

Appendix Test Data

Report No:	18220WC20181304W	Test Sample NO:	1-2-2
Start Test Date:	2022.8.12	Finish Test Date:	2022.8.15
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56.2%
Pressure:	1012 hPa		

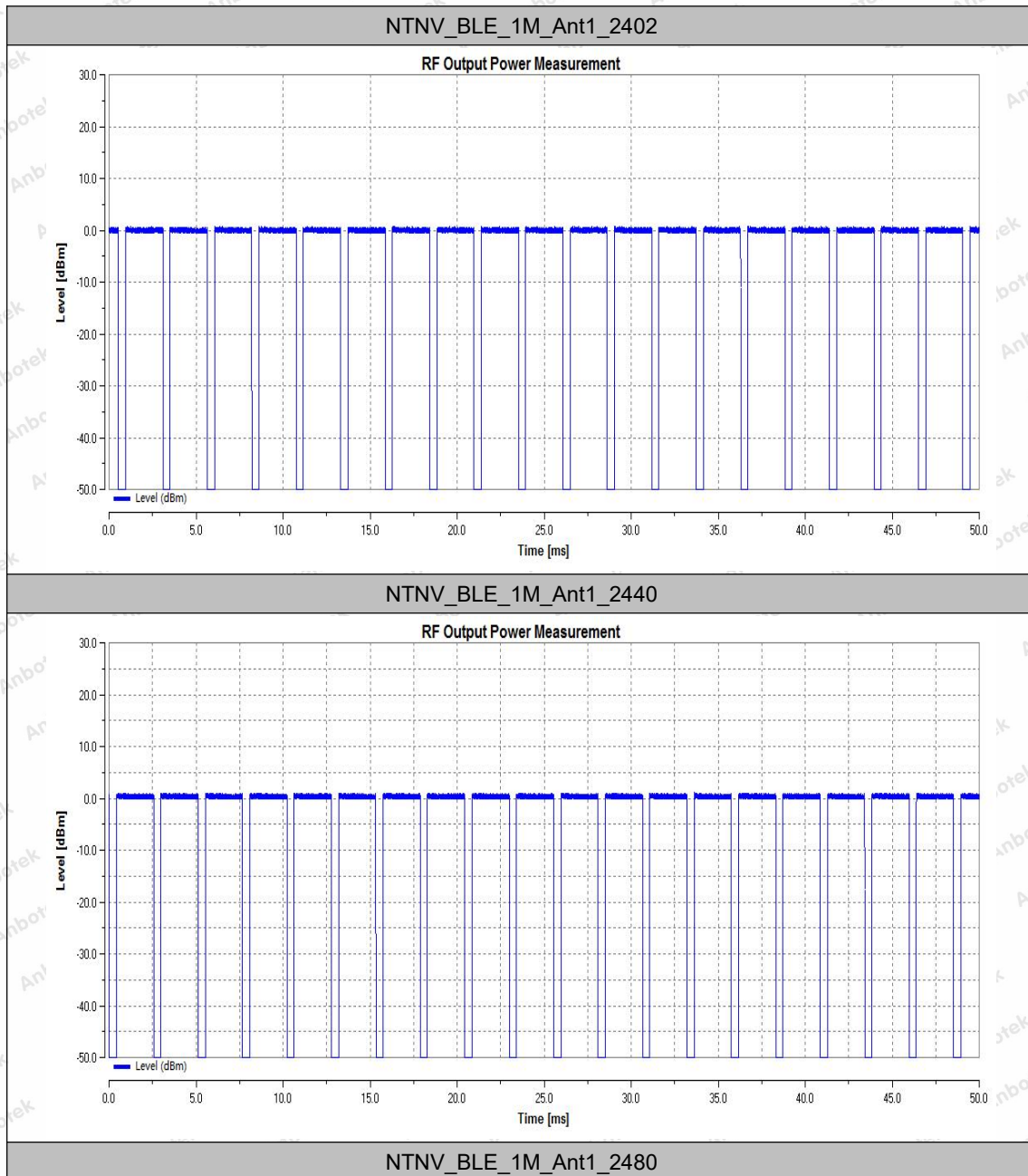
Appendix A: RF Output Power

Test Result

Test Condition	Test Mode	Antenna	Frequency[MHz]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
NTNV	BLE_1M	Ant1	2402	4.00	20	PASS
			2440	4.38	20	PASS
			2480	3.64	20	PASS
	BLE_2M	Ant1	2402	4.15	20	PASS
			2440	4.43	20	PASS
			2480	3.83	20	PASS
LTVN	BLE_1M	Ant1	2402	4.08	20	PASS
			2440	4.36	20	PASS
			2480	3.71	20	PASS
	BLE_2M	Ant1	2402	4.14	20	PASS
			2440	4.71	20	PASS
			2480	3.83	20	PASS
HTNV	BLE_1M	Ant1	2402	3.94	20	PASS
			2440	4.34	20	PASS
			2480	3.67	20	PASS
	BLE_2M	Ant1	2402	4.16	20	PASS
			2440	4.41	20	PASS
			2480	3.85	20	PASS



Test Graphs



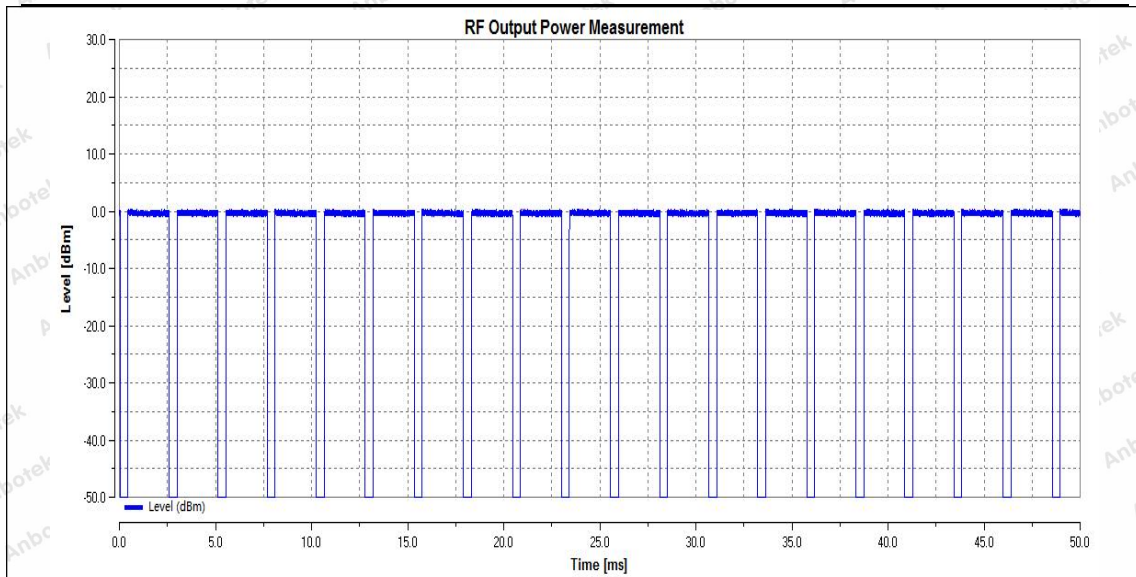
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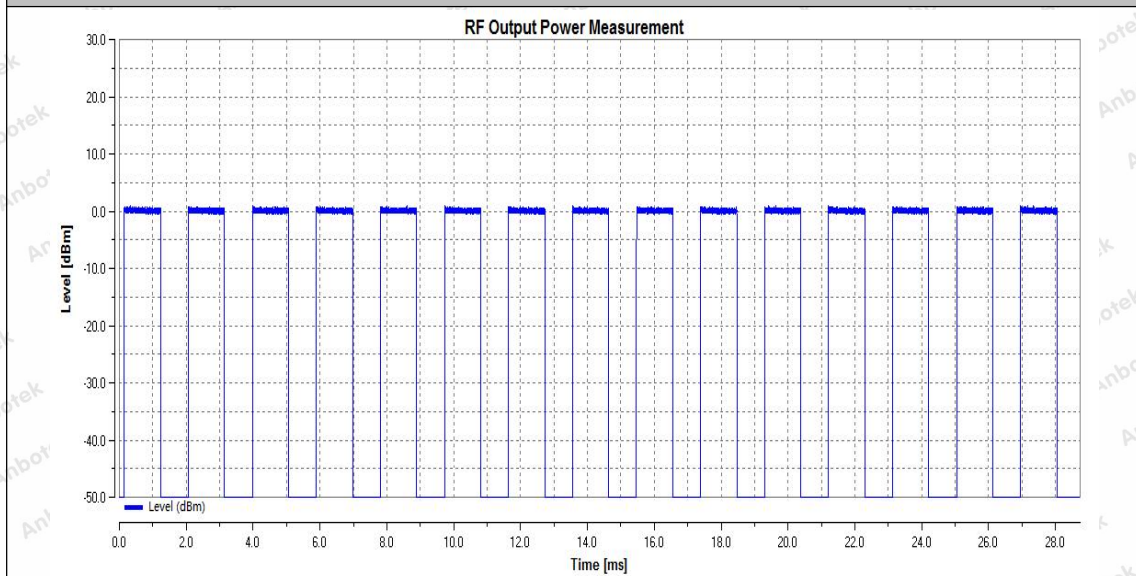


