

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Headphone

Trade Mark: soundcore

Test Model: A6611

FCC ID: 2AOKB-A6611LC

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth & Occupied Channel Bandwidth

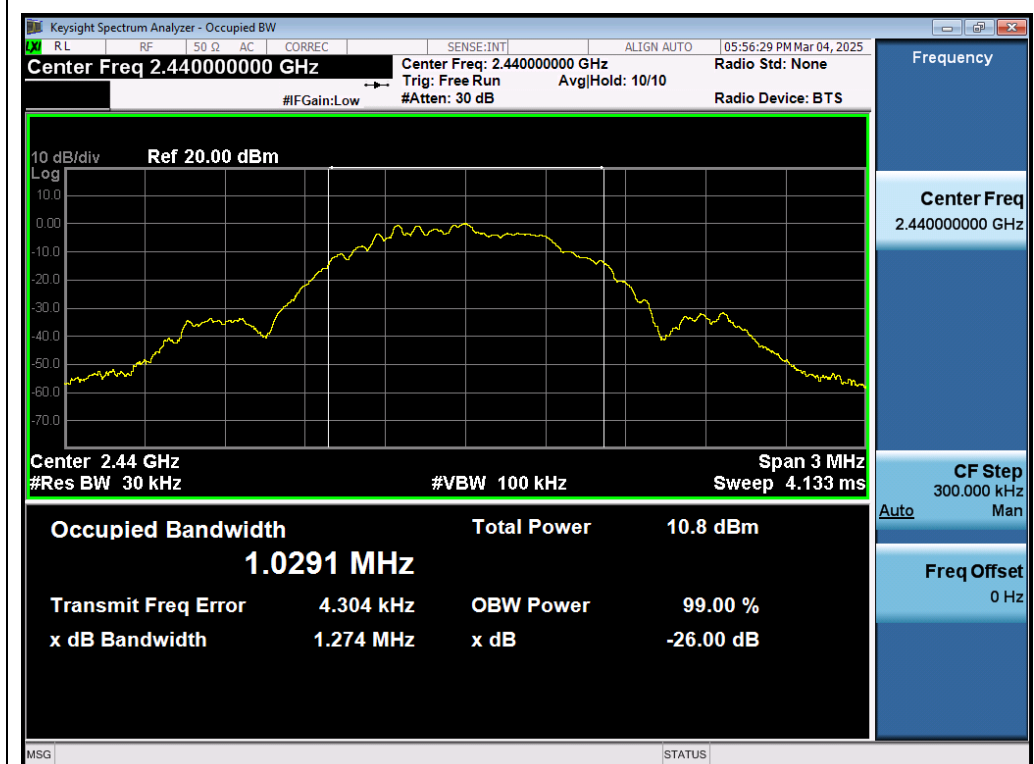
Test Result

Test Mode	Test Frequency	Occupied Bandwidth (MHz)	DTS BW (MHz)	DTS BW Limits	Pass or Fail
GFSK_1Mbps	2402	1.029	0.681	≥0.5	Pass
	2440	1.029	0.678	≥0.5	Pass
	2480	1.026	0.678	≥0.5	Pass
GFSK_2Mbps	2402	2.028	1.168	≥0.5	Pass
	2440	2.028	1.170	≥0.5	Pass
	2480	2.024	1.169	≥0.5	Pass

