

Appendix Test Data

Report No.:	18220WC40030702	Test Sample No.:	1-2-2
Start Test Date:	2024.4.1	Finish Test Date:	2024.4.1
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	48%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

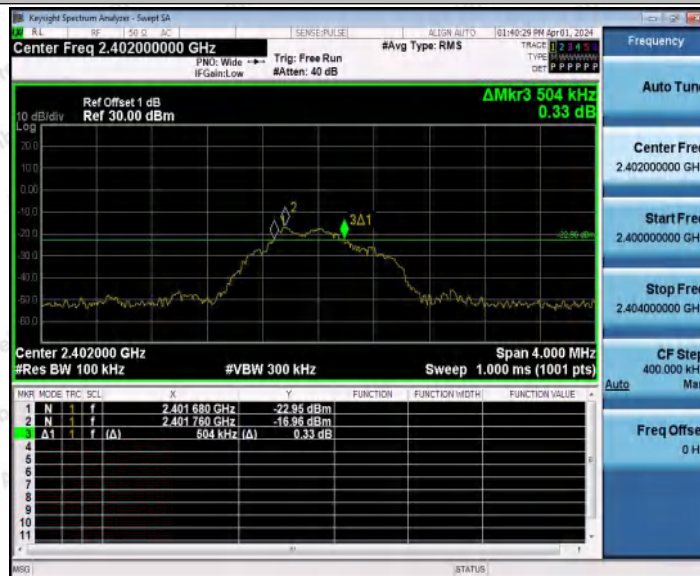
Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.504	2401.680	2402.184	0.5	PASS
		2440	0.504	2439.684	2440.188	0.5	PASS
		2480	0.508	2479.684	2480.192	0.5	PASS
BLE_2M	Ant1	2402	0.860	2401.416	2402.276	0.5	PASS
		2440	0.856	2439.420	2440.276	0.5	PASS
		2480	0.864	2479.420	2480.284	0.5	PASS



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 B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0557	2401.4904	2402.5461	---	---
		2440	1.0557	2439.4917	2440.5474	---	---
		2480	1.0561	2479.4913	2480.5474	---	---
BLE_2M	Ant1	2402	2.0790	2400.9823	2403.0613	---	---
		2440	2.0581	2438.9863	2441.0444	---	---
		2480	2.0740	2478.9835	2481.0575	---	---



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





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

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-15.97	≤30	PASS
		2440	-15.57	≤30	PASS
		2480	-15.28	≤30	PASS
BLE_2M	Ant1	2402	-15.98	≤30	PASS
		2440	-15.55	≤30	PASS
		2480	-15.13	≤30	PASS



Test Graphs Peak

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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Appendix D: Maximum Power Spectral Density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-36.51	≤8.00	PASS
		2440	-36.03	≤8.00	PASS
		2480	-35.64	≤8.00	PASS
BLE_2M	Ant1	2402	-39.06	≤8.00	PASS
		2440	-38.6	≤8.00	PASS
		2480	-38.22	≤8.00	PASS

