

Appendix Test Data

Report No.:	18220WC30116701	Test Sample No.:	1-2-2
Start Test Date:	2023.06.16	Finish Test Date:	2023.06.16
Test Engineer:	<i>RICK Luo</i>	Auditor:	<i>Edward Pan</i>
Temperature:	25.7°C	Relative Humidity:	49%
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	0.648	2401.688	2402.336	0.5	PASS
		2440	0.648	2439.676	2440.324	0.5	PASS
		2480	0.692	2479.640	2480.332	0.5	PASS
BLE_2M	Ant1	2402	1.088	2401.488	2402.576	0.5	PASS
		2440	0.940	2439.464	2440.404	0.5	PASS
		2480	1.104	2479.472	2480.576	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	1.0441	2401.4934	2402.5375
		2440	1.0354	2439.5081	2440.5435
		2480	1.0622	2479.4882	2480.5504
BLE_2M	Ant1	2402	2.0538	2401.0124	2403.0662
		2440	2.0666	2438.9941	2441.0607
		2480	2.0647	2478.9982	2481.0629

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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	5.09	≤30	PASS
		2440	4.73	≤30	PASS
		2480	4.19	≤30	PASS
BLE_2M	Ant1	2402	5.08	≤30	PASS
		2440	4.72	≤30	PASS
		2480	4.19	≤30	PASS

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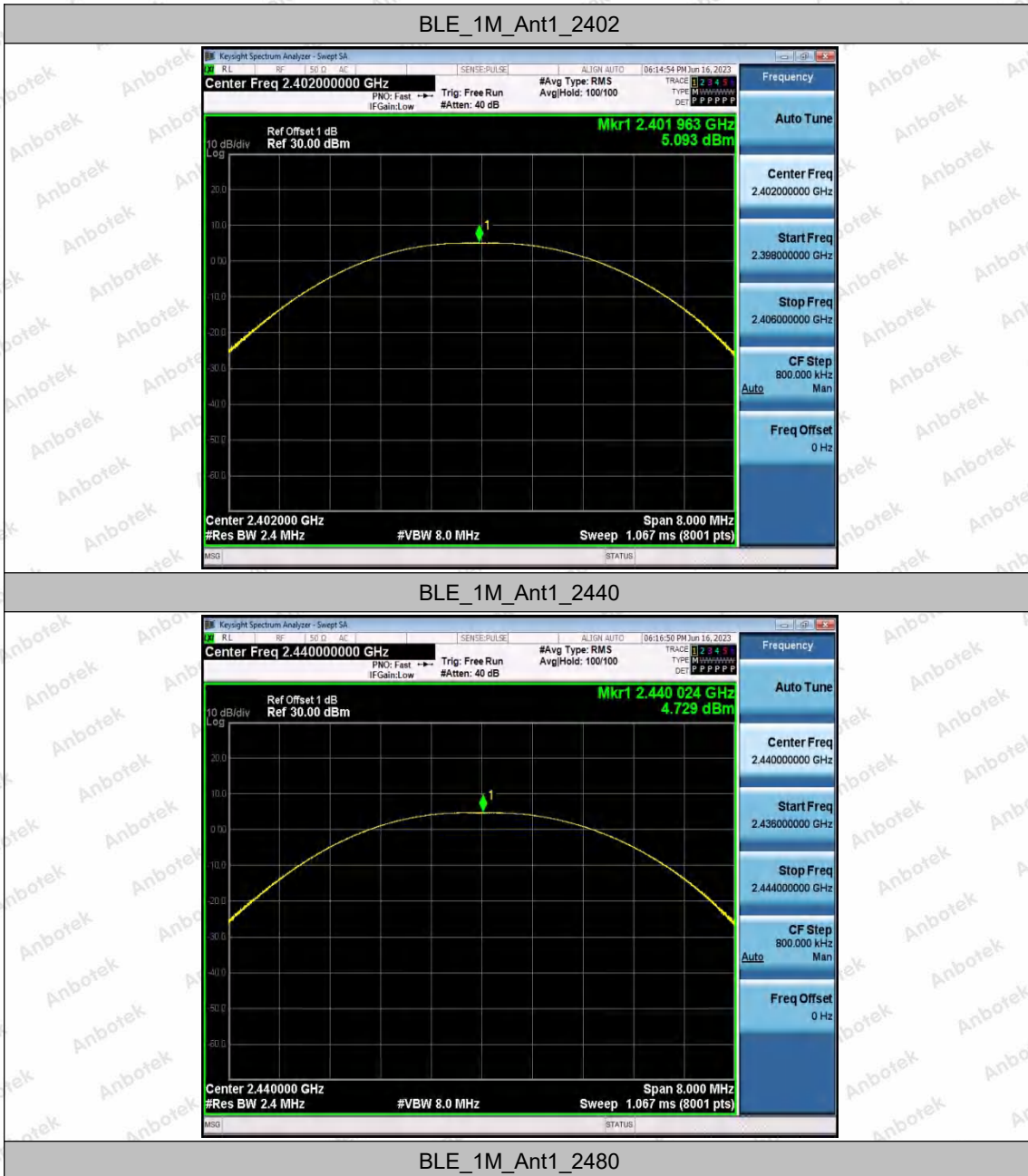
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Test Graphs Peak

