

Appendix Test Data

Report No.:	18220WC20258801	Test Sample No.:	1-2-2
Start Test Date:	2024.2.21	Finish Test Date:	2024.3.12
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	48%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.512	2401.696	2402.208	0.5	PASS
		2440	0.516	2439.696	2440.212	0.5	PASS
		2480	0.520	2479.700	2480.220	0.5	PASS
BLE_2M	Ant1	2402	0.868	2401.436	2402.304	0.5	PASS
		2440	0.860	2439.436	2440.296	0.5	PASS
		2480	0.840	2479.432	2480.272	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: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0571	2401.5062	2402.5633	---	---
		2440	1.0612	2439.4778	2440.5390	---	---
		2480	1.1360	2479.4333	2480.5693	---	---
BLE_2M	Ant1	2402	2.0586	2401.0171	2403.0757	---	---
		2440	2.0303	2439.0280	2441.0583	---	---
		2480	2.0854	2478.9987	2481.0841	---	---



Test Graphs



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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

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.89	≤30	PASS
		2440	4.26	≤30	PASS
		2480	4.38	≤30	PASS
BLE_2M	Ant1	2402	3.86	≤30	PASS
		2440	4.24	≤30	PASS
		2480	4.34	≤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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BLE_2M_Ant1_2480



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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1 M	Ant1	2402	-0.30	-10.30	≤8.00	PASS
		2440	0.06	-9.94	≤8.00	PASS
		2480	0.29	-9.71	≤8.00	PASS
BLE_2 M	Ant1	2402	-2.87	-12.87	≤8.00	PASS
		2440	-2.63	-12.63	≤8.00	PASS
		2480	-1.93	-11.93	≤8.00	PASS

Note:

1. The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.
2. $\text{PSD}(\text{dBm}/3\text{kHz}) = \text{PSD}(\text{dBm}/30\text{kHz}) - (10 \cdot \log(30/3))$



