

## Appendix Test Data

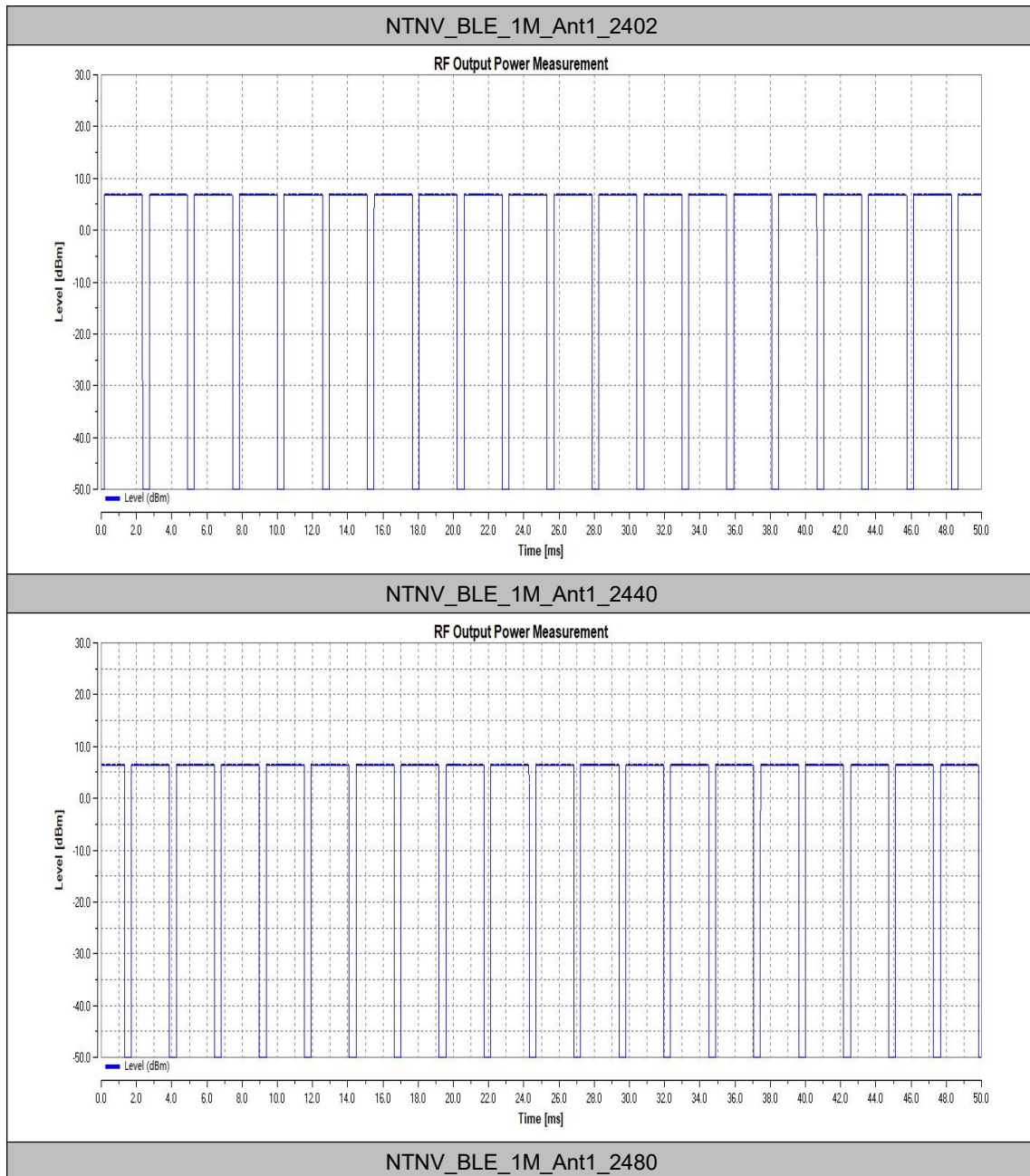
Report No:	1812C40196912504W	Test Sample NO:	1-2-2
Start Test Date:	2025.2.10	Finish Test Date:	2025.2.10
Test Engineer:	<i>dylan. Ma</i>	Auditor:	<i>Justin Feng</i>
Temperature:	19.6°C	Relative Humidity:	40%
Pressure:	101 kPa		

## 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	6.42	2.24	8.66	20	PASS
			2440	5.98	2.24	8.22	20	PASS
			2480	5.38	2.24	7.62	20	PASS
	BLE_2M	Ant1	2402	6.03	2.24	8.27	20	PASS
			2440	5.65	2.24	7.89	20	PASS
			2480	5.07	2.24	7.31	20	PASS
LTVN	BLE_1M	Ant1	2402	6.41	2.24	8.65	20	PASS
			2440	5.98	2.24	8.22	20	PASS
			2480	5.39	2.24	7.63	20	PASS
	BLE_2M	Ant1	2402	6.04	2.24	8.28	20	PASS
			2440	5.65	2.24	7.89	20	PASS
			2480	5.07	2.24	7.31	20	PASS
HTNV	BLE_1M	Ant1	2402	6.41	2.24	8.65	20	PASS
			2440	5.97	2.24	8.21	20	PASS
			2480	5.38	2.24	7.62	20	PASS
	BLE_2M	Ant1	2402	6.04	2.24	8.28	20	PASS
			2440	5.65	2.24	7.89	20	PASS
			2480	5.07	2.24	7.31	20	PASS