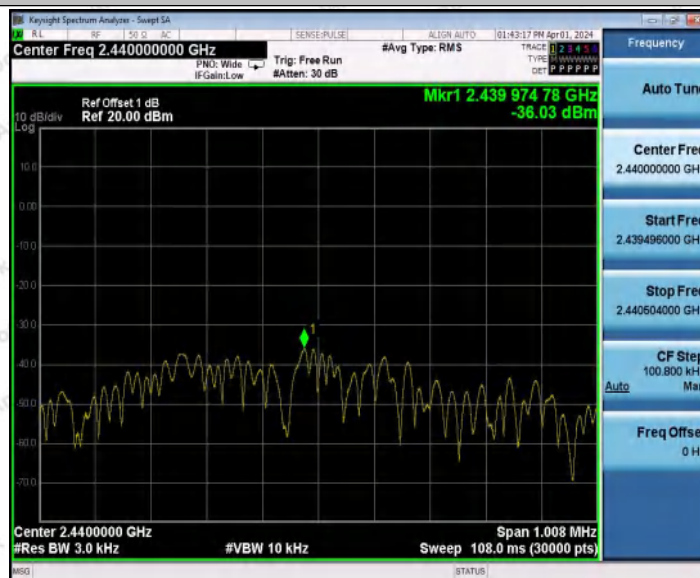


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

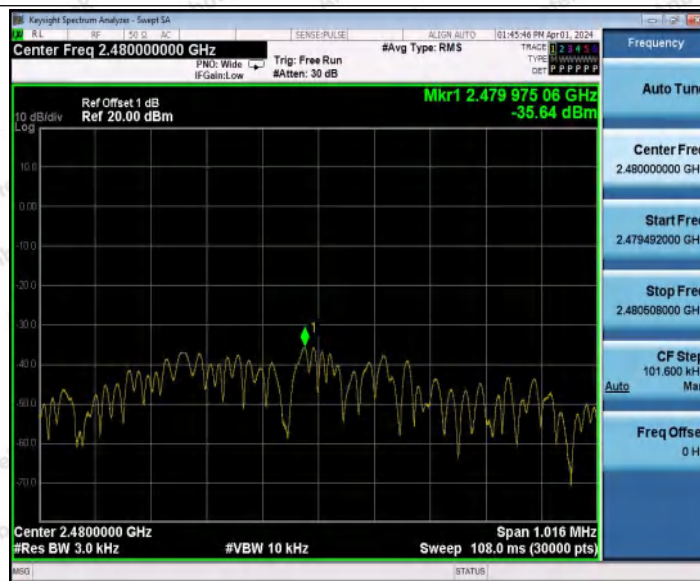
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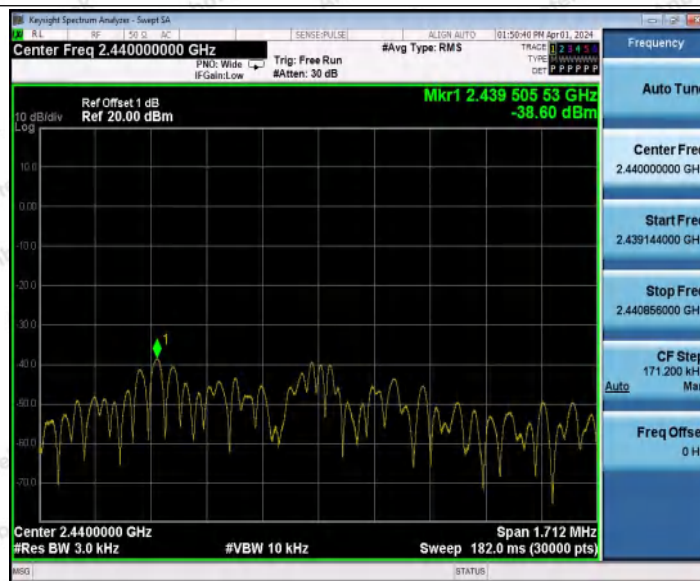


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



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Appendix E: Conducted Band edge

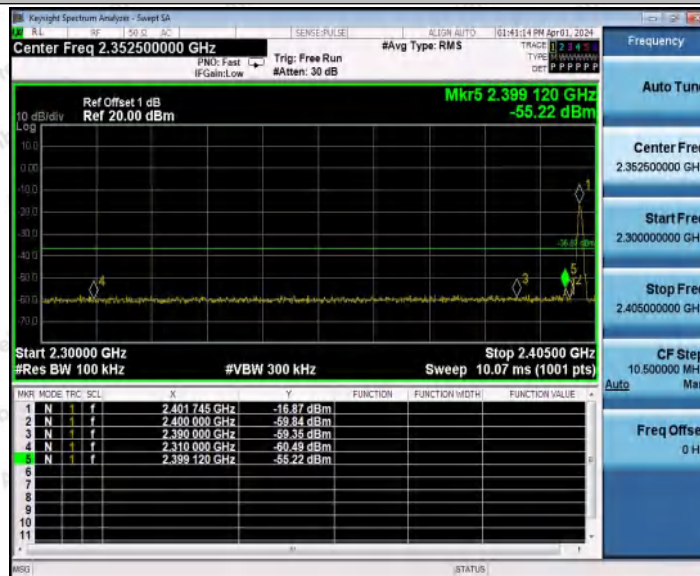
Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-16.87	-55.22	≤ -36.87	PASS
		High	2480	-16.00	-56.56	≤ -36	PASS
BLE_2M	Ant1	Low	2402	-17.29	-48.67	≤ -37.29	PASS
		High	2480	-16.42	-57.11	≤ -36.42	PASS

