

Appendix Test Data

Report No.:	18220WC40048902	Test Sample No.:	1-2-2
Start Test Date:	2024.3.29	Finish Test Date:	2024.4.29
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	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	2401.700	2402.208	0.5	PASS
		2440	0.512	2439.696	2440.208	0.5	PASS
		2480	0.532	2479.688	2480.220	0.5	PASS
BLE_2M	Ant1	2402	0.860	2401.444	2402.304	0.5	PASS
		2440	0.836	2439.436	2440.272	0.5	PASS
		2480	0.836	2479.448	2480.284	0.5	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 B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0564	2401.5062	2402.5626	---	---
		2440	1.0910	2439.4623	2440.5533	---	---
		2480	1.1455	2479.4210	2480.5665	---	---
BLE_2M	Ant1	2402	2.0557	2401.0200	2403.0757	---	---
		2440	2.0360	2439.0128	2441.0488	---	---
		2480	2.0872	2478.9977	2481.0849	---	---



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-Right

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.02	≤30	PASS
		2440	2.03	≤30	PASS
		2480	1.79	≤30	PASS
BLE_2M	Ant1	2402	2.03	≤30	PASS
		2440	2.03	≤30	PASS
		2480	1.77	≤30	PASS

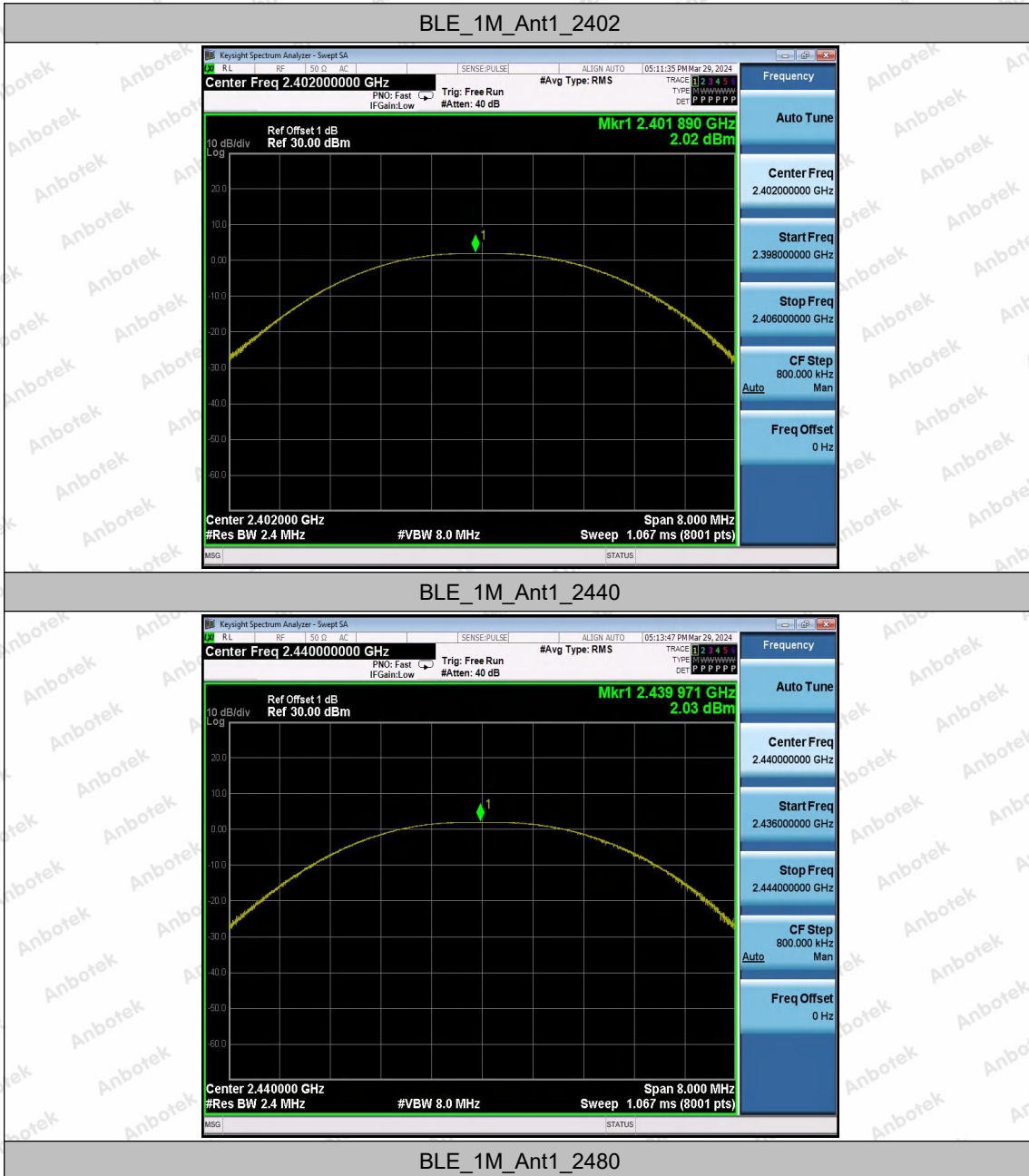
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Test Graphs Peak-Right

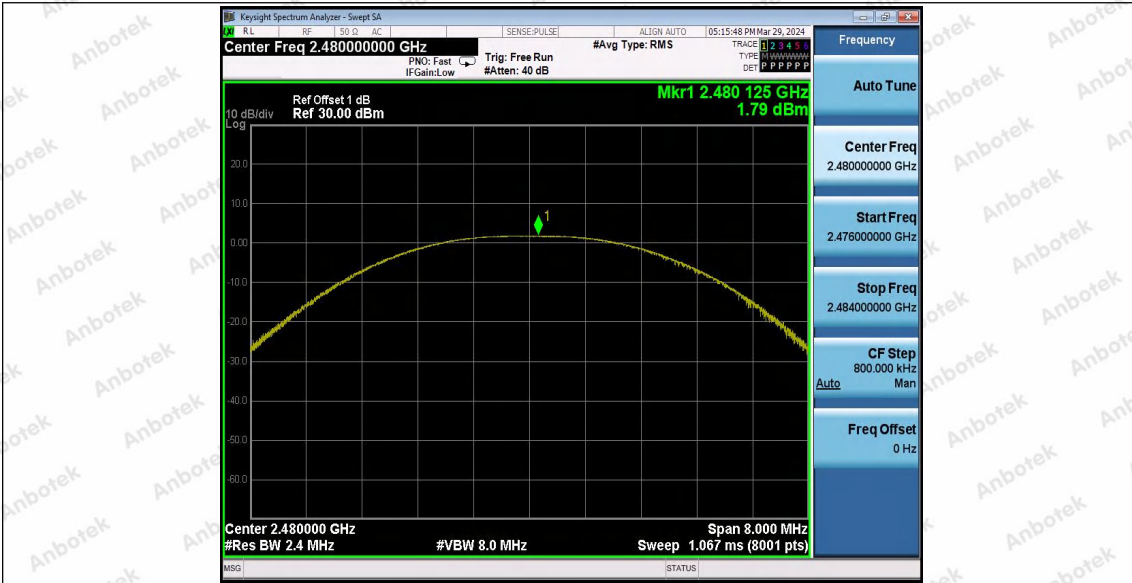


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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Test Result Peak-Left

