

Appendix Test Data for BLE (Conducted Measurement)

Product Name: wireless headphone

Trade Mark: N/A

Test Model: 2717

FCC ID: 2BHIM-2717

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	55.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth& Occupied Channel Bandwidth

Test Result

Test Mode	Test Frequency	Occupied Bandwidth (MHz)	DTS BW (MHz)	DTS BW Limits	Pass or Fail
GFSK_1Mbps	2402	1.024	0.506	≥ 0.5	Pass
	2440	1.024	0.508	≥ 0.5	Pass
	2480	1.023	0.505	≥ 0.5	Pass

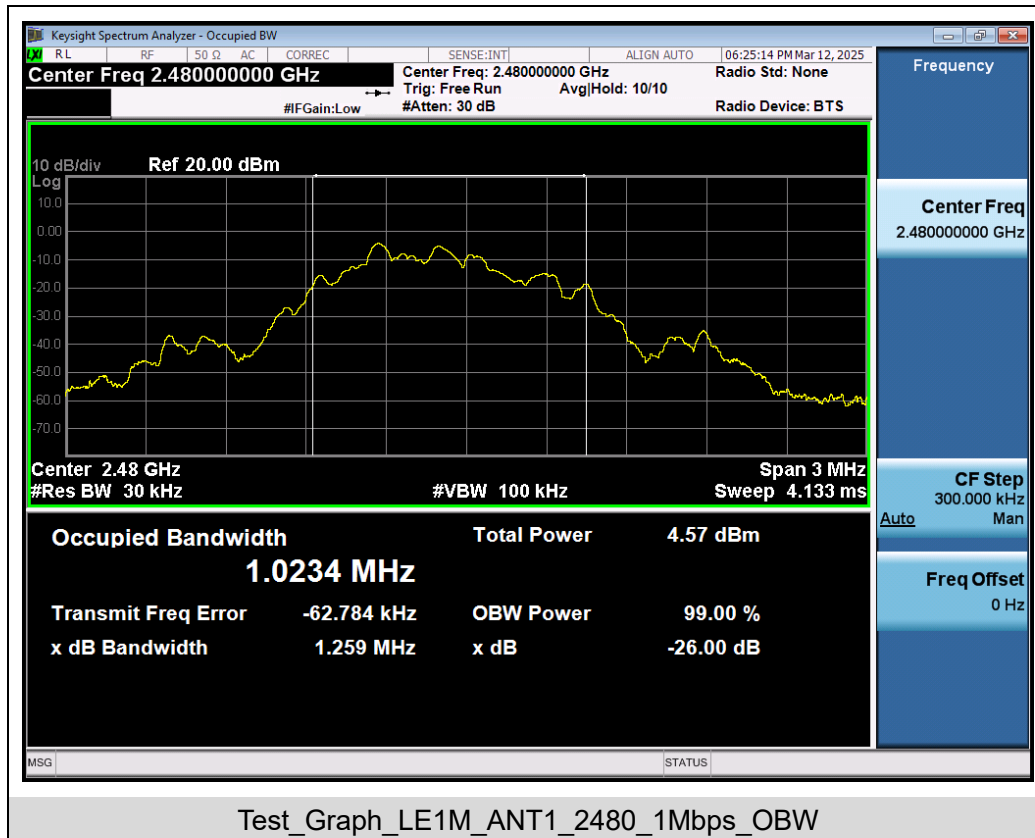
Test Graphs