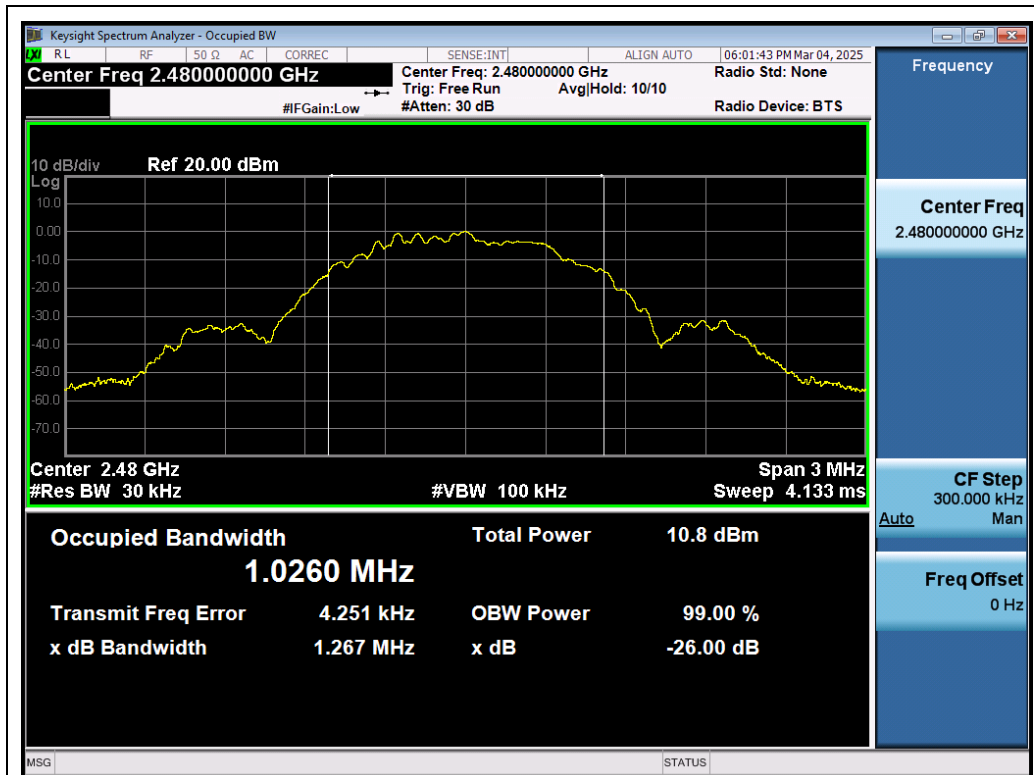
Test Graphs



Test_Graph_LE1M_ANT1_2402_1Mbps_OBW



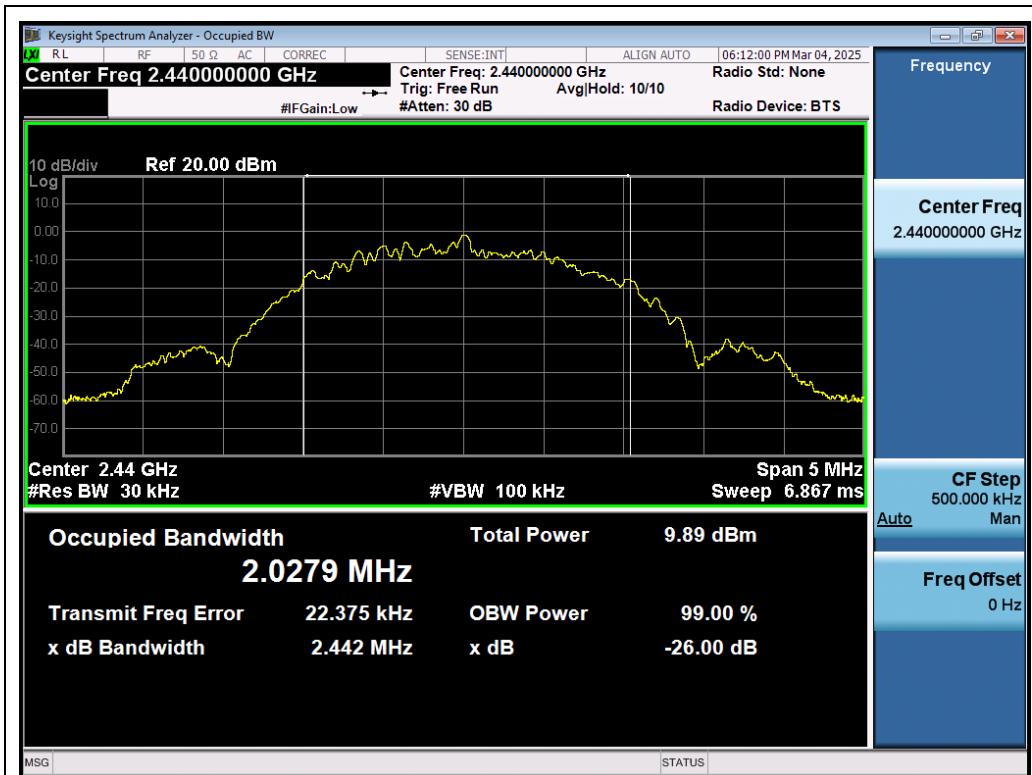
Test_Graph_LE1M_ANT1_2440_1Mbps_OBW



Test_Graph_LE1M_ANT1_2480_1Mbps_OBW



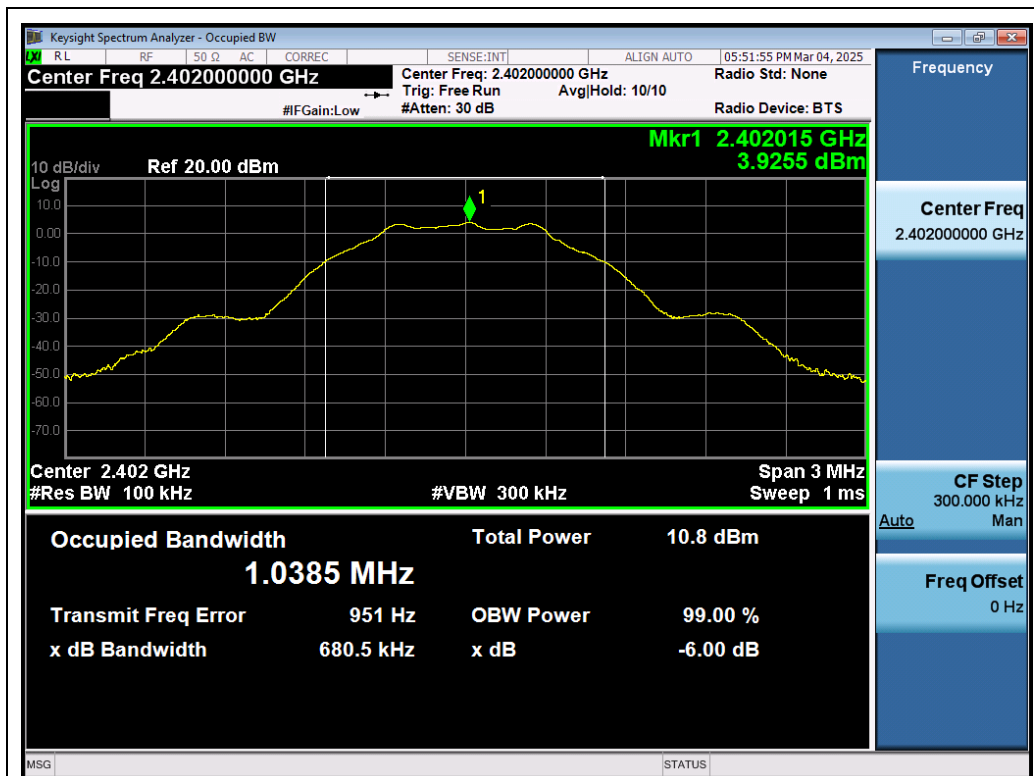
Test_Graph_LE2M_ANT1_2402_2Mbps_OBW



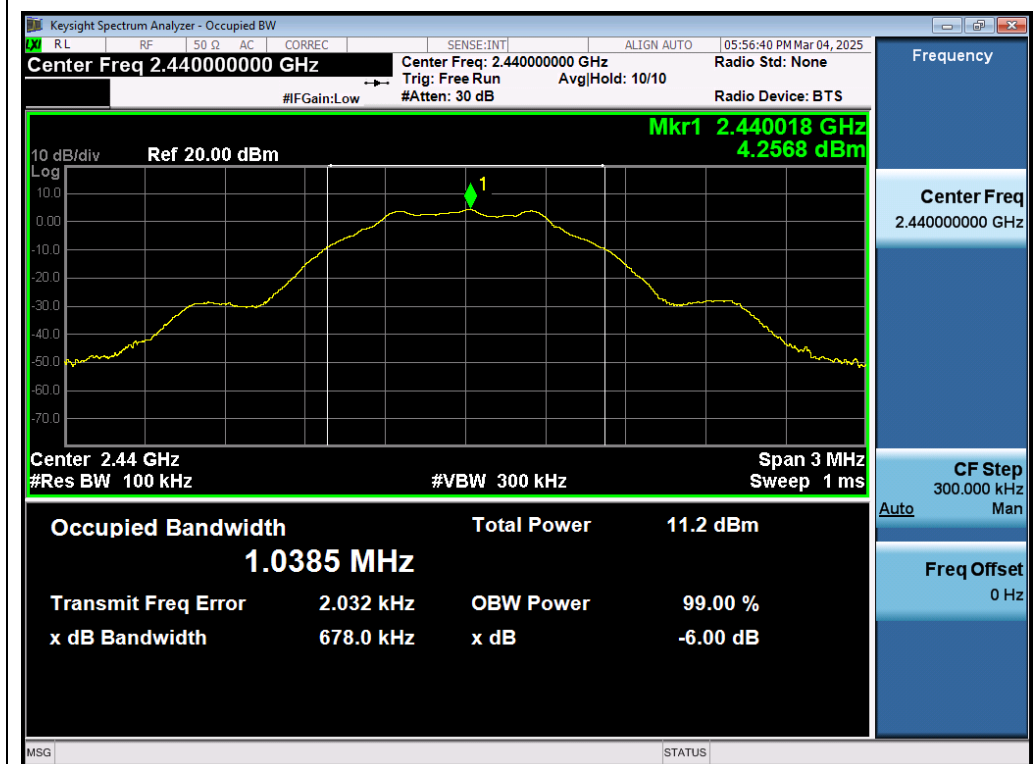
Test_Graph_LE2M_ANT1_2440_2Mbps_OBW



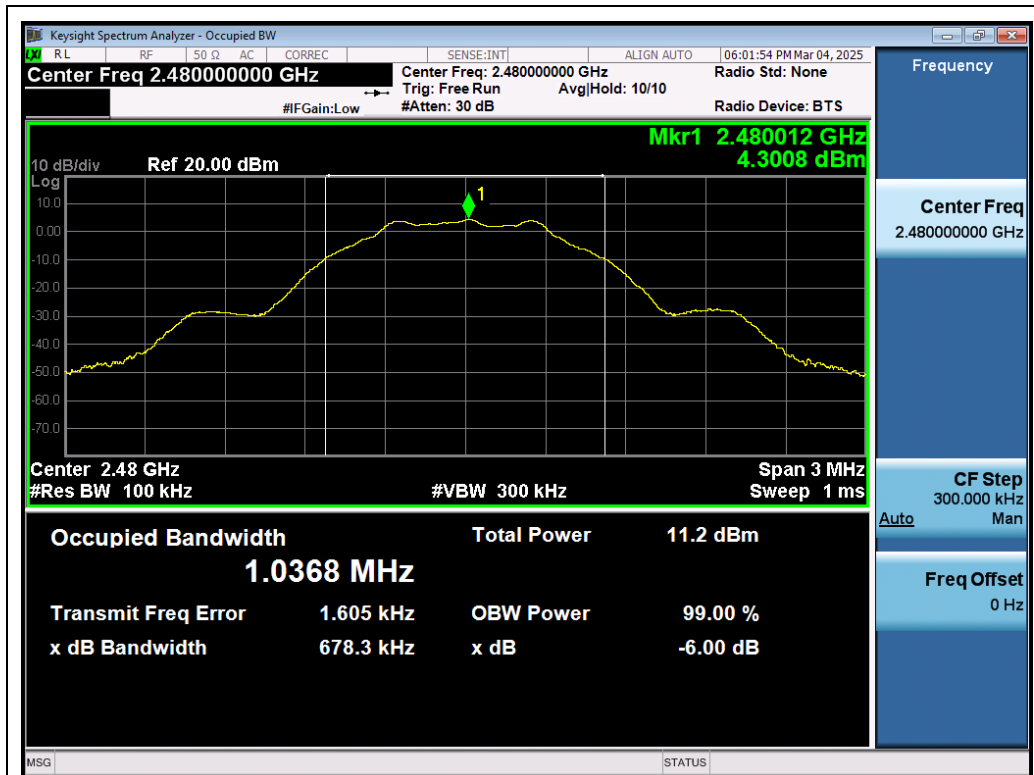
Test_Graph_LE2M_ANT1_2480_2Mbps_OBW



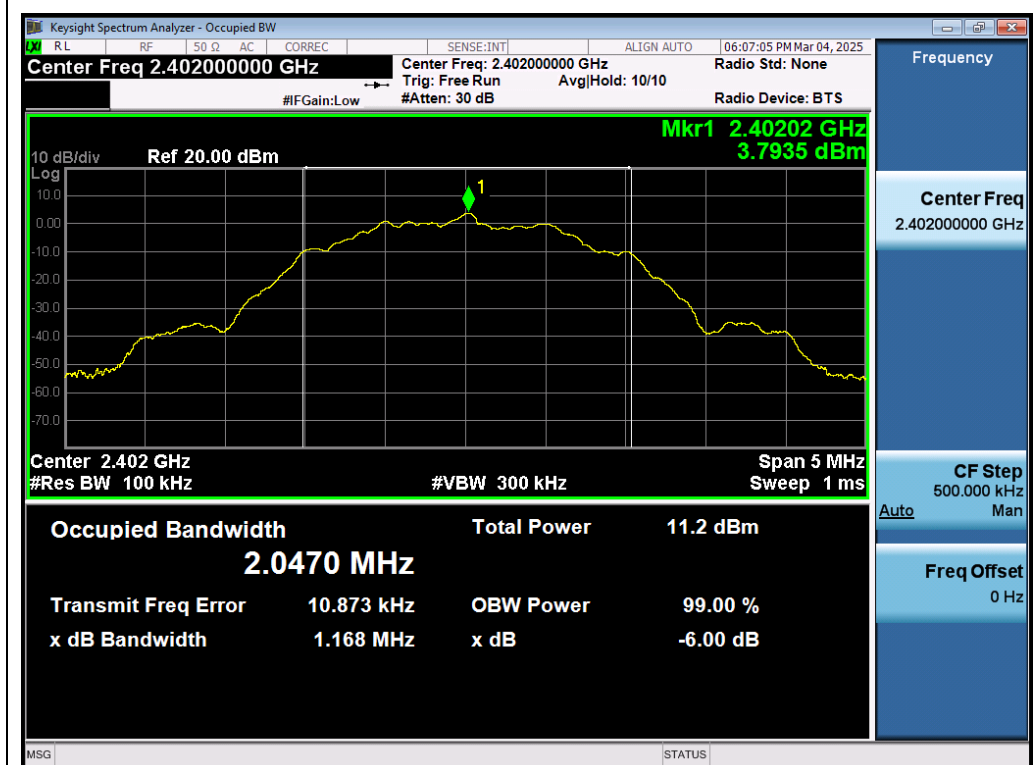
Test_Graph_LE1M_ANT1_2402_1Mbps_DTSBW



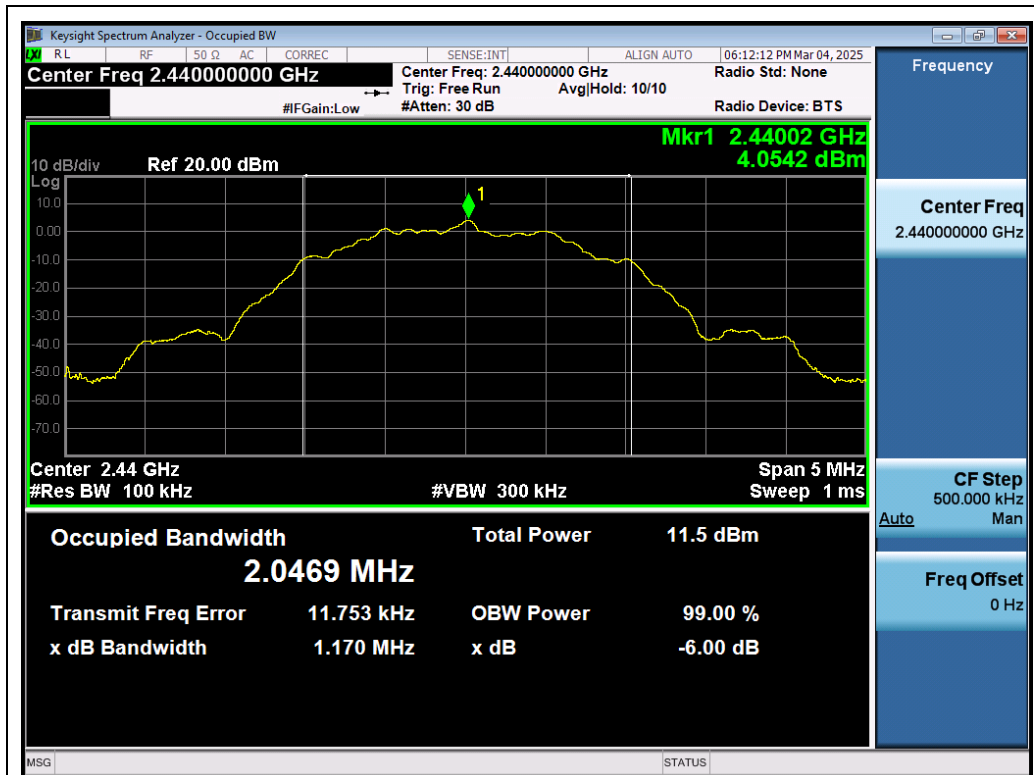
Test_Graph_LE1M_ANT1_2440_1Mbps_DTSBW



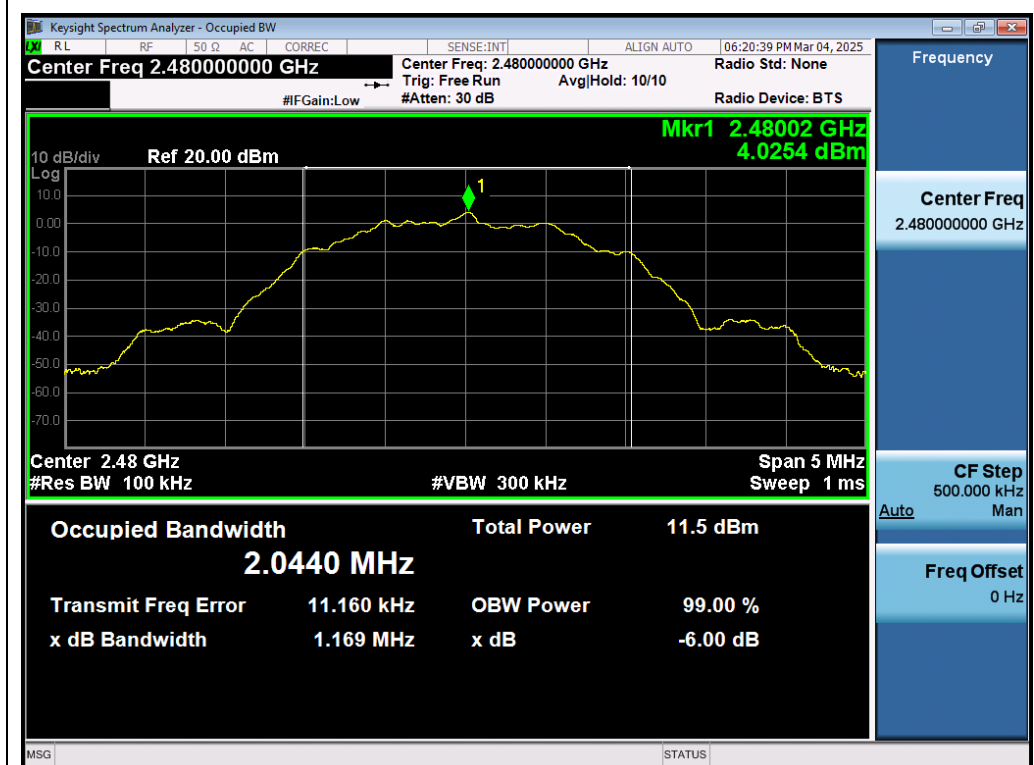
Test_Graph_LE1M_ANT1_2480_1Mbps_DTSSBW



Test_Graph_LE2M_ANT1_2402_2Mbps_DTSSBW



Test_Graph_LE2M_ANT1_2440_2Mbps_DTSSBW



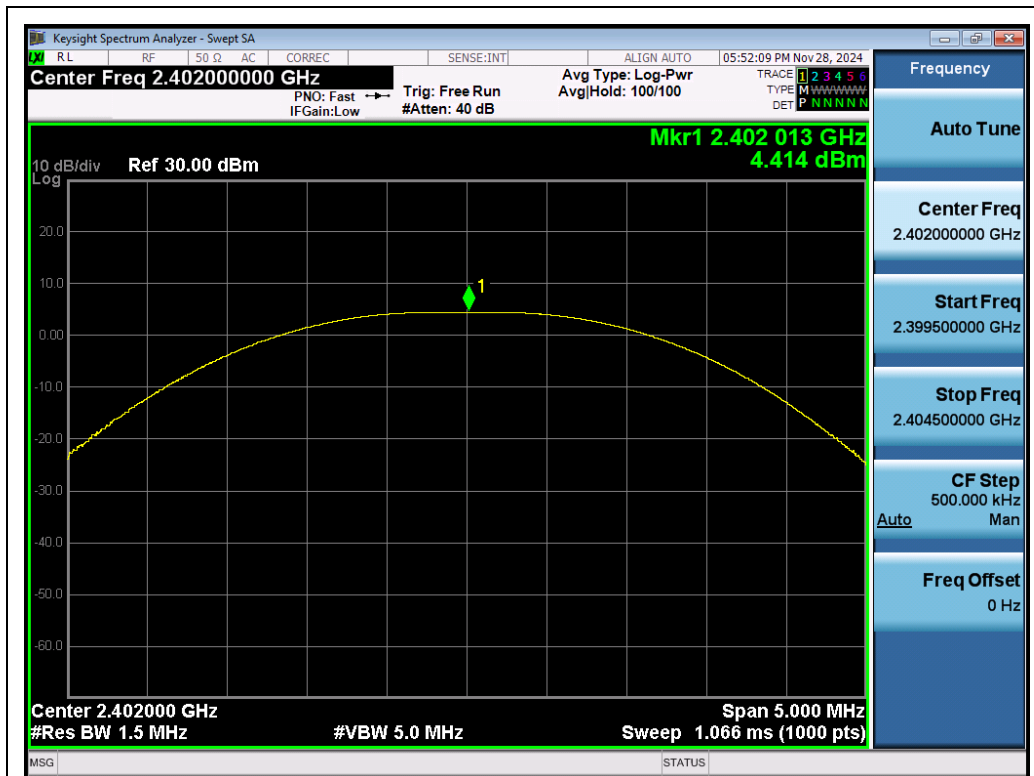
Test_Graph_LE2M_ANT1_2480_2Mbps_DTSSBW

Appendix B: Maximum peak conducted output power

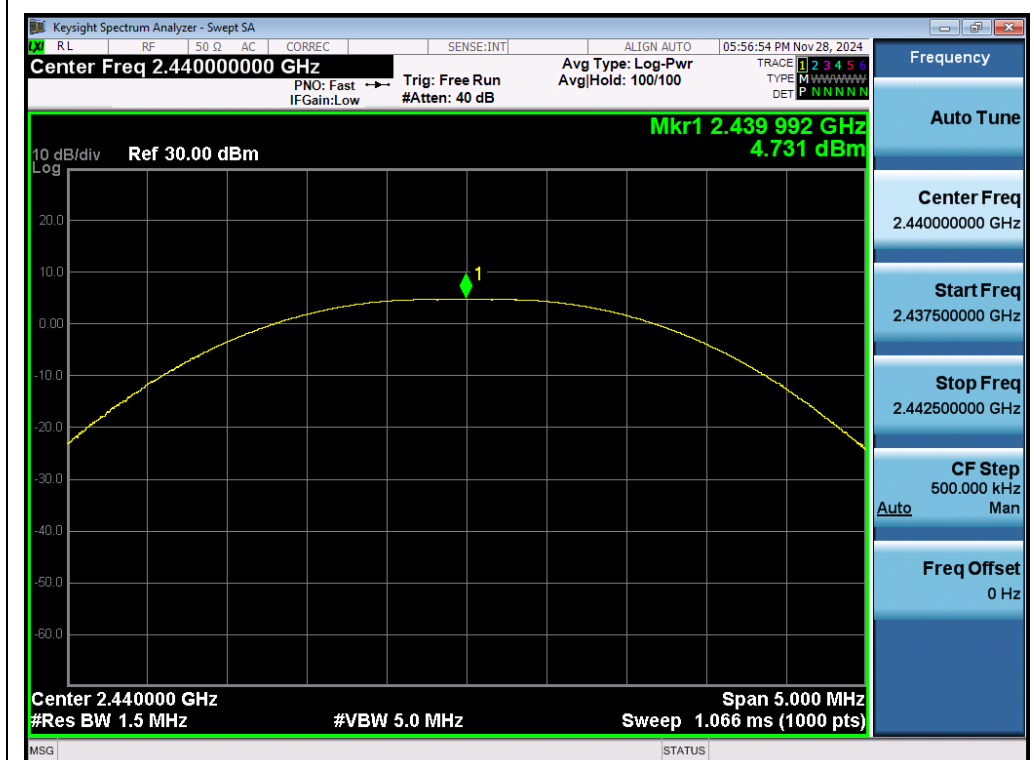
Test Result Peak

Test Mode	Test Frequency (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
GFSK_1Mbps	2402	4.414	≤ 30	Pass
	2440	4.731	≤ 30	Pass
	2480	4.645	≤ 30	Pass
GFSK_2Mbps	2402	4.410	≤ 30	Pass
	2440	4.688	≤ 30	Pass
	2480	4.645	≤ 30	Pass