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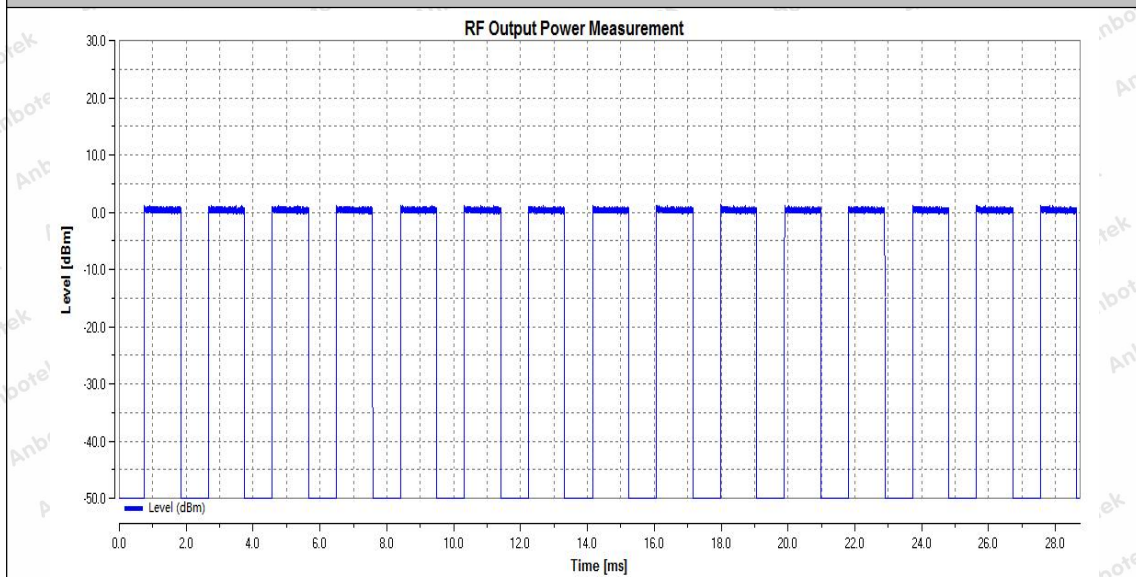




NTNV_BLE_2M_Ant1_2402



NTNV_BLE_2M_Ant1_2440

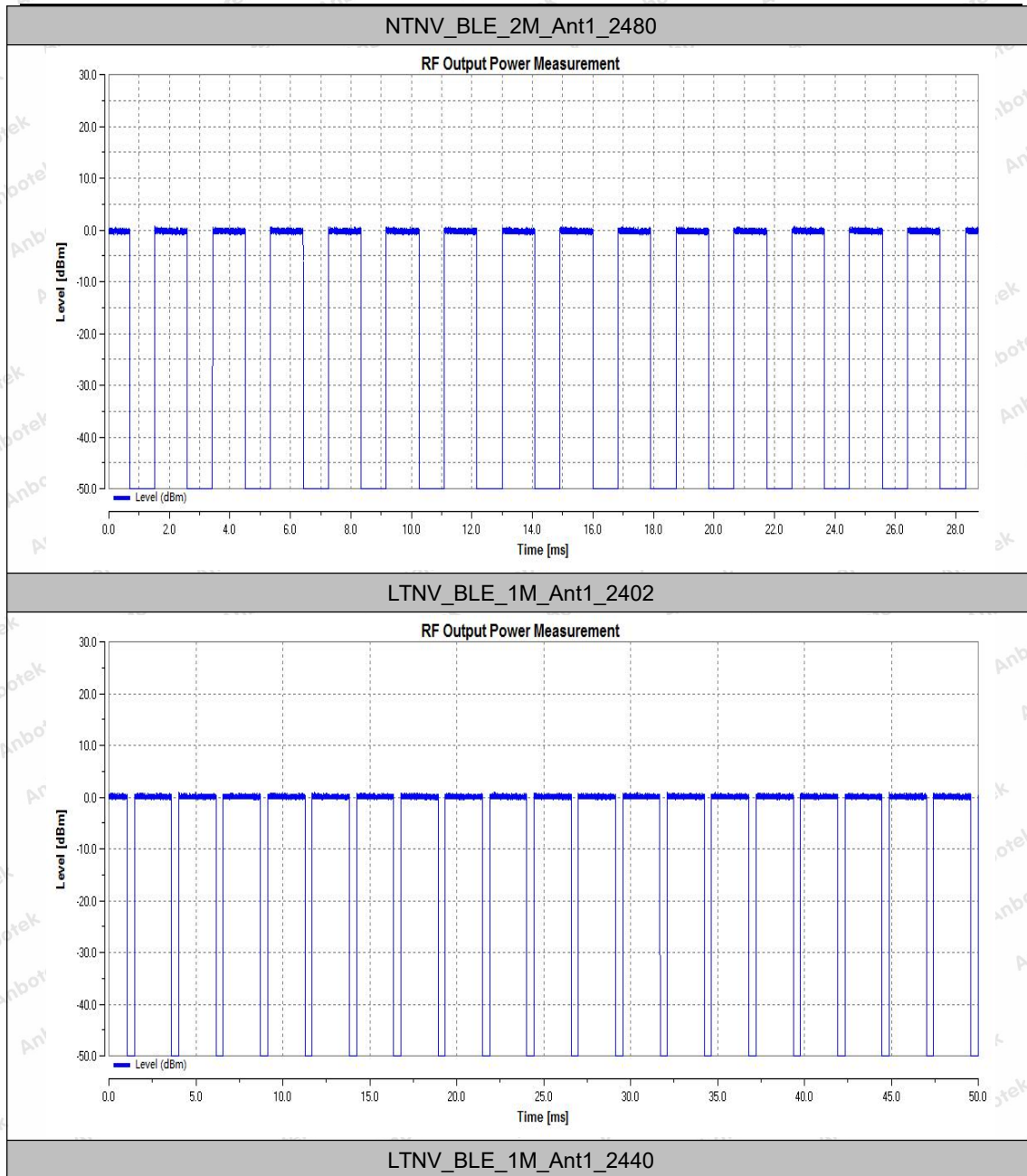
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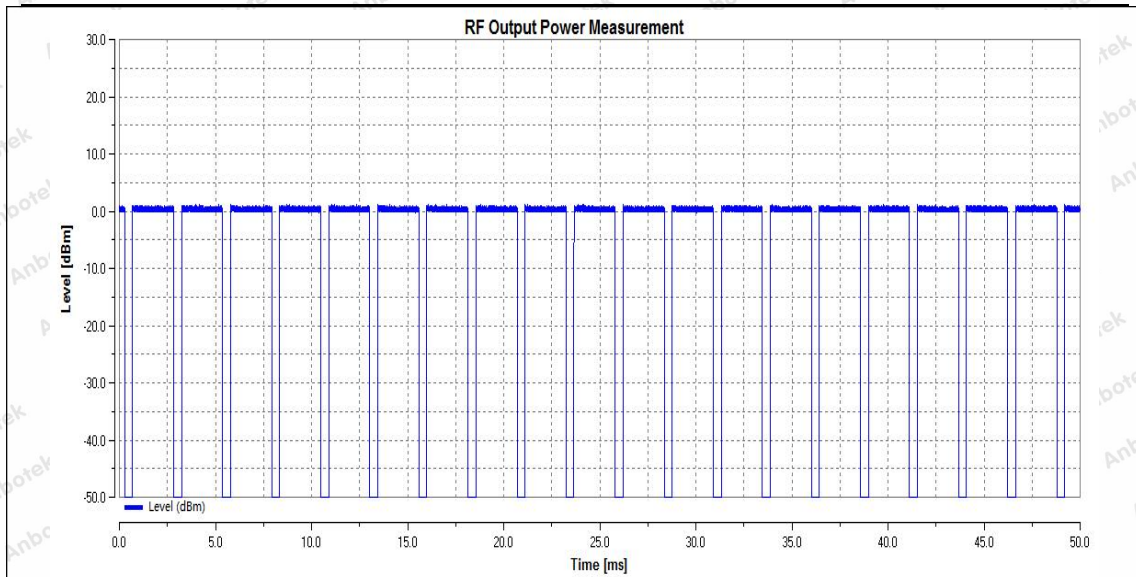
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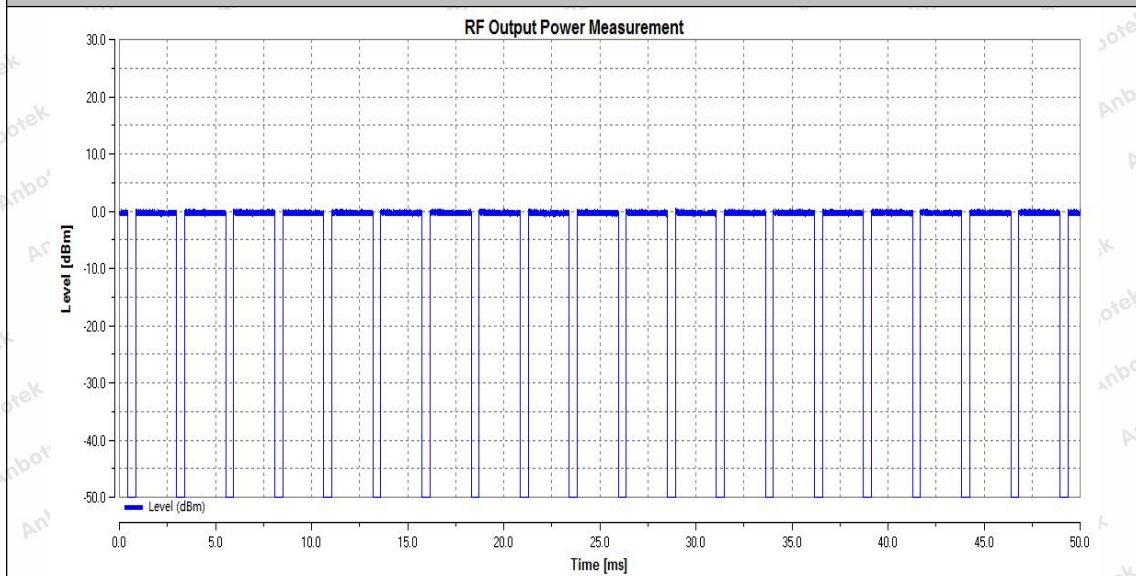