Test_Graph_LE1M_ANT1_2402_1Mbps_OBW



Test_Graph_LE1M_ANT1_2440_1Mbps_OBW



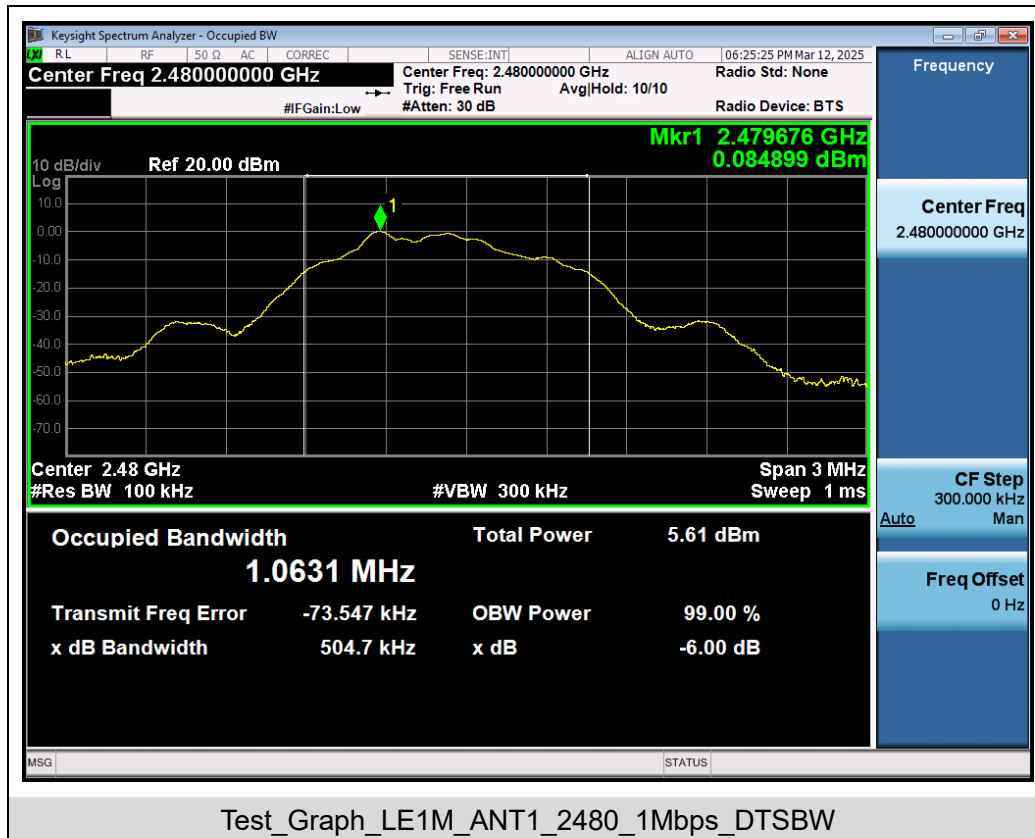
Test Graphs of DTS Bandwidth



Test_Graph_LE1M_ANT1_2402_1Mbps_DTSBW



Test_Graph_LE1M_ANT1_2440_1Mbps_DTSBW

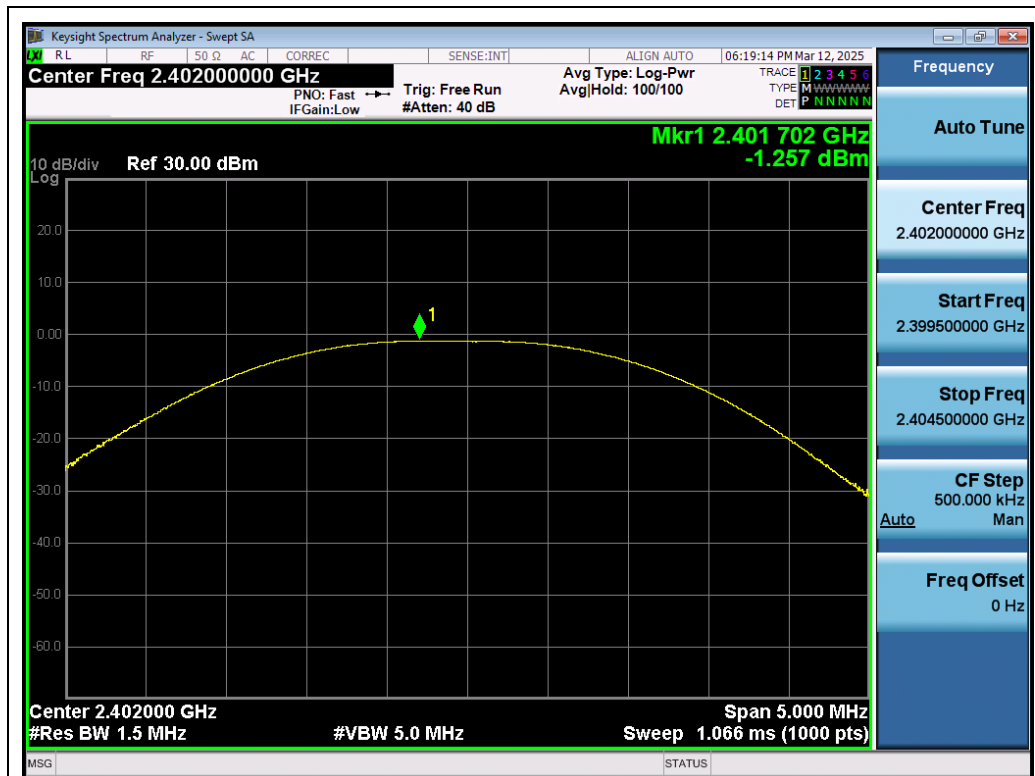


Appendix B: Maximum peak conducted output power

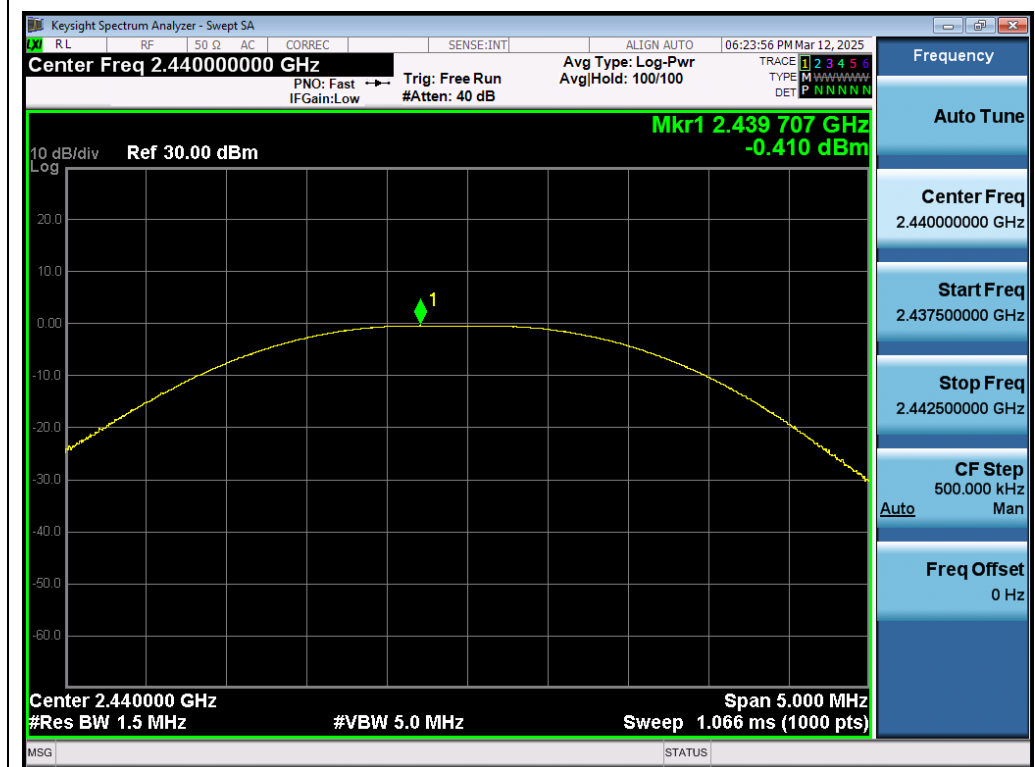
Test Result Peak

Test Mode	Test Frequency (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
GFSK_1Mbps	2402	-1.257	≤ 30	Pass
	2440	-0.410	≤ 30	Pass
	2480	0.159	≤ 30	Pass