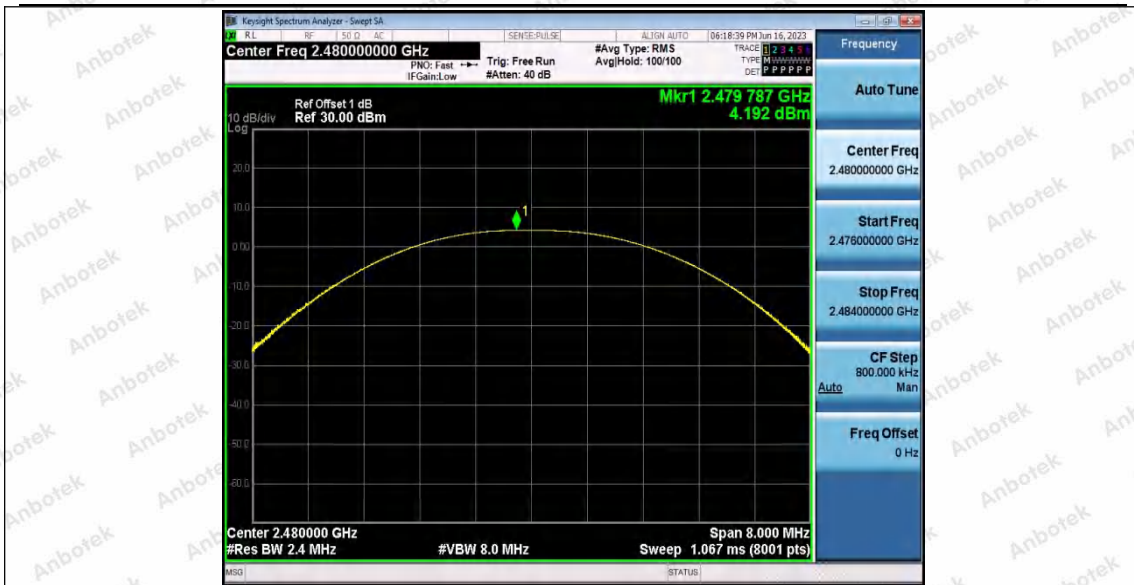


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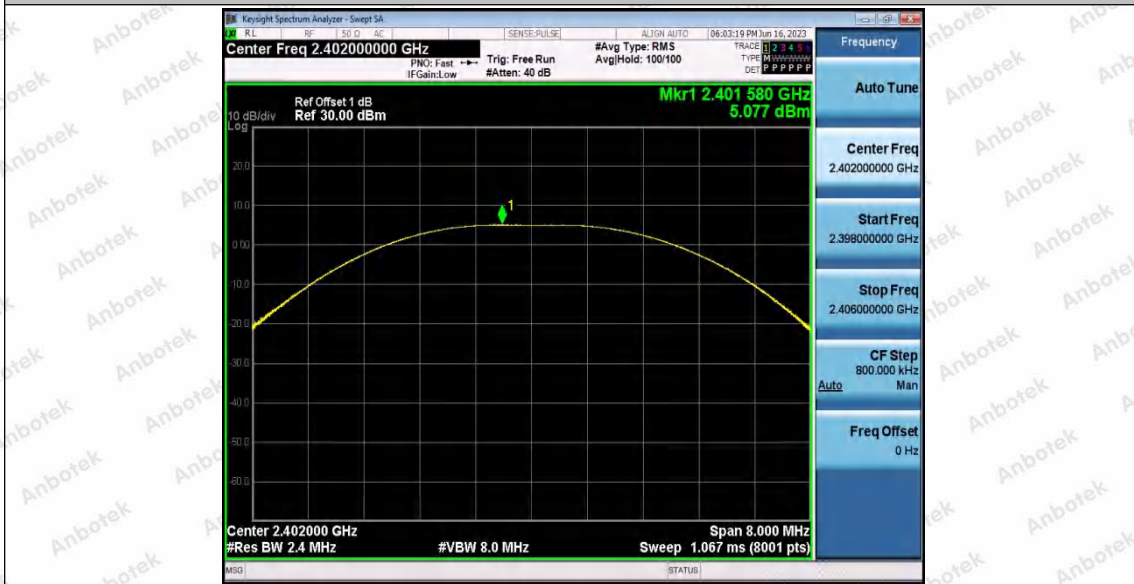
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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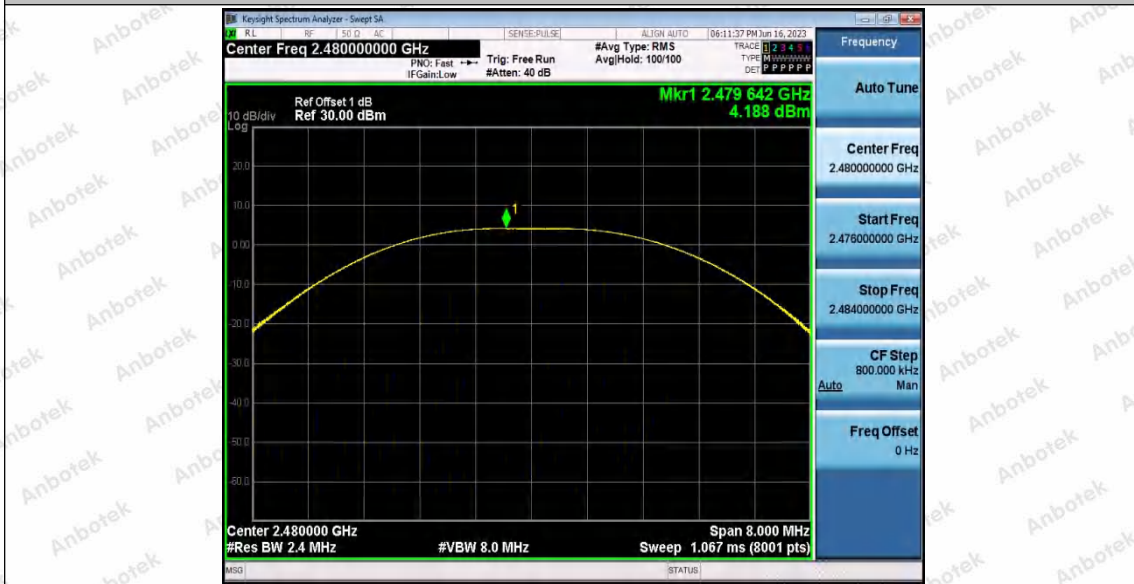
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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BLE_2M_Ant1_2480



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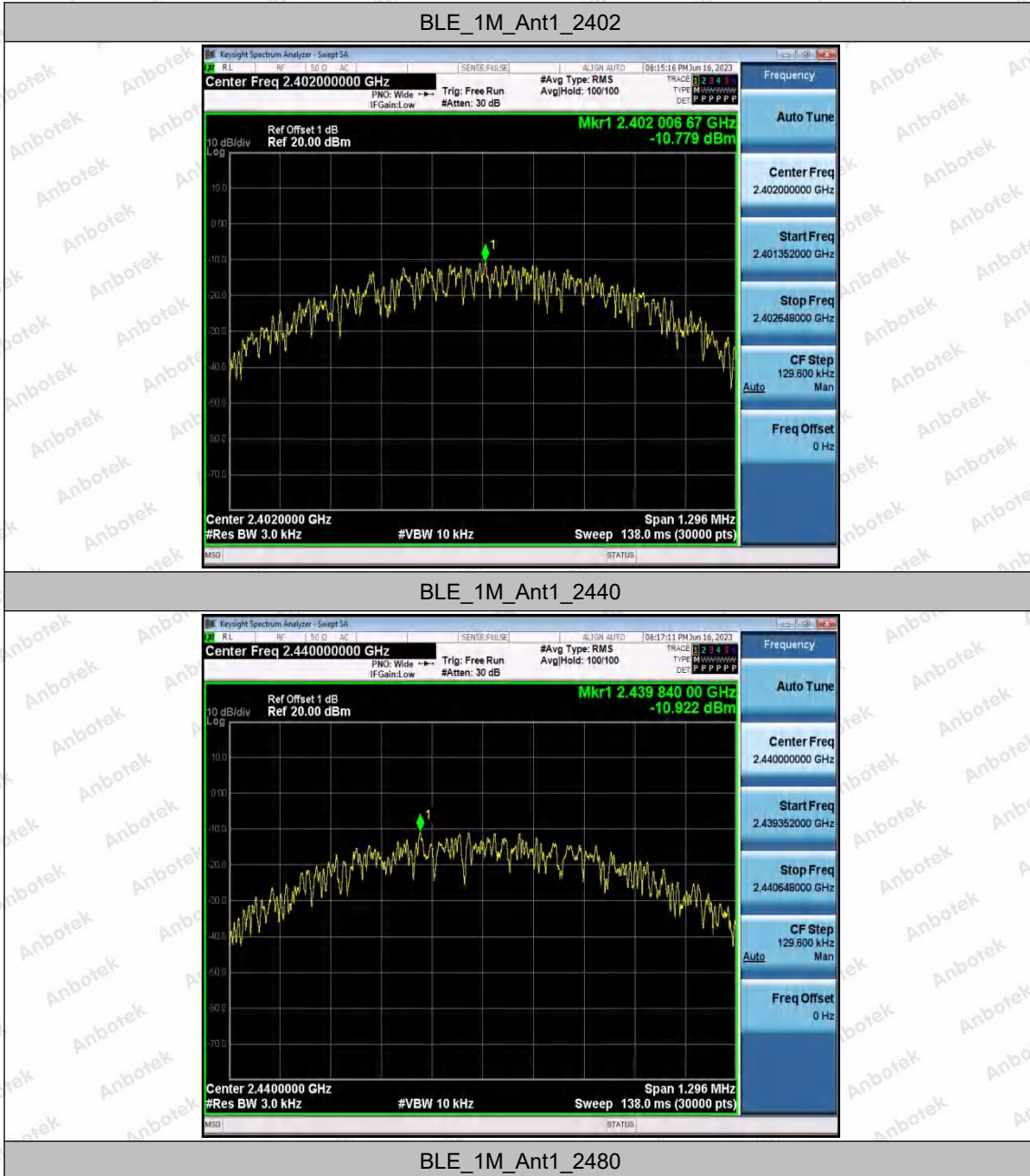
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.78	≤8.00	PASS
		2440	-10.92	≤8.00	PASS
		2480	-10.73	≤8.00	PASS
BLE_2M	Ant1	2402	-12.22	≤8.00	PASS
		2440	-12.47	≤8.00	PASS
		2480	-12.35	≤8.00	PASS