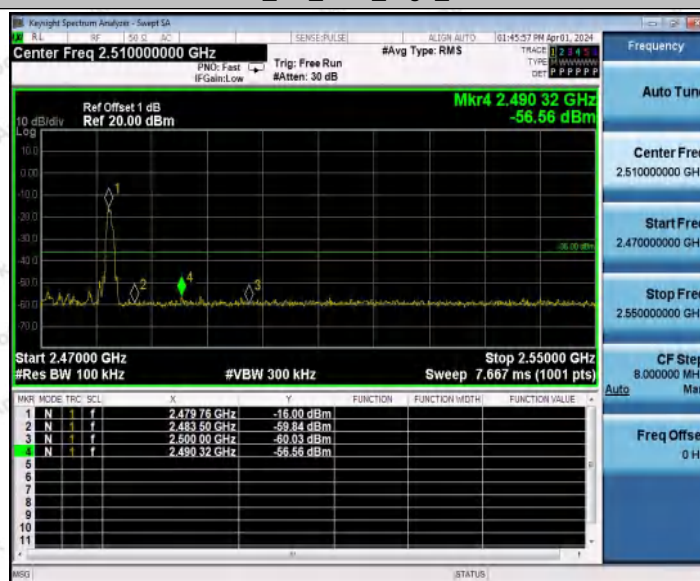


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

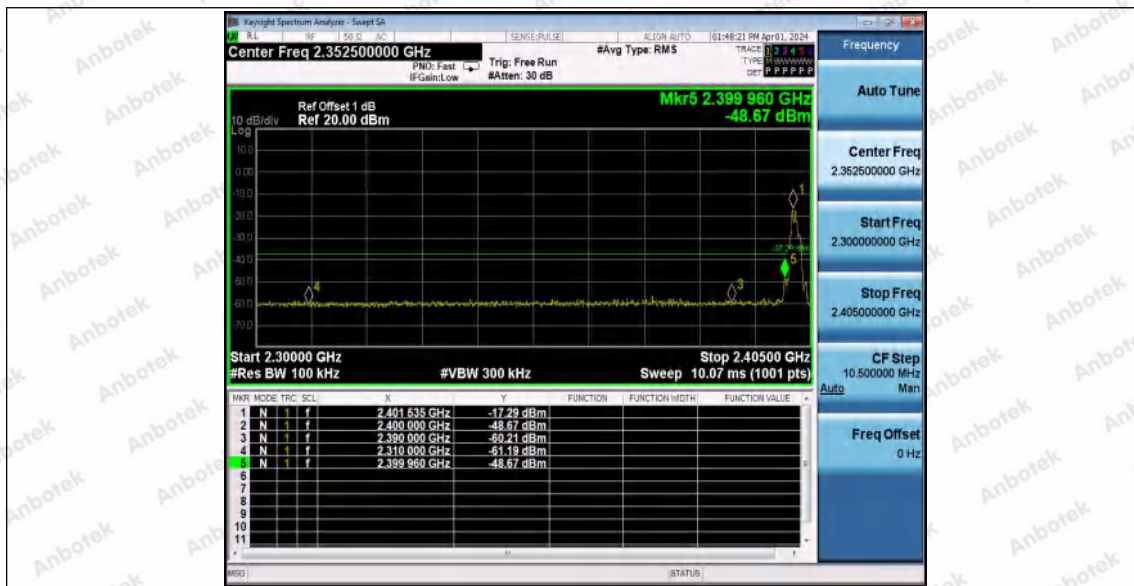
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BLE_2M_Ant1_High_2480



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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	-16.89	-16.89	---	PASS
			30~1000	-16.89	-61.59	≤-36.89	PASS
			1000~26500	-16.89	-50.32	≤-36.89	PASS
		2440	Reference	-16.42	-16.42	---	PASS
			30~1000	-16.42	-57.69	≤-36.42	PASS
			1000~26500	-16.42	-50.82	≤-36.42	PASS
		2480	Reference	-16.02	-16.02	---	PASS
			30~1000	-16.02	-68.65	≤-36.02	PASS
			1000~26500	-16.02	-52.48	≤-36.02	PASS
BLE_2M	Ant1	2402	Reference	-17.51	-17.51	---	PASS
			30~1000	-17.51	-68.26	≤-37.51	PASS
			1000~26500	-17.51	-49.95	≤-37.51	PASS
		2440	Reference	-17.05	-17.05	---	PASS
			30~1000	-17.05	-68.4	≤-37.05	PASS
			1000~26500	-17.05	-51.2	≤-37.05	PASS
		2480	Reference	-16.68	-16.68	---	PASS
			30~1000	-16.68	-68.39	≤-36.68	PASS
			1000~26500	-16.68	-53	≤-36.68	PASS