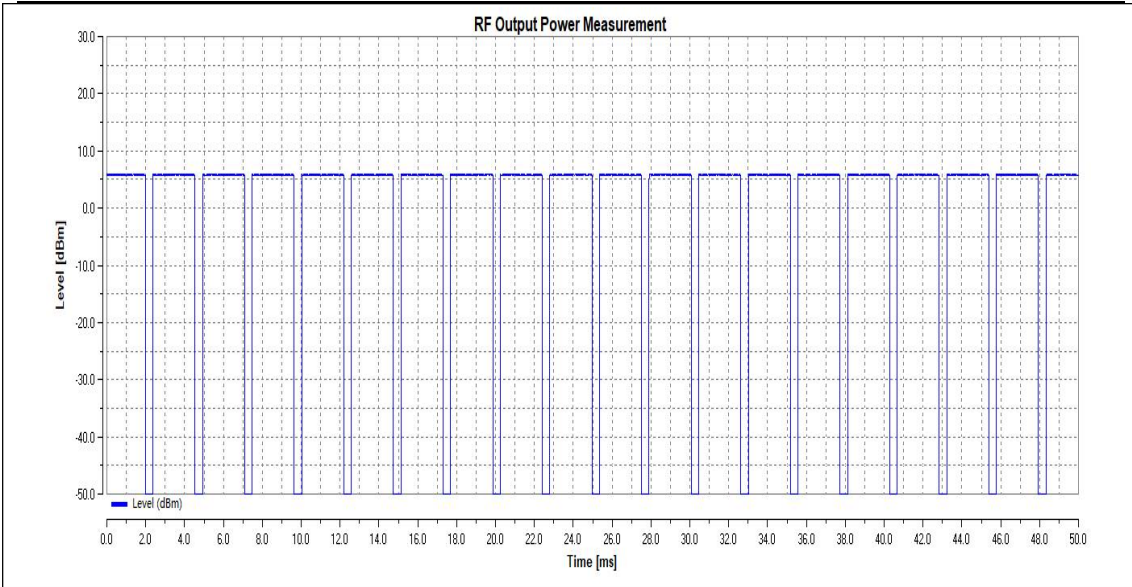
### Test Graphs



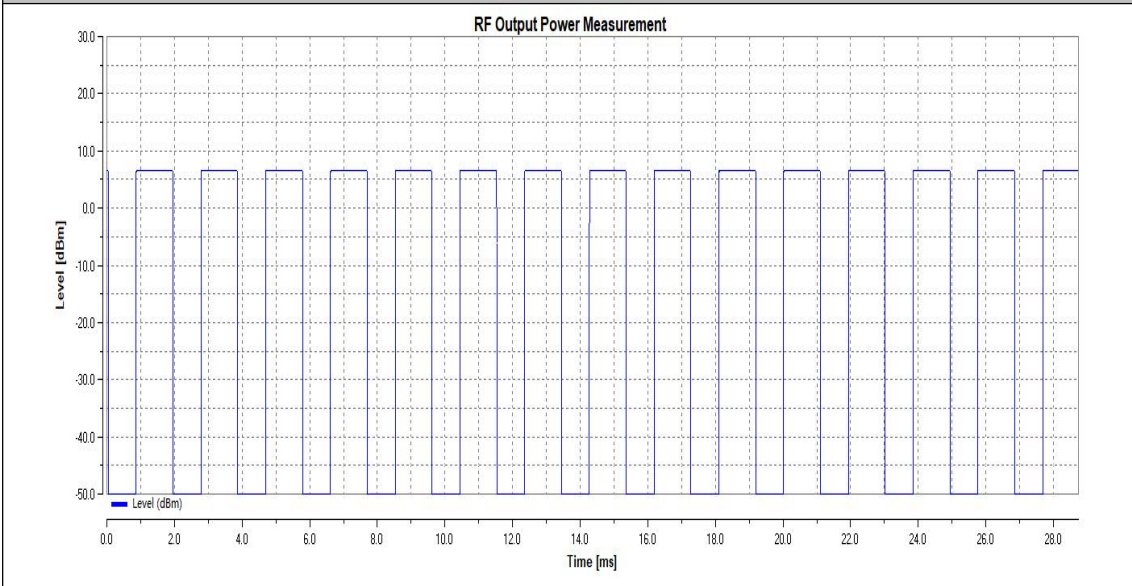
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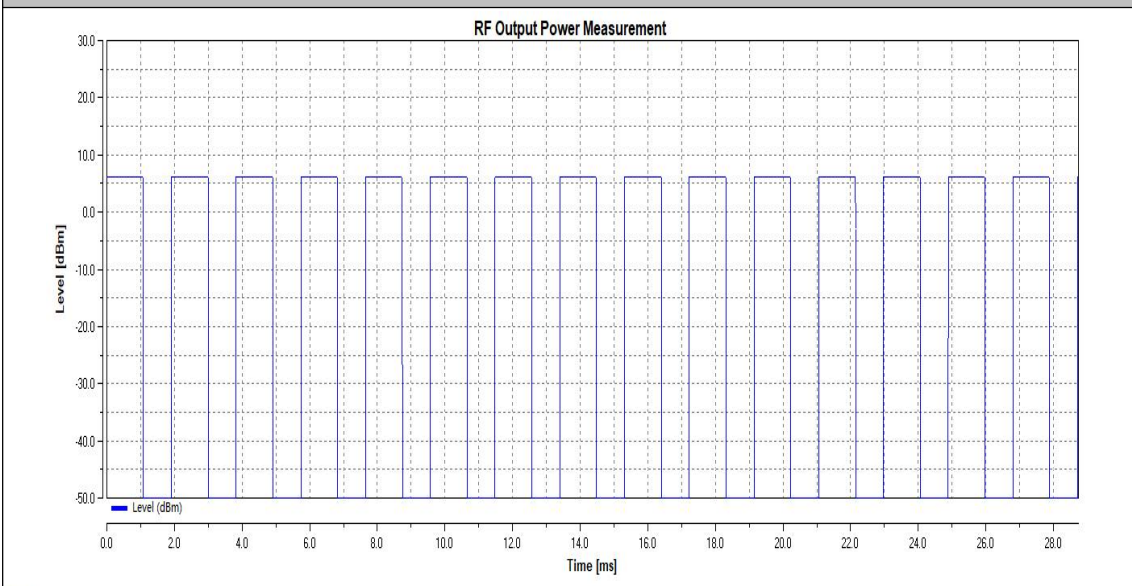
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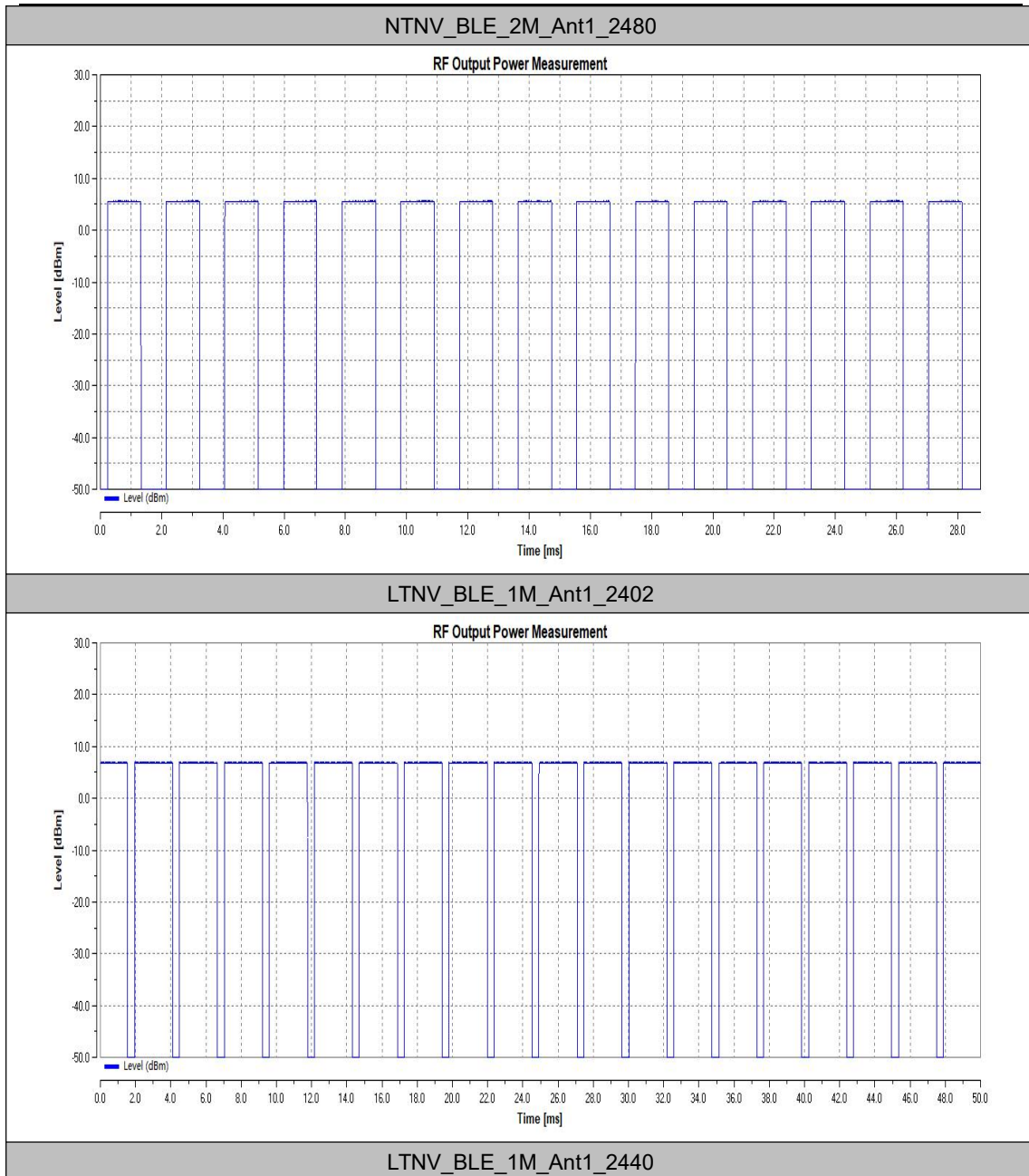