Test Graphs



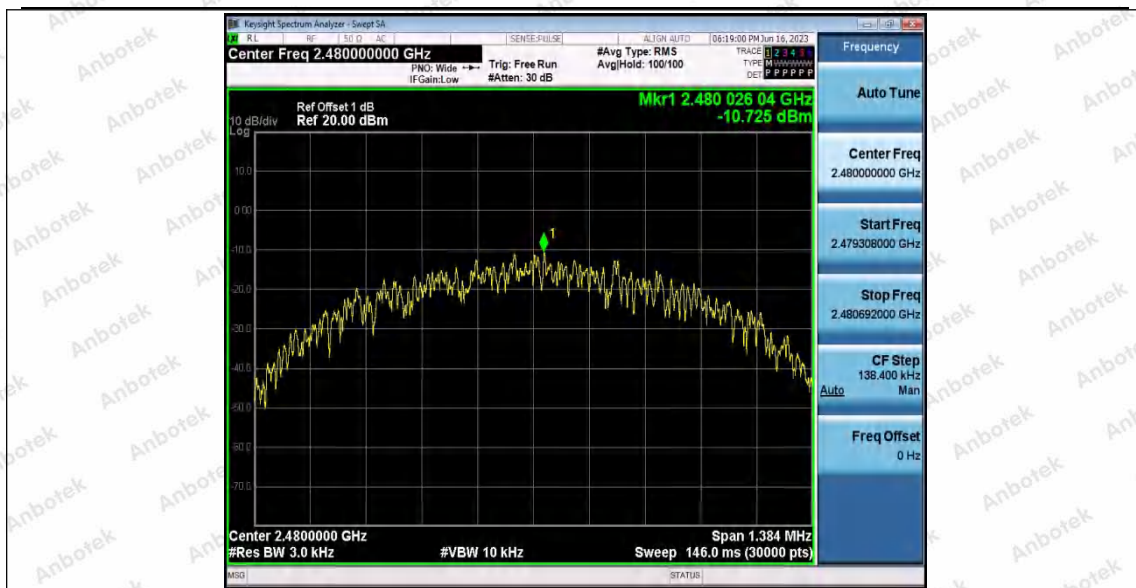
BLE_1M_Ant1_2480

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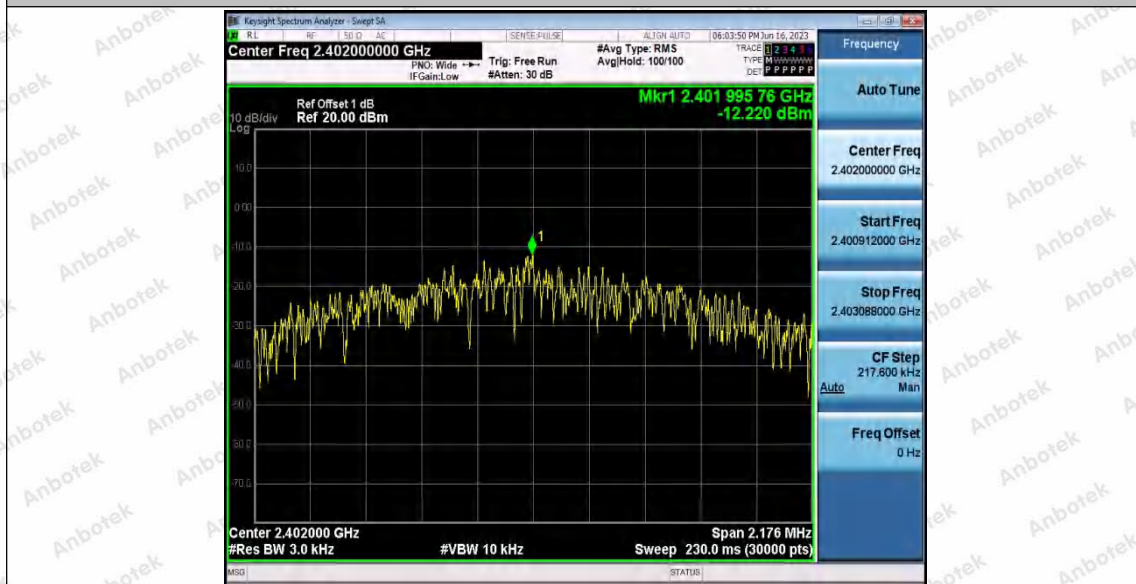
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

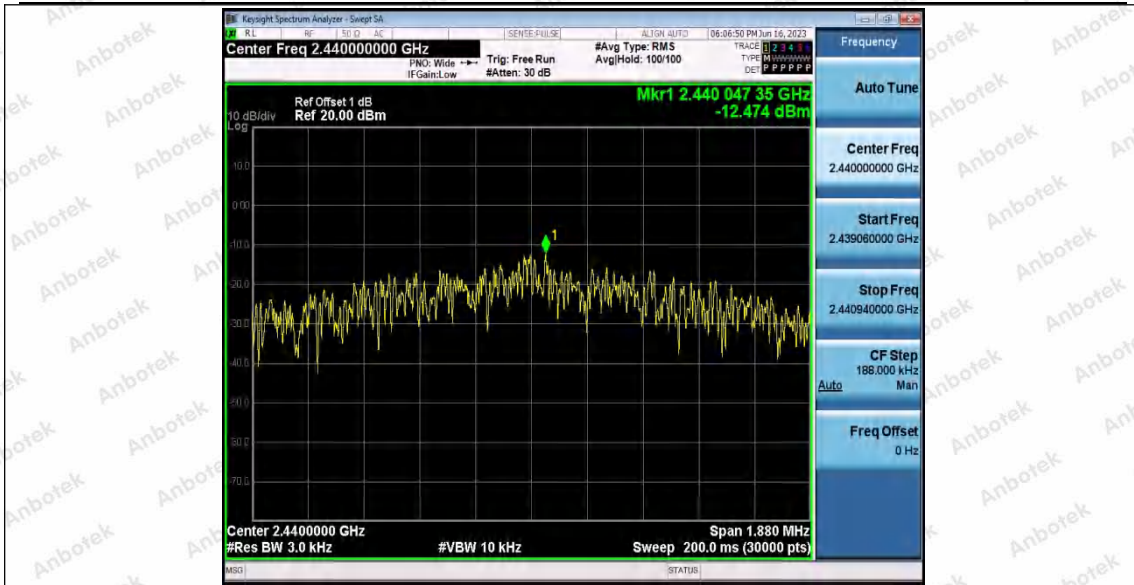
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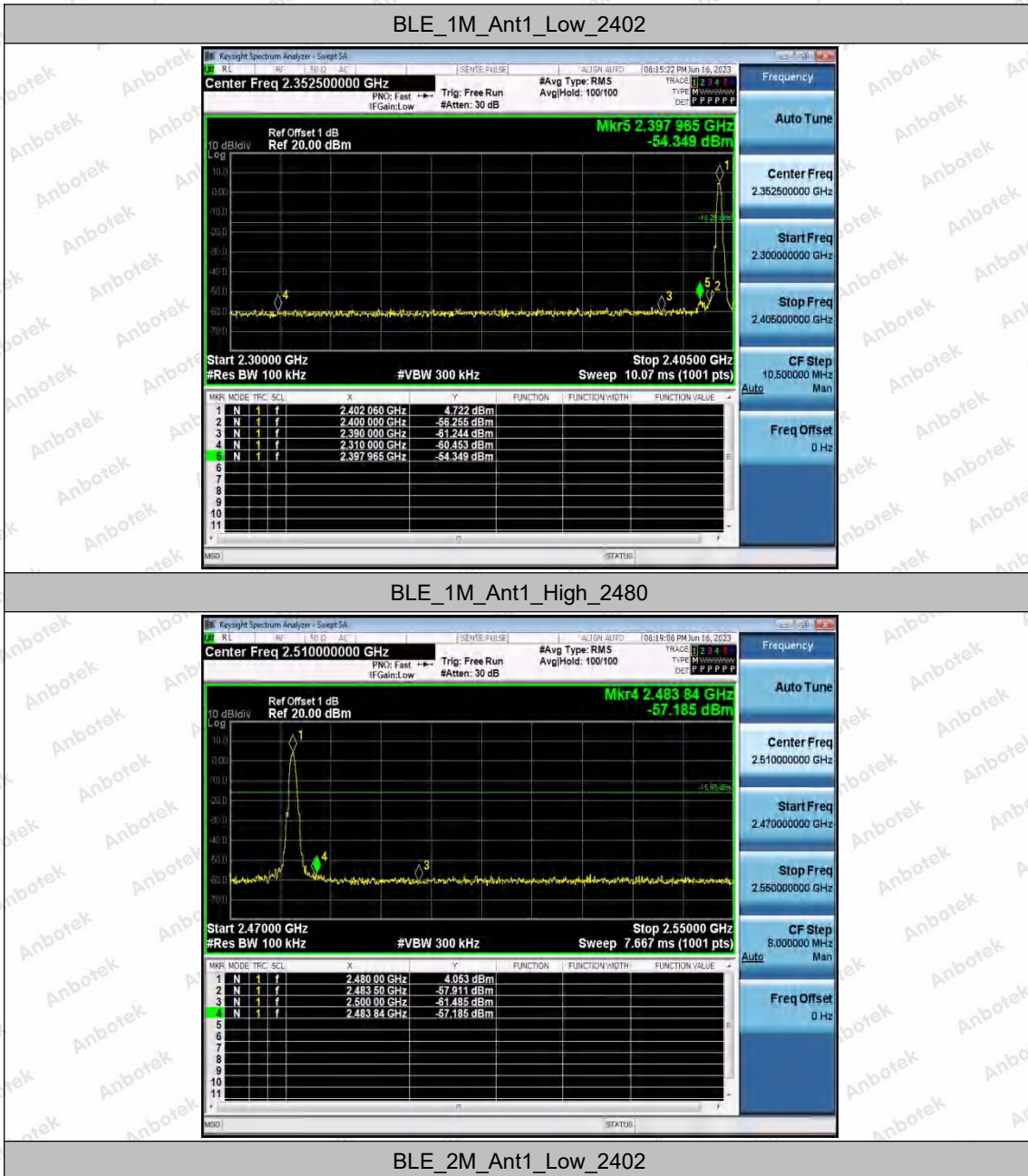
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.72	-54.35	≤-15.28	PASS
		High	2480	4.05	-57.19	≤-15.95	PASS
BLE_2M	Ant1	Low	2402	4.96	-28.85	≤-15.05	PASS
		High	2480	2.81	-56.23	≤-17.19	PASS