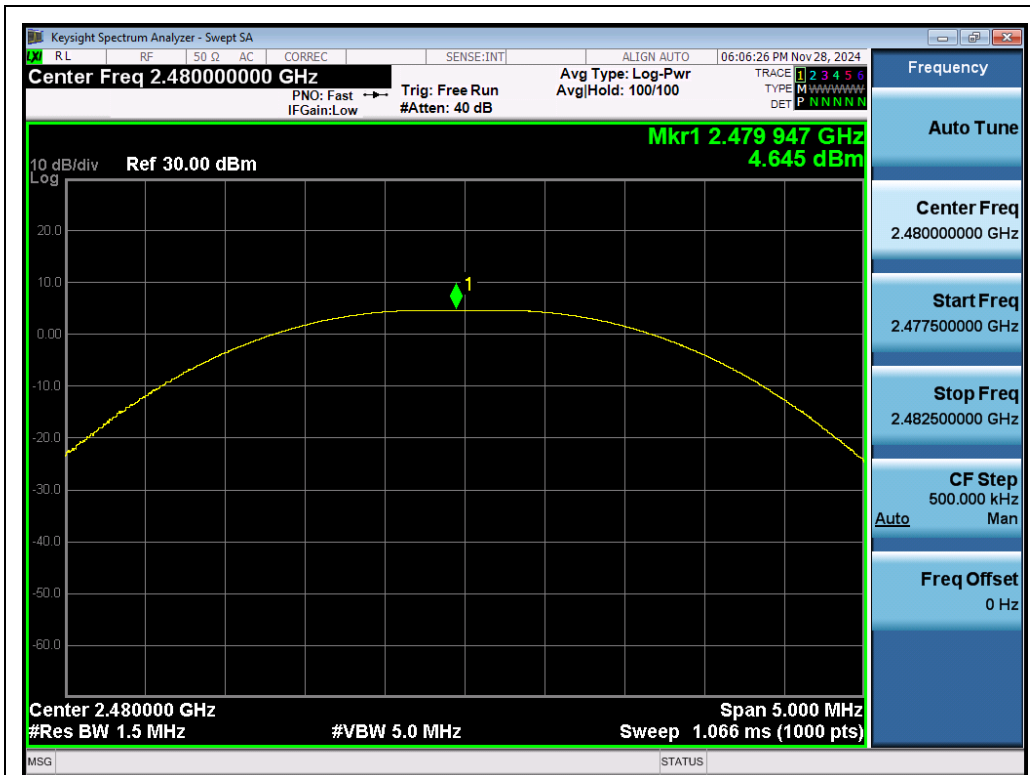
Test Graphs Peak



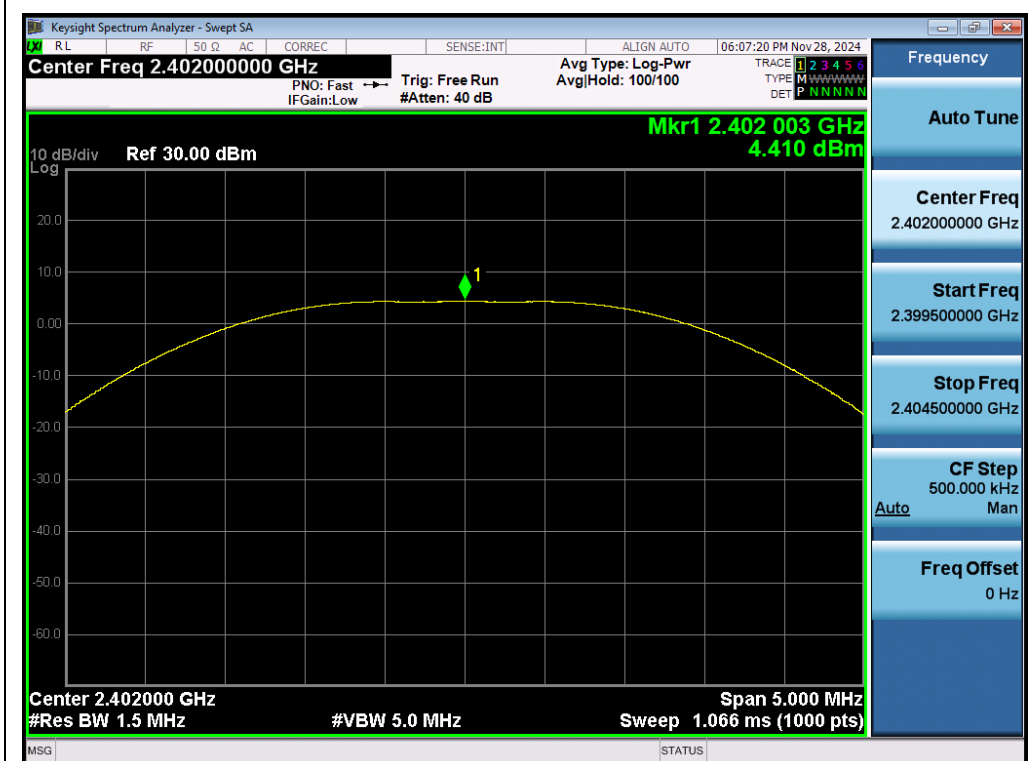
Test_Graph_LE1M_ANT1_2402_1Mbps_Peak Power



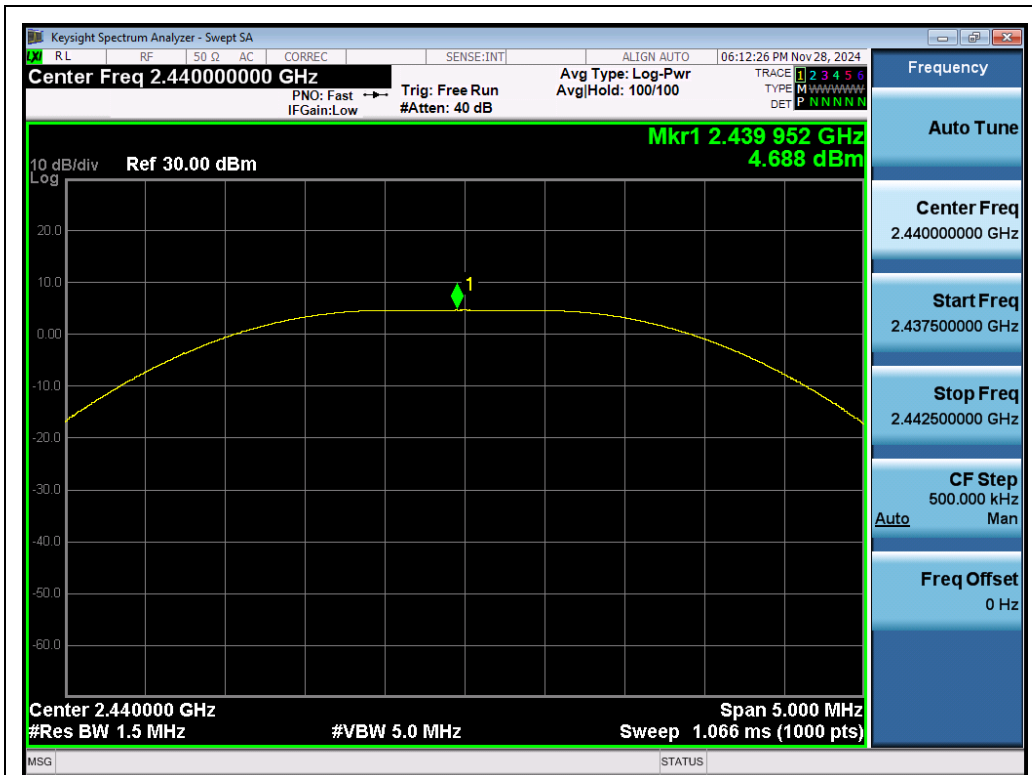
Test_Graph_LE1M_ANT1_2440_1Mbps_Peak Power



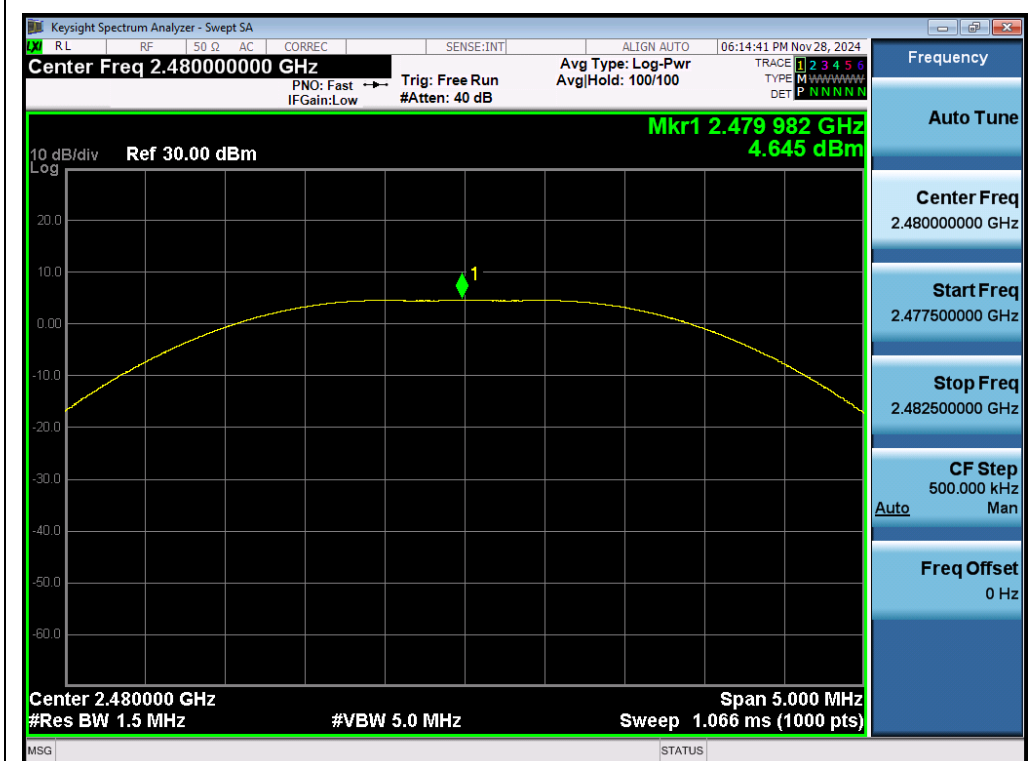
Test_Graph_LE1M_ANT1_2480_1Mbps_Peak Power



Test_Graph_LE2M_ANT1_2402_2Mbps_Peak Power



Test_Graph_LE2M_ANT1_2440_2Mbps_Peak Power



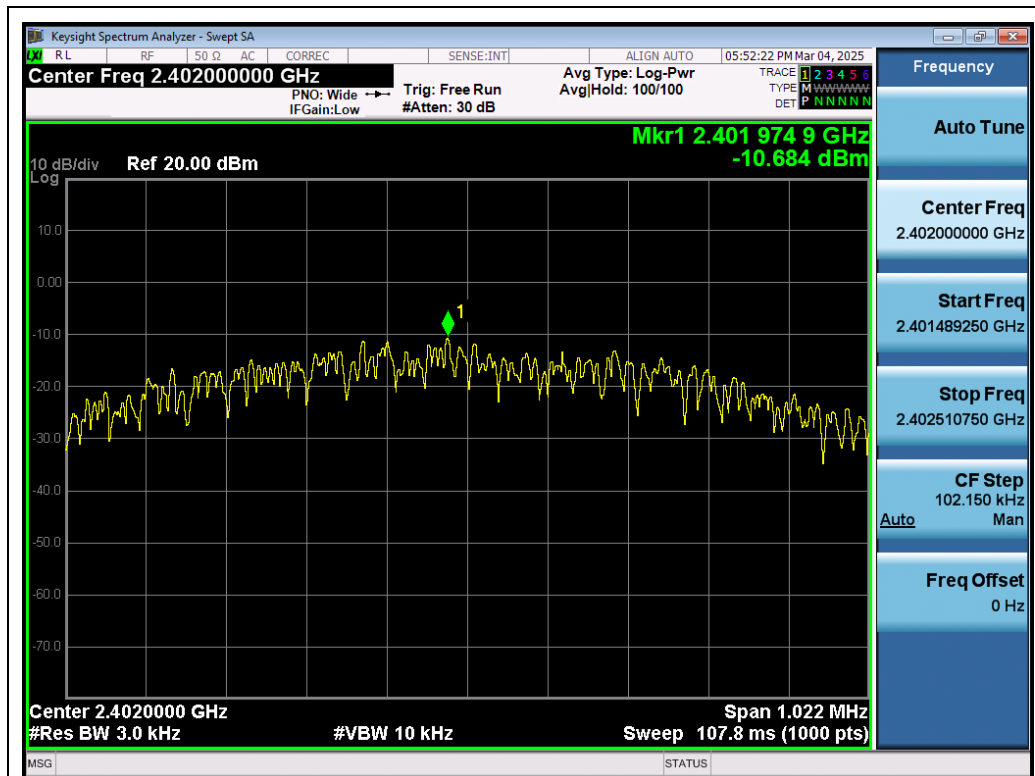
Test_Graph_LE2M_ANT1_2480_2Mbps_Peak Power

Appendix C: Maximum peak power spectral density

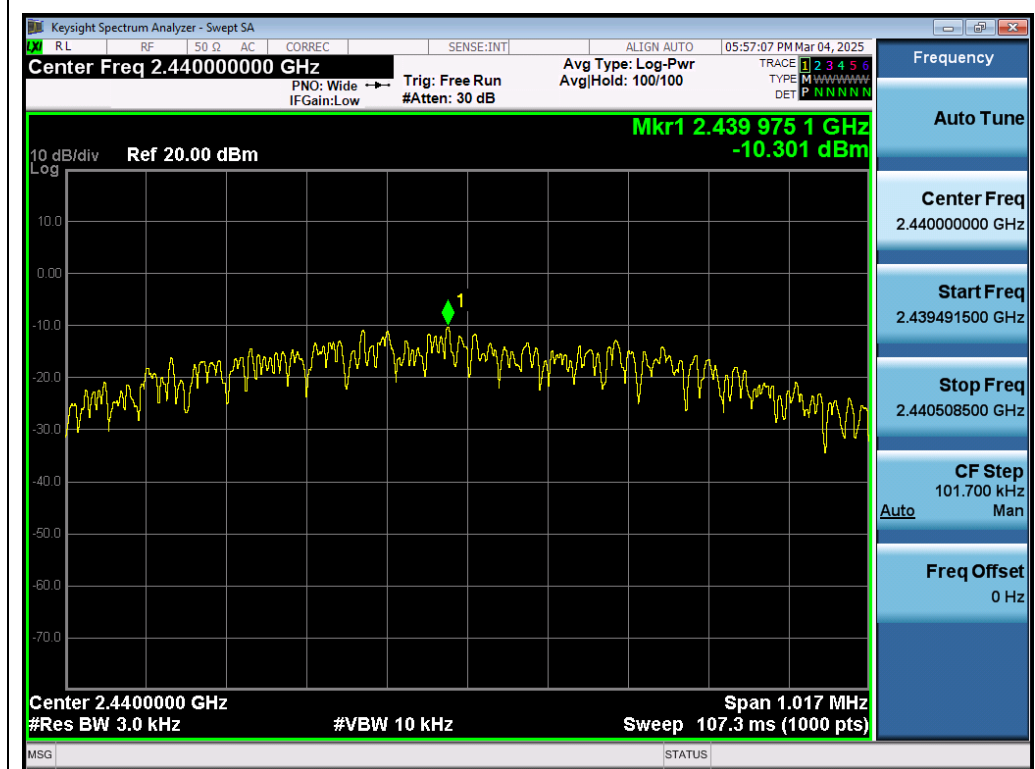
Test Result

Test Mode	Test Frequency (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
GFSK_1Mbps	2402	-10.684	≤ 8	Pass
	2440	-10.301	≤ 8	Pass
	2480	-10.211	≤ 8	Pass
GFSK_2Mbps	2402	-13.982	≤ 8	Pass
	2440	-13.762	≤ 8	Pass
	2480	-13.691	≤ 8	Pass