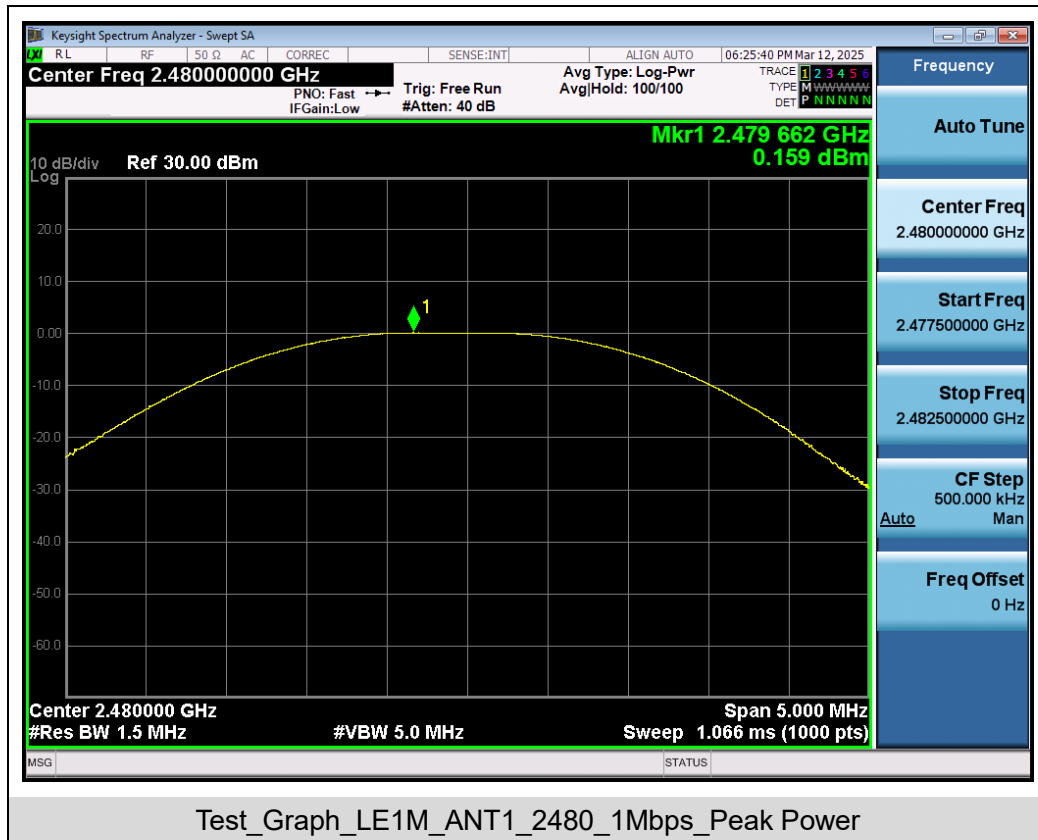
Test Graphs Peak



Test_Graph_LE1M_ANT1_2402_1Mbps_Peak Power



Test_Graph_LE1M_ANT1_2440_1Mbps_Peak Power

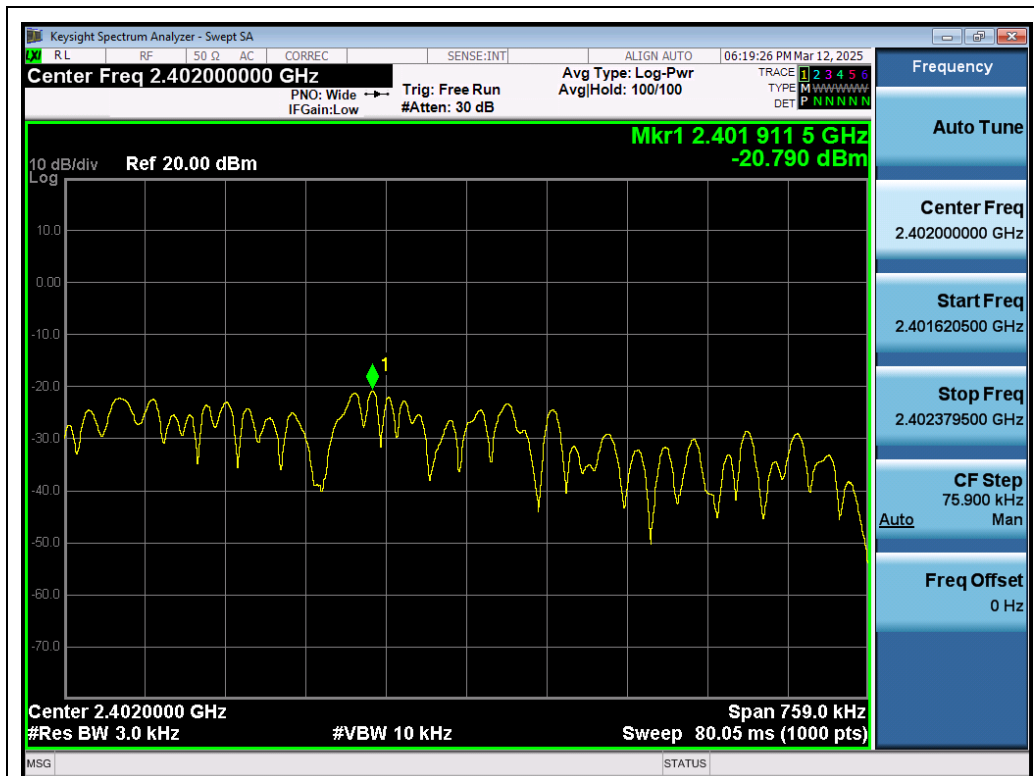


Appendix C: Maximum peak power spectral density