Test Graphs



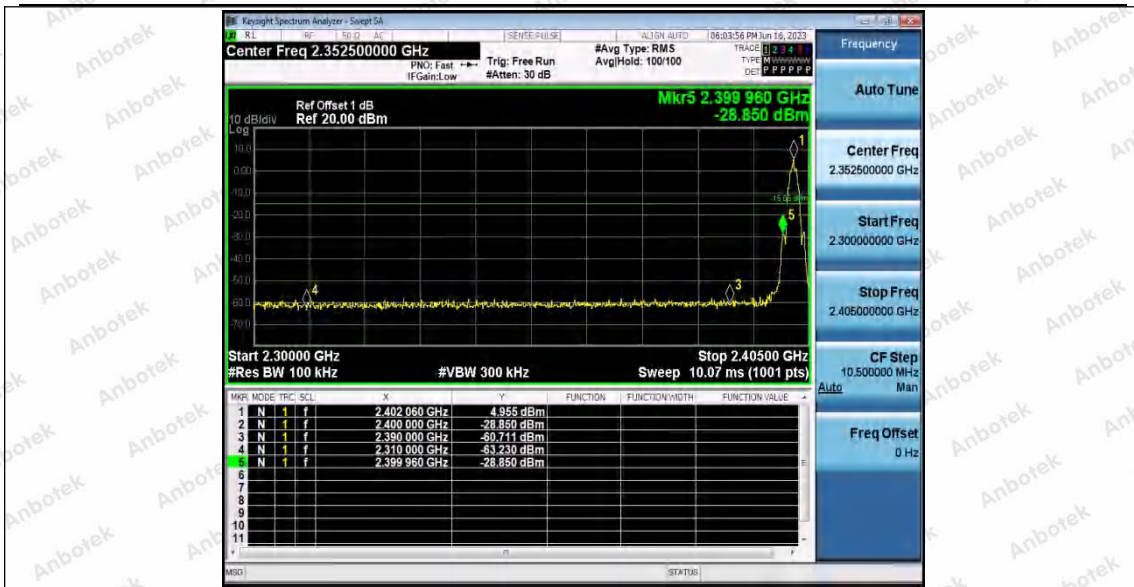
BLE_2M_Ant1_Low_2402

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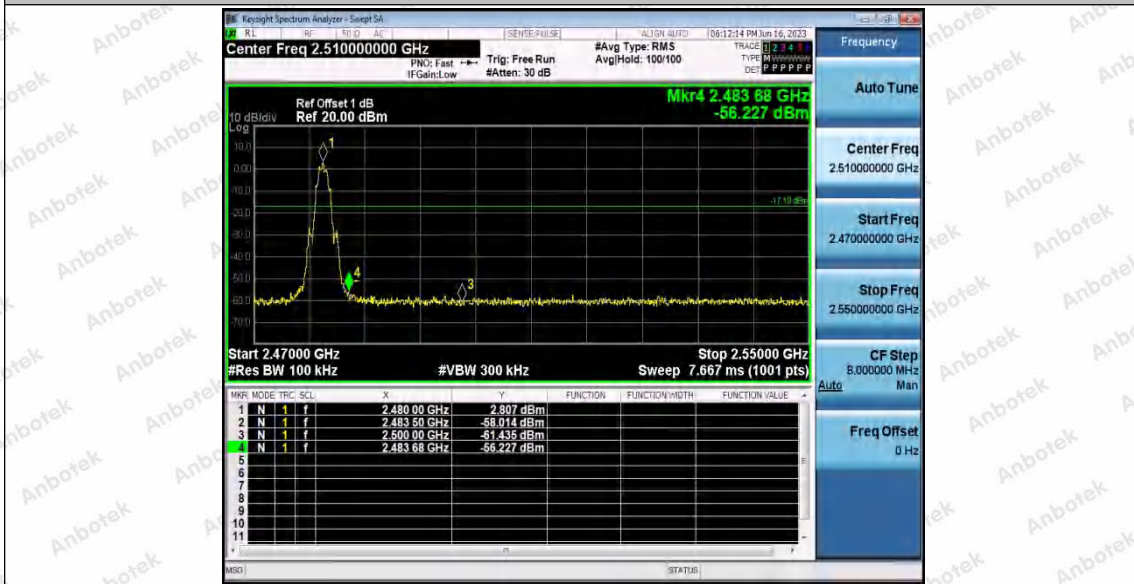
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BLE_2M_Ant1_High_2480



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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	4.88	4.88	---	PASS
			30~1000	4.88	-69.51	≤-15.12	PASS
			1000~26500	4.88	-44.92	≤-15.12	PASS
		2440	Reference	4.54	4.54	---	PASS
			30~1000	4.54	-68.21	≤-15.46	PASS
			1000~26500	4.54	-40.88	≤-15.46	PASS
		2480	Reference	2.91	2.91	---	PASS
			30~1000	2.91	-68.78	≤-17.09	PASS
			1000~26500	2.91	-41.13	≤-17.09	PASS
BLE_2M	Ant1	2402	Reference	2.65	2.65	---	PASS
			30~1000	2.65	-69.07	≤-17.35	PASS
			1000~26500	2.65	-42.37	≤-17.35	PASS
		2440	Reference	4.37	4.37	---	PASS
			30~1000	4.37	-68.76	≤-15.63	PASS
			1000~26500	4.37	-40.96	≤-15.63	PASS
		2480	Reference	-0.08	-0.08	---	PASS
			30~1000	-0.08	-69.24	≤-20.08	PASS
			1000~26500	-0.08	-40.93	≤-20.08	PASS

