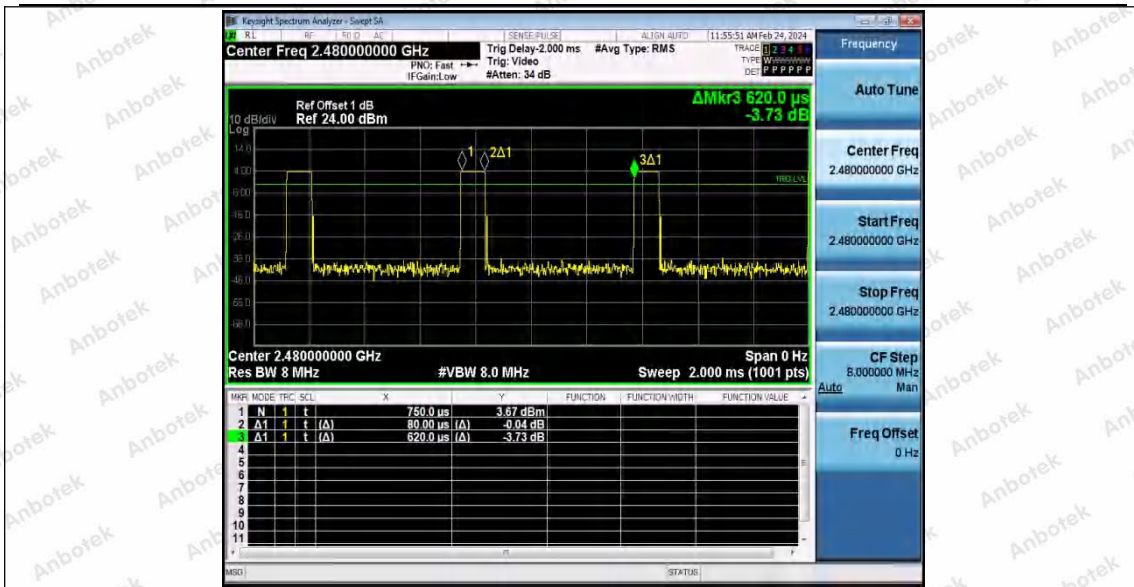
BLE_1M_Ant1_2480

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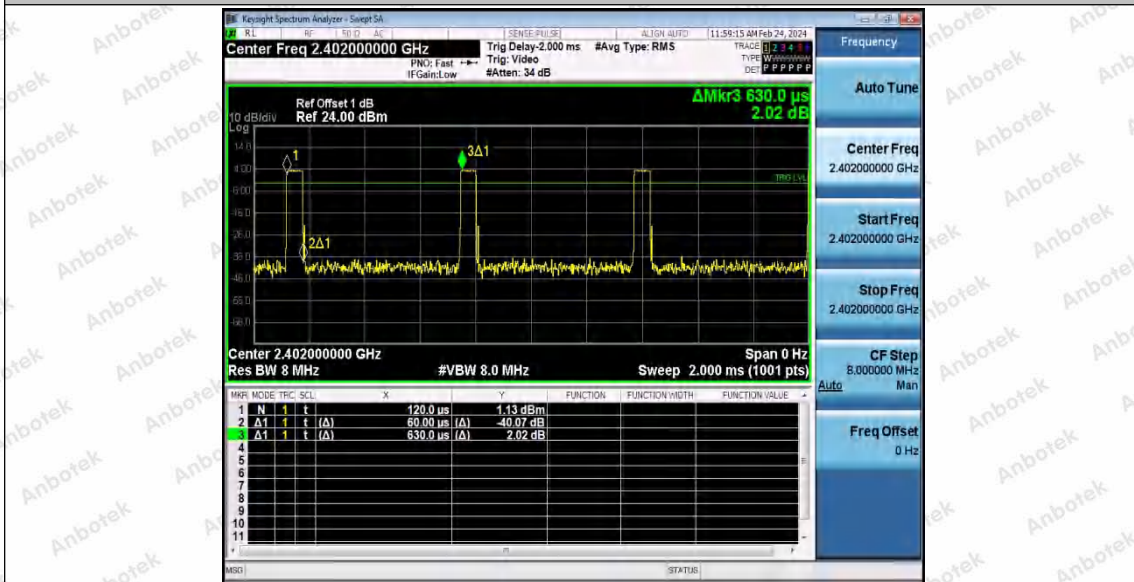
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BLE_2M_Ant1_2402



