

Appendix Test Data for BLE (Conducted Measurement)

Product Name: WIRELESS GAMING MOUSE DONGLE

Trade Mark: MAD CATZ

Test Model: M.M.O. 7+ Dongle

FCC ID: 2ASFYMM10NHINBL001

Environmental Conditions

Temperature:	25.4℃
Relative Humidity:	56%
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 Channel (MHz)	99% Occupied Bandwidth	-6dB Bandwidth	Limits (MHz)	Pass or Fail
GFSK	2405	2.018	0.728	≥ 0.5	Pass
	2445	2.013	0.621	≥ 0.5	Pass
	2475	2.018	0.684	≥ 0.5	Pass

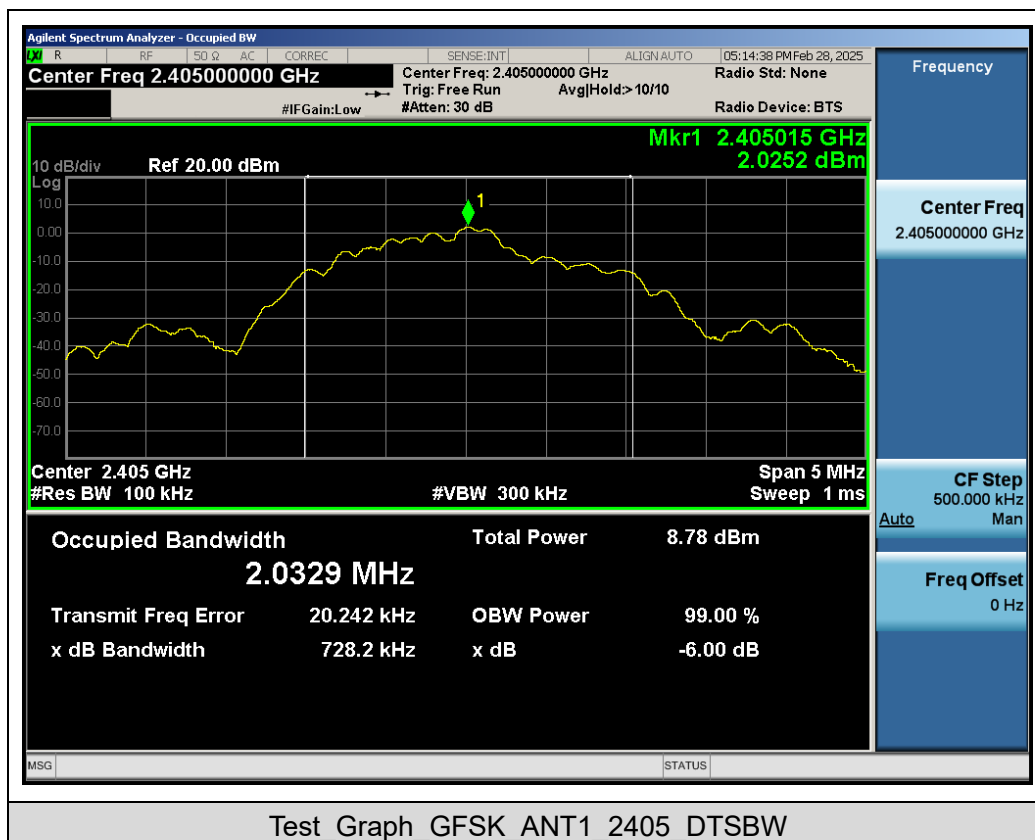
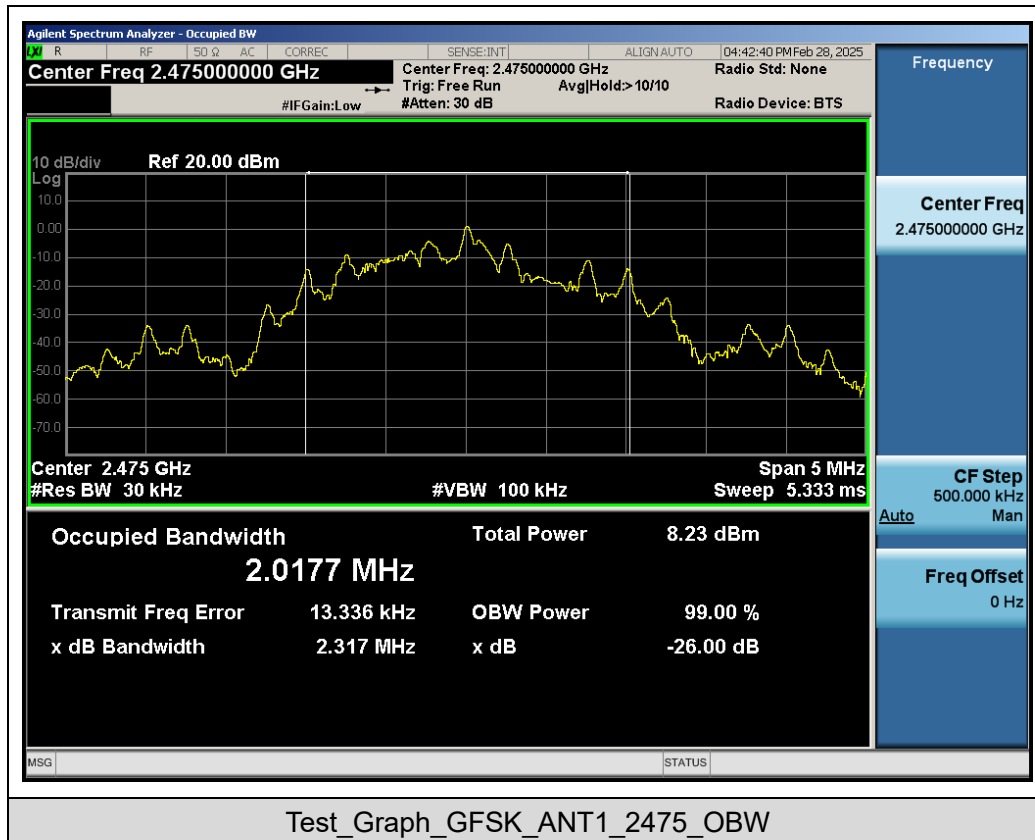
Test Graphs



