

Appendix Test Data

Report No.:	182512C400261102	Test Sample No.:	1-2-2
Start Test Date:	2024.07.01	Finish Test Date:	2024.07.02
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

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.688	2401.644	2402.332	0.5	PASS
BLE_1M	Ant1	2440	0.720	2439.632	2440.352	0.5	PASS
BLE_1M	Ant1	2480	0.712	2479.640	2480.352	0.5	PASS
BLE_2M	Ant1	2402	1.360	2401.308	2402.668	0.5	PASS
BLE_2M	Ant1	2440	1.232	2439.348	2440.580	0.5	PASS
BLE_2M	Ant1	2480	1.240	2479.352	2480.592	0.5	PASS

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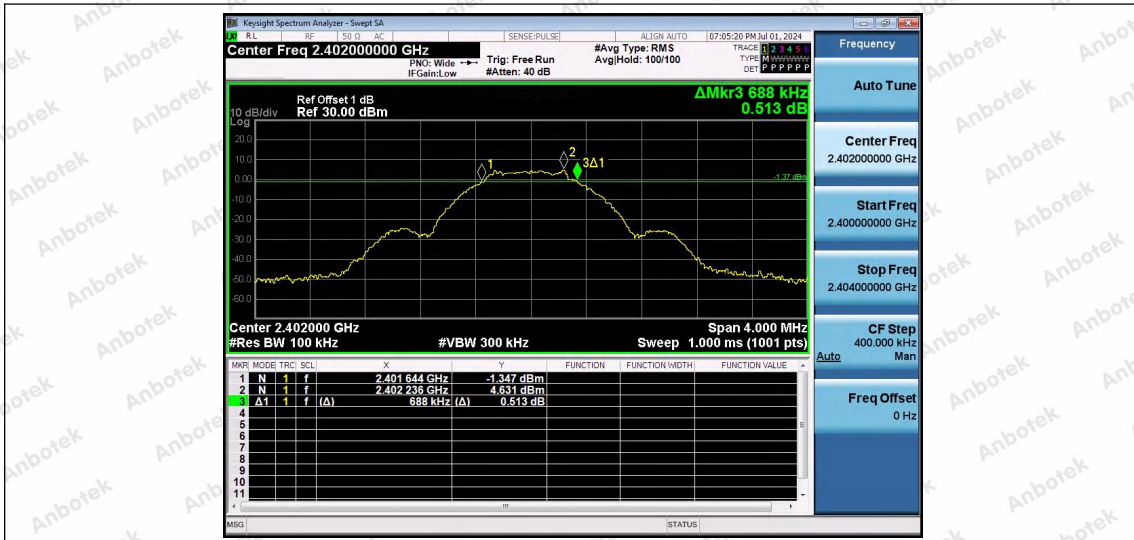
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Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



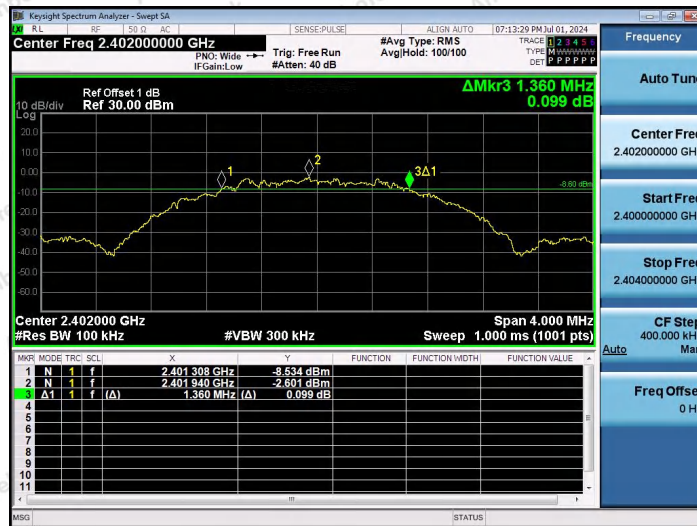
BLE_1M-Ant1-2480-PASS

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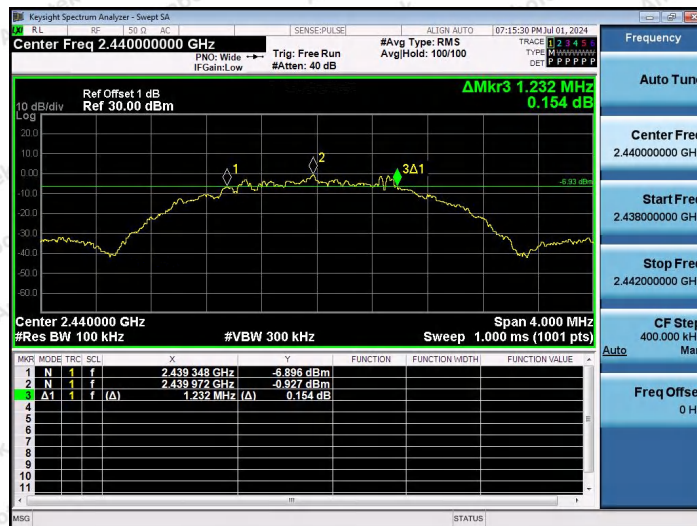
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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0318	2401.4800	2402.5118	---	---
BLE_1M	Ant1	2440	1.0262	2439.4807	2440.5069	---	---
BLE_1M	Ant1	2480	1.0418	2479.4804	2480.5222	---	---
BLE_2M	Ant1	2402	2.0801	2400.9757	2403.0558	---	---
BLE_2M	Ant1	2440	2.0843	2438.9678	2441.0521	---	---
BLE_2M	Ant1	2480	2.0838	2478.9693	2481.0531	---	---

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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



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	0.33	≤30	PASS
BLE_1M	Ant1	2440	0.36	≤30	PASS
BLE_1M	Ant1	2480	0.89	≤30	PASS
BLE_2M	Ant1	2402	0.36	≤30	PASS
BLE_2M	Ant1	2440	0.42	≤30	PASS
BLE_2M	Ant1	2480	0.96	≤30	PASS