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.05	≤30	PASS
BLE_1M	Ant1	2440	2.31	≤30	PASS
BLE_1M	Ant1	2480	1.67	≤30	PASS
BLE_2M	Ant1	2402	3.03	≤30	PASS
BLE_2M	Ant1	2440	2.31	≤30	PASS
BLE_2M	Ant1	2480	1.73	≤30	PASS

Test Graphs Peak-Left

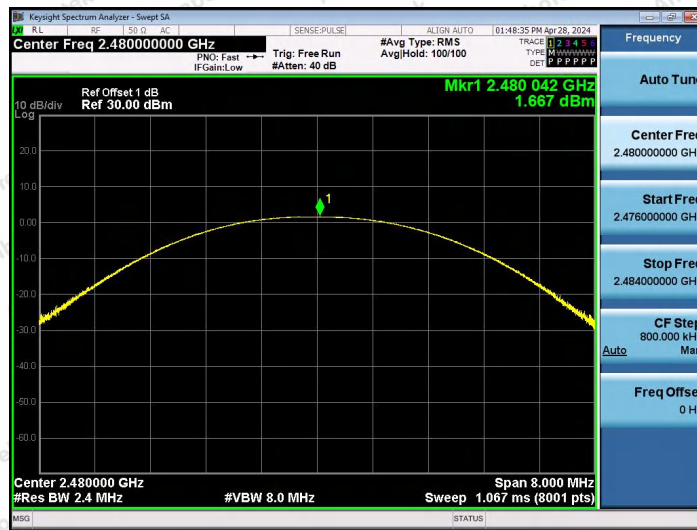


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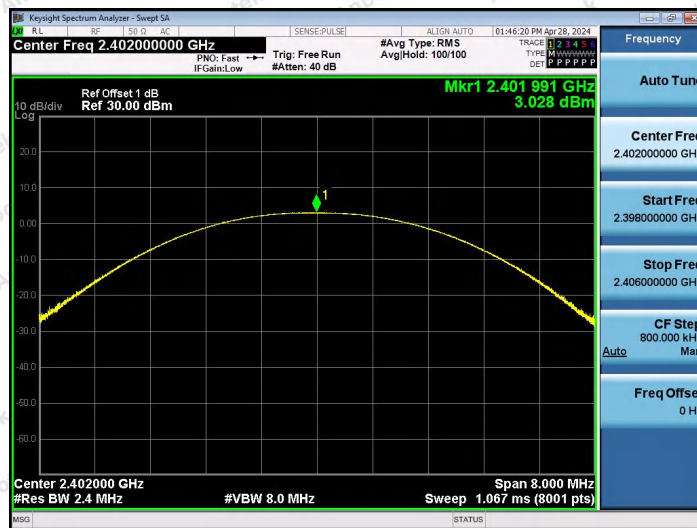
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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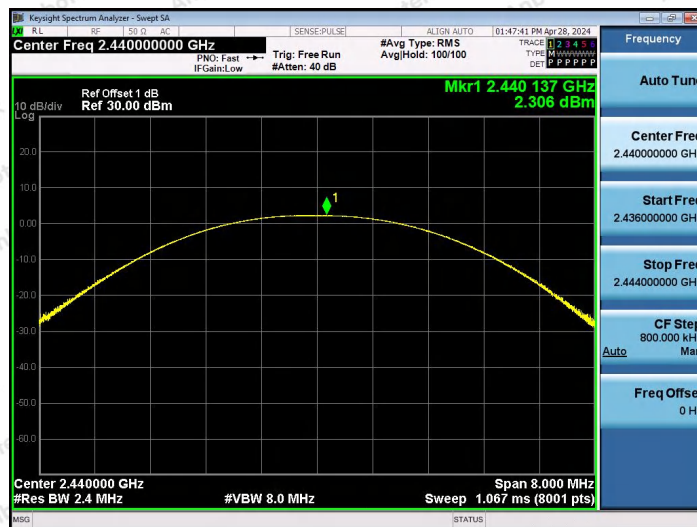




BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



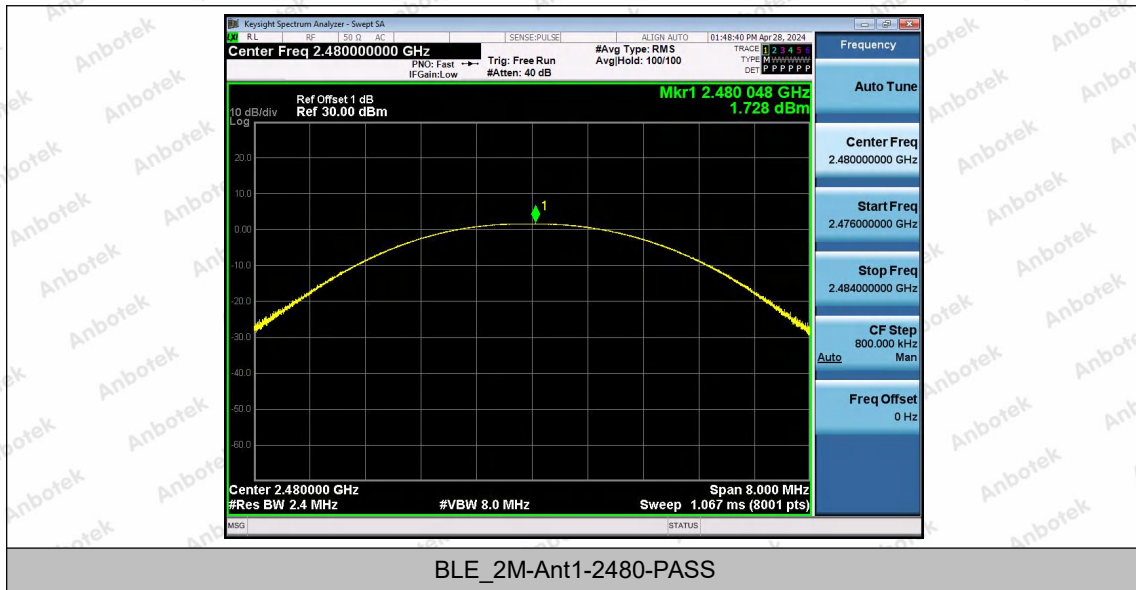
BLE_2M-Ant1-2440-PASS

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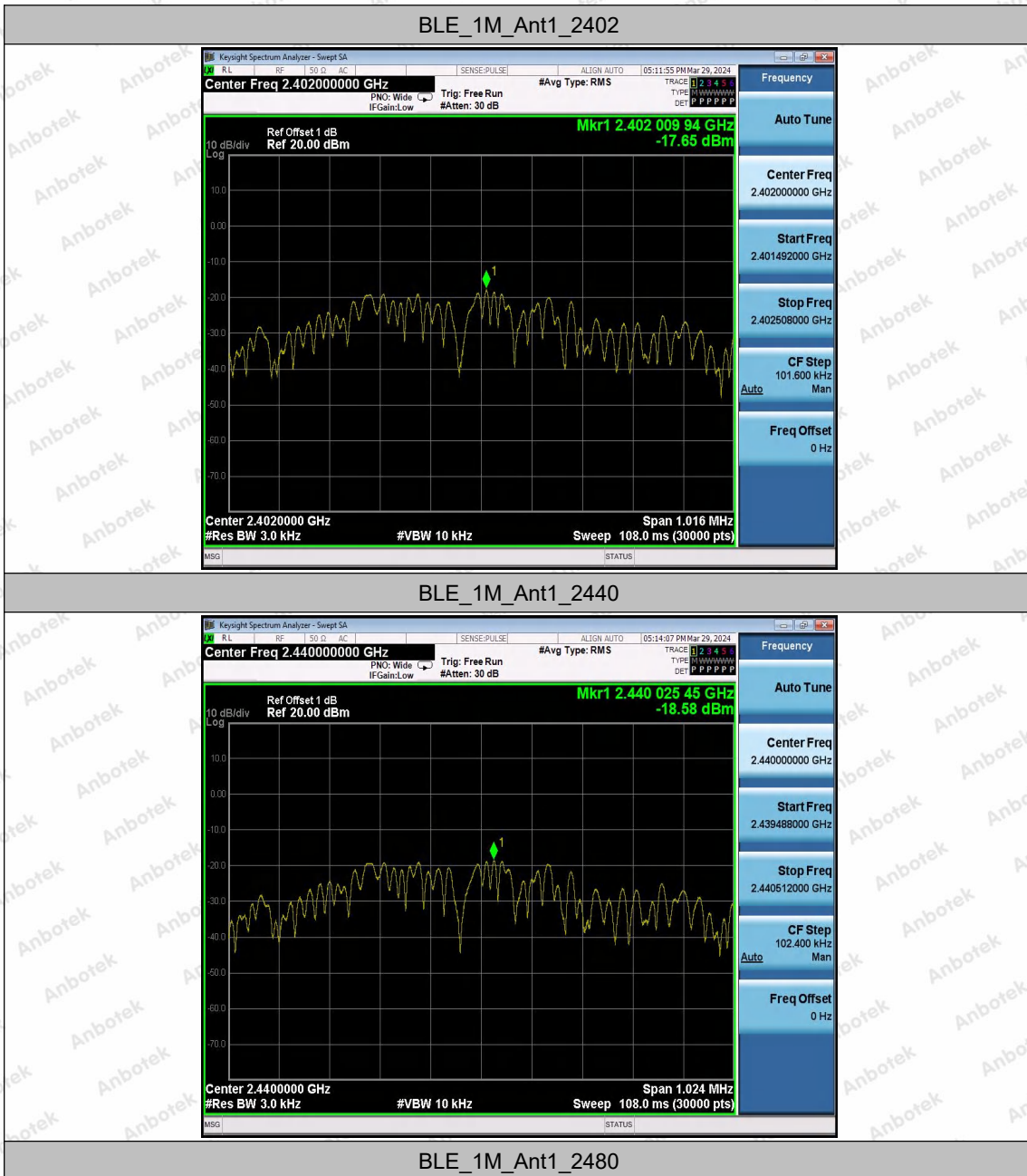
Appendix D: Maximum Power Spectral Density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.65	≤8.00	PASS
		2440	-18.58	≤8.00	PASS
		2480	-18.76	≤8.00	PASS
BLE_2M	Ant1	2402	-20.48	≤8.00	PASS
		2440	-20.4	≤8.00	PASS
		2480	-20.52	≤8.00	PASS



Test Graphs

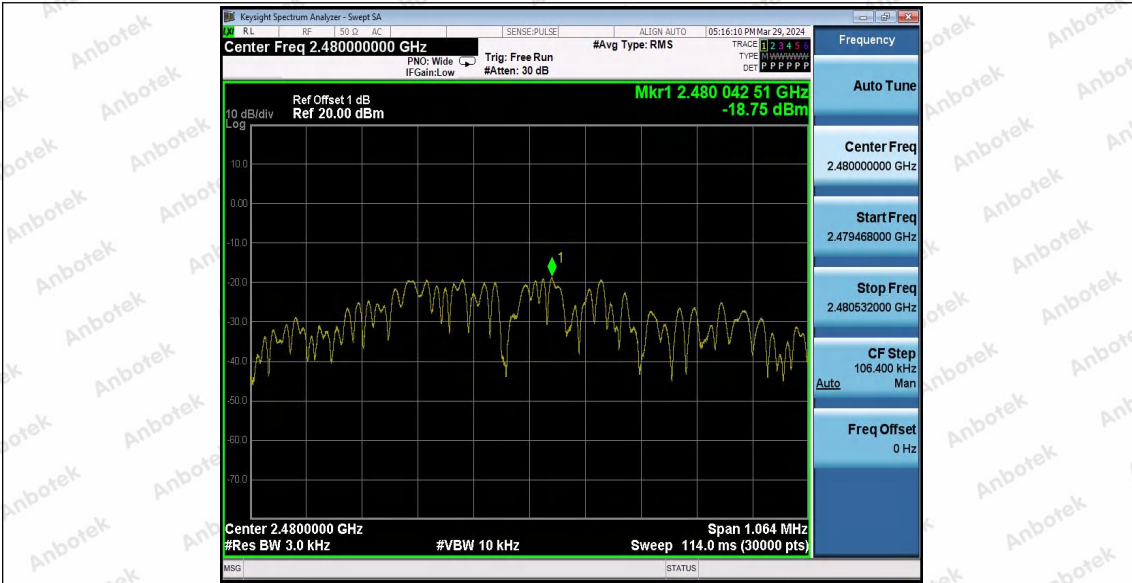


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.70	-50.15	≤-18.3	PASS
		High	2480	1.54	-51.67	≤-18.46	PASS
BLE_2M	Ant1	Low	2402	1.35	-31.02	≤-18.65	PASS
		High	2480	1.10	-48.32	≤-18.9	PASS

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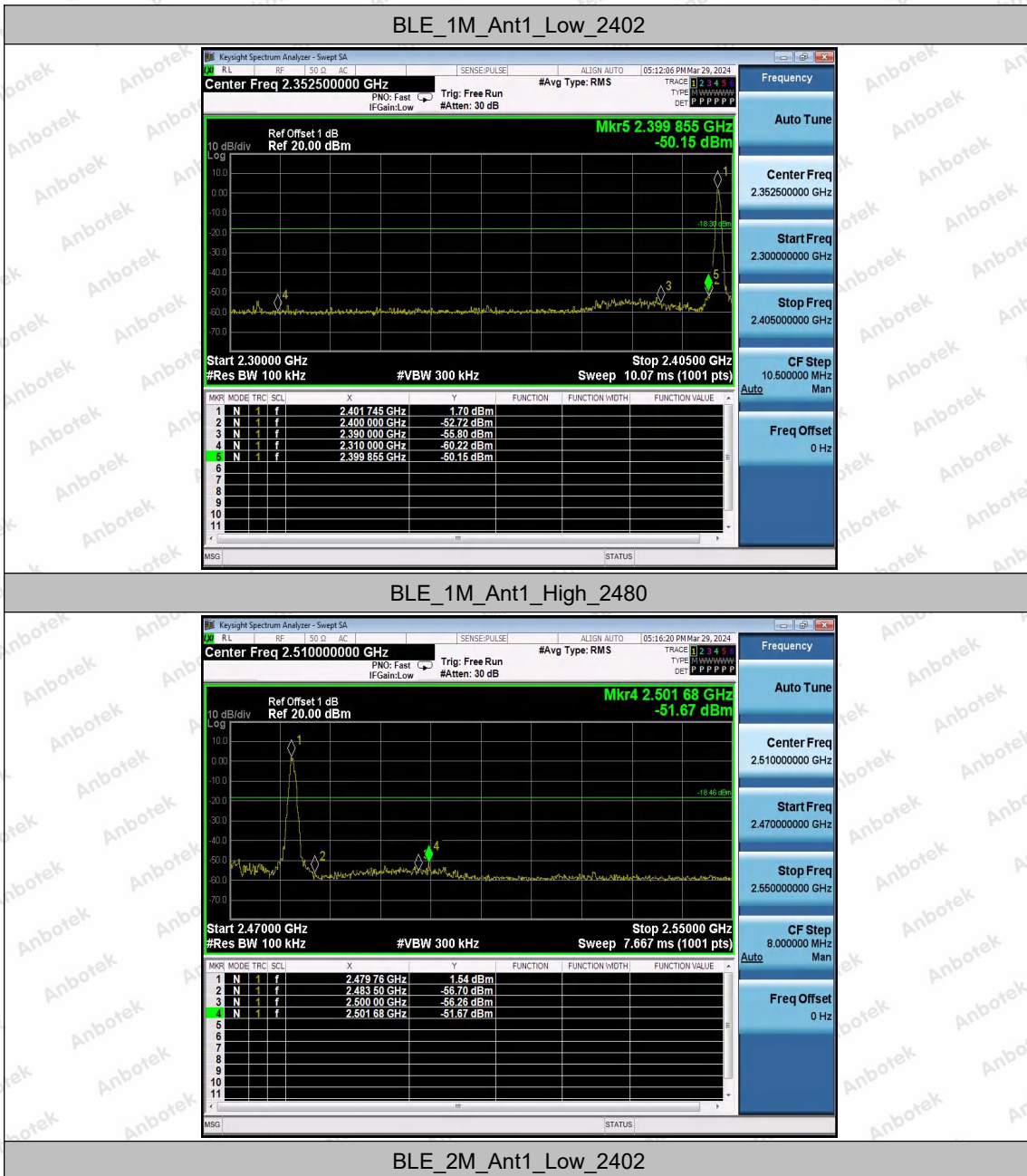
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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Test Graphs