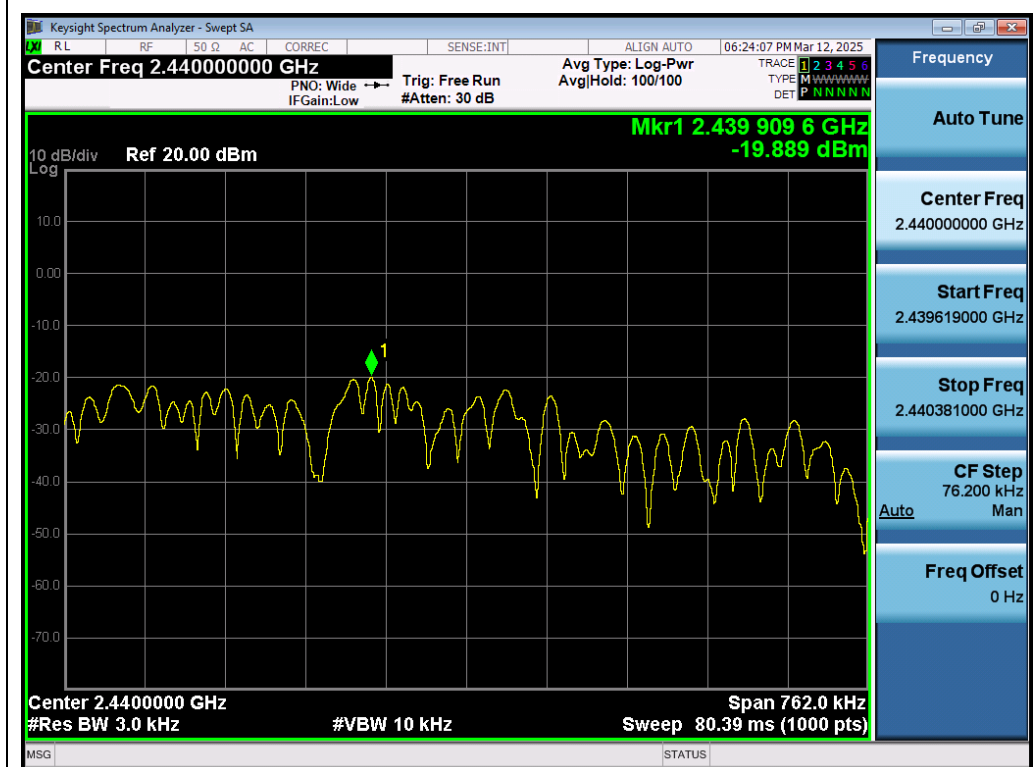
Test Result

Test Mode	Test Frequency (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
GFSK_1Mbps	2402	-20.790	≤ 8	Pass
	2440	-19.889	≤ 8	Pass
	2480	-19.188	≤ 8	Pass

