

Appendix Test Data

Report No.:	18220WC30228202	Test Sample No.:	1-2-2
Start Test Date:	2023.11.07	Finish Test Date:	2023.11.09
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	26.0°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	0.656	2401.628	2402.284	0.5	PASS
		2440	0.624	2439.652	2440.276	0.5	PASS
		2480	0.648	2479.616	2480.264	0.5	PASS
BLE_2M	Ant1	2402	1.084	2401.440	2402.524	0.5	PASS
		2440	1.088	2439.428	2440.516	0.5	PASS
		2480	1.084	2479.424	2480.508	0.5	PASS

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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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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	1.0718	2401.4519	2402.5237
		2440	1.0741	2439.4479	2440.5220
		2480	1.0713	2479.4427	2480.5140
BLE_2M	Ant1	2402	2.0830	2400.9563	2403.0393
		2440	2.0912	2438.9438	2441.0350
		2480	2.0974	2478.9348	2481.0322

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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	12.48	≤30	PASS
		2440	12.44	≤30	PASS
		2480	12.93	≤30	PASS
BLE_2M	Ant1	2402	12.53	≤30	PASS
		2440	12.52	≤30	PASS
		2480	13.02	≤30	PASS

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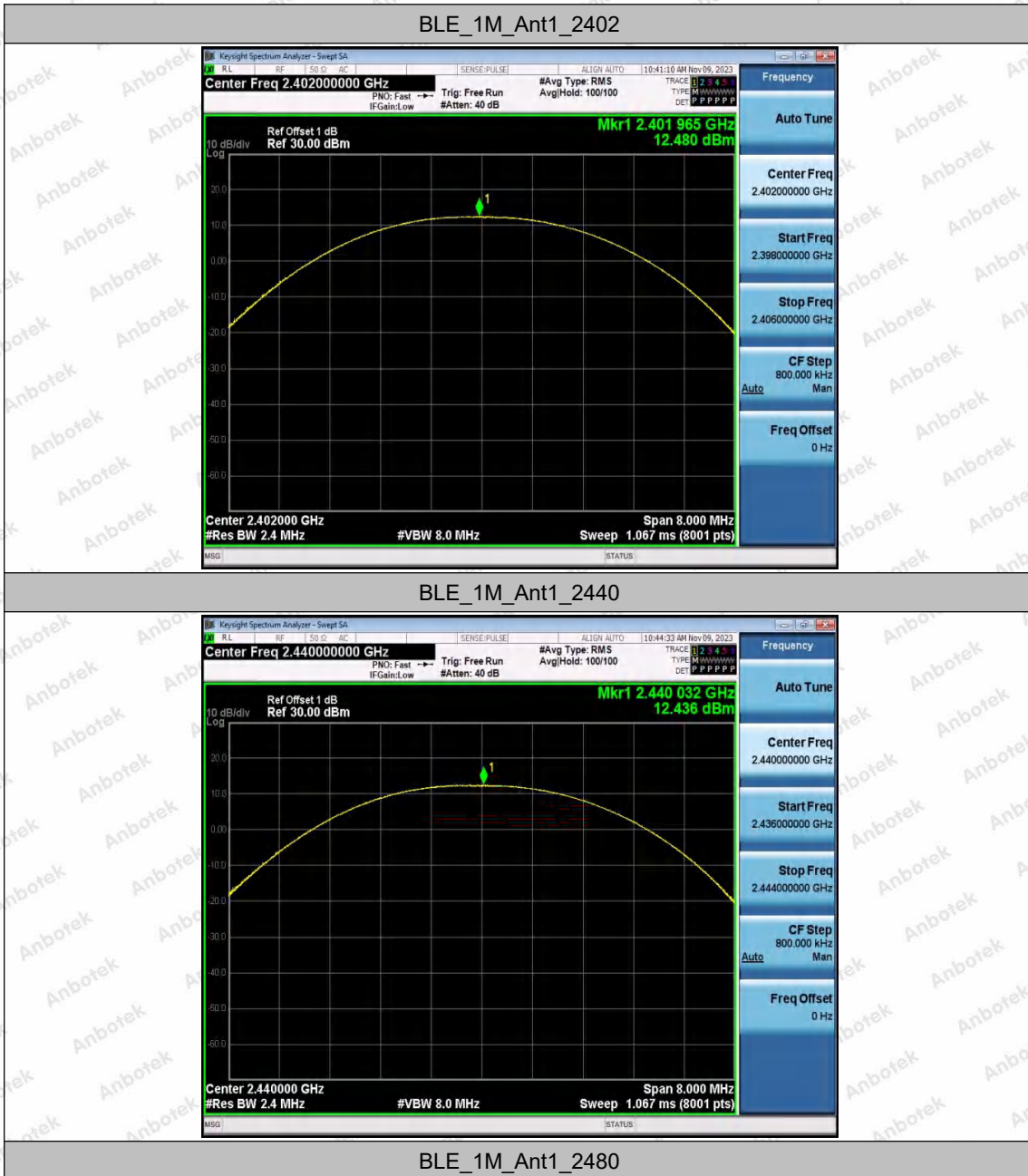
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Test Graphs Peak