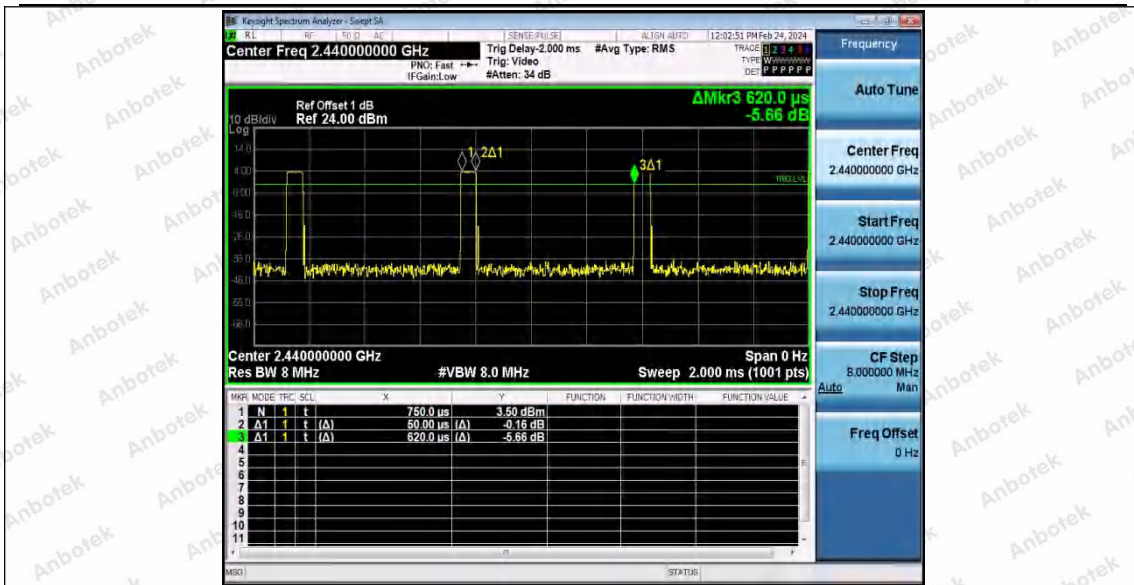
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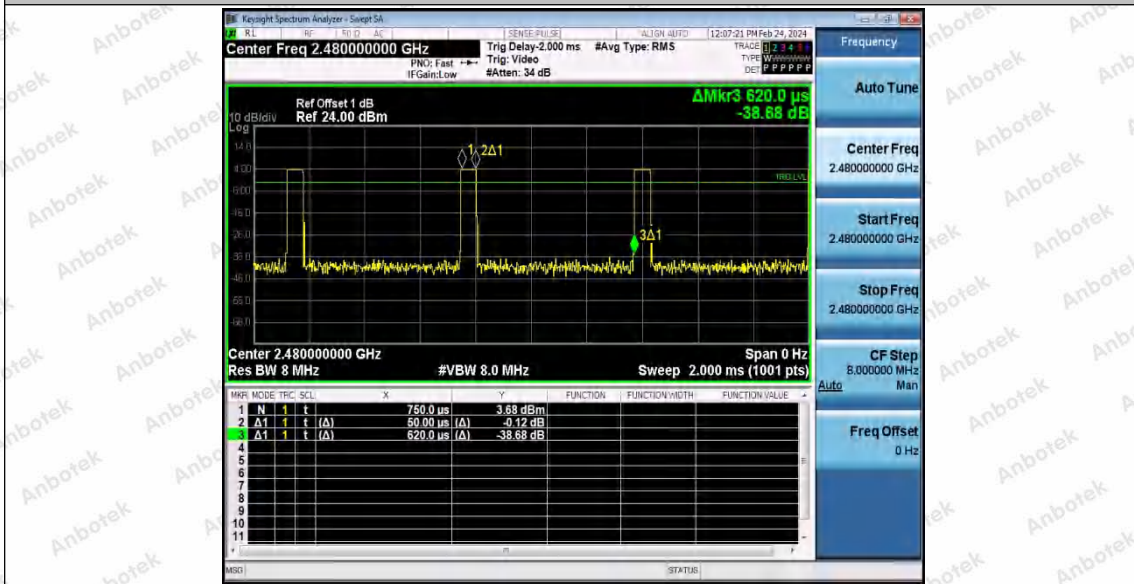
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BLE_2M_Ant1_2480



---end---

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