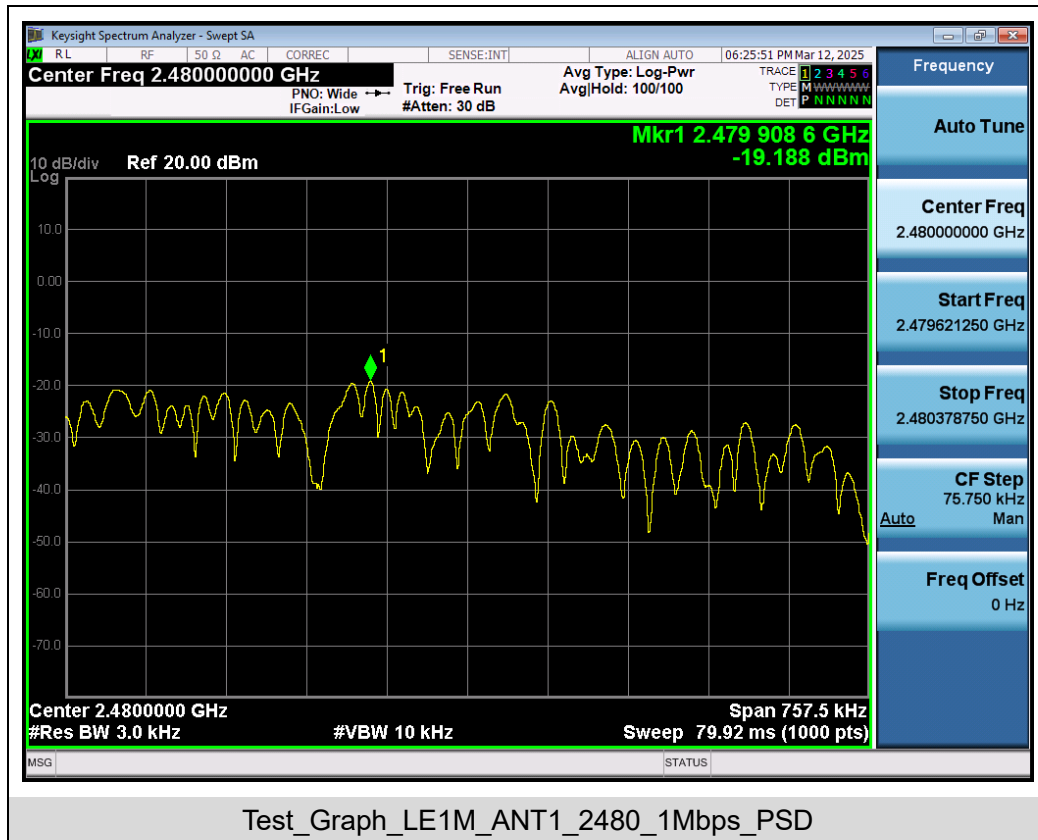
Test Graphs



Test_Graph_LE1M_ANT1_2402_1Mbps_PSD



Test_Graph_LE1M_ANT1_2440_1Mbps_PSD

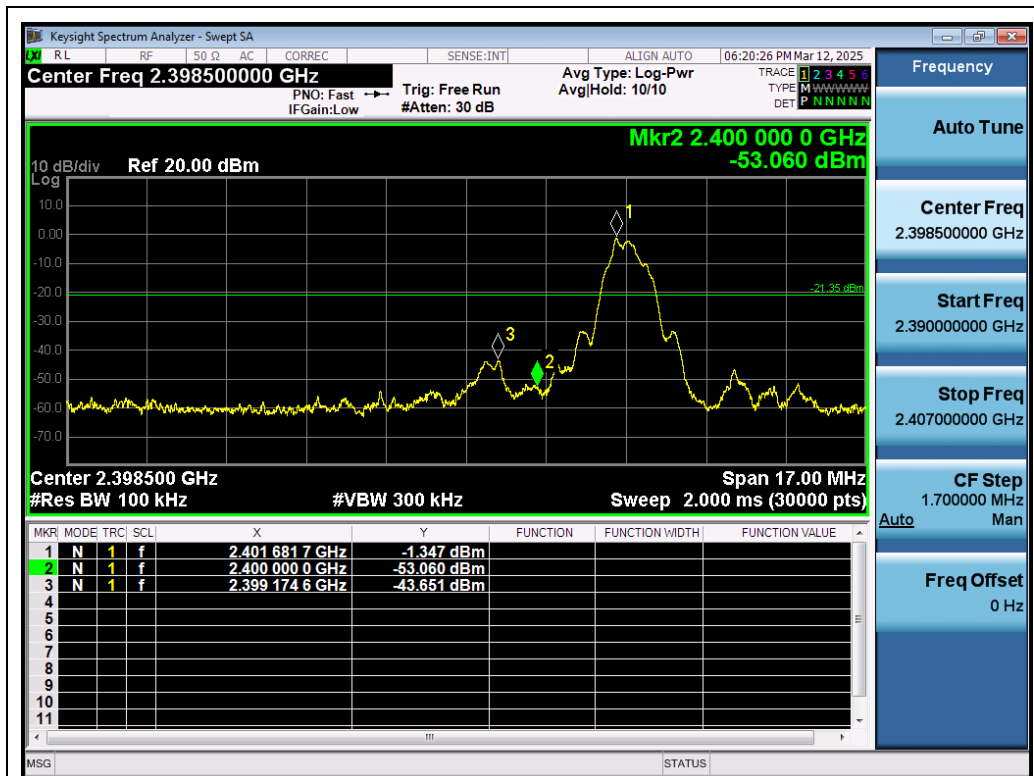


Appendix D: Band edge measurements

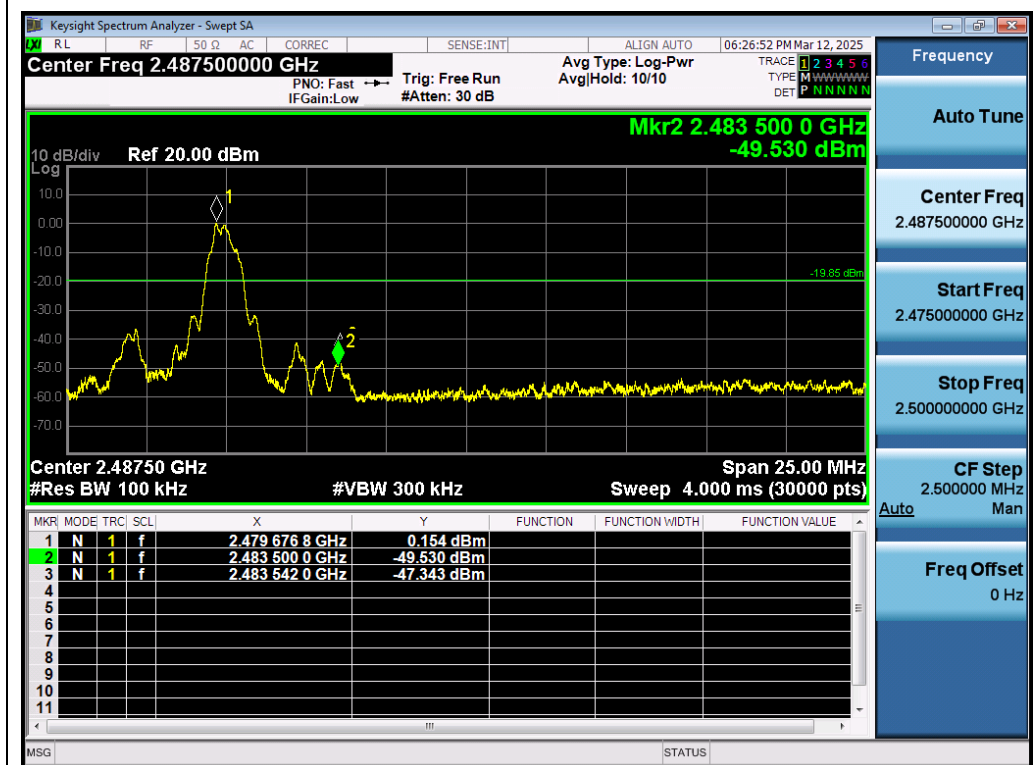
Test Result

Test Mode	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Low	2402	-1.347	-53.060	≤ -15.59	PASS
BLE_1M	High	2480	0.154	-49.530	≤ -17.26	PASS

