



Appendix B

RF Test Data for BT (BLE) (Conducted Measurement)

Product Name: LED Controller

Trade Mark: LTECH

Test Model: CG-LINK

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



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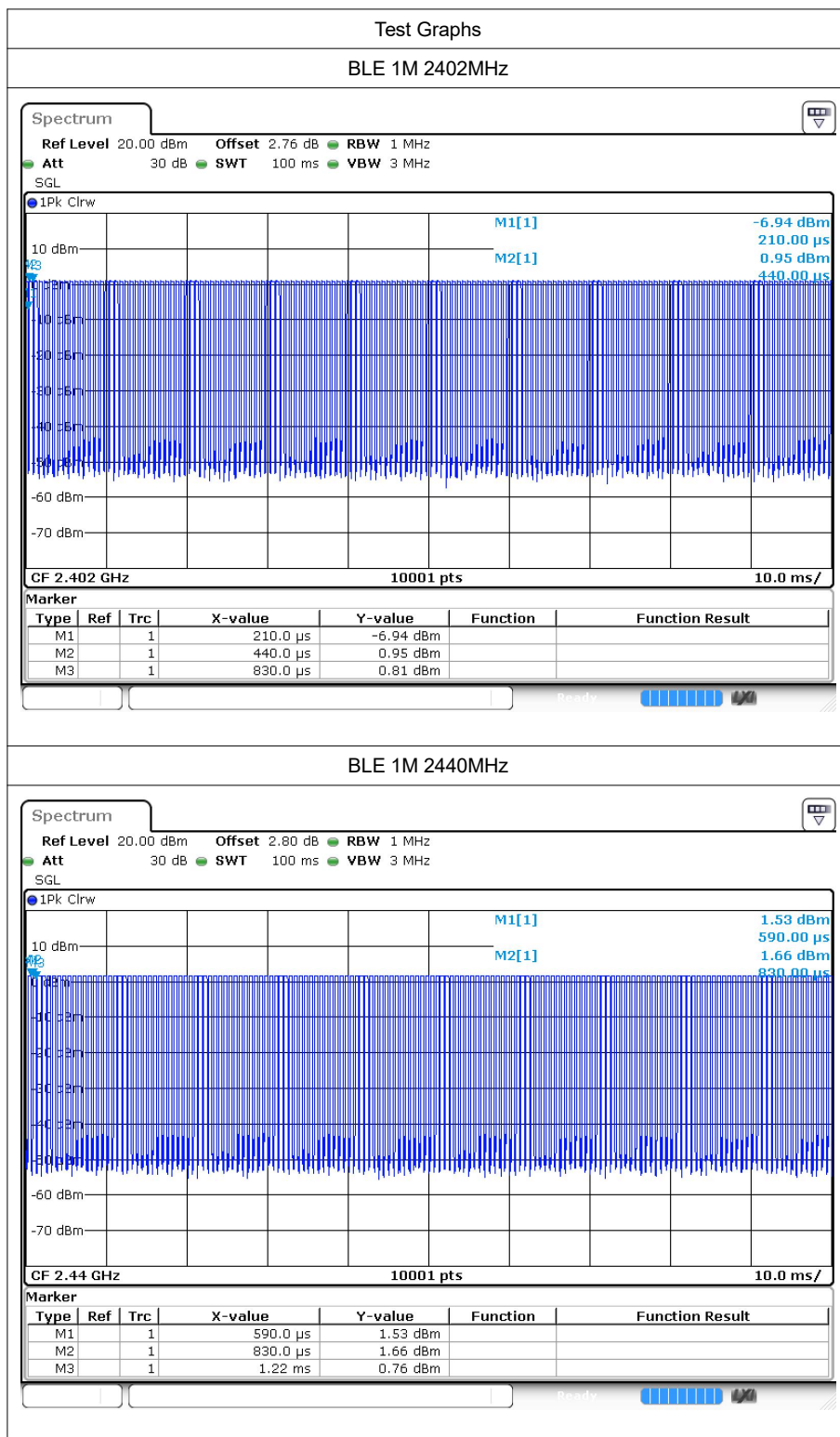