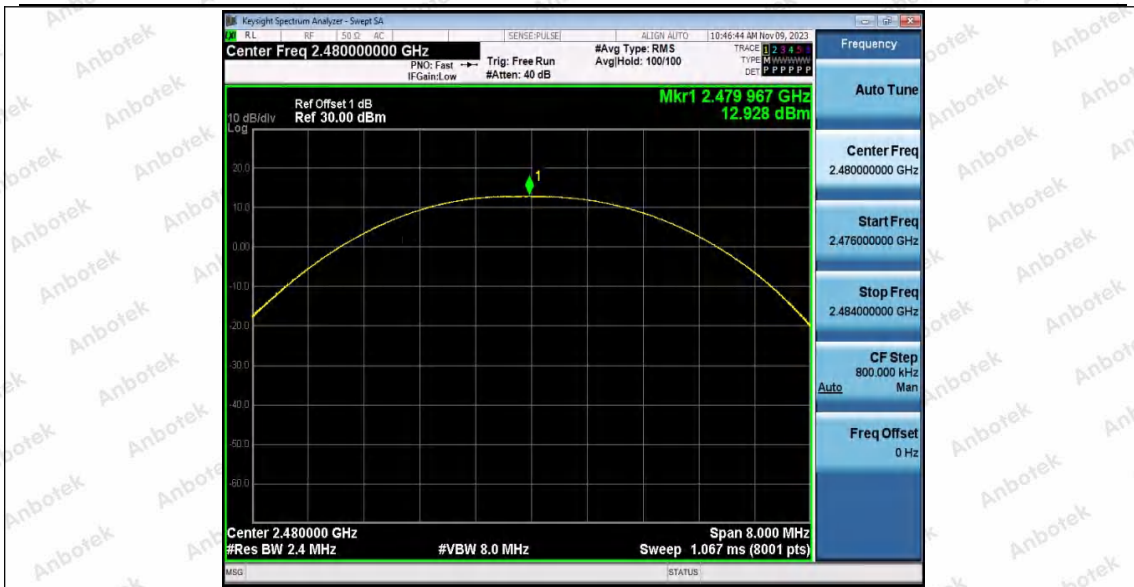


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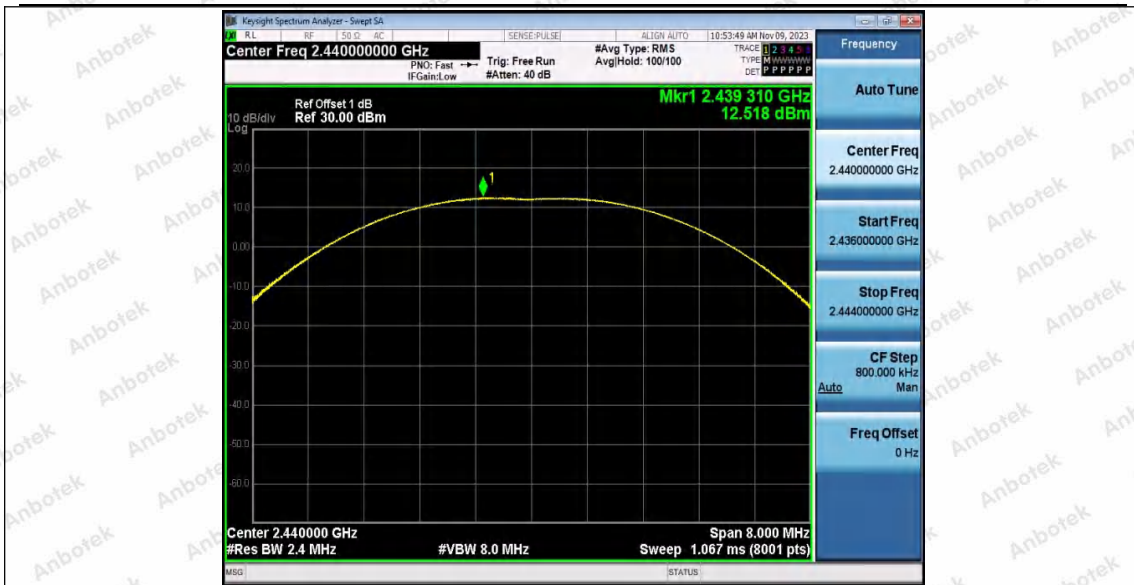


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



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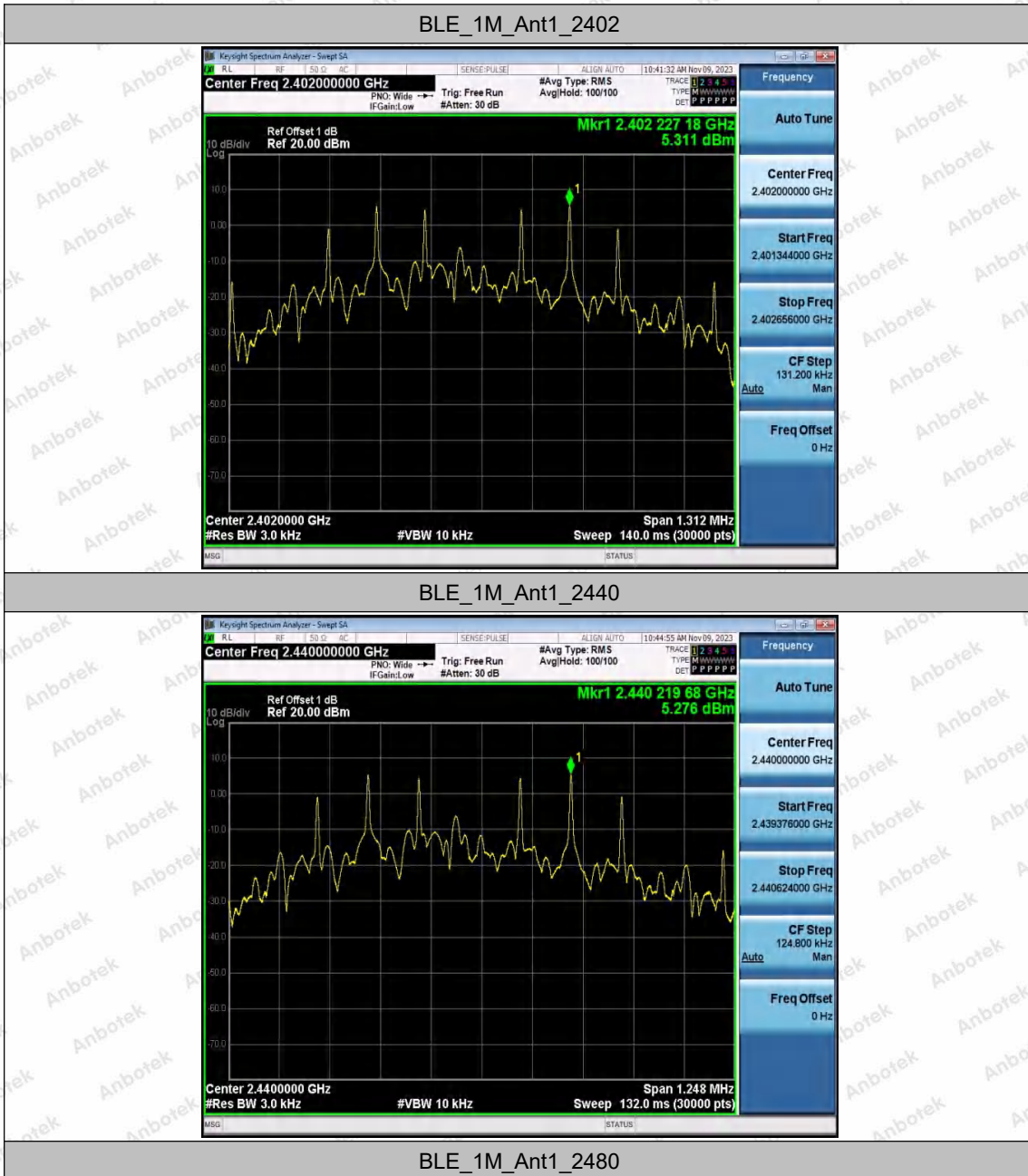
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	5.31	≤8.00	PASS
		2440	5.28	≤8.00	PASS
		2480	5.89	≤8.00	PASS
BLE_2M	Ant1	2402	1.74	≤8.00	PASS
		2440	1.74	≤8.00	PASS
		2480	2.36	≤8.00	PASS