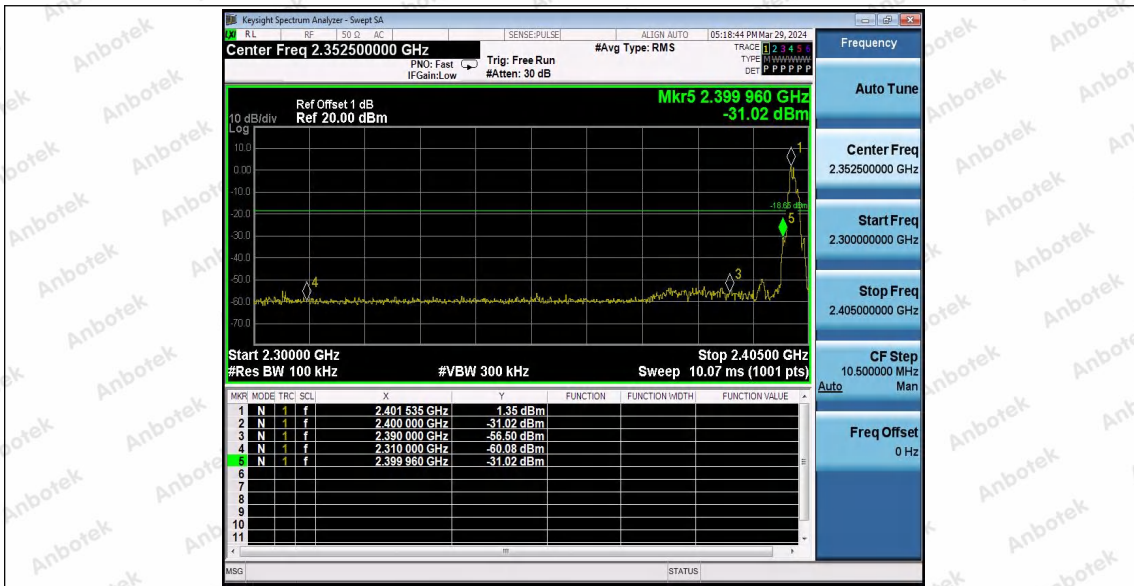


Shenzhen Anbotek Compliance Laboratory Limited

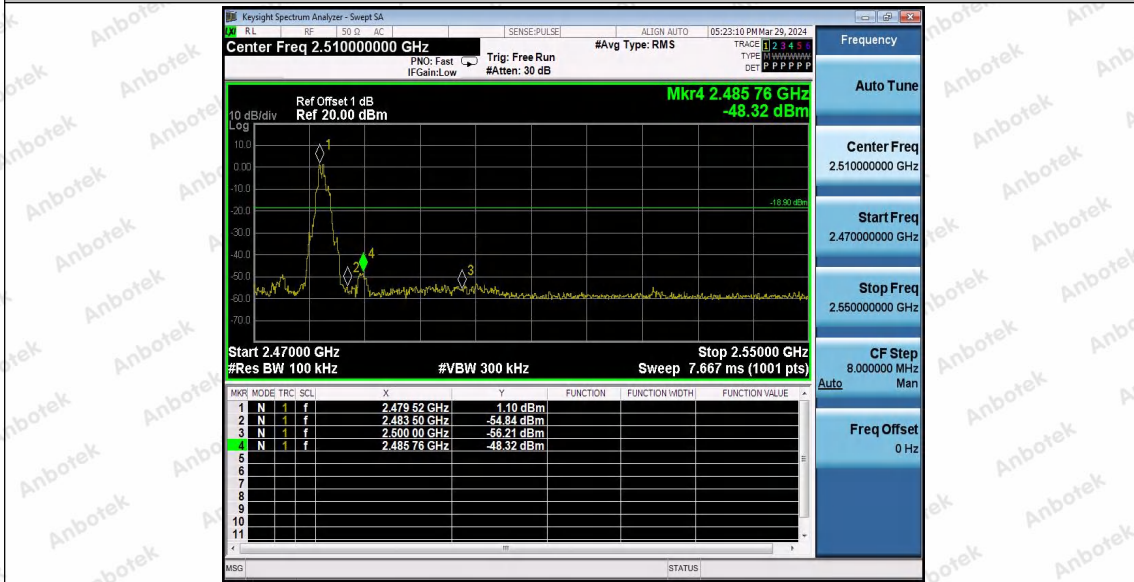
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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BLE_2M_Ant1_High_2480



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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	1.81	1.81	---	PASS
			30~1000	1.81	-67.58	≤-18.19	PASS
			1000~26500	1.81	-48.83	≤-18.19	PASS
		2440	Reference	1.81	1.81	---	PASS
			30~1000	1.81	-67.34	≤-18.19	PASS
			1000~26500	1.81	-49.45	≤-18.19	PASS
		2480	Reference	1.56	1.56	---	PASS
			30~1000	1.56	-67.98	≤-18.44	PASS
			1000~26500	1.56	-45.24	≤-18.44	PASS
BLE_2M	Ant1	2402	Reference	1.10	1.10	---	PASS
			30~1000	1.10	-67.31	≤-18.9	PASS
			1000~26500	1.10	-50.71	≤-18.9	PASS
		2440	Reference	1.12	1.12	---	PASS
			30~1000	1.12	-67.91	≤-18.88	PASS
			1000~26500	1.12	-47.21	≤-18.88	PASS
		2480	Reference	0.93	0.93	---	PASS
			30~1000	0.93	-68.14	≤-19.07	PASS
			1000~26500	0.93	-44.87	≤-19.07	PASS