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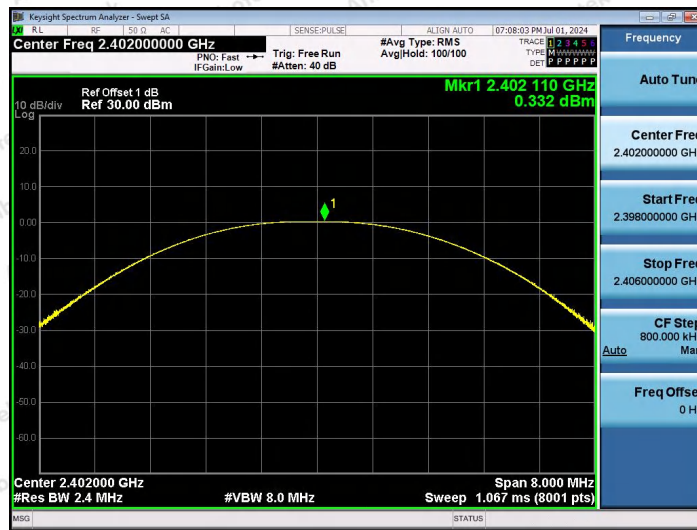
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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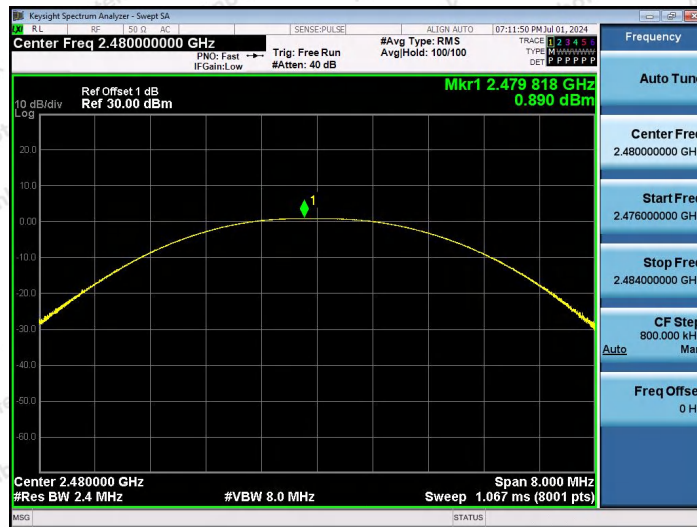
Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



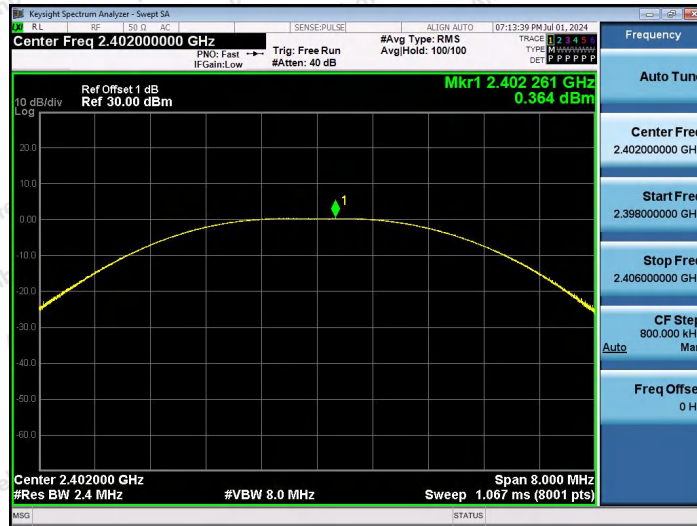
BLE_1M-Ant1-2480-PASS

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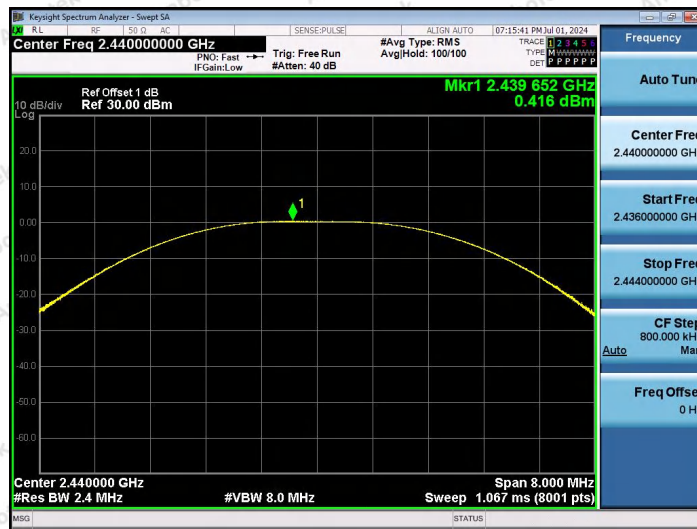
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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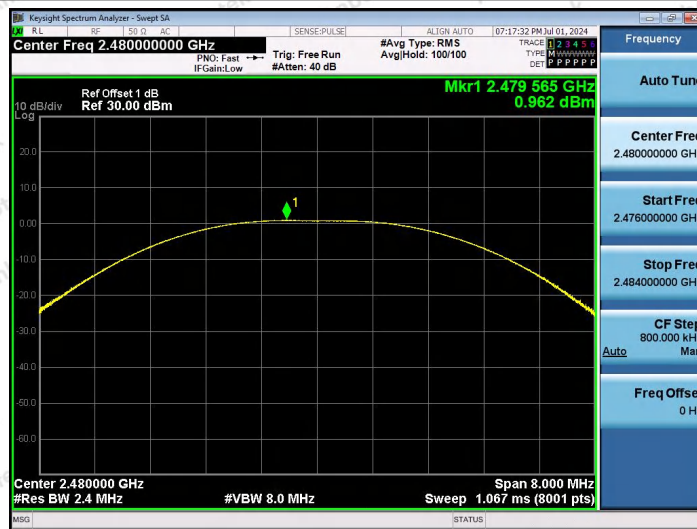