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

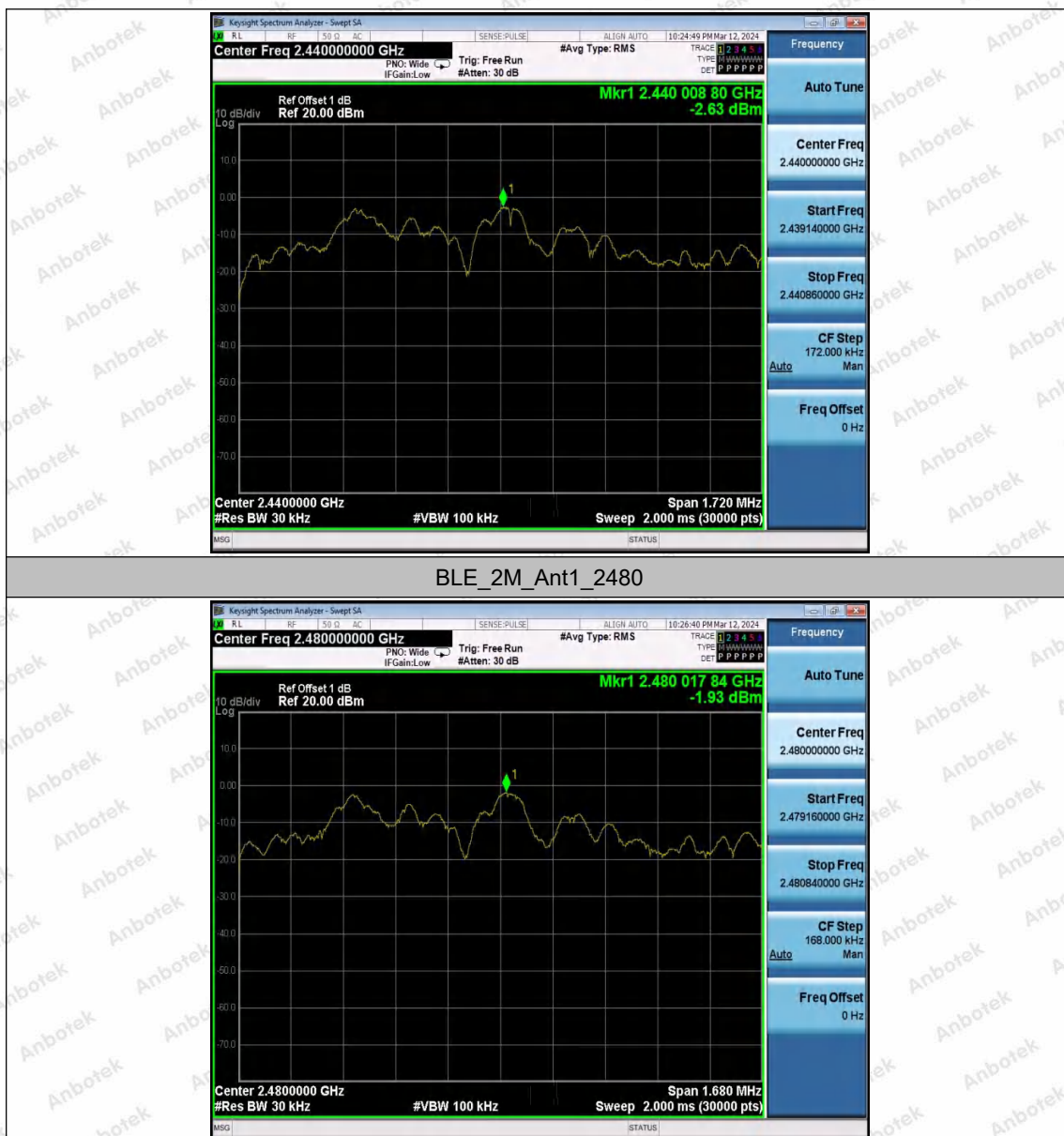
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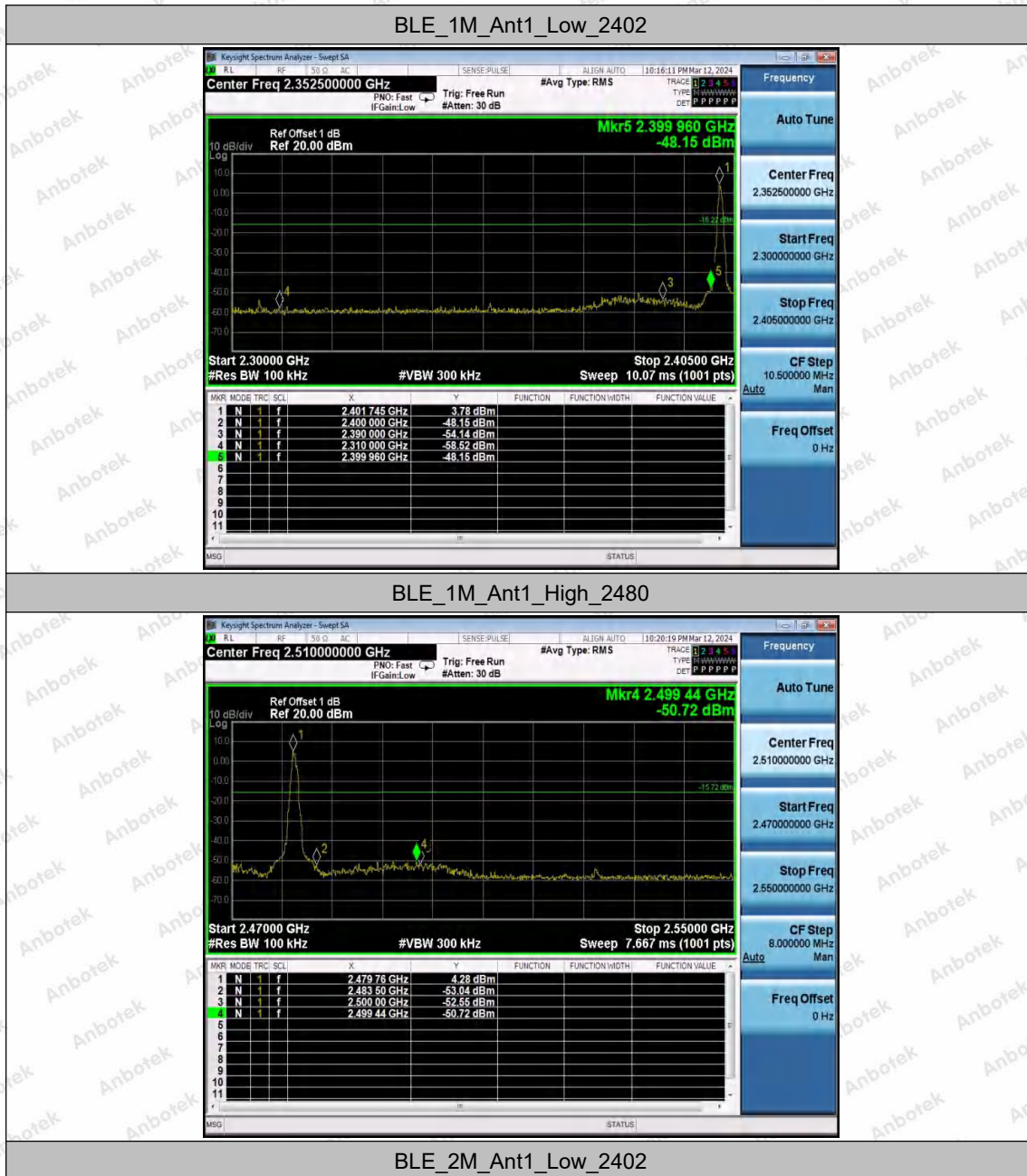
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.78	-48.15	≤-16.22	PASS
		High	2480	4.28	-50.72	≤-15.72	PASS
BLE_2M	Ant1	Low	2402	2.86	-28.62	≤-17.14	PASS
		High	2480	3.81	-45.41	≤-16.19	PASS