Test Graphs



Test_Graph_LE1M_ANT1_2402_1Mbps_Lower Band Edge Emissions



Test_Graph_LE1M_ANT1_2480_1Mbps_Higher Band Edge Emissions

Appendix E: Conducted Spurious Emission

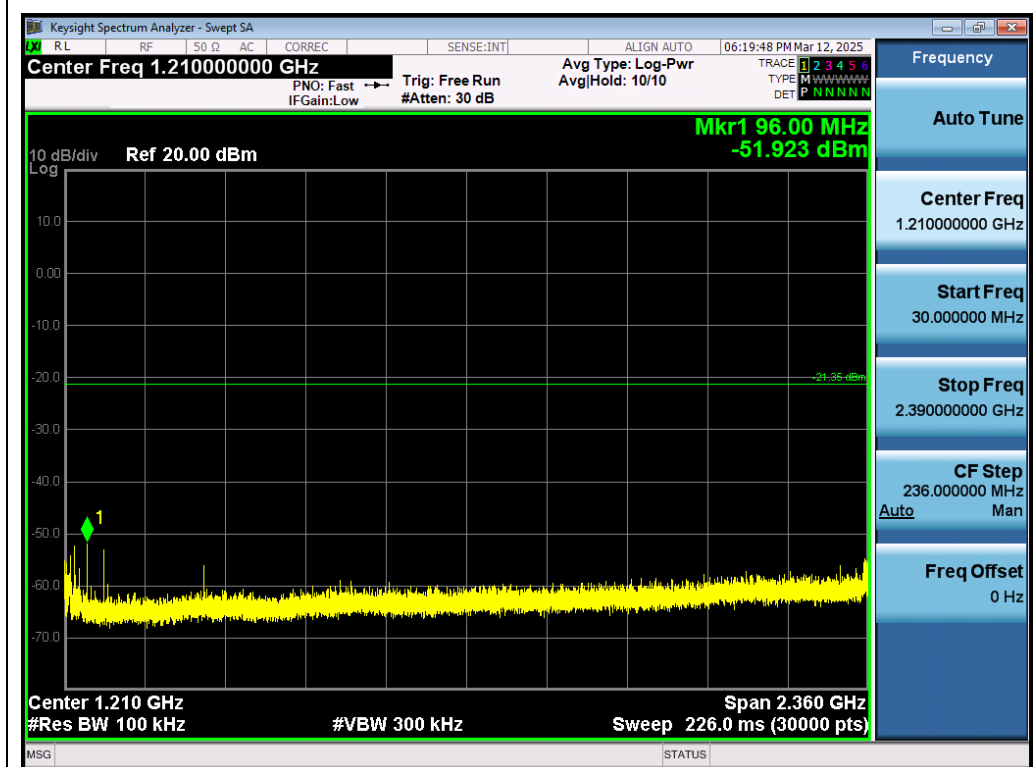
Test Result

Test Mode	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	2402	0~Reference	-1.354	-1.354	---	PASS
BLE_1M	2402	30~2390	-1.354	-51.923	≤ -15.59	PASS
BLE_1M	2402	2483.5~25000	-1.354	-46.586	≤ -15.59	PASS
BLE_1M	2440	0~Reference	-0.534	-0.534	---	PASS
BLE_1M	2440	30~2400	-0.534	-52.015	≤ -16.13	PASS
BLE_1M	2440	2483.5~25000	-0.534	-47.583	≤ -16.13	PASS
BLE_1M	2480	0~Reference	0.126	0.126	---	PASS
BLE_1M	2480	30~2400	0.126	-51.652	≤ -17.34	PASS
BLE_1M	2480	2500~26500	0.126	-45.373	≤ -17.34	PASS