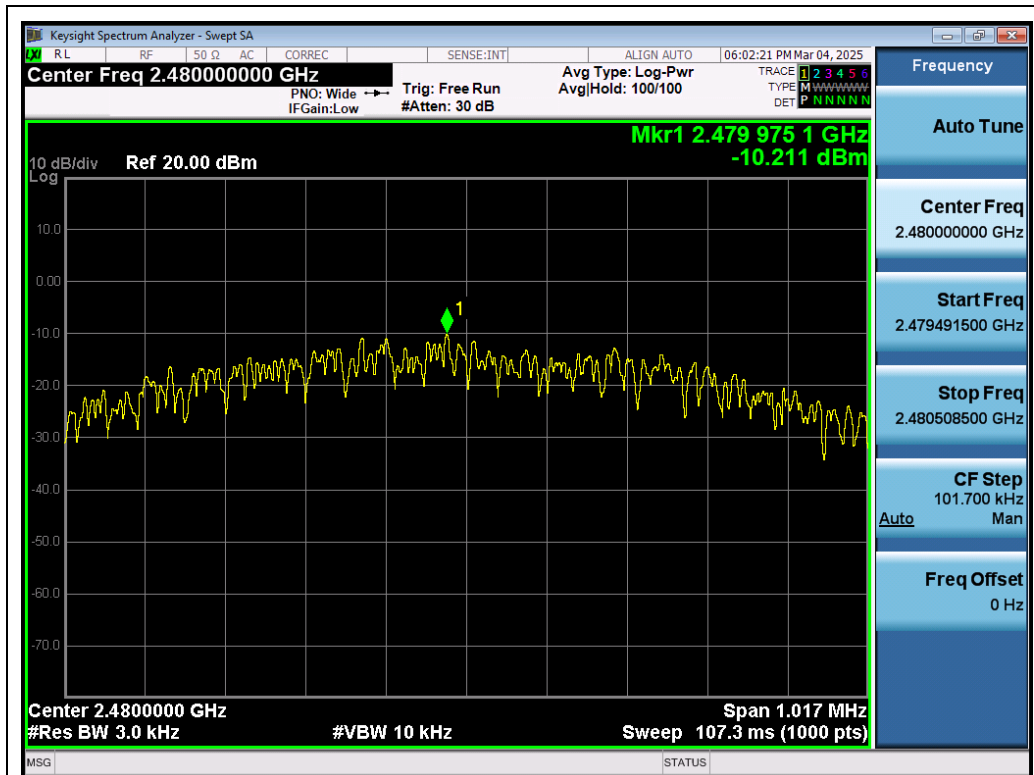
Test Graphs



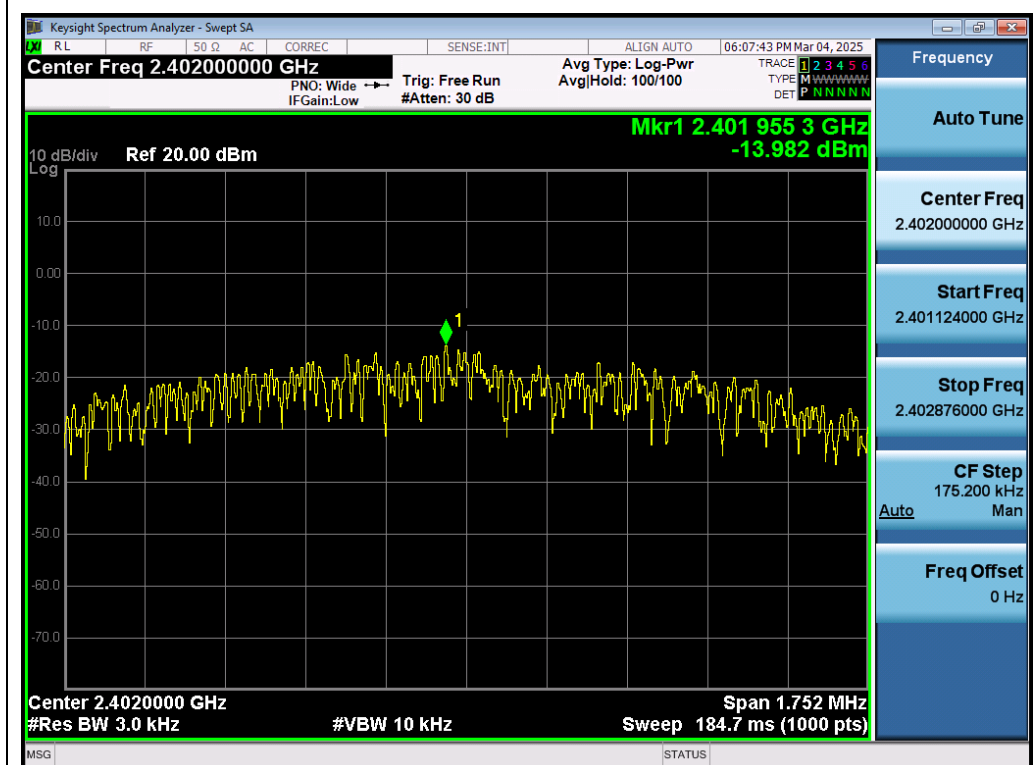
Test_Graph_LE1M_ANT1_2402_1Mbps_PSD



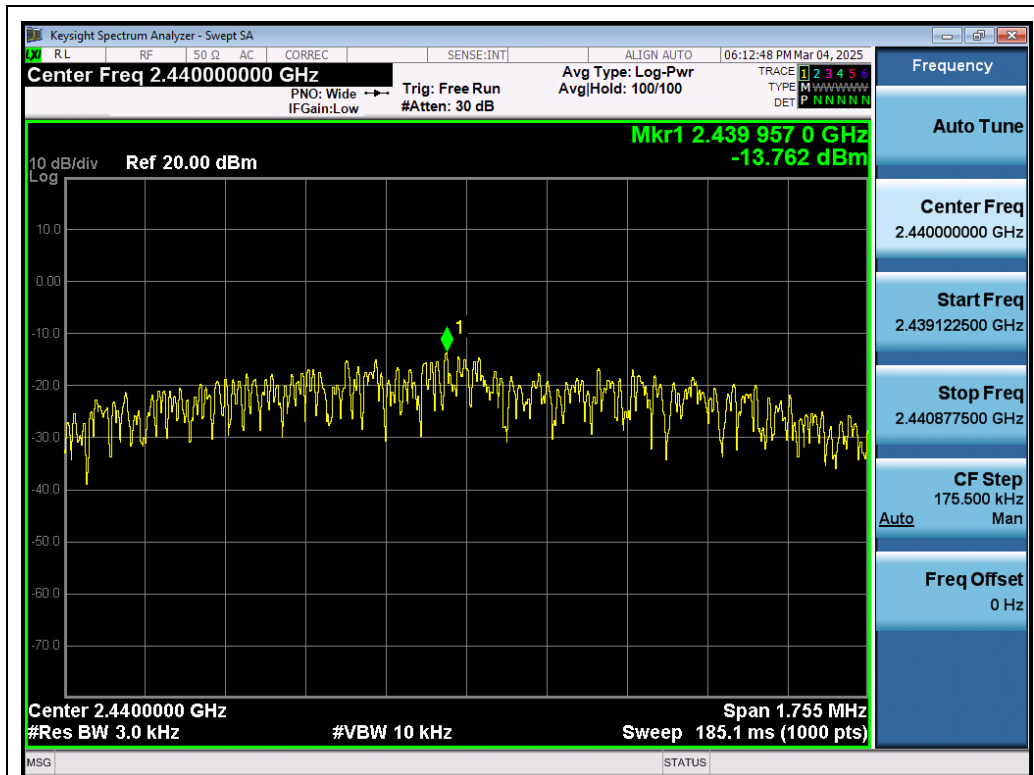
Test_Graph_LE1M_ANT1_2440_1Mbps_PSD



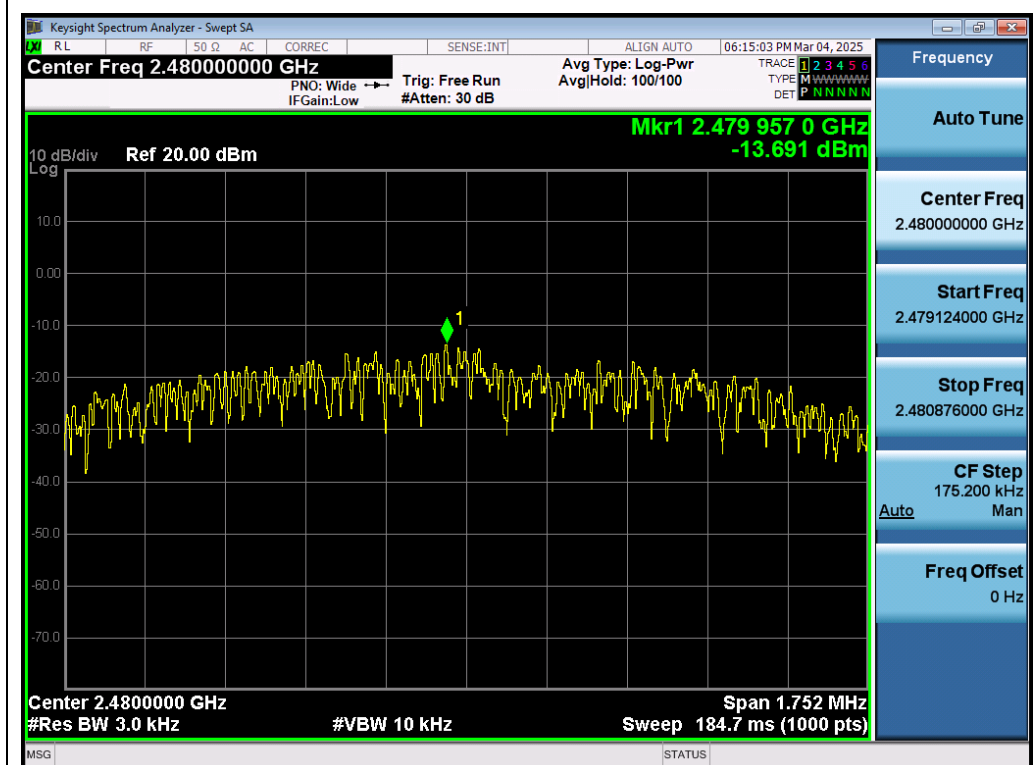
Test_Graph_LE1M_ANT1_2480_1Mbps_PSD



Test_Graph_LE2M_ANT1_2402_2Mbps_PSD



Test_Graph_LE2M_ANT1_2440_2Mbps_PSD



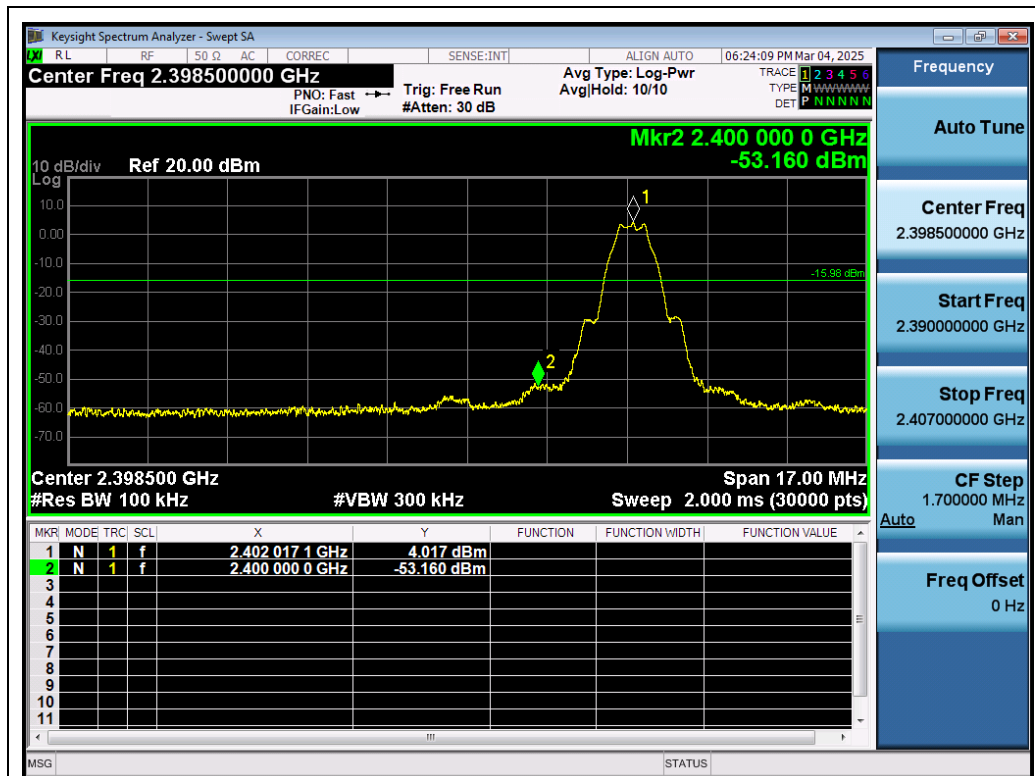
Test_Graph_LE2M_ANT1_2480_2Mbps_PSD

Appendix D: Band edge measurements

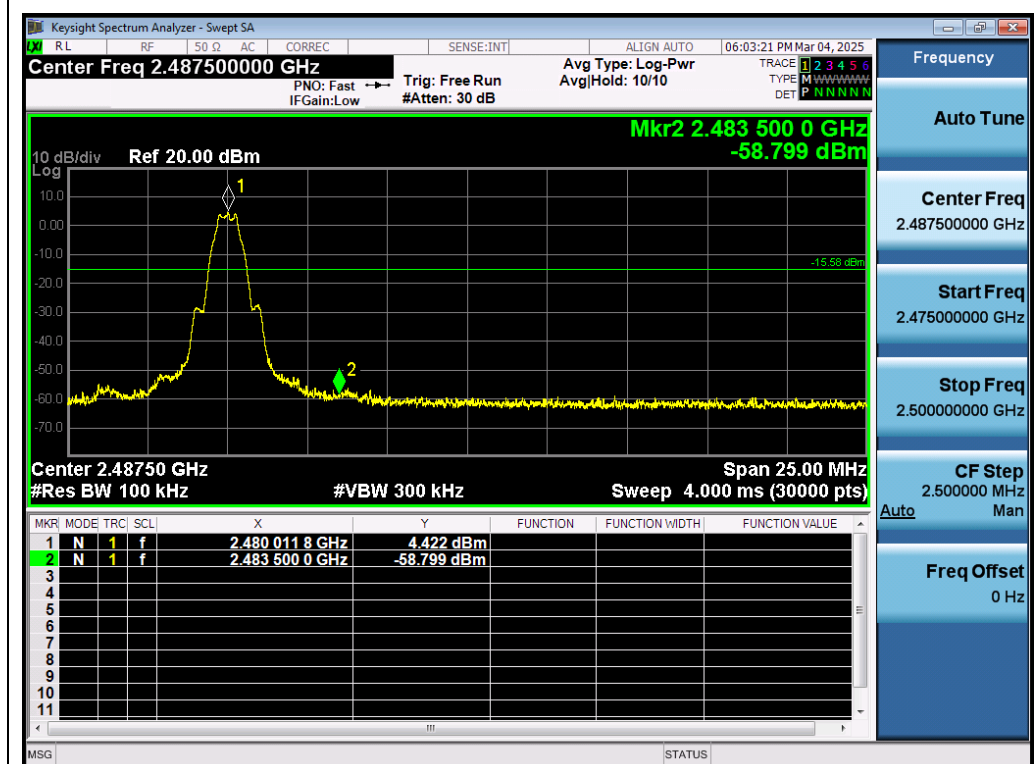
Test Result

Test Mode	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
GFSK_1Mbps	Low	2402	-56.160	-15.98	≤ -15.59	Pass
GFSK_1Mbps	High	2480	-58.799	-15.58	≤ -17.26	Pass
GFSK_2Mbps	Low	2402	-40.979	-16.05	≤ -15.71	Pass
GFSK_2Mbps	High	2480	-59.549	-15.82	≤ -17.33	Pass