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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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	-15.91	≤8.00	PASS
BLE_1M	Ant1	2440	-15.89	≤8.00	PASS
BLE_1M	Ant1	2480	-15.48	≤8.00	PASS
BLE_2M	Ant1	2402	-18.41	≤8.00	PASS
BLE_2M	Ant1	2440	-18.34	≤8.00	PASS
BLE_2M	Ant1	2480	-17.79	≤8.00	PASS



Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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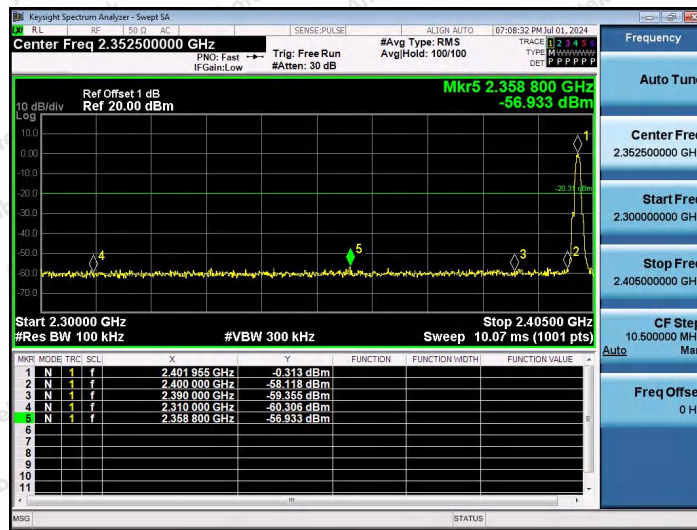
Appendix E: Band edge measurements

Test Result

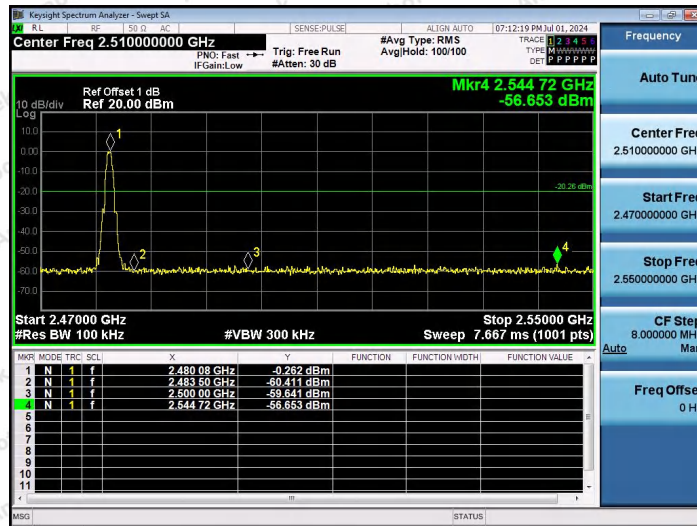
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.31	-56.93	≤-20.31	PASS
BLE_1M	Ant1	High	2480	-0.26	-56.65	≤-20.26	PASS
BLE_2M	Ant1	Low	2402	-2.51	-33.89	≤-22.51	PASS
BLE_2M	Ant1	High	2480	-0.24	-56.2	≤-20.24	PASS



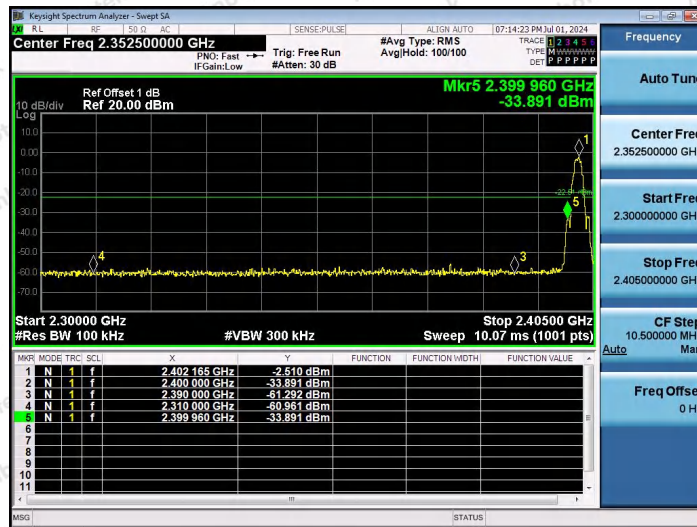
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



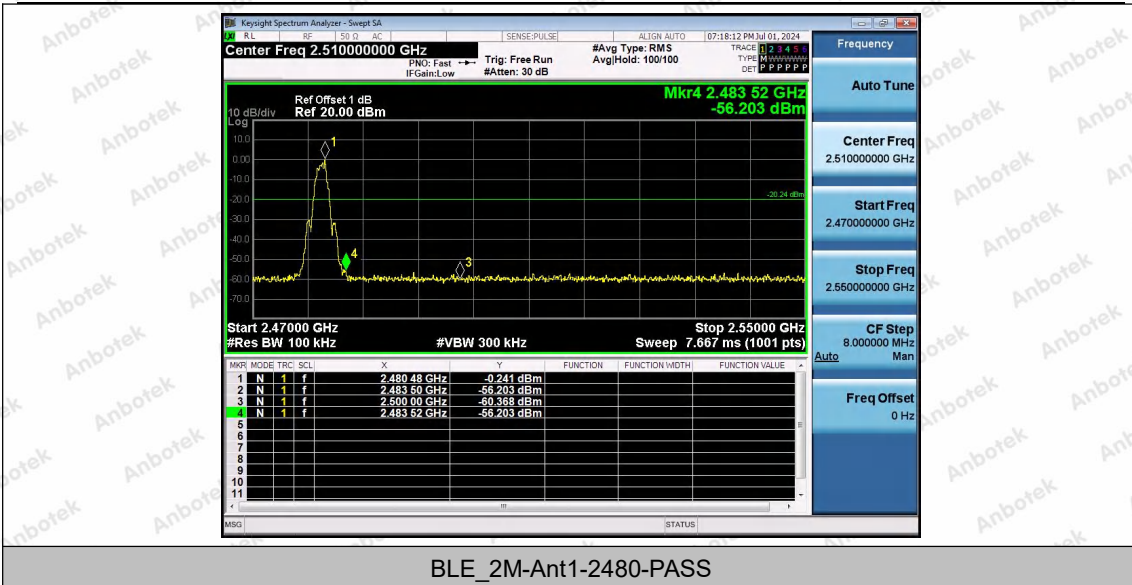
BLE_2M-Ant1-2402-PASS

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BLE_2M-Ant1-2480-PASS

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Appendix F: Conducted Spurious Emission

