

## Appendix Test Data

Report No:	18360WC30005604W	Test Sample NO:	1-2-2
Start Test Date:	2023.2.23	Finish Test Date:	2023.2.23
Test Engineer:	<i>Rick Luo</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56%
Pressure:	1012 hPa		

## Appendix A: RF Output Power

## Test Result

Test Condition	Test Mode	Antenna	Frequency [MHz]	Burst Power [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
NTNV	BLE_1M	Ant1	2402	0.15	4.16	4.31	20	PASS
			2440	-0.62	4.16	3.54	20	PASS
			2480	0.28	4.16	4.44	20	PASS
	BLE_2M	Ant1	2402	0.24	4.16	4.40	20	PASS
			2440	-0.16	4.16	4.00	20	PASS
			2480	0.62	4.16	4.78	20	PASS
LTNV	BLE_1M	Ant1	2402	0.20	4.16	4.36	20	PASS
			2440	-0.54	4.16	3.62	20	PASS
			2480	0.32	4.16	4.48	20	PASS
	BLE_2M	Ant1	2402	0.24	4.16	4.40	20	PASS
			2440	-0.15	4.16	4.01	20	PASS
			2480	0.65	4.16	4.81	20	PASS
HTNV	BLE_1M	Ant1	2402	0.13	4.16	4.29	20	PASS
			2440	-0.64	4.16	3.52	20	PASS
			2480	0.26	4.16	4.42	20	PASS
	BLE_2M	Ant1	2402	0.29	4.16	4.45	20	PASS
			2440	-0.18	4.16	3.98	20	PASS
			2480	0.60	4.16	4.76	20	PASS

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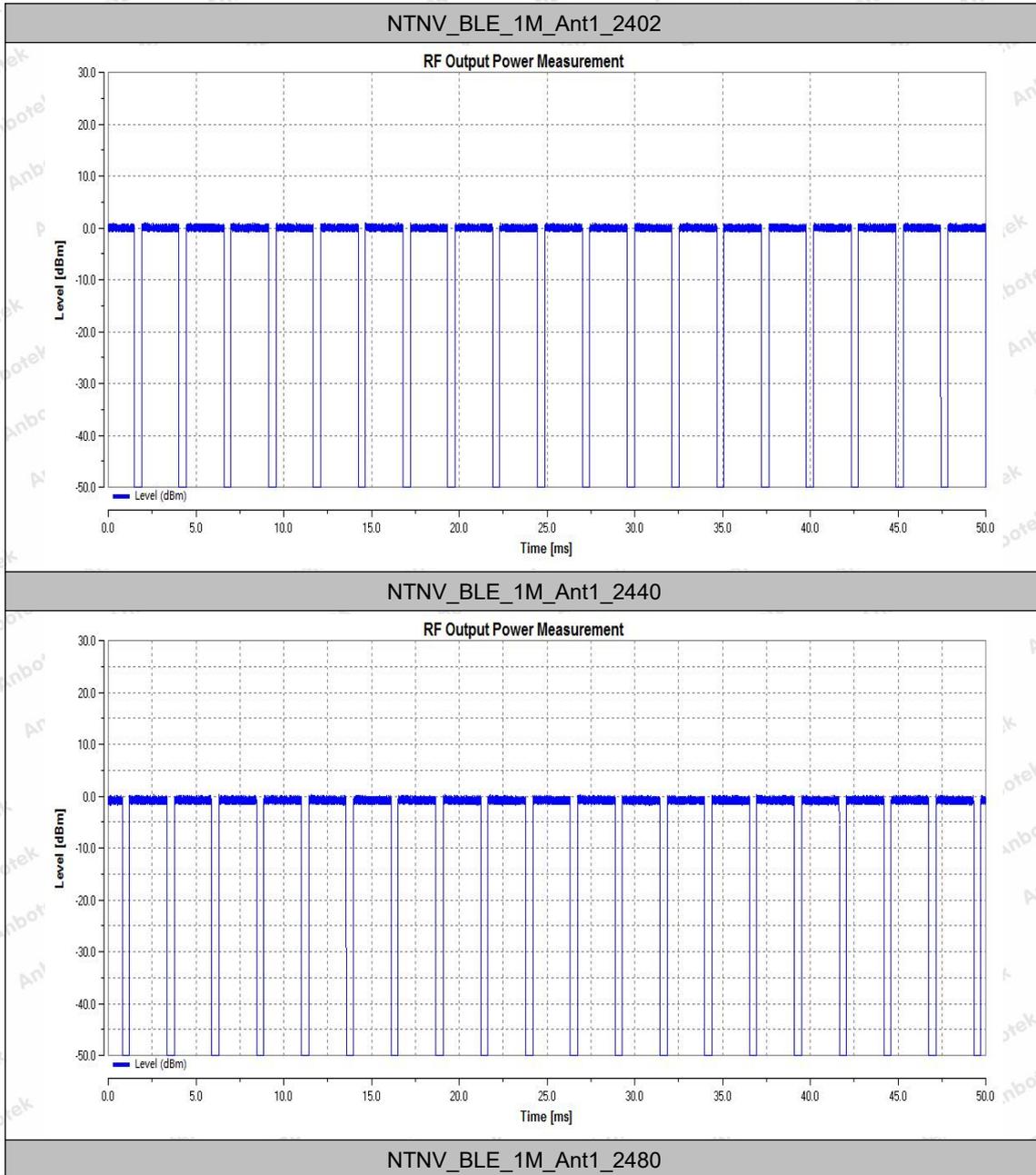
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## Test Graphs

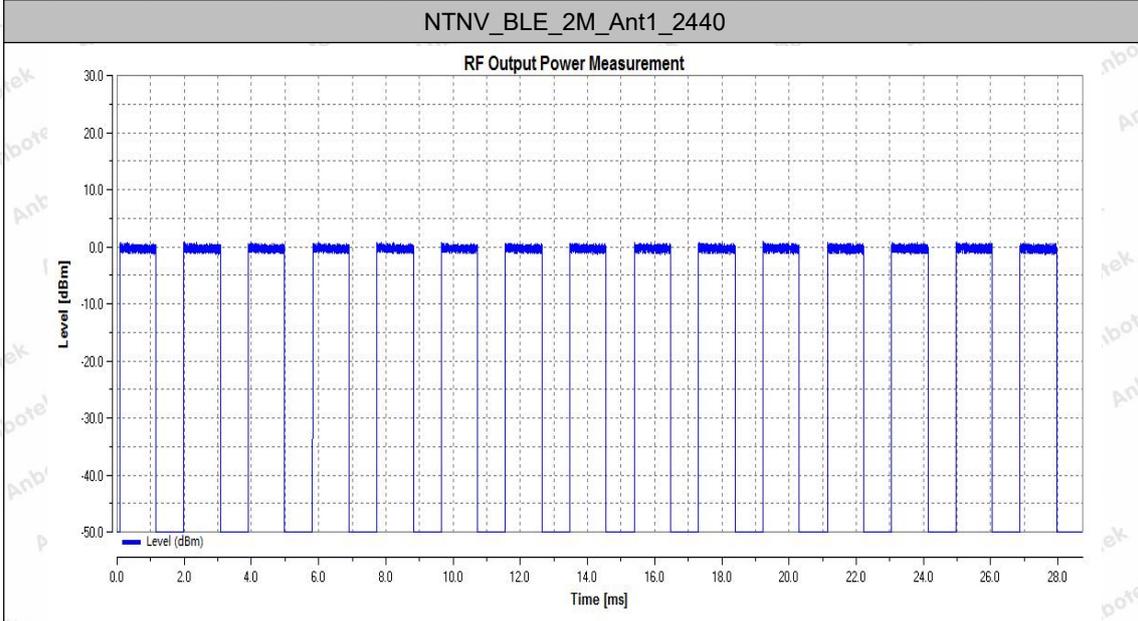
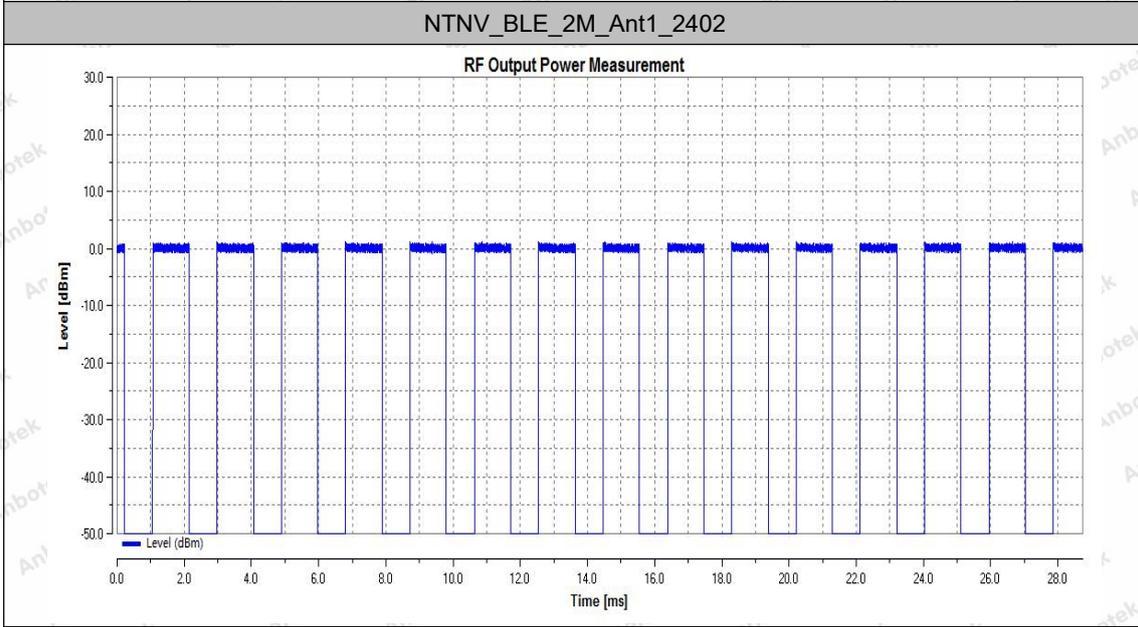
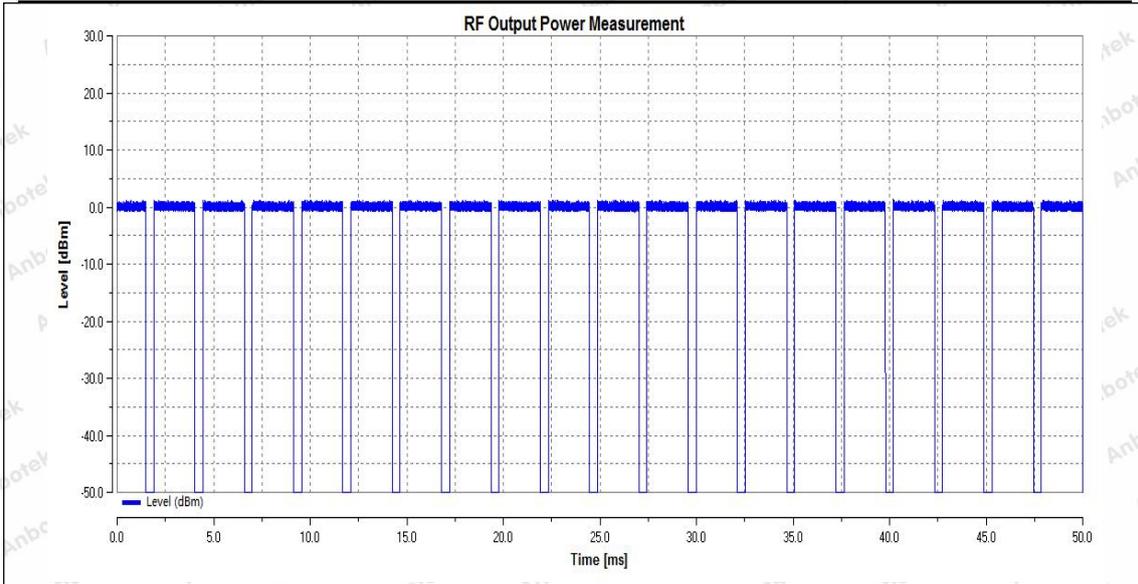