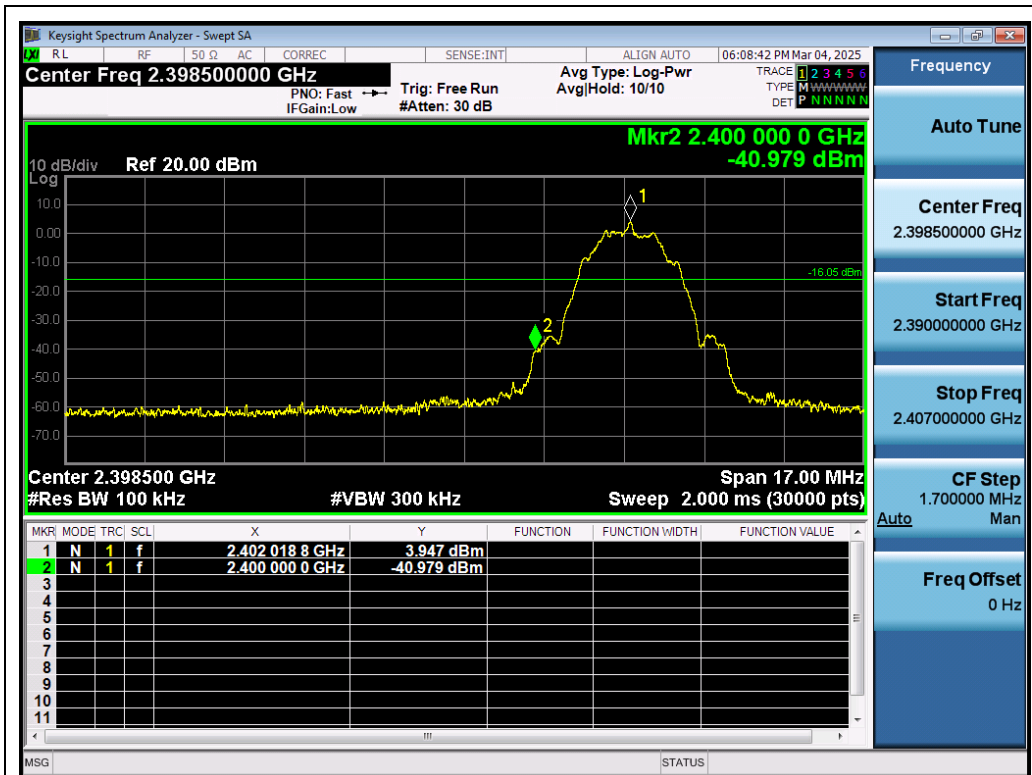
Test Graphs



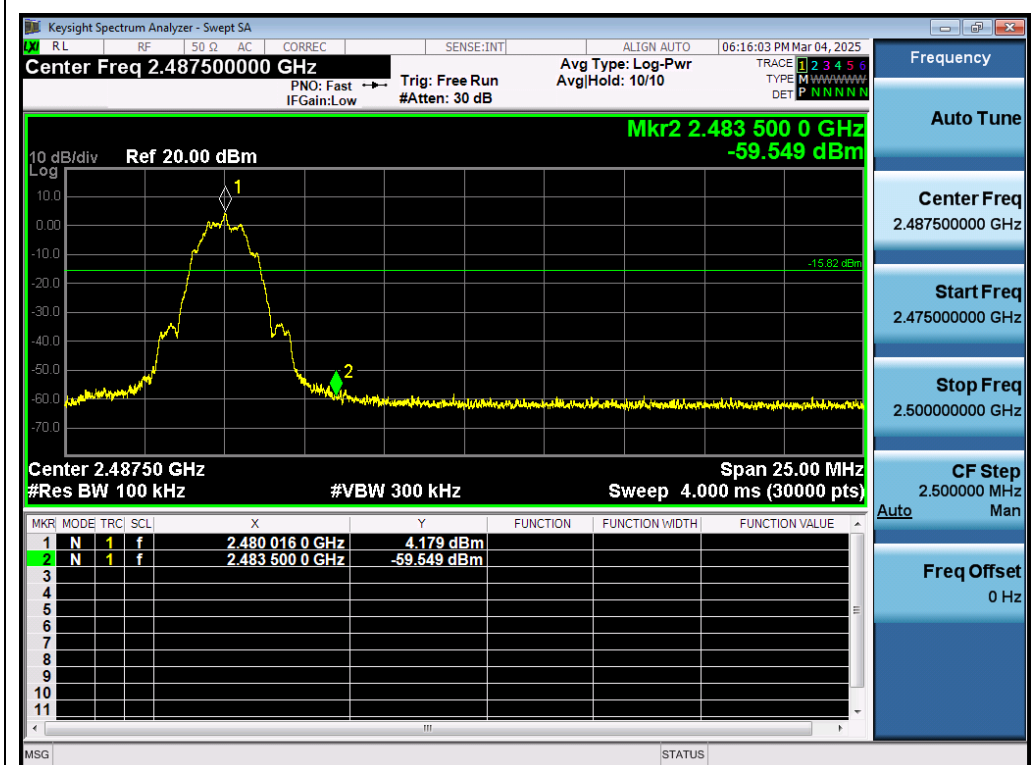
Test_Graph_LE1M_ANT1_2402_1Mbps_Lower Band Edge Emissions



Test_Graph_LE1M_ANT1_2480_1Mbps_Higher Band Edge Emissions



Test_Graph_LE2M_ANT1_2402_2Mbps_Lower Band Edge Emissions



Test_Graph_LE2M_ANT1_2480_2Mbps_Higher Band Edge Emissions

Appendix E: Conducted Spurious Emission

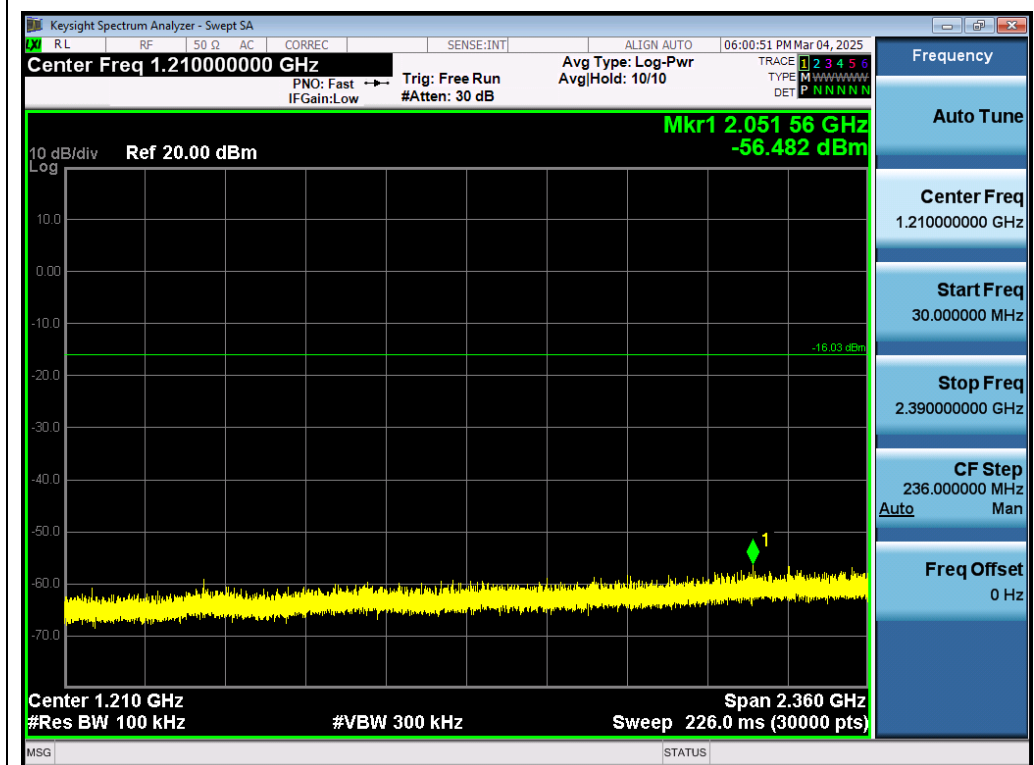
Test Result

Test Mode	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
GFSK_1Mbps	2402	0~Reference	3.968	3.968	---	Pass
GFSK_1Mbps	2402	30~2390	3.968	-56.482	≤-16.03	Pass
GFSK_1Mbps	2402	2483.5~25000	3.968	-47.189	≤-16.03	Pass
GFSK_1Mbps	2440	0~Reference	4.246	4.246	---	Pass
GFSK_1Mbps	2440	30~2400	4.246	-56.962	≤-15.75	Pass
GFSK_1Mbps	2440	2483.5~25000	4.246	-47.490	≤-15.75	Pass
GFSK_1Mbps	2480	0~Reference	4.305	4.305	---	Pass
GFSK_1Mbps	2480	30~2400	4.305	-55.227	≤-15.70	Pass
GFSK_1Mbps	2480	2500~26500	4.305	-46.080	≤-15.70	Pass
GFSK_2Mbps	2402	0~Reference	3.863	3.863	---	Pass
GFSK_2Mbps	2402	30~2390	3.863	-55.908	≤-16.14	Pass
GFSK_2Mbps	2402	2483.5~25000	3.863	-48.178	≤-16.14	Pass
GFSK_2Mbps	2440	0~Reference	4.126	4.126	---	Pass
GFSK_2Mbps	2440	30~2400	4.126	-56.258	≤-15.87	Pass
GFSK_2Mbps	2440	2483.5~25000	4.126	-47.778	≤-15.87	Pass
GFSK_2Mbps	2480	0~Reference	4.165	4.165	---	Pass
GFSK_2Mbps	2480	30~2400	4.165	-57.108	≤-15.84	Pass
GFSK_2Mbps	2480	2500~26500	4.165	-47.210	≤-15.84	Pass

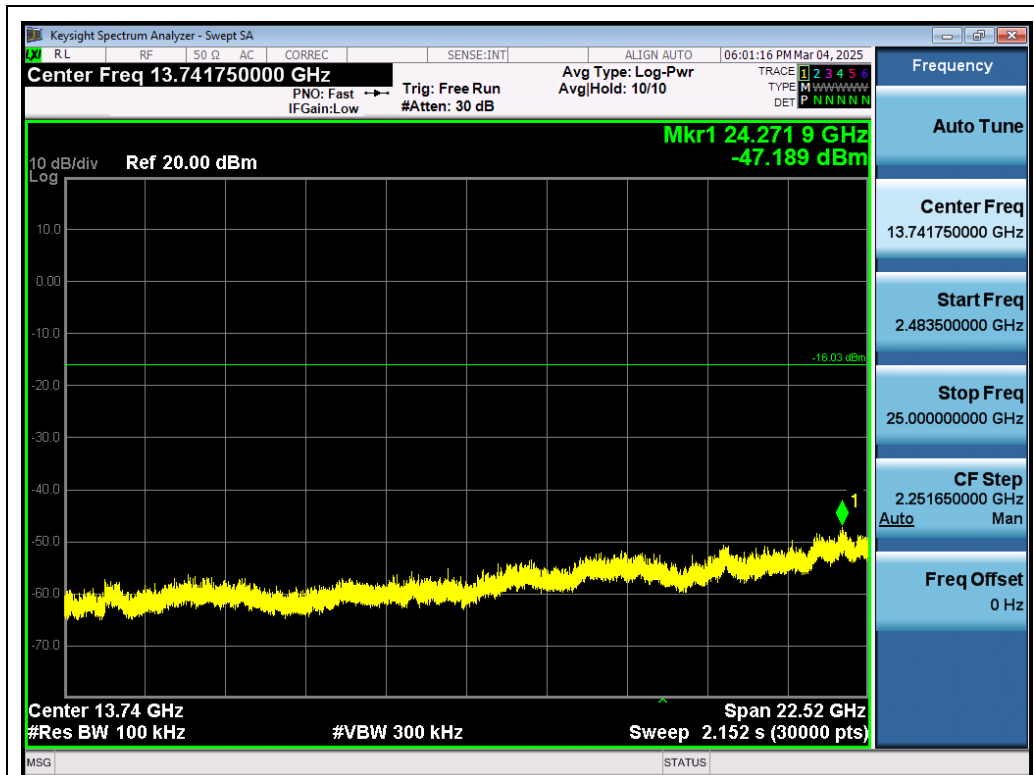
Test Graphs



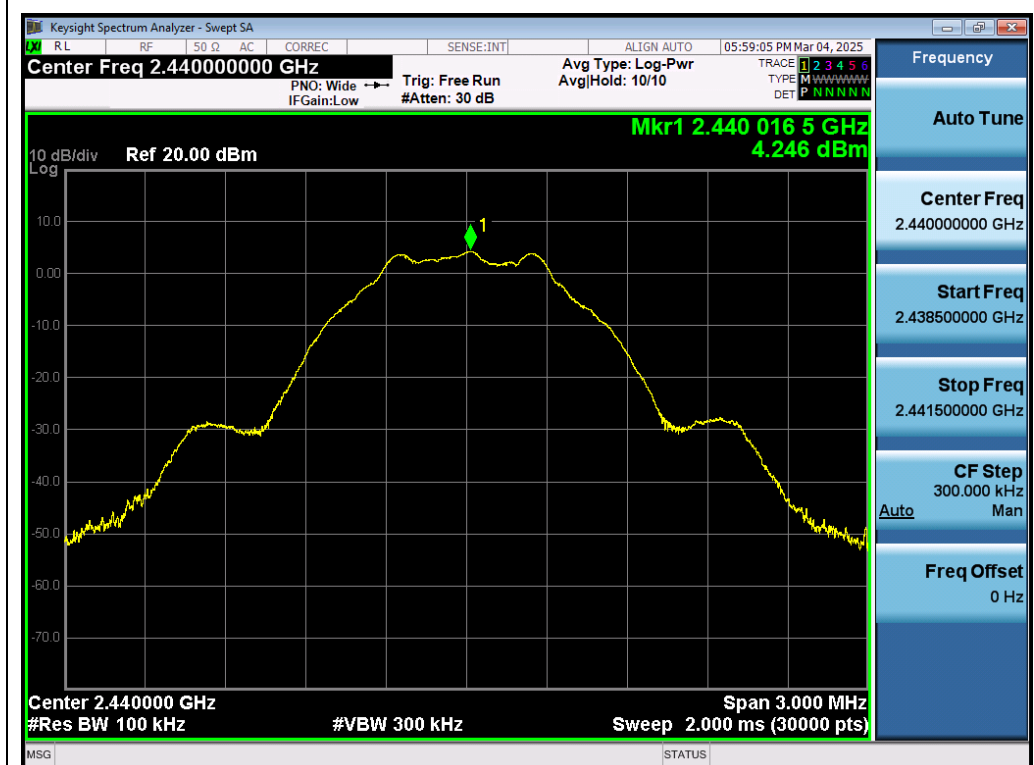
Test_Graph_LE1M_ANT1_2402_1Mbps_Reference Level