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Test Graphs

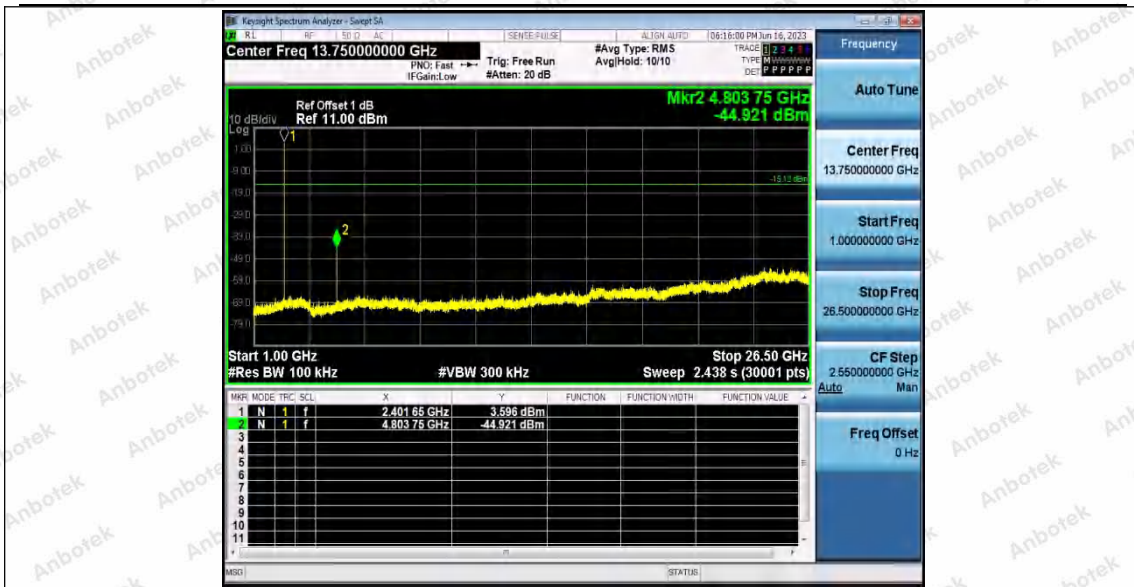


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BLE_1M_Ant1_2440_0~Reference



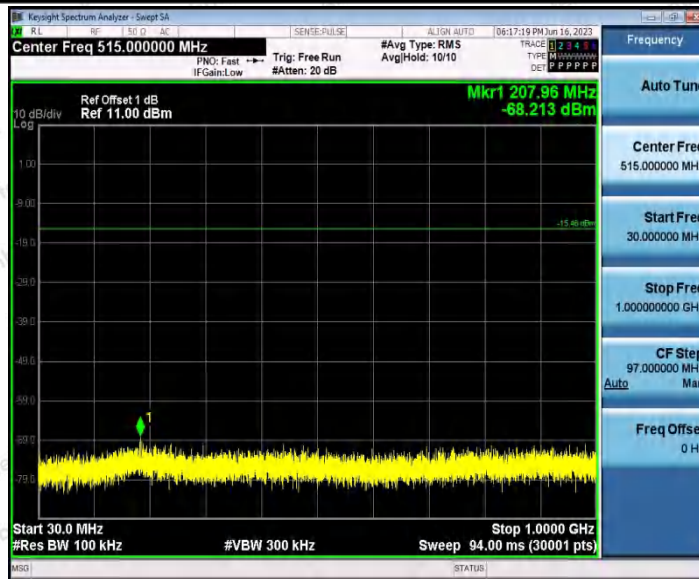
BLE_1M_Ant1_2440_30~1000

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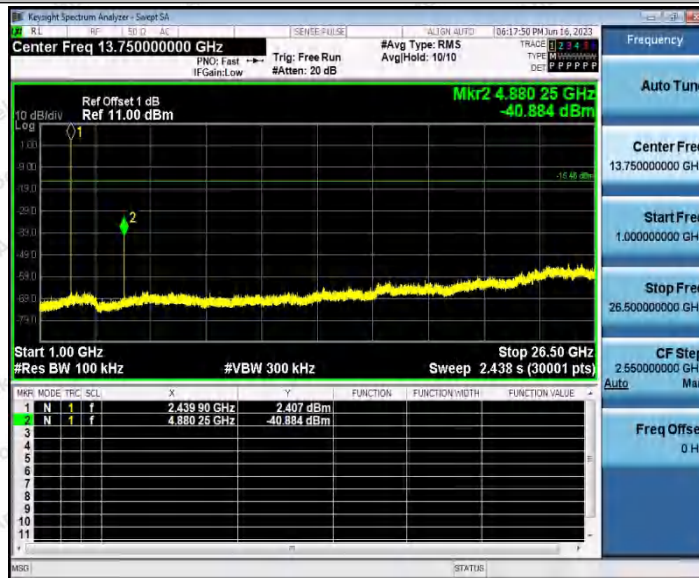
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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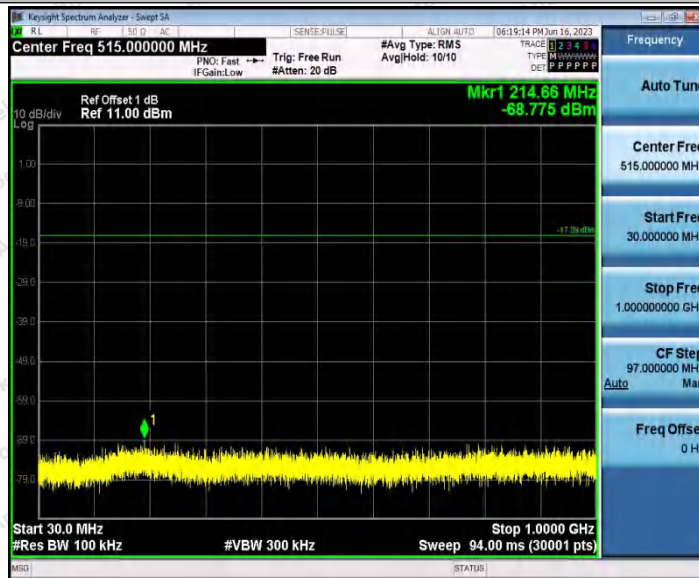
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BLE_1M_Ant1_2480_30~1000



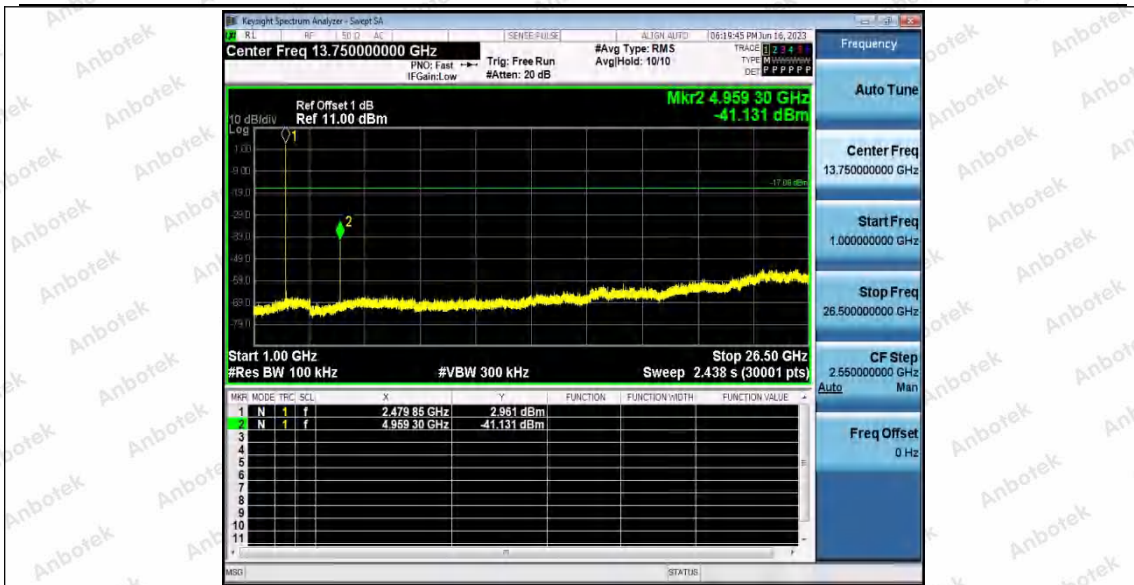
BLE_1M_Ant1_2480_1000~26500

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BLE_2M_Ant1_2402_0~Reference



