

Appendix Test Data

Report No.:	18220WC40009702	Test Sample No.:	1-2-2
Start Test Date:	2024.1.31	Finish Test Date:	2024.2.1
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.1°C	Relative Humidity:	46%
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	0.660	2401.672	2402.332	0.5	PASS
		2440	0.728	2439.636	2440.364	0.5	PASS
		2480	0.708	2479.640	2480.348	0.5	PASS
BLE_2M	Ant1	2402	1.172	2401.420	2402.592	0.5	PASS
		2440	1.268	2439.360	2440.628	0.5	PASS
		2480	1.156	2479.428	2480.584	0.5	PASS

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Test Graphs





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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	1.0231	2401.4906	2402.5137
		2440	1.0324	2439.4829	2440.5153
		2480	1.0301	2479.4837	2480.5138
BLE_2M	Ant1	2402	2.0483	2400.9906	2403.0389
		2440	2.0480	2438.9933	2441.0413
		2480	2.0583	2478.9877	2481.0460

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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	8.48	≤30	PASS
		2440	7.93	≤30	PASS
		2480	8.2	≤30	PASS
BLE_2M	Ant1	2402	8.36	≤30	PASS
		2440	7.94	≤30	PASS
		2480	8.16	≤30	PASS

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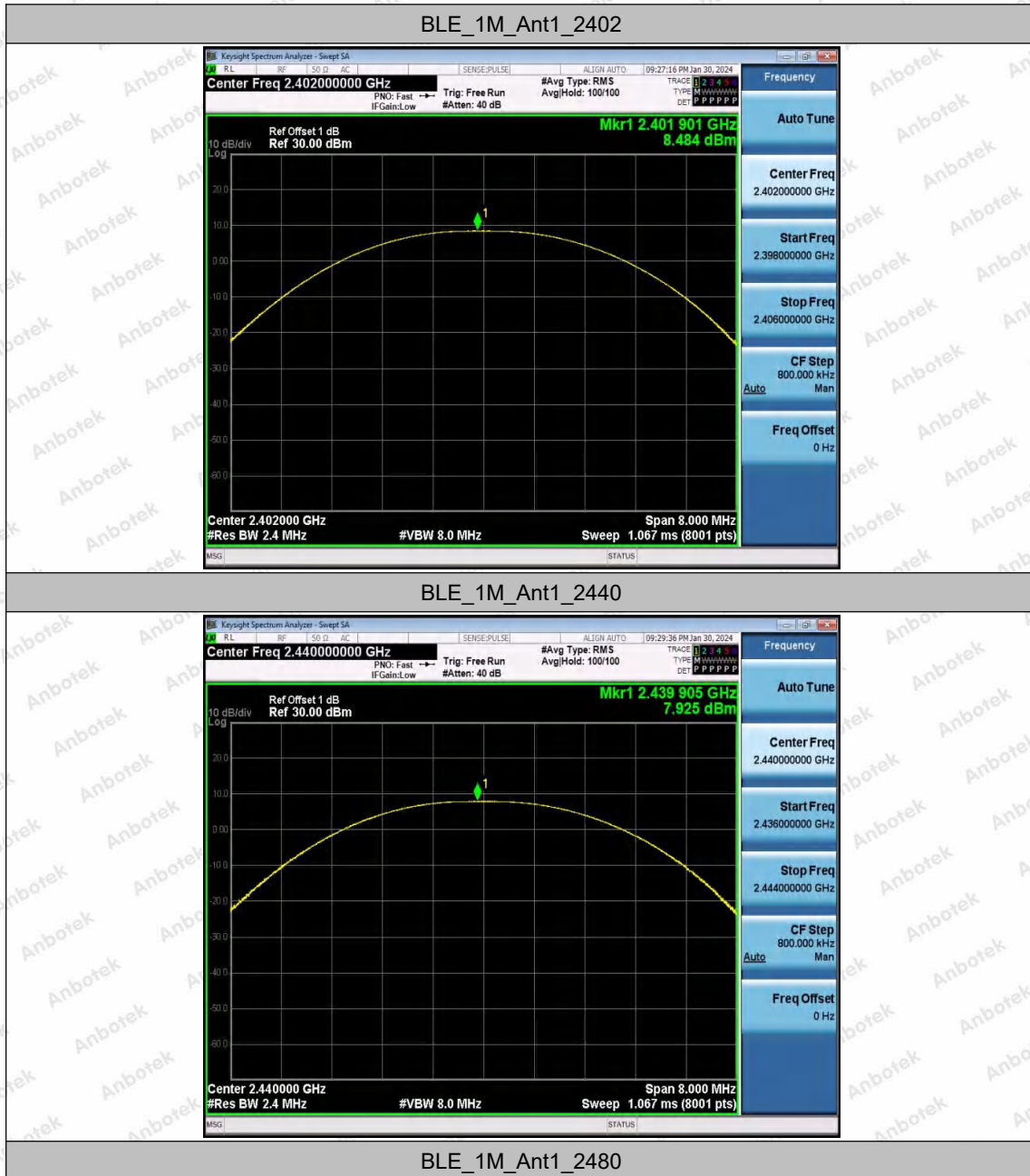
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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Test Graphs Peak



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BLE_2M_Ant1_2402



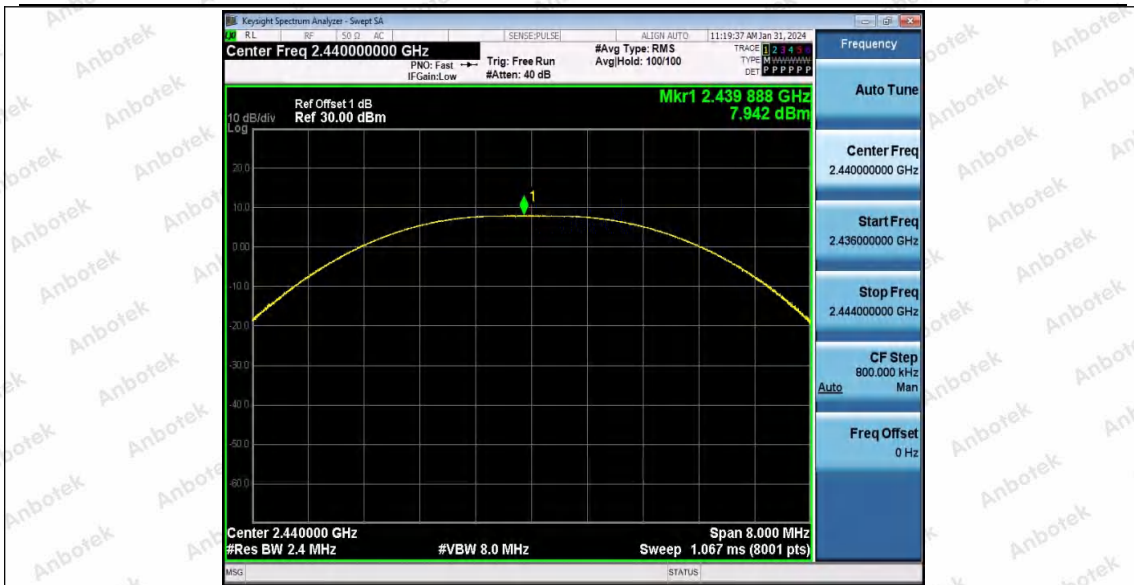
BLE_2M_Ant1_2440

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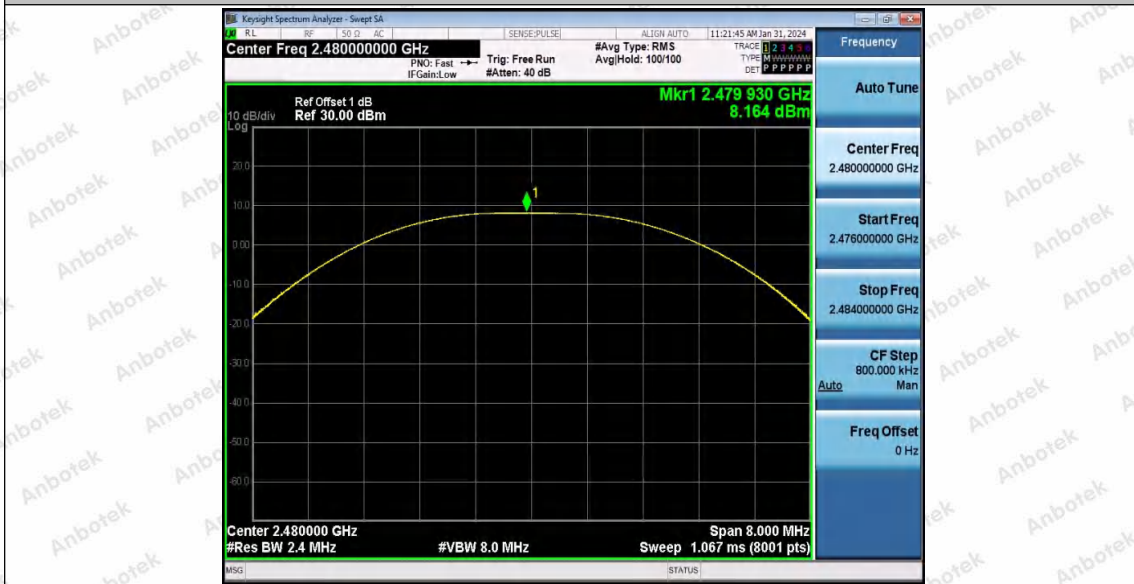
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BLE_2M_Ant1_2480



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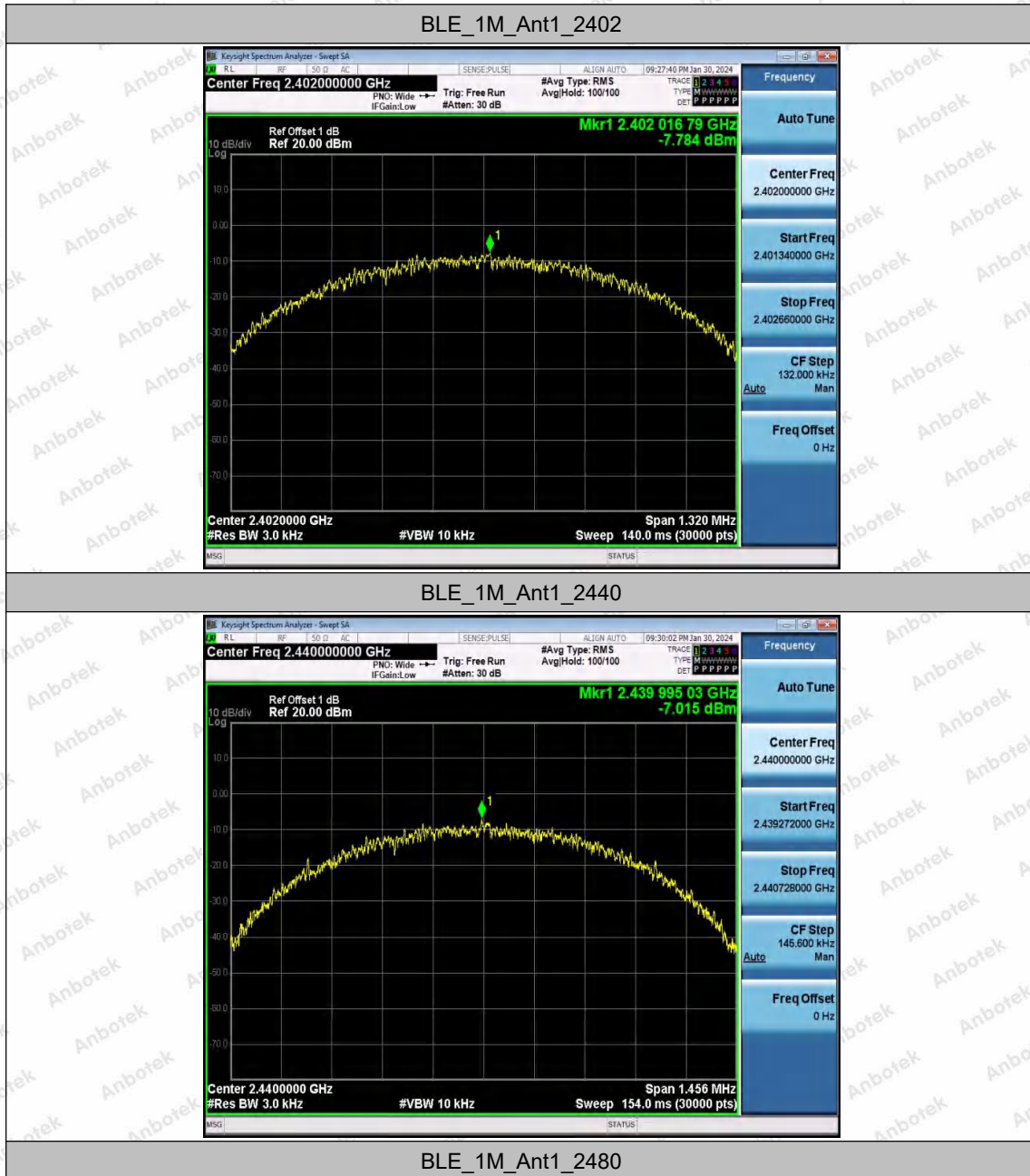
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.78	≤8.00	PASS
		2440	-7.02	≤8.00	PASS
		2480	-7.55	≤8.00	PASS
BLE_2M	Ant1	2402	-11.21	≤8.00	PASS
		2440	-11.49	≤8.00	PASS
		2480	-11.19	≤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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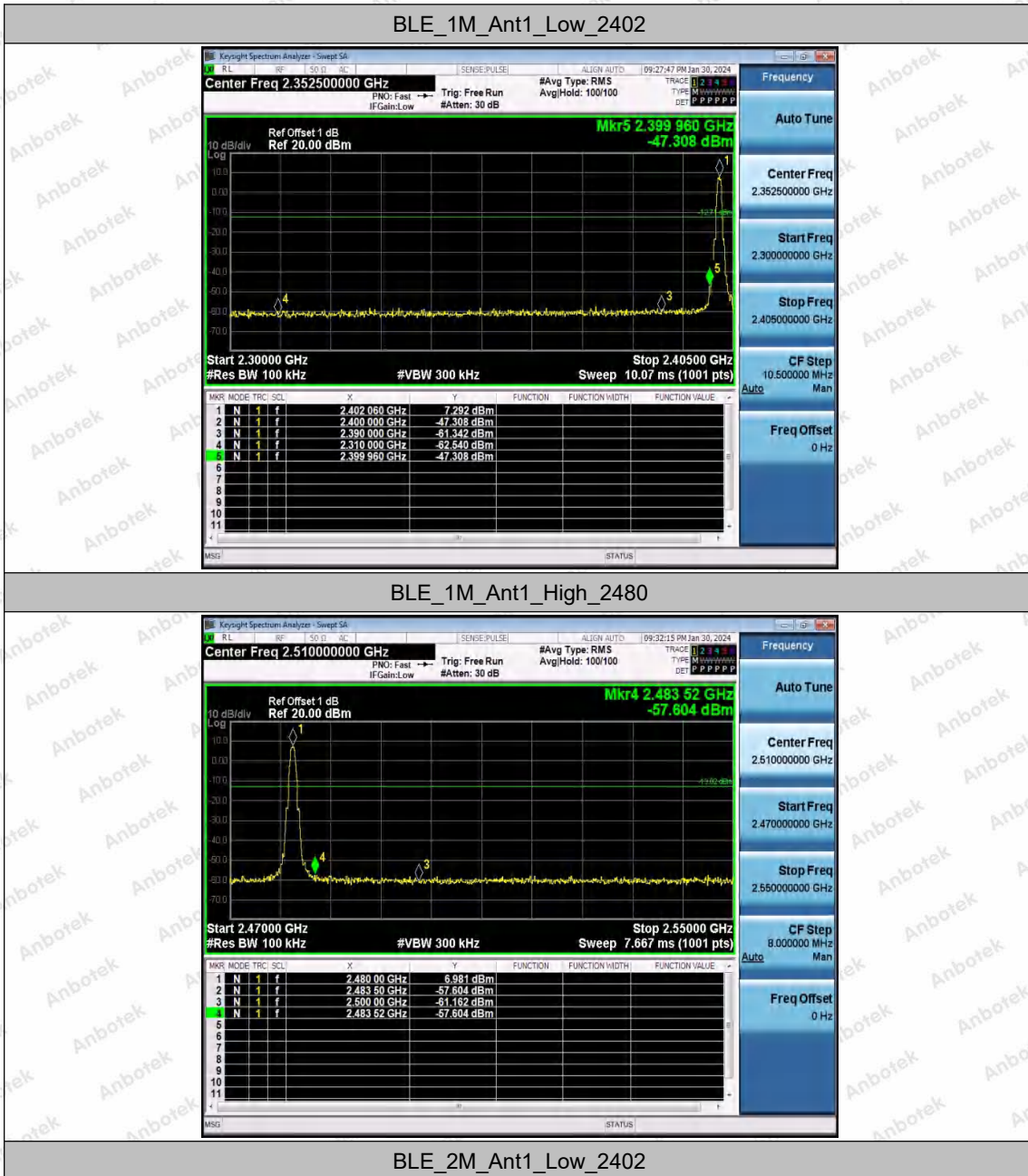
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.29	-47.31	≤-12.71	PASS
		High	2480	6.98	-57.6	≤-13.02	PASS
BLE_2M	Ant1	Low	2402	7.31	-27.59	≤-12.69	PASS
		High	2480	6.80	-56.55	≤-13.2	PASS