Test_Graph_GFSK_ANT1_2405_OBW

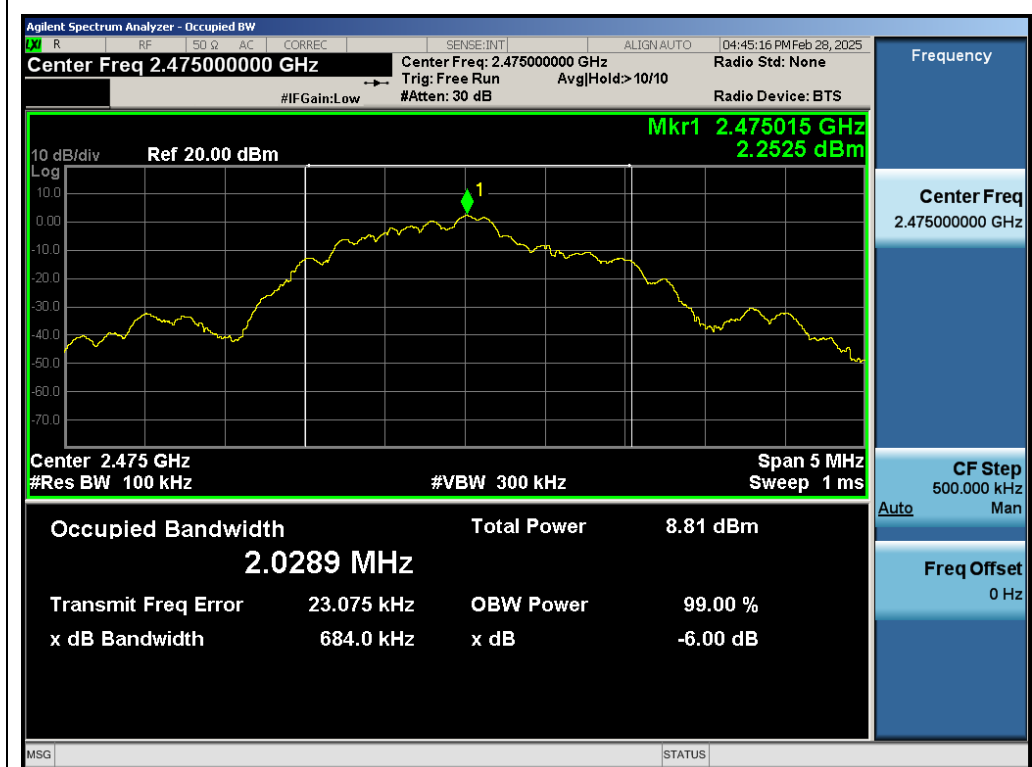


Test_Graph_GFSK_ANT1_2445_OBW





Test_Graph_GFSK_ANT1_2445_DTSBW



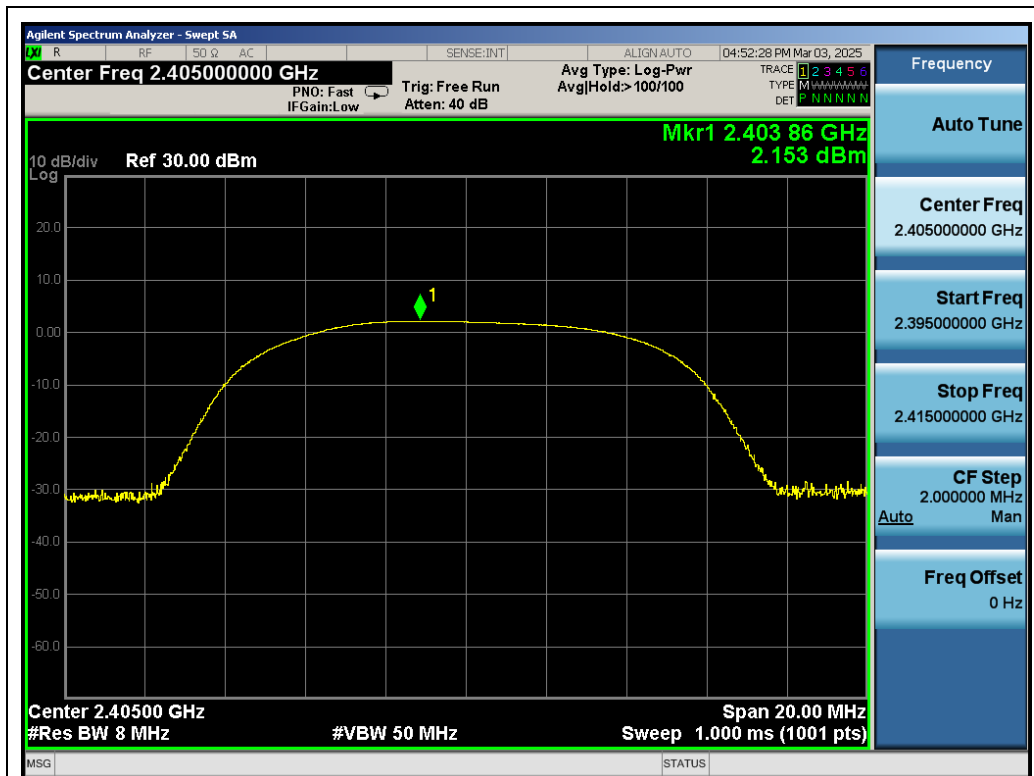
Test_Graph_GFSK_ANT1_2475_DTSBW

Appendix B: Maximum peak conducted output power

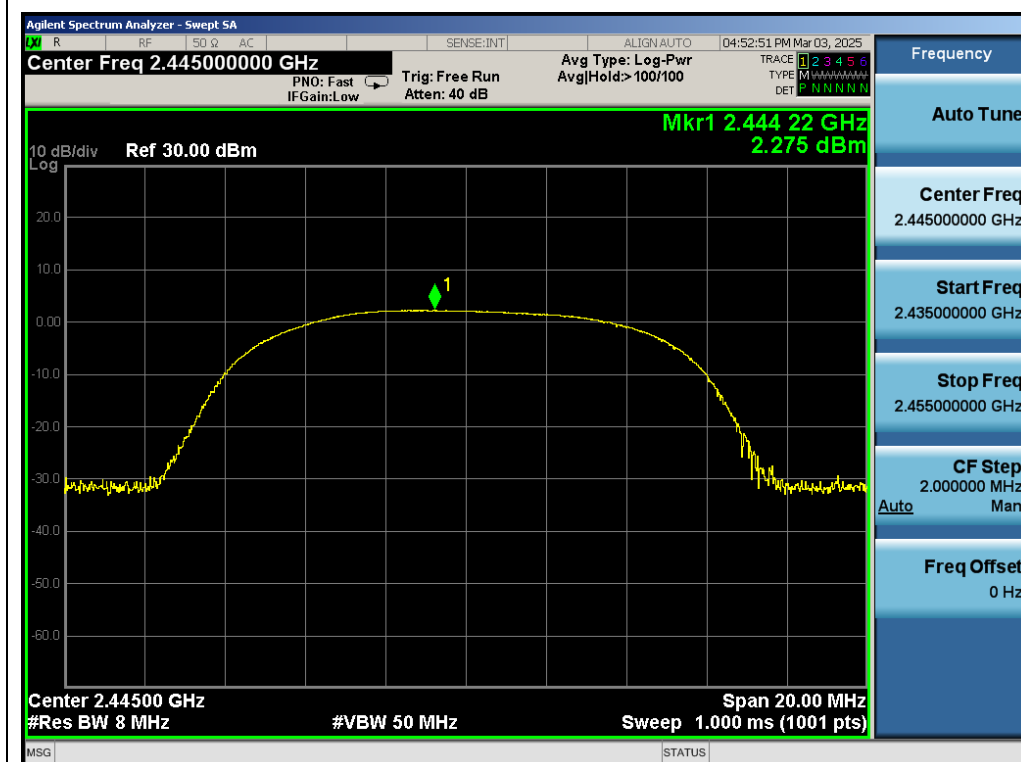
Test Result Peak

Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
GFSK	2405	2.153	≤ 30	Pass
	2445	2.275	≤ 30	Pass
	2475	2.381	≤ 30	Pass