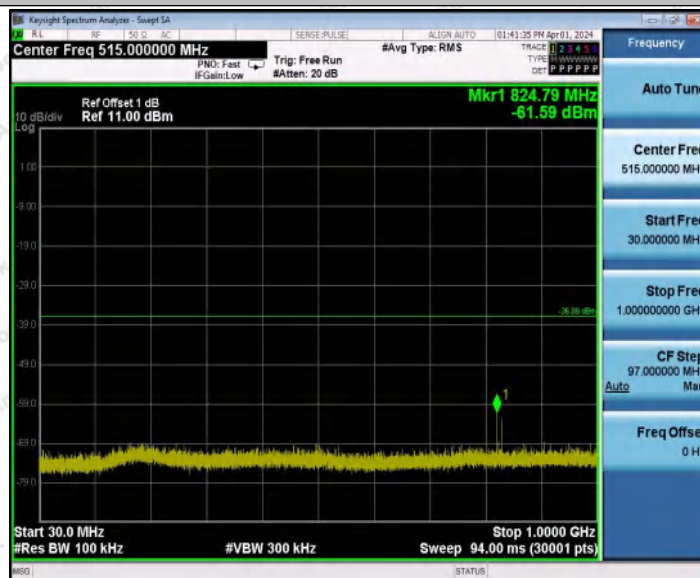


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

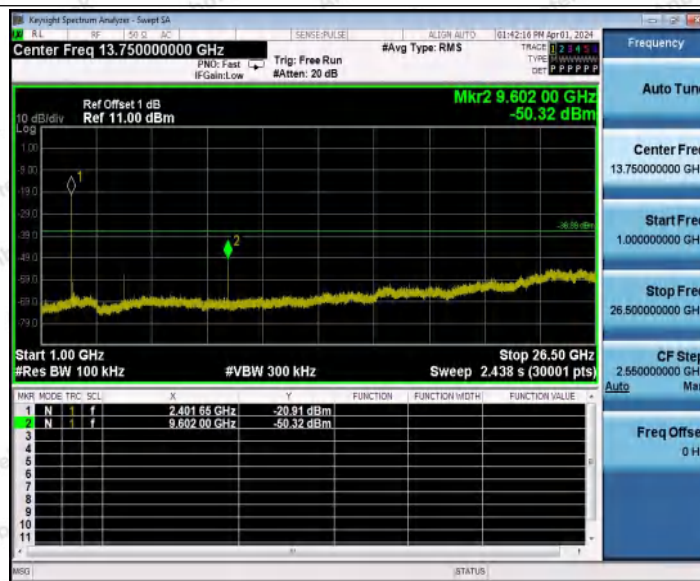
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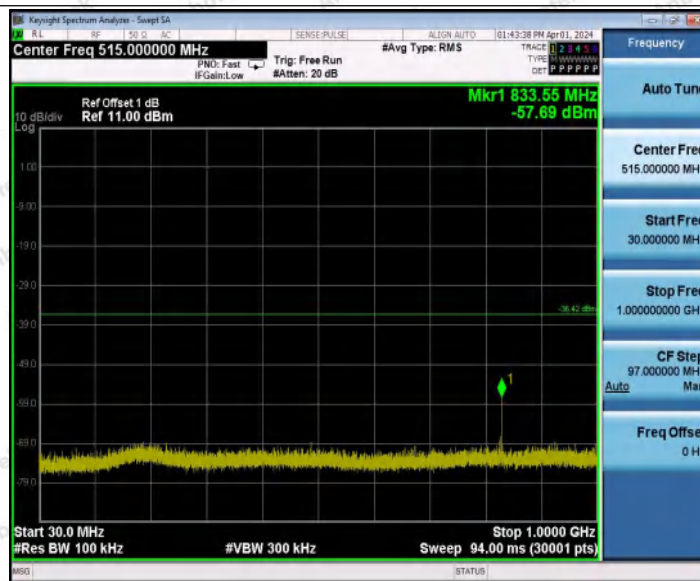