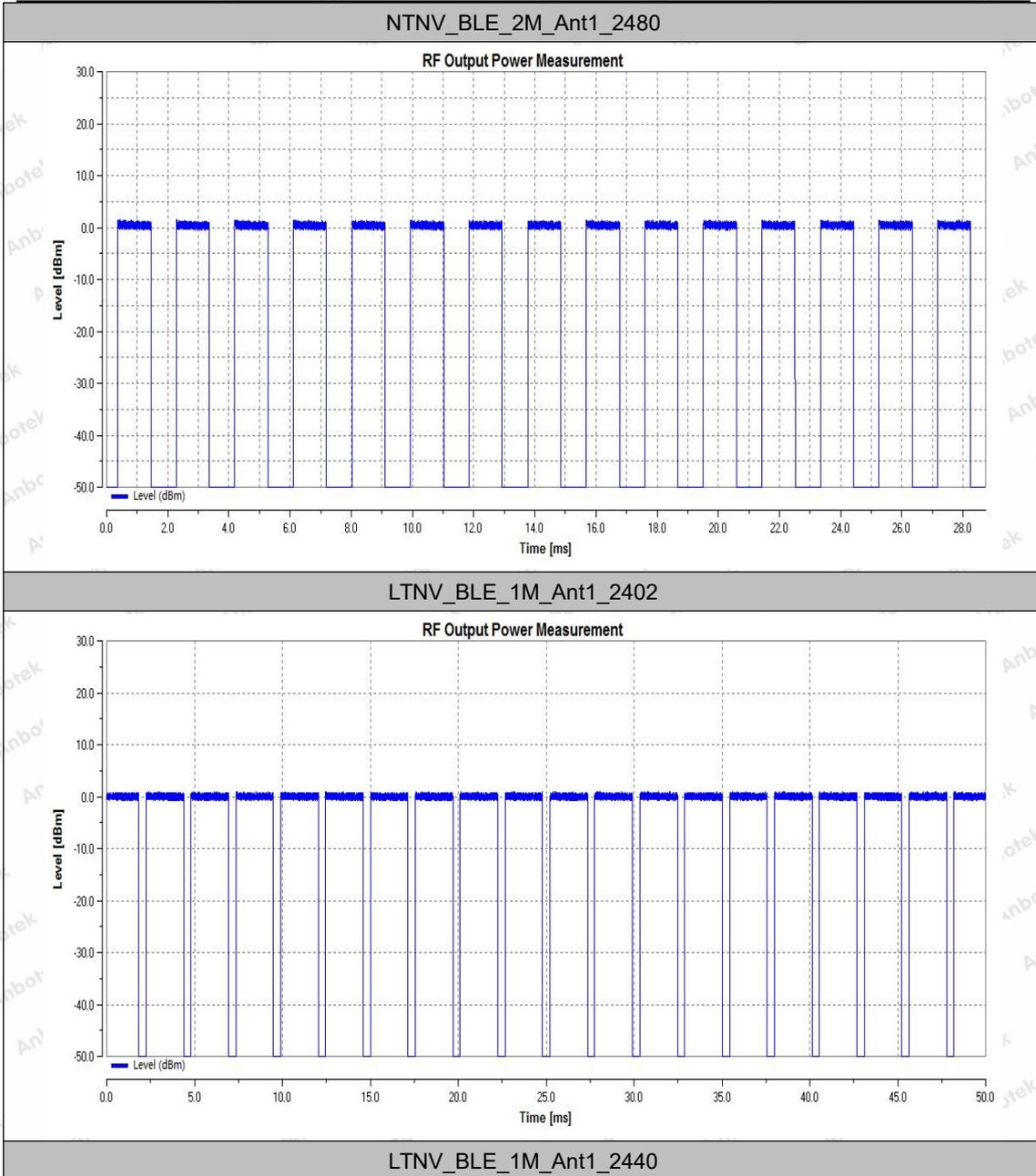
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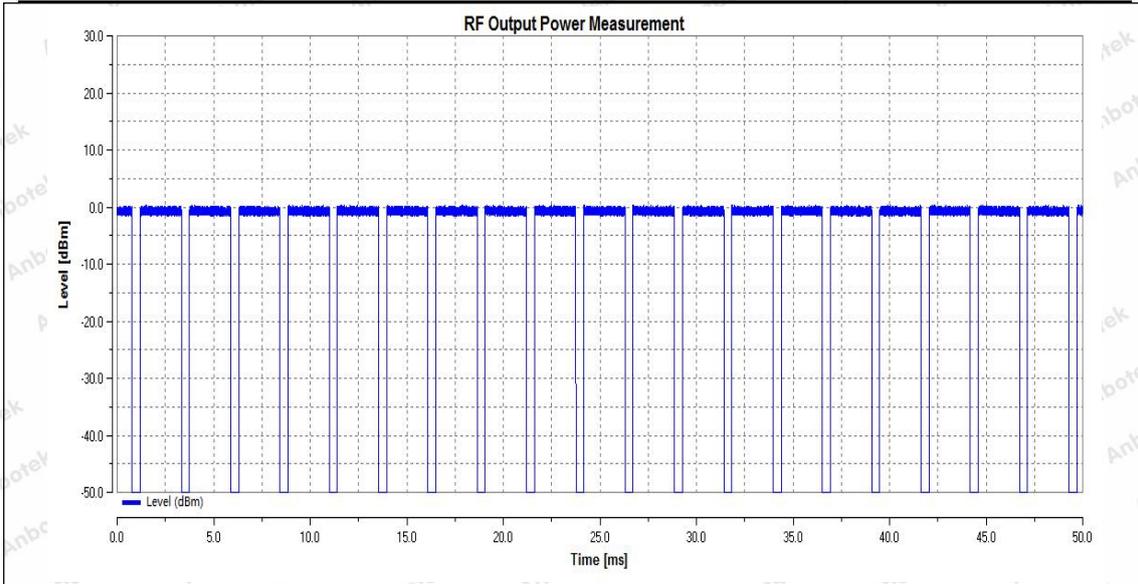
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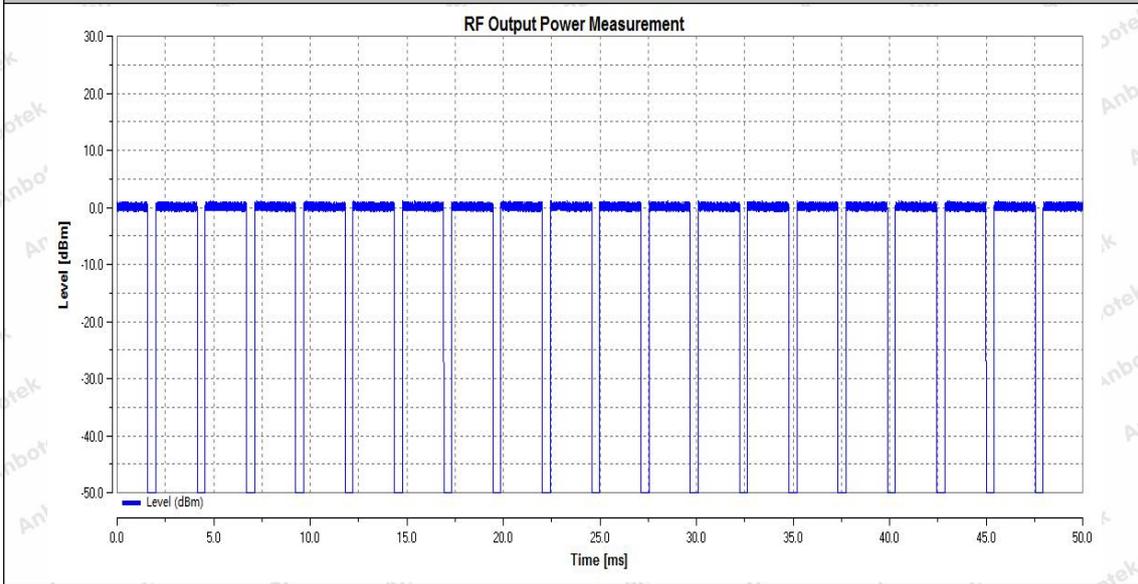


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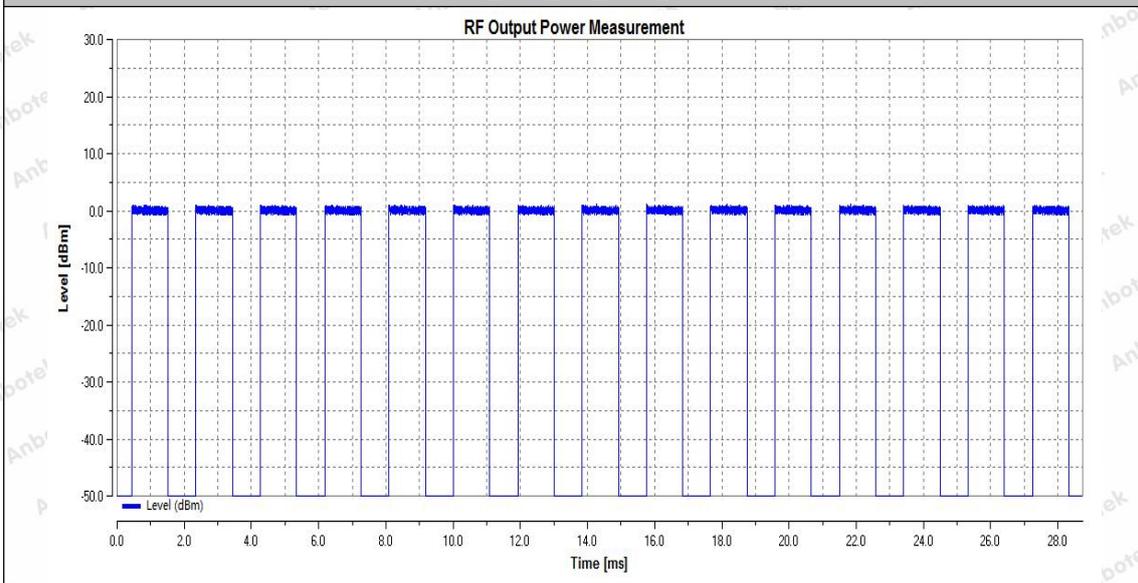