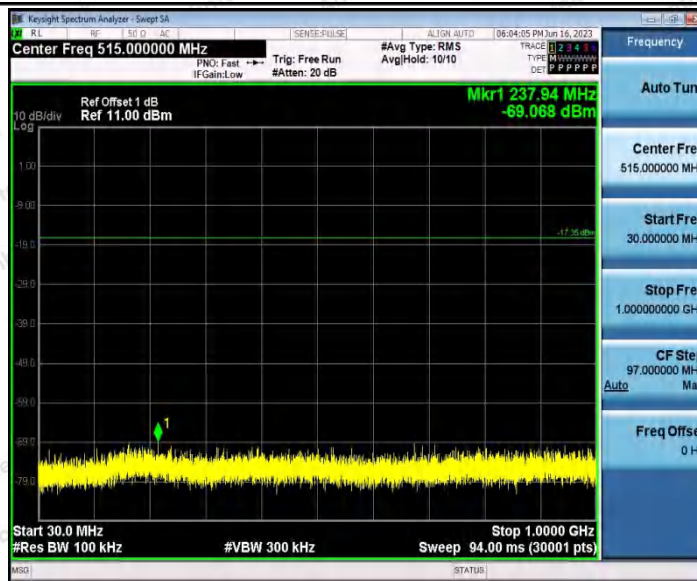
BLE_2M_Ant1_2402_30~1000

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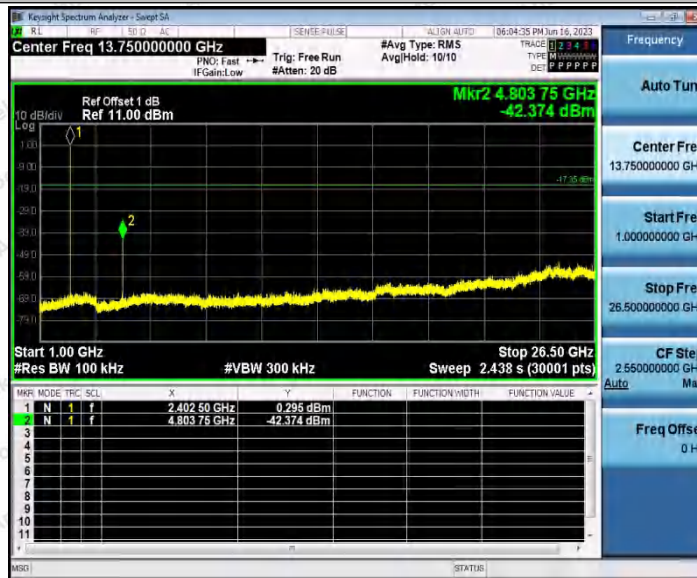
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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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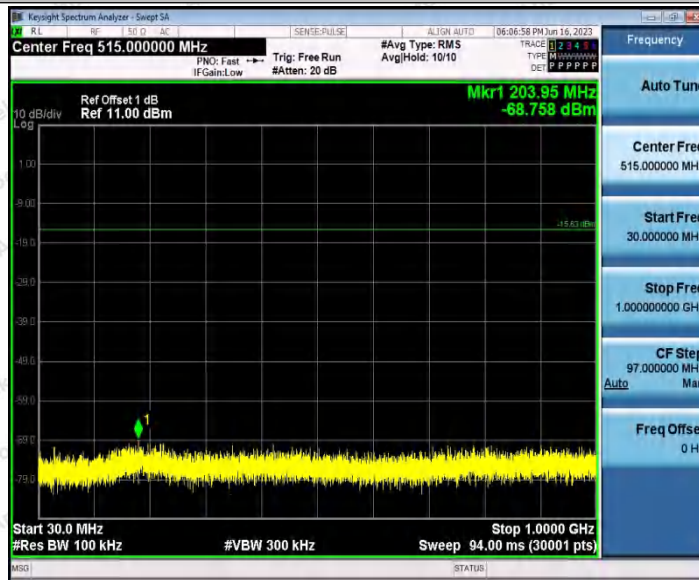
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BLE_2M_Ant1_2440_30~1000



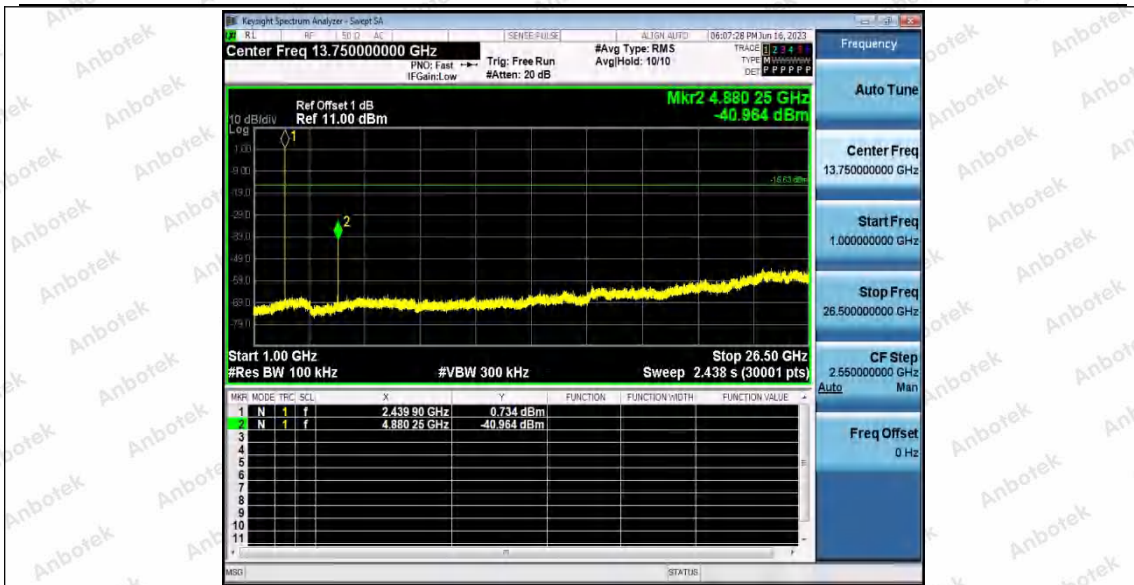
BLE_2M_Ant1_2440_1000~26500

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BLE_2M_Ant1_2480_0~Reference