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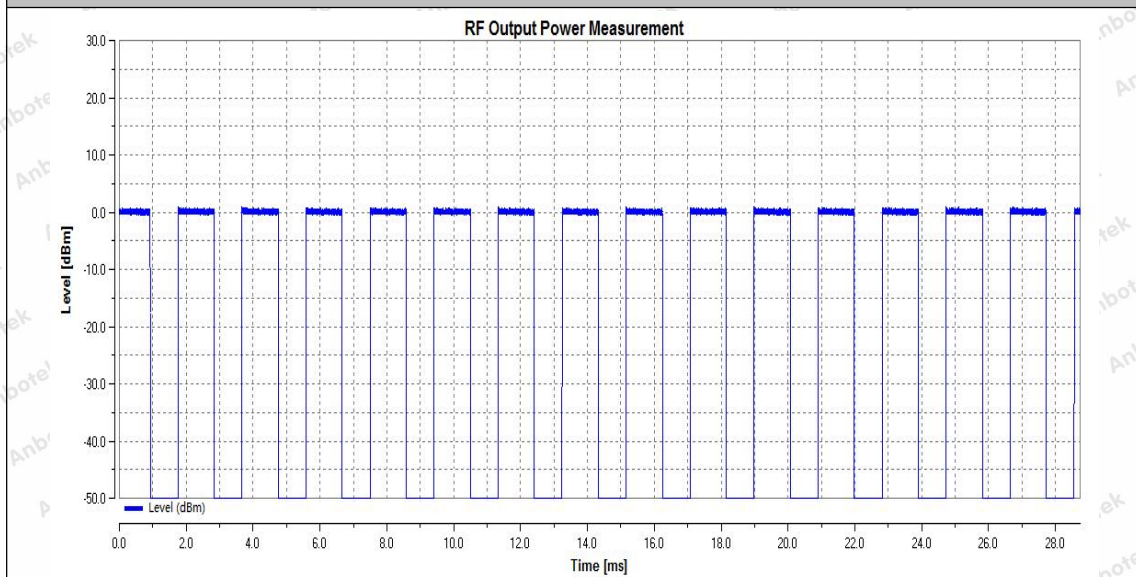




LTNV_BLE_1M_Ant1_2480



LTNV_BLE_2M_Ant1_2402



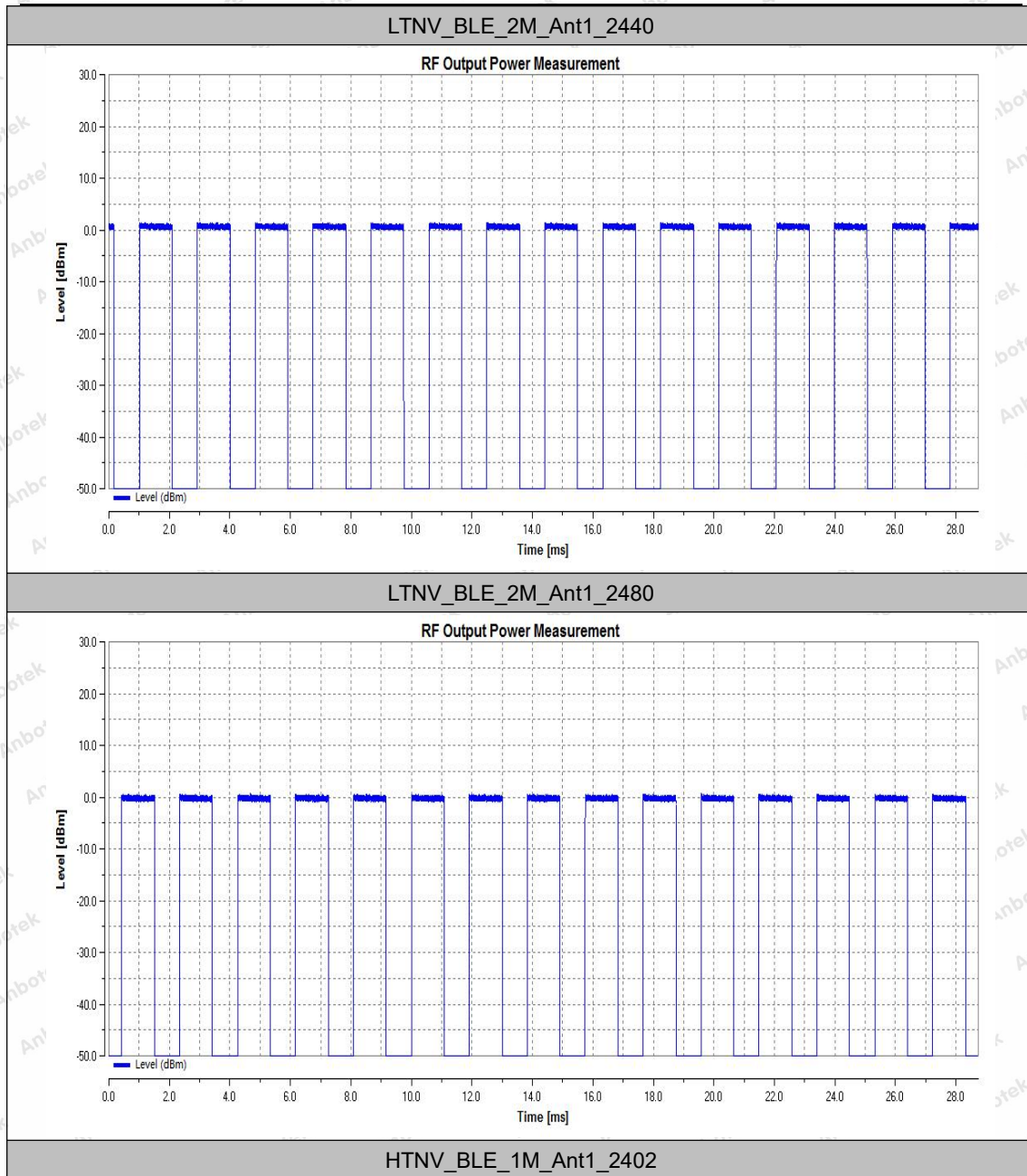
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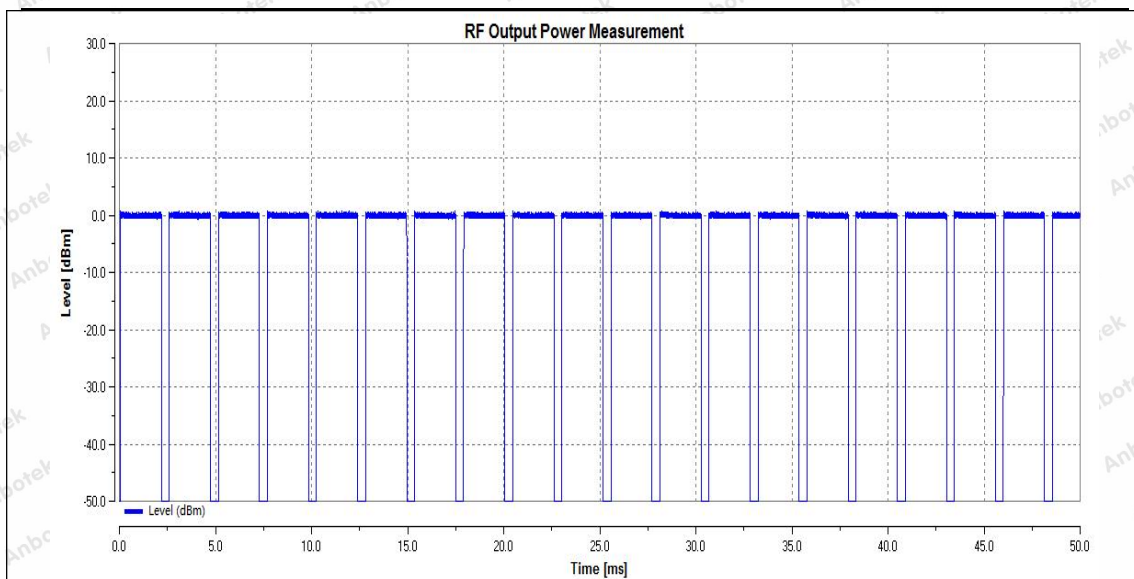
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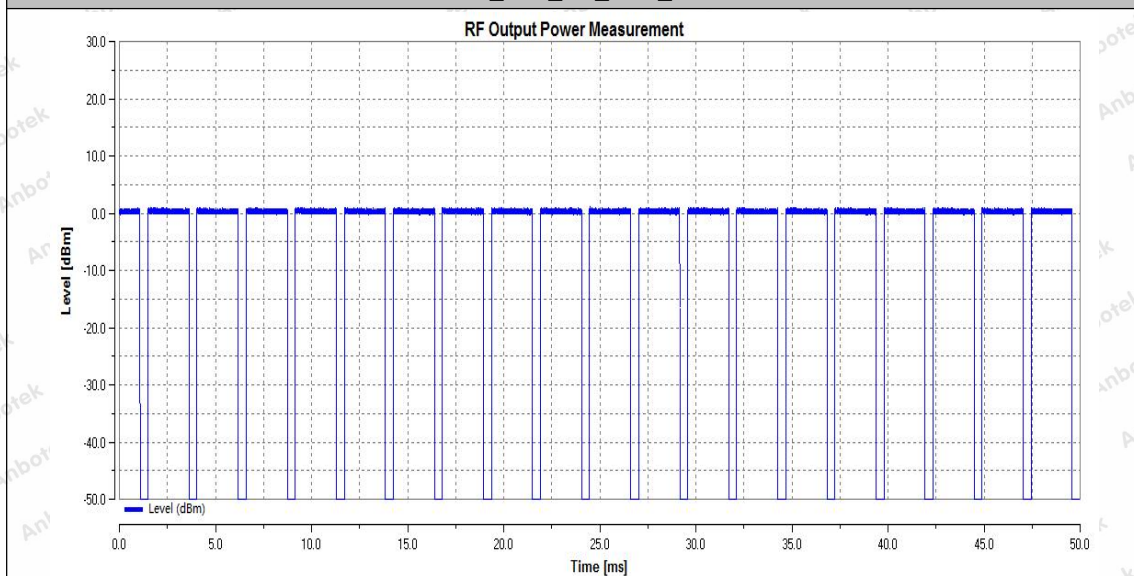