NTNV\_BLE\_2M\_Ant1\_2402



NTNV\_BLE\_2M\_Ant1\_2440

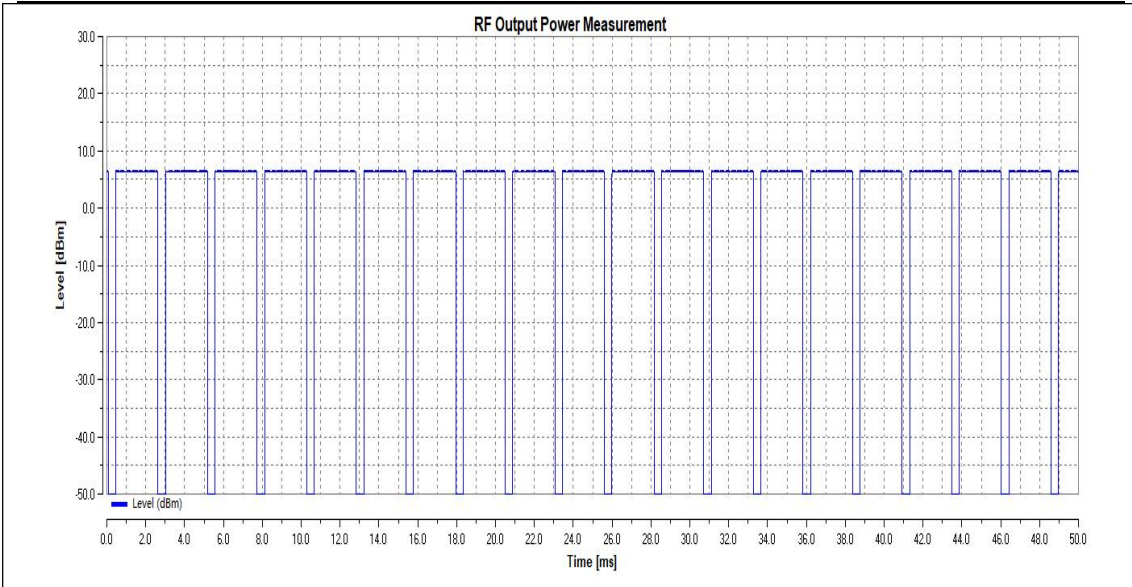




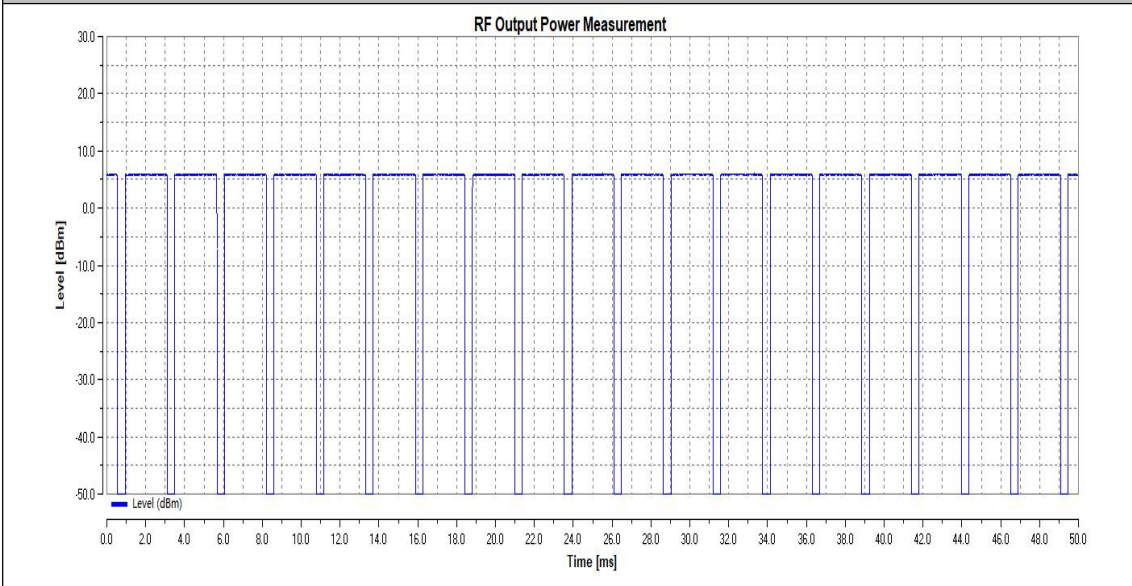
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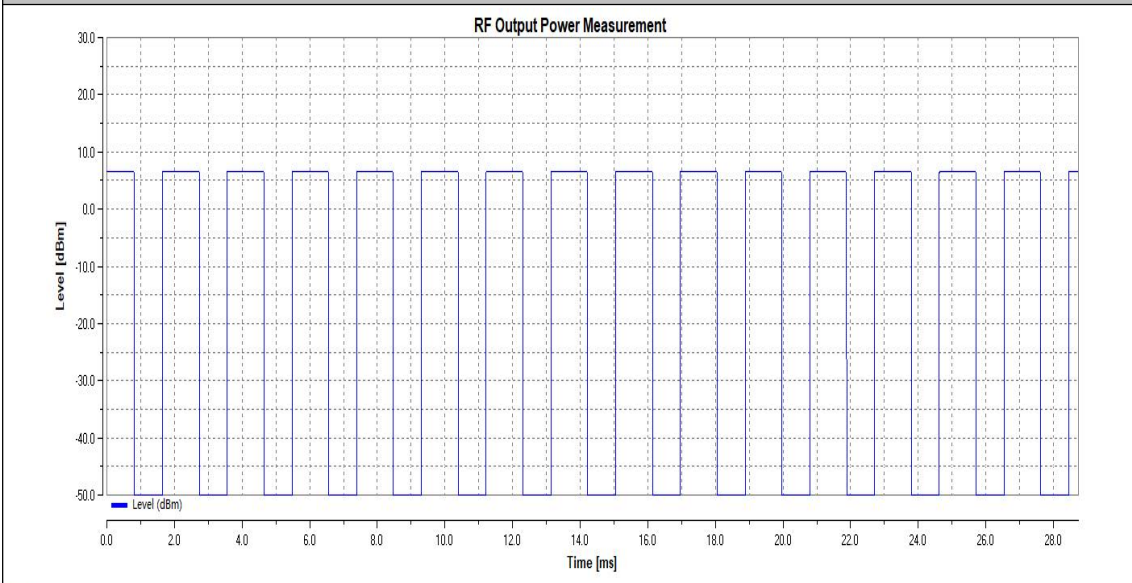
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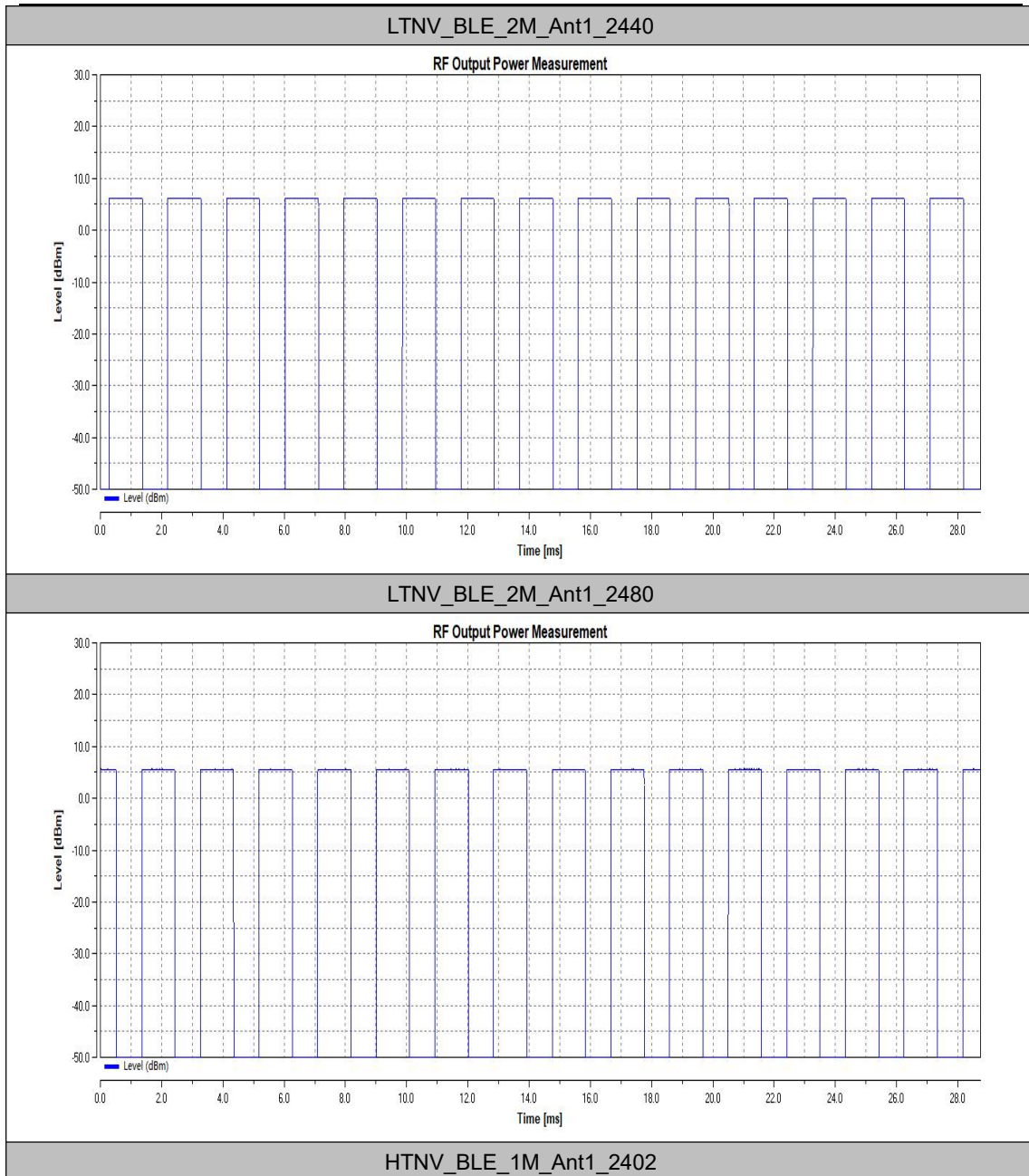


LTNV\_BLE\_1M\_Ant1\_2480



LTNV\_BLE\_2M\_Ant1\_2402

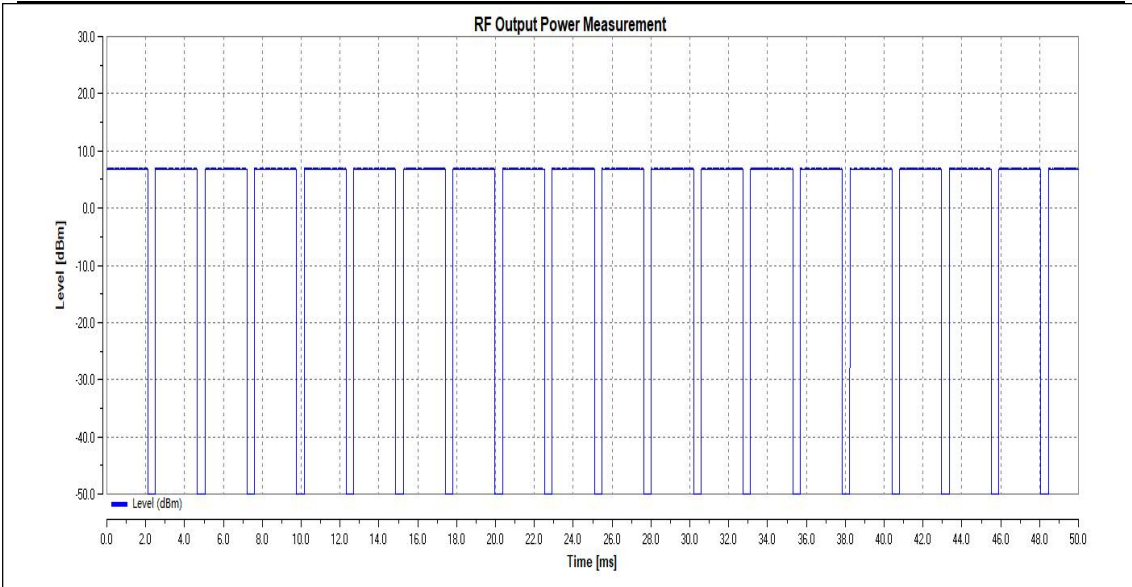




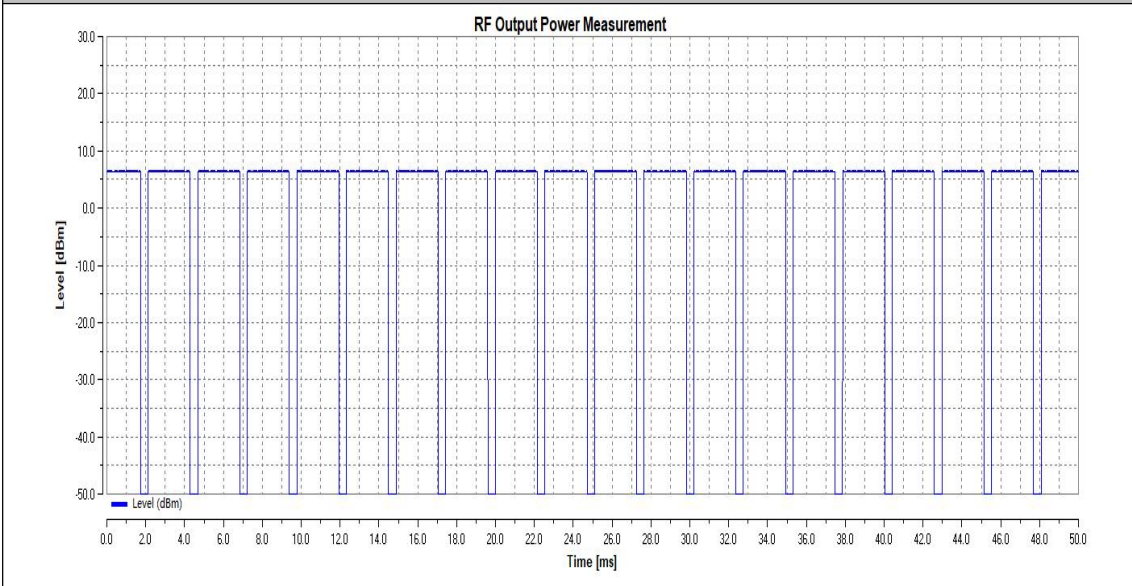
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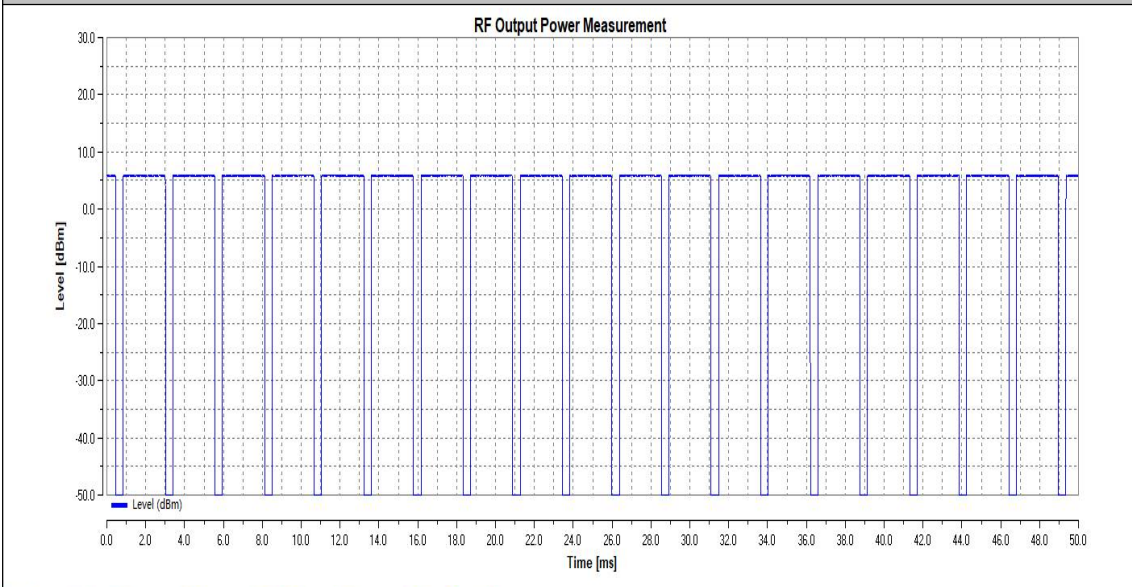
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HTNV\_BLE\_1M\_Ant1\_2440