Test Graphs



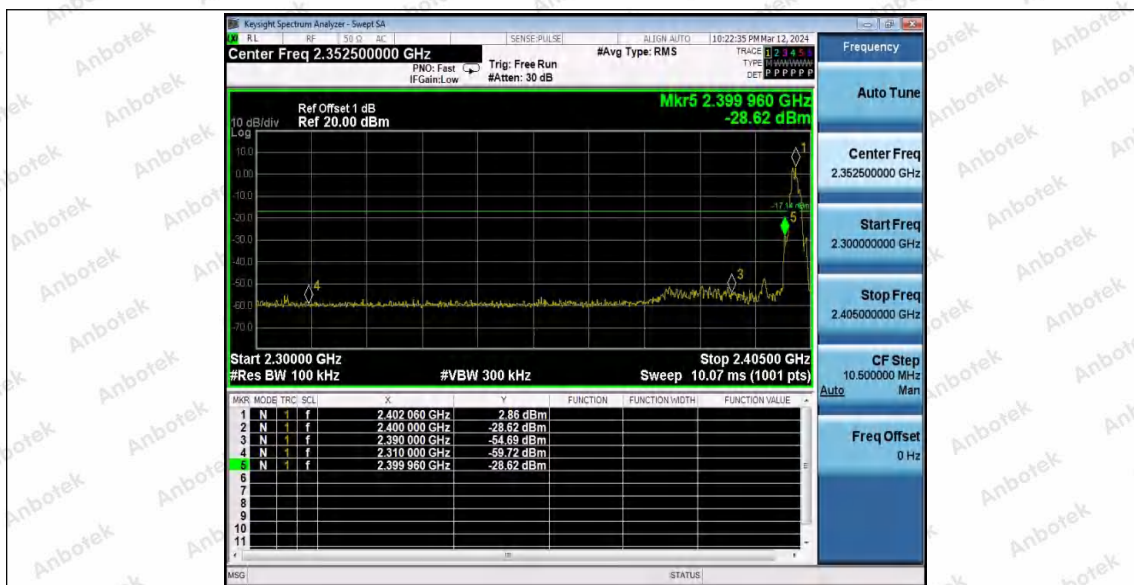
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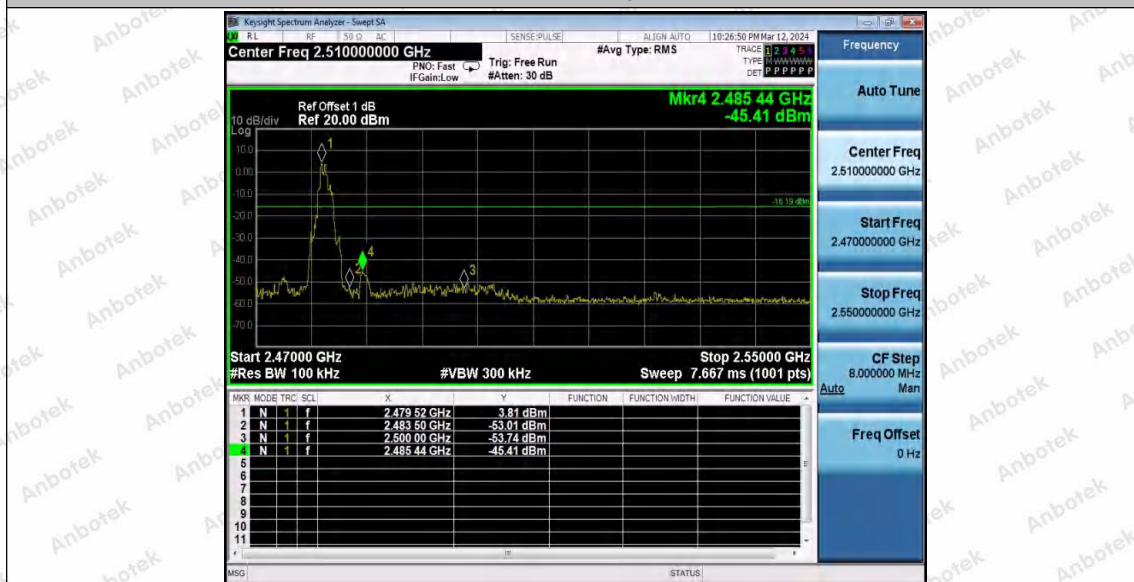