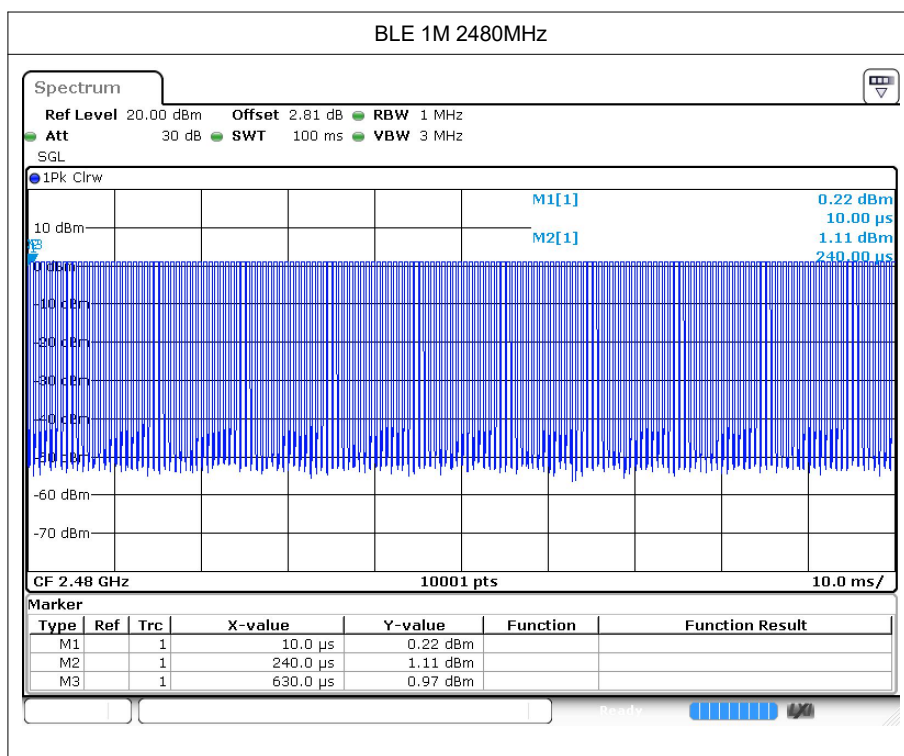
1 Duty Cycle

1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
BLE 1M	2402	64.61	1.9	2.56
BLE 1M	2440	64.23	1.92	2.56
BLE 1M	2480	64.48	1.91	2.56