Test Graphs



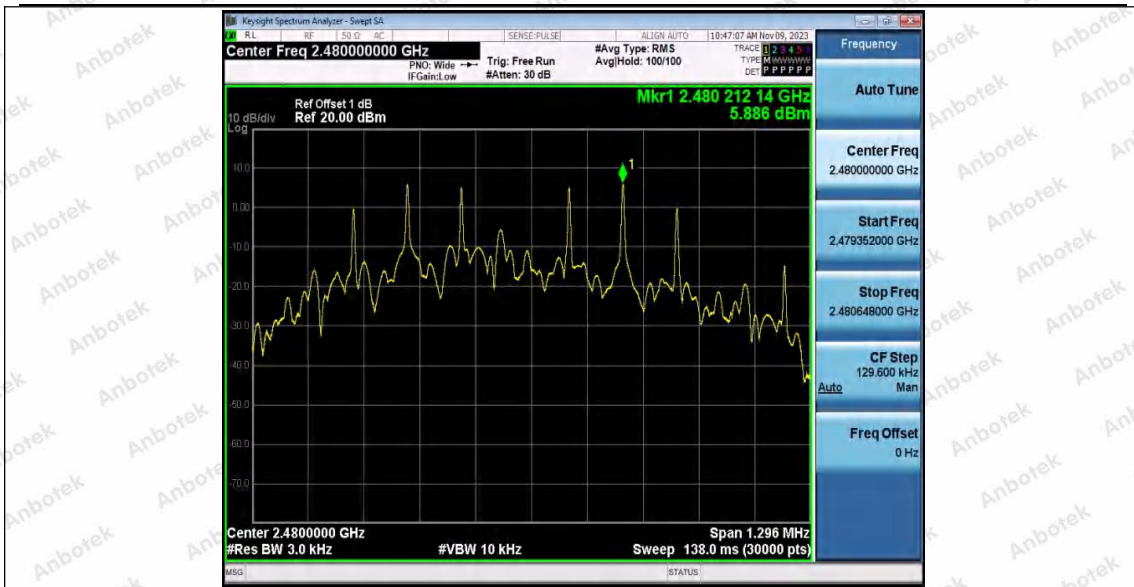
BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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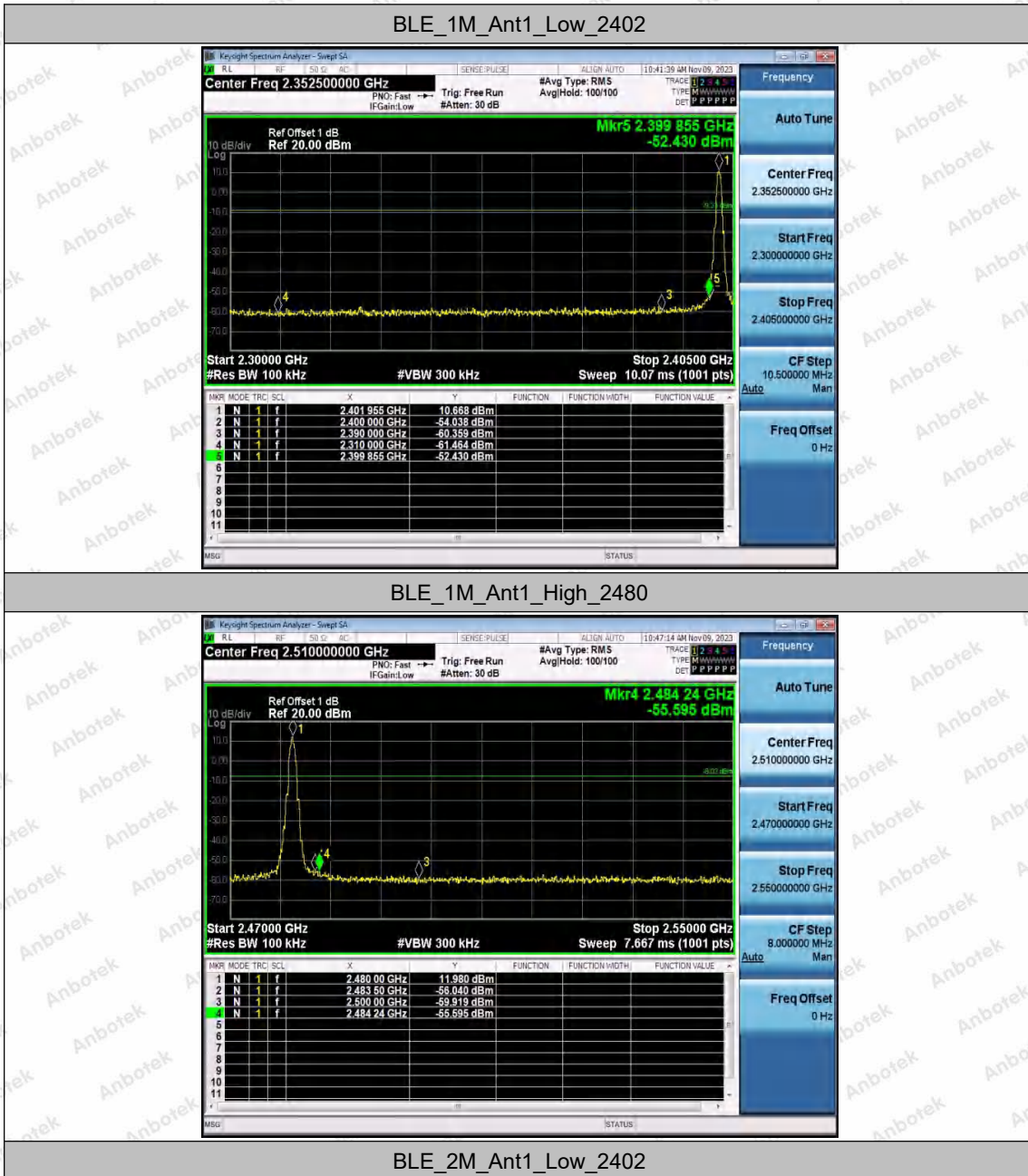
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	10.67	-52.43	≤-9.33	PASS
		High	2480	11.98	-55.6	≤-8.02	PASS
BLE_2M	Ant1	Low	2402	9.94	-27.52	≤-10.06	PASS
		High	2480	10.87	-54.78	≤-9.14	PASS



Test Graphs

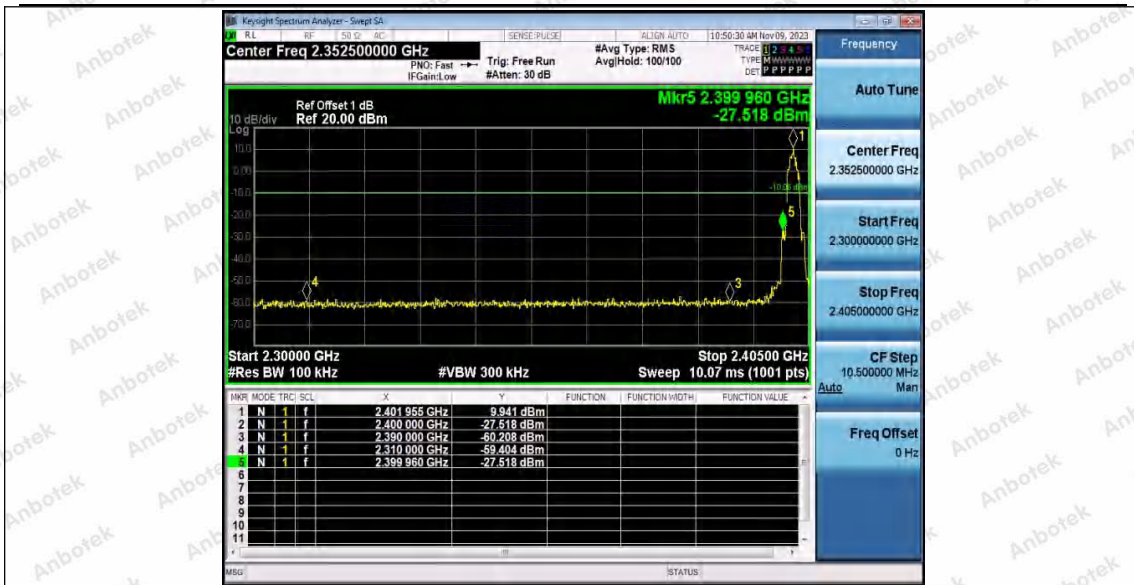


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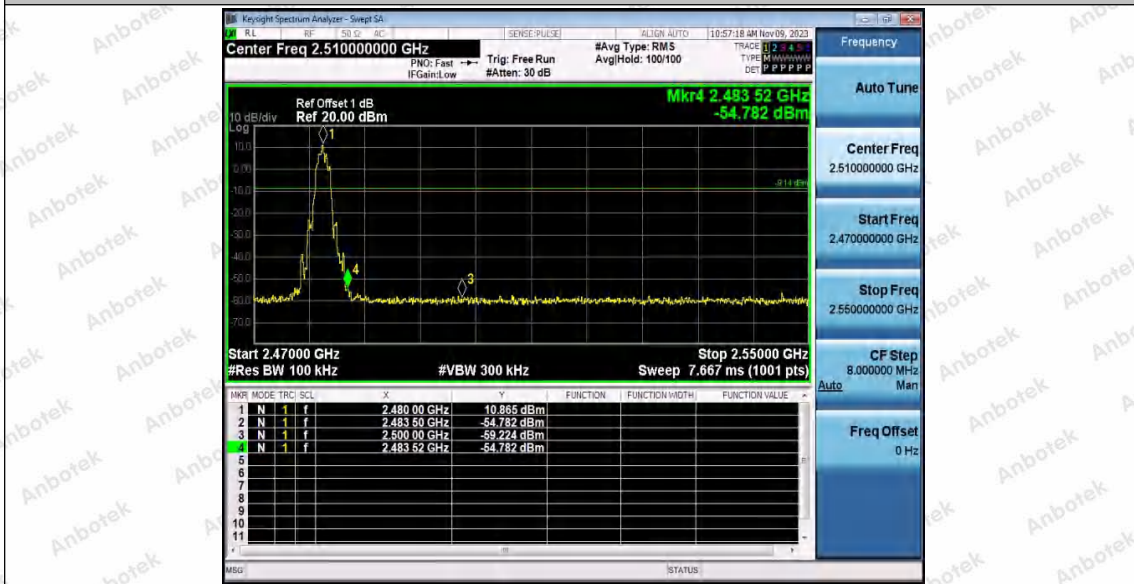
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BLE_2M_Ant1_High_2480