LTNV\_BLE\_1M\_Ant1\_2480



LTNV\_BLE\_2M\_Ant1\_2402

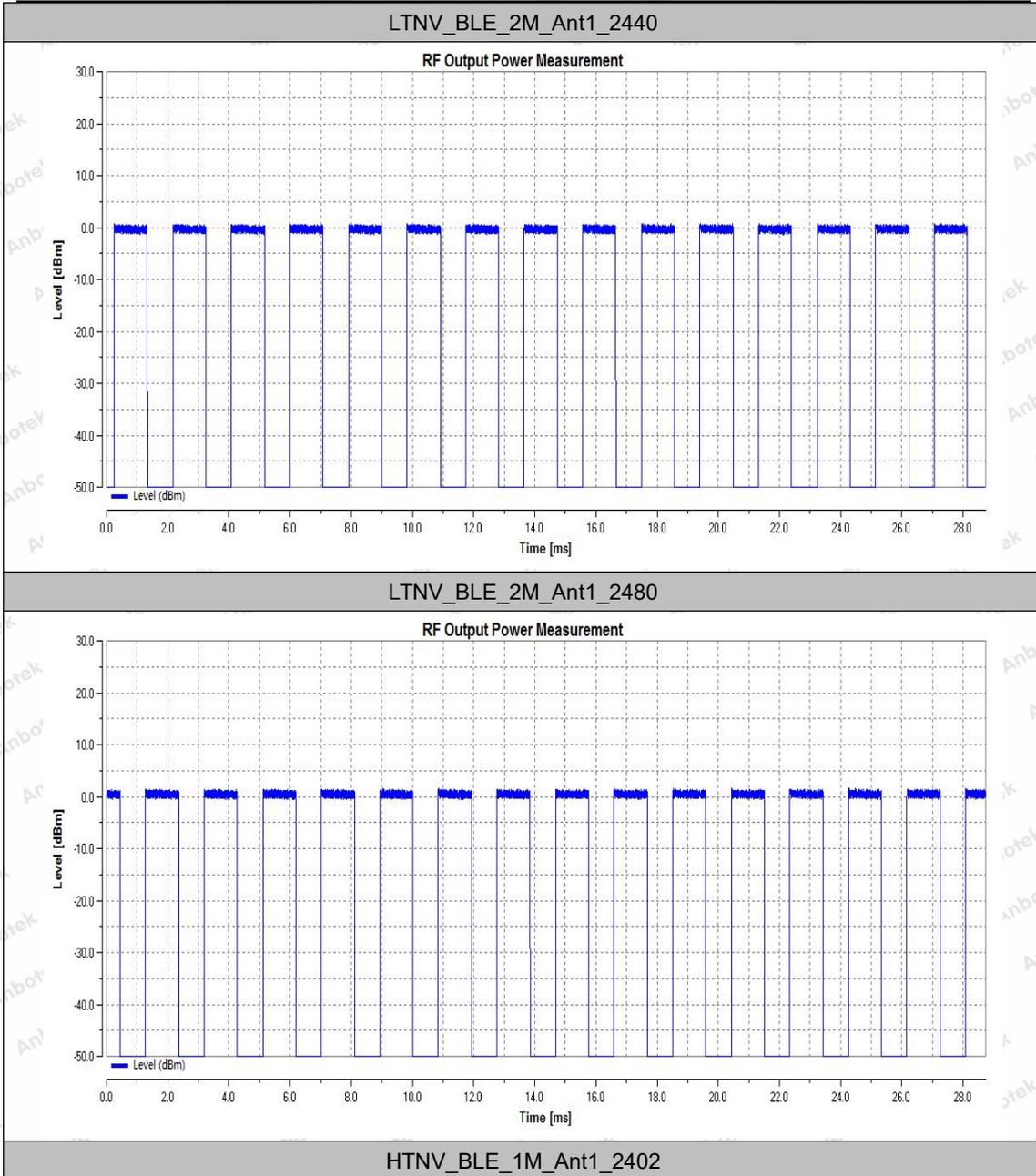


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HTNV\_BLE\_1M\_Ant1\_2402

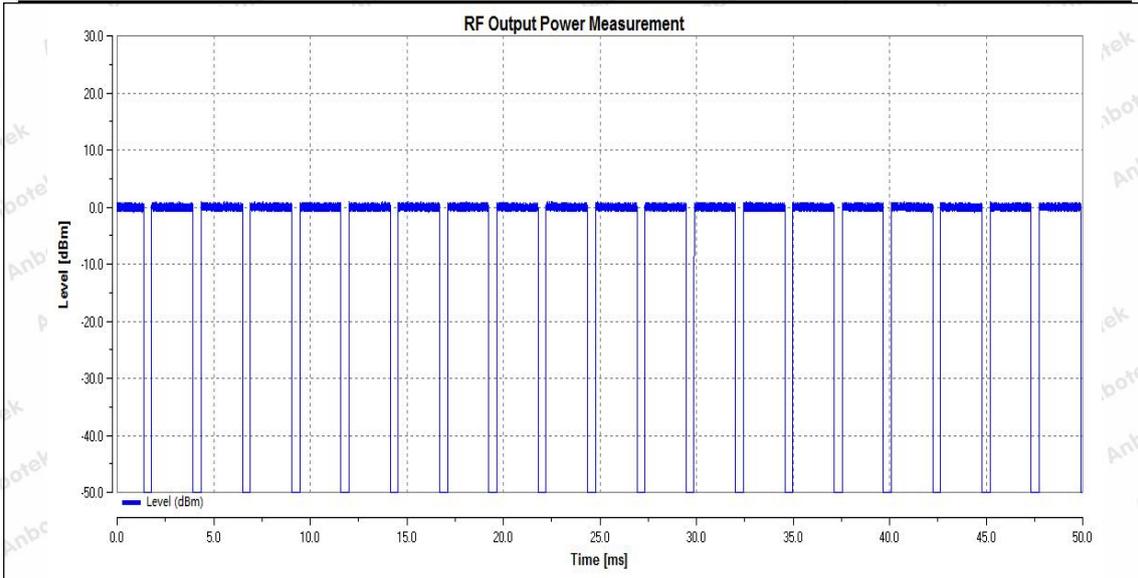
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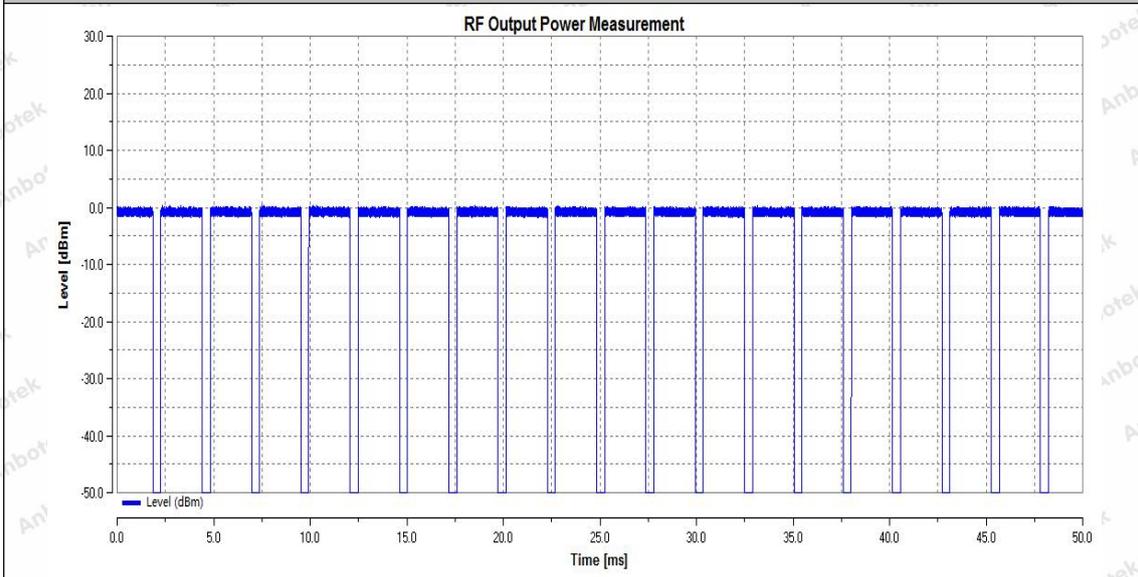


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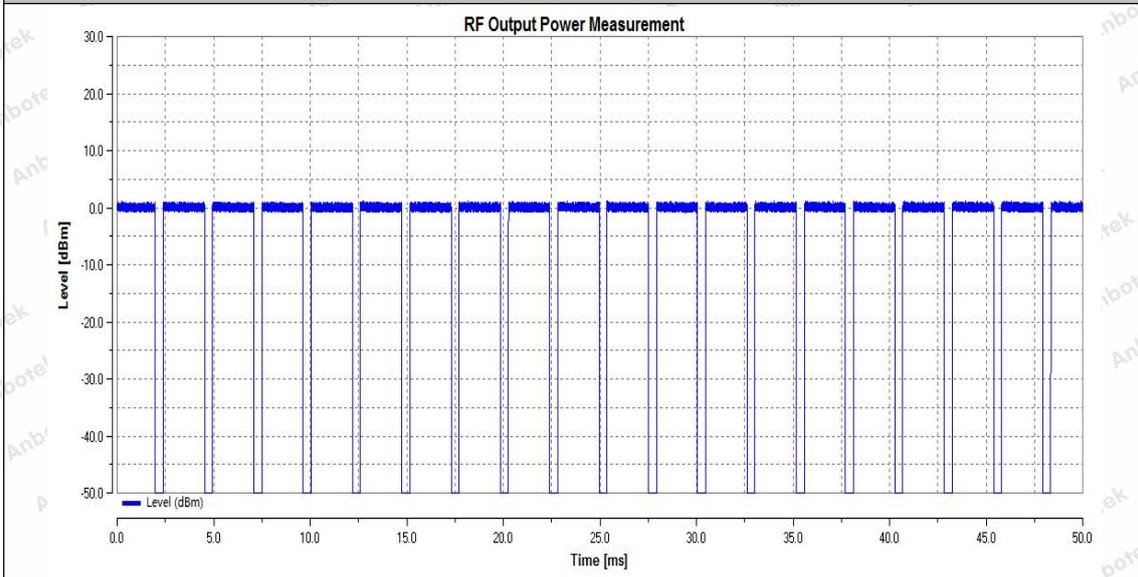