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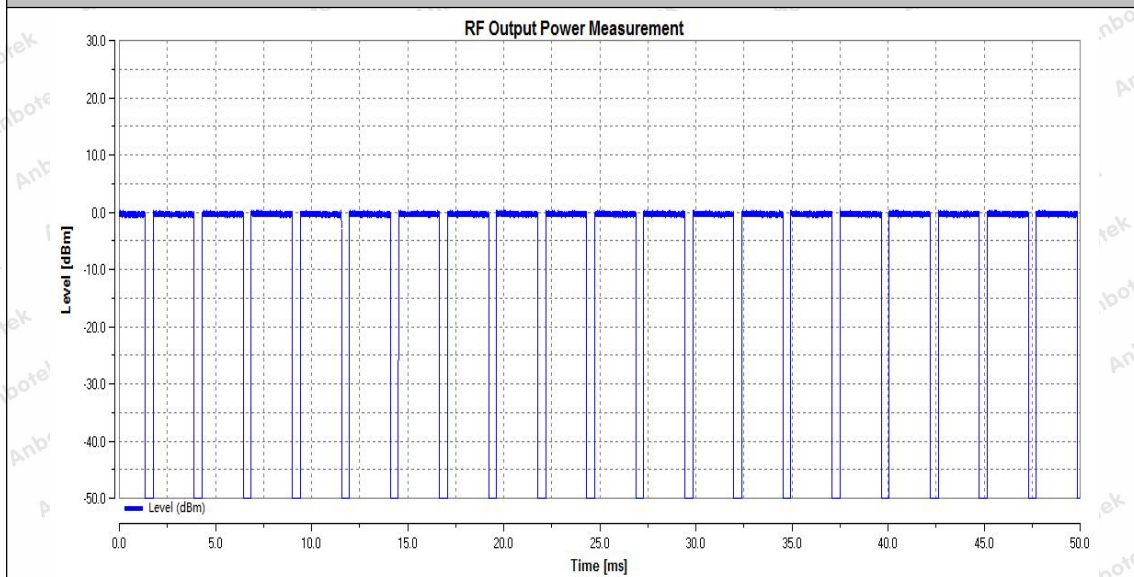




HTNV_BLE_1M_Ant1_2440



HTNV_BLE_1M_Ant1_2480



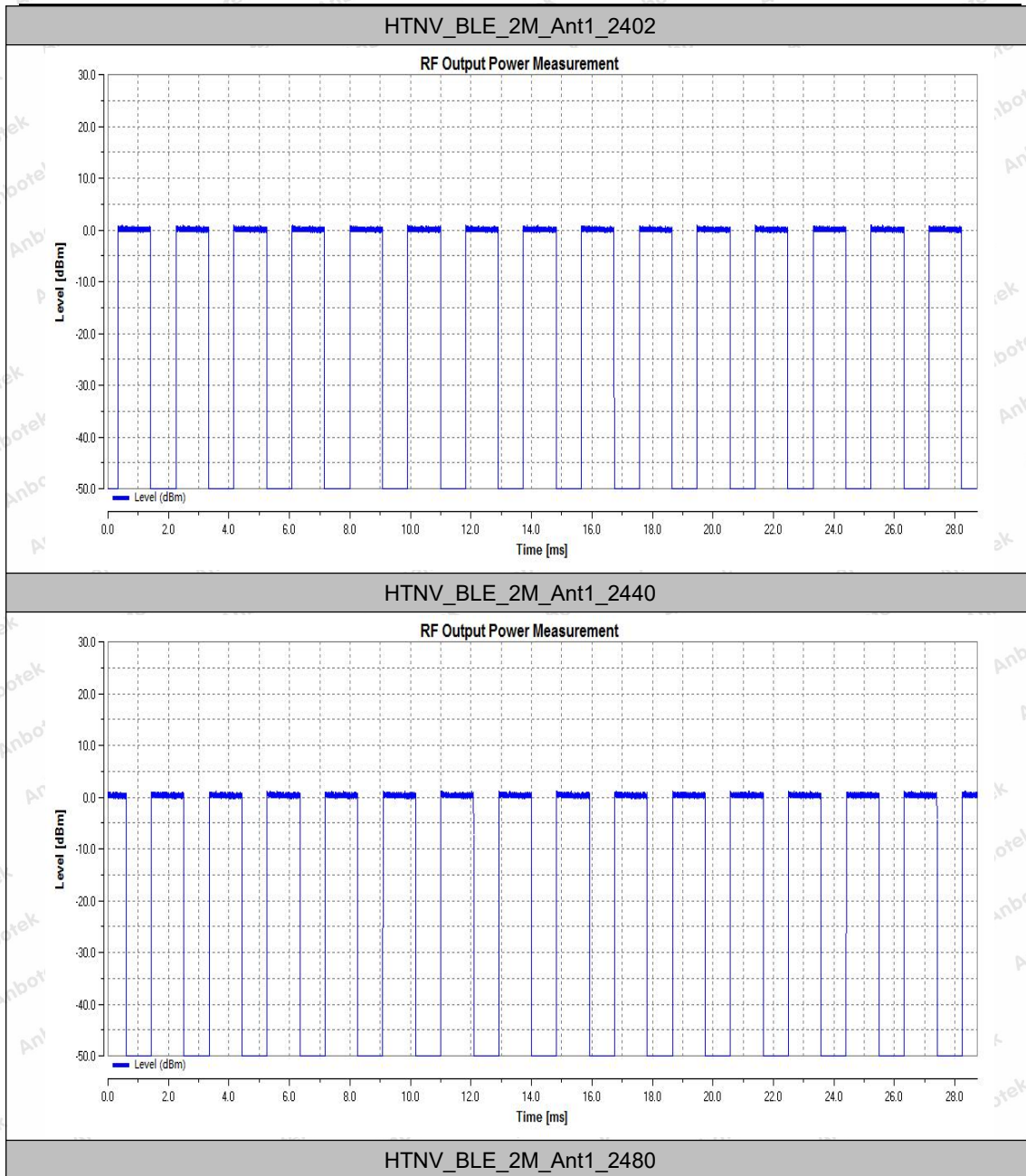
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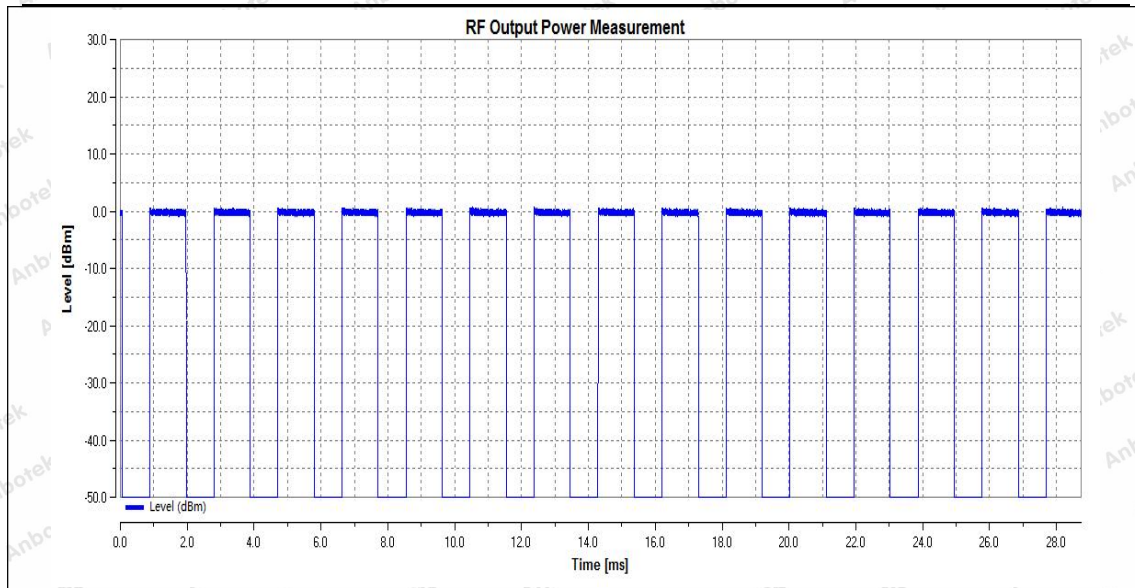
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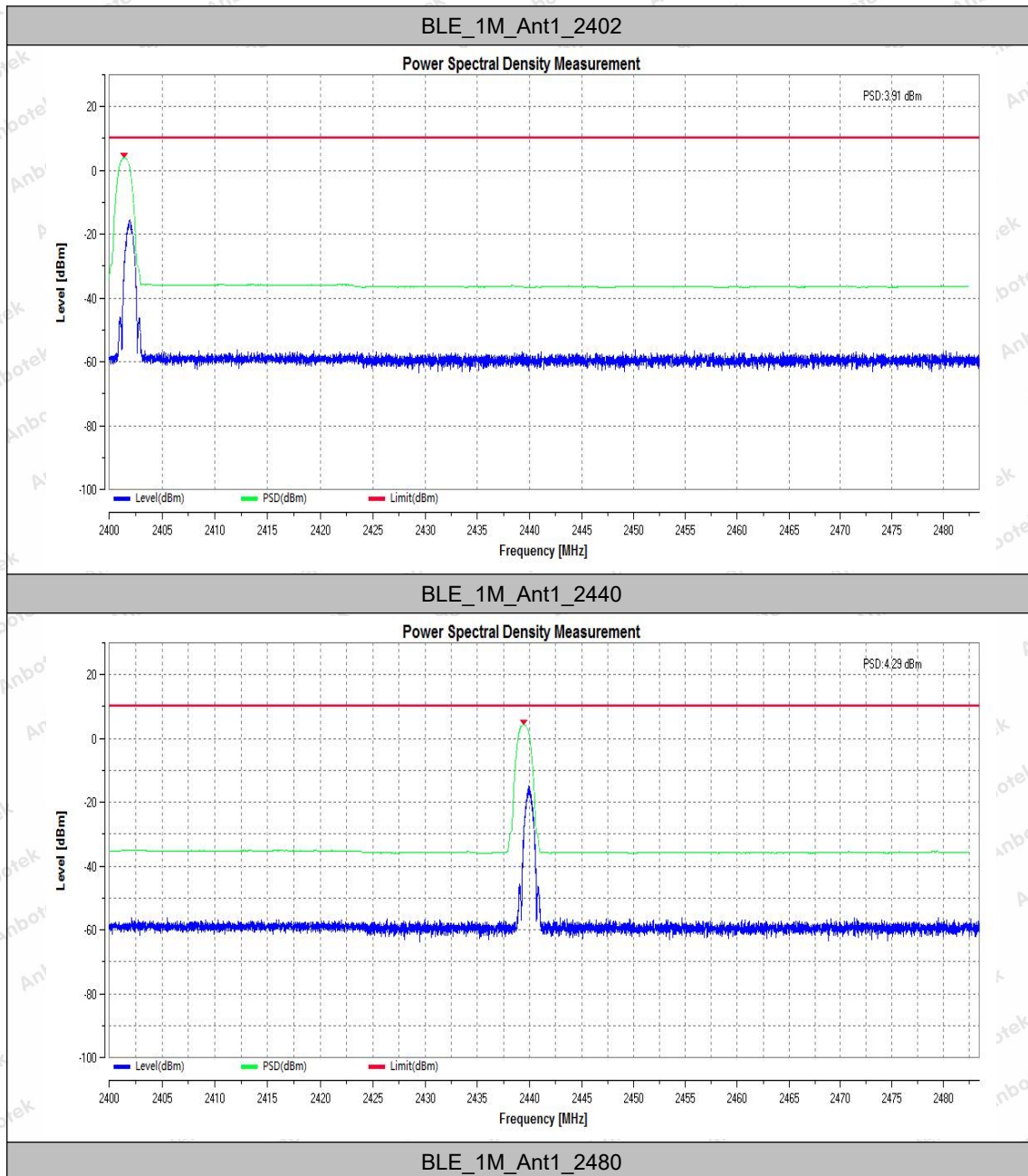
Appendix B: Power Spectral Density