Test Graphs

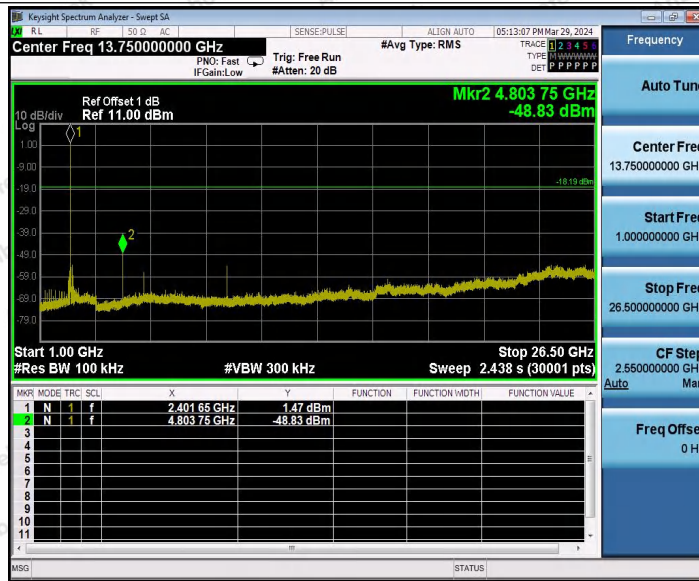


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BLE_1M_Ant1_2440_0~Reference



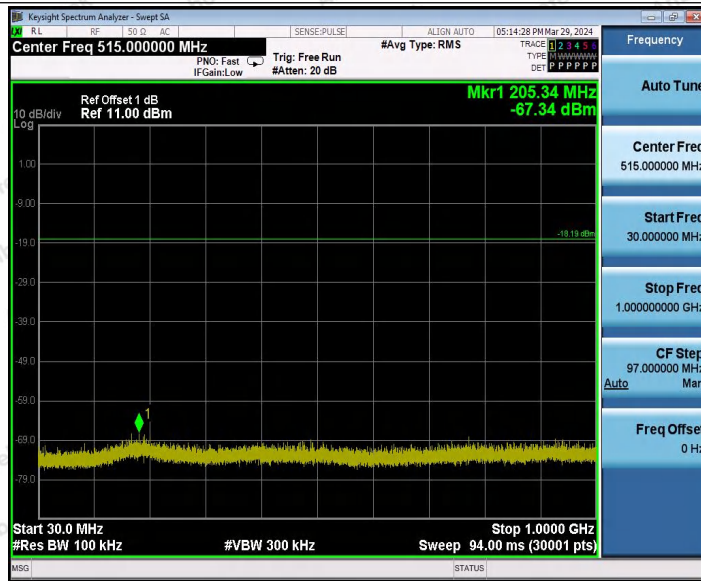
BLE_1M_Ant1_2440_30~1000

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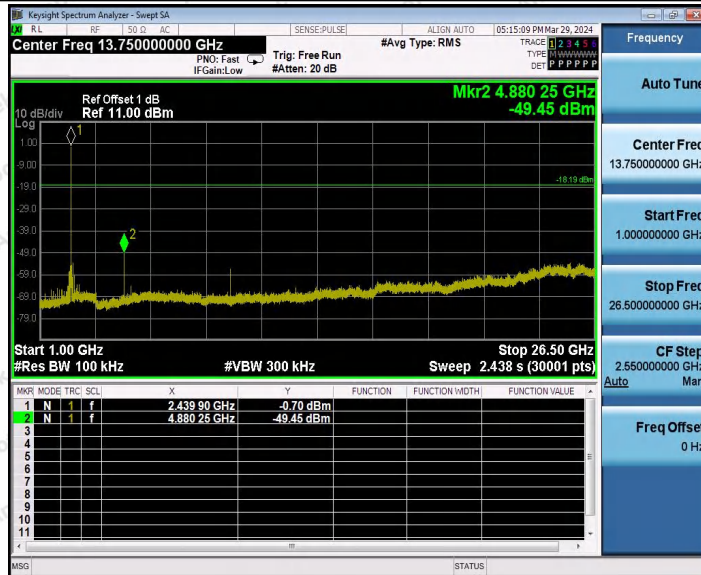
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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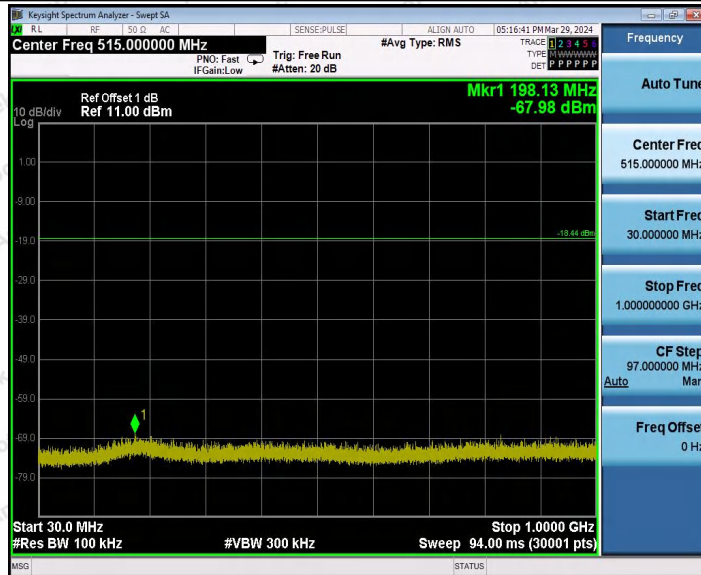
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BLE_1M_Ant1_2480_30~1000



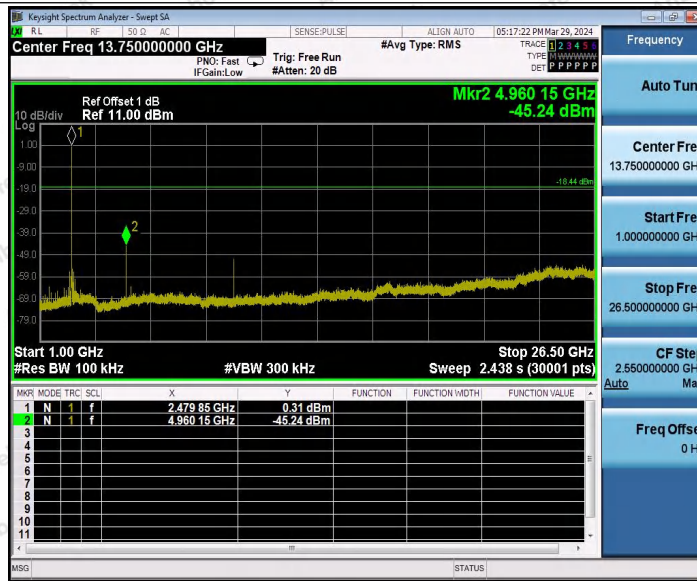
BLE_1M_Ant1_2480_1000~26500

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BLE_2M_Ant1_2402_0~Reference