HTNV\_BLE\_1M\_Ant1\_2440



HTNV\_BLE\_1M\_Ant1\_2480

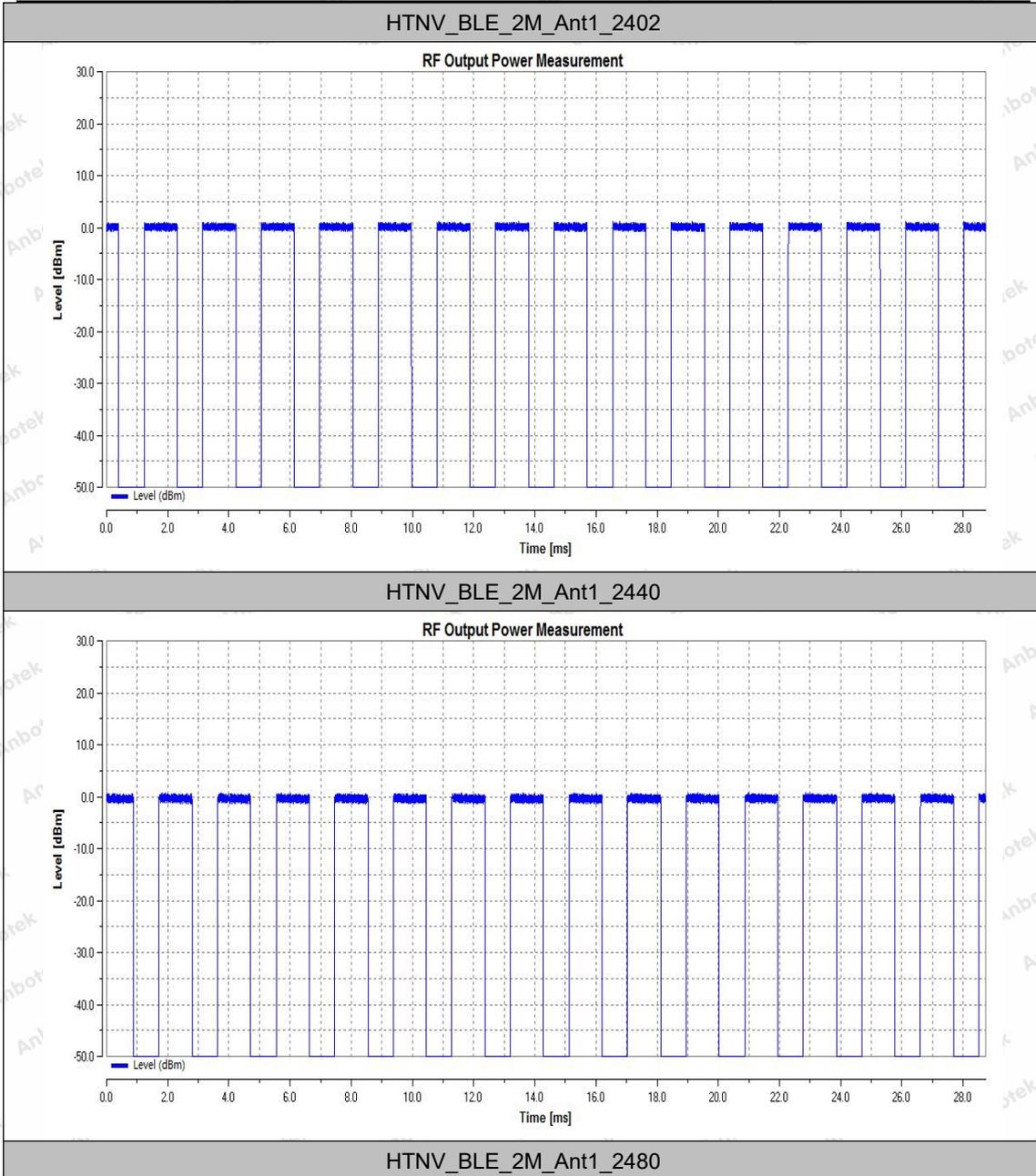


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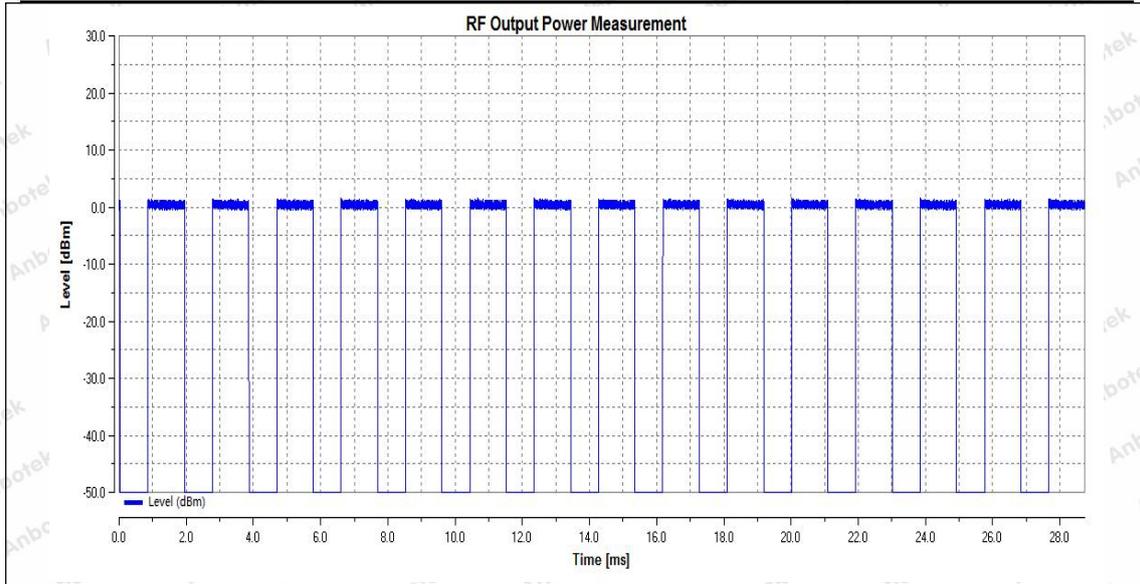


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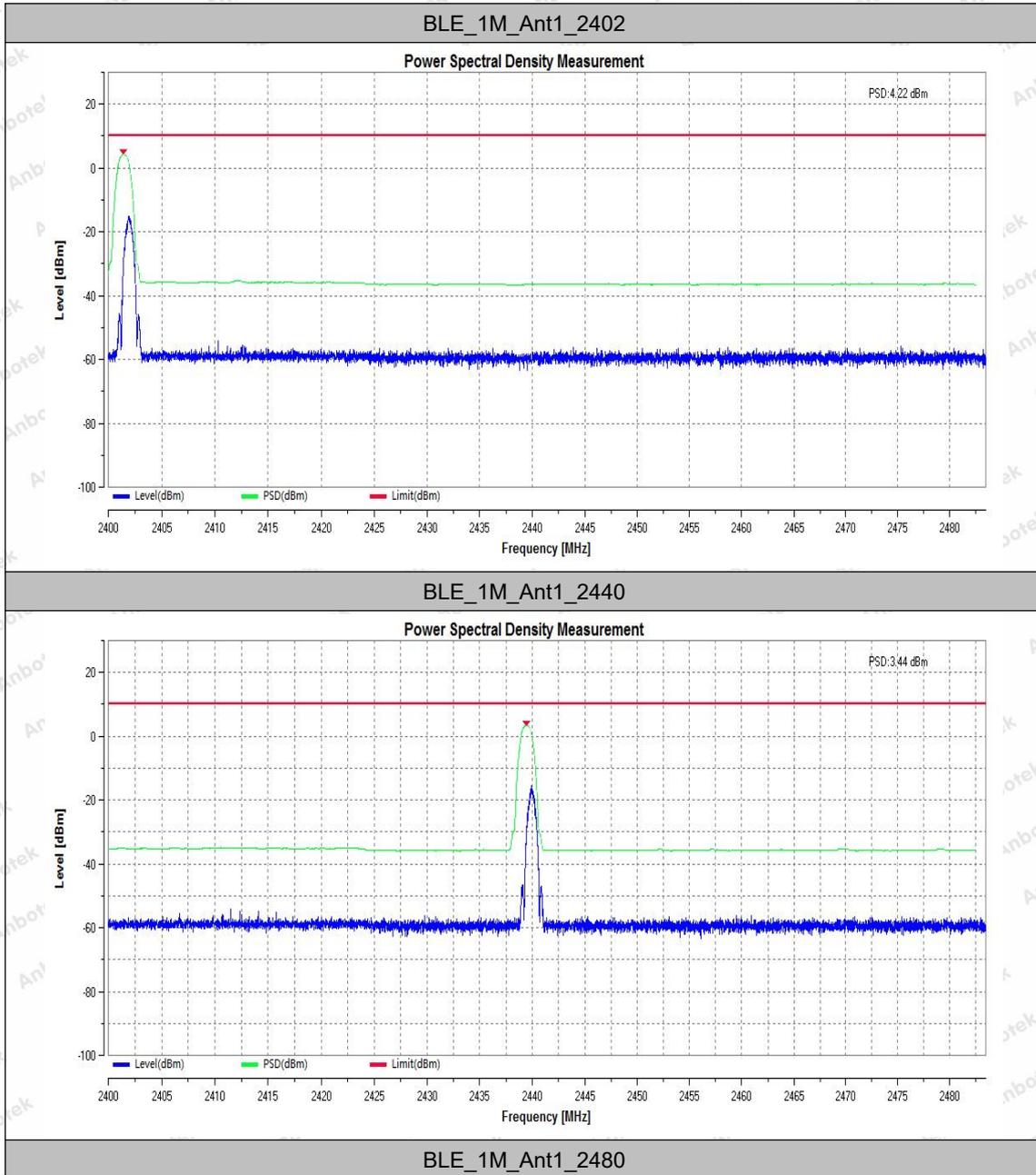
## Appendix B: Power Spectral Density

### Test Result

TestMode	Antenna	Frequency[MHz]	EIRP PSD[dBm/MHz]	Limit[dBm/MHz]	Verdict
BLE_1M	Ant1	2402	4.22	10	PASS
		2440	3.44	10	PASS
		2480	4.34	10	PASS
BLE_2M	Ant1	2402	3.29	10	PASS
		2440	2.89	10	PASS
		2480	3.67	10	PASS