Test Result

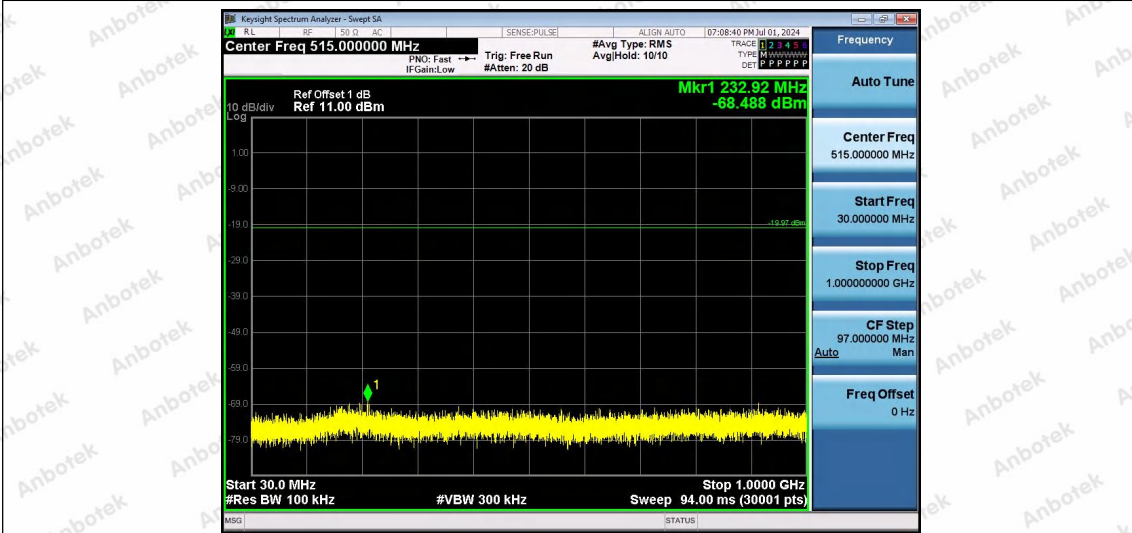
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.03	0.03	---	PASS
BLE_1M	Ant1	2402	30~1000	0.03	-68.49	≤-19.97	PASS
BLE_1M	Ant1	2402	1000~26500	0.03	-53.12	≤-19.97	PASS
BLE_1M	Ant1	2440	0~Reference	-1.49	-1.49	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.49	-69.12	≤-21.49	PASS
BLE_1M	Ant1	2440	1000~26500	-1.49	-53.51	≤-21.49	PASS
BLE_1M	Ant1	2480	0~Reference	-1.02	-1.02	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.02	-68.5	≤-21.02	PASS
BLE_1M	Ant1	2480	1000~26500	-1.02	-53.72	≤-21.02	PASS
BLE_2M	Ant1	2402	0~Reference	-3.88	-3.88	---	PASS
BLE_2M	Ant1	2402	30~1000	-3.88	-68.56	≤-23.88	PASS
BLE_2M	Ant1	2402	1000~26500	-3.88	-53.51	≤-23.88	PASS
BLE_2M	Ant1	2440	0~Reference	-1.84	-1.84	---	PASS
BLE_2M	Ant1	2440	30~1000	-1.84	-68.65	≤-21.84	PASS
BLE_2M	Ant1	2440	1000~26500	-1.84	-52.98	≤-21.84	PASS
BLE_2M	Ant1	2480	0~Reference	-3.22	-3.22	---	PASS
BLE_2M	Ant1	2480	30~1000	-3.22	-68.72	≤-23.22	PASS
BLE_2M	Ant1	2480	1000~26500	-3.22	-52.82	≤-23.22	PASS