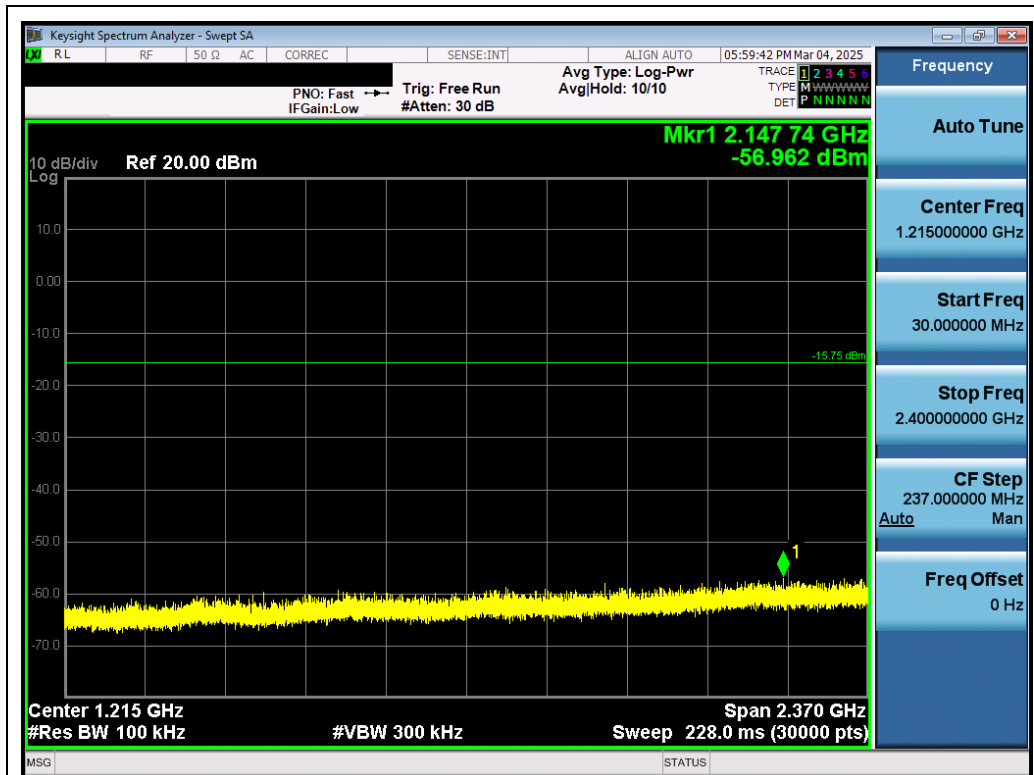
Test_Graph_LE1M_ANT1_2402_1Mbps_Lower Band Emissions



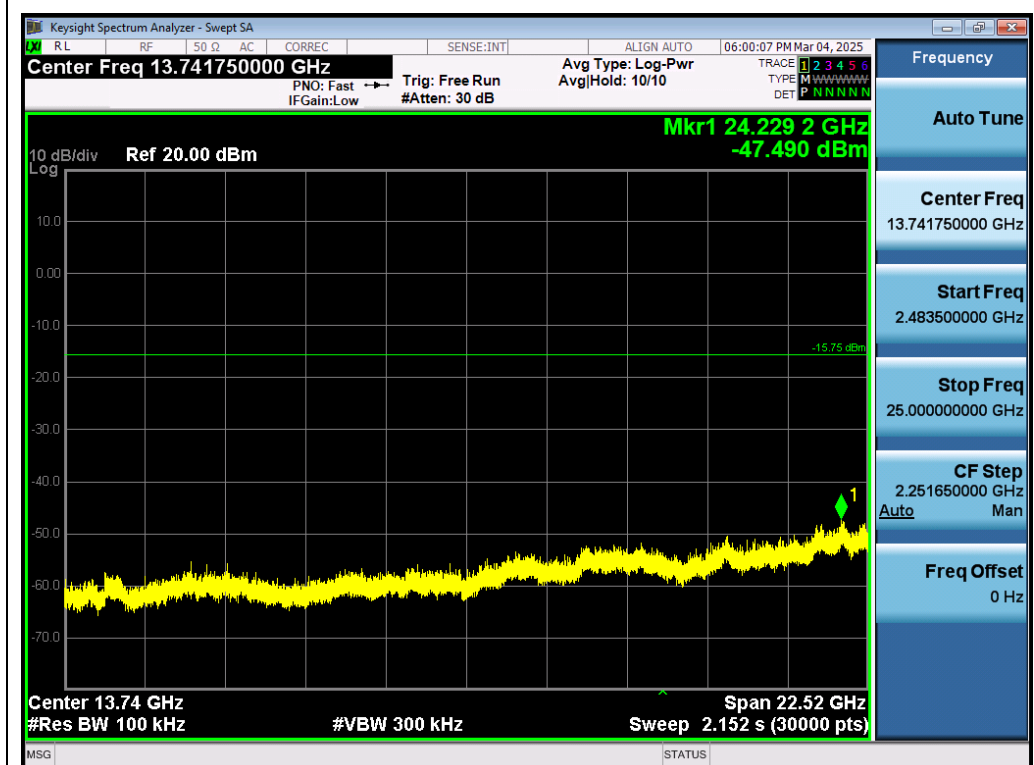
Test_Graph_LE1M_ANT1_2402_1Mbps_Higher Band Emissions



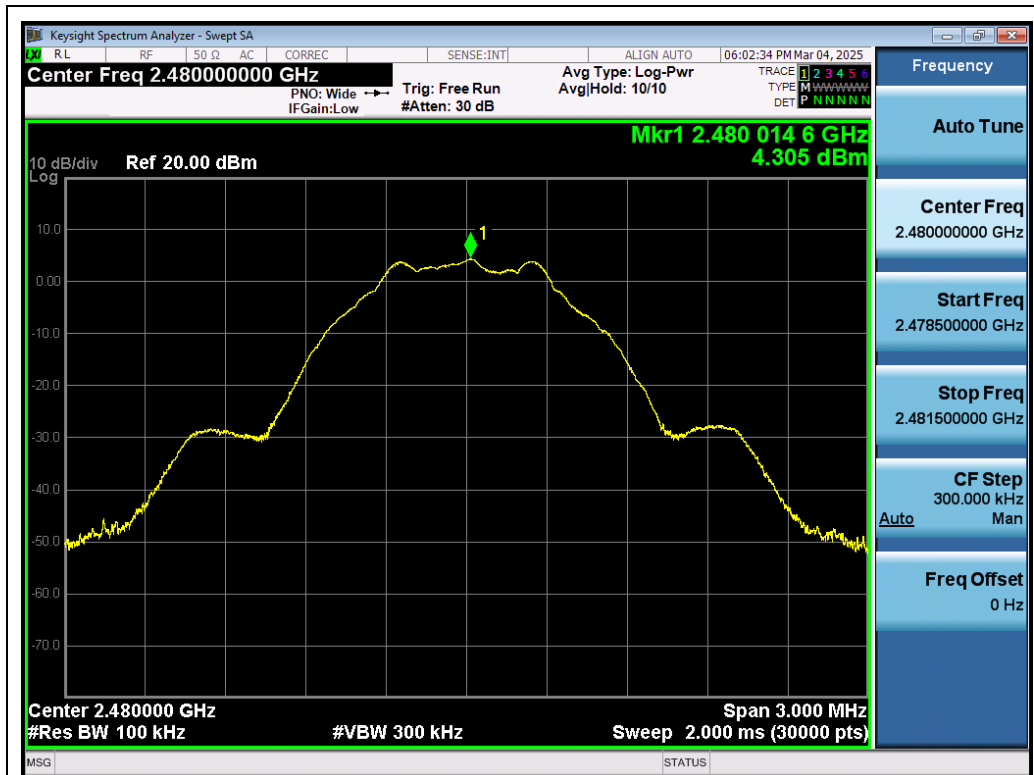
Test_Graph_LE1M_ANT1_2440_1Mbps_Reference Level



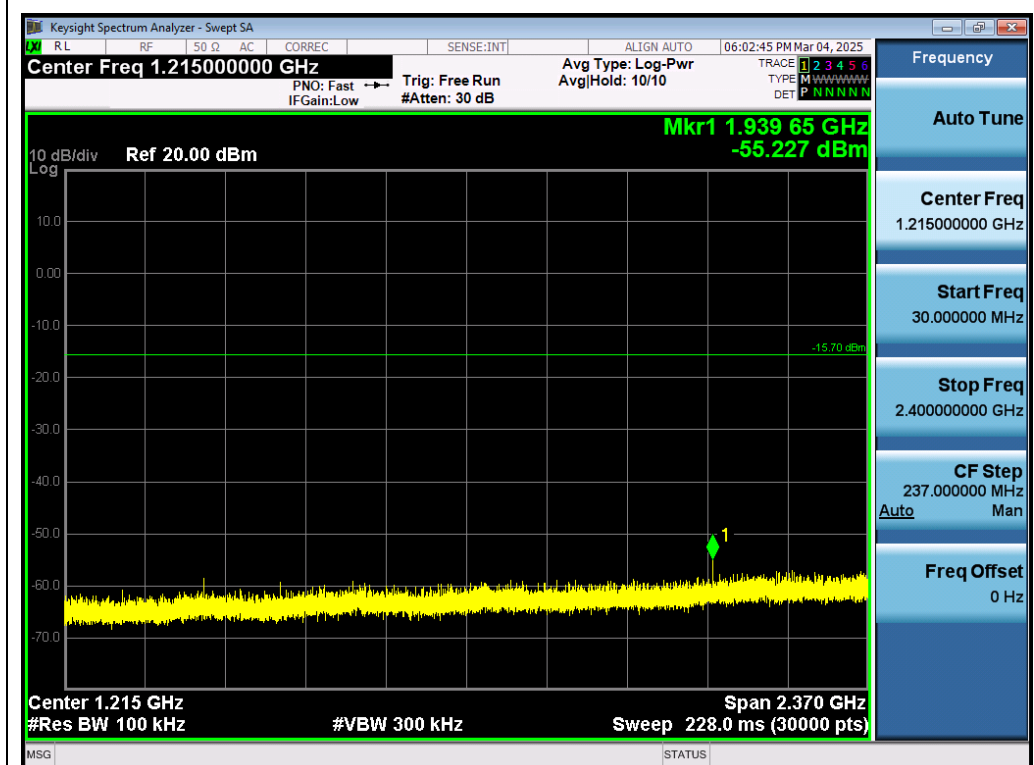
Test_Graph_LE1M_ANT1_2440_1Mbps_Lower Band Emissions



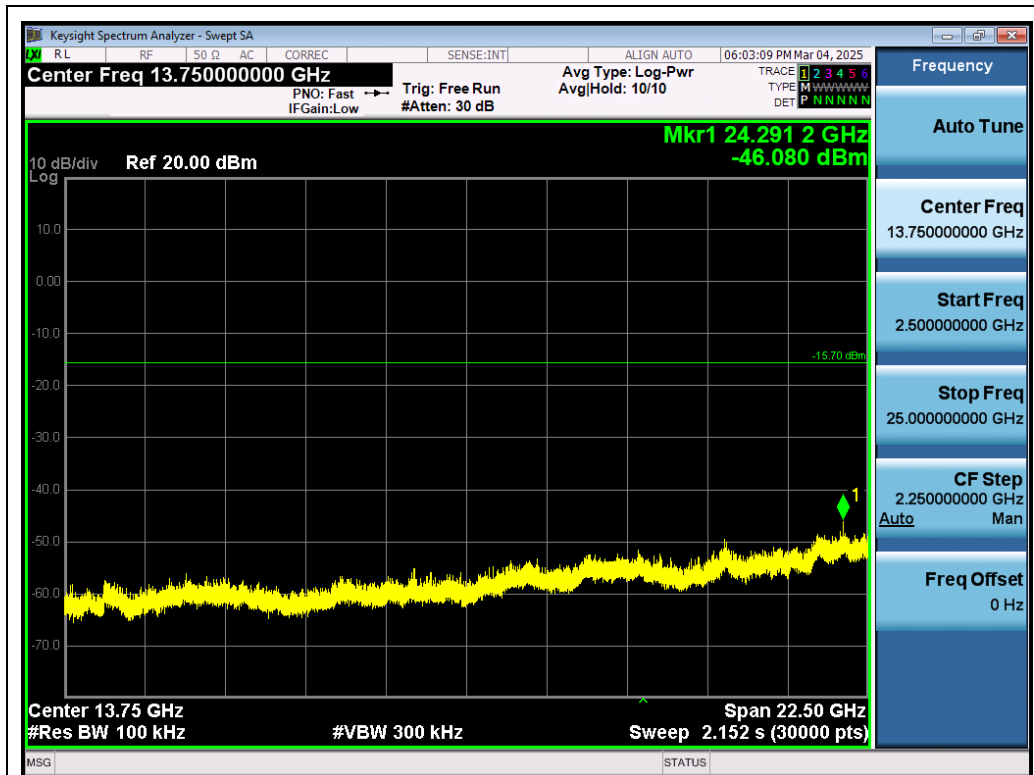
Test_Graph_LE1M_ANT1_2440_1Mbps_Higher Band Emissions



Test_Graph_LE1M_ANT1_2480_1Mbps_Reference Level



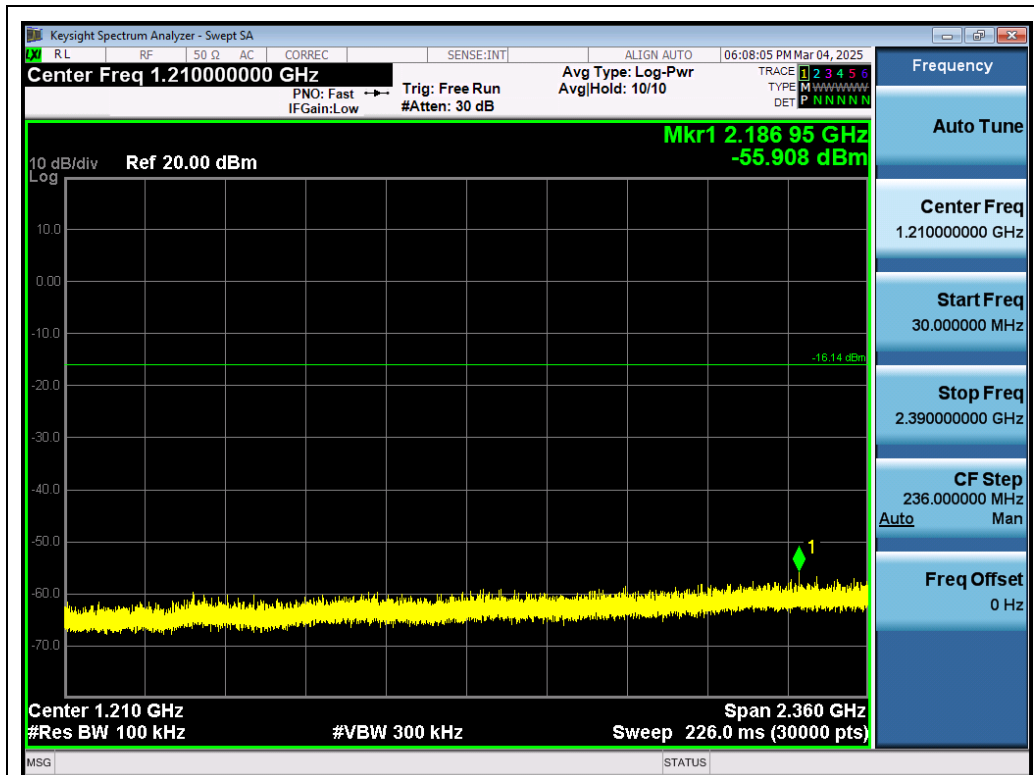
Test_Graph_LE1M_ANT1_2480_1Mbps_Lower Band Emissions