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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	11.43	11.43	---	PASS
			30~1000	11.43	-69.02	≤-8.57	PASS
			1000~26500	11.43	-41.38	≤-8.57	PASS
		2440	Reference	11.32	11.32	---	PASS
			30~1000	11.32	-68.88	≤-8.68	PASS
			1000~26500	11.32	-42.4	≤-8.68	PASS
		2480	Reference	11.87	11.87	---	PASS
			30~1000	11.87	-68.51	≤-8.13	PASS
			1000~26500	11.87	-43.64	≤-8.13	PASS
BLE_2M	Ant1	2402	Reference	10.22	10.22	---	PASS
			30~1000	10.22	-68.46	≤-9.78	PASS
			1000~26500	10.22	-41.14	≤-9.78	PASS
		2440	Reference	10.07	10.07	---	PASS
			30~1000	10.07	-69.29	≤-9.93	PASS
			1000~26500	10.07	-41.76	≤-9.93	PASS
		2480	Reference	10.85	10.85	---	PASS
			30~1000	10.85	-68.95	≤-9.15	PASS
			1000~26500	10.85	-42.82	≤-9.15	PASS

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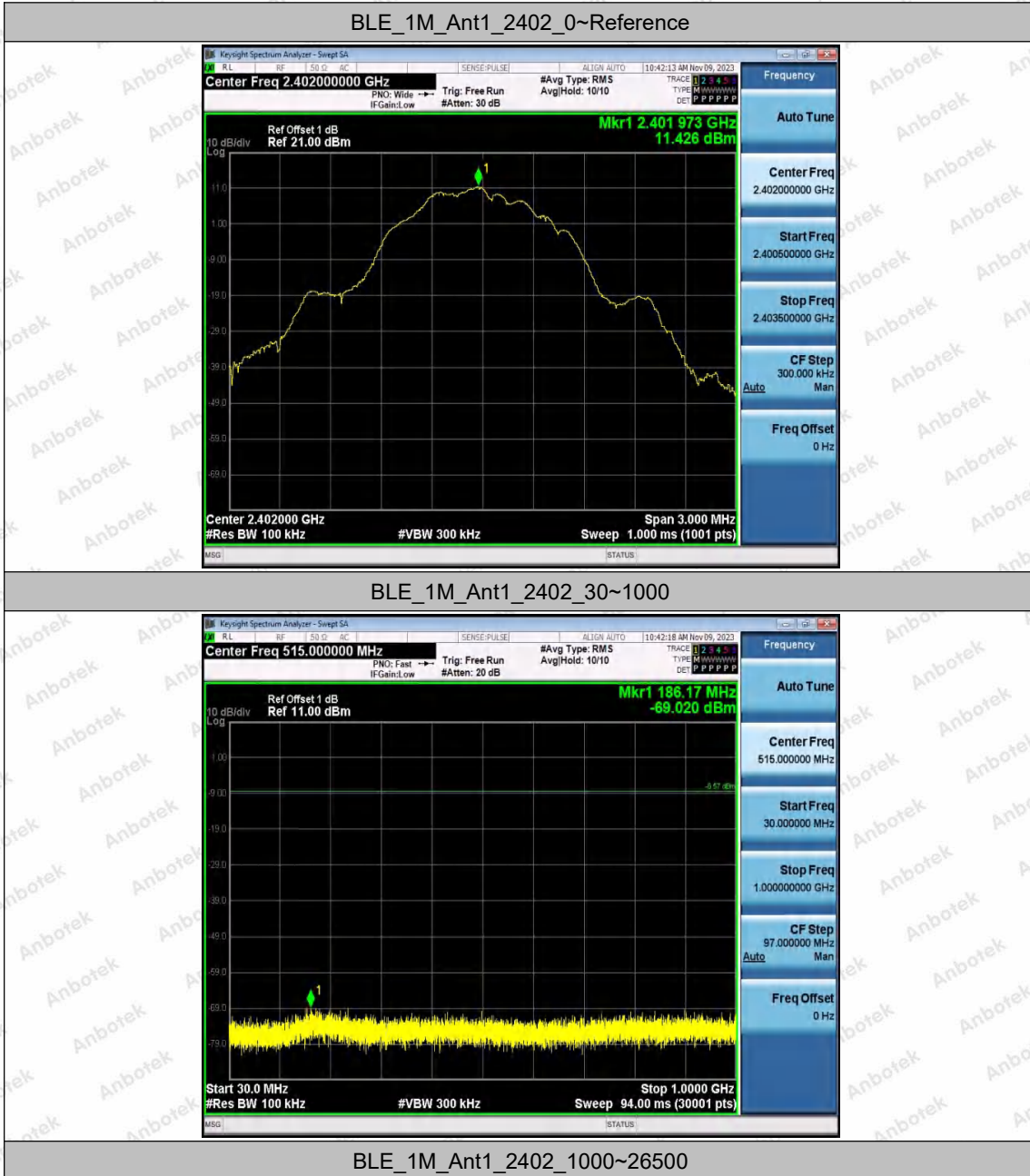
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Test Graphs

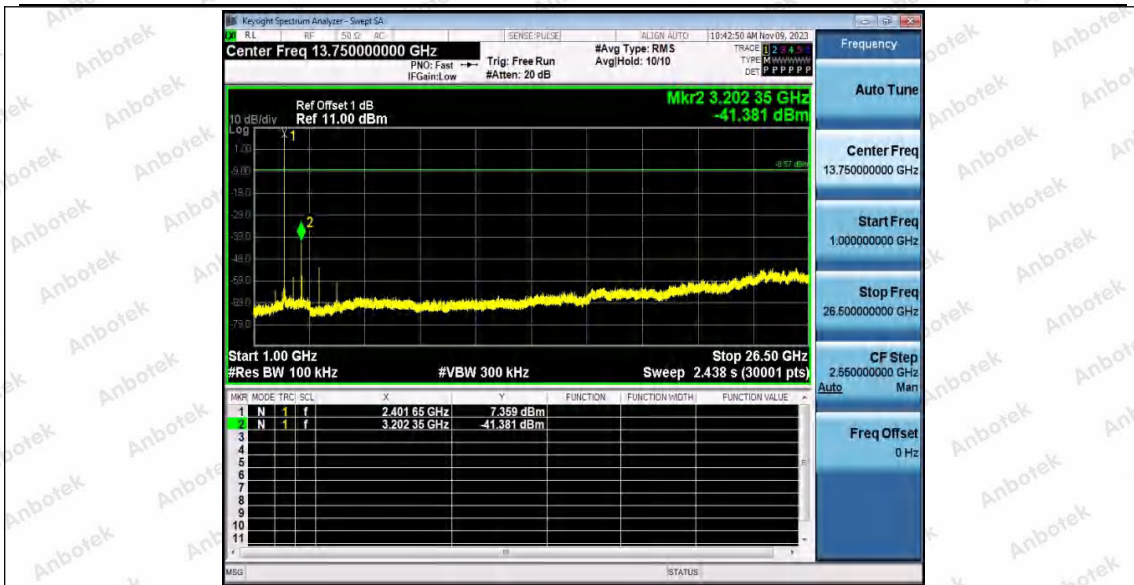


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BLE_1M_Ant1_2440_0~Reference