BLE_1M_Ant1_2440_0~Reference

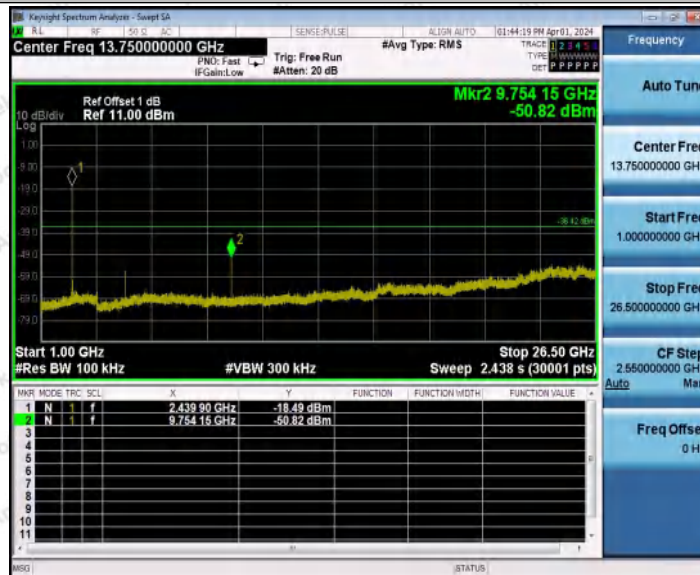


BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500

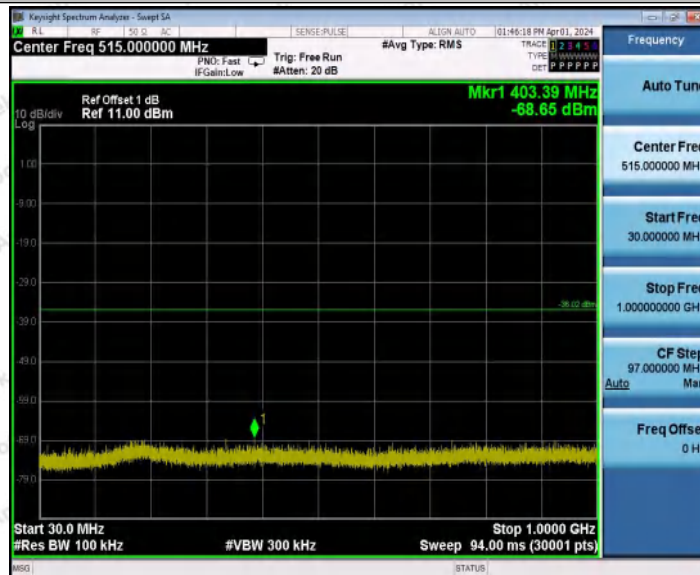


BLE_1M_Ant1_2480_0~Reference





BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

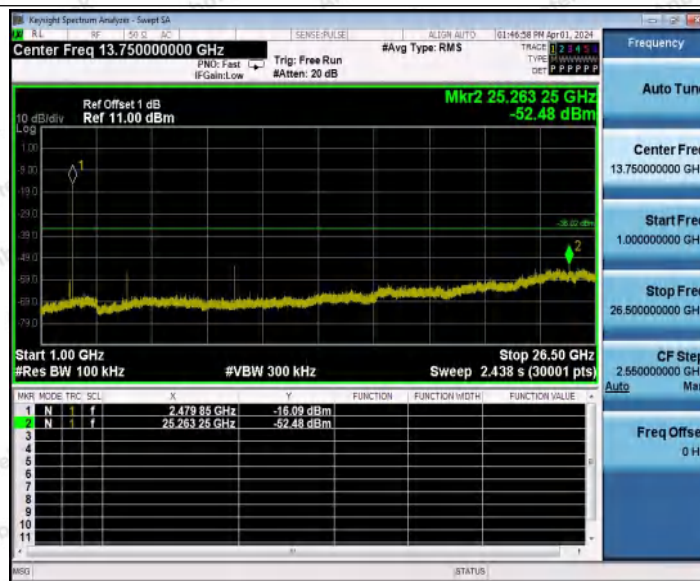
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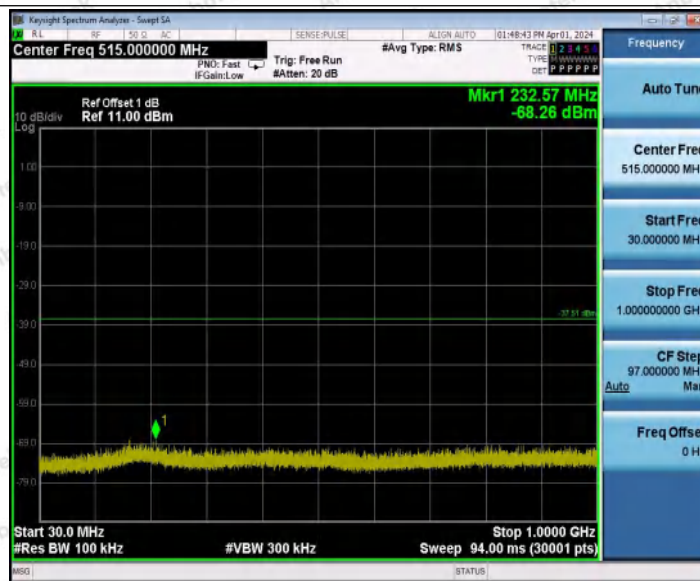