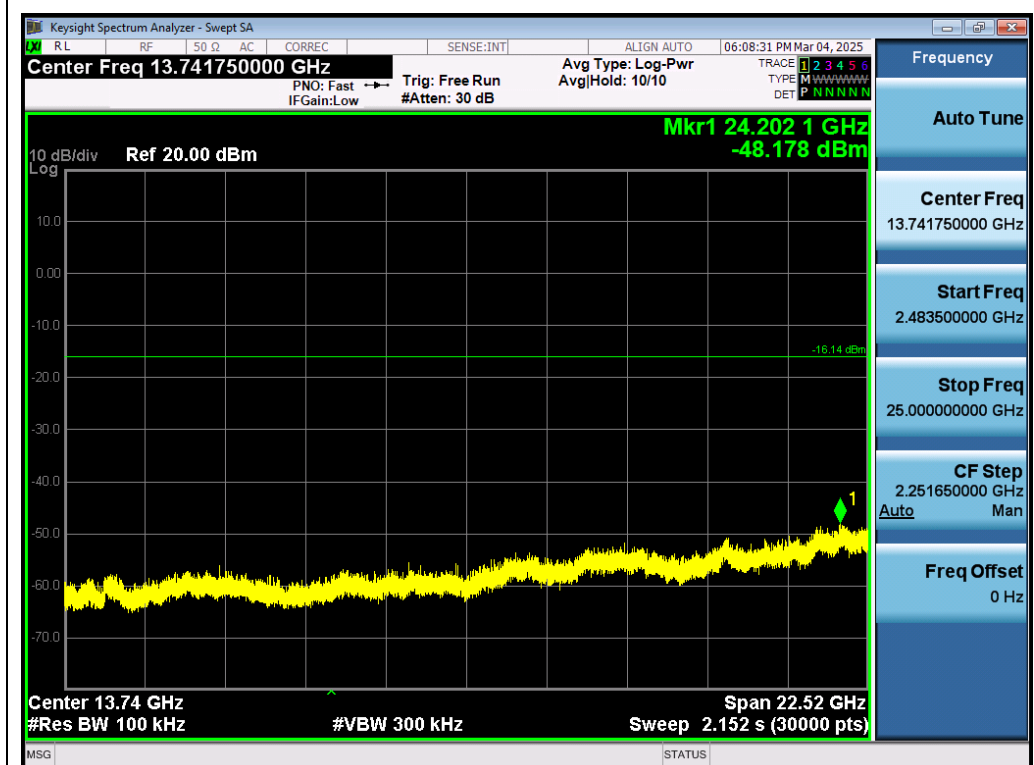
Test_Graph_LE1M_ANT1_2480_1Mbps_Higher Band Emissions



Test_Graph_LE2M_ANT1_2402_2Mbps_Reference Level



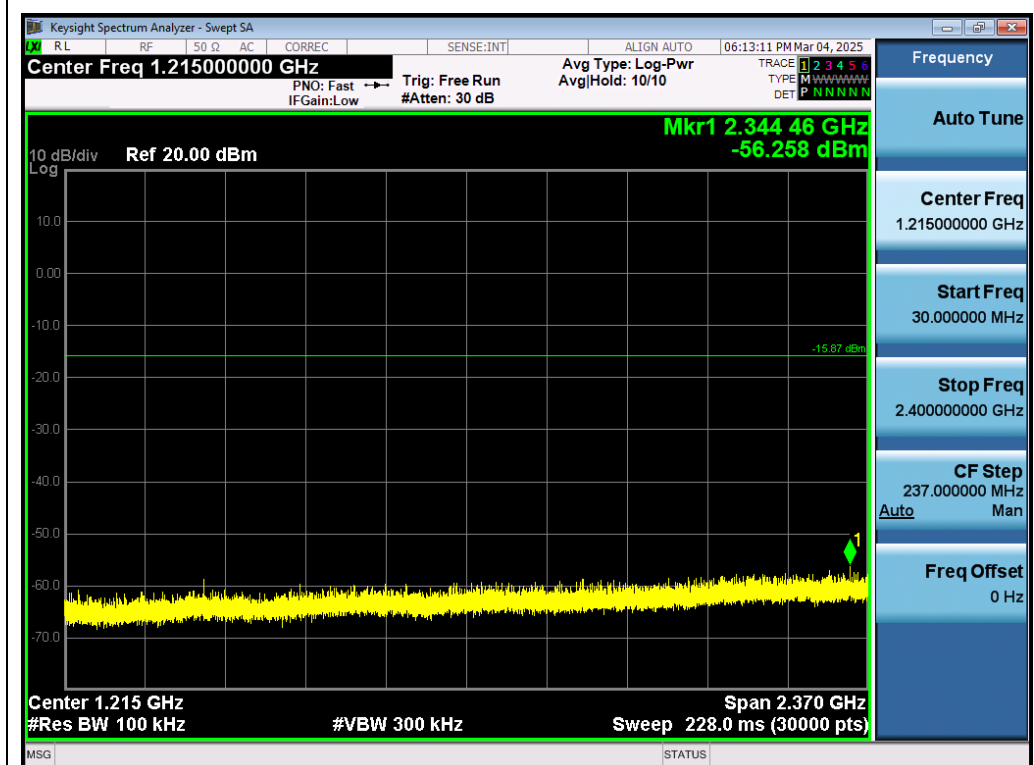
Test_Graph_LE2M_ANT1_2402_2Mbps_Lower Band Emissions



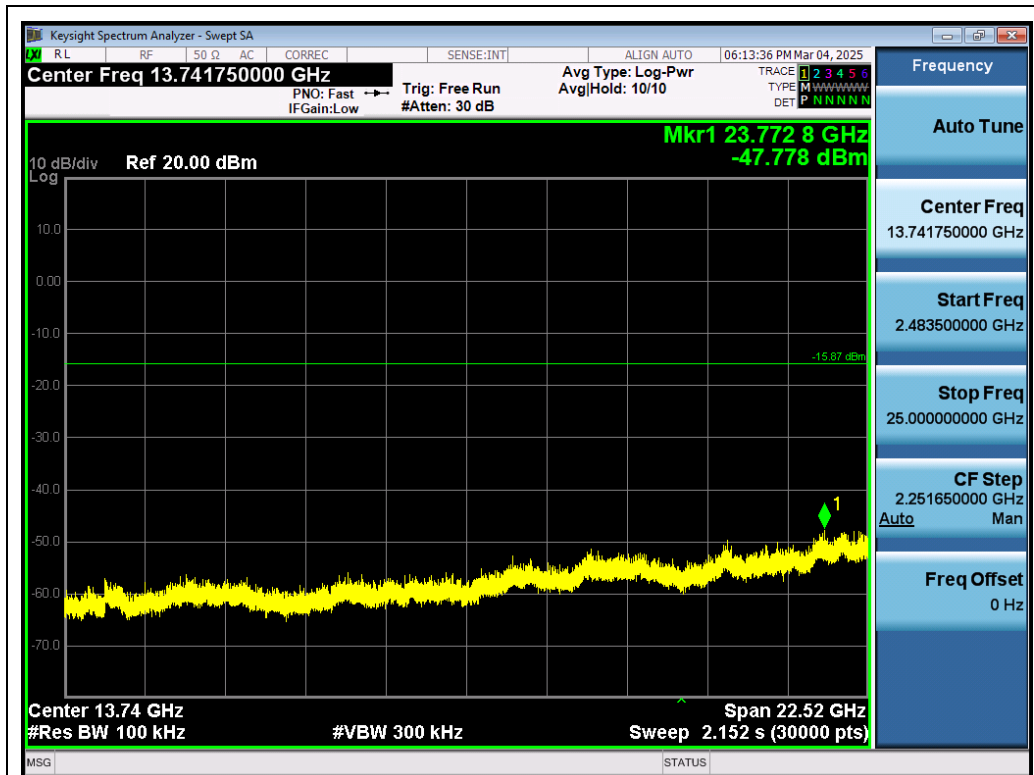
Test_Graph_LE2M_ANT1_2402_2Mbps_Higher Band Emissions



Test_Graph_LE2M_ANT1_2440_2Mbps_Reference Level



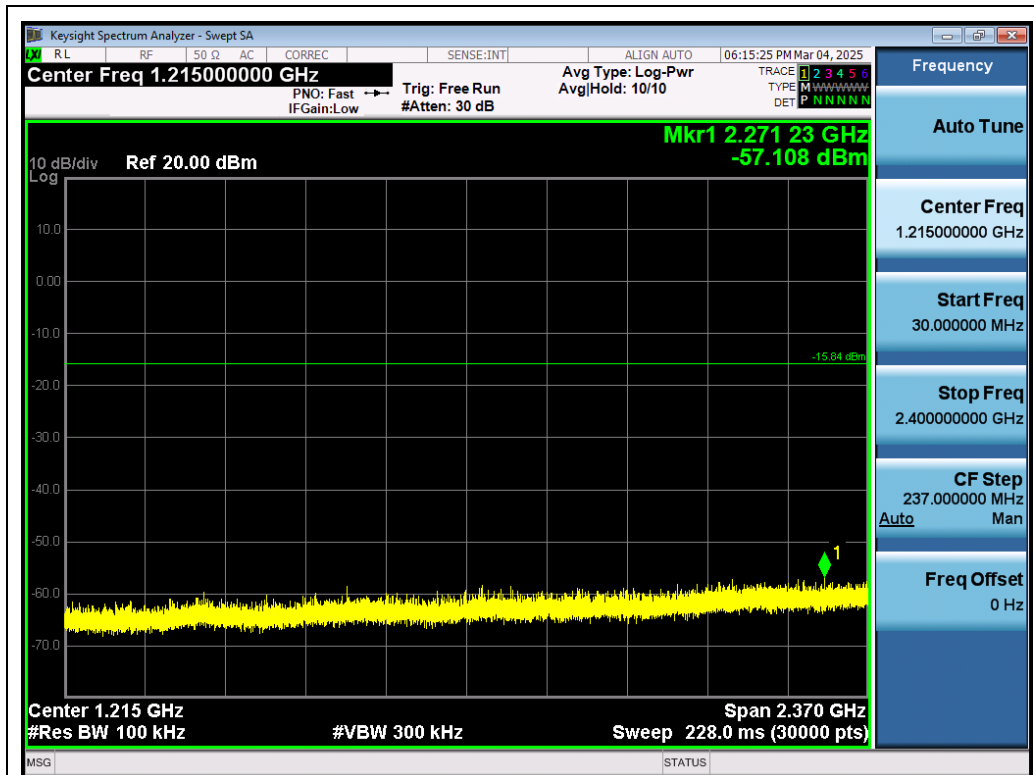
Test_Graph_LE2M_ANT1_2440_2Mbps_Lower Band Emissions



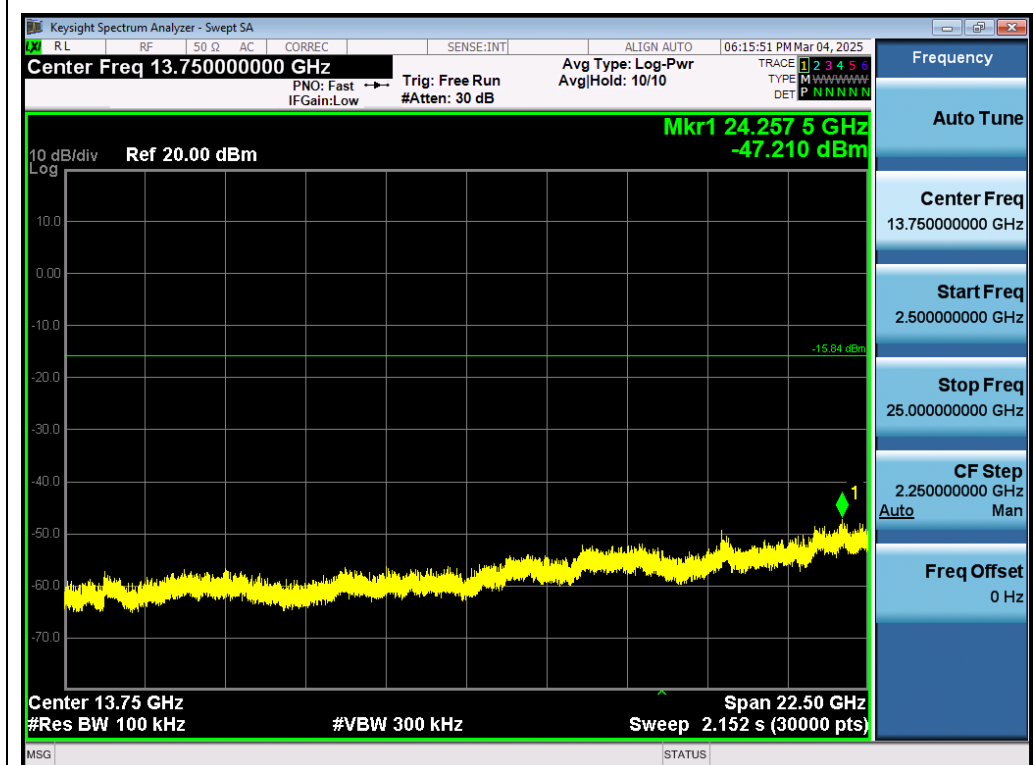
Test_Graph_LE2M_ANT1_2440_2Mbps_Higher Band Emissions