1.2 Test Graphs





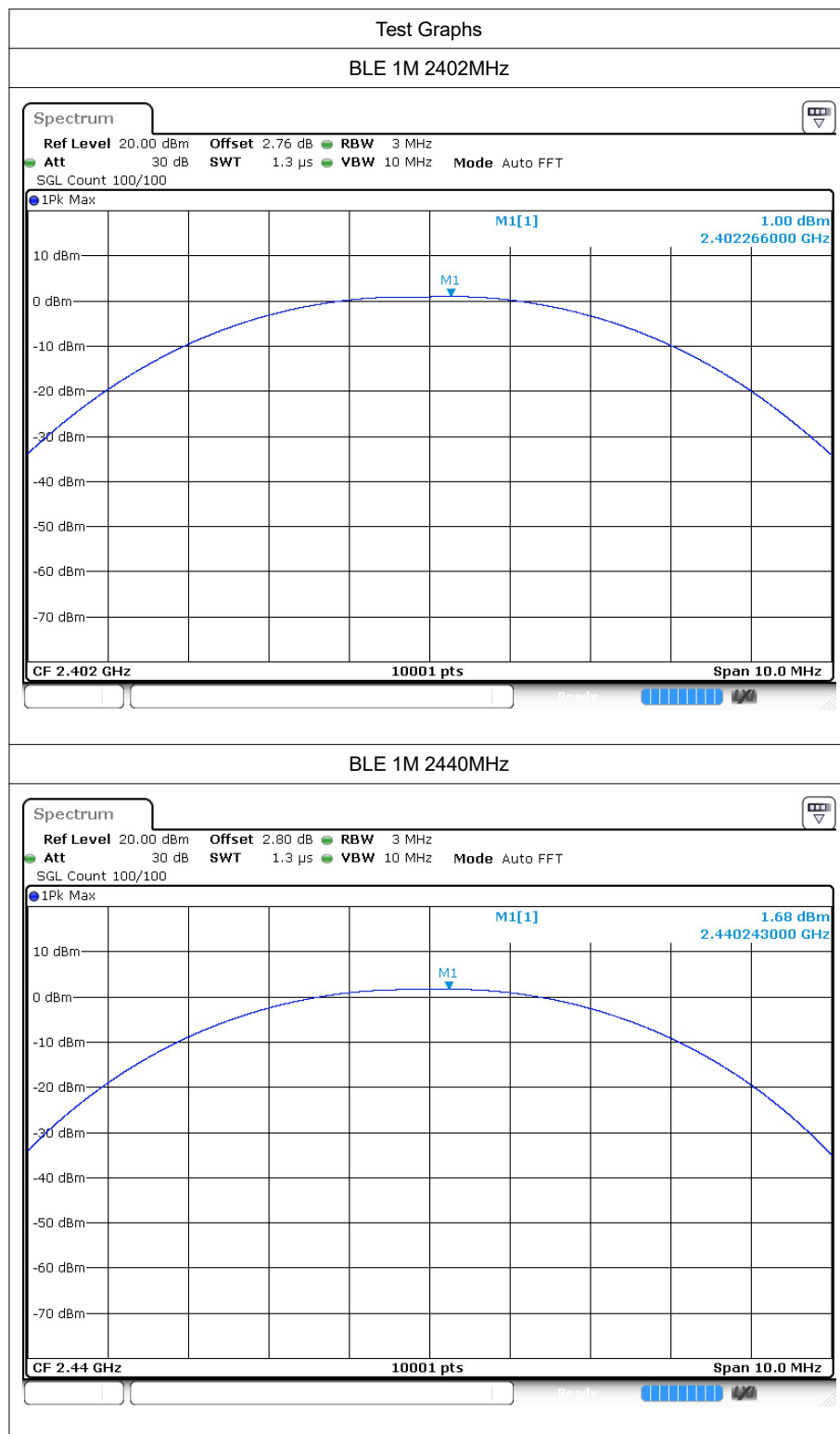


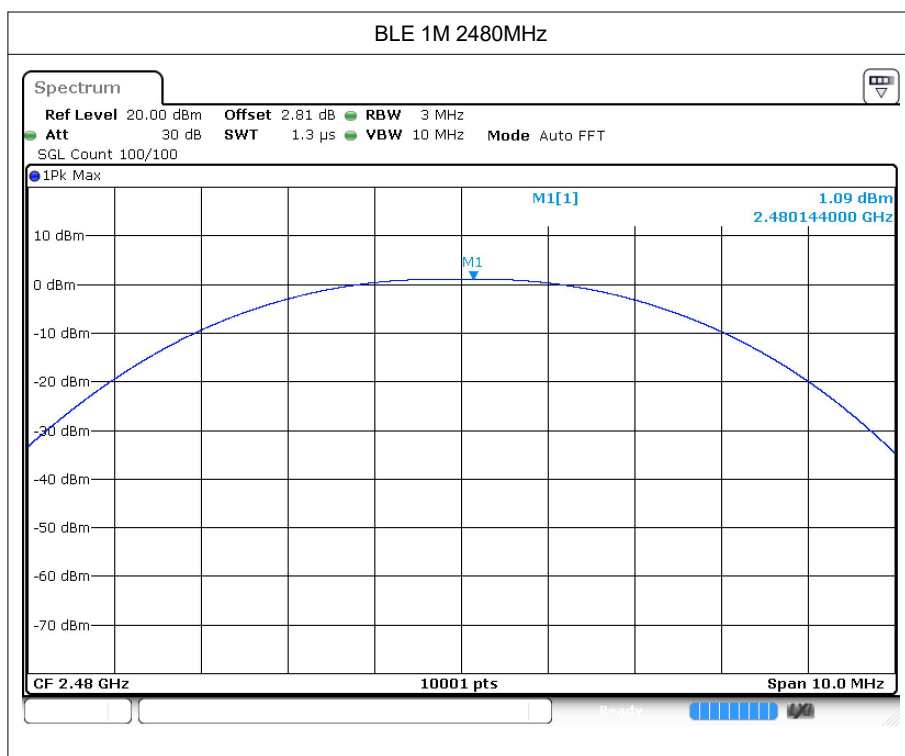
2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	1	30	Pass
BLE 1M	2440	1.68	30	Pass
BLE 1M	2480	1.09	30	Pass