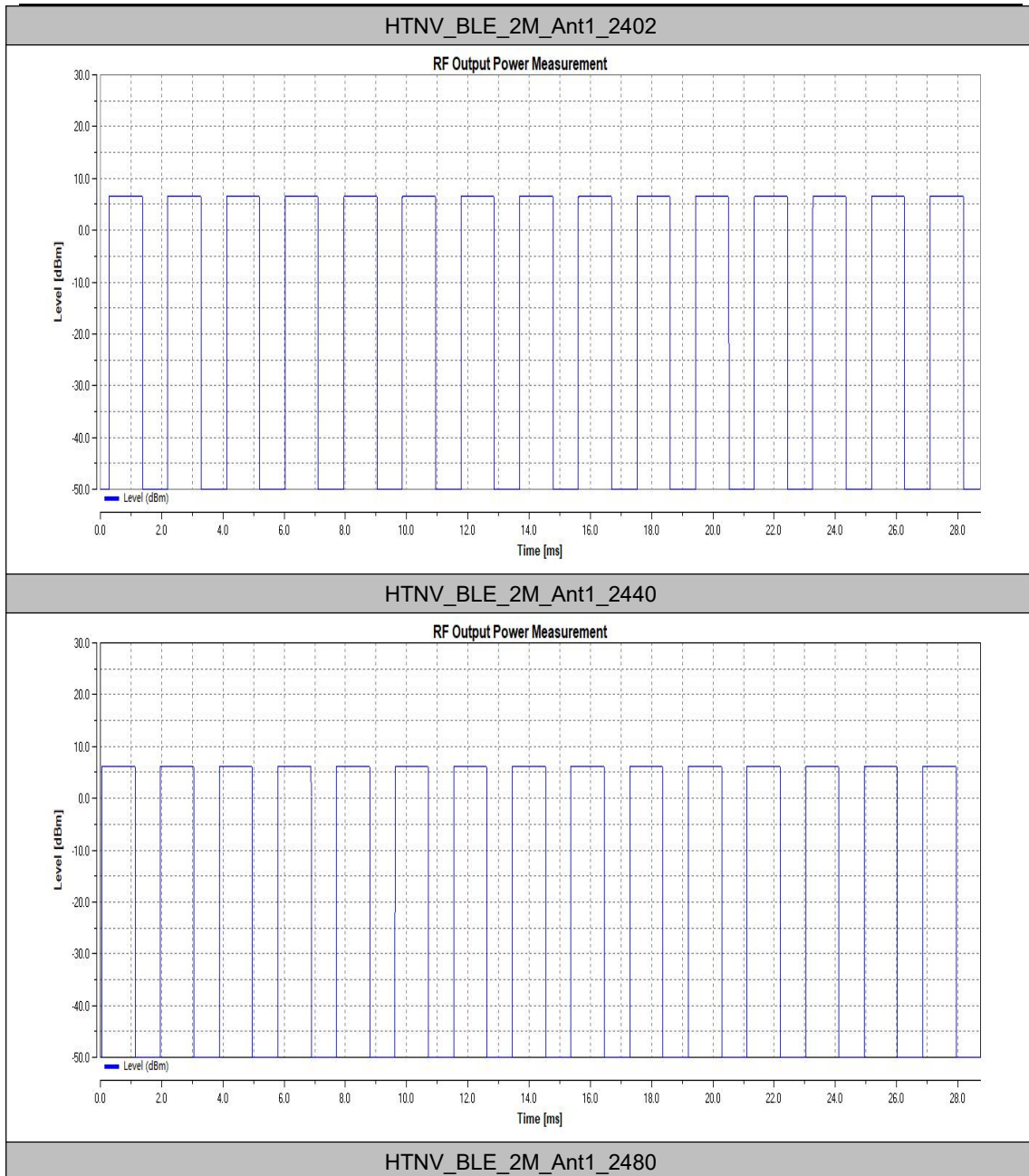
HTNV\_BLE\_1M\_Ant1\_2480



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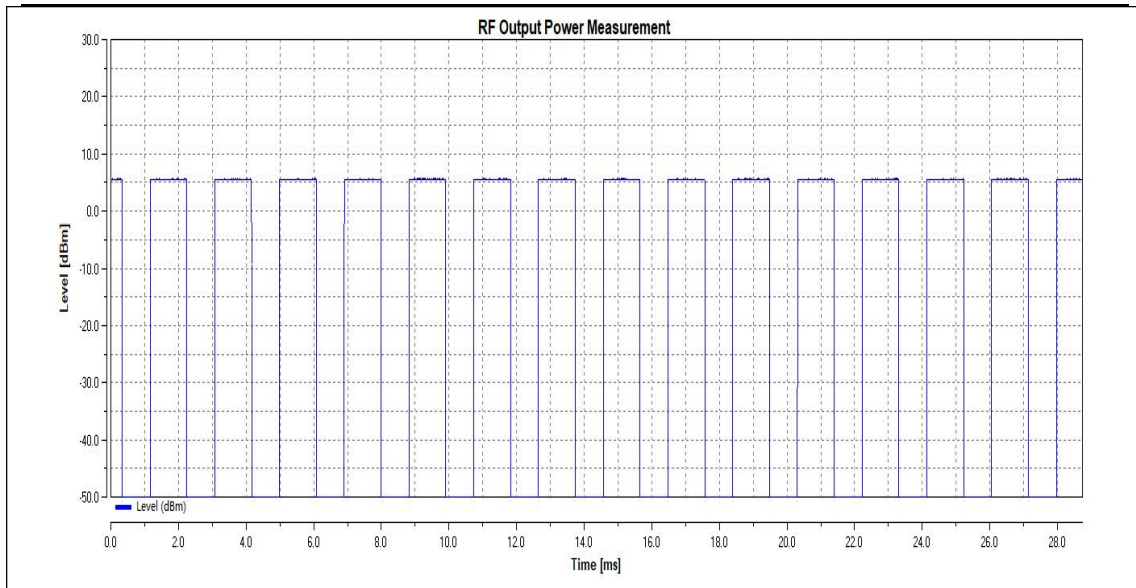
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## Appendix B: Power Spectral Density

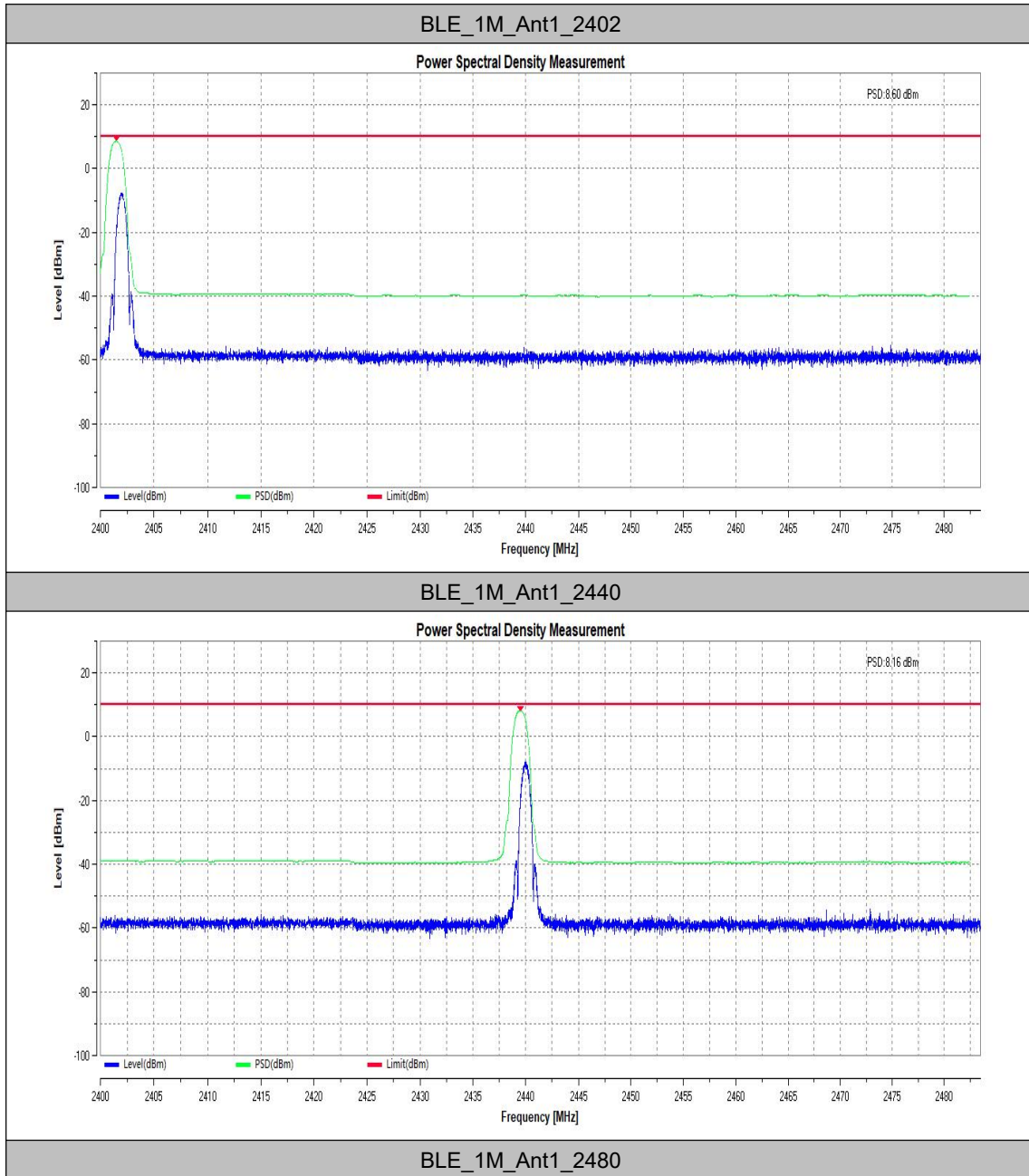
### Test Result

TestMode	Antenna	Frequency[MHz]	EIRP PSD[dBm/MHz]	Limit[dBm/MHz]	Verdict
BLE_1M	Ant1	2402	8.60	10	PASS
		2440	8.16	10	PASS
		2480	7.56	10	PASS
BLE_2M	Ant1	2402	7.09	10	PASS
		2440	6.69	10	PASS
		2480	6.11	10	PASS