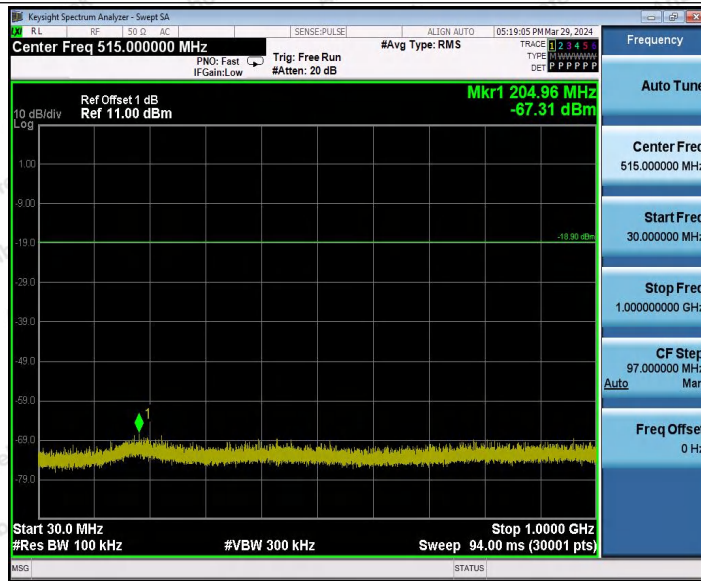
BLE_2M_Ant1_2402_30~1000

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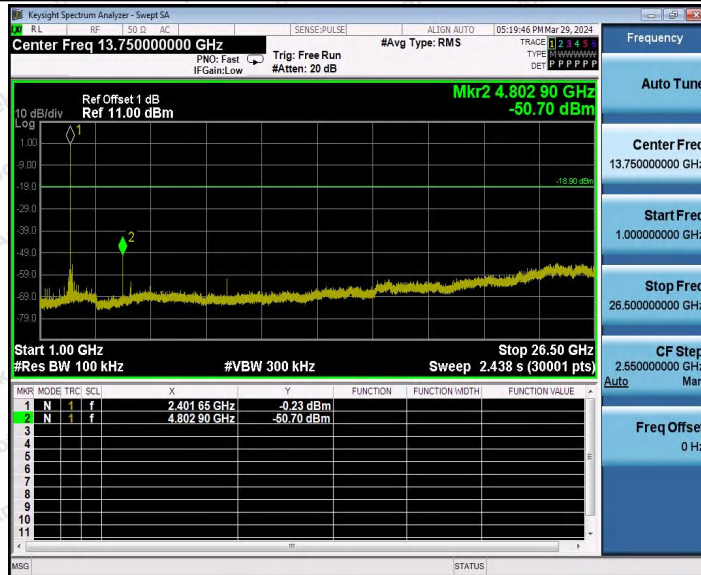
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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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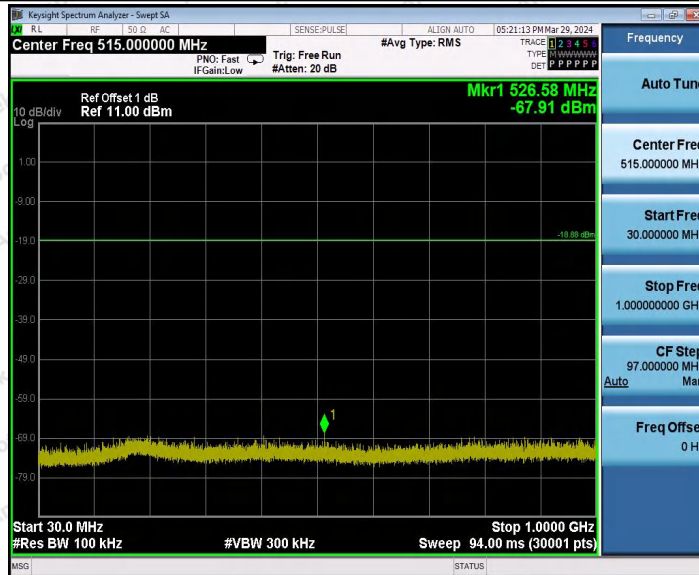
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BLE_2M_Ant1_2440_30~1000



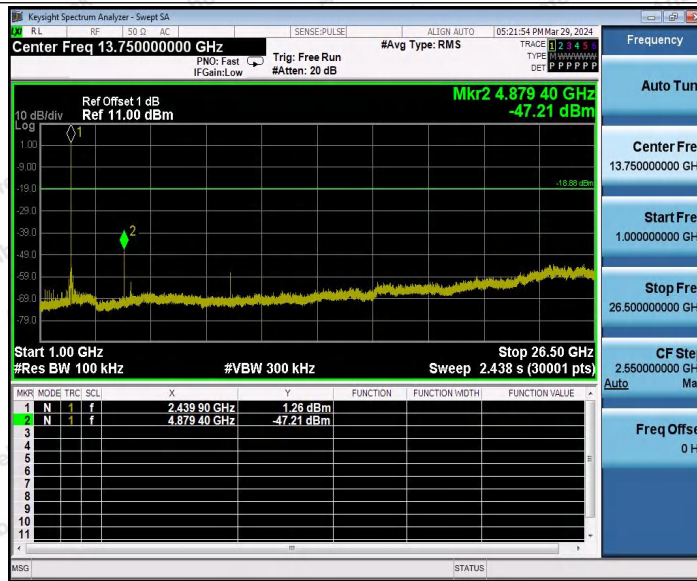
BLE_2M_Ant1_2440_1000~26500

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BLE_2M_Ant1_2480_0~Reference