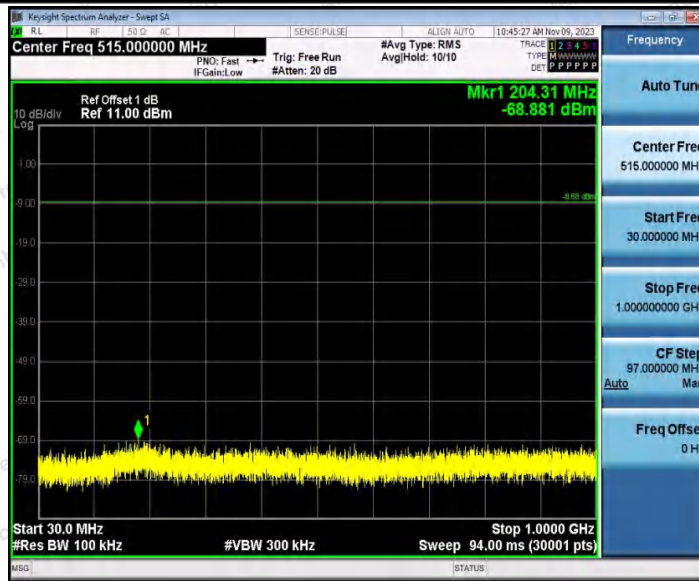
BLE_1M_Ant1_2440_30~1000

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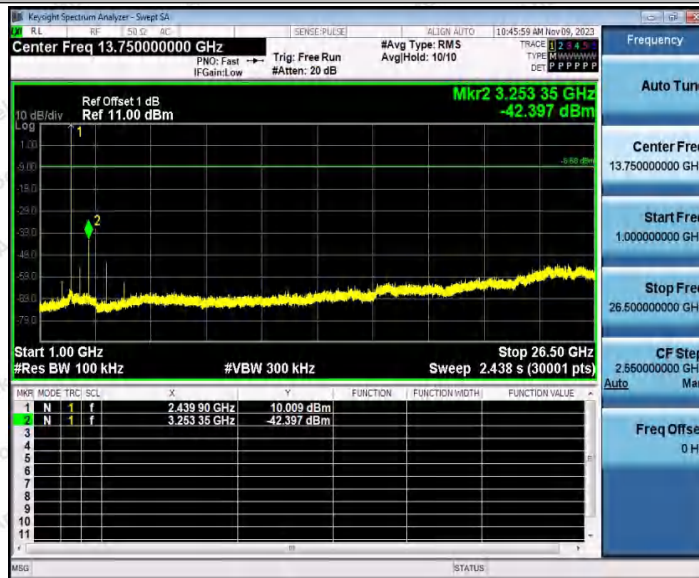
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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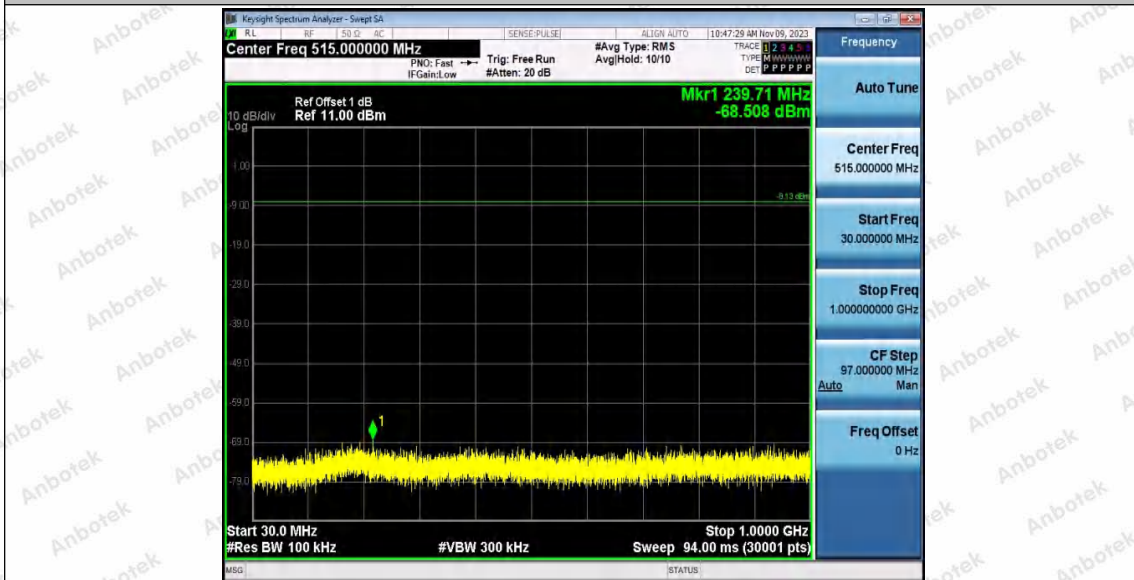
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BLE_1M_Ant1_2480_30~1000



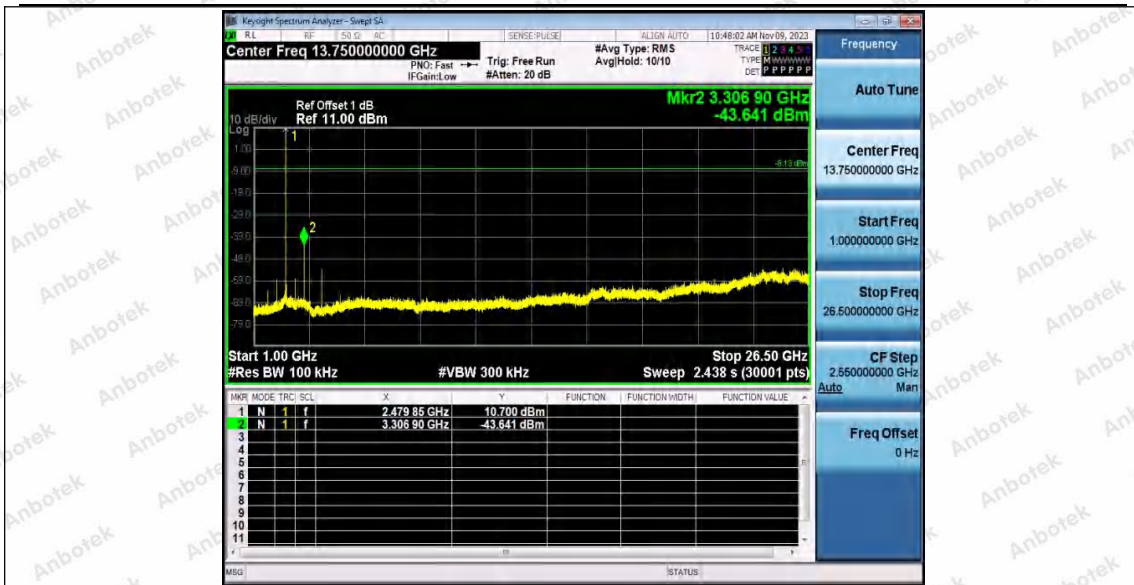
BLE_1M_Ant1_2480_1000~26500

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BLE_2M_Ant1_2402_0~Reference