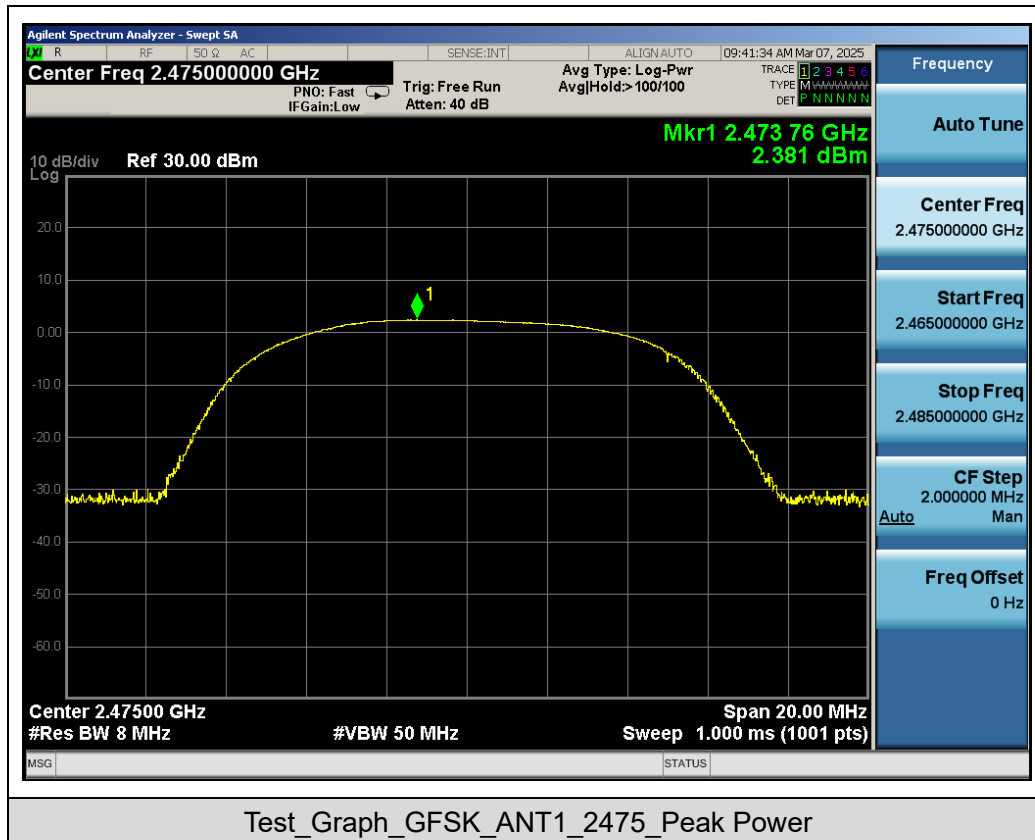
Test Graphs Peak



Test_Graph_GFSK_ANT1_2405_Peak Power



Test_Graph_GFSK_ANT1_2445_Peak Power

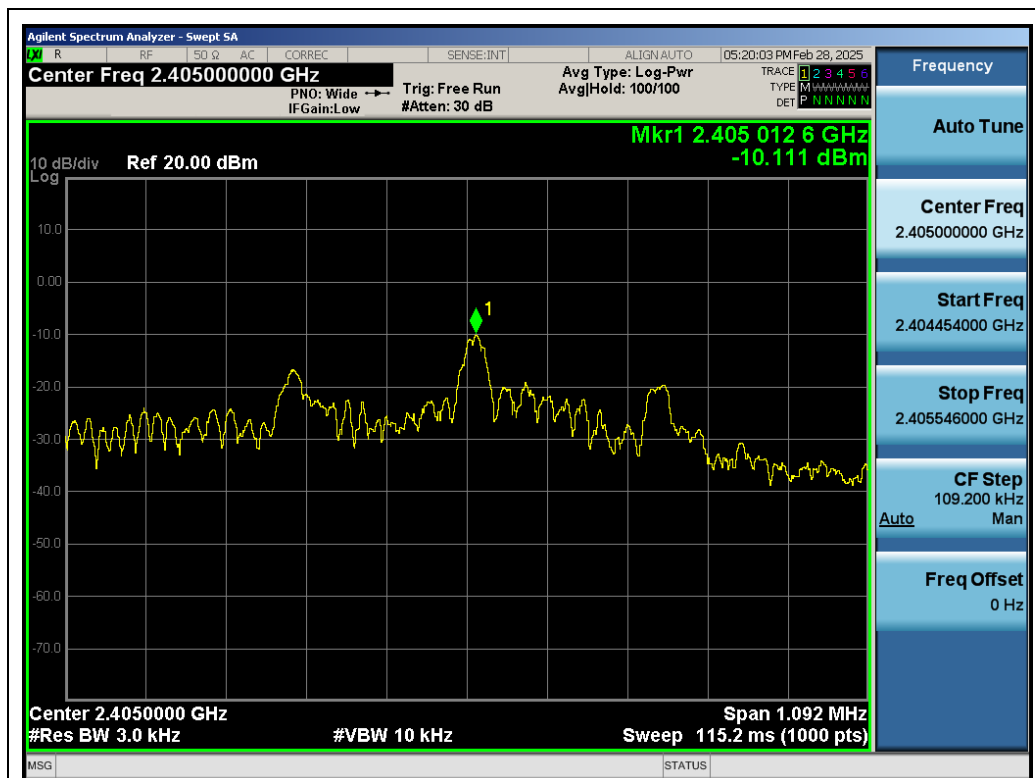


Appendix C: Maximum peak power spectral density