## Test Graphs

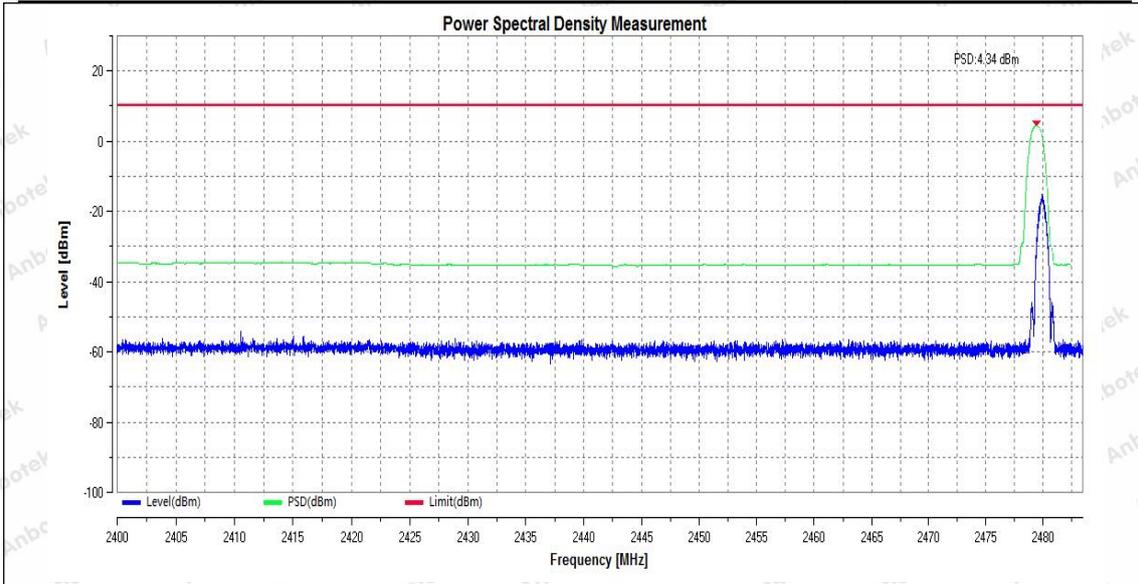


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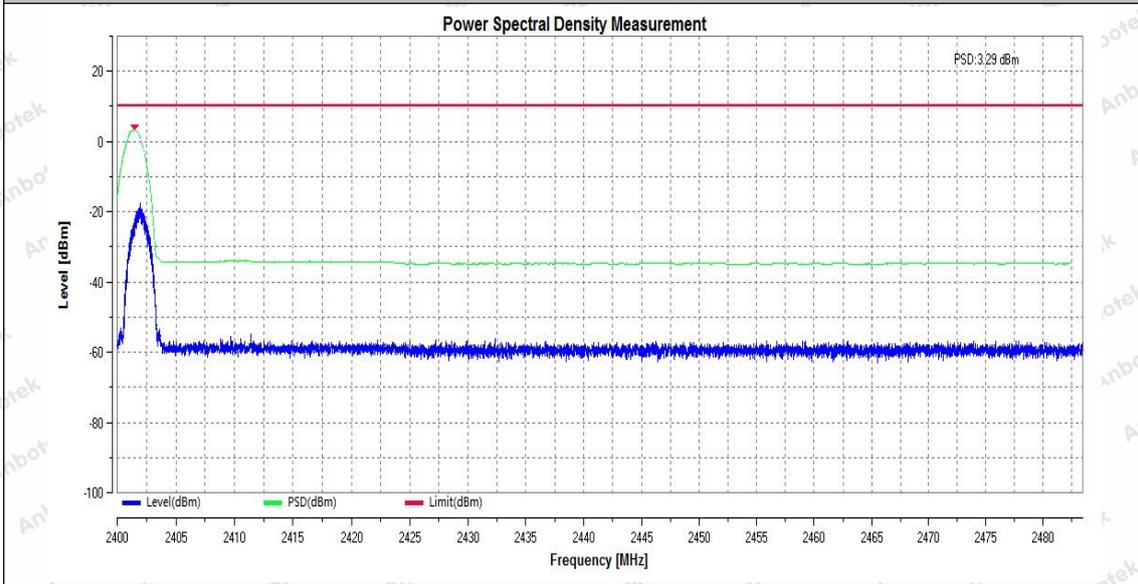
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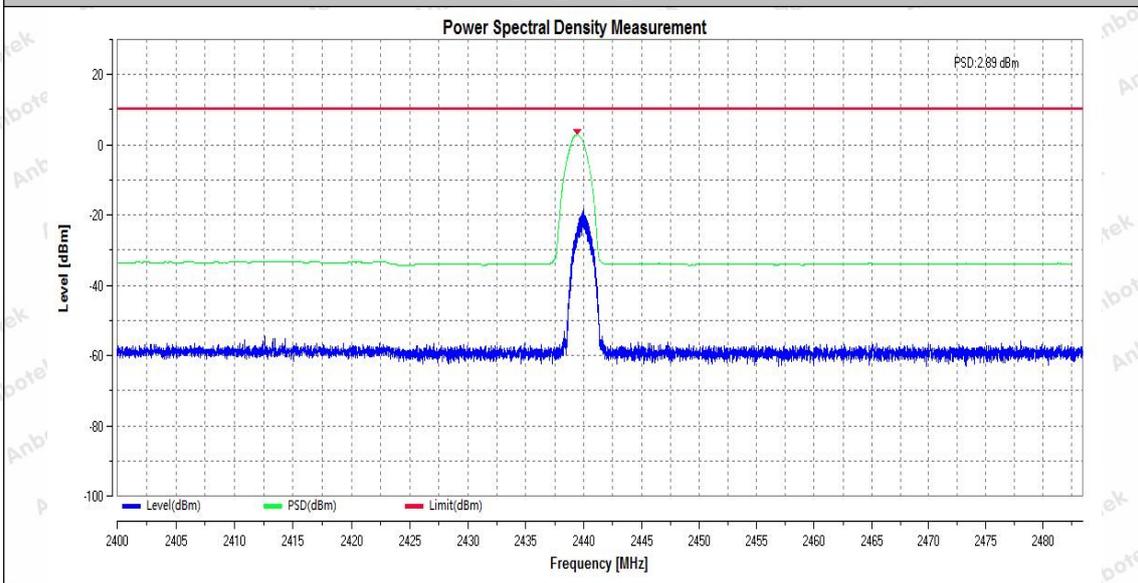




BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440



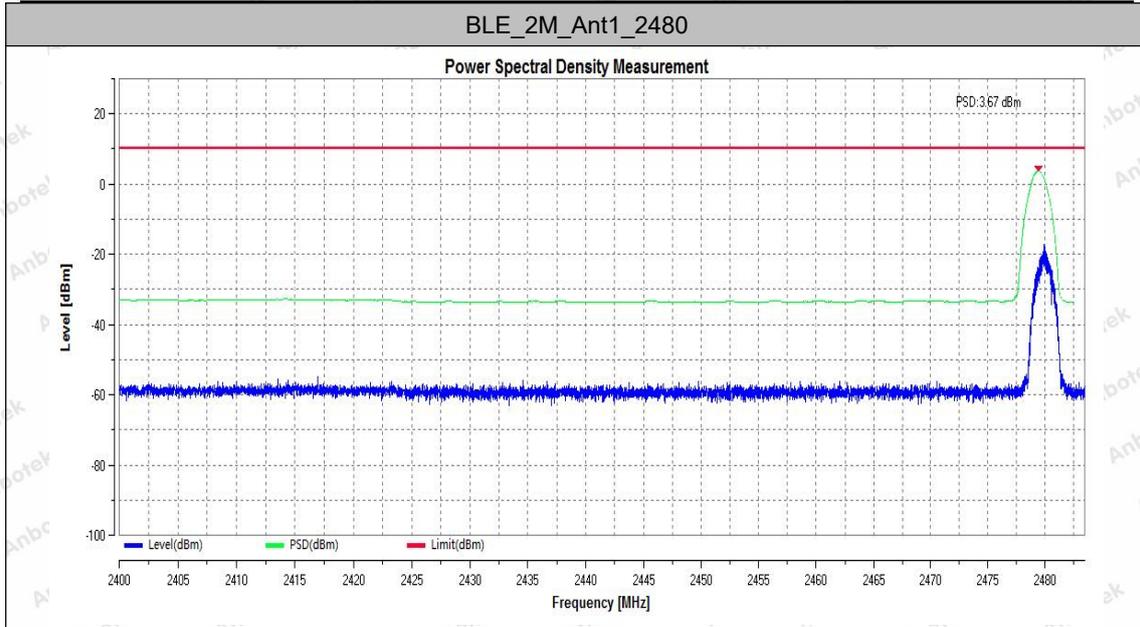
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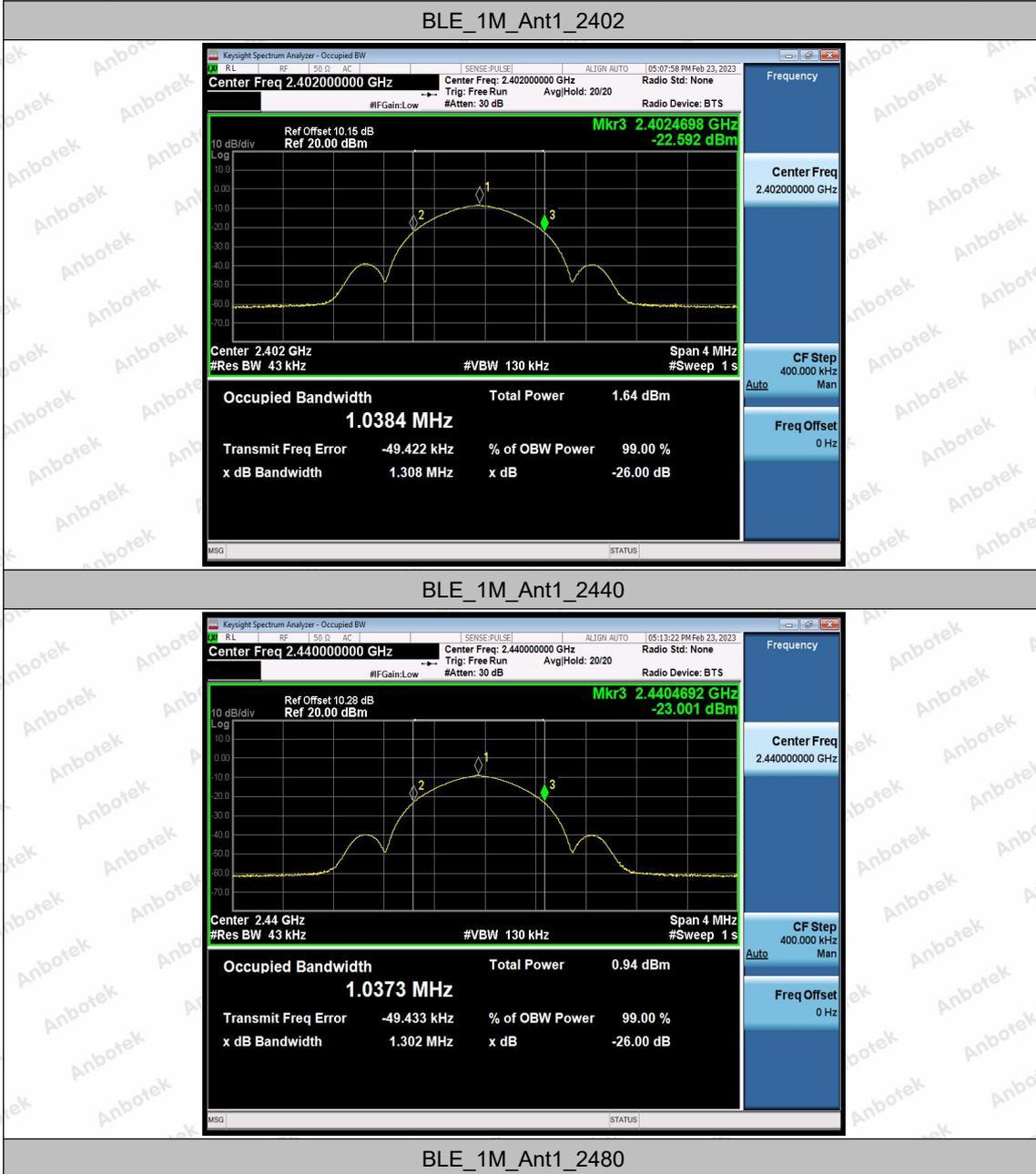
## Appendix C: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	OCB[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0384	2401.4314	2402.4698	2400 to 2483.5	PASS
		2440	1.0373	2439.4319	2440.4692	2400 to 2483.5	PASS
		2480	1.0384	2479.4295	2480.4679	2400 to 2483.5	PASS
BLE_2M	Ant1	2402	2.0456	2400.9278	2402.9734	2400 to 2483.5	PASS
		2440	2.0453	2438.9278	2440.9731	2400 to 2483.5	PASS
		2480	2.0451	2478.9259	2480.9710	2400 to 2483.5	PASS