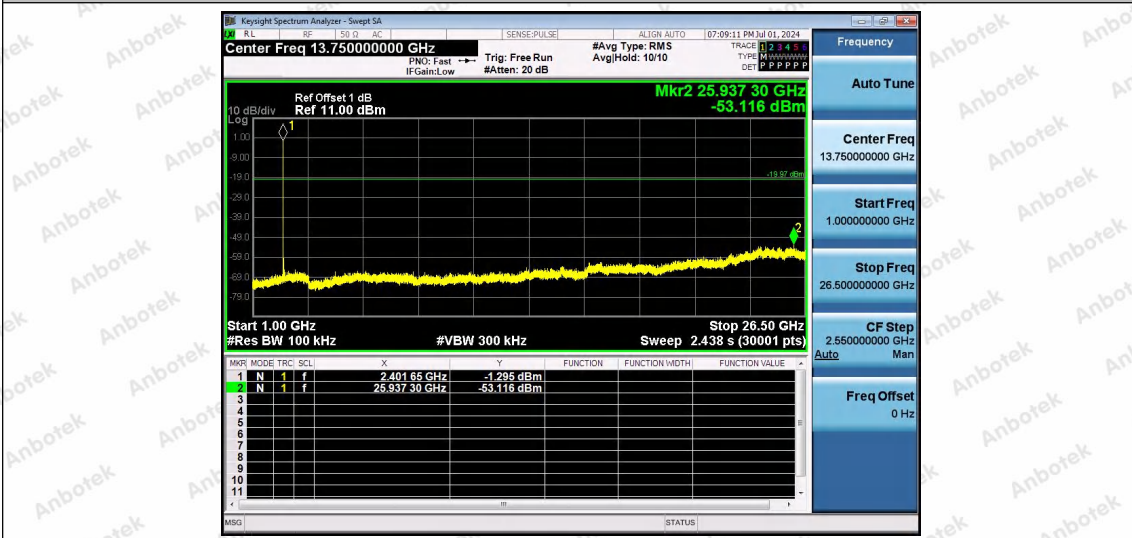
Test Graphs



BLE_1M-Ant1-2402-0~Reference-PASS



BLE_1M-Ant1-2402-30~1000-PASS



BLE_1M-Ant1-2402-1000~26500-PASS

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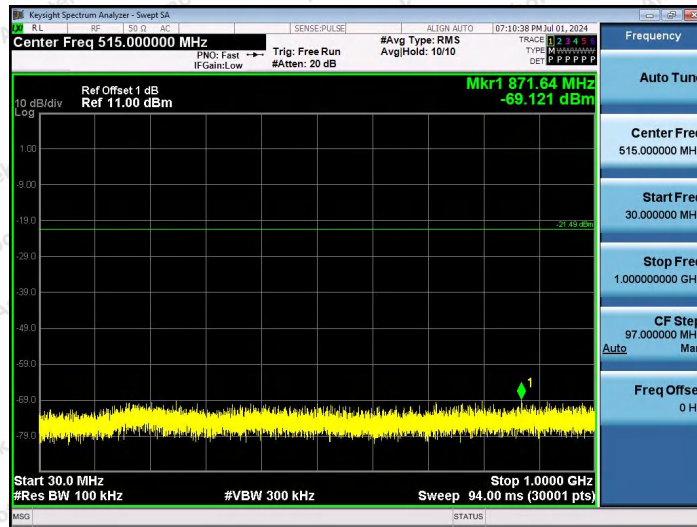
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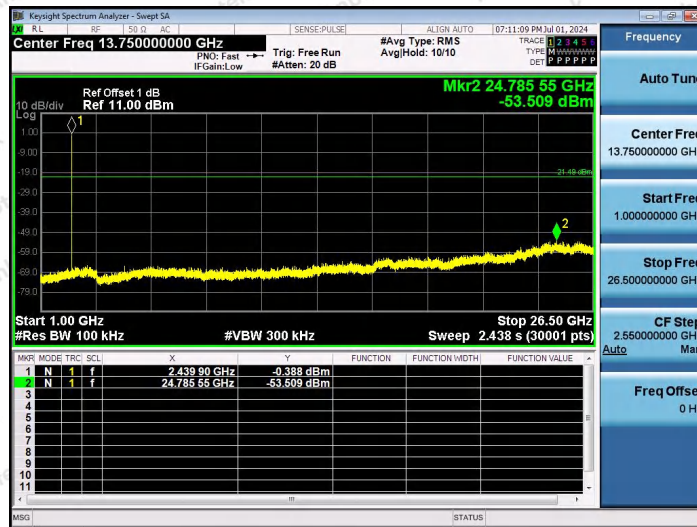




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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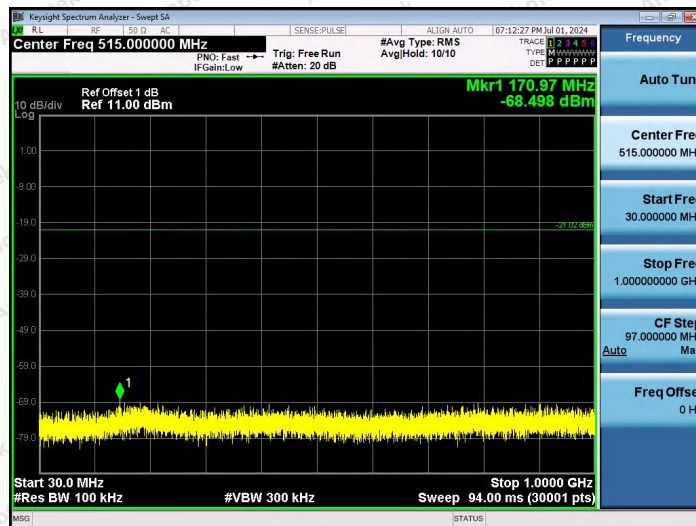
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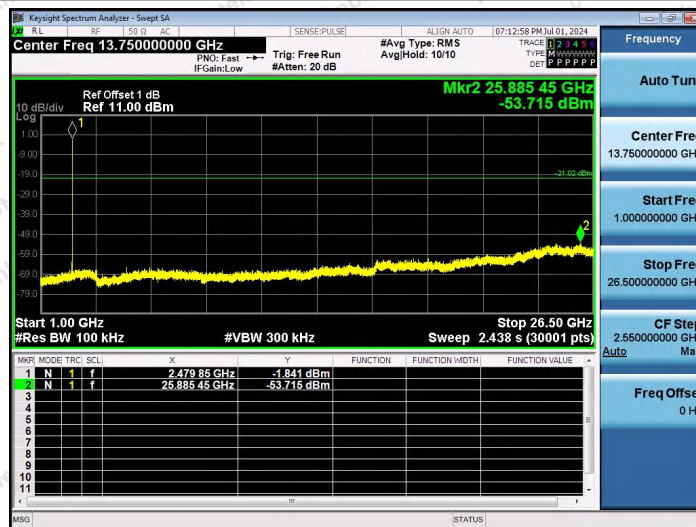