Test Result

Test Mode	Antenna	Frequency[MHz]	EIRP PSD[dBm/MHz]	Limit[dBm/MHz]	Verdict
BLE_1M	Ant1	2402	3.91	10	PASS
		2440	4.29	10	PASS
		2480	3.54	10	PASS
BLE_2M	Ant1	2402	3.04	10	PASS
		2440	3.32	10	PASS
		2480	2.71	10	PASS



Test Graphs



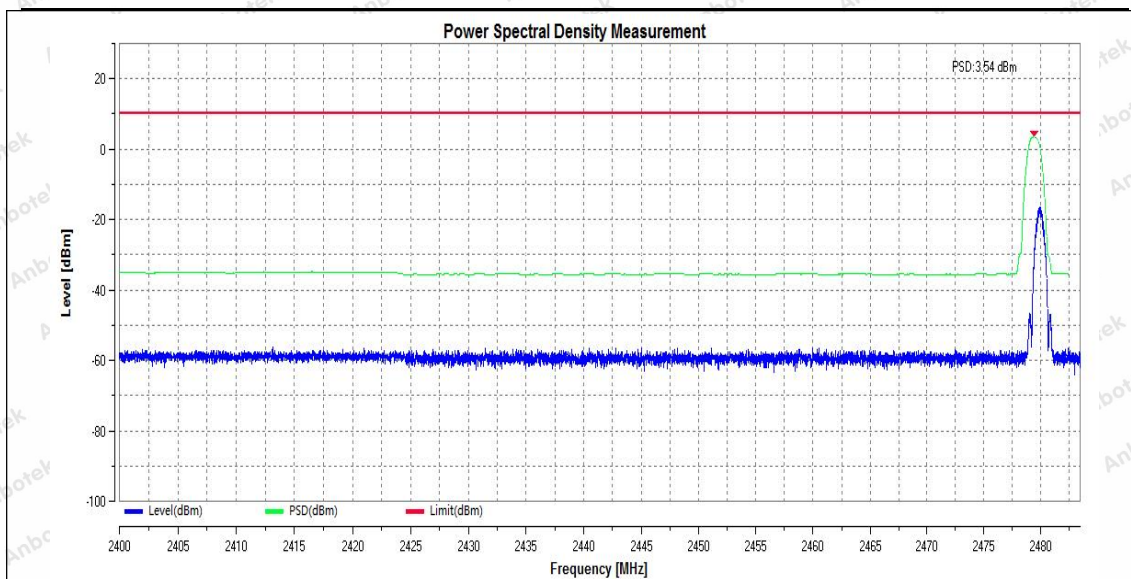
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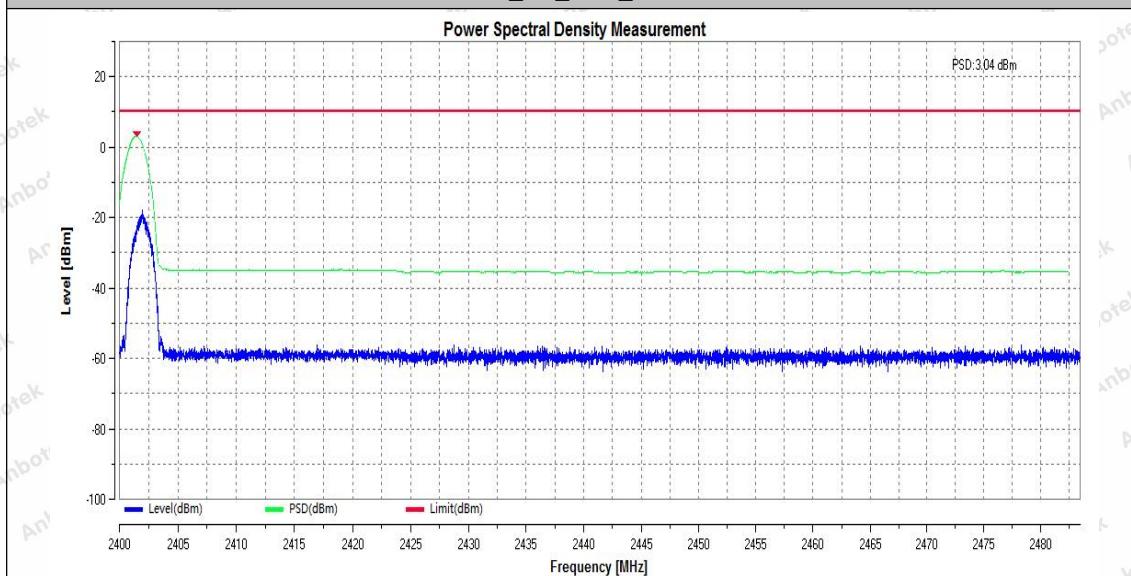


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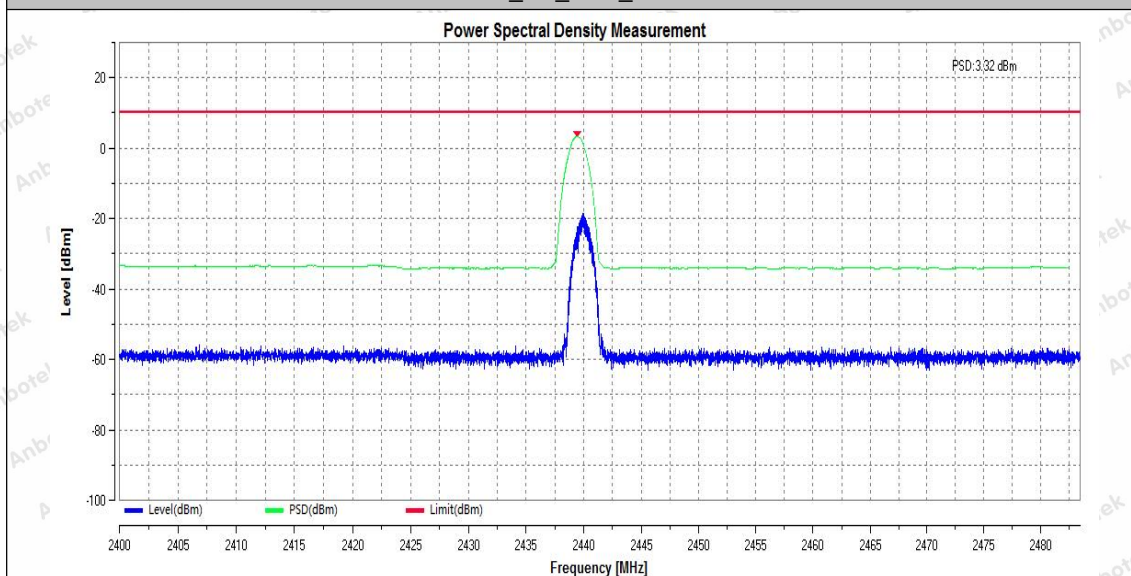