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BLE_2M_Ant1_High_2480



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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.76	3.76	---	PASS
			30~1000	3.76	-67.46	≤-16.24	PASS
			1000~26500	3.76	-49.13	≤-16.24	PASS
		2440	Reference	4.13	4.13	---	PASS
			30~1000	4.13	-67.63	≤-15.87	PASS
			1000~26500	4.13	-46.09	≤-15.87	PASS
		2480	Reference	4.24	4.24	---	PASS
			30~1000	4.24	-68.18	≤-15.76	PASS
			1000~26500	4.24	-46.17	≤-15.76	PASS
BLE_2M	Ant1	2402	Reference	3.03	3.03	---	PASS
			30~1000	3.03	-68.33	≤-16.97	PASS
			1000~26500	3.03	-53.3	≤-16.97	PASS
		2440	Reference	3.39	3.39	---	PASS
			30~1000	3.39	-67.77	≤-16.61	PASS
			1000~26500	3.39	-43.41	≤-16.61	PASS
		2480	Reference	3.61	3.61	---	PASS
			30~1000	3.61	-67.46	≤-16.39	PASS
			1000~26500	3.61	-46.78	≤-16.39	PASS

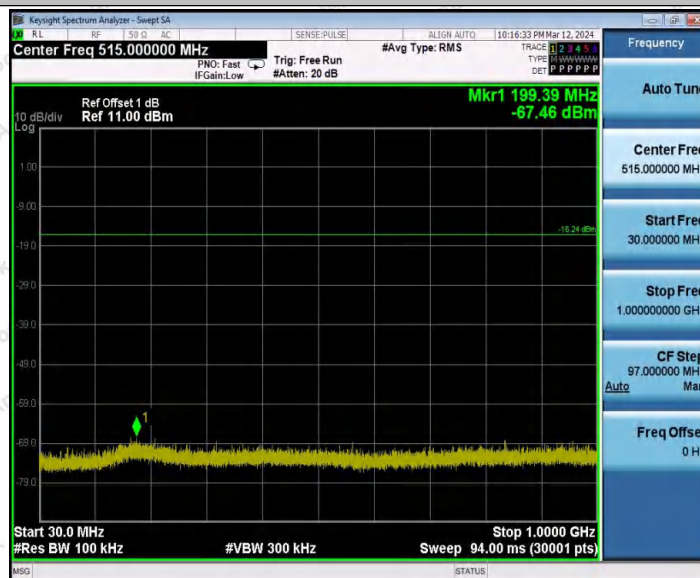


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

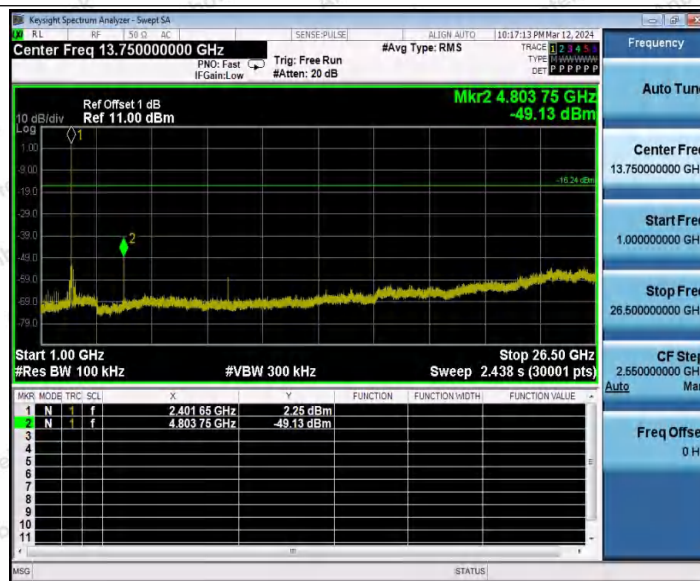
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