2.2 Test Graphs





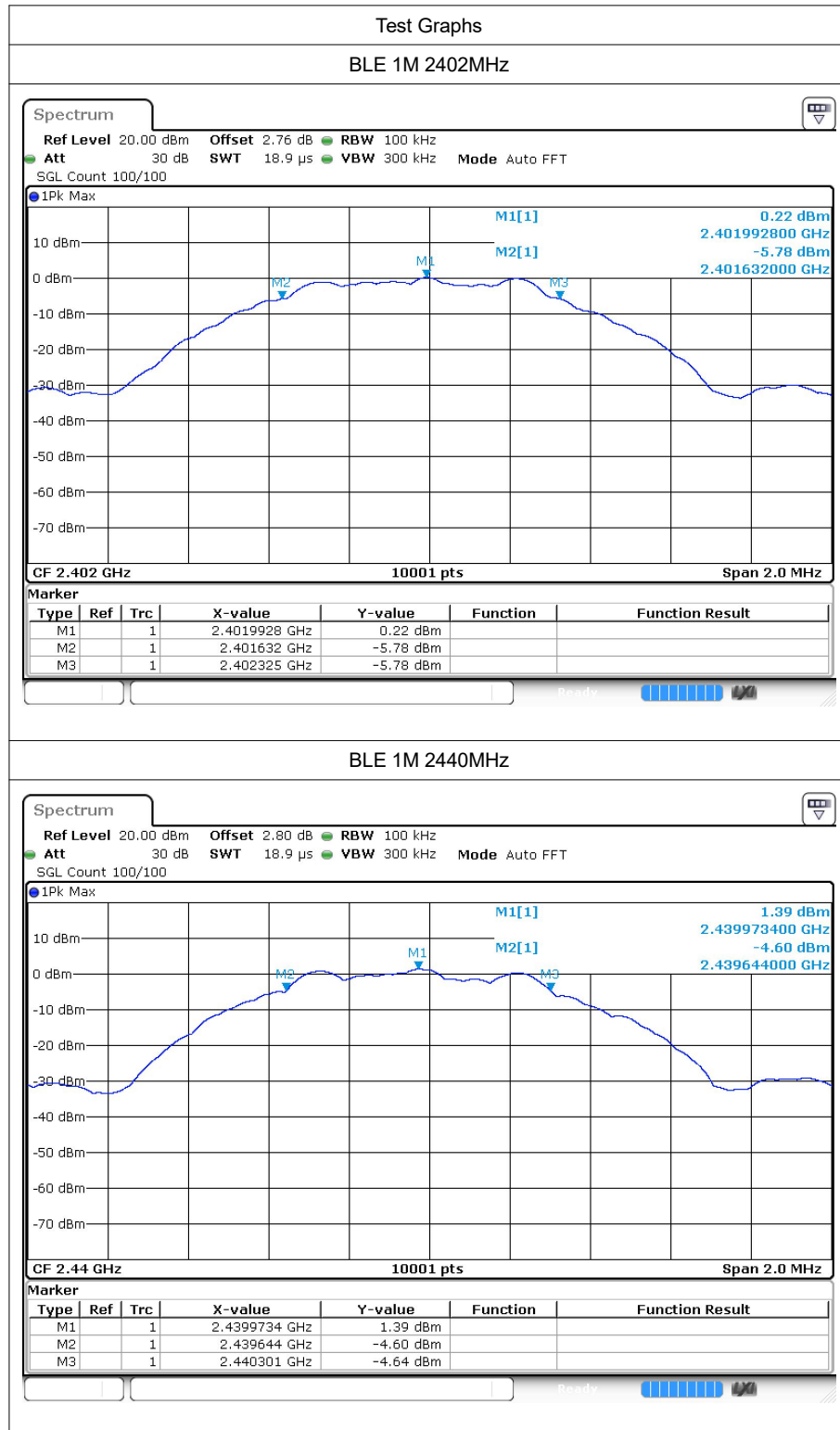


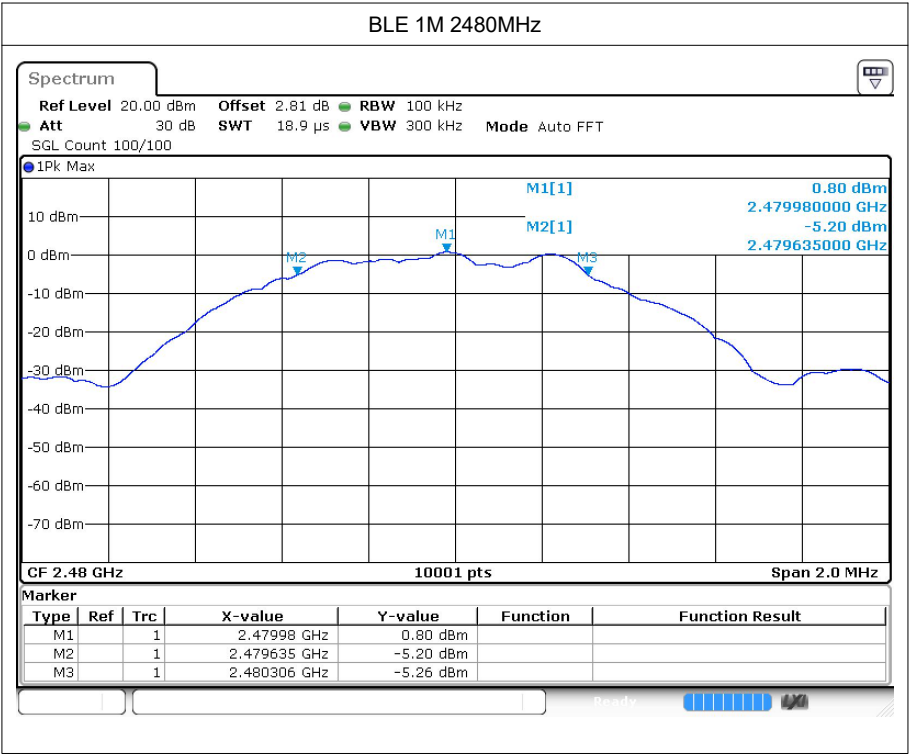
3 -6dB Bandwidth

3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.693	0.5	Pass
BLE 1M	2440	0.657	0.5	Pass
BLE 1M	2480	0.671	0.5	Pass