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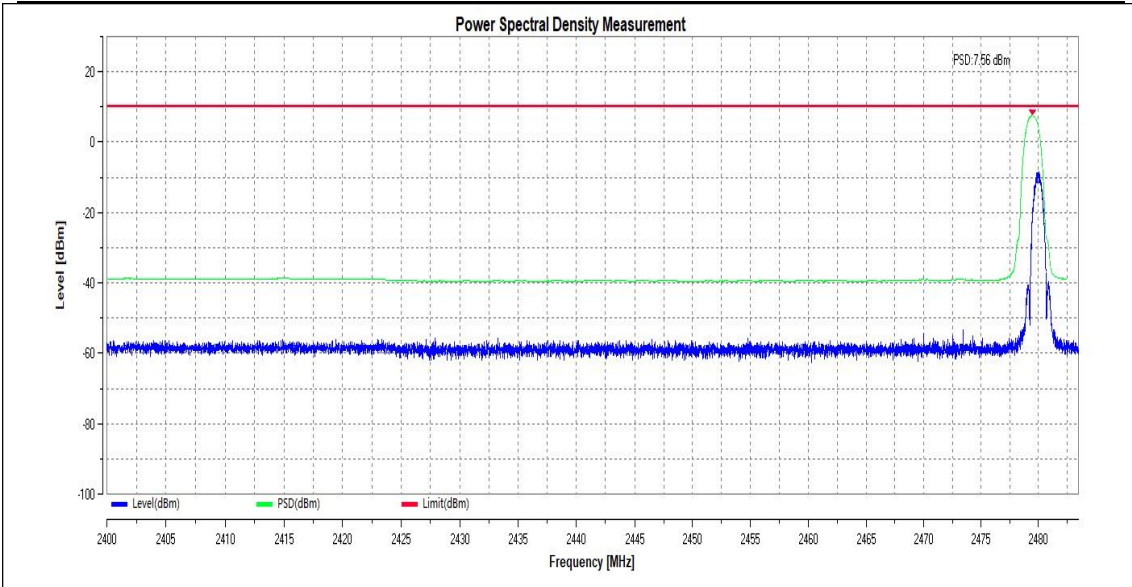
**Test Graphs**



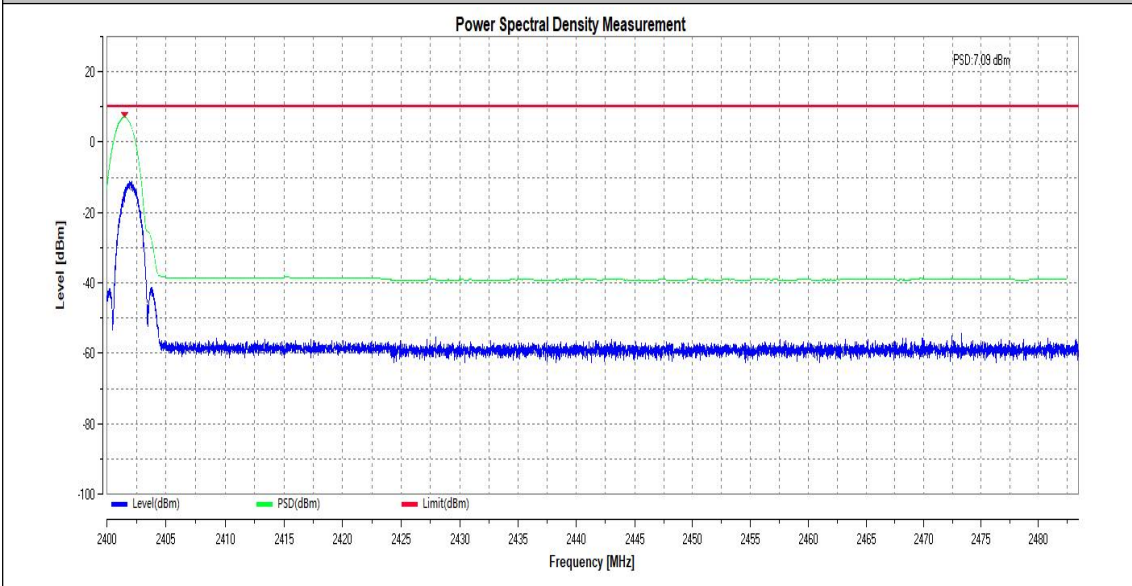
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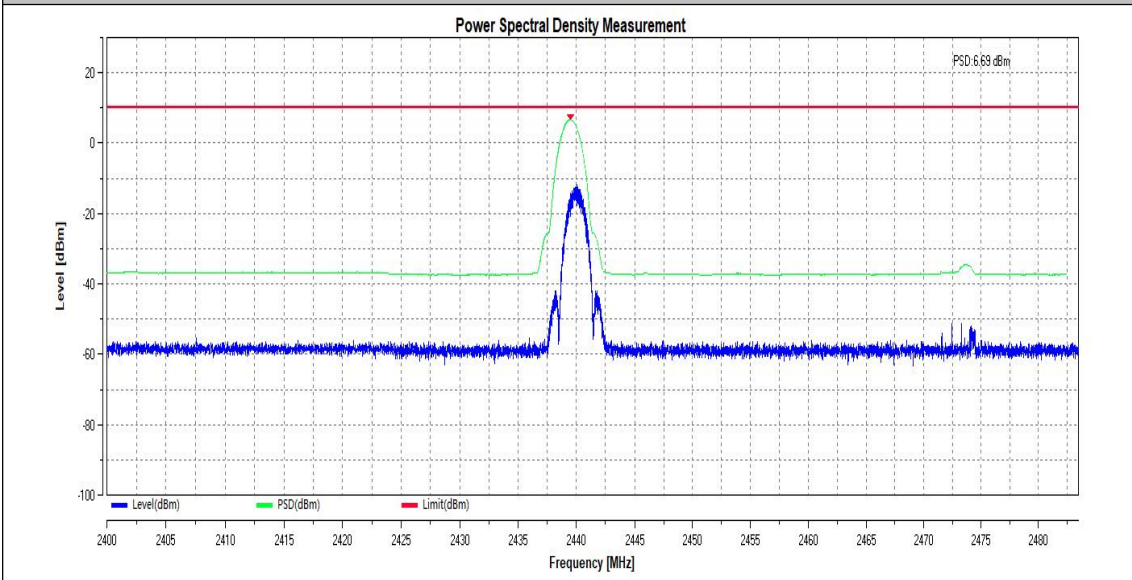
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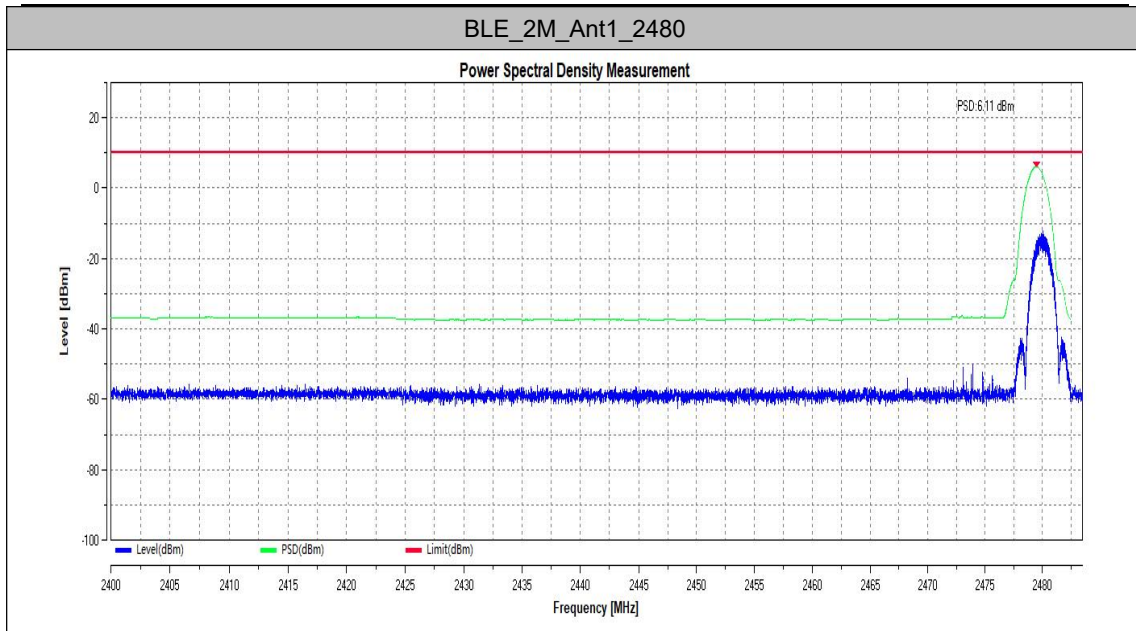
**BLE\_2M\_Ant1\_2402**