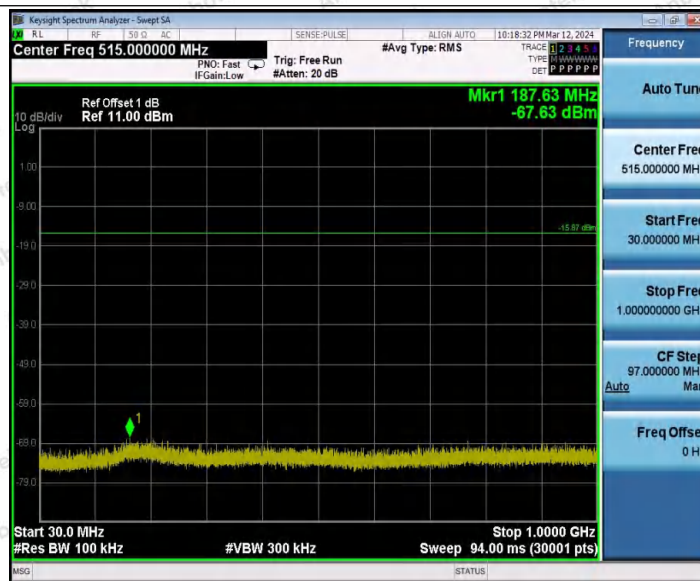
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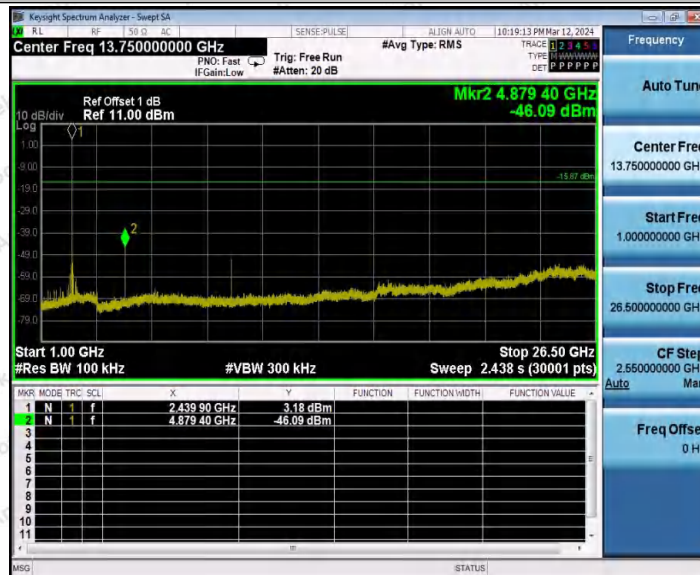


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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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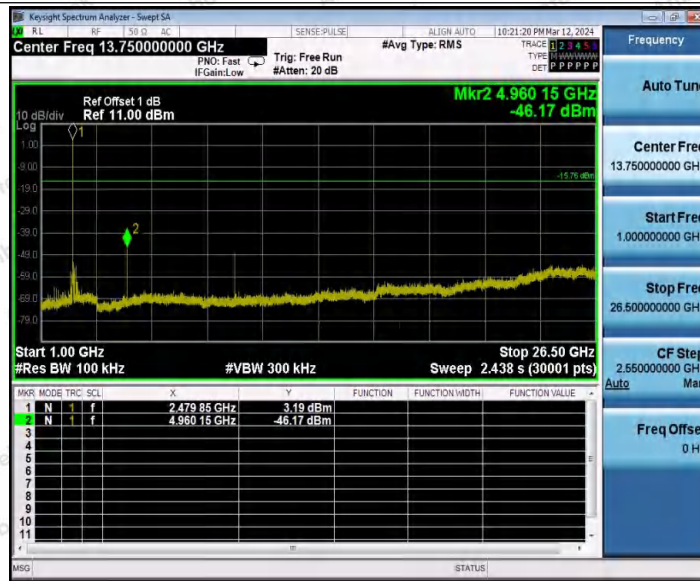
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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

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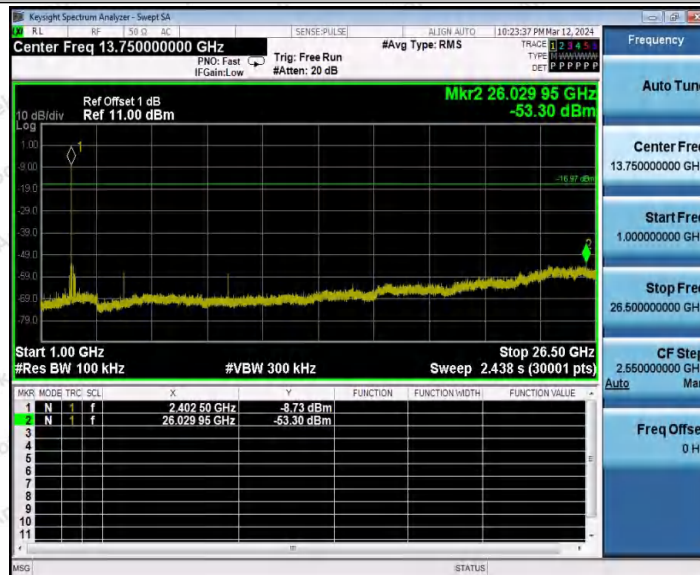


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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference





BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

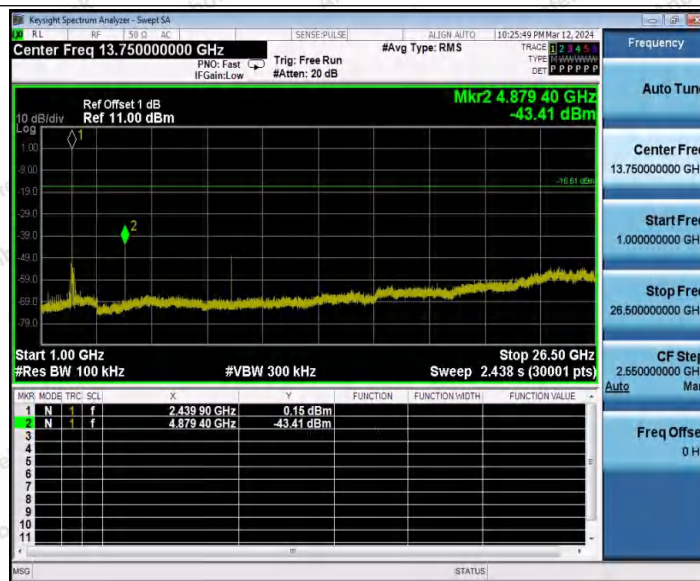
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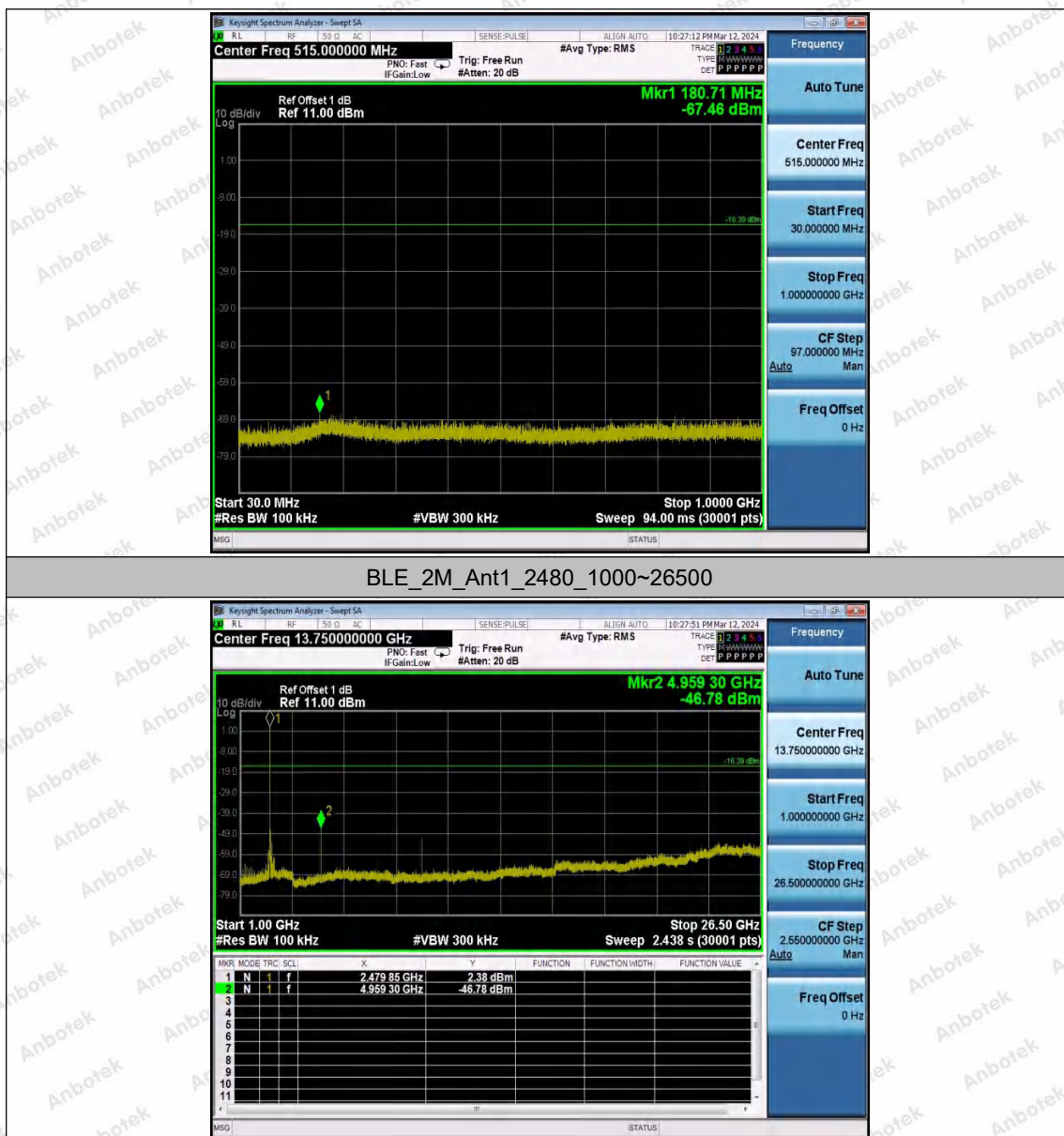