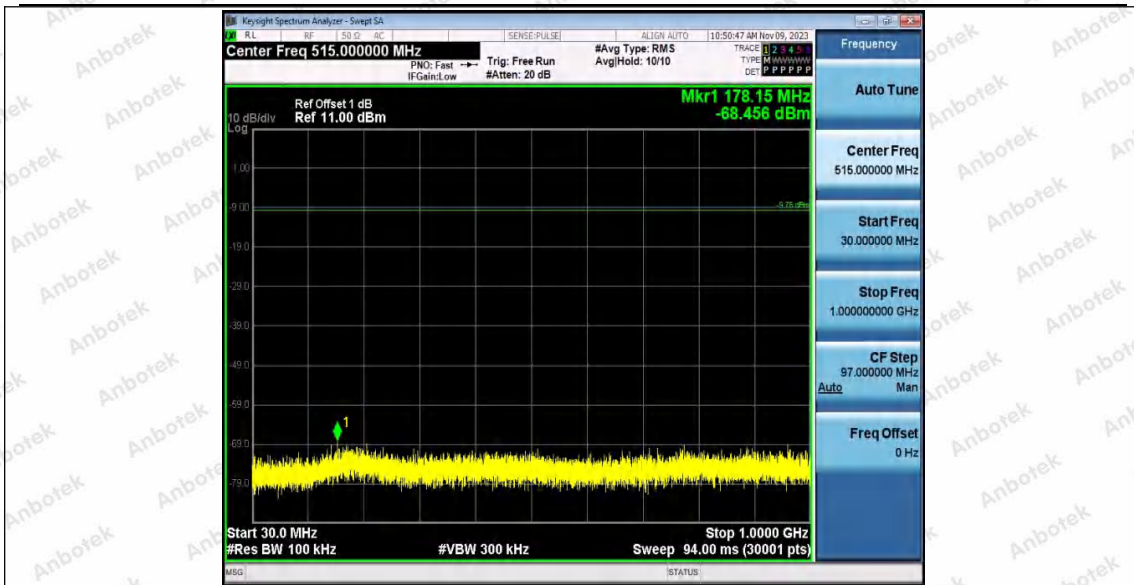
BLE_2M_Ant1_2402_30~1000

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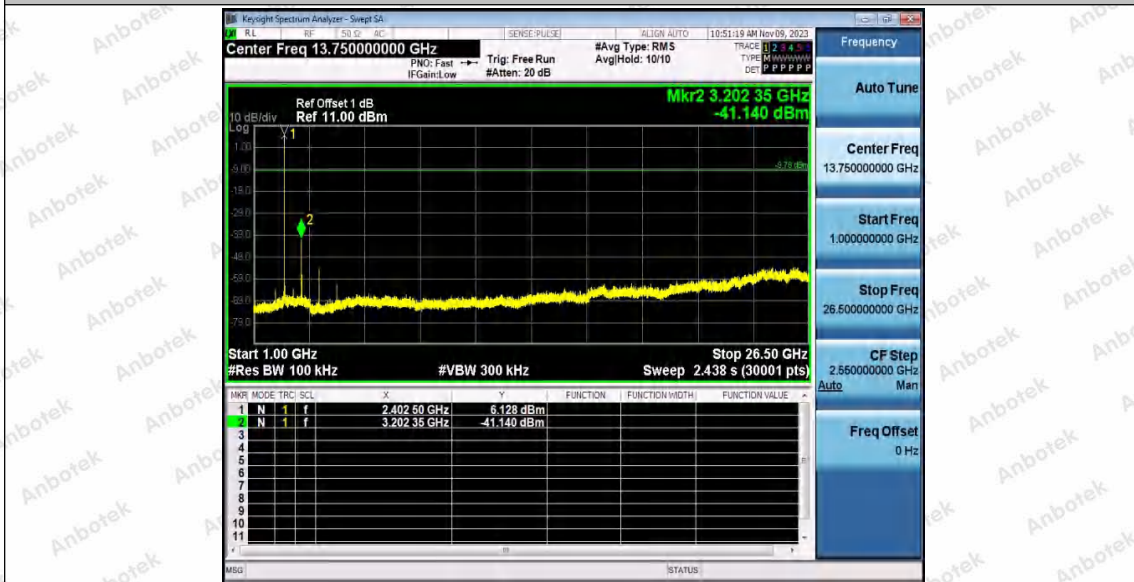
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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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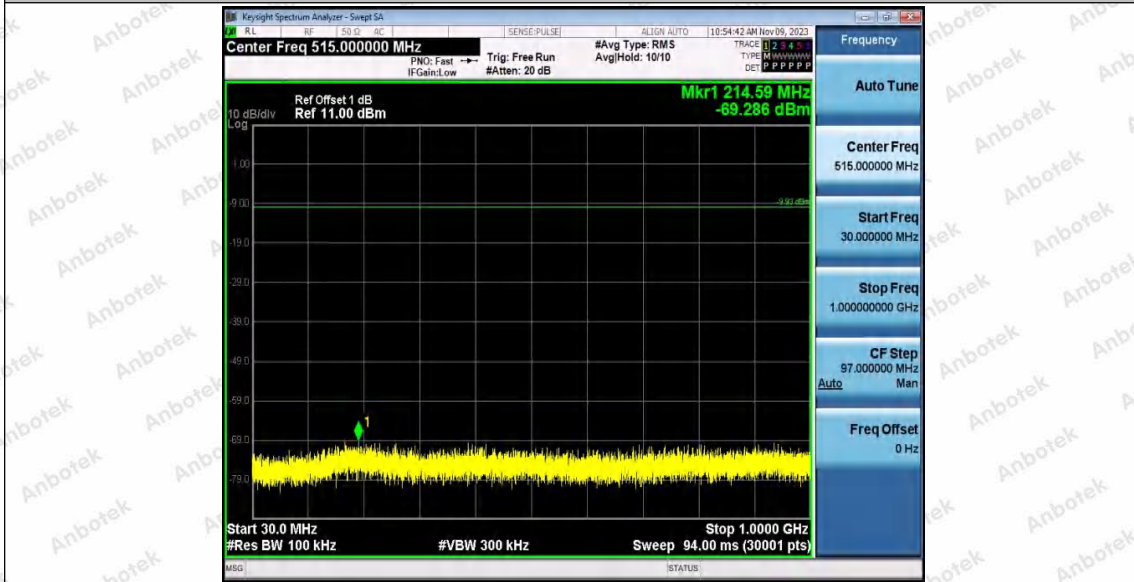
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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

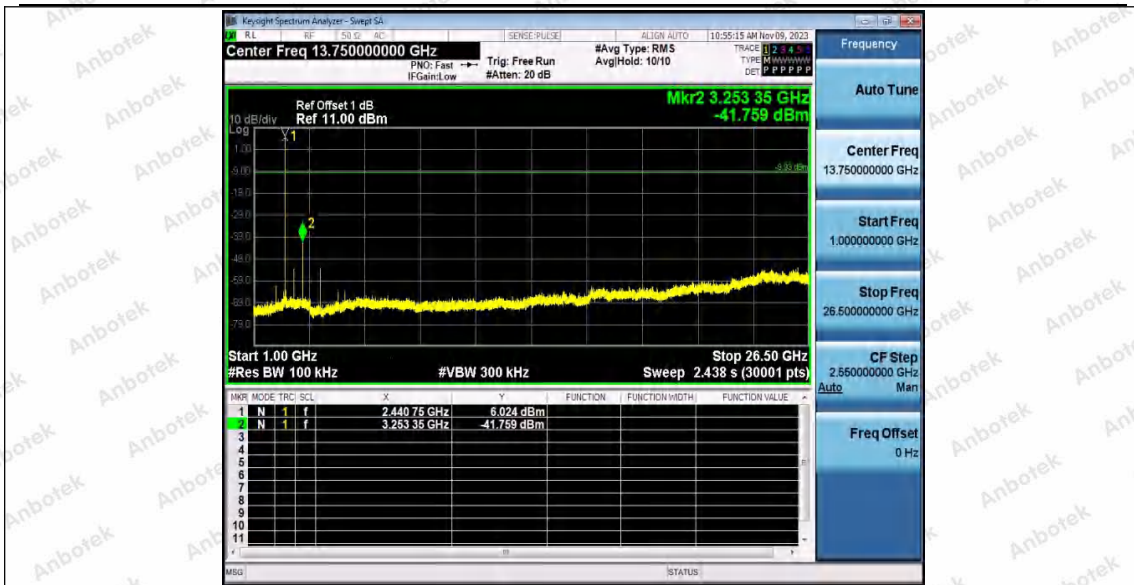
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BLE_2M_Ant1_2480_0~Reference