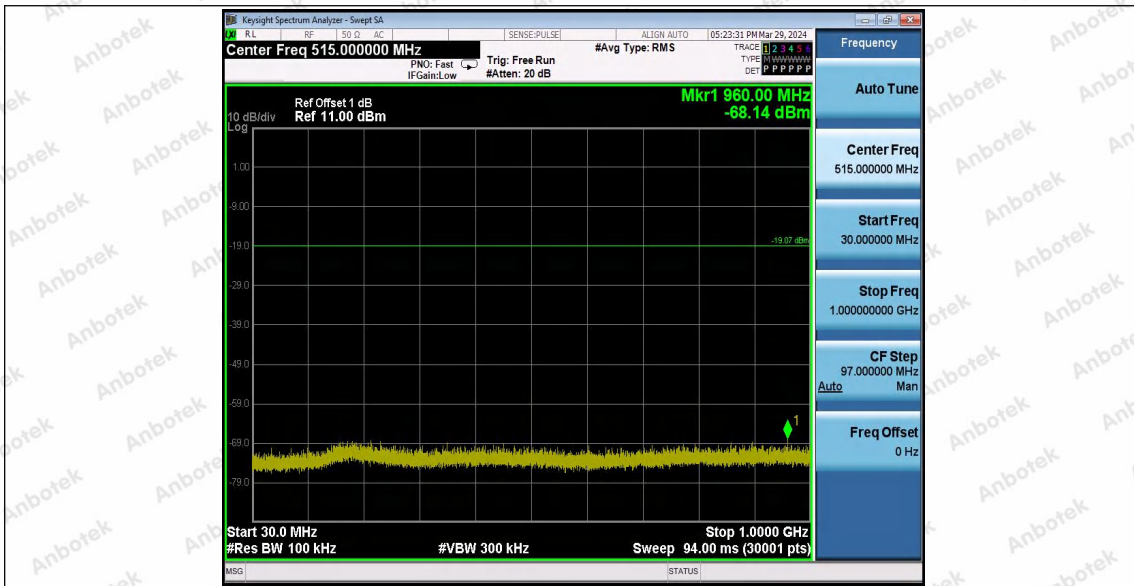
BLE_2M_Ant1_2480_30~1000

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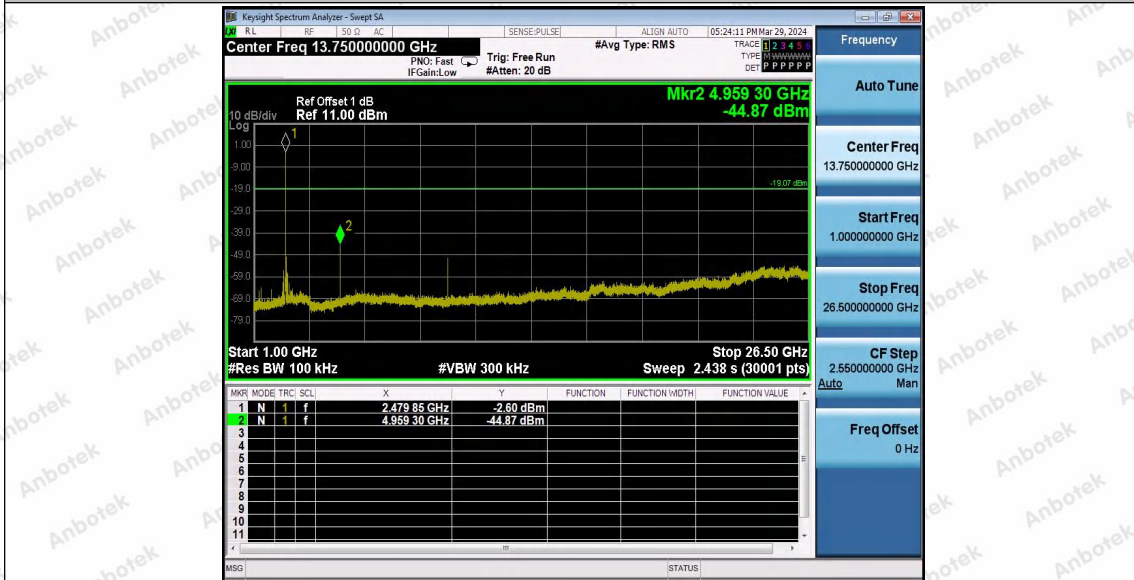
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BLE_2M_Ant1_2480_1000~26500



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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.09	0.63	14.29	8.45
		2440	0.09	0.63	14.29	8.45
		2480	0.09	0.63	14.29	8.45
BLE_2M	Ant1	2402	0.06	0.63	9.52	10.21
		2440	0.06	0.63	9.52	10.21
		2480	0.06	0.63	9.52	10.21

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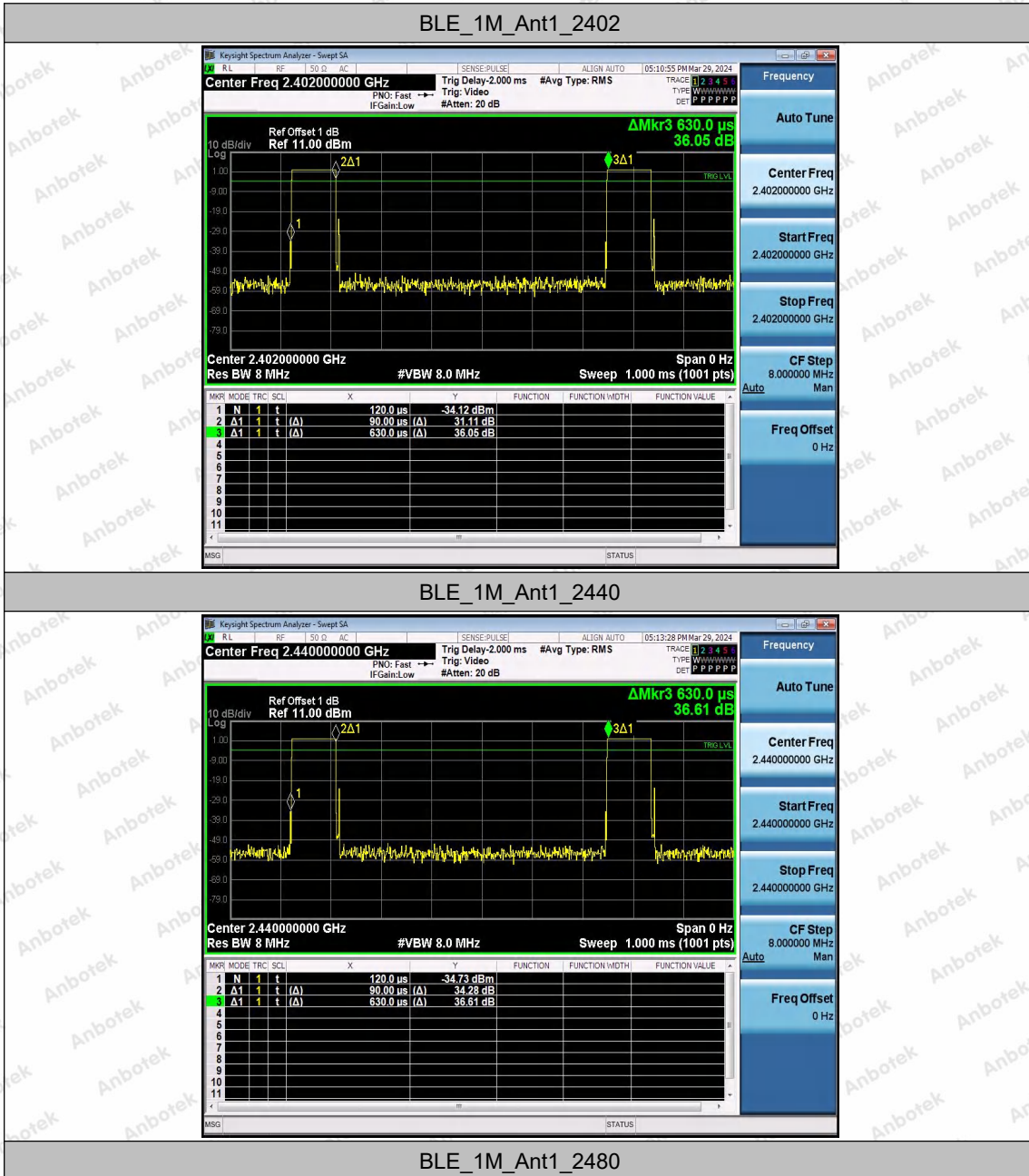
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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Test Graphs