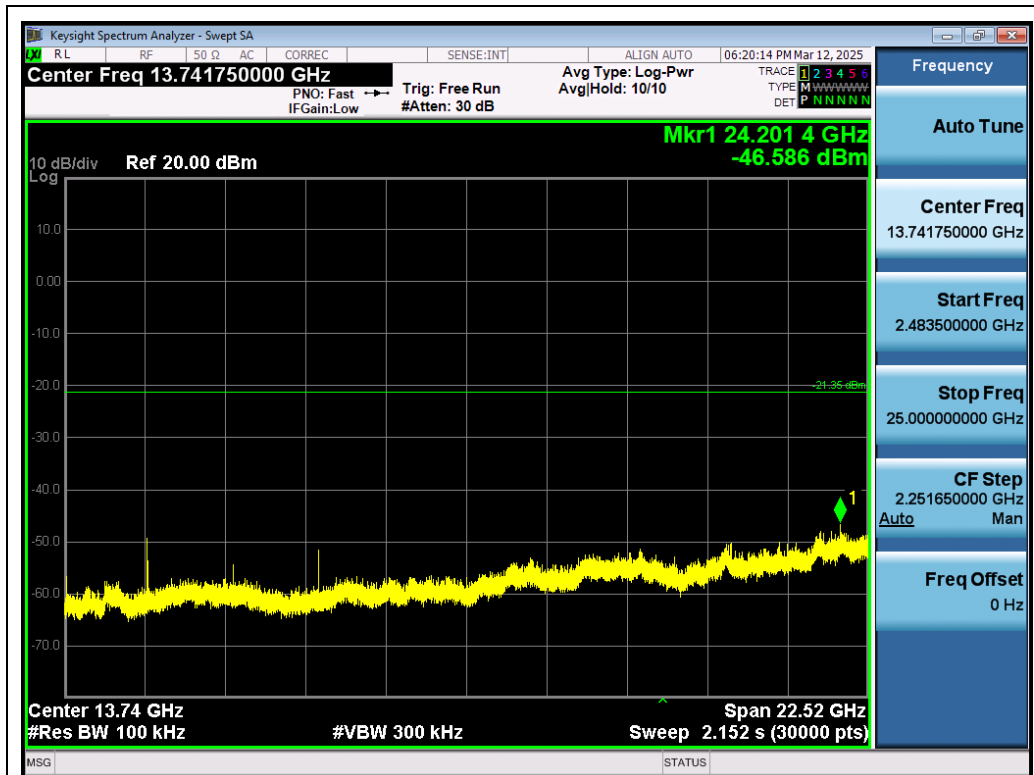
Test Graphs



Test_Graph_LE1M_ANT1_2402_1Mbps_Reference Level



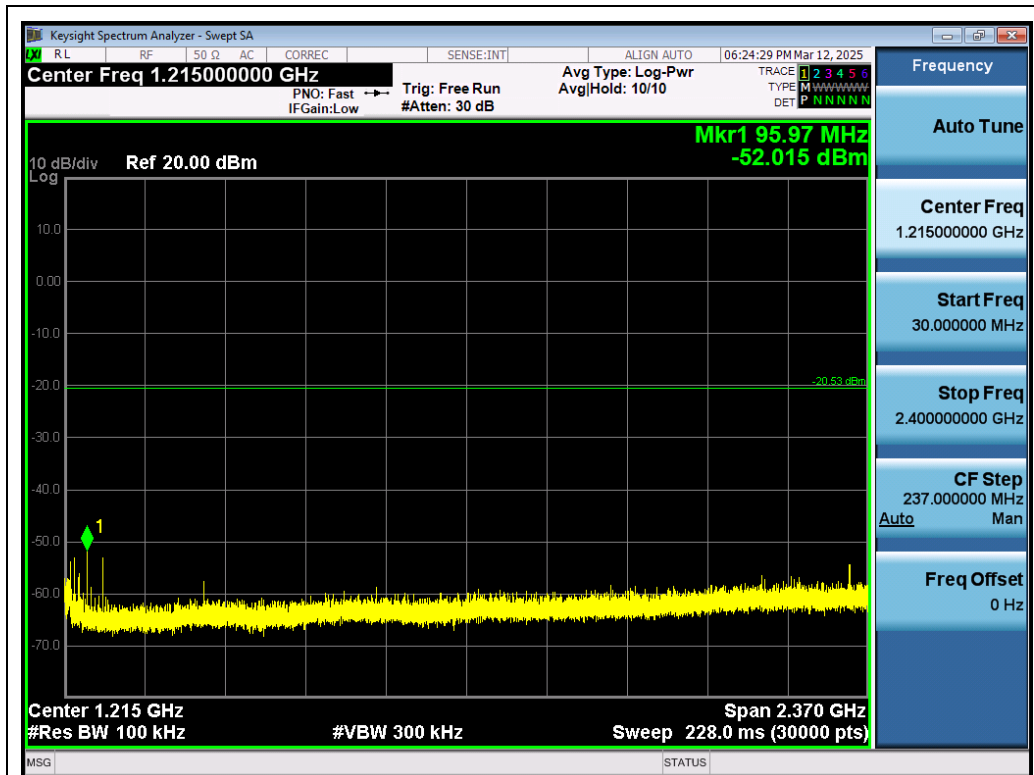
Test_Graph_LE1M_ANT1_2402_1Mbps_Lower Band Emissions



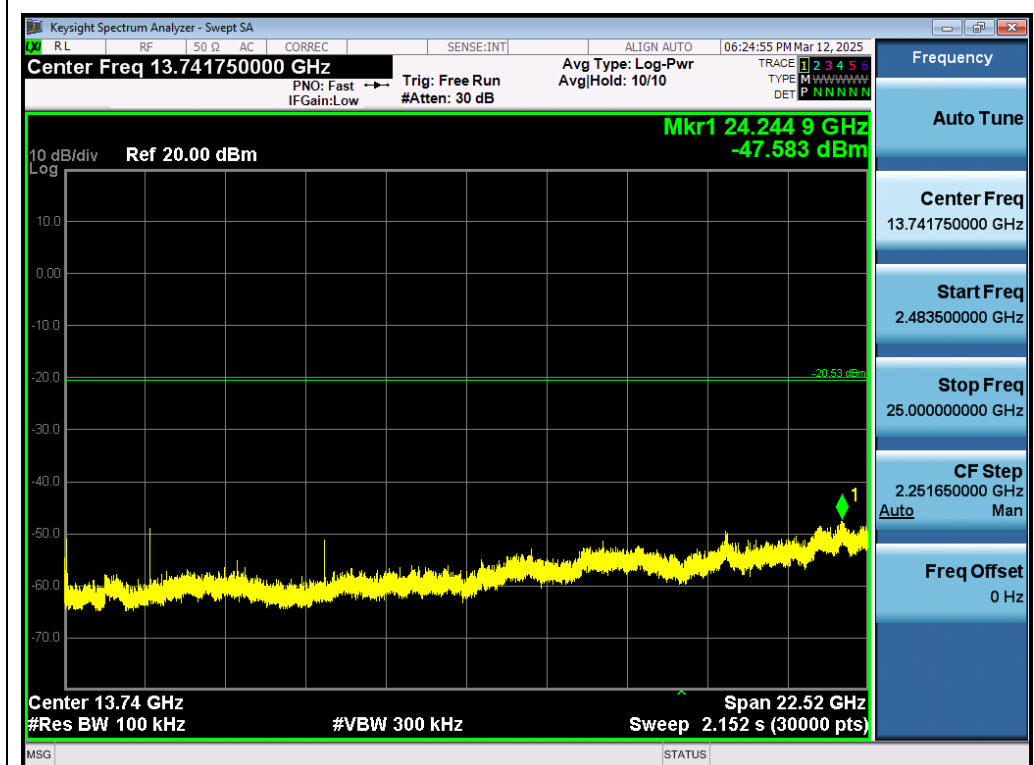
Test_Graph_LE1M_ANT1_2402_1Mbps_Higher Band Emissions