BLE_2M_Ant1_2402_0~Reference

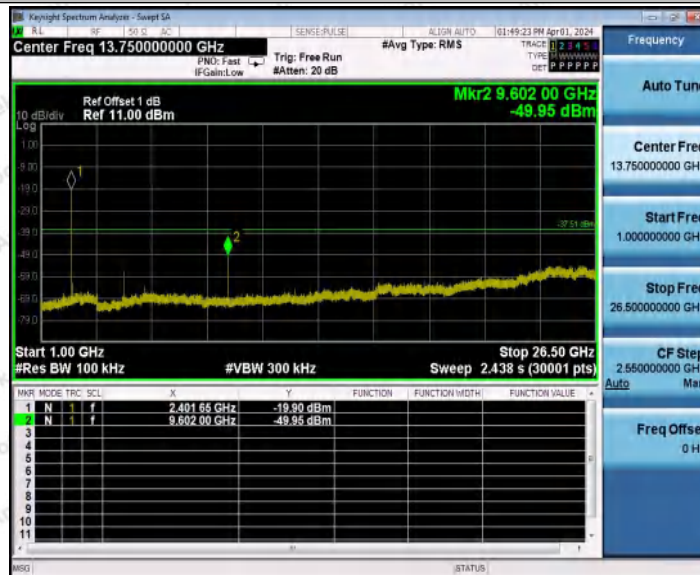


BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500

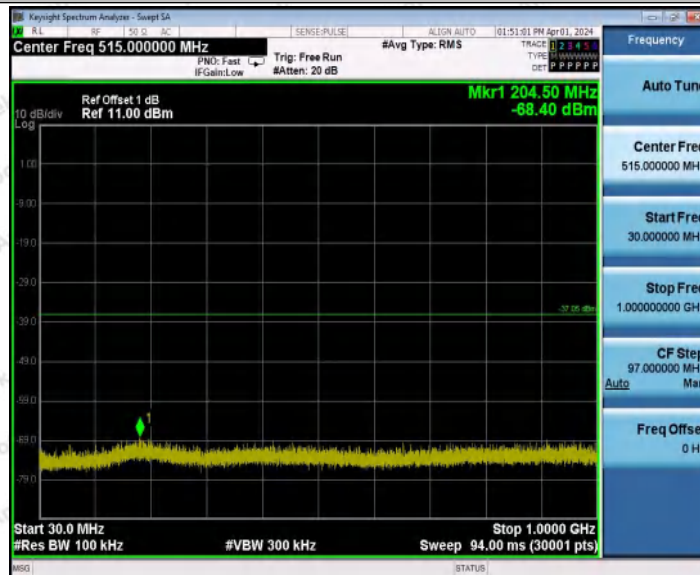


BLE_2M_Ant1_2440_0~Reference





BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

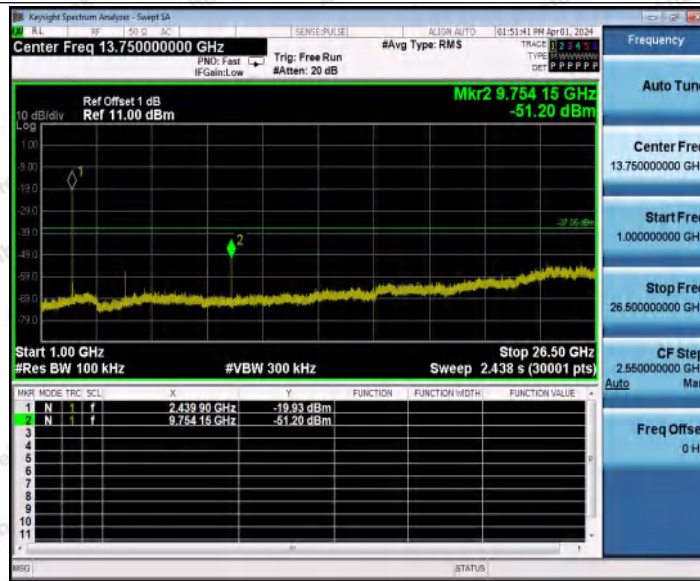
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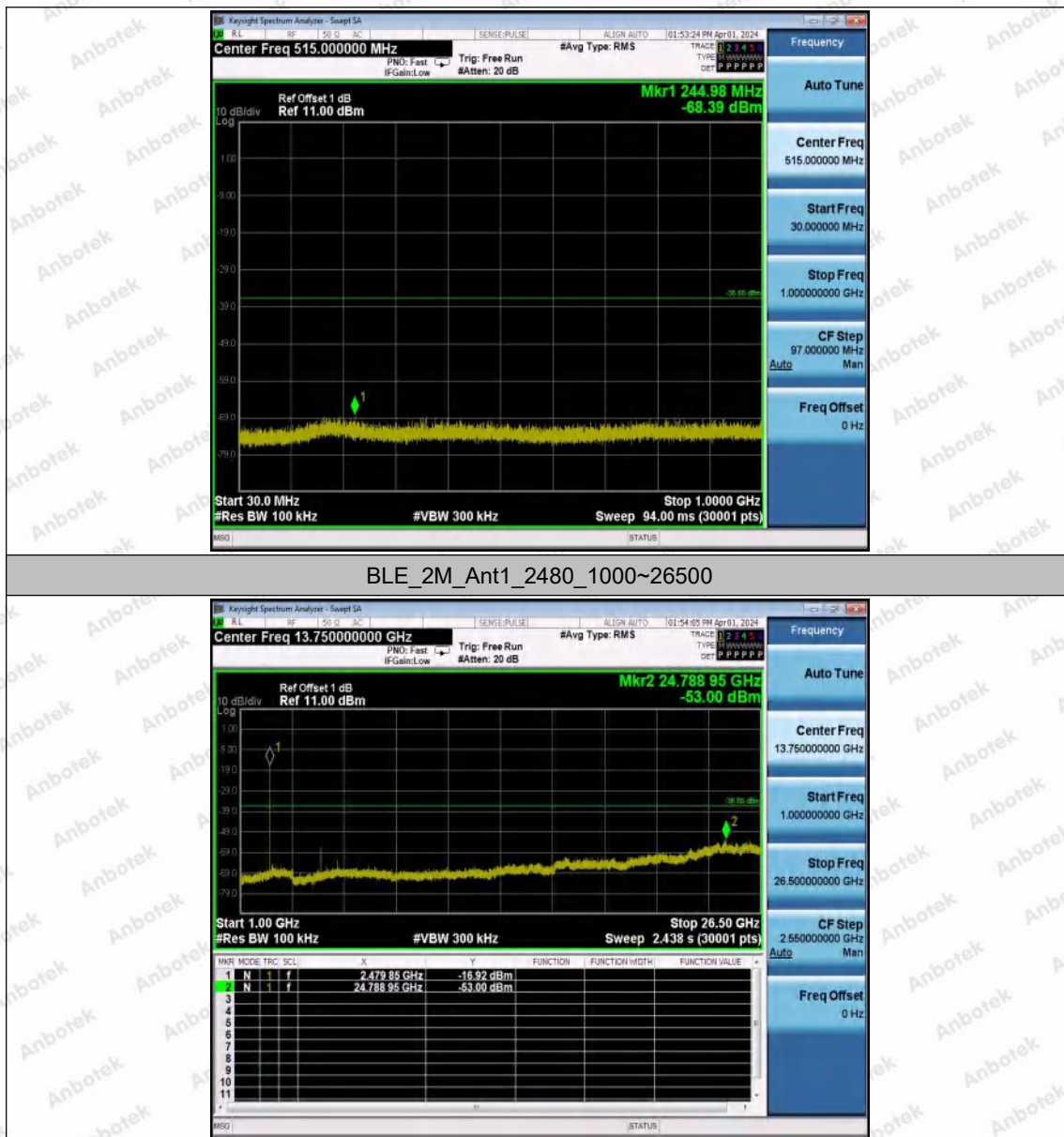