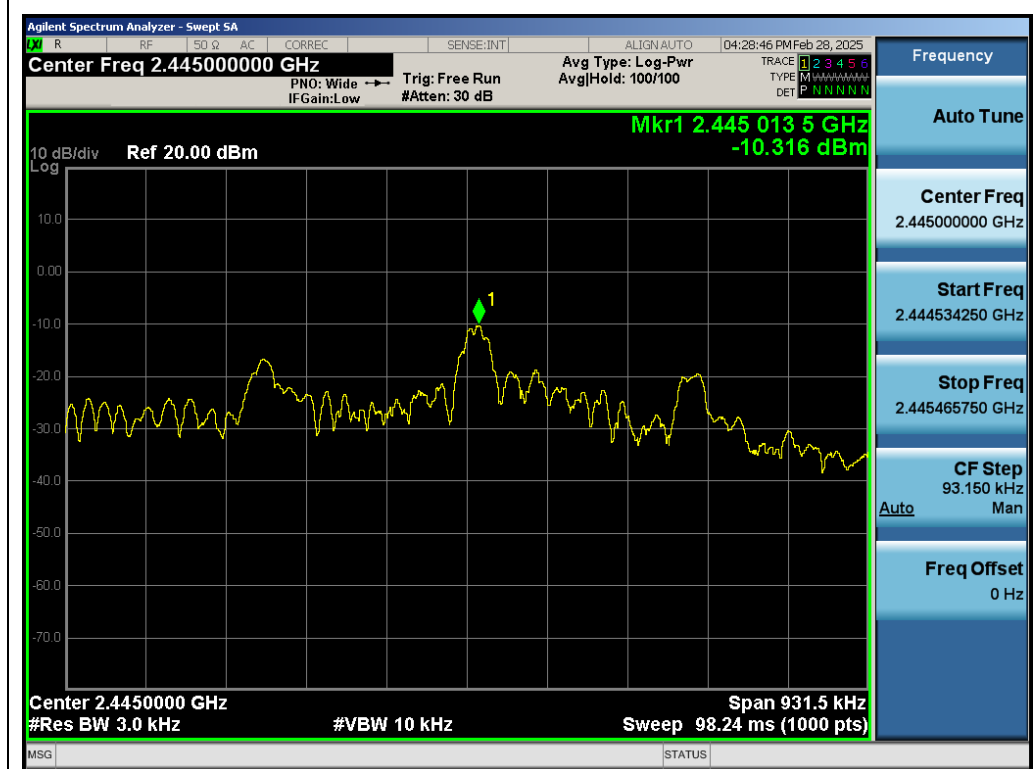
Test Result

Test Mode	Test Channel (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
GFSK	2405	-10.111	≤ 8	Pass
	2445	-10.316	≤ 8	Pass
	2475	-10.551	≤ 8	Pass