BLE_2M_Ant1_2480_0~Reference



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

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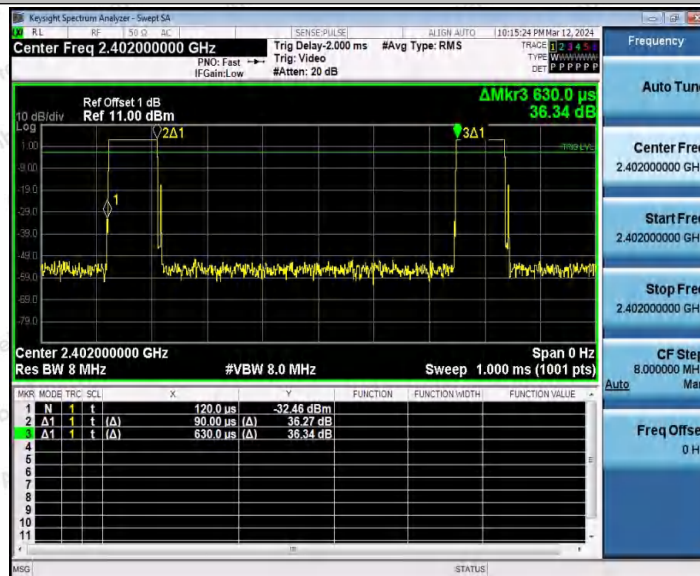


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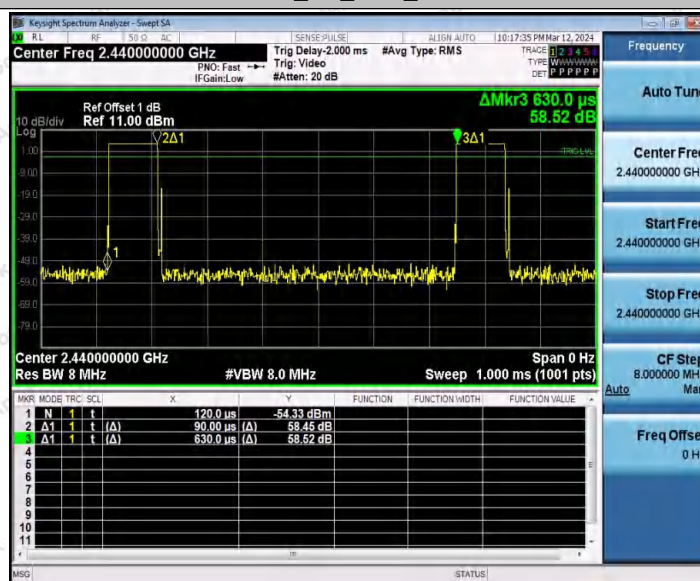


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

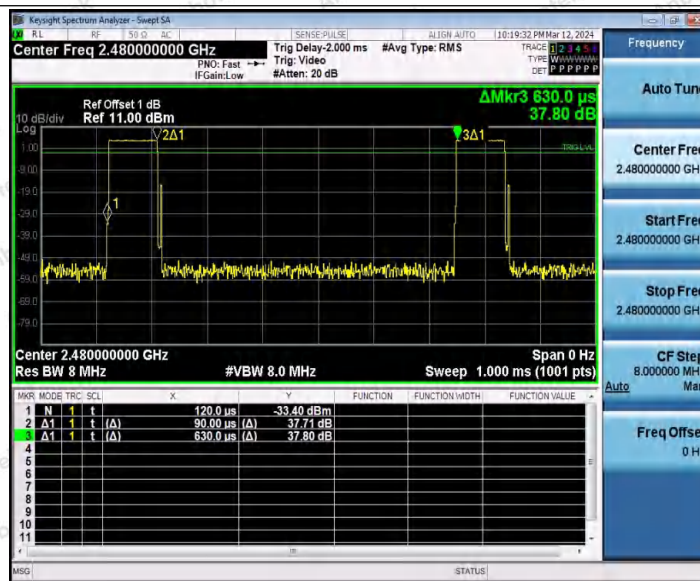
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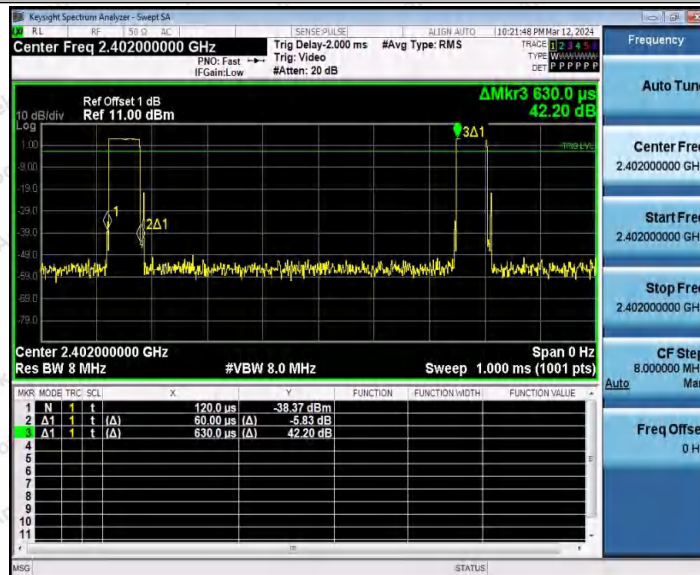