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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Appendix G: Duty Cycle

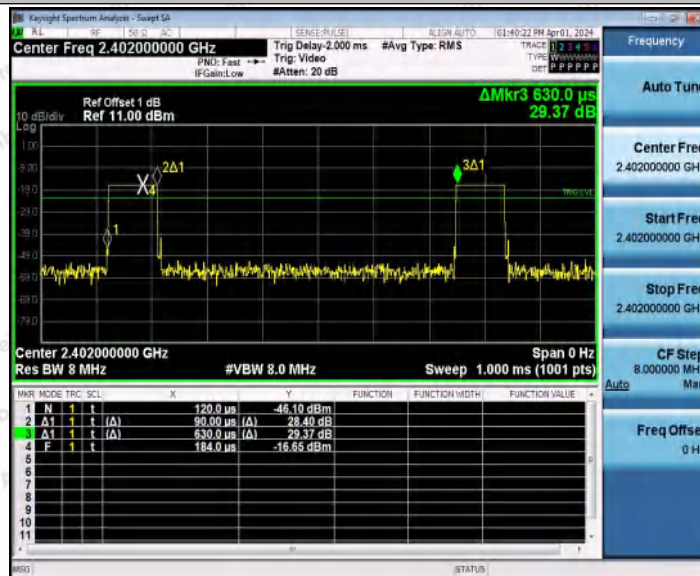
Test Result

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

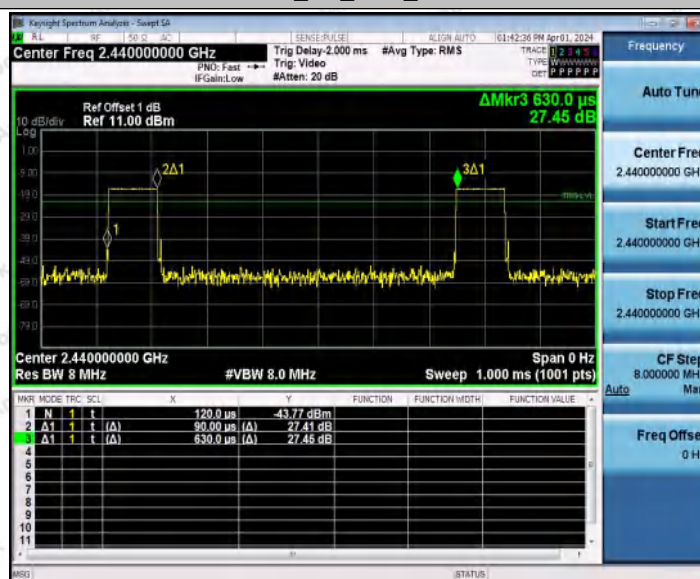


Test Graphs

BLE_1M_Ant1_2402