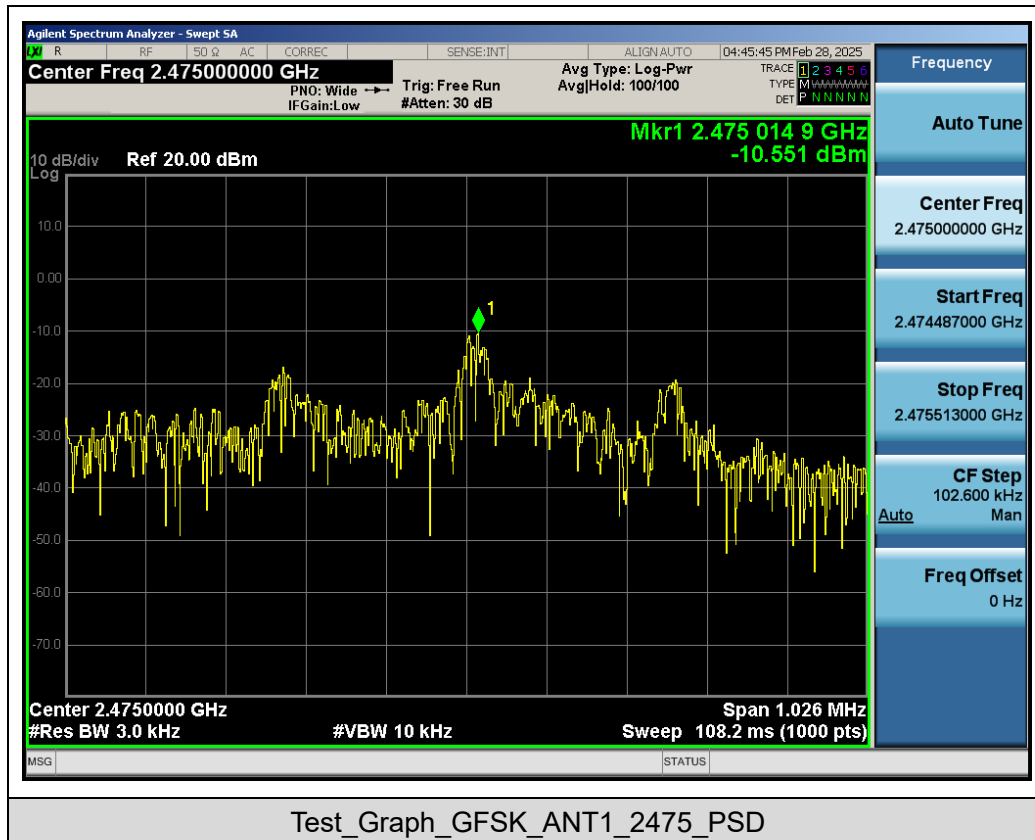
Test Graphs



Test_Graph_GFSK_ANT1_2405_PSD



Test_Graph_GFSK_ANT1_2445_PSD

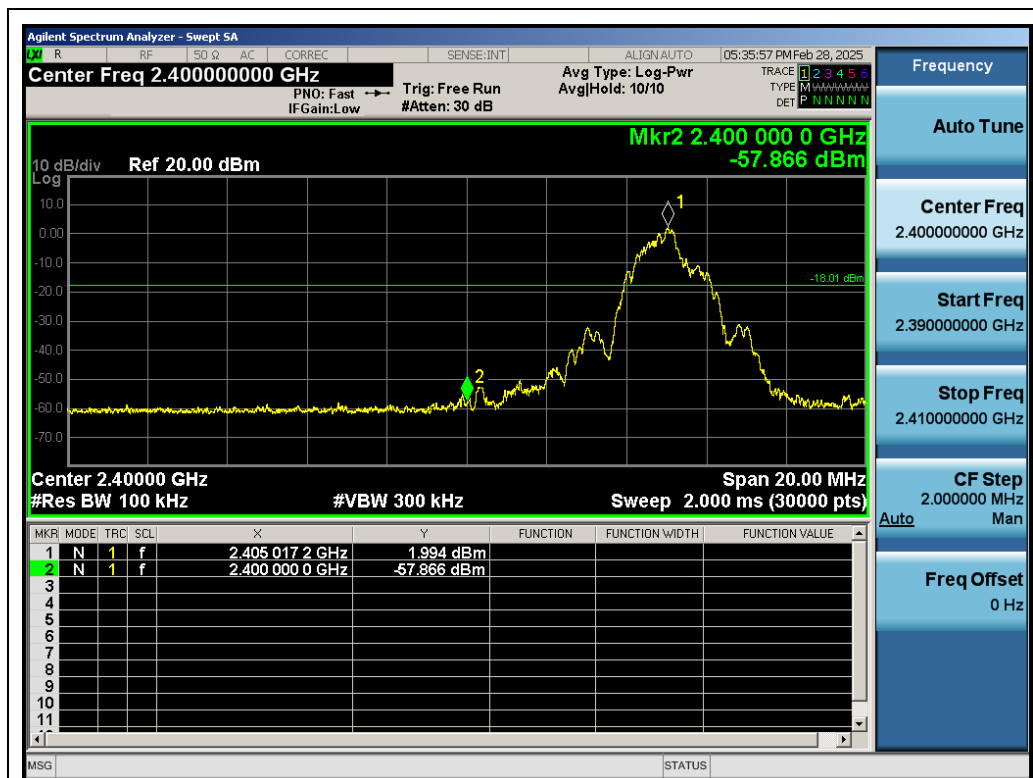


Appendix D: Band edge measurements

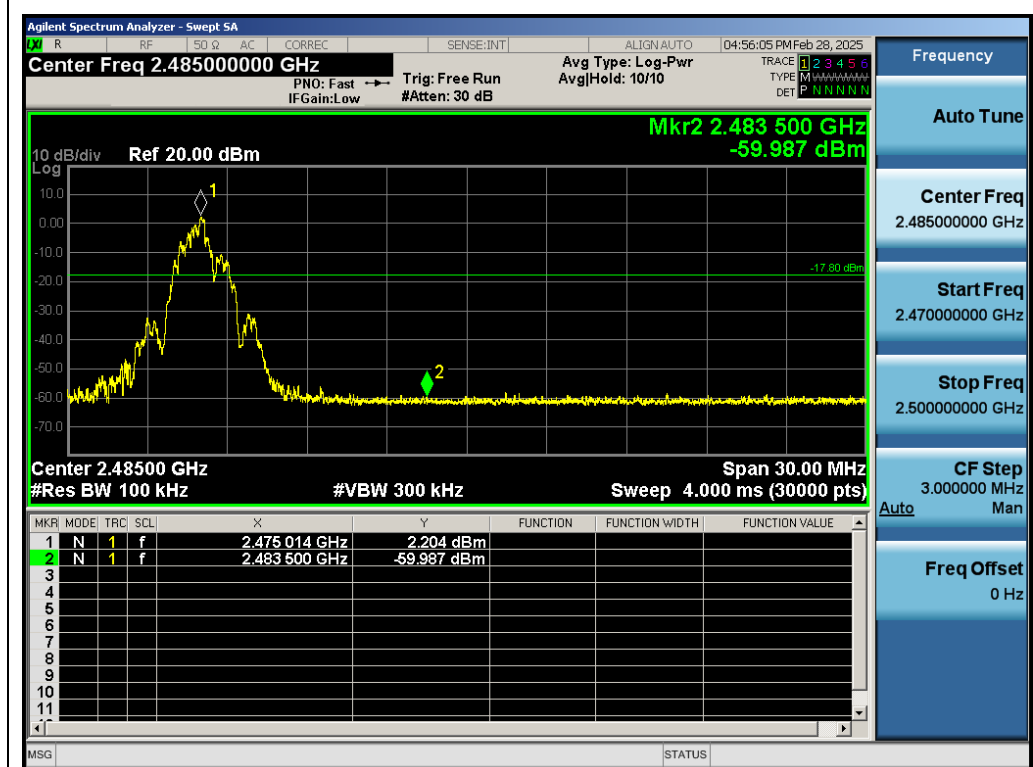
Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2405	1.994	-57.866	≤-18.01	PASS
2.4G	Ant1	High	2475	2.204	-59.987	≤-17.80	PASS