## Test Graphs



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

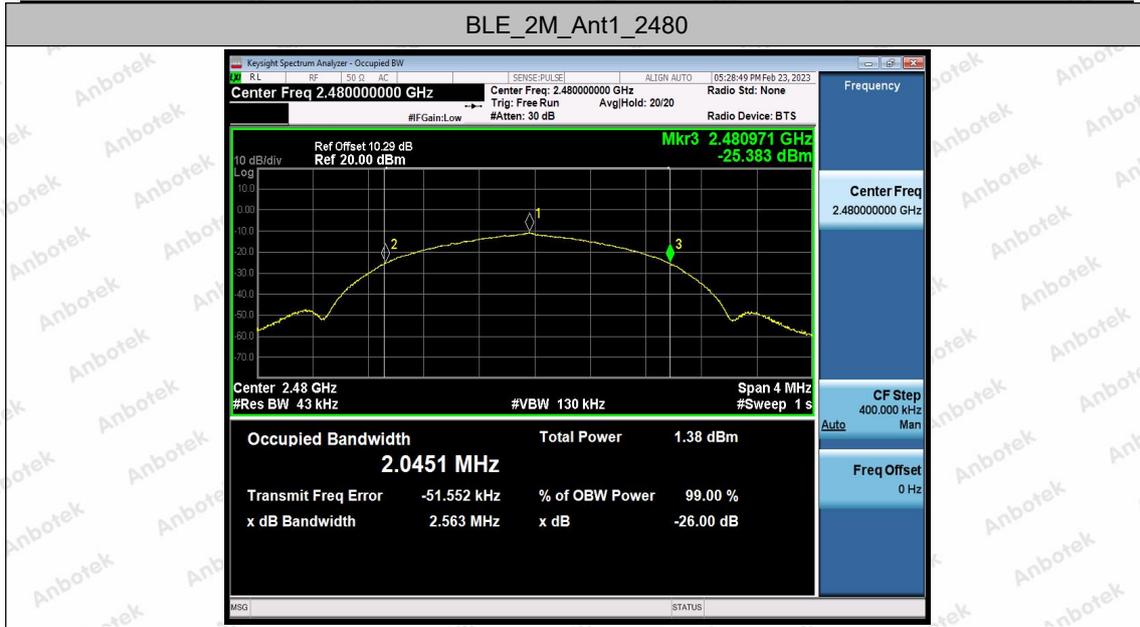


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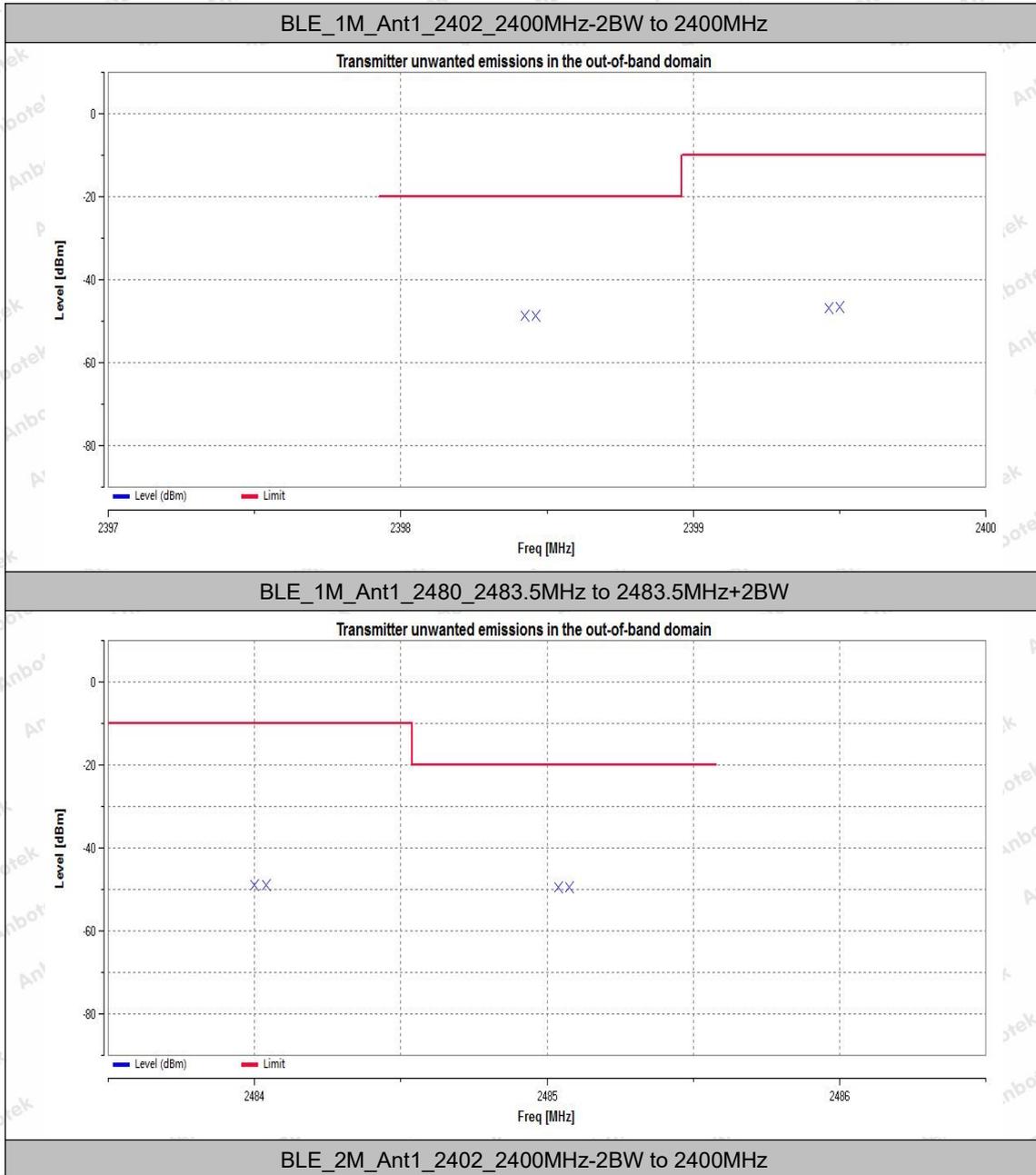
## Appendix D: Transmitter Unwanted Emissions In The Out-Of-BandDomain

### Test Result

TestMode	Antenna	Frequency[MHz]	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2398.4232	-48.79	-20.00	PASS
			2398.4616	-48.75	-20.00	PASS
			2399.4616	-46.80	-10.00	PASS
			2399.5	-46.55	-10.00	PASS
		2480	2484	-48.93	-10.00	PASS
			2484.0384	-48.95	-10.00	PASS
			2485.0384	-49.45	-20.00	PASS
BLE_2M	Ant1	2402	2485.0768	-49.46	-20.00	PASS
			2396.4088	-50.13	-20.00	PASS
			2396.4544	-50.11	-20.00	PASS
			2397.4544	-49.47	-20.00	PASS
			2398.4544	-48.56	-10.00	PASS
			2398.5	-48.49	-10.00	PASS
		2480	2399.5	-42.24	-10.00	PASS
			2484	-48.80	-10.00	PASS
			2485	-49.40	-10.00	PASS
			2485.0451	-49.44	-10.00	PASS
			2486.0451	-49.85	-20.00	PASS
			2487.0451	-50.17	-20.00	PASS
			2487.0902	-50.17	-20.00	PASS