Test_Graph_LE1M_ANT1_2440_1Mbps_Reference Level



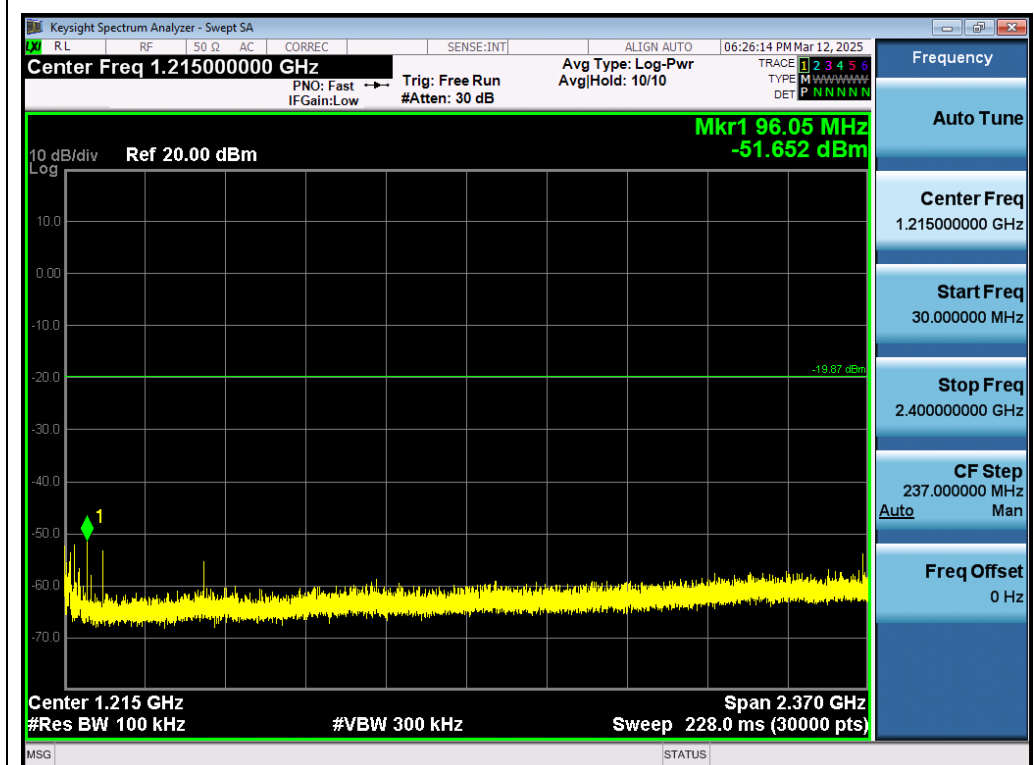
Test_Graph_LE1M_ANT1_2440_1Mbps_Lower Band Emissions



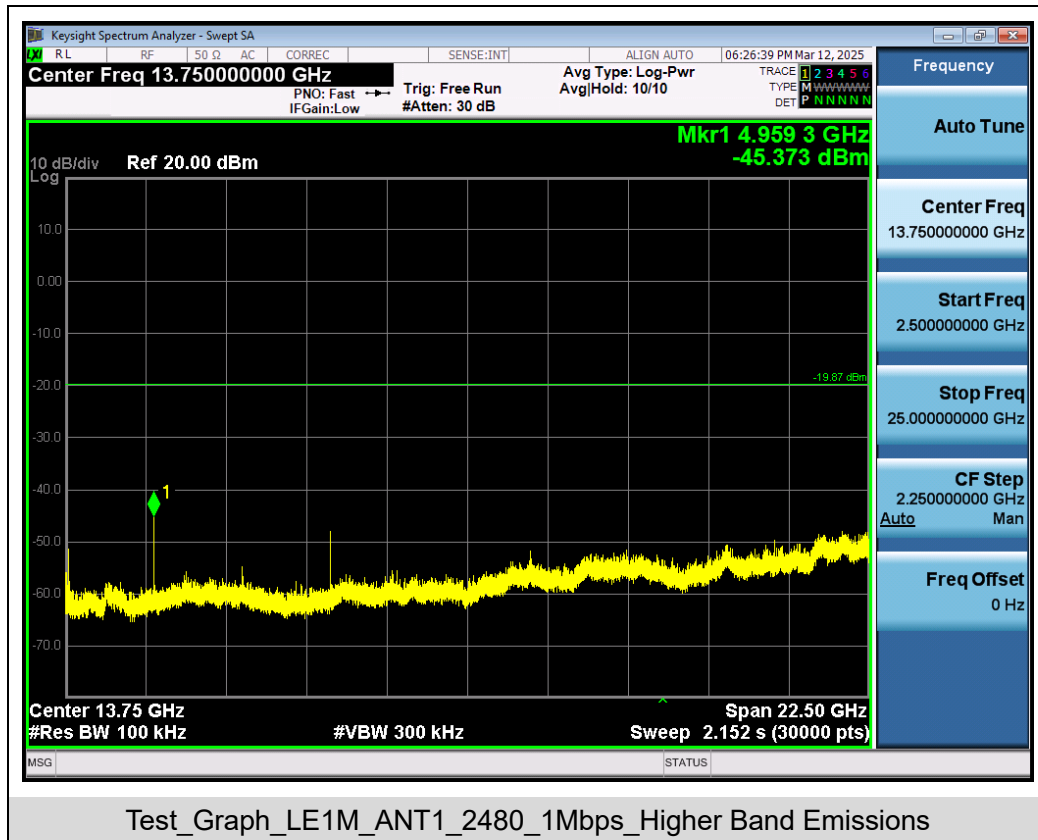
Test_Graph_LE1M_ANT1_2440_1Mbps_Higher Band Emissions



Test_Graph_LE1M_ANT1_2480_1Mbps_Reference Level



Test_Graph_LE1M_ANT1_2480_1Mbps_Lower Band Emissions



Appendix F: Duty Cycle

Test Result

Test Mode	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
BLE_1M	2402	0.09	0.63	14.22	8.47
BLE_1M	2440	0.09	0.1	93.27	0.30
BLE_1M	2480	0.09	0.1	93.27	0.30

Test Graphs