Test Graphs



Test_Graph_GFSK_ANT1_2405_Lower Band Edge Emissions



Test_Graph_GFSK_ANT1_2475_Higher Band Edge Emissions

Appendix F: Conducted Spurious Emission

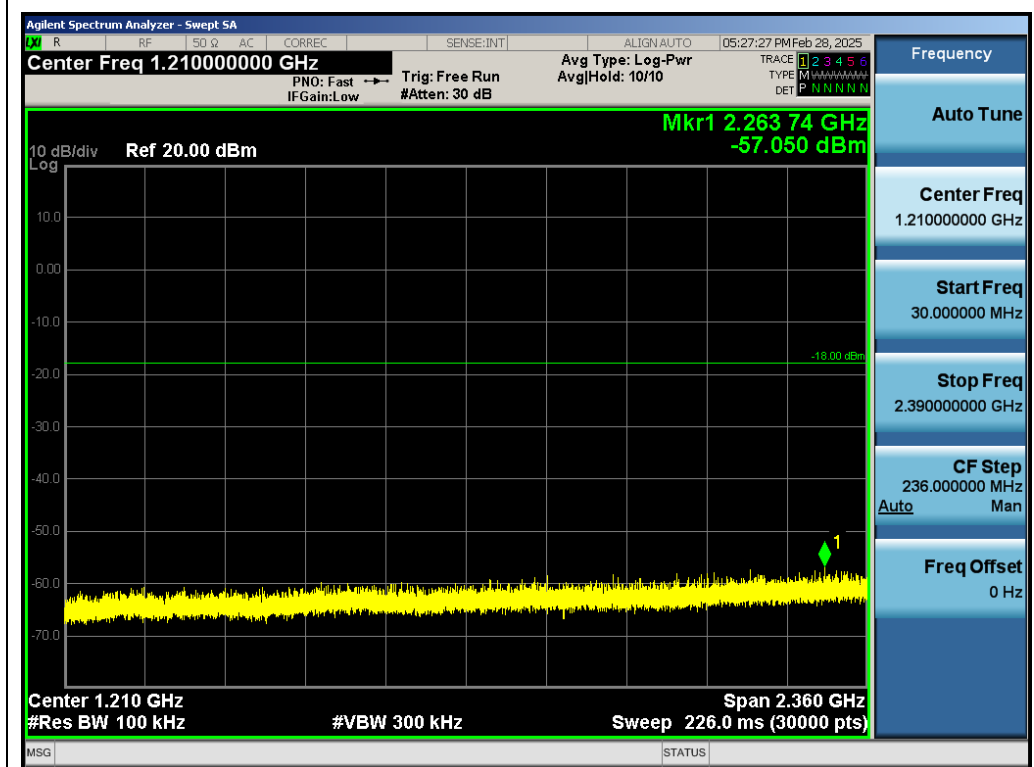
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2405	0~Reference	1.996	1.996	---	PASS
2.4G	Ant1	2405	30~1000	1.996	-57.050	≤-18.00	PASS
2.4G	Ant1	2405	1000~26500	1.996	-49.311	≤-18.00	PASS
2.4G	Ant1	2445	0~Reference	1.998	1.998	---	PASS
2.4G	Ant1	2445	30~1000	1.998	-56.266	≤-18.00	PASS
2.4G	Ant1	2445	1000~26500	1.998	-49.120	≤-18.00	PASS
2.4G	Ant1	2475	0~Reference	2.218	2.218	---	PASS
2.4G	Ant1	2475	30~1000	2.218	-57.804	≤-17.78	PASS
2.4G	Ant1	2475	1000~26500	2.218	-38.170	≤-17.78	PASS