## Test Graphs

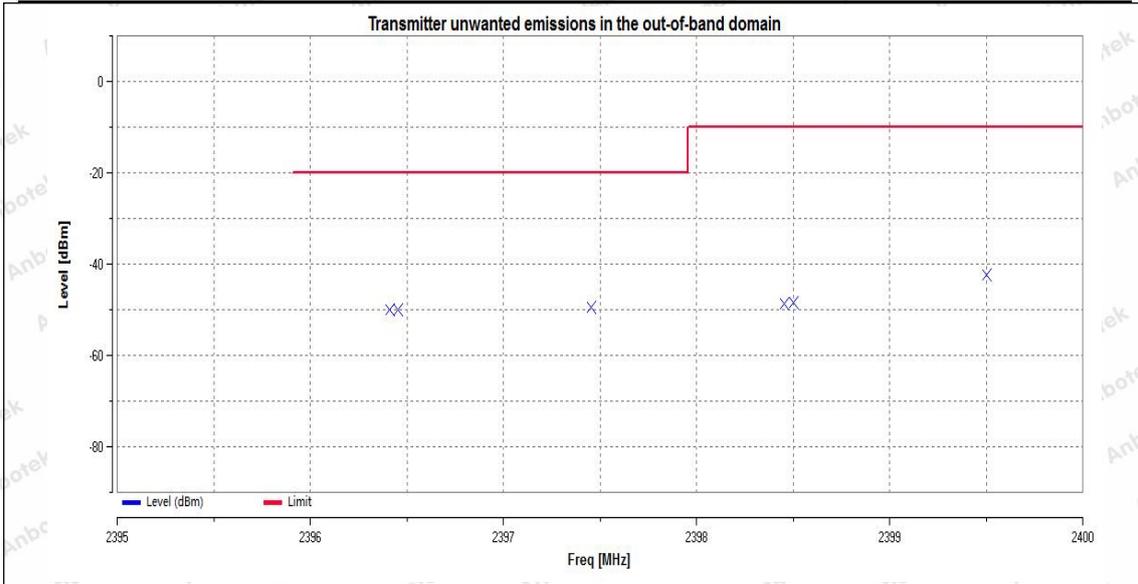


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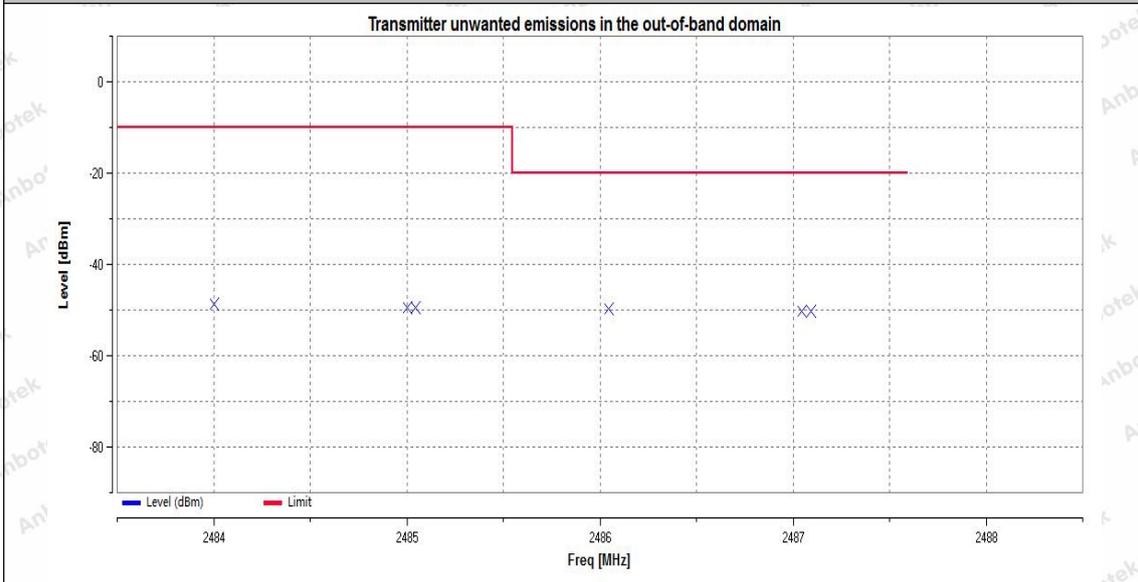
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### BLE\_2M\_Ant1\_2480\_2483.5MHz to 2483.5MHz+2BW

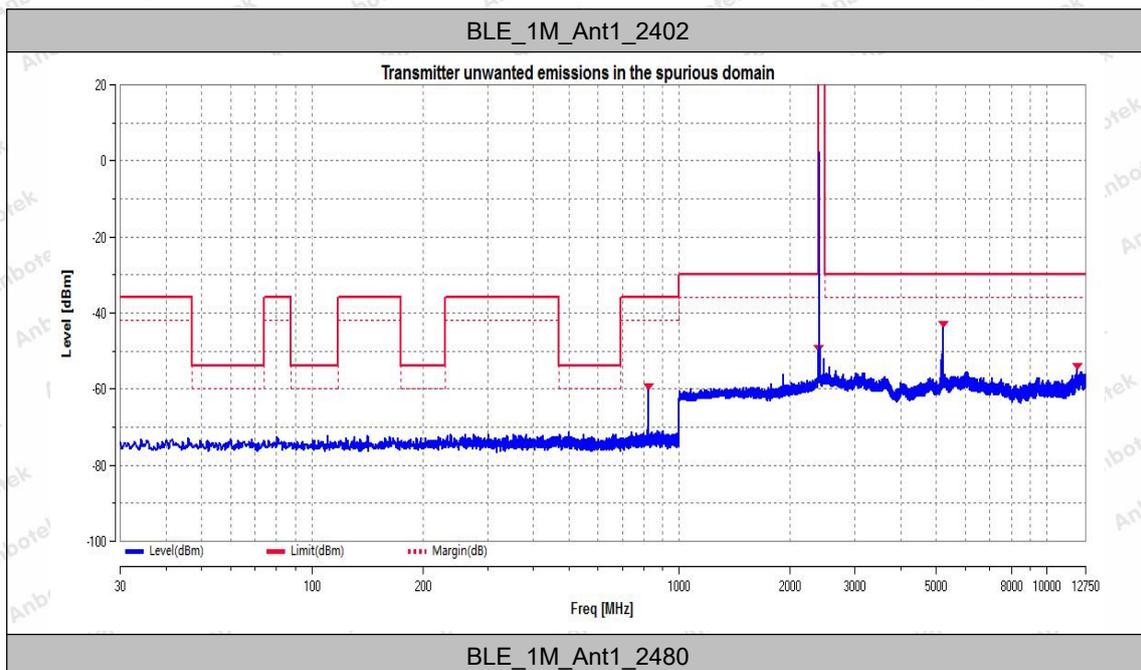


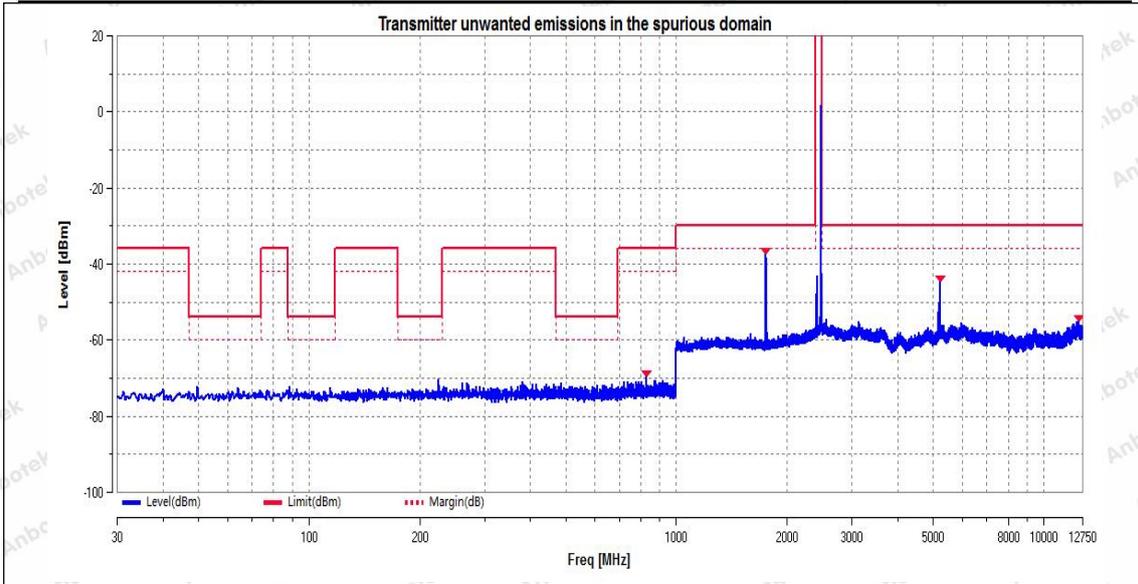
## Appendix E: Transmitter unwanted emissions in the spurious domain

### Test Result-Pre-scan

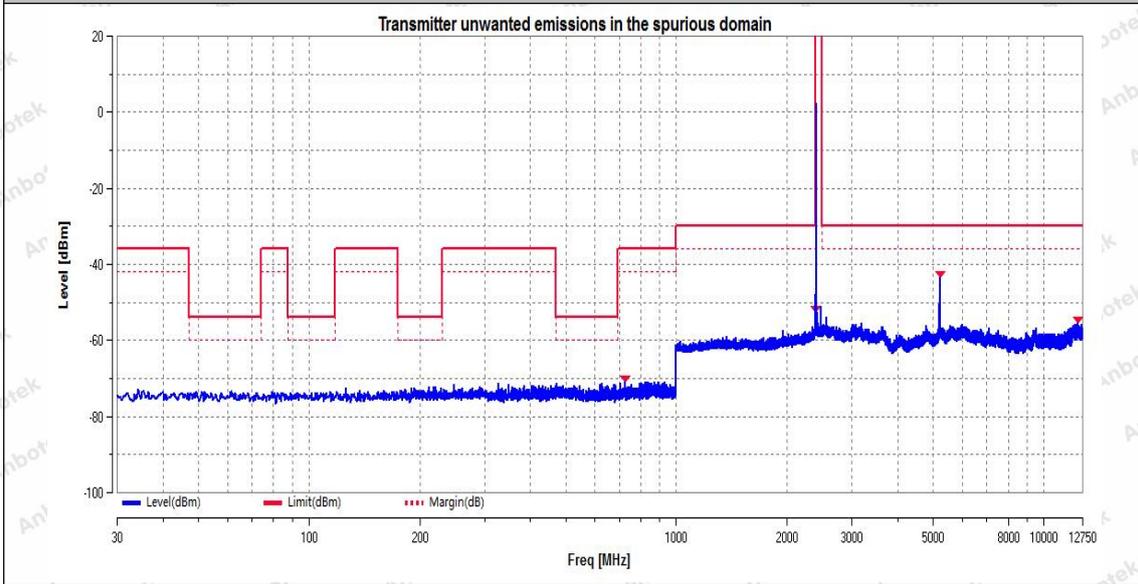
TestMode	Antenna	Frequency[MHz]	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	824.43	-60.12	-36	PASS
			2396.67	-49.98	-30	PASS
			5222.1	-43.84	-30	PASS
			12077.93	-54.9	-30	PASS
		2480	827.02	-69.83	-36	PASS
			1752.33	-37.55	-30	PASS
			5213.7	-44.78	-30	PASS
			12482.35	-55.21	-30	PASS
BLE_2M	Ant1	2402	724.2	-70.79	-36	PASS
			2395.67	-52.52	-30	PASS
			5217.9	-43.59	-30	PASS
			12391.66	-55.35	-30	PASS
		2480	882.31	-70.31	-36	PASS
			2489.33	-52.78	-30	PASS
			5226.6	-47.44	-30	PASS
			12383.74	-54.81	-30	PASS