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



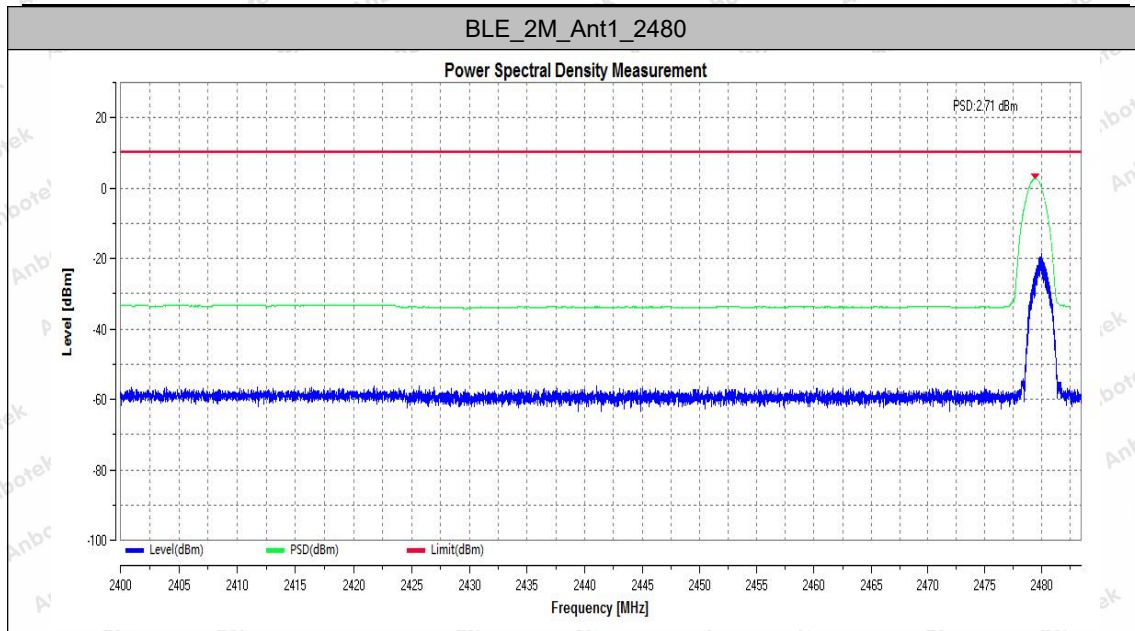
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Appendix C: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0376	2401.4333	2402.4709	2400 to 2483.5	PASS
		2440	1.0384	2439.4324	2440.4708	2400 to 2483.5	PASS
		2480	1.0381	2479.4312	2480.4693	2400 to 2483.5	PASS
BLE_2M	Ant1	2402	2.0464	2400.9285	2402.9749	2400 to 2483.5	PASS
		2440	2.0461	2438.9289	2440.9750	2400 to 2483.5	PASS
		2480	2.0468	2478.9268	2480.9736	2400 to 2483.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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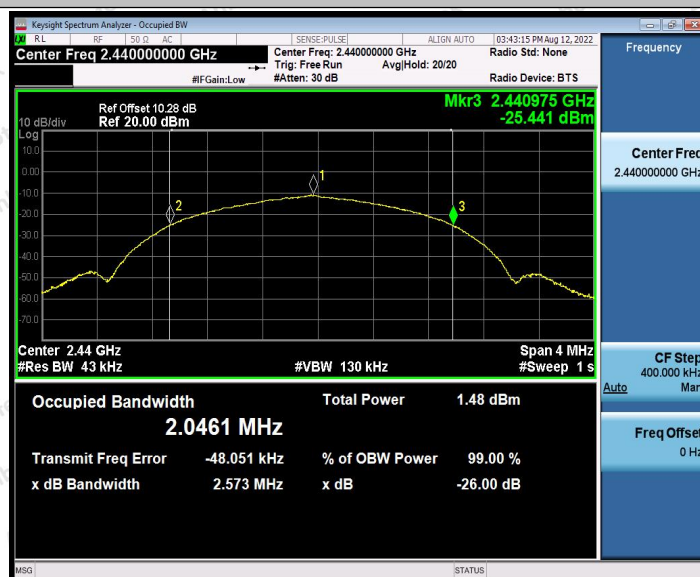




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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

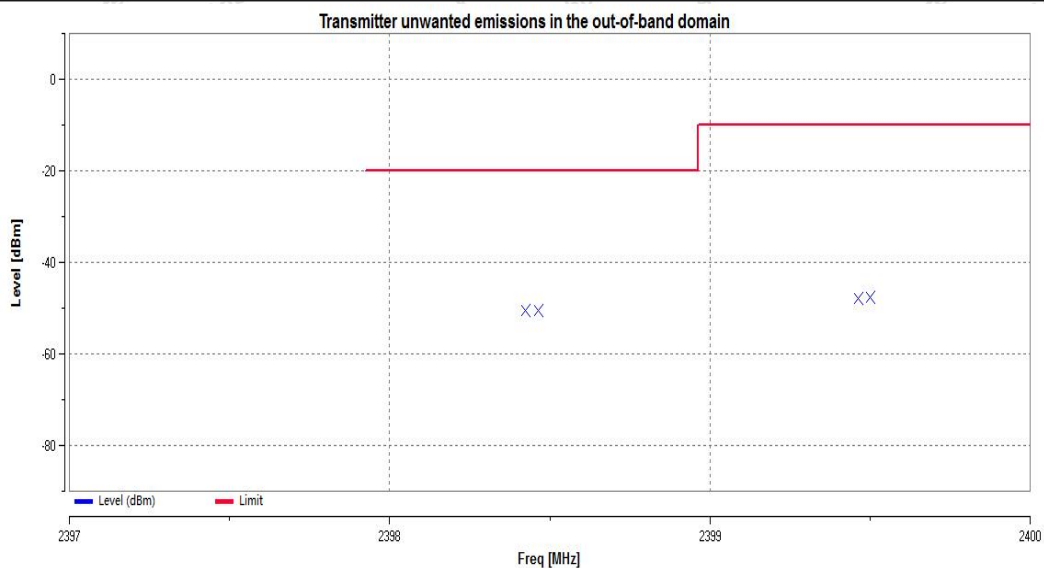
Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2398.4248	-50.59	-20.00	PASS
			2398.4624	-50.56	-20.00	PASS
			2399.4624	-47.90	-10.00	PASS
			2399.5000	-47.67	-10.00	PASS
		2480	2484.0000	-50.62	-10.00	PASS
			2484.0381	-50.62	-10.00	PASS
			2485.0381	-50.77	-20.00	PASS
			2485.0762	-50.80	-20.00	PASS
BLE_2M	Ant1	2402	2396.4072	-51.36	-20.00	PASS
			2396.4536	-51.34	-20.00	PASS
			2397.4536	-50.97	-20.00	PASS
			2398.4536	-49.93	-10.00	PASS
			2398.5000	-49.82	-10.00	PASS
			2399.5000	-42.88	-10.00	PASS
		2480	2484.0000	-50.30	-10.00	PASS
			2485.0000	-50.72	-10.00	PASS
			2485.0468	-50.70	-10.00	PASS
			2486.0468	-51.01	-20.00	PASS
			2487.0468	-51.19	-20.00	PASS
			2487.0936	-51.19	-20.00	PASS