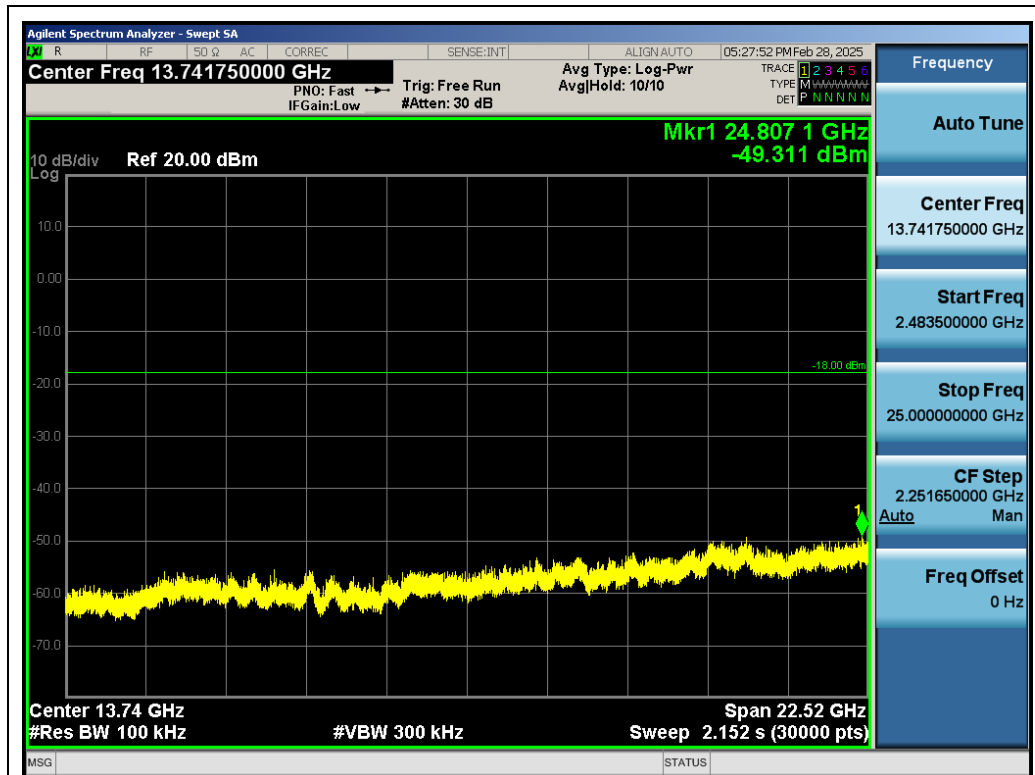
Test Graphs



Test_Graph_GFSK_ANT1_2405_Reference Level



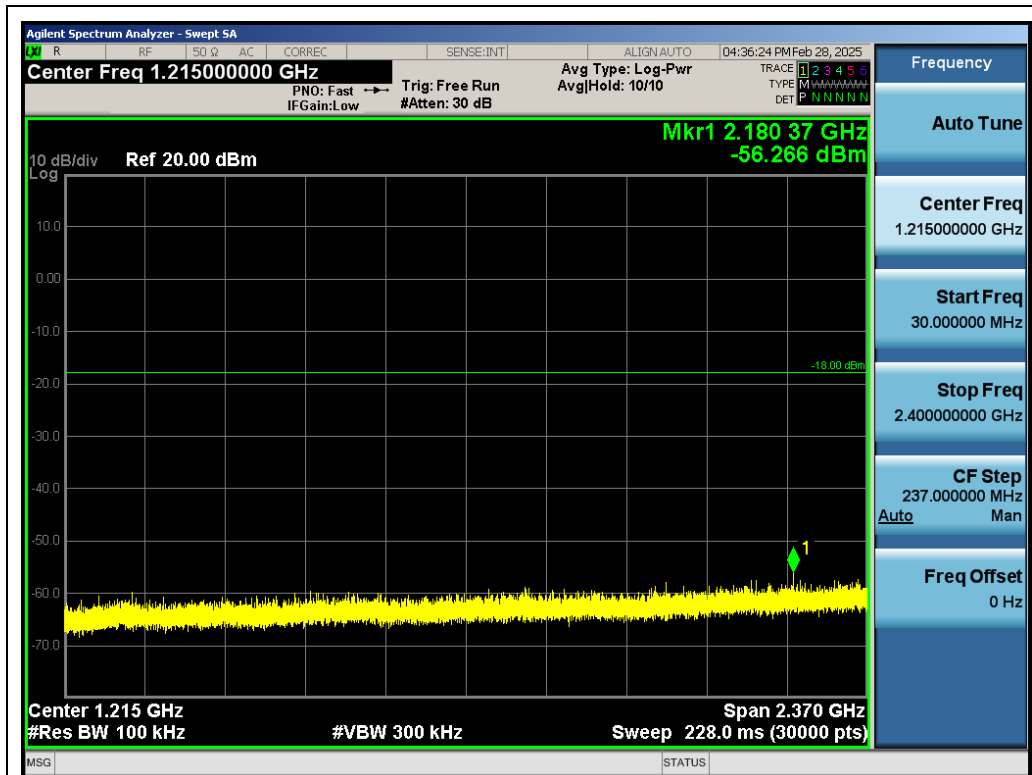
Test_Graph_GFSK_ANT1_2405_Lower Band Emissions



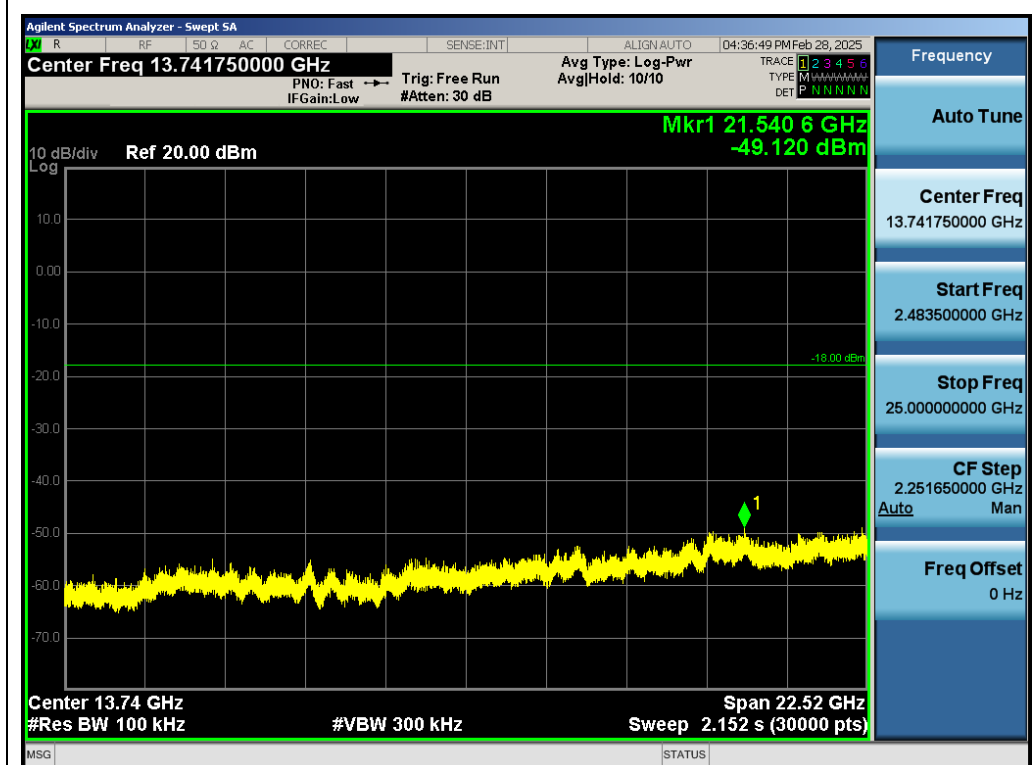
Test_Graph_GFSK_ANT1_2405_Higher Band Emissions