### Test Graphs-Pre-scan

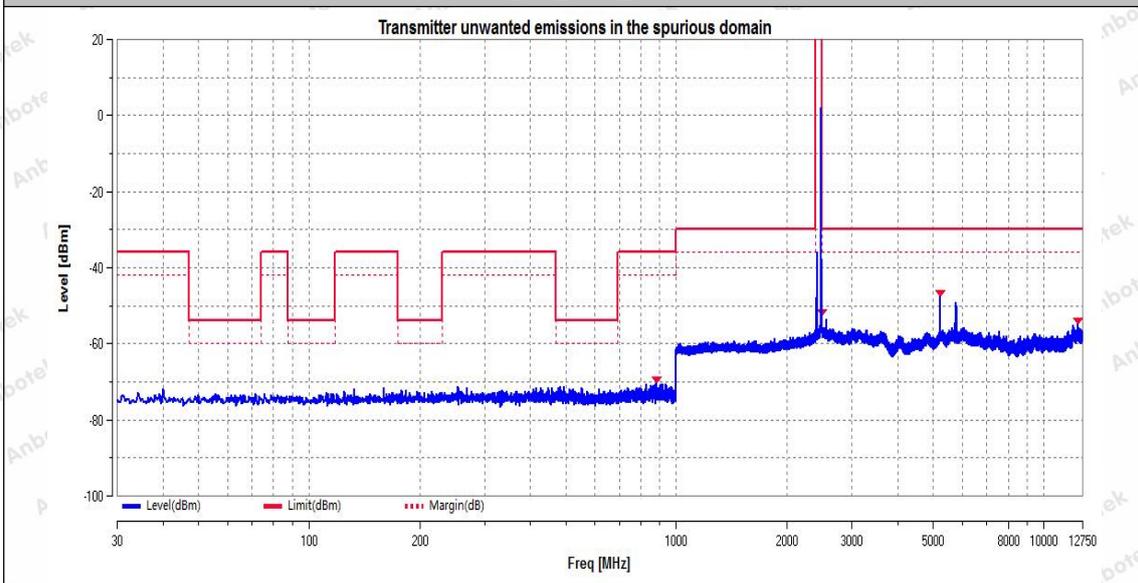




BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2480

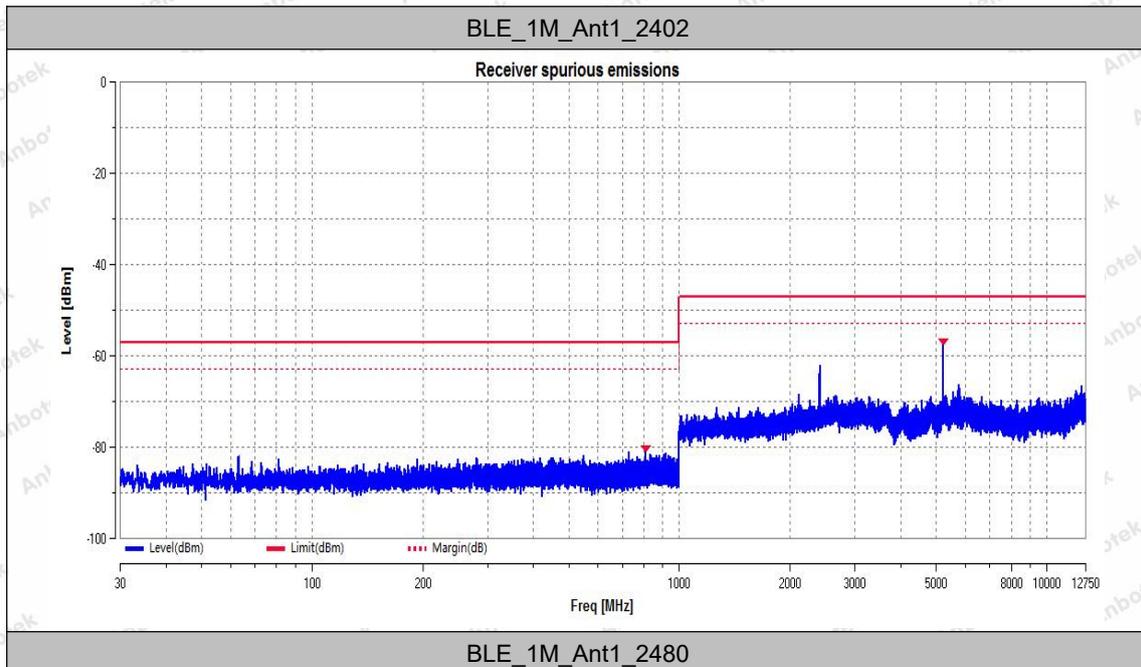


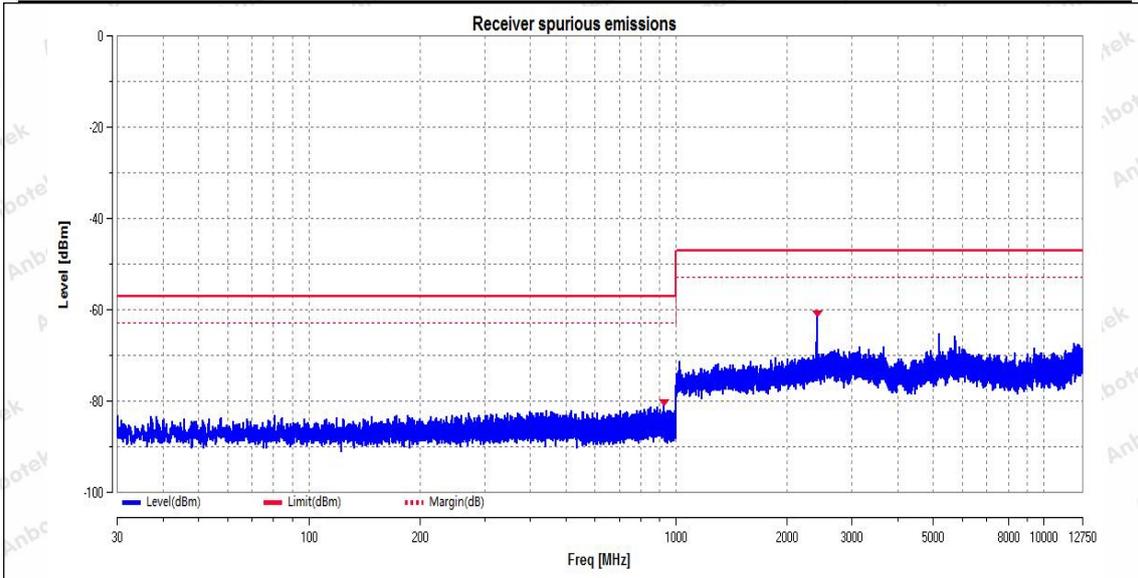
## Appendix F: Receiver spurious emissions

### Test Result-Pre-scan

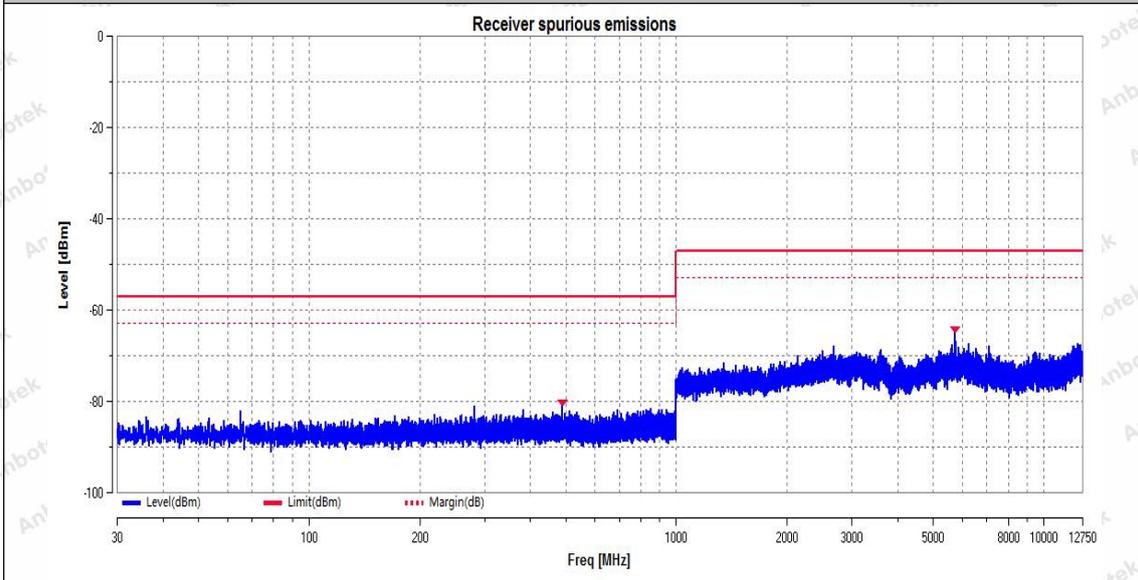
TestMode	Antenna	Frequency[MHz]	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	809.4	-81.13	-57.00	PASS
			5219.03	-57.74	-47.00	PASS
		2480	925.8	-81.02	-57.00	PASS
			2415.48	-61.69	-47.00	PASS
BLE_2M	Ant1	2402	488.96	-81.08	-57.00	PASS
			5744.26	-65.03	-47.00	PASS
		2480	839.9	-80.64	-57.00	PASS
			2413.53	-62.41	-47.00	PASS

### Test Graphs-Pre-scan

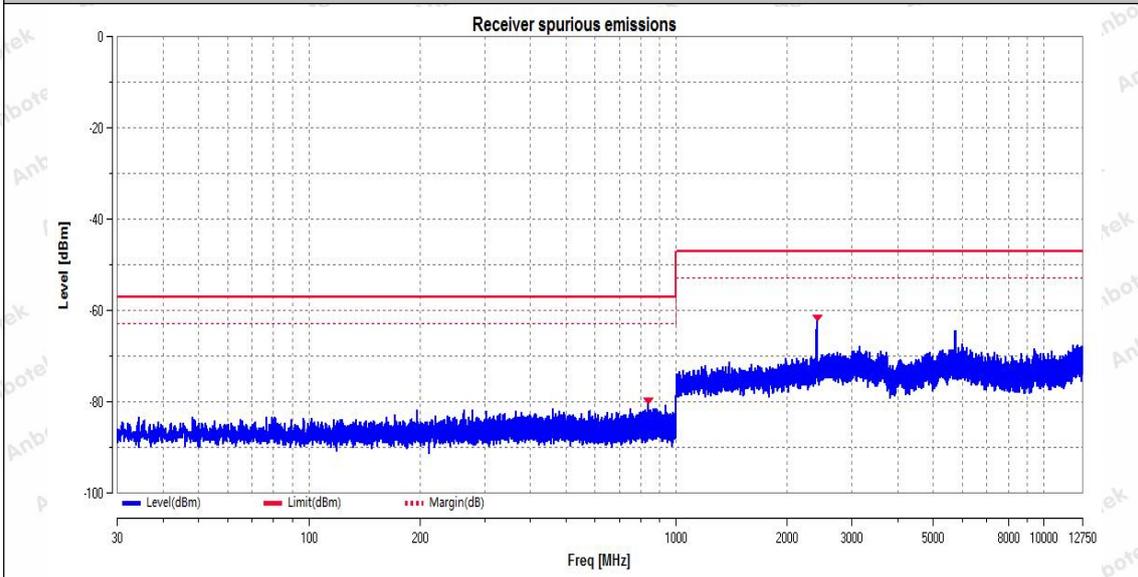




BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2480



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