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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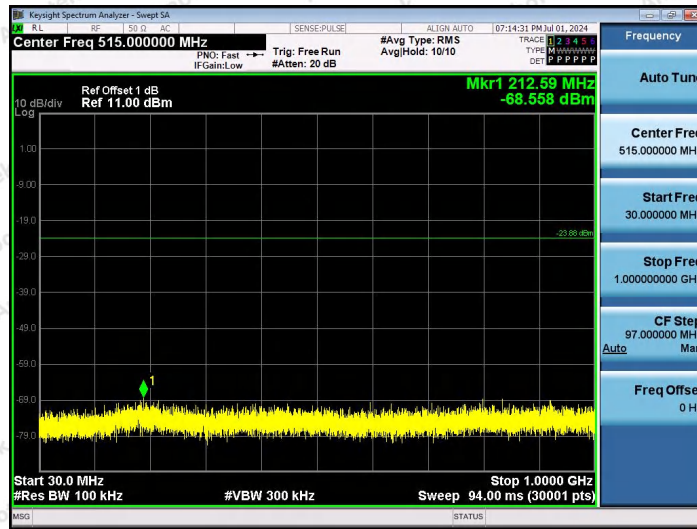
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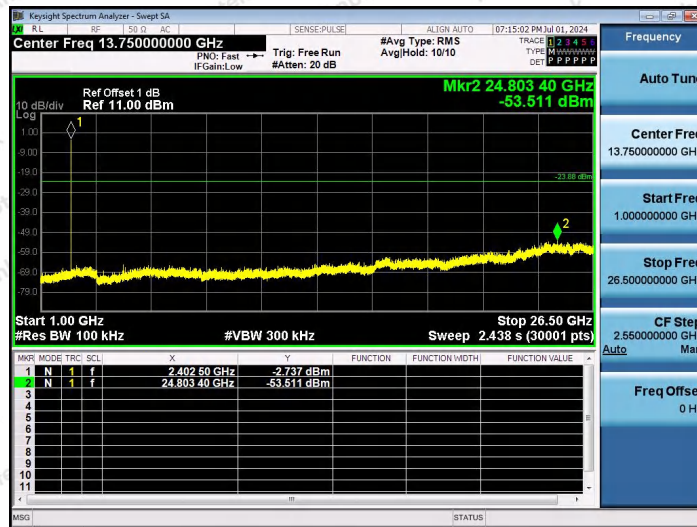




BLE_2M-Ant1-2402-0~Reference-PASS



BLE_2M-Ant1-2402-30~1000-PASS



BLE_2M-Ant1-2402-1000~26500-PASS

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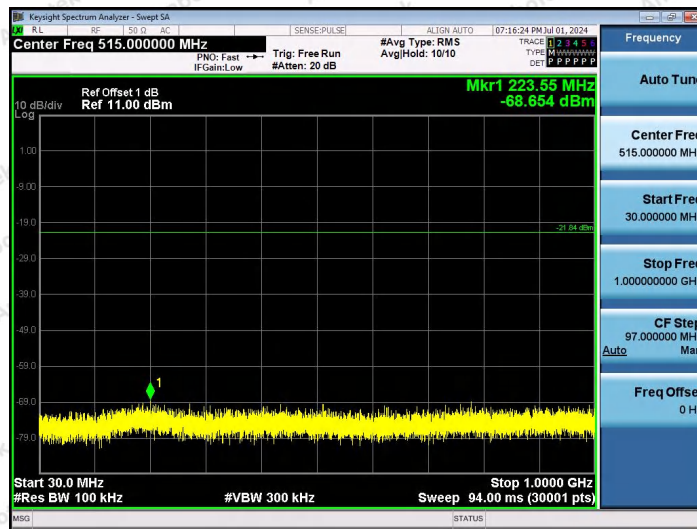
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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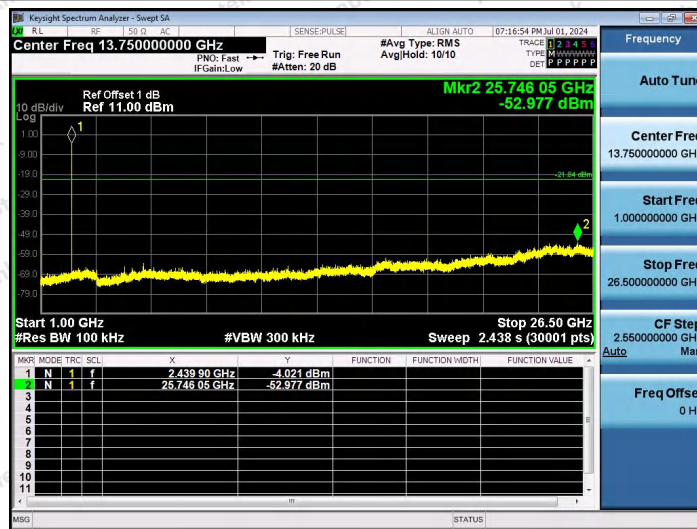