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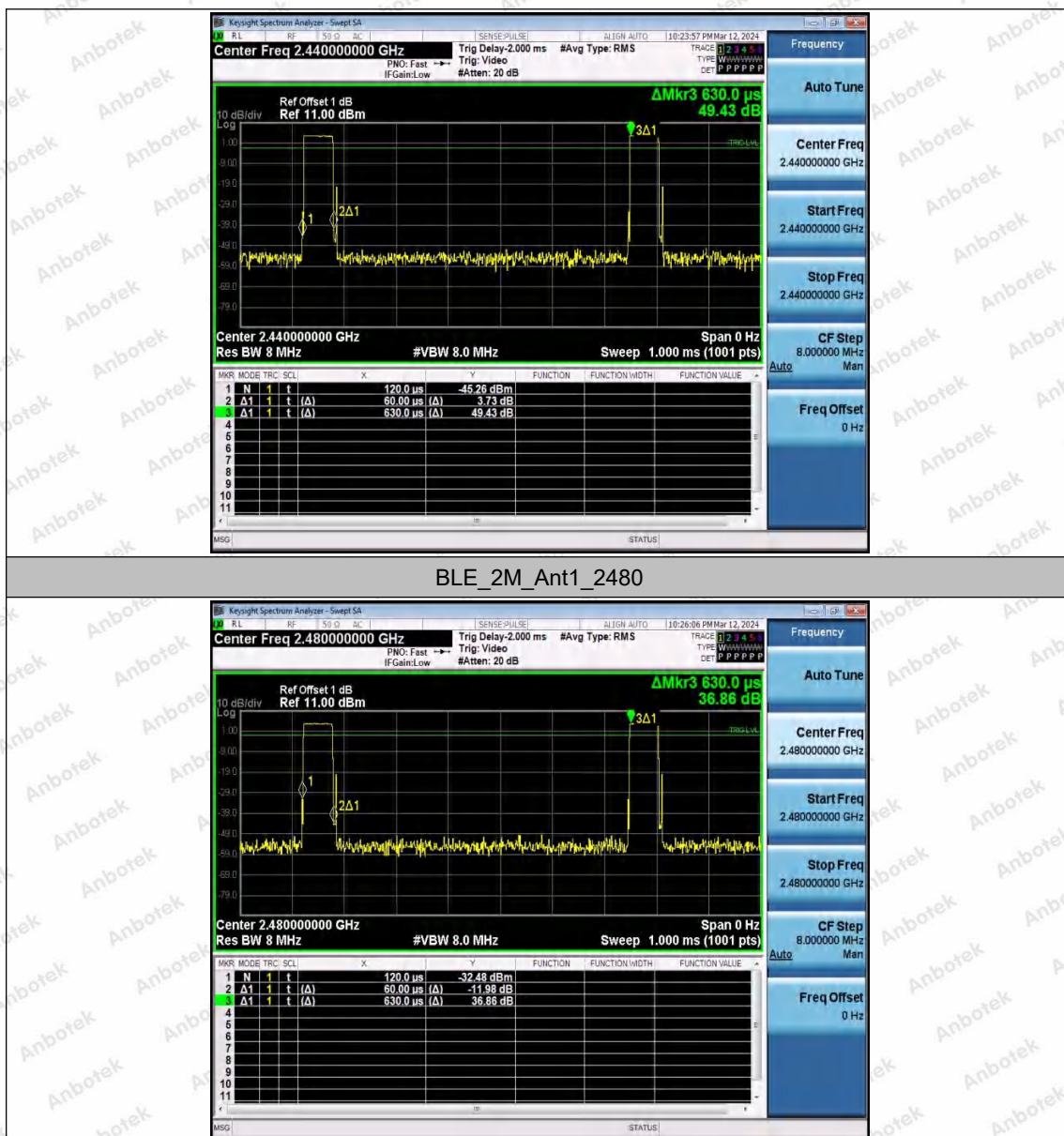


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---END---

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