**BLE\_2M\_Ant1\_2440**



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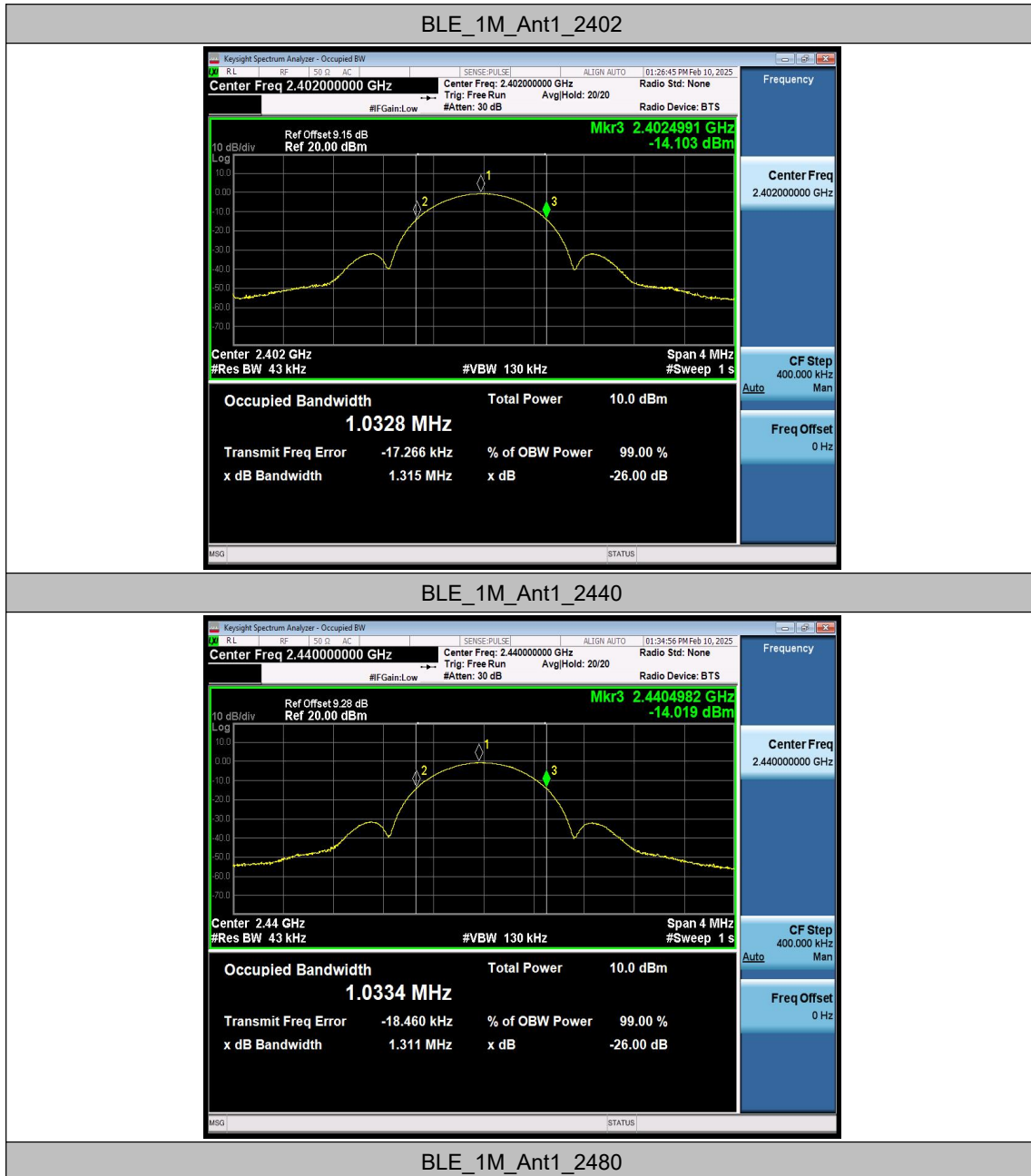
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## Appendix C: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	OCB[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0328	2401.4663	2402.4991	2400 to 2483.5	PASS
		2440	1.0334	2439.4648	2440.4982	2400 to 2483.5	PASS
		2480	1.0340	2479.4641	2480.4981	2400 to 2483.5	PASS
BLE_2M	Ant1	2402	2.0589	2400.9544	2403.0133	2400 to 2483.5	PASS
		2440	2.0696	2438.9481	2441.0177	2400 to 2483.5	PASS
		2480	2.0688	2478.9472	2481.0160	2400 to 2483.5	PASS

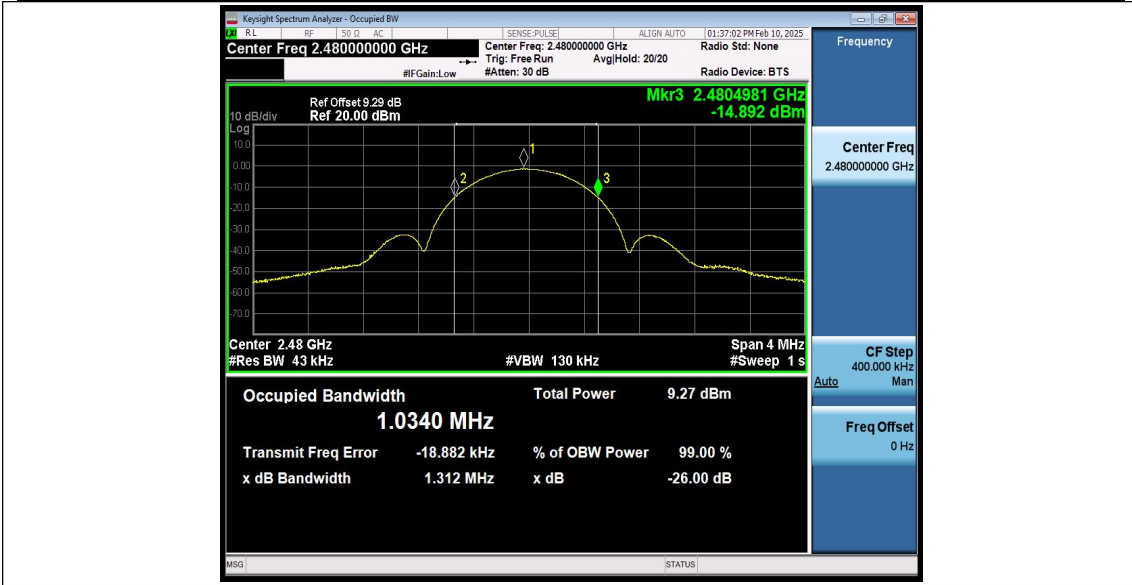
**Test Graphs**



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440



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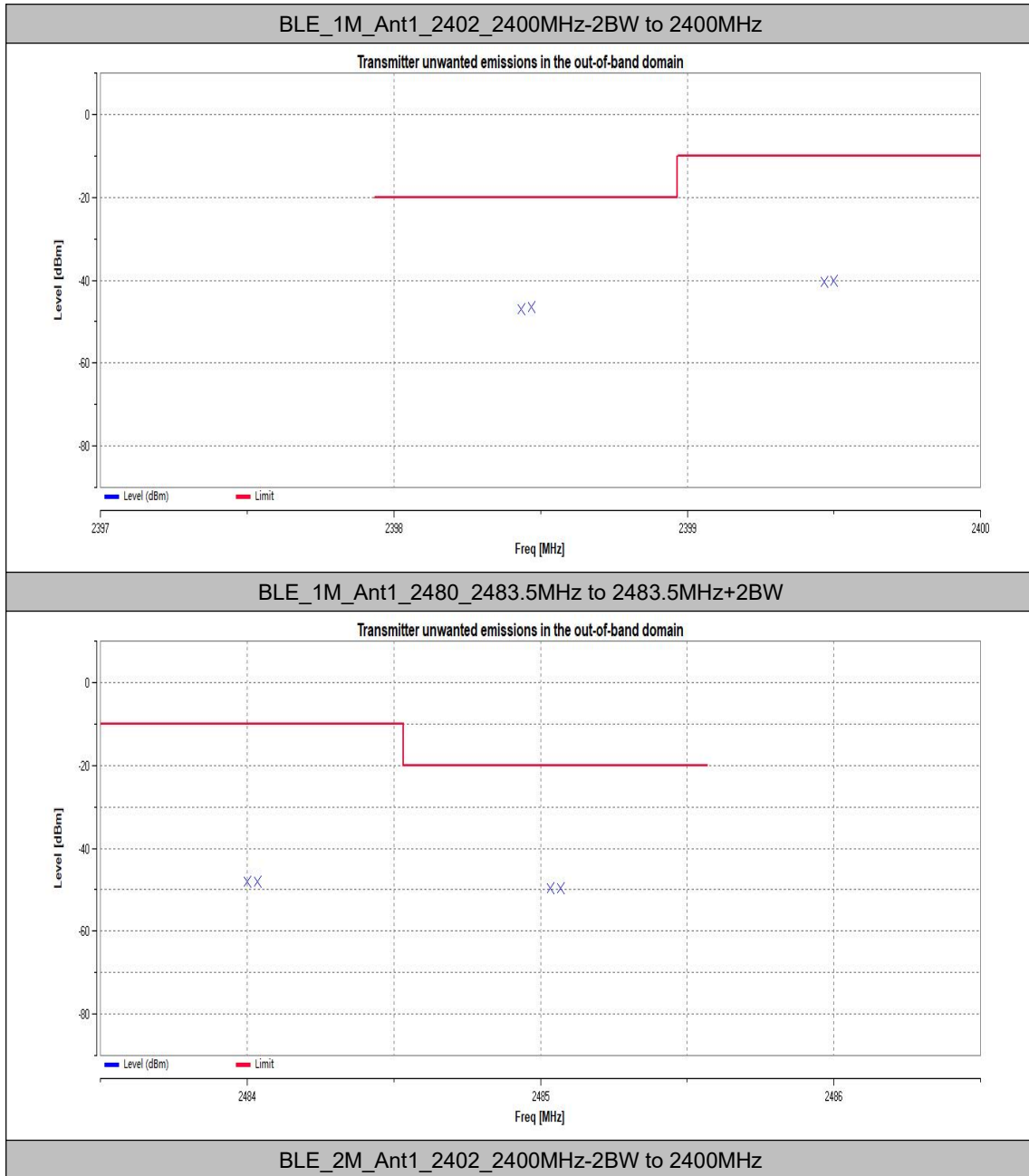
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## Appendix D: Transmitter Unwanted Emissions In The Out-Of-Band Domain

### Test Result

TestMode	Antenna	Frequency[MHz]	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2398.4344	-46.96	-20.00	PASS
			2398.4672	-46.43	-20.00	PASS
			2399.4672	-40.50	-10.00	PASS
			2399.5	-40.21	-10.00	PASS
		2480	2484	-48.00	-10.00	PASS
			2484.034	-48.03	-10.00	PASS
			2485.034	-49.54	-20.00	PASS
			2485.068	-49.58	-20.00	PASS
BLE_2M	Ant1	2402	2396.3822	-47.88	-20.00	PASS
			2396.4411	-47.94	-20.00	PASS
			2397.4411	-48.12	-20.00	PASS
			2398.4411	-42.61	-10.00	PASS
			2398.5	-42.65	-10.00	PASS
			2399.5	-24.45	-10.00	PASS
		2480	2484	-47.62	-10.00	PASS
			2485	-49.30	-10.00	PASS
			2485.0688	-49.23	-10.00	PASS
			2486.0688	-48.09	-20.00	PASS
			2487.0688	-49.50	-20.00	PASS
			2487.1376	-49.63	-20.00	PASS