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



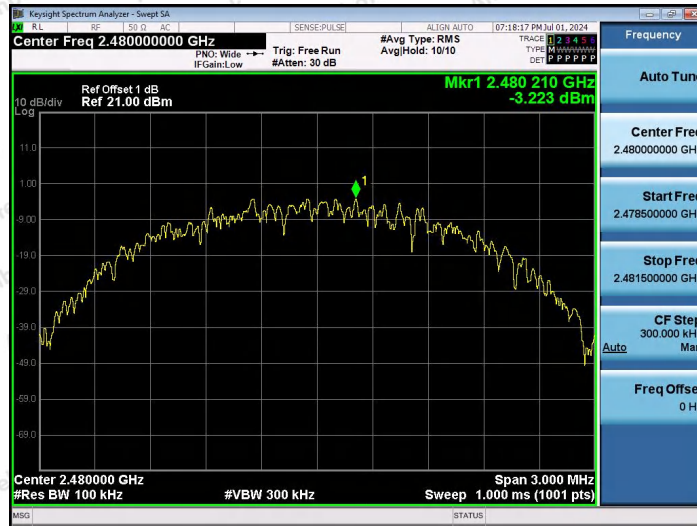
BLE_2M-Ant1-2440-1000~26500-PASS

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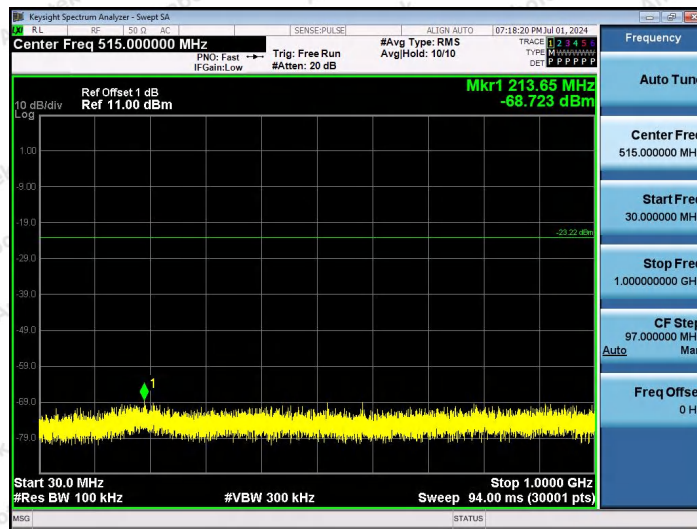
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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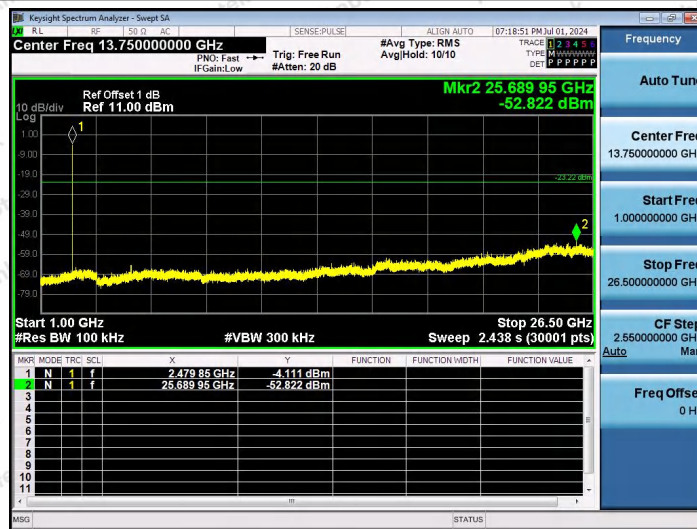




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

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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	0.09	0.63	14.29	8.45
BLE_1M	Ant1	2440	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	1.07	1.88	56.91	2.45
BLE_2M	Ant1	2440	1.07	1.88	56.91	2.45
BLE_2M	Ant1	2480	1.07	1.87	57.22	2.42

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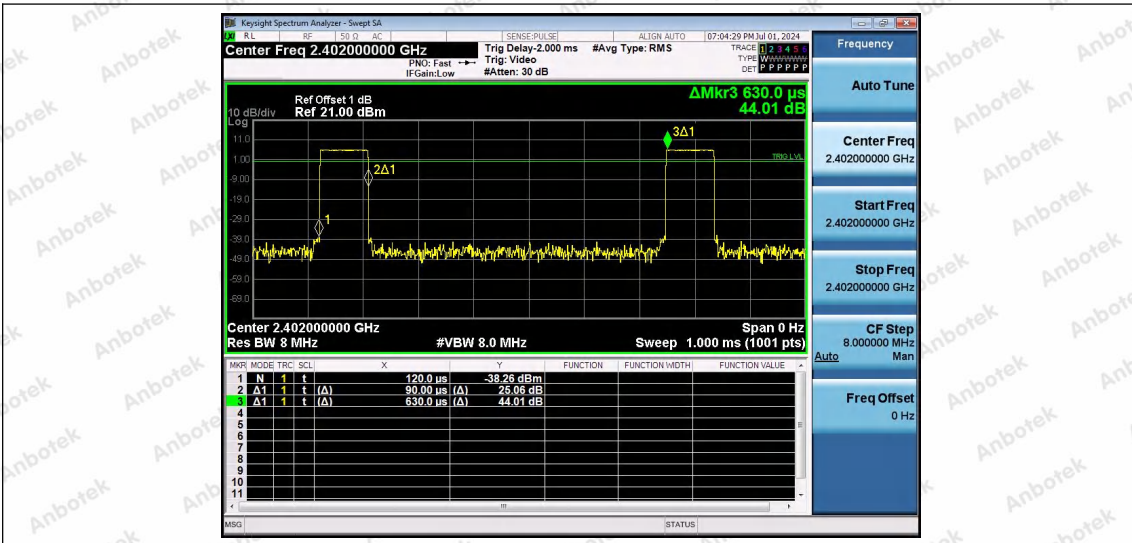
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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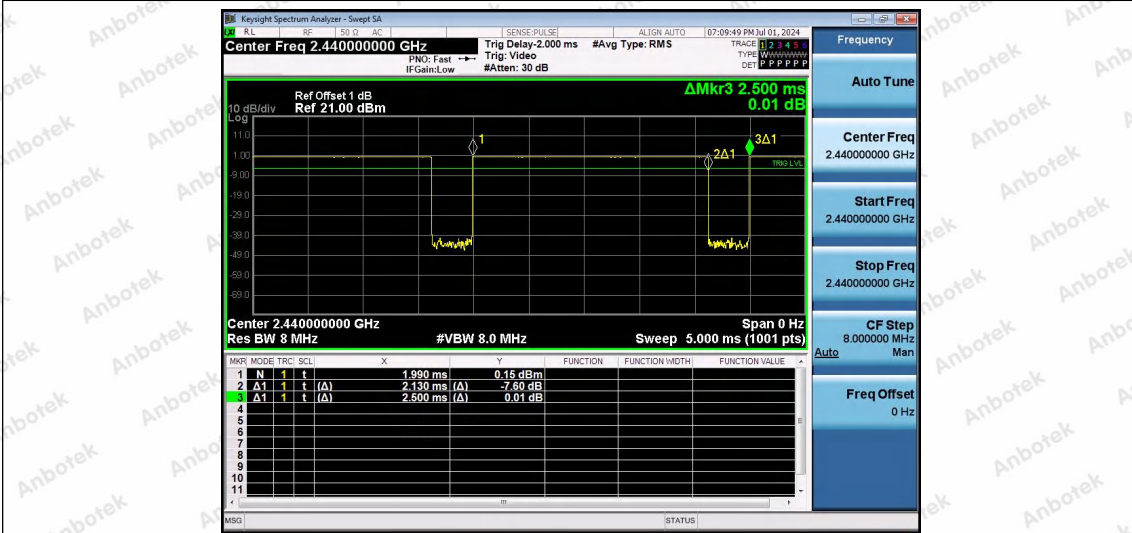
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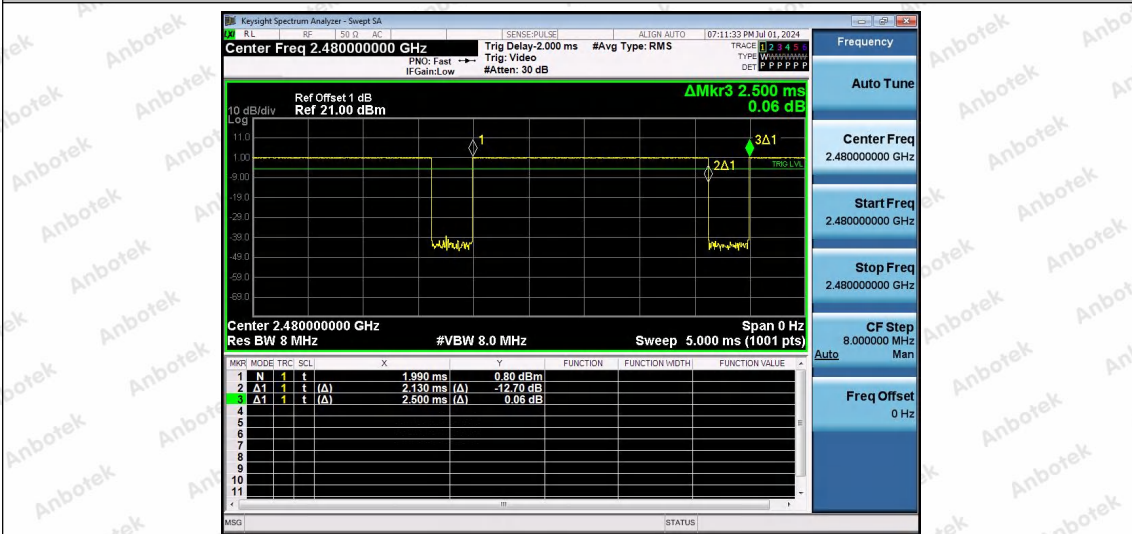
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