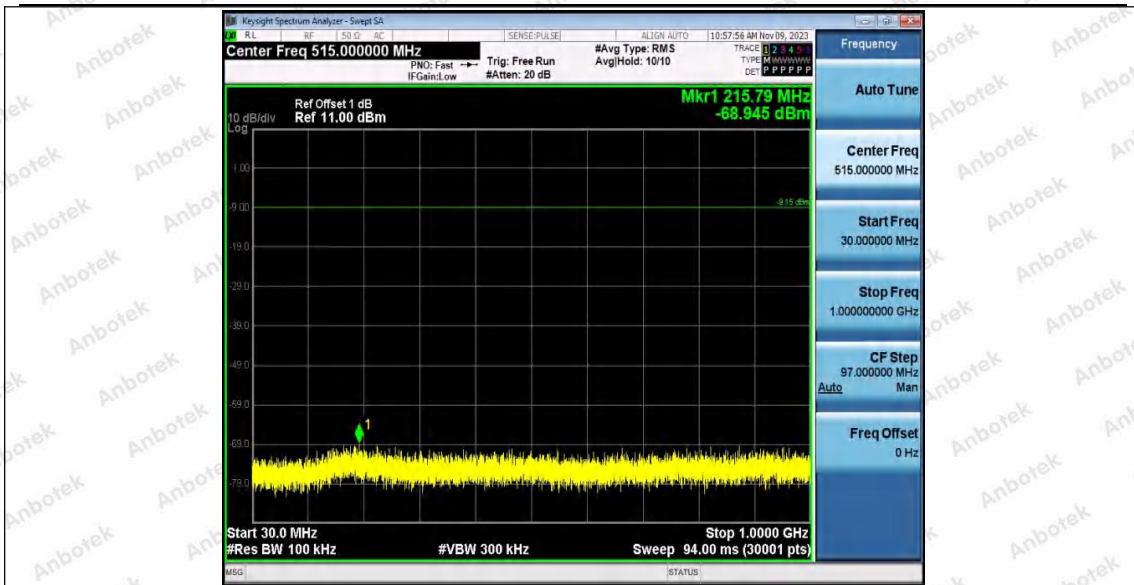
BLE_2M_Ant1_2480_30~1000

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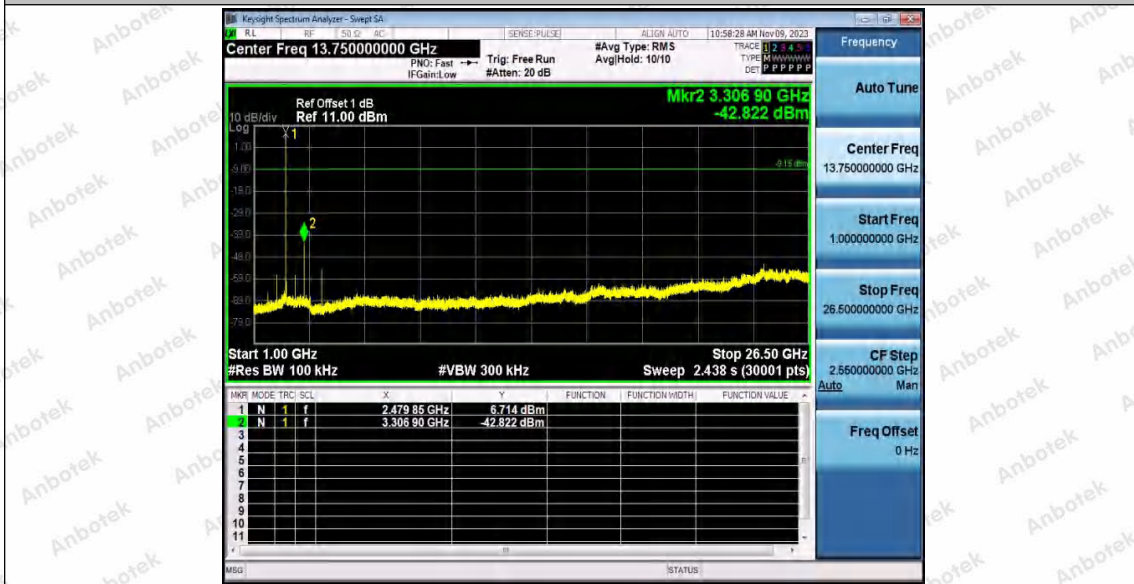
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.38	0.63	60.32	2.20
		2440	0.37	0.62	59.68	2.24
		2480	0.38	0.63	60.32	2.20
BLE_2M	Ant1	2402	0.19	0.62	30.65	5.14
		2440	0.20	0.63	31.75	4.98
		2480	0.20	0.63	31.75	4.98

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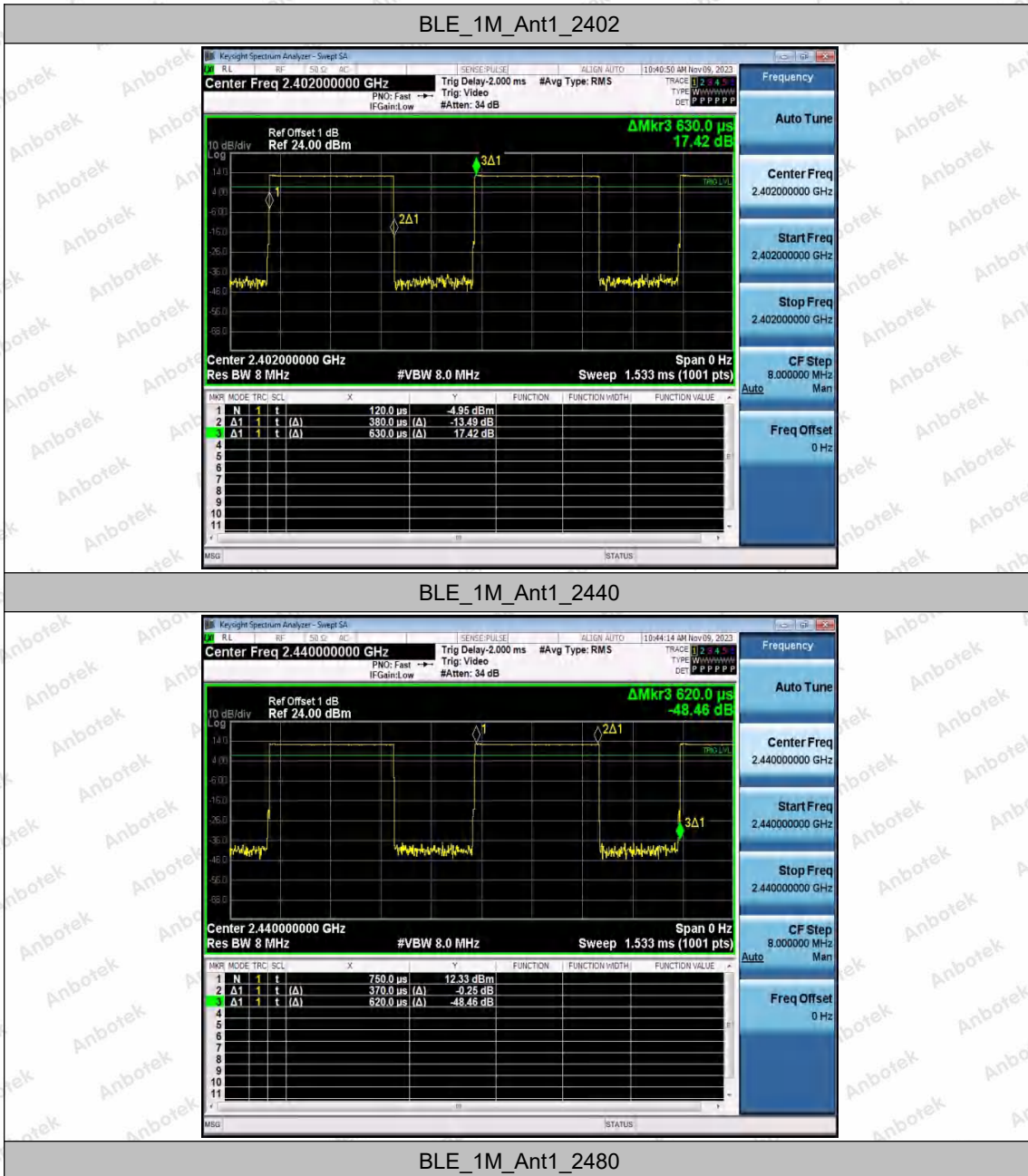
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

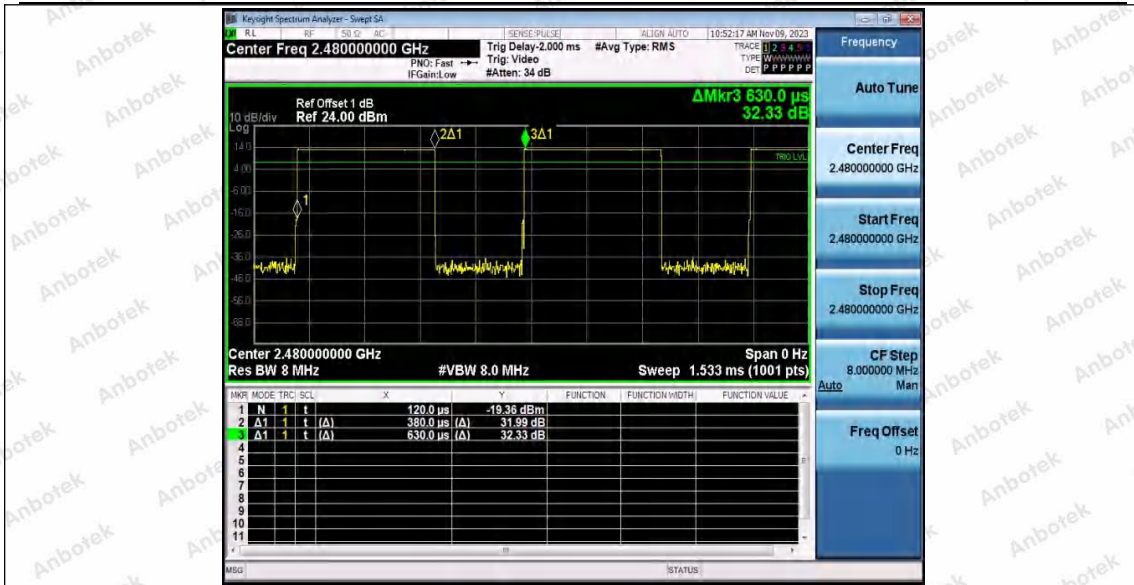


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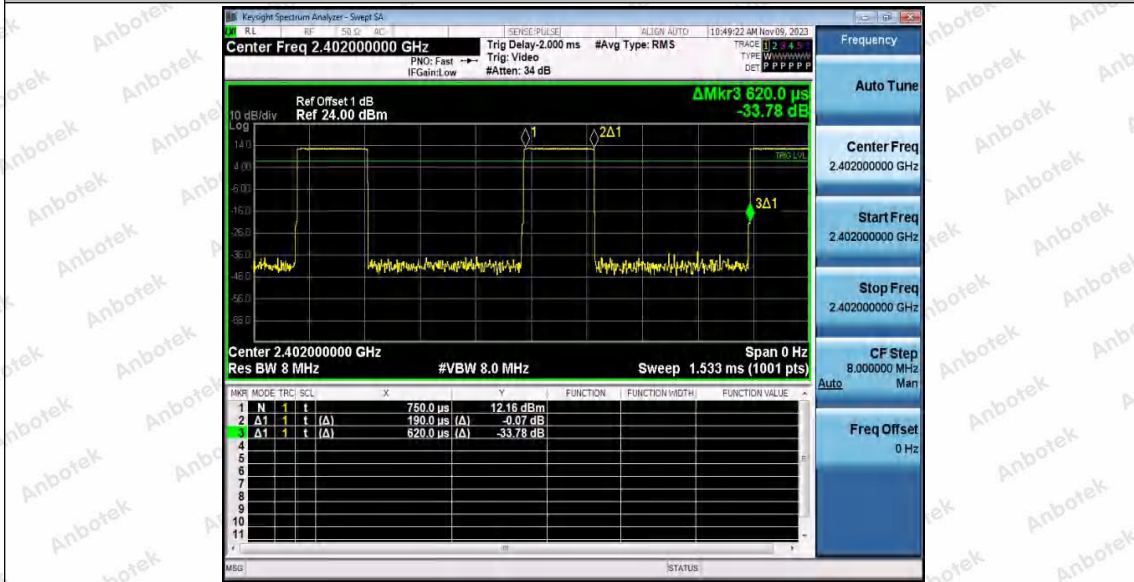


Test Graphs





BLE_2M_Ant1_2402



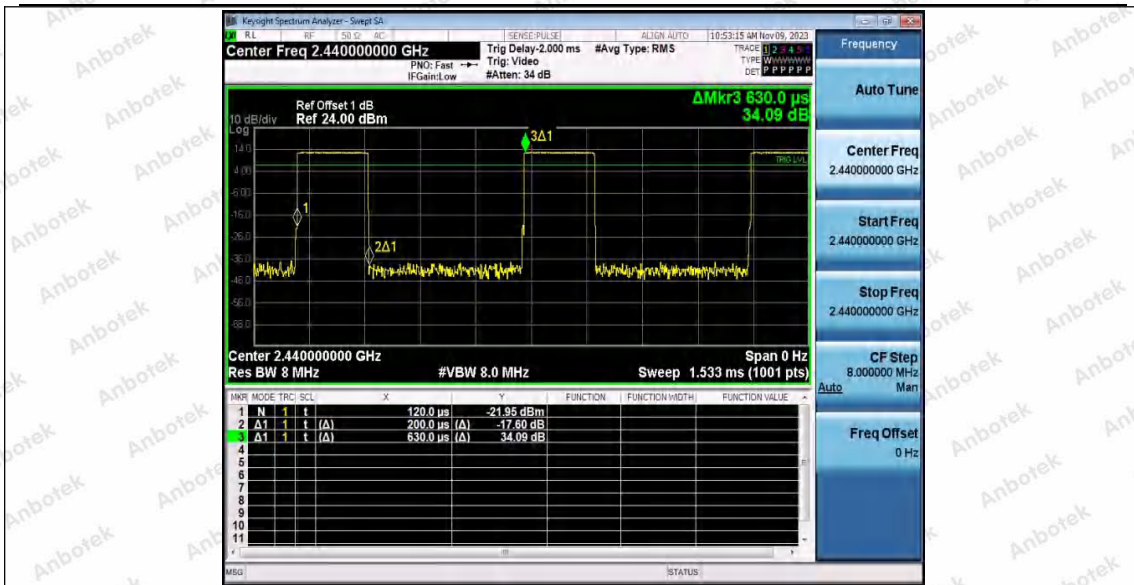
BLE_2M_Ant1_2440

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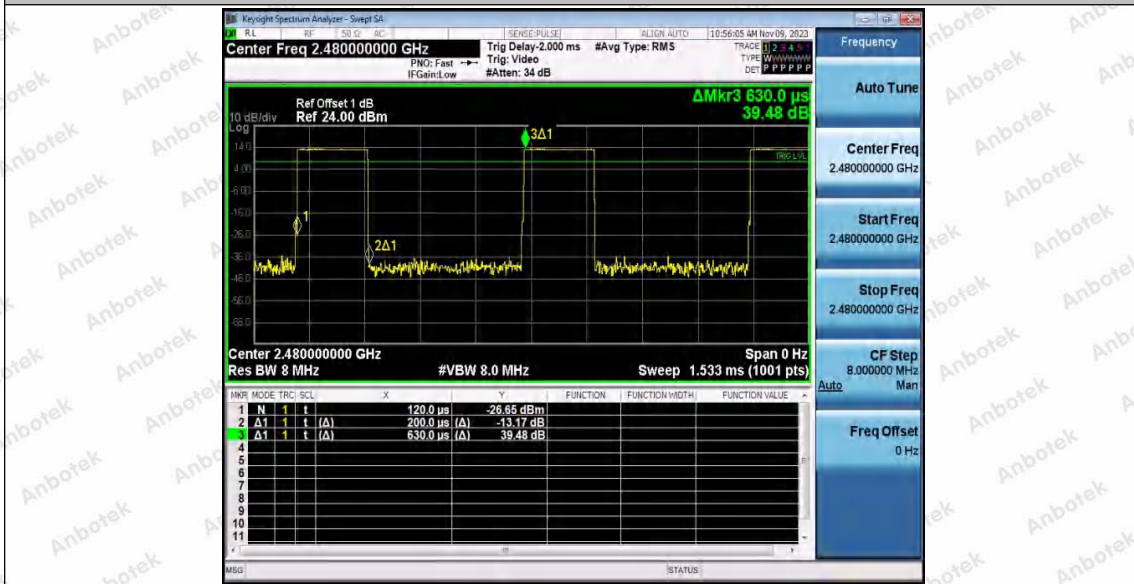
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BLE_2M_Ant1_2480



---End---