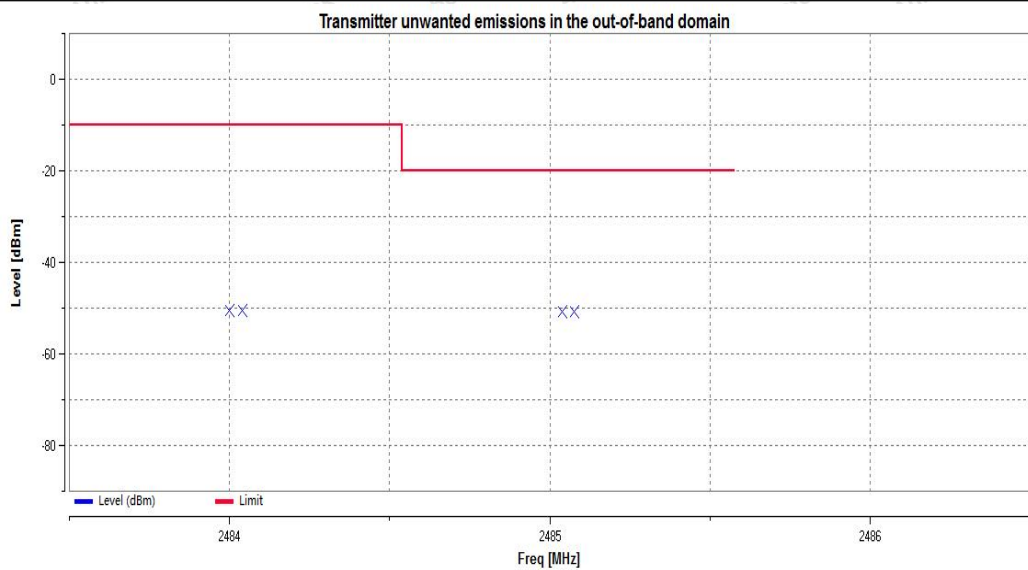


Test Graphs

BLE_1M_Ant1_2402_2400MHz-2BW to 2400MHz



BLE_1M_Ant1_2480_2483.5MHz to 2483.5MHz+2BW



BLE_2M_Ant1_2402_2400MHz-2BW to 2400MHz

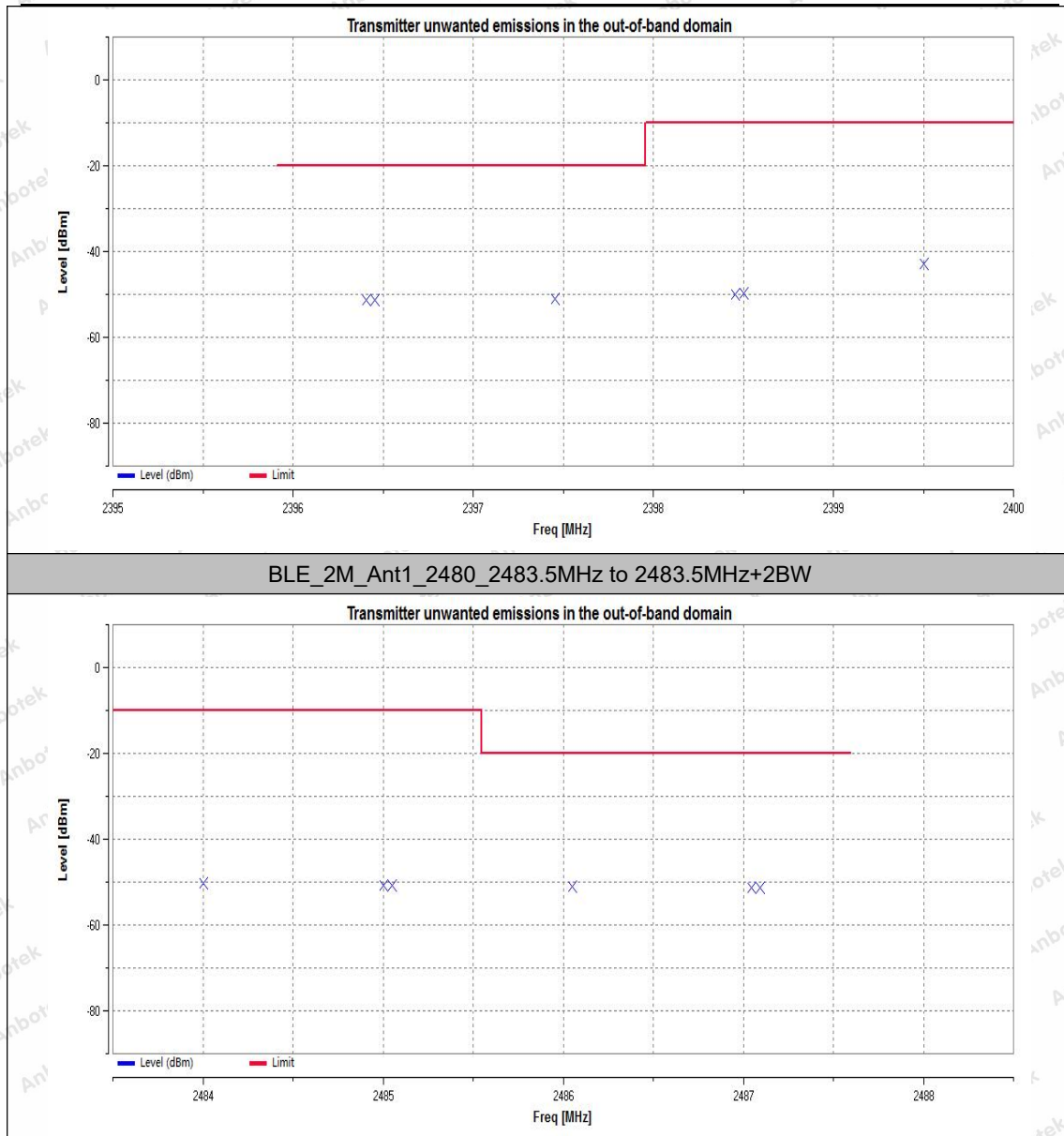
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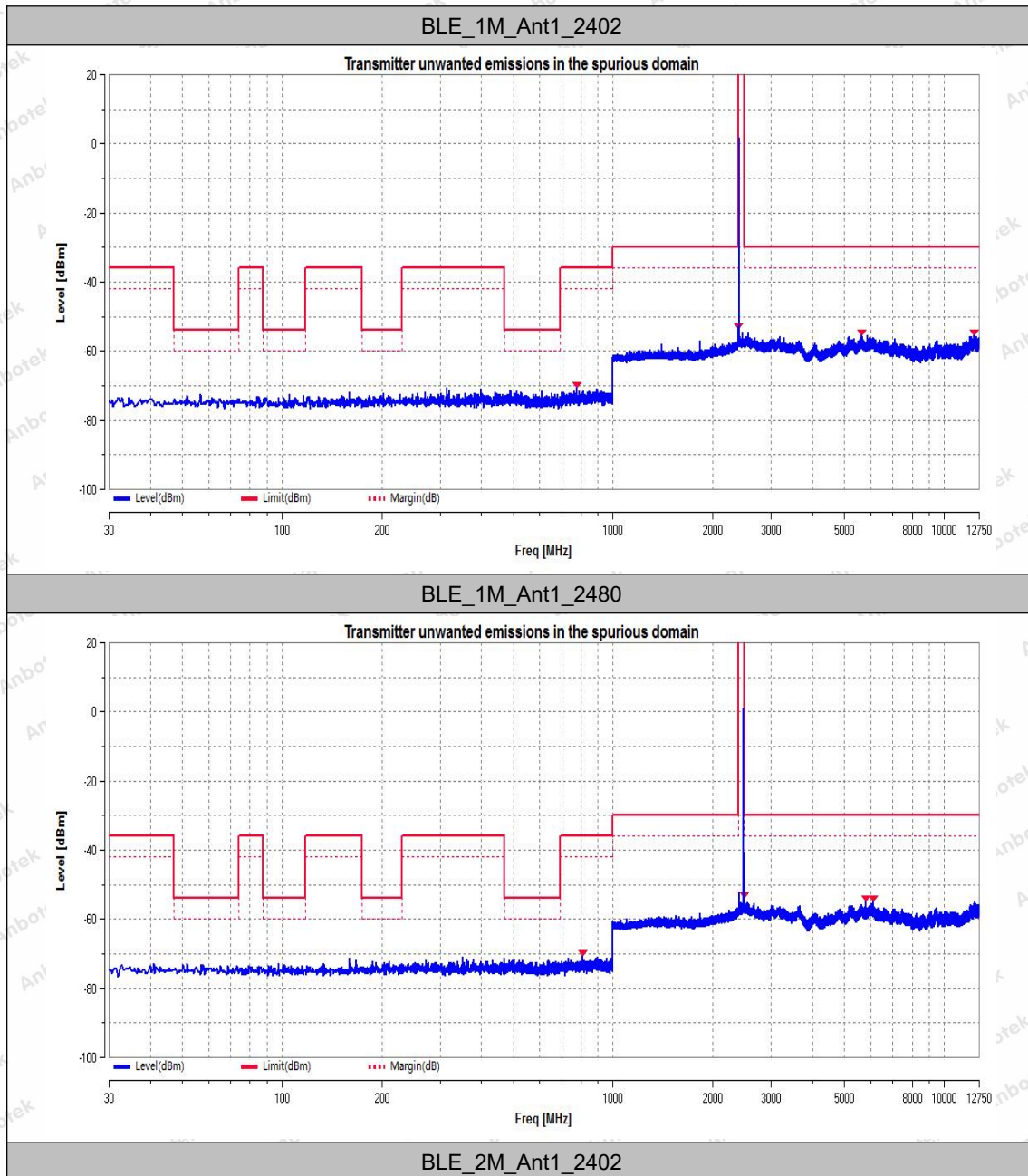
Appendix E: Transmitter unwanted emissions in the spurious domain

Test Result-Pre-scan

Test Mode	Antenna	Frequency[MHz]	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	777.87	-70.48	-36	PASS
			2397.67	-53.43	-30	PASS
			5640.90	-55.39	-30	PASS
			12345.59	-55.34	-30	PASS
		2480	811.50	-70.53	-36	PASS
			2486.33	-53.91	-30	PASS
			5798.70	-54.79	-30	PASS
			6122.97	-54.85	-30	PASS
BLE_2M	Ant1	2402	843.51	-70.66	-36	PASS
			2395.67	-53.84	-30	PASS
			3202.50	-55.43	-30	PASS
			12185.05	-55.26	-30	PASS
		2480	775.93	-70.71	-36	PASS
			2488.67	-54.94	-30	PASS
			3000.00	-55.19	-30	PASS
			12373.17	-55.55	-30	PASS