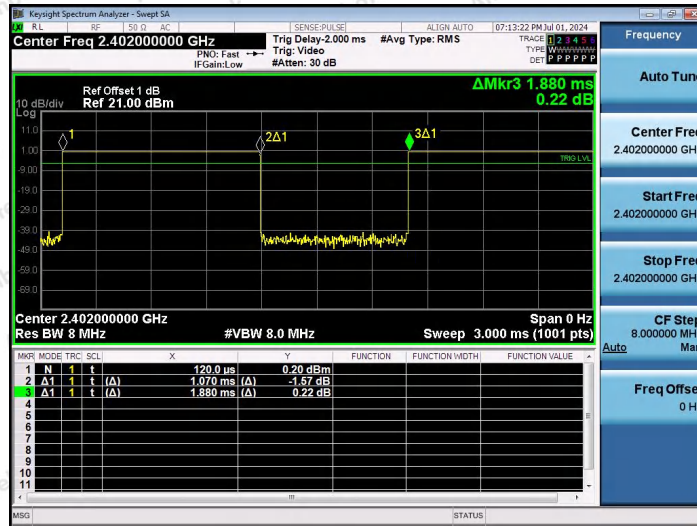
NTNV-BLE_1M-Ant1-2480

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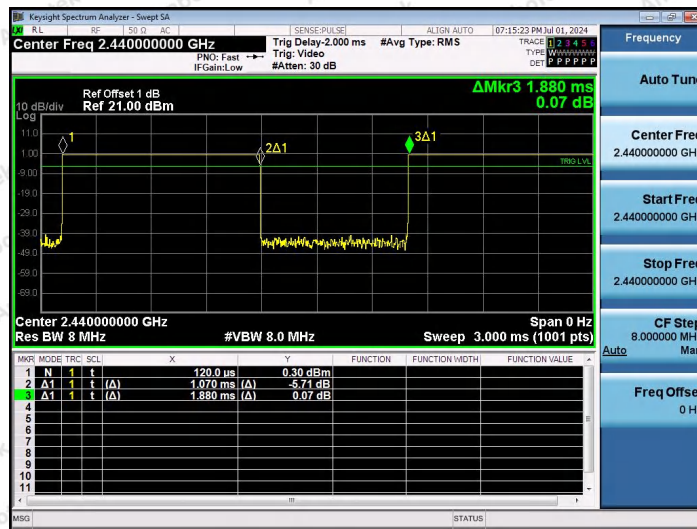
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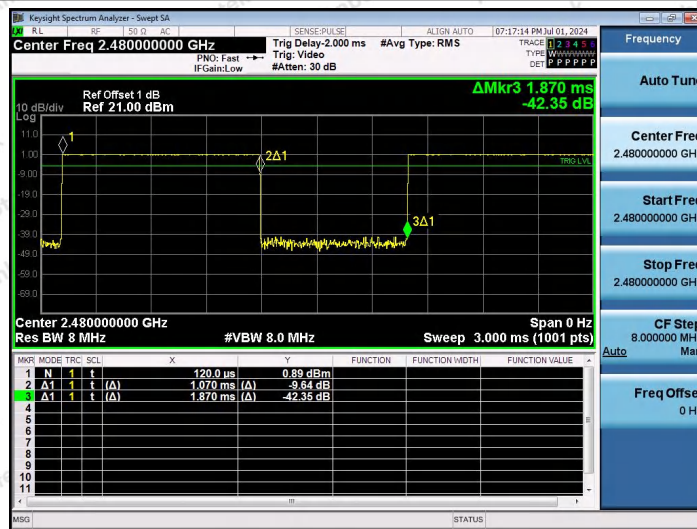




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

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