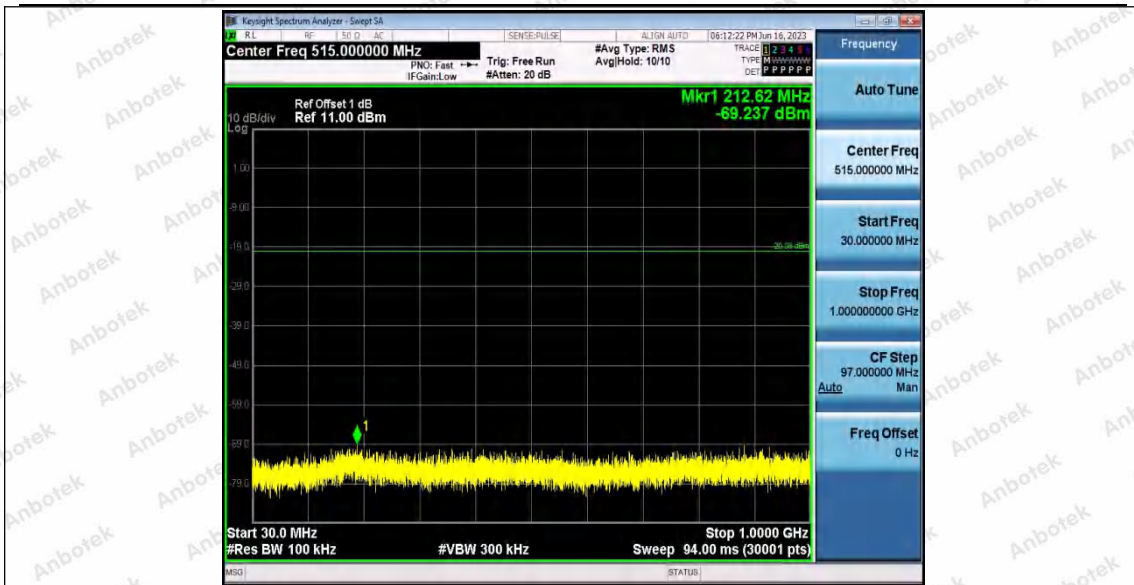
BLE_2M_Ant1_2480_30~1000

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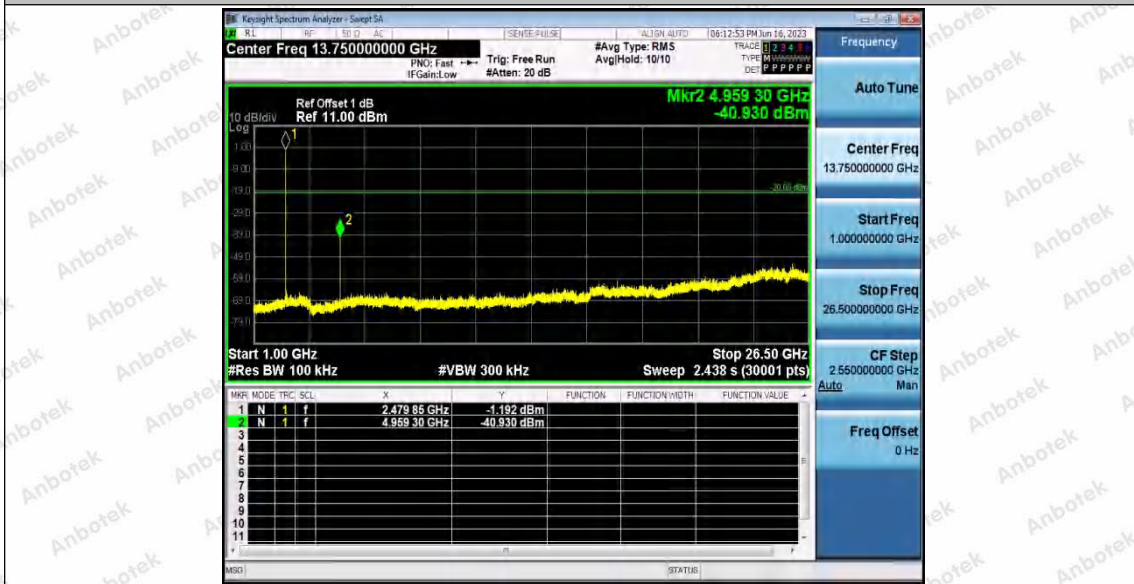
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BLE_2M_Ant1_2480_1000~26500



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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	0.42	0.63	66.67	1.76
		2440	0.41	0.63	65.08	1.87
		2480	0.42	0.63	66.67	1.76
BLE_2M	Ant1	2402	0.23	0.63	36.51	4.38
		2440	0.23	0.63	36.51	4.38
		2480	0.23	0.63	36.51	4.38

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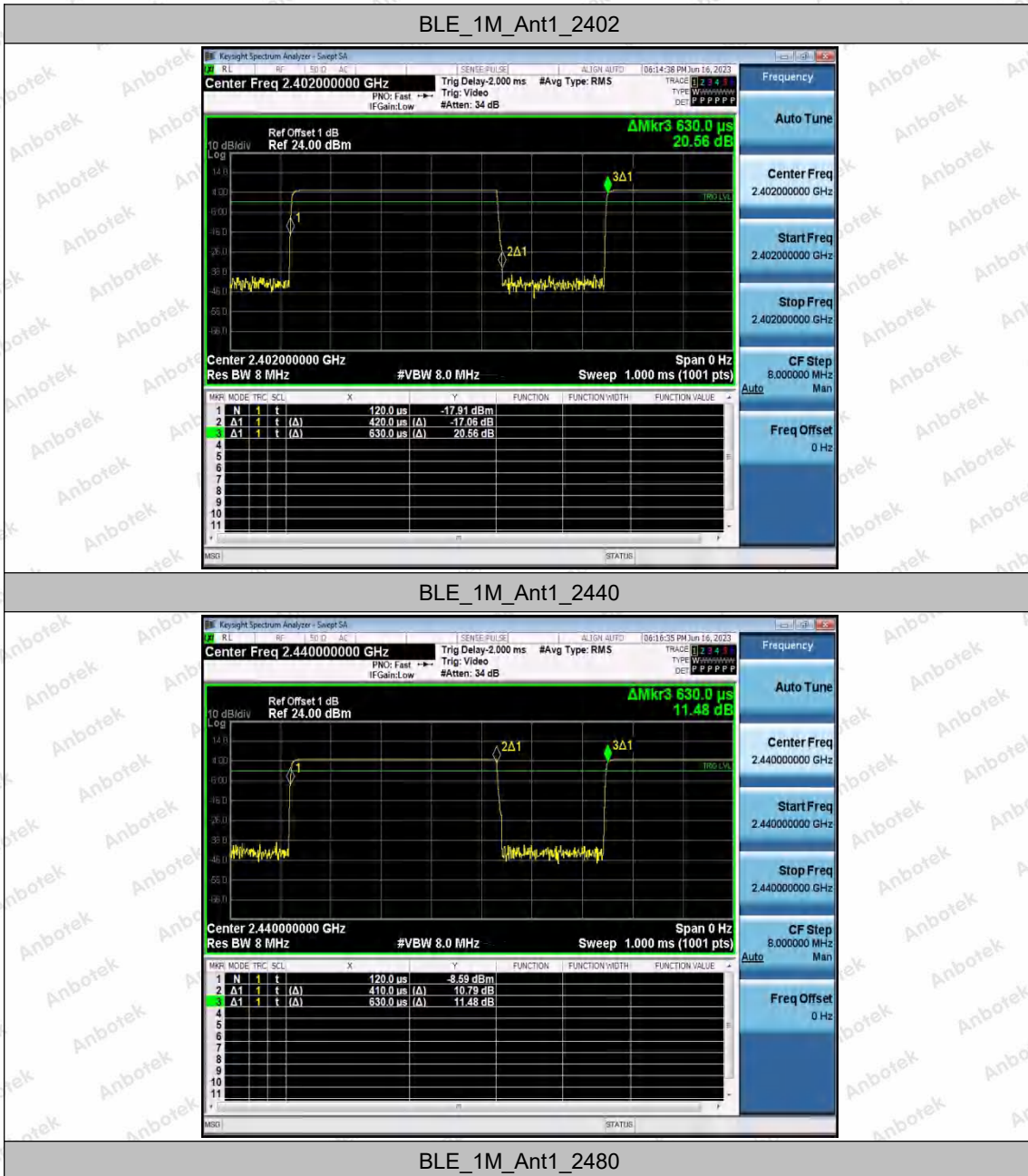
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