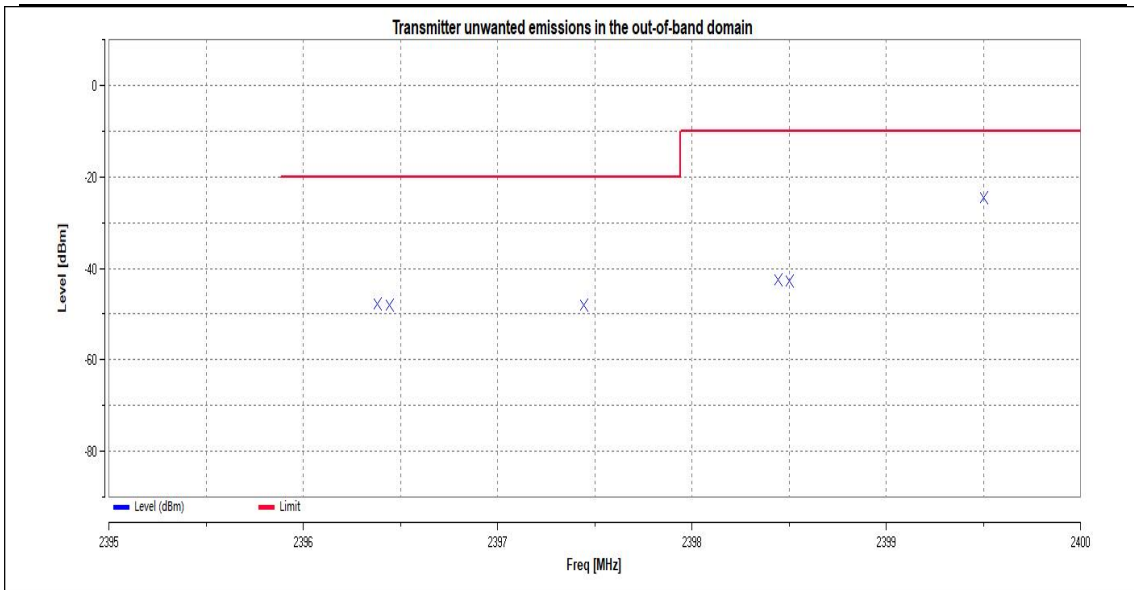
**Test Graphs**



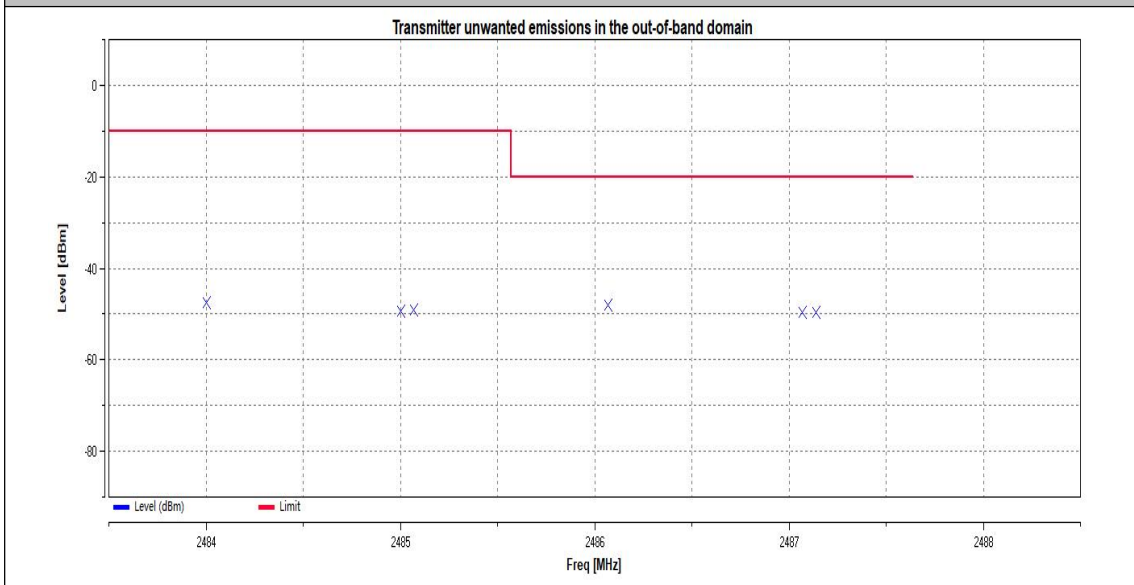
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**BLE\_2M\_Ant1\_2480\_2483.5MHz to 2483.5MHz+2BW**



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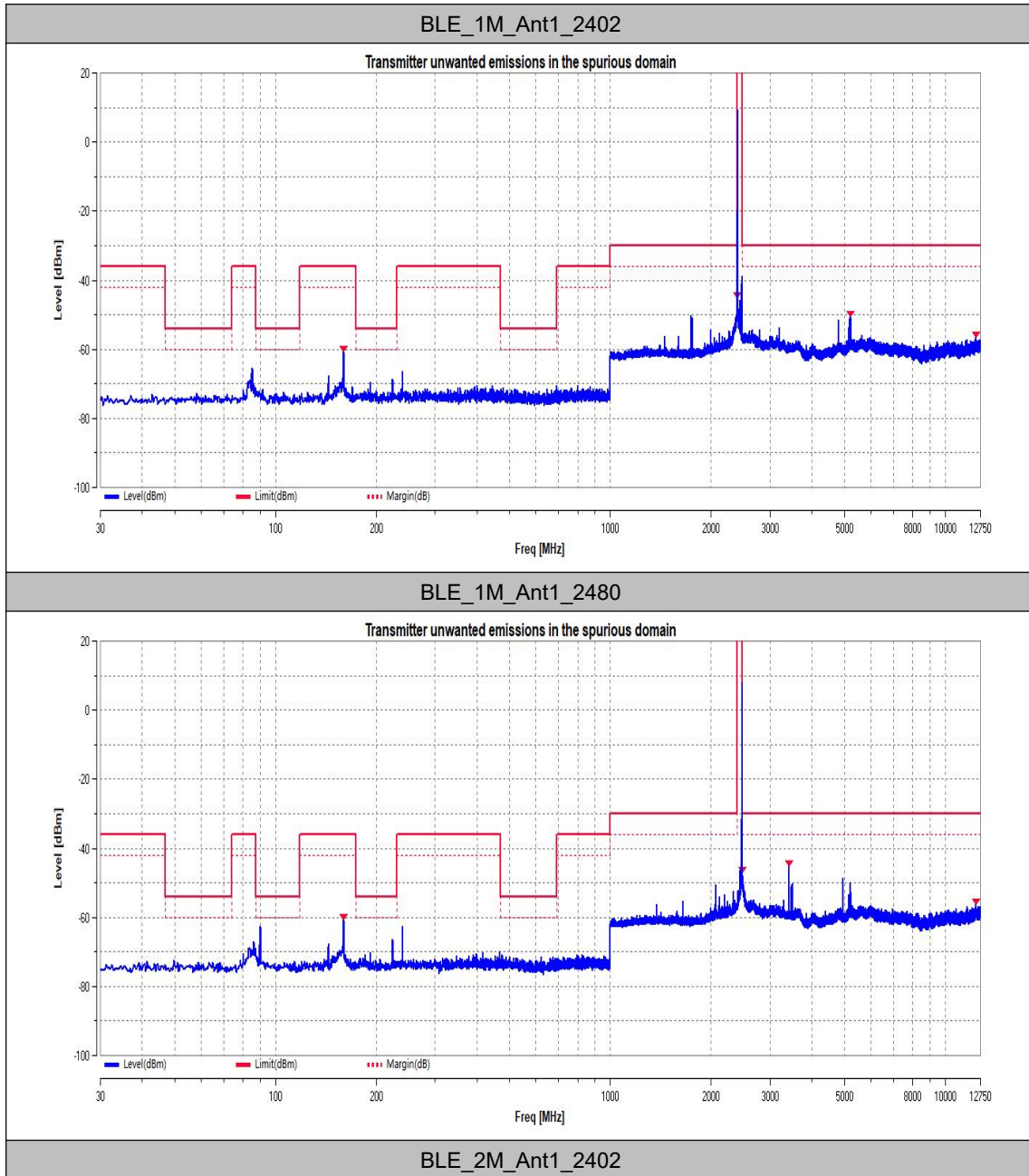
## Appendix E: Transmitter unwanted emissions in the spurious domain

### Test Result-Pre-scan

TestMode	Antenna	Frequency[MHz]	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	159.98	-60.66	-36	PASS
			2397.67	-45.27	-30	PASS
			5226	-50.47	-30	PASS
			12399	-56.71	-30	PASS
		2480	159.98	-60.69	-36	PASS
			2485.67	-47.28	-30	PASS
			3426.3	-45.38	-30	PASS
			12397.24	-56.44	-30	PASS
BLE_2M	Ant1	2402	159.98	-62.1	-36	PASS
			2394.67	-44.08	-30	PASS
			5181	-47.42	-30	PASS
			6127.08	-57	-30	PASS
		2480	159.98	-61.91	-36	PASS
			2487.67	-47.39	-30	PASS
			5226.3	-48.08	-30	PASS
			12749.41	-56.16	-30	PASS