3.2 Test Graphs





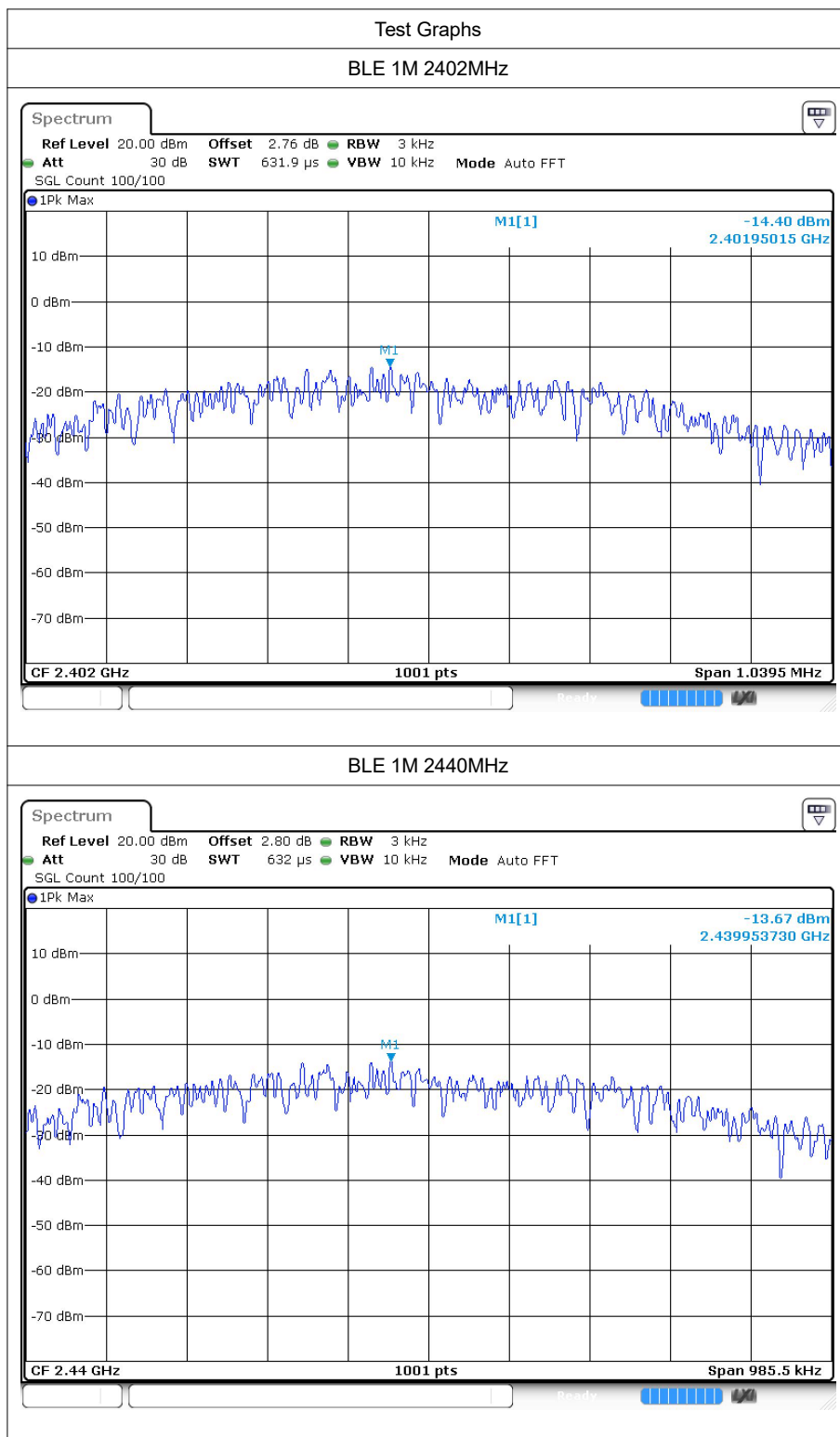


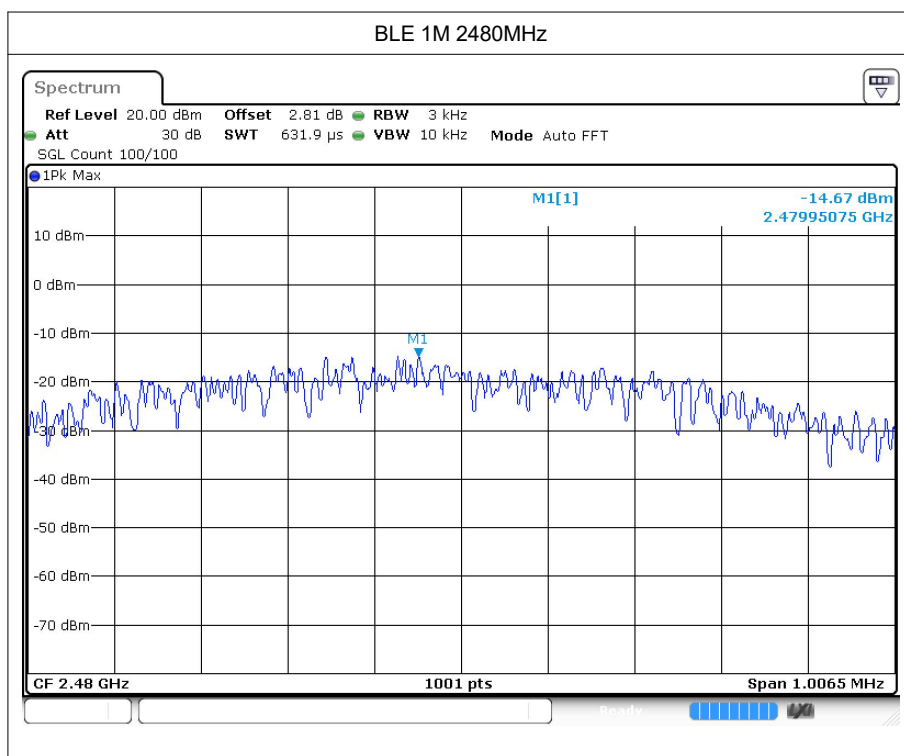
4 Maximum Power Spectral Density Level

4.1 Test Result

Mode	Frequency (MHz)	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-14.4	≤ 8	Pass
BLE 1M	2440	-13.67	≤ 8	Pass
BLE 1M	2480	-14.67	≤ 8	Pass

4.2 Test Graphs





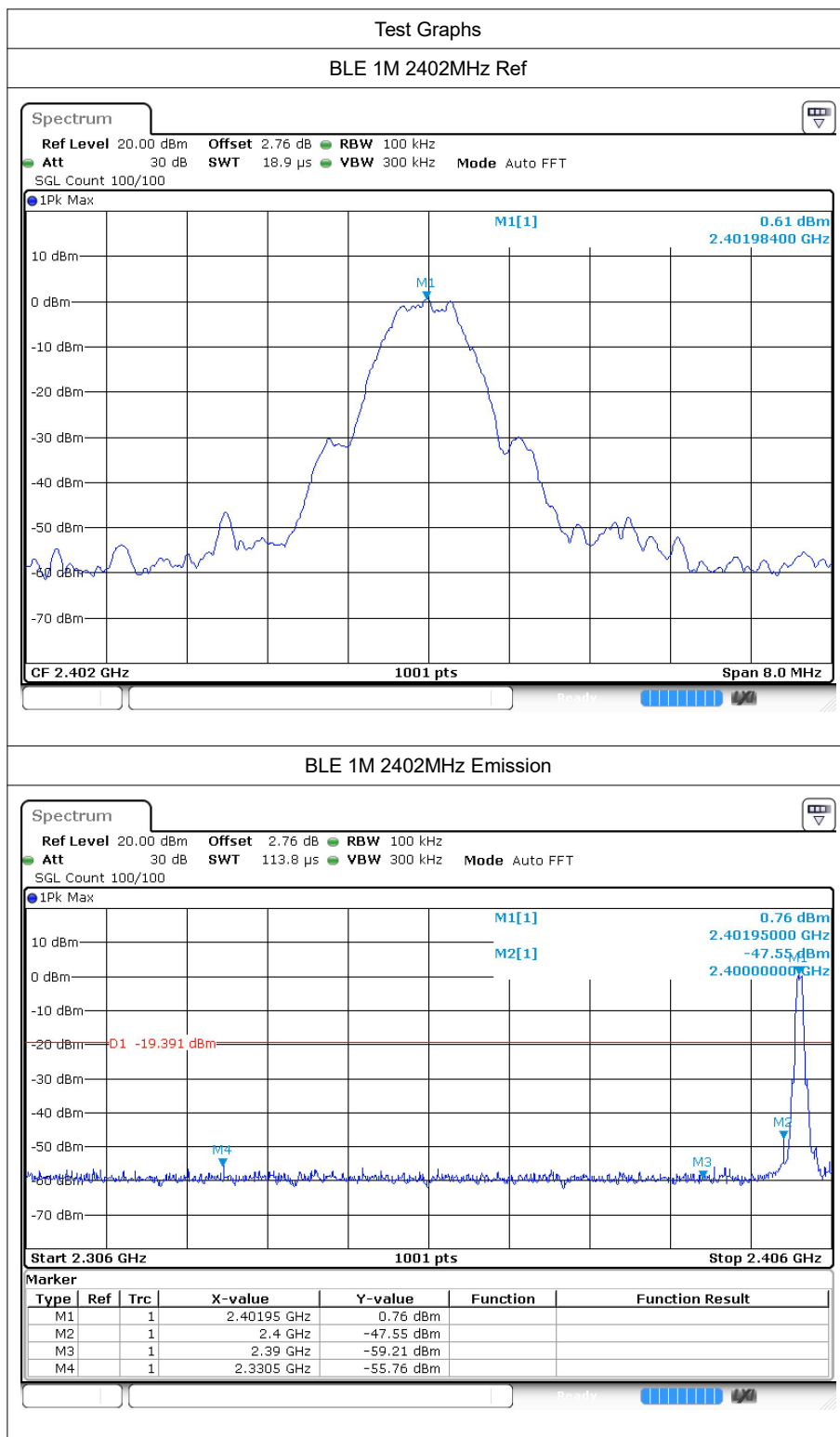


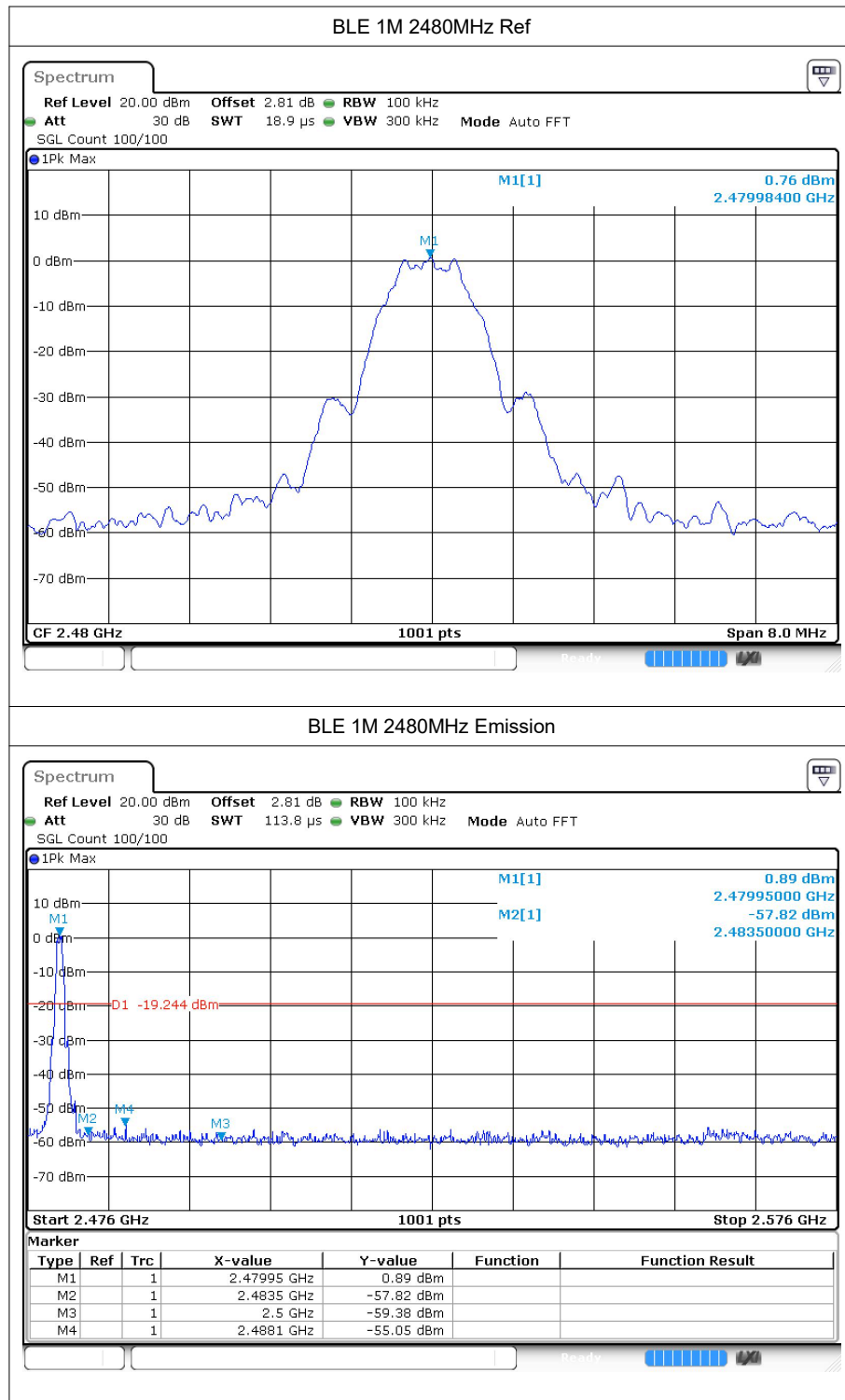
5 Band Edge

5.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-56.37	-20	Pass
BLE 1M	2480	-55.81	-20	Pass

5.2 Test Graphs





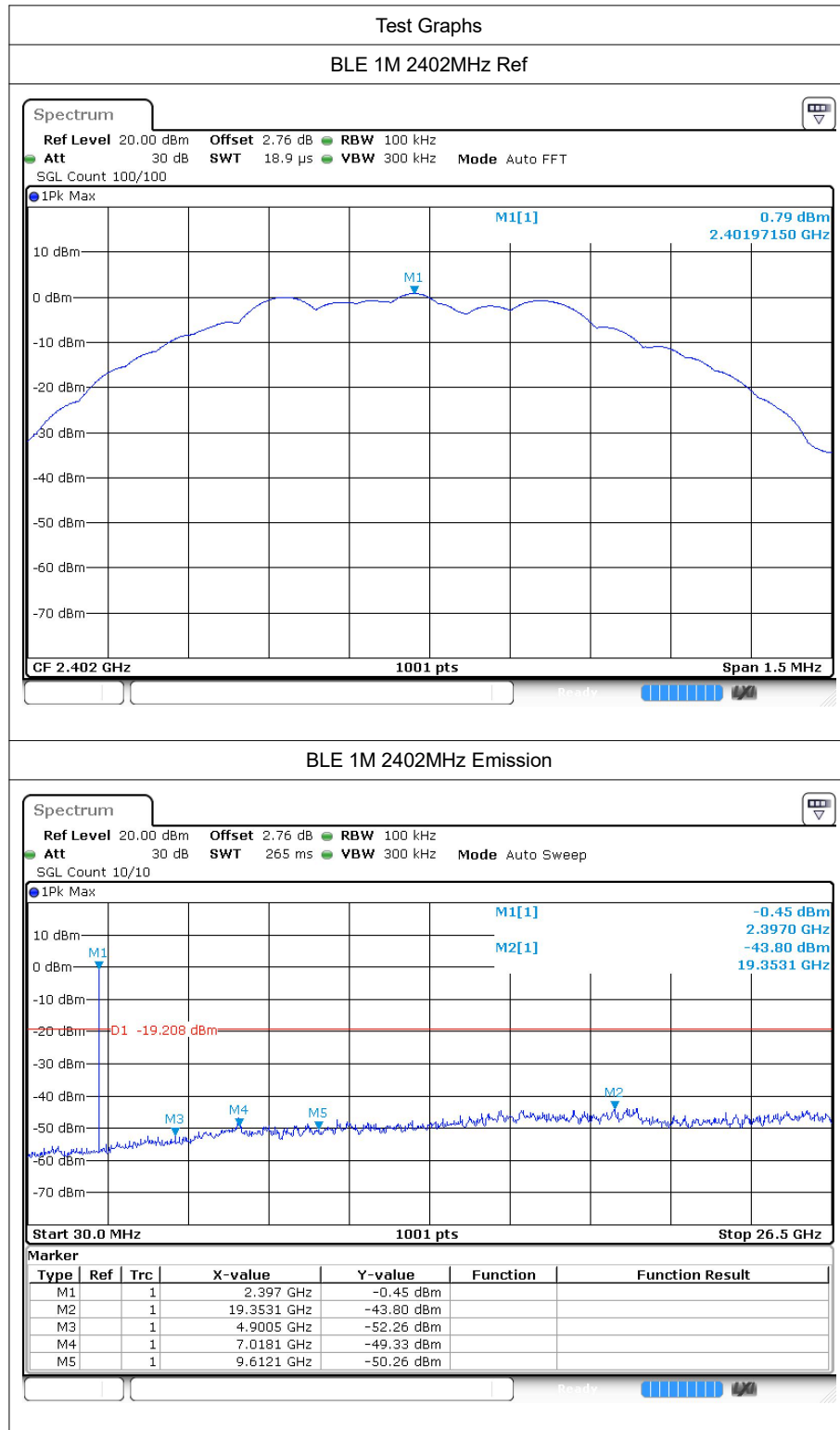


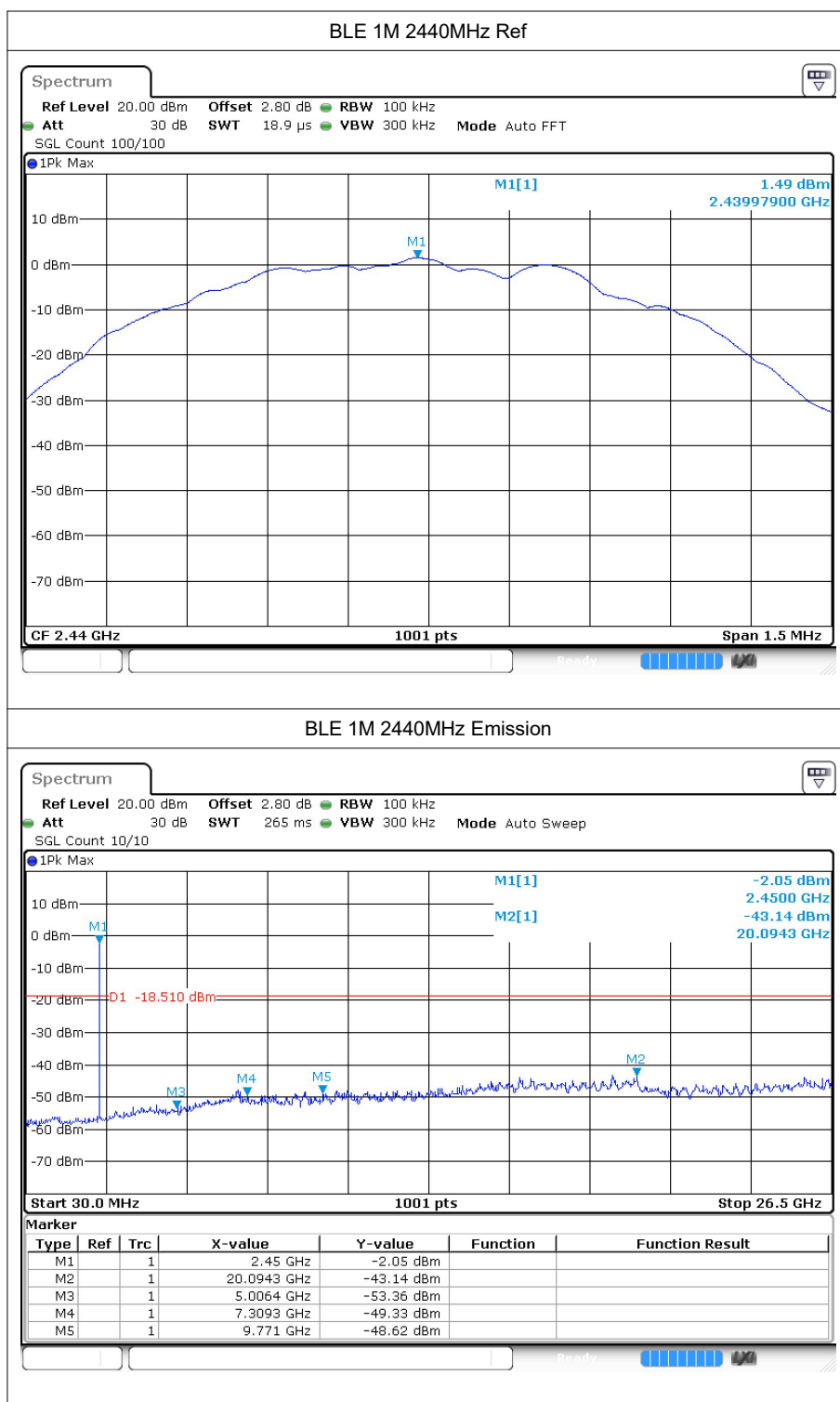
6 Conducted RF Spurious Emission