Test_Graph_GFSK_ANT1_2445_Reference Level



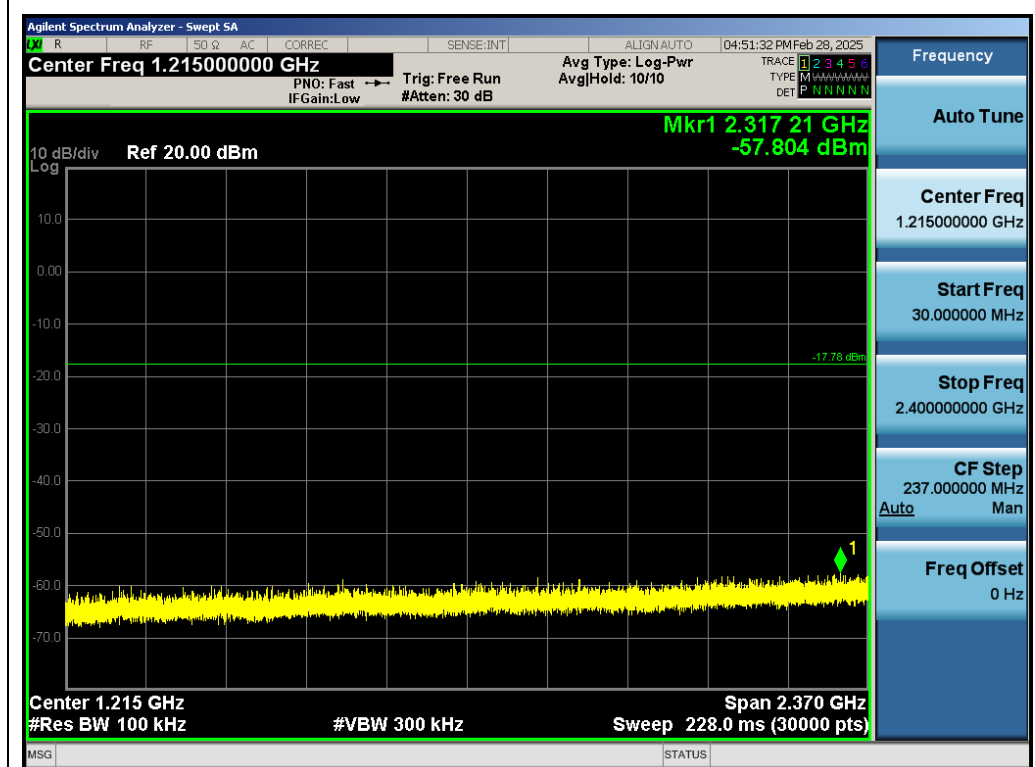
Test_Graph_GFSK_ANT1_2445_Lower Band Emissions



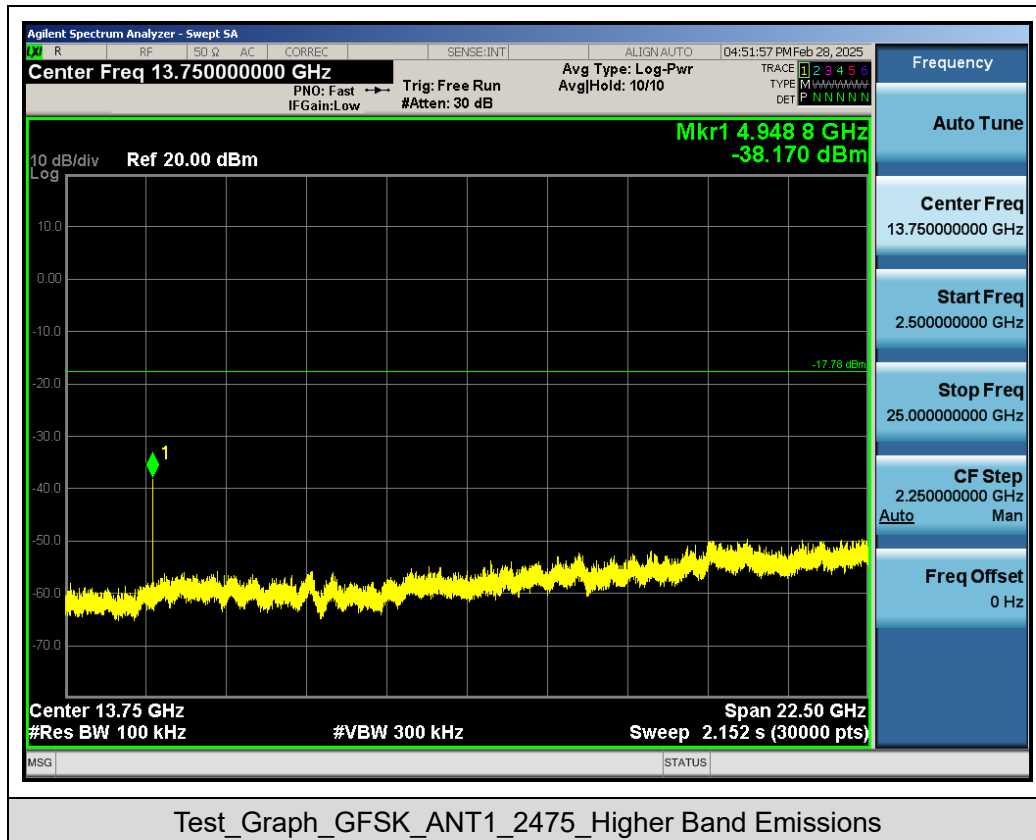
Test_Graph_GFSK_ANT1_2445_Higher Band Emissions



Test_Graph_GFSK_ANT1_2475_Reference Level



Test_Graph_GFSK_ANT1_2475_Lower Band Emissions



Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
2.4G	Ant1	2405	0.107	9.99	1.07	19.71
2.4G	Ant1	2445	0.107	10.01	1.07	19.71
2.4G	Ant1	2475	0.107	10.01	1.07	19.71

Test Graphs