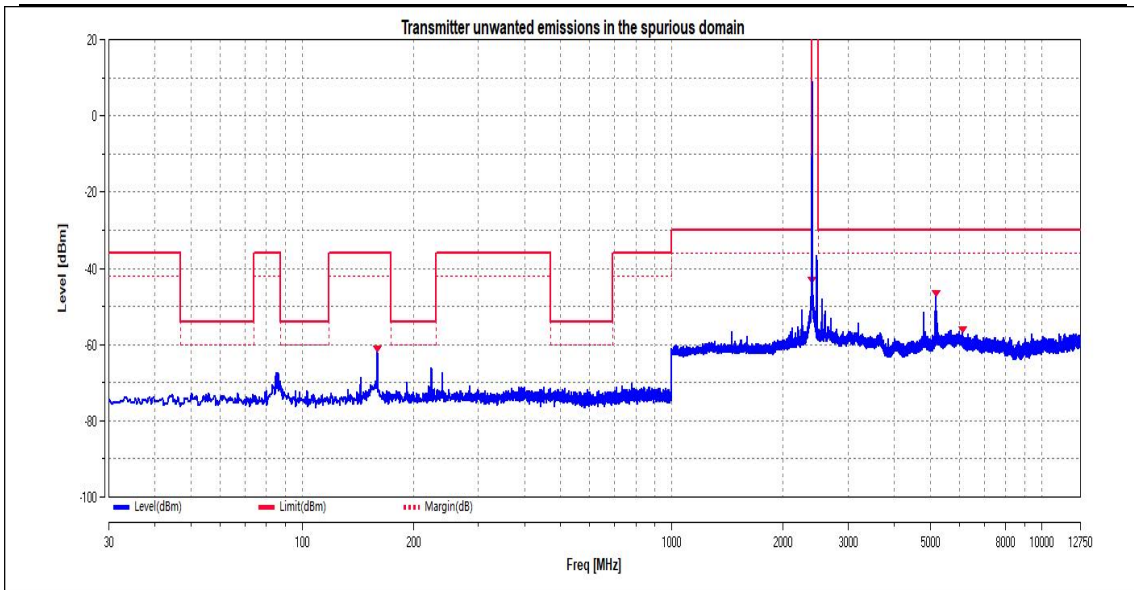
**Test Graphs-Pre-scan**



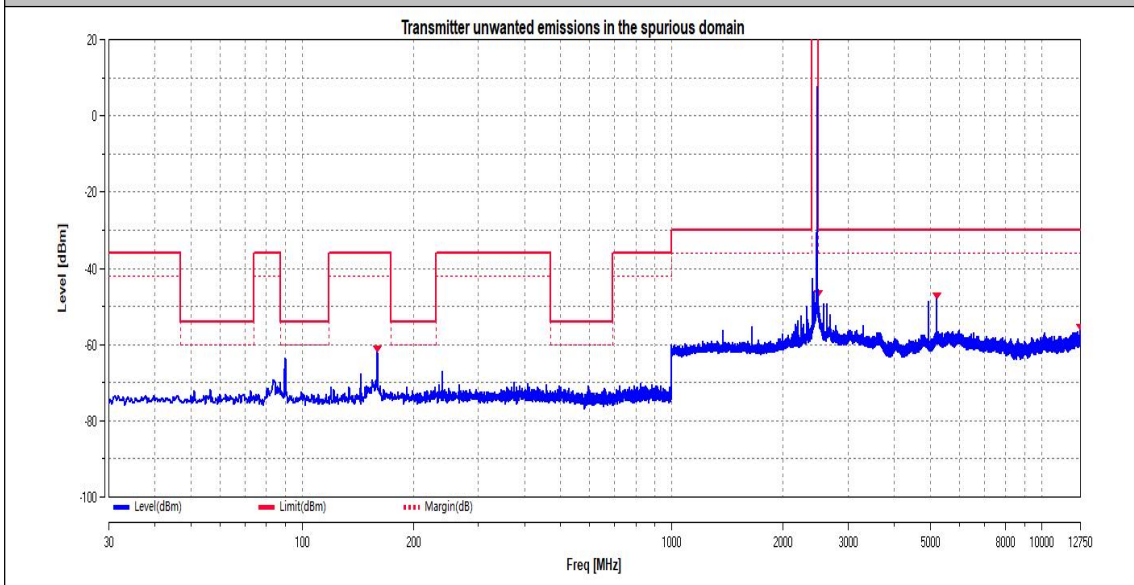
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BLE\_2M\_Ant1\_2480



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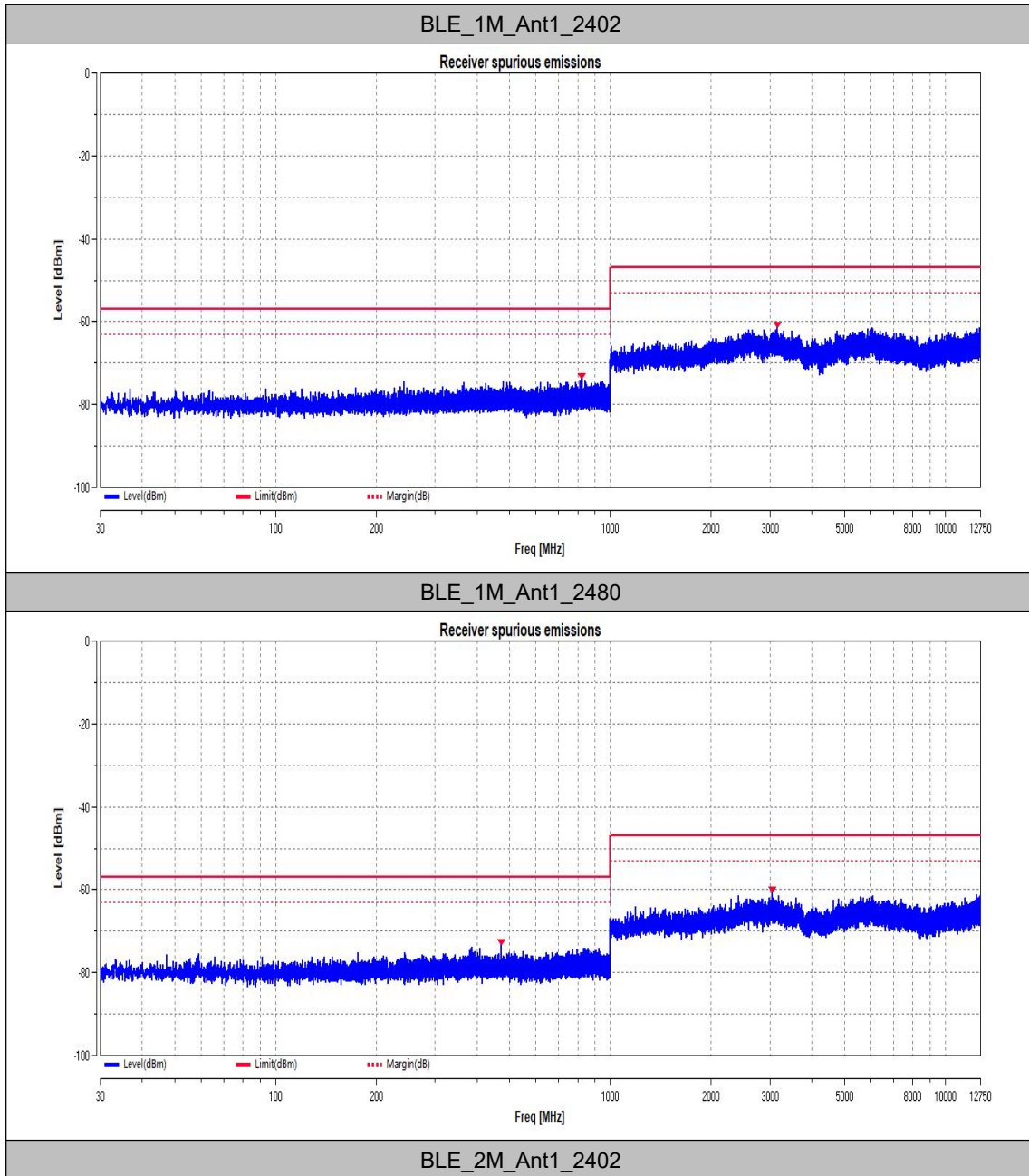
## Appendix F: Receiver spurious emissions

### Test Result-Pre-scan

TestMode	Antenna	Frequency[MHz]	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	820.79	-73.84	-57.00	PASS
			3158.48	-61.44	-47.00	PASS
		2480	472.51	-73.42	-57.00	PASS
			3039.41	-60.61	-47.00	PASS
BLE_2M	Ant1	2402	899.75	-73.82	-57.00	PASS
			2686.91	-60.62	-47.00	PASS
		2480	941.36	-73.73	-57.00	PASS
			6017.64	-60.31	-47.00	PASS



**Test Graphs-Pre-scan**

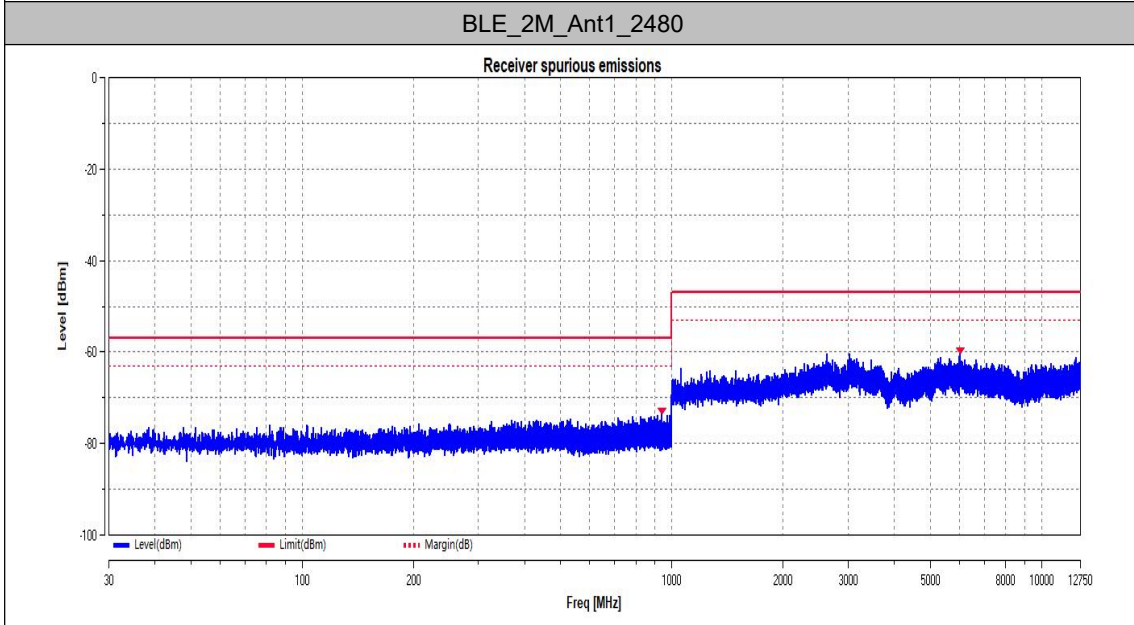
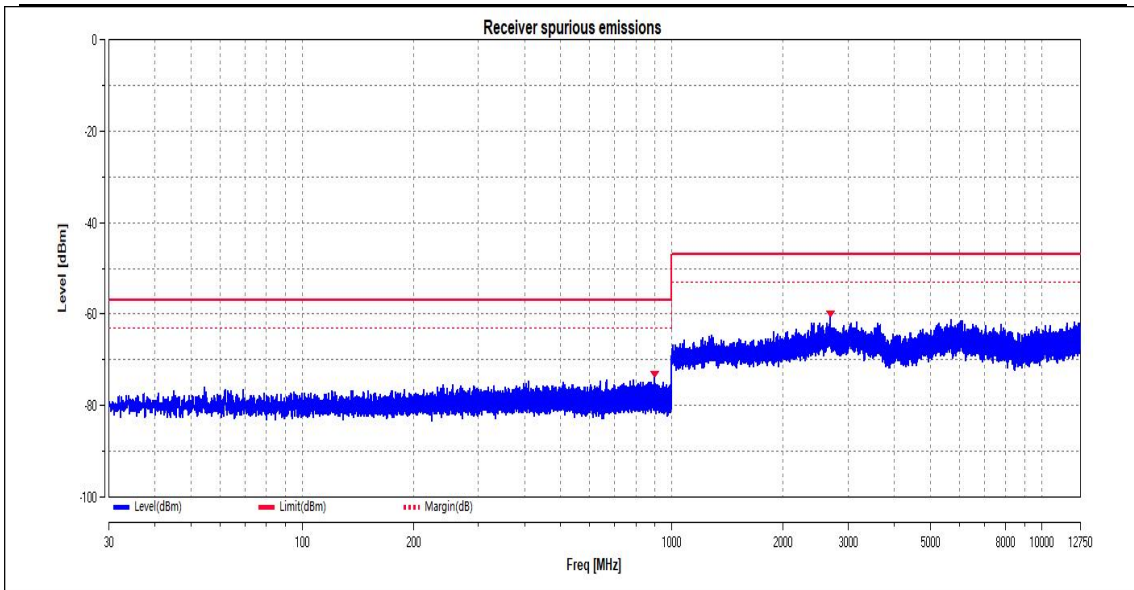


BLE\_2M\_Ant1\_2402

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