Test_Graph_LE2M_ANT1_2480_2Mbps_Reference Level



Test_Graph_LE2M_ANT1_2480_2Mbps_Lower Band Emissions



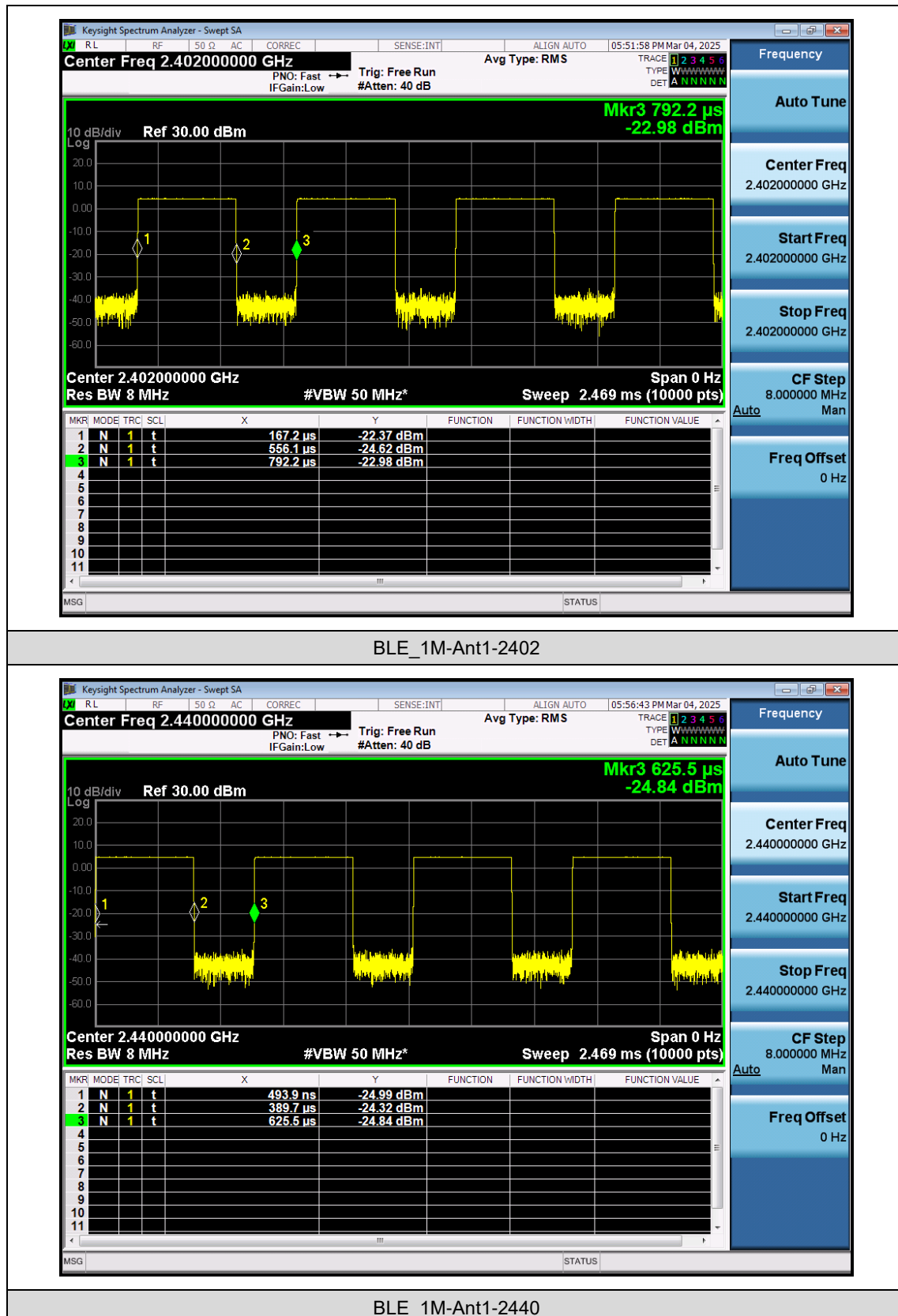
Test_Graph_LE2M_ANT1_2480_2Mbps_Higher Band Emissions

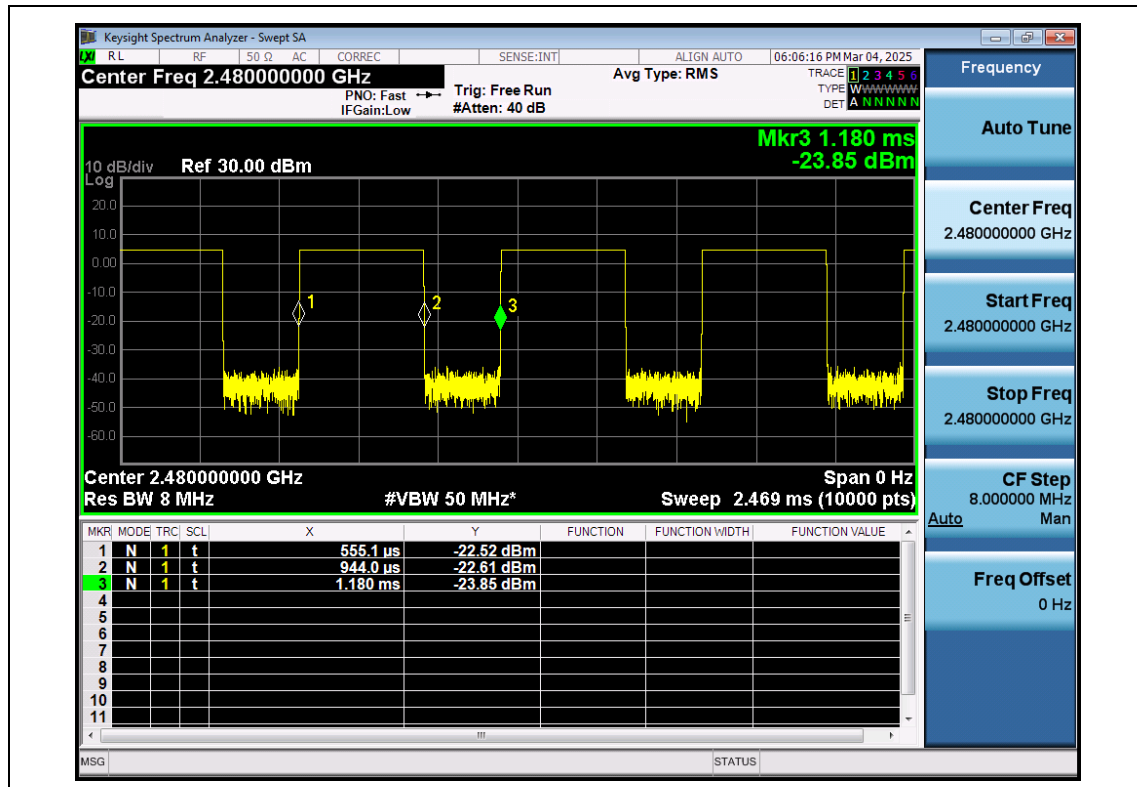
Appendix F: Duty Cycle

Test Result

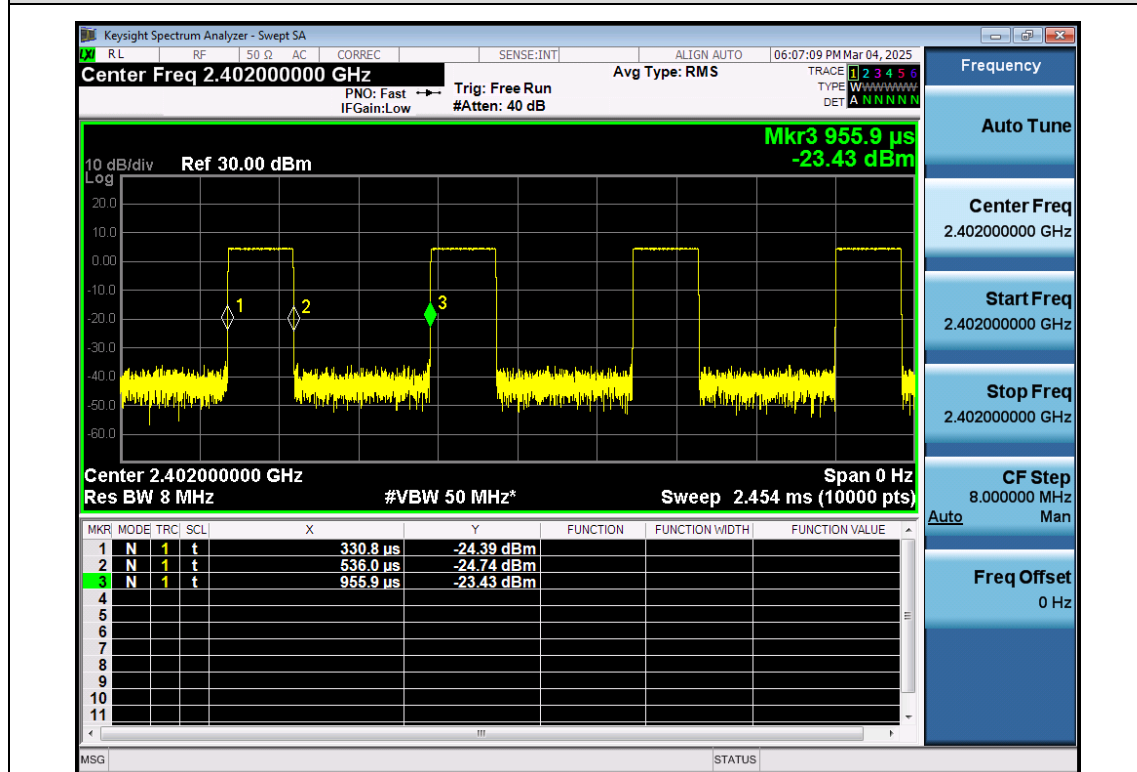
Test Mode	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
GFSK_1Mbps	2402	0.39	0.63	52.22	2.08
GFSK_1Mbps	2440	0.39	0.63	62.27	2.08
GFSK_1Mbps	2480	0.39	0.62	62.23	2.08
GFSK_2Mbps	2402	0.21	0.63	32.83	4.81
GFSK_2Mbps	2440	0.20	0.63	32.77	4.81
GFSK_2Mbps	2480	0.21	0.63	32.81	4.81

Test Graphs

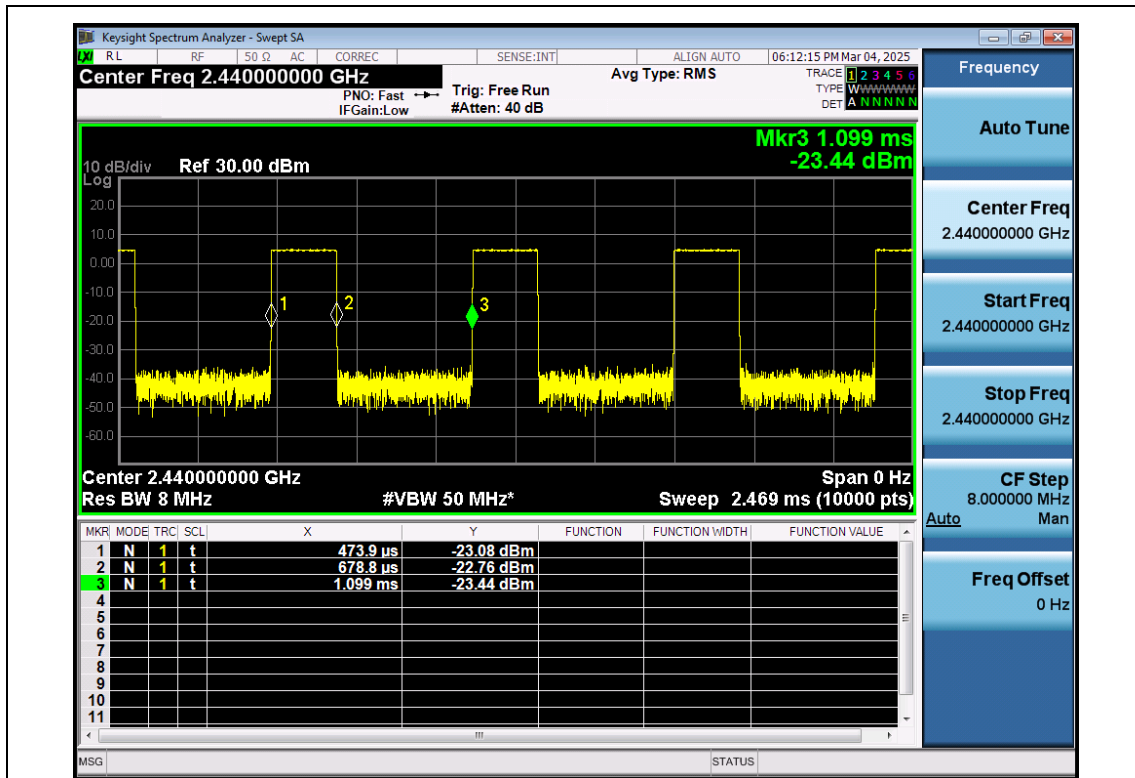




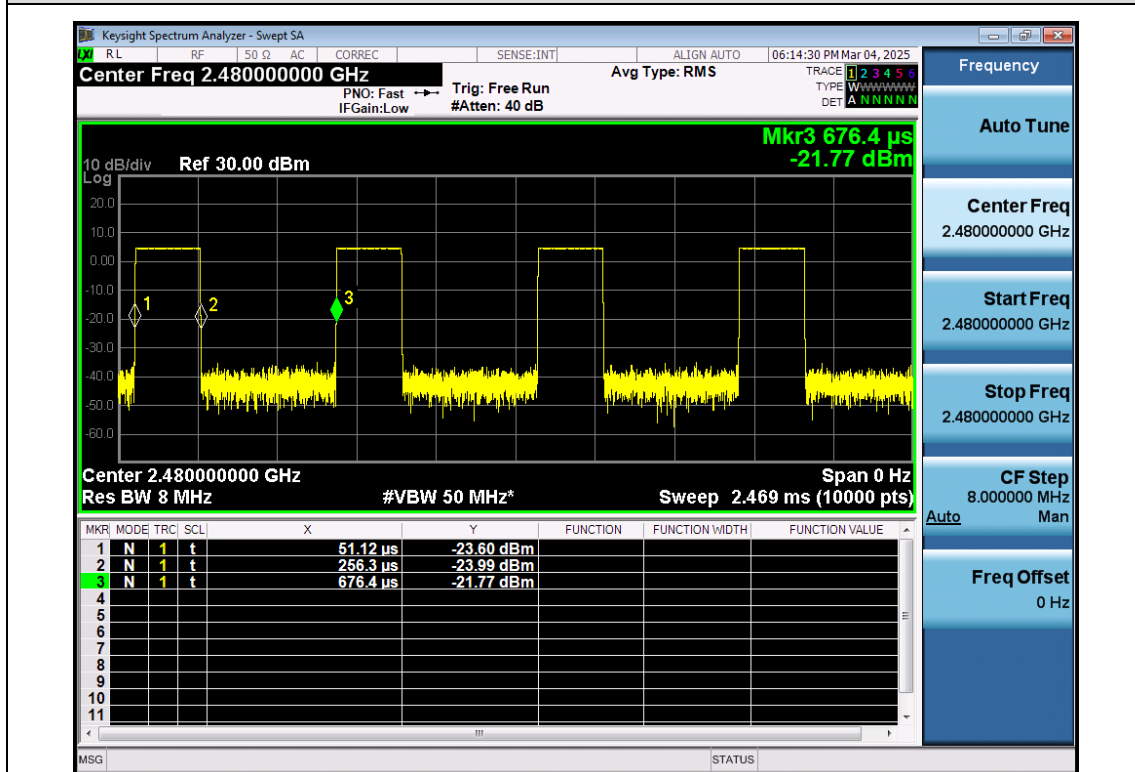
BLE_1M-Ant1-2480



BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480