Test Graphs-Pre-scan



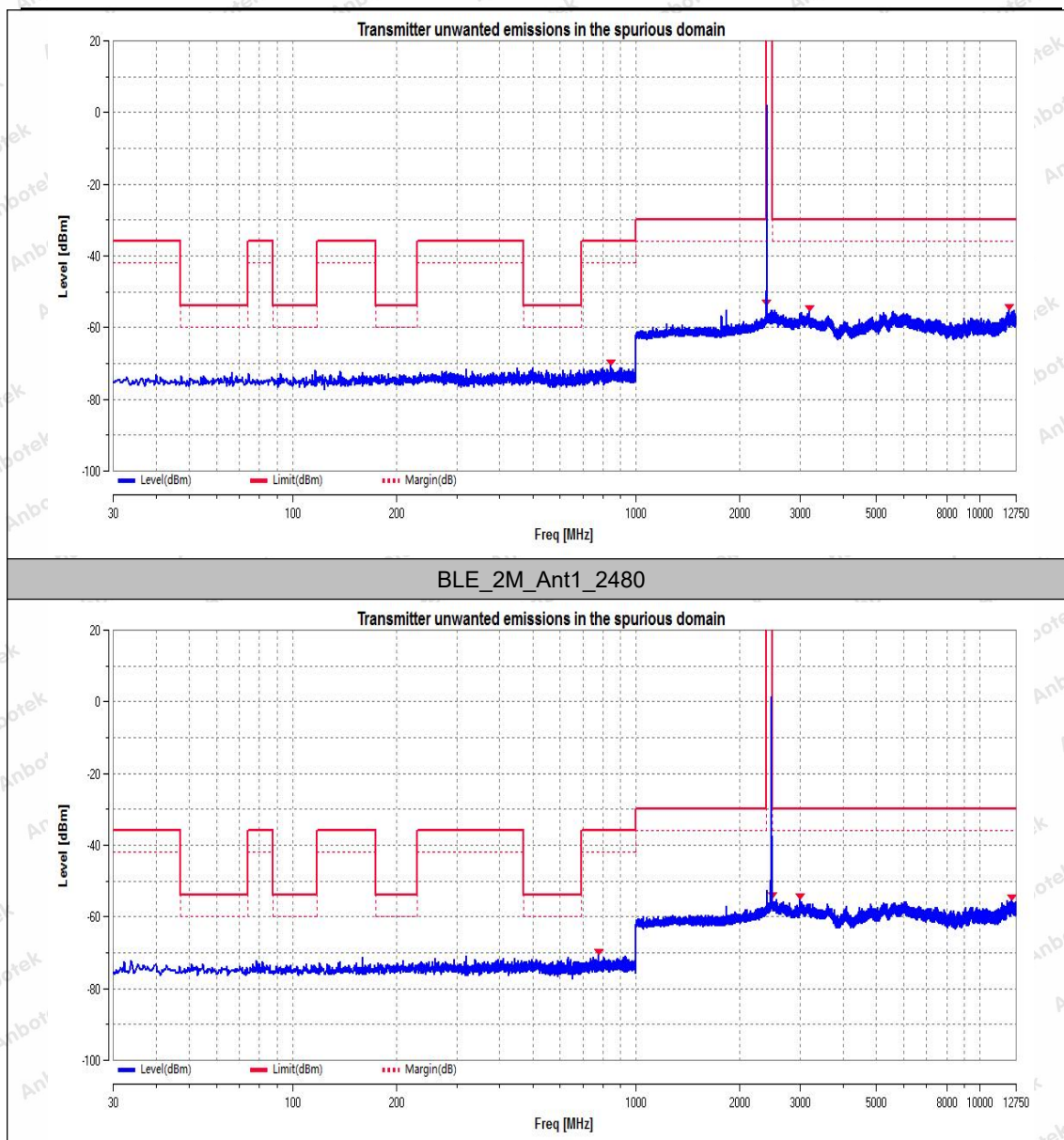
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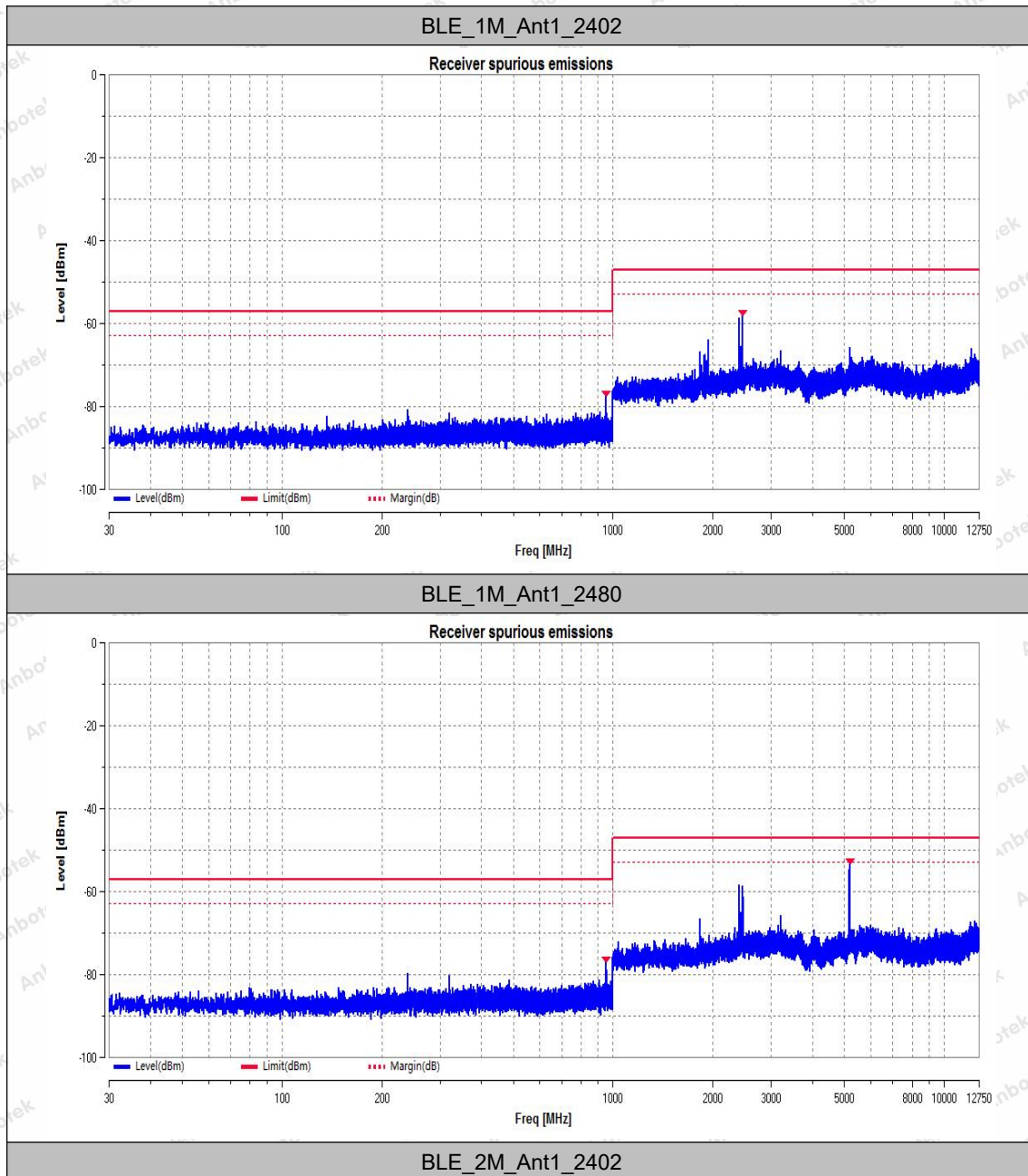
Appendix F: Receiver spurious emissions

Test Result-Pre-scan

Test Mode	Antenna	Frequency[MHz]	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	953.39	-77.53	-57.00	PASS
			2463.66	-58.26	-47.00	PASS
		2480	951.21	-77.08	-57.00	PASS
			5183.78	-53.34	-47.00	PASS
BLE_2M	Ant1	2402	950.82	-77.05	-57.00	PASS
			2402.17	-58.22	-47.00	PASS
		2480	899.90	-74.07	-57.00	PASS
			2590.95	-54.62	-47.00	PASS



Test Graphs-Pre-scan



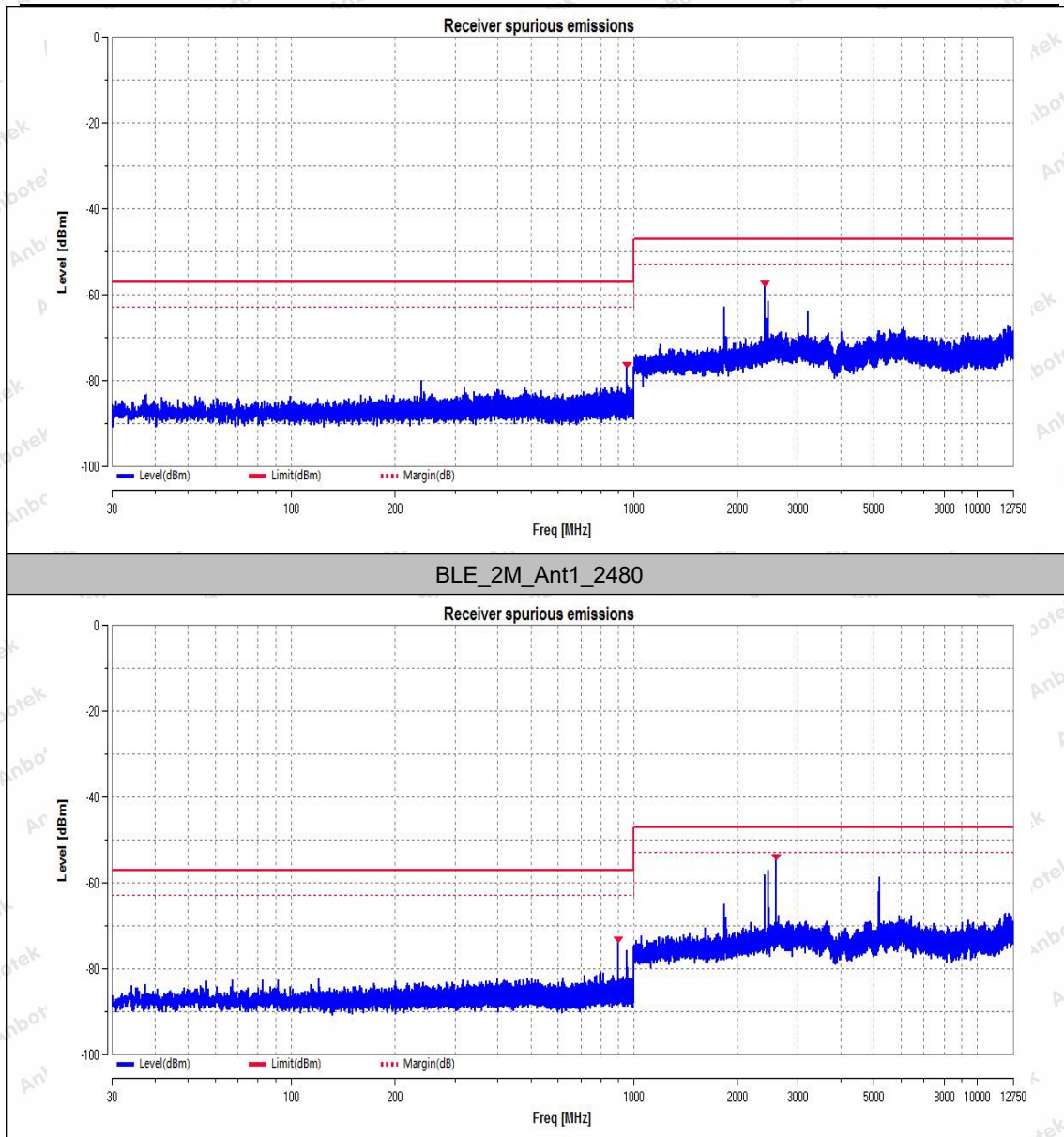
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