Test Graphs

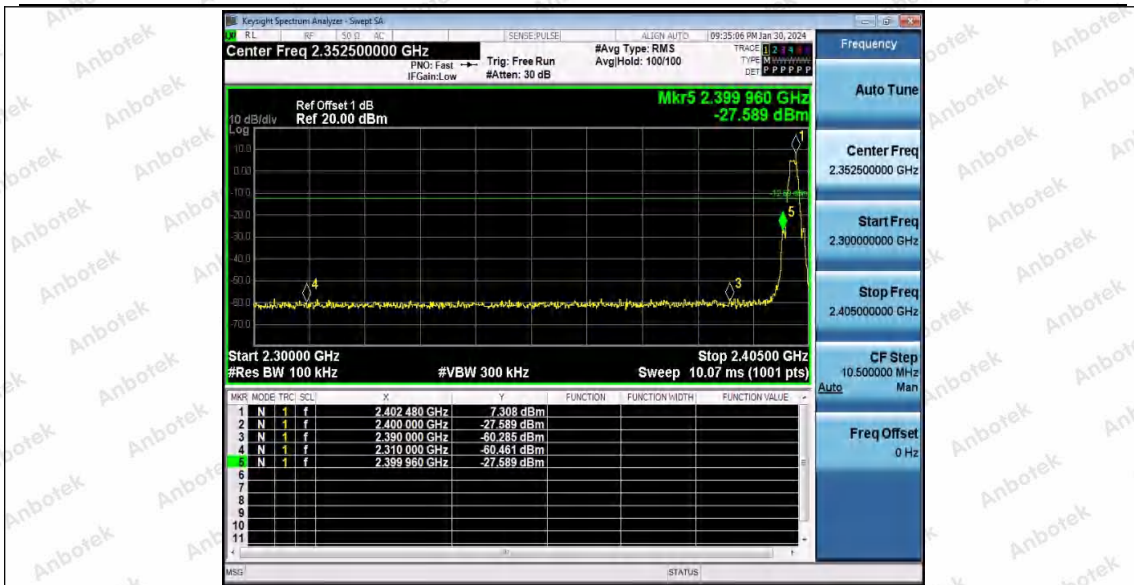


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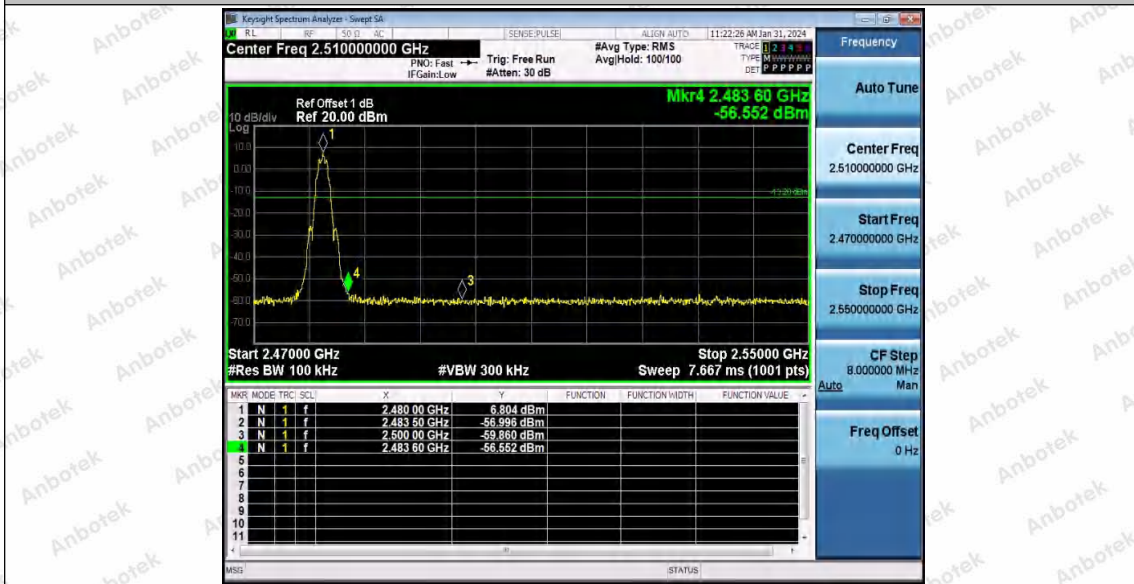
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BLE_2M_Ant1_High_2480



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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	7.93	7.93	---	PASS
			30~1000	7.93	-69.14	≤-12.07	PASS
			1000~26500	7.93	-47.76	≤-12.07	PASS
		2440	Reference	6.73	6.73	---	PASS
			30~1000	6.73	-68.69	≤-13.27	PASS
			1000~26500	6.73	-46.08	≤-13.27	PASS
		2480	Reference	6.42	6.42	---	PASS
			30~1000	6.42	-66.51	≤-13.58	PASS
			1000~26500	6.42	-47.01	≤-13.58	PASS
BLE_2M	Ant1	2402	Reference	4.71	4.71	---	PASS
			30~1000	4.71	-68	≤-15.29	PASS
			1000~26500	4.71	-50.08	≤-15.29	PASS
		2440	Reference	3.80	3.80	---	PASS
			30~1000	3.80	-68.57	≤-16.2	PASS
			1000~26500	3.80	-49.88	≤-16.2	PASS
		2480	Reference	6.71	6.71	---	PASS
			30~1000	6.71	-68.83	≤-13.29	PASS
			1000~26500	6.71	-49.4	≤-13.29	PASS



Test Graphs

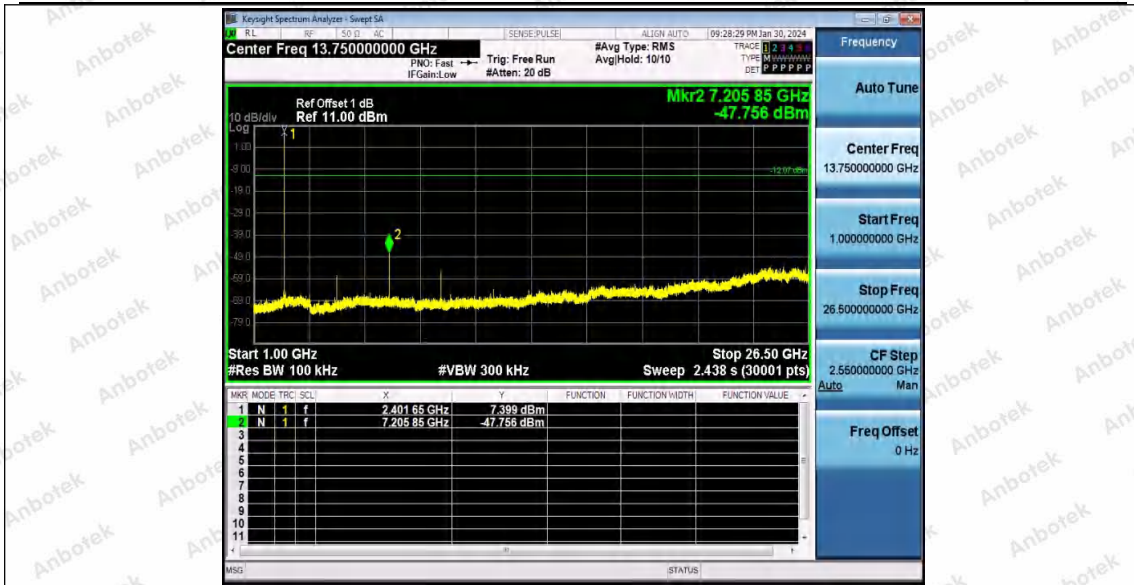


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BLE_1M_Ant1_2440_0~Reference



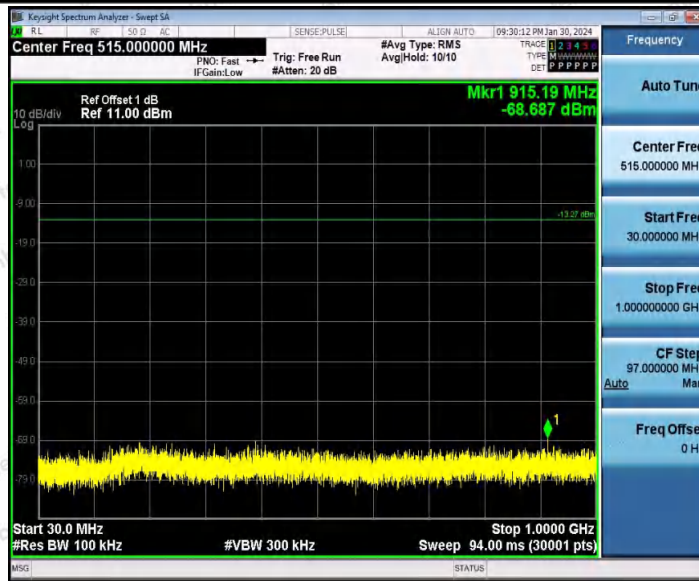
BLE_1M_Ant1_2440_30~100

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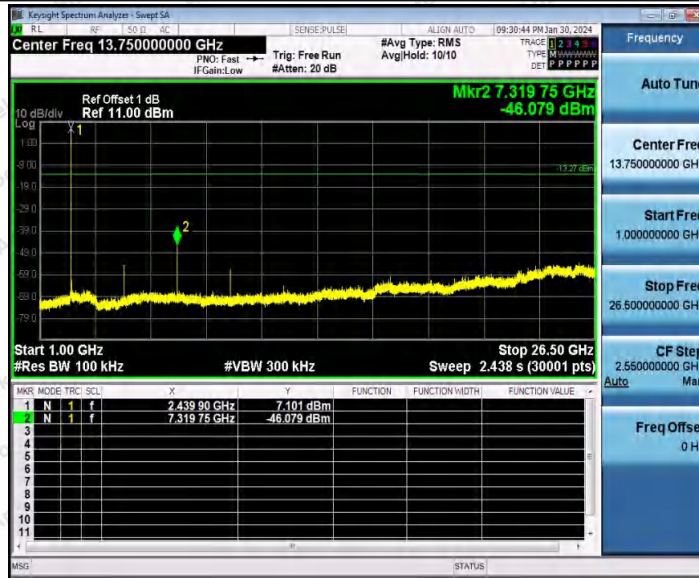
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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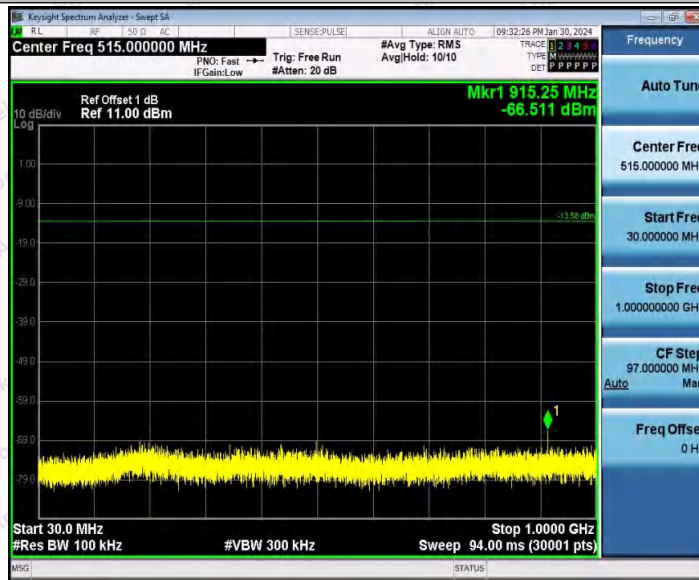
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

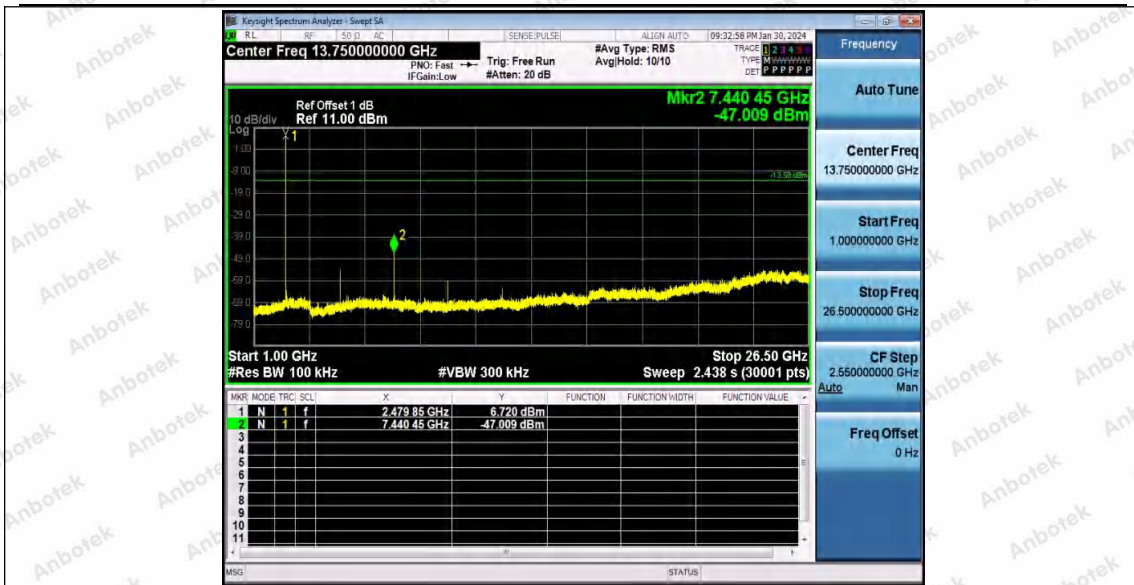
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BLE_2M_Ant1_2402_0~Reference



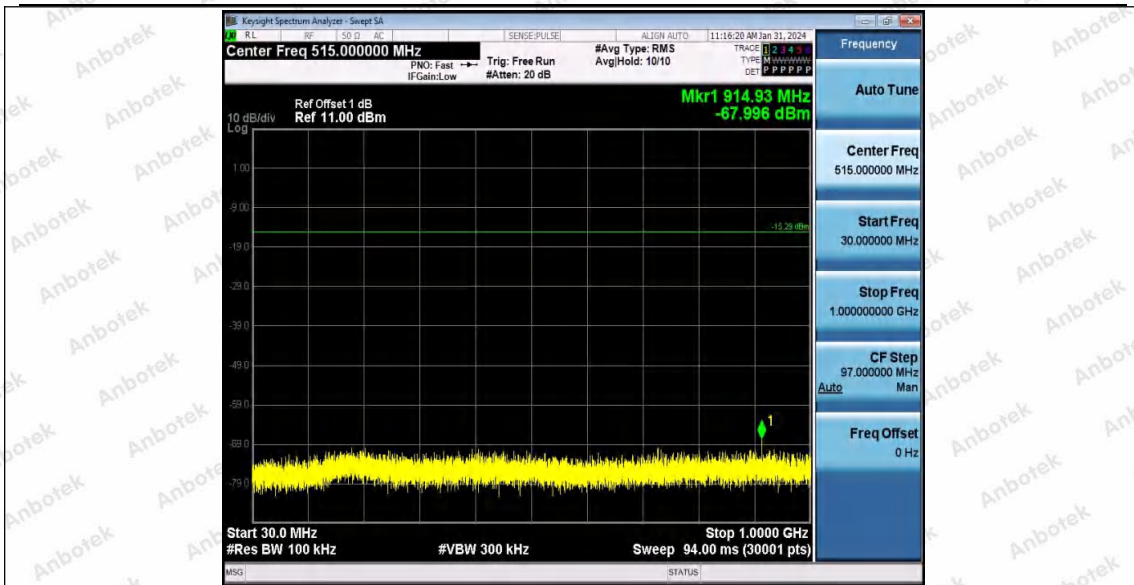
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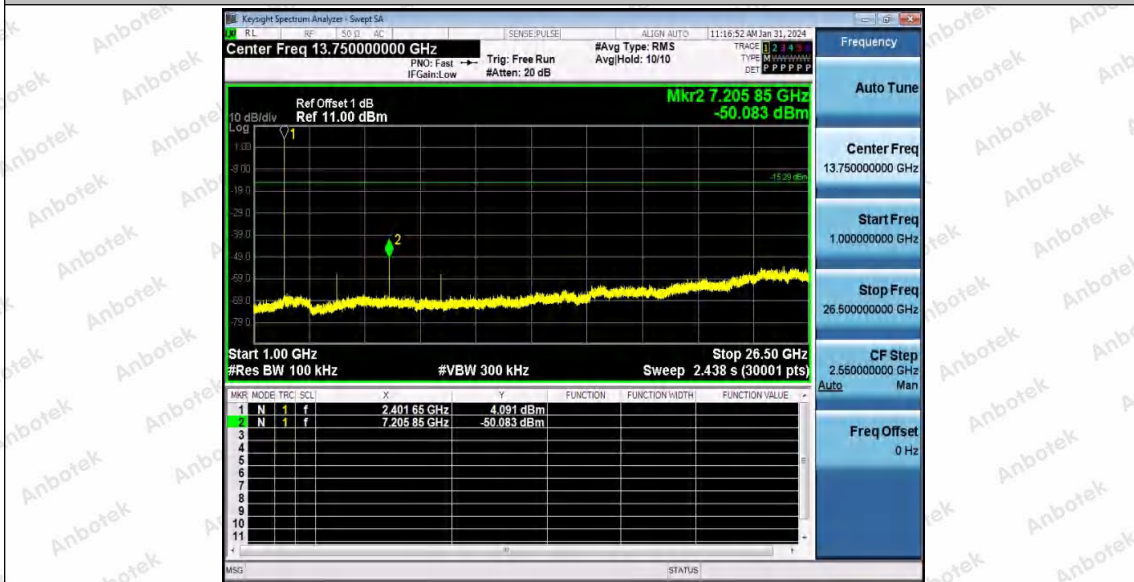
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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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BLE_2M_Ant1_2440_30~1000



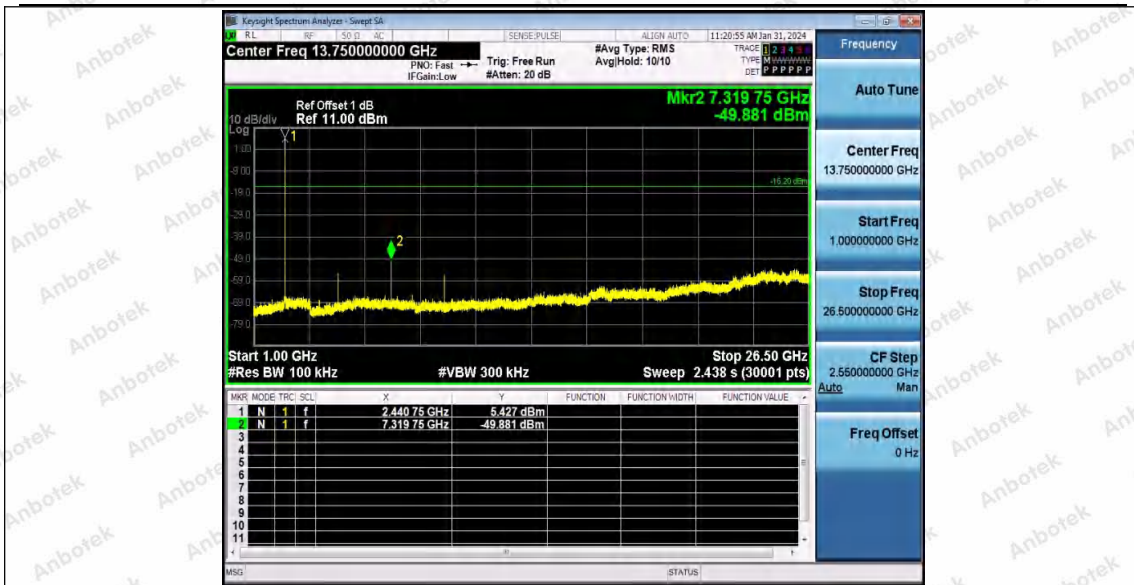
BLE_2M_Ant1_2440_1000~26500

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BLE_2M_Ant1_2480_0~Reference



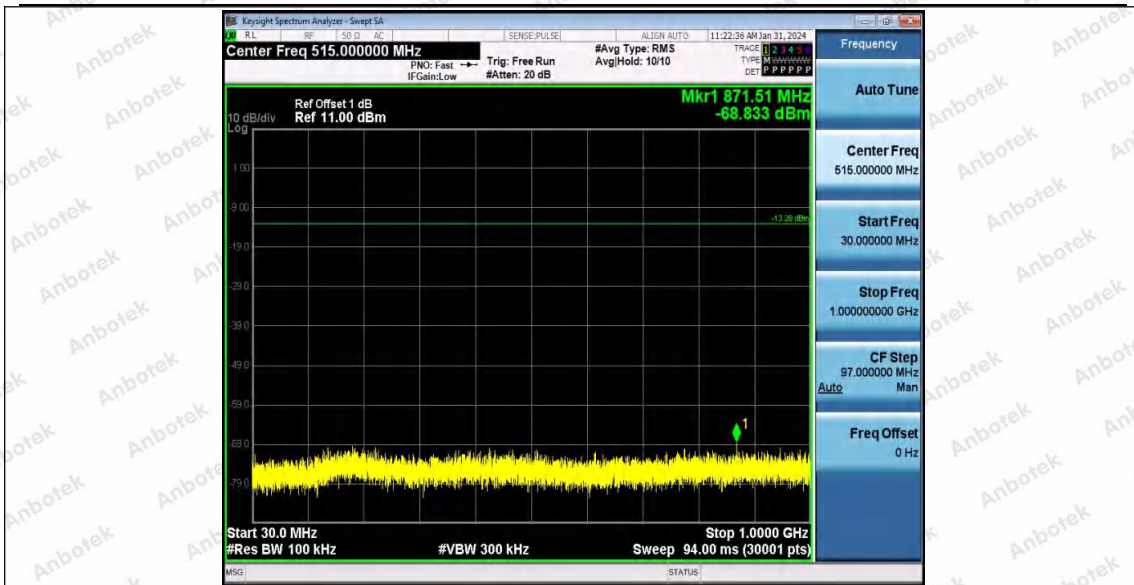
BLE_2M_Ant1_2480_30~100

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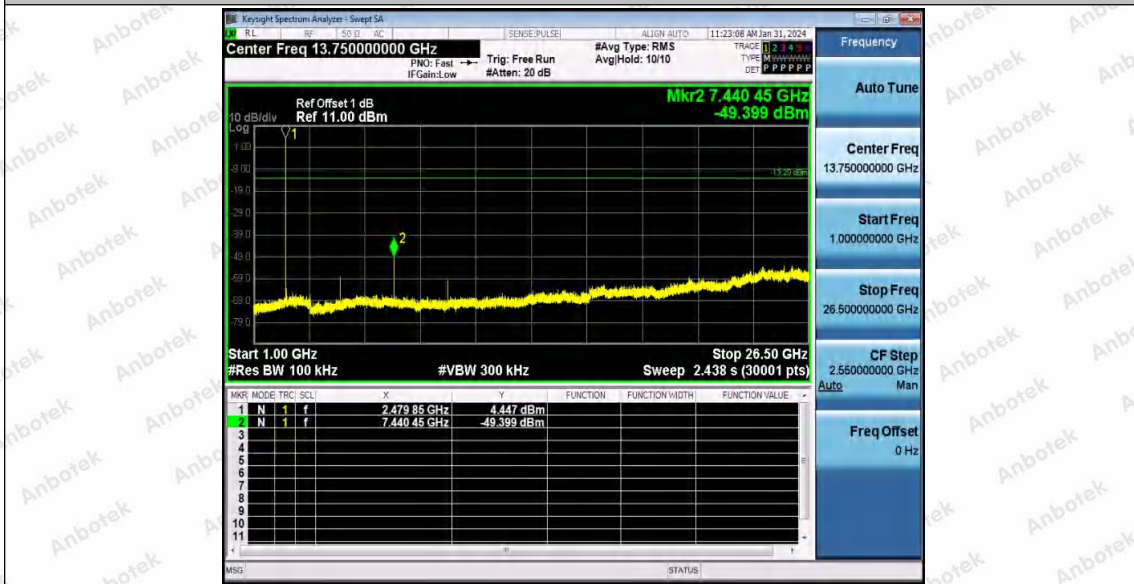
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.50	85.20	0.70
		2440	2.13	2.50	85.20	0.70
		2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	1.07	1.88	56.91	2.45
		2440	1.08	1.88	57.45	2.41
		2480	1.07	1.87	57.22	2.42

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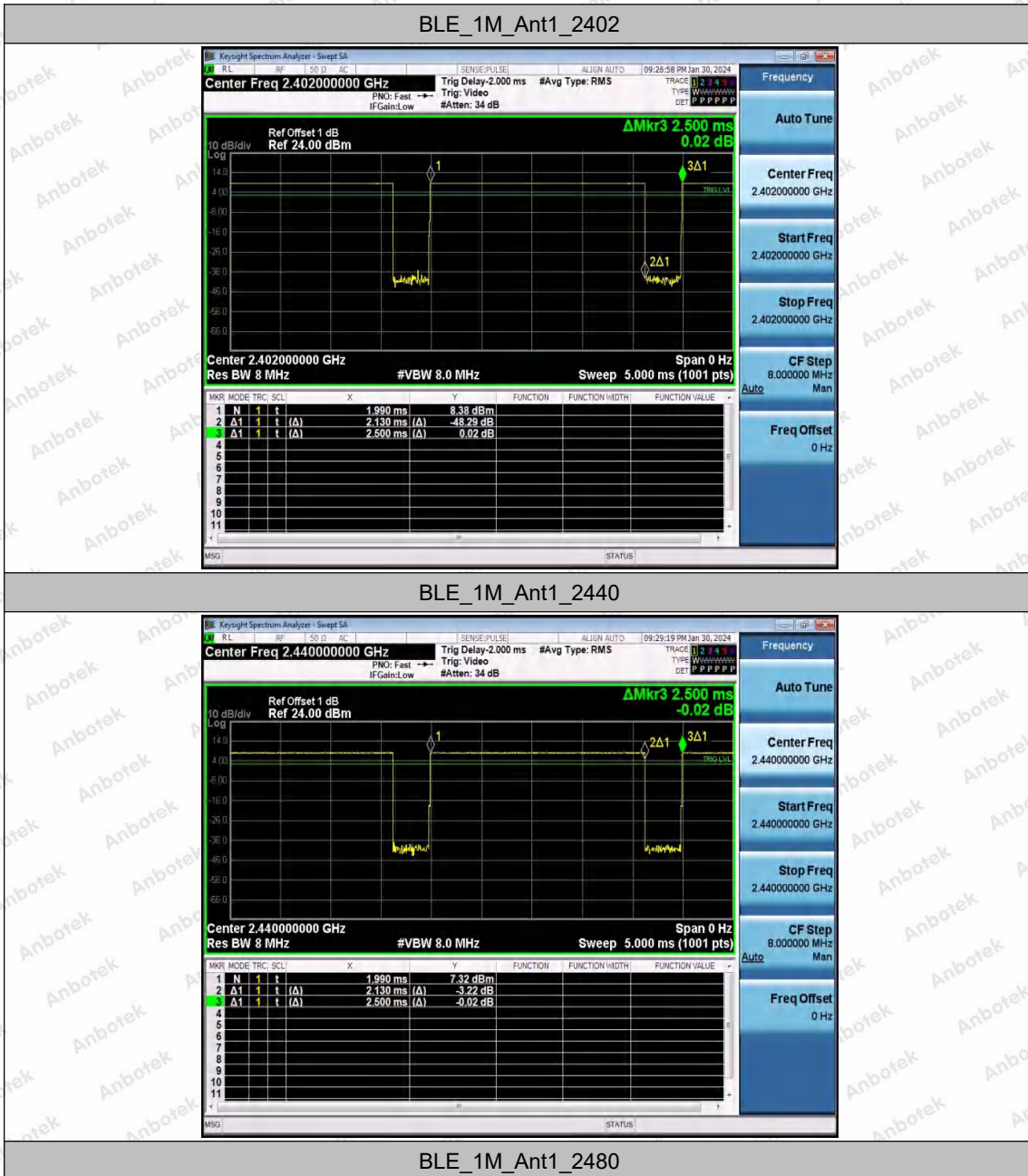
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Test Graphs



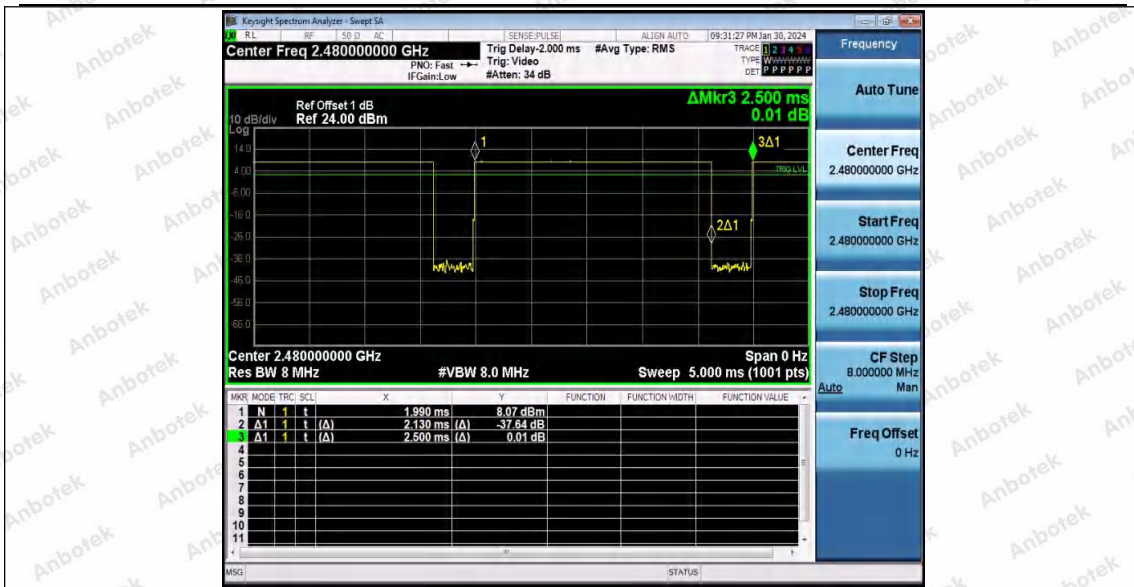
BLE_1M_Ant1_2480

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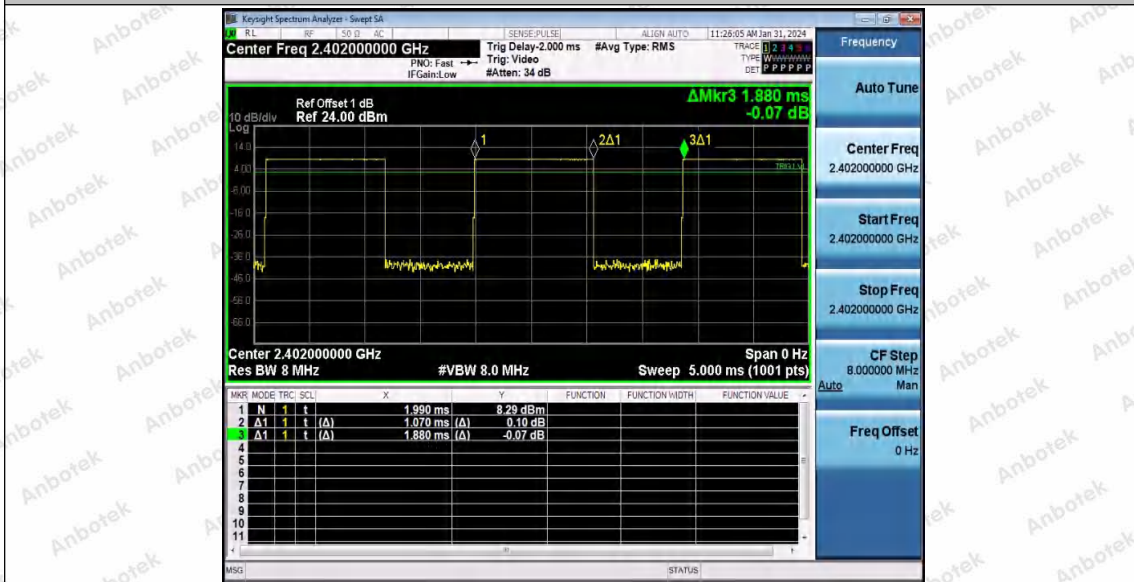
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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BLE_2M_Ant1_2402



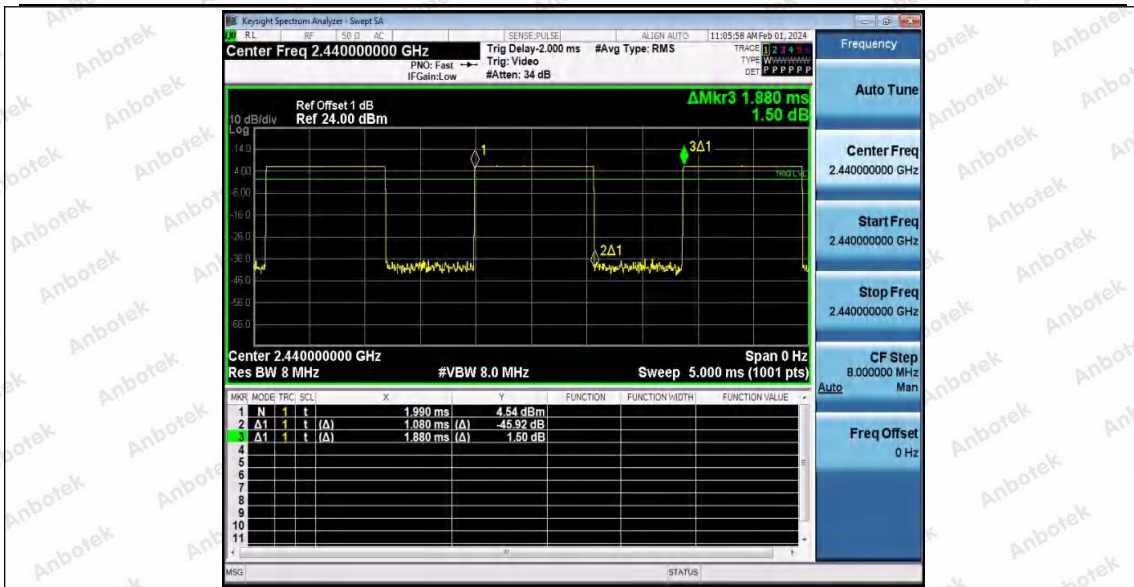
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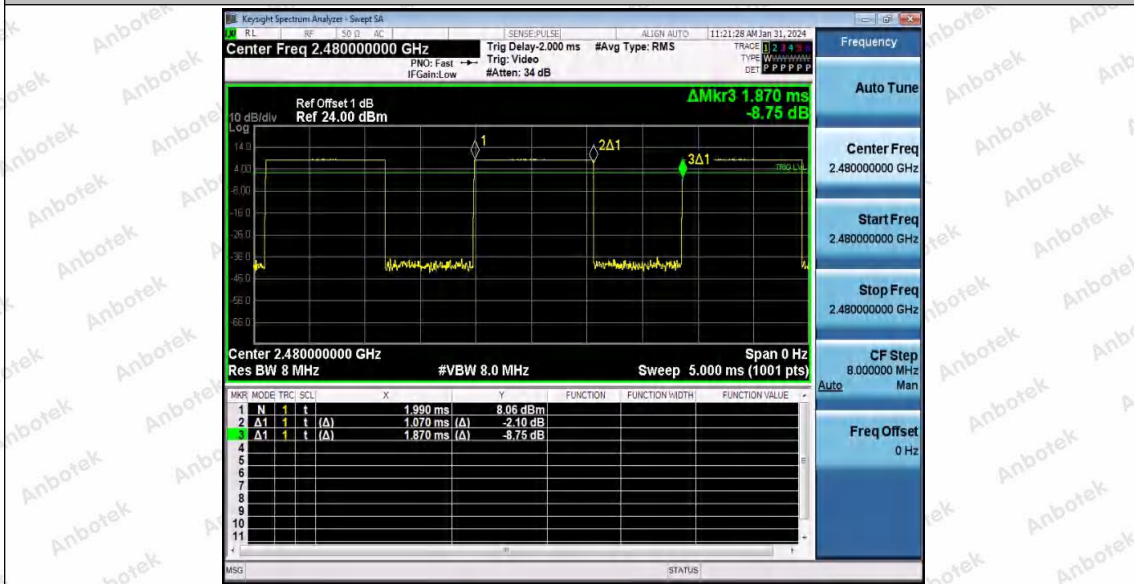
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BLE_2M_Ant1_2480



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