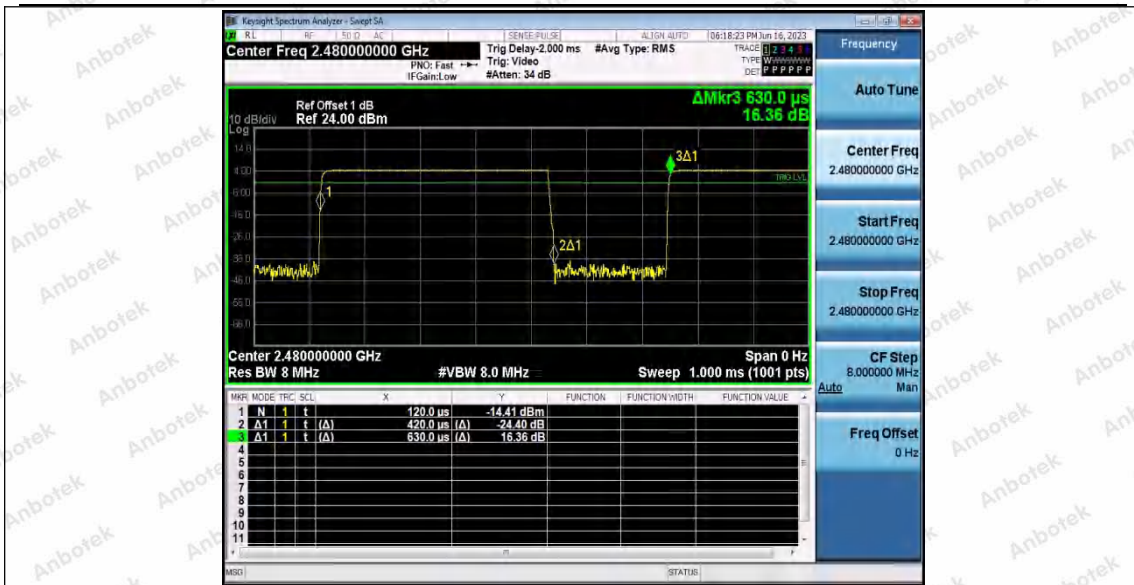


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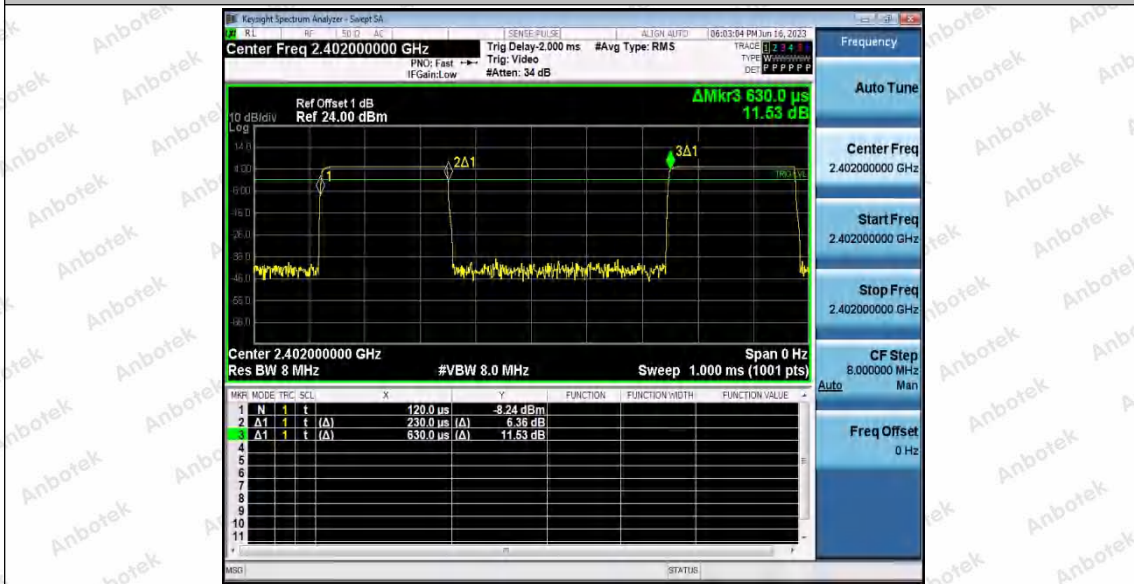


Test Graphs





BLE_2M_Ant1_2402



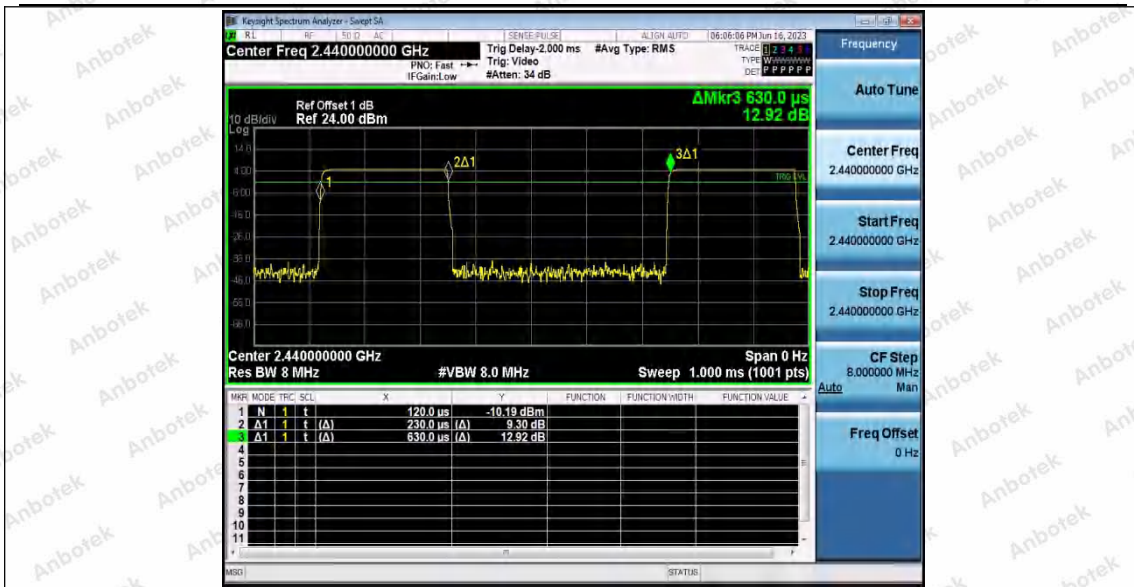
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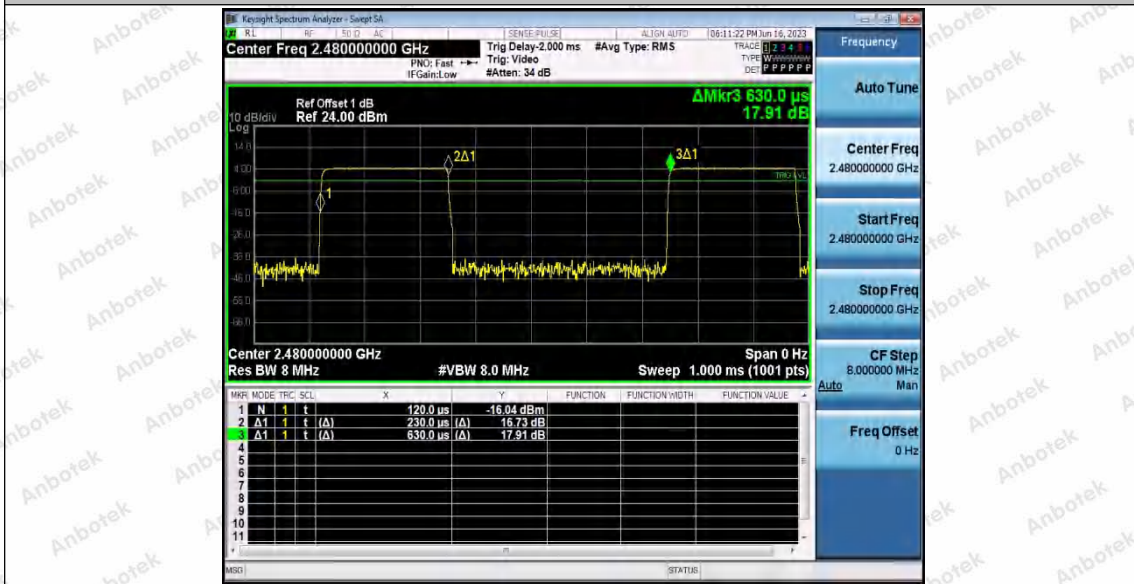
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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BLE_2M_Ant1_2480



---End---