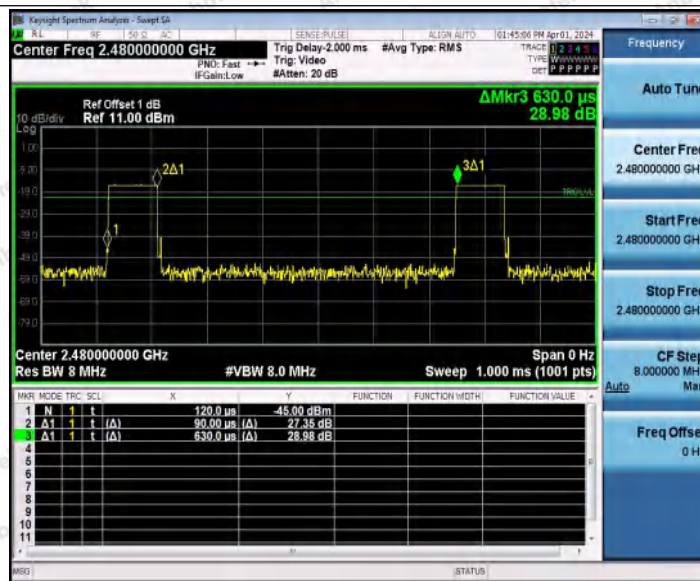


BLE_1M_Ant1_2440

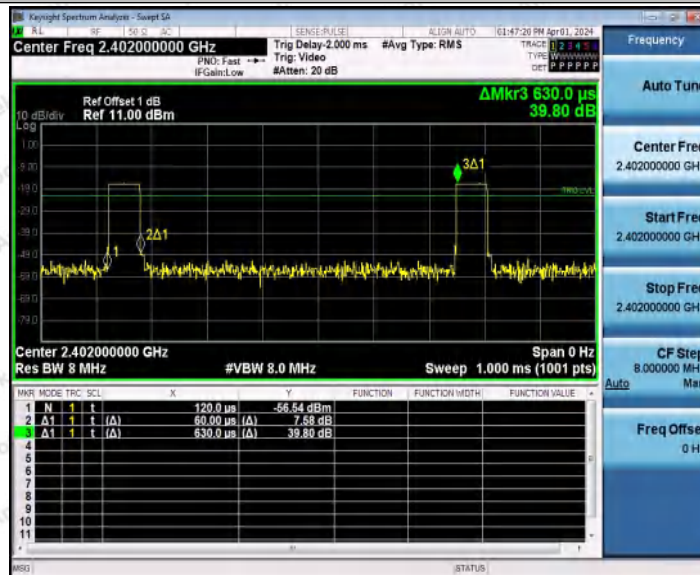


BLE_1M_Ant1_2480



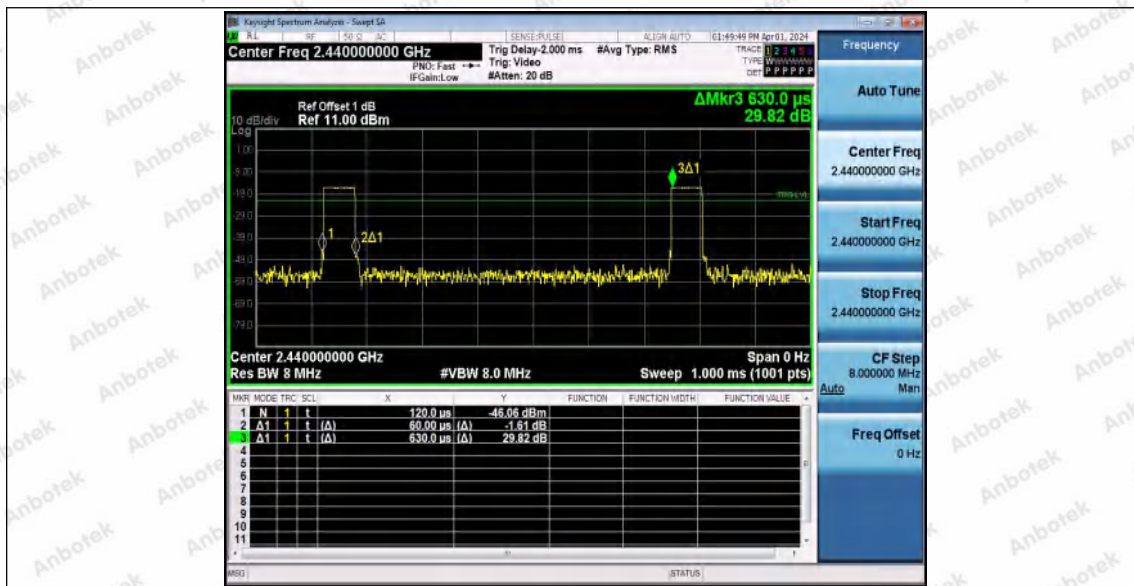


BLE_2M_Ant1_2402

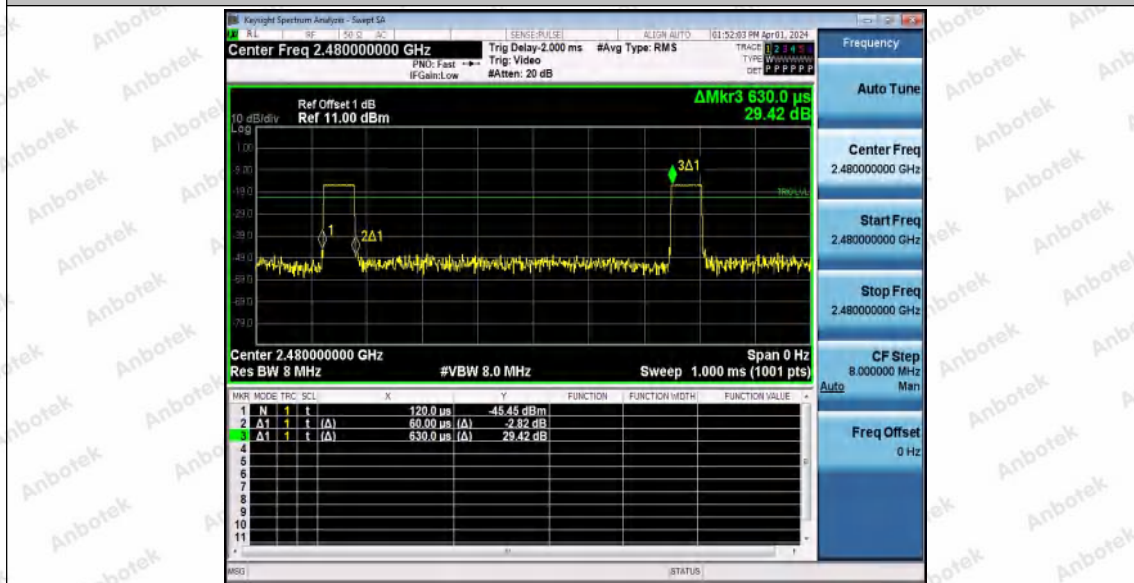


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



---END---