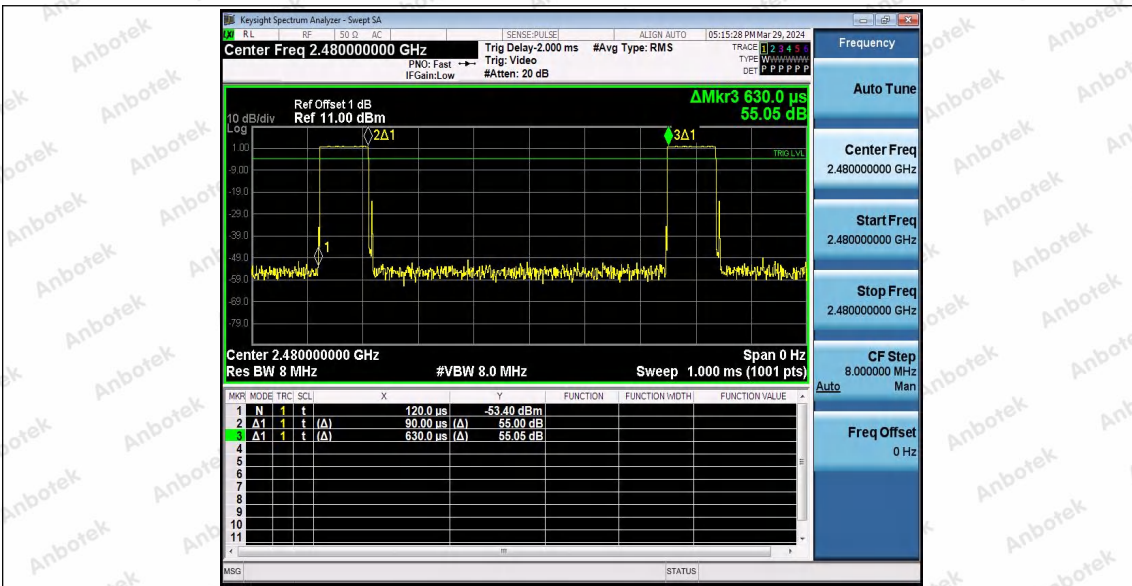


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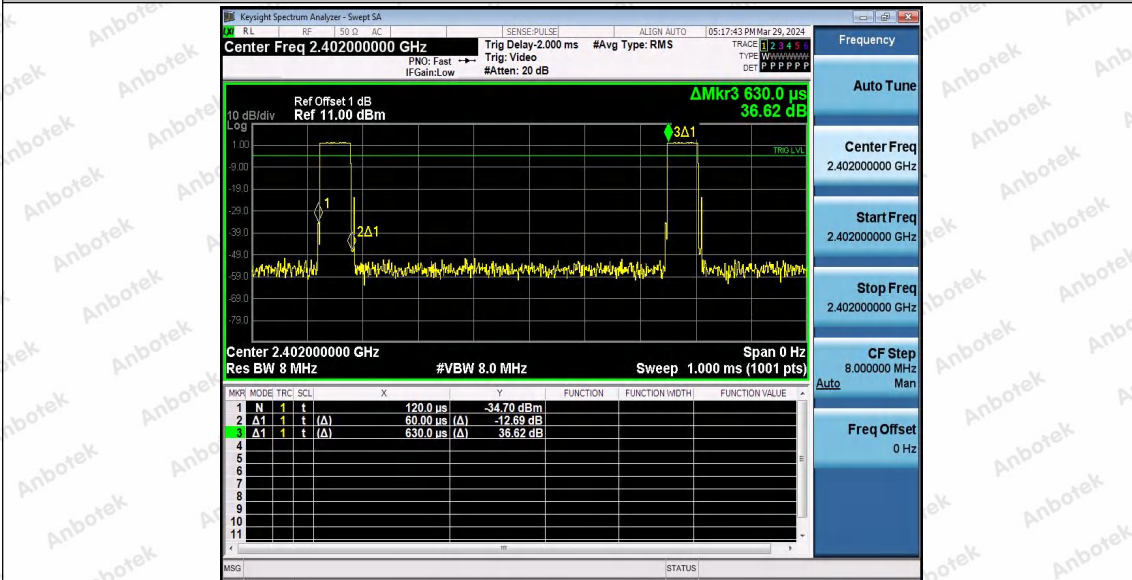
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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BLE_2M_Ant1_2402



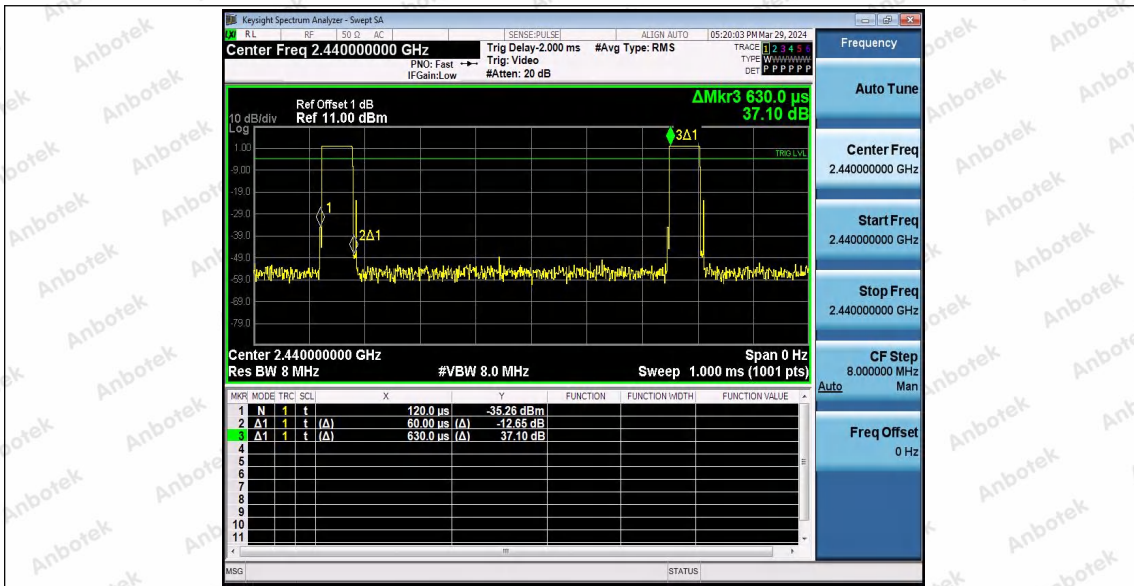
BLE_2M_Ant1_2440

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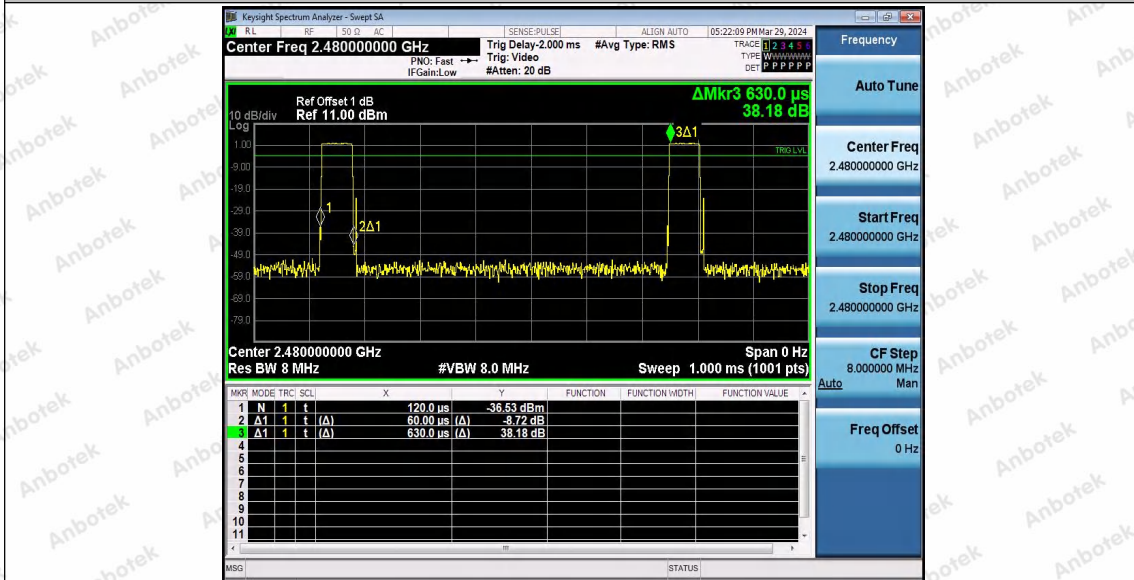
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BLE_2M_Ant1_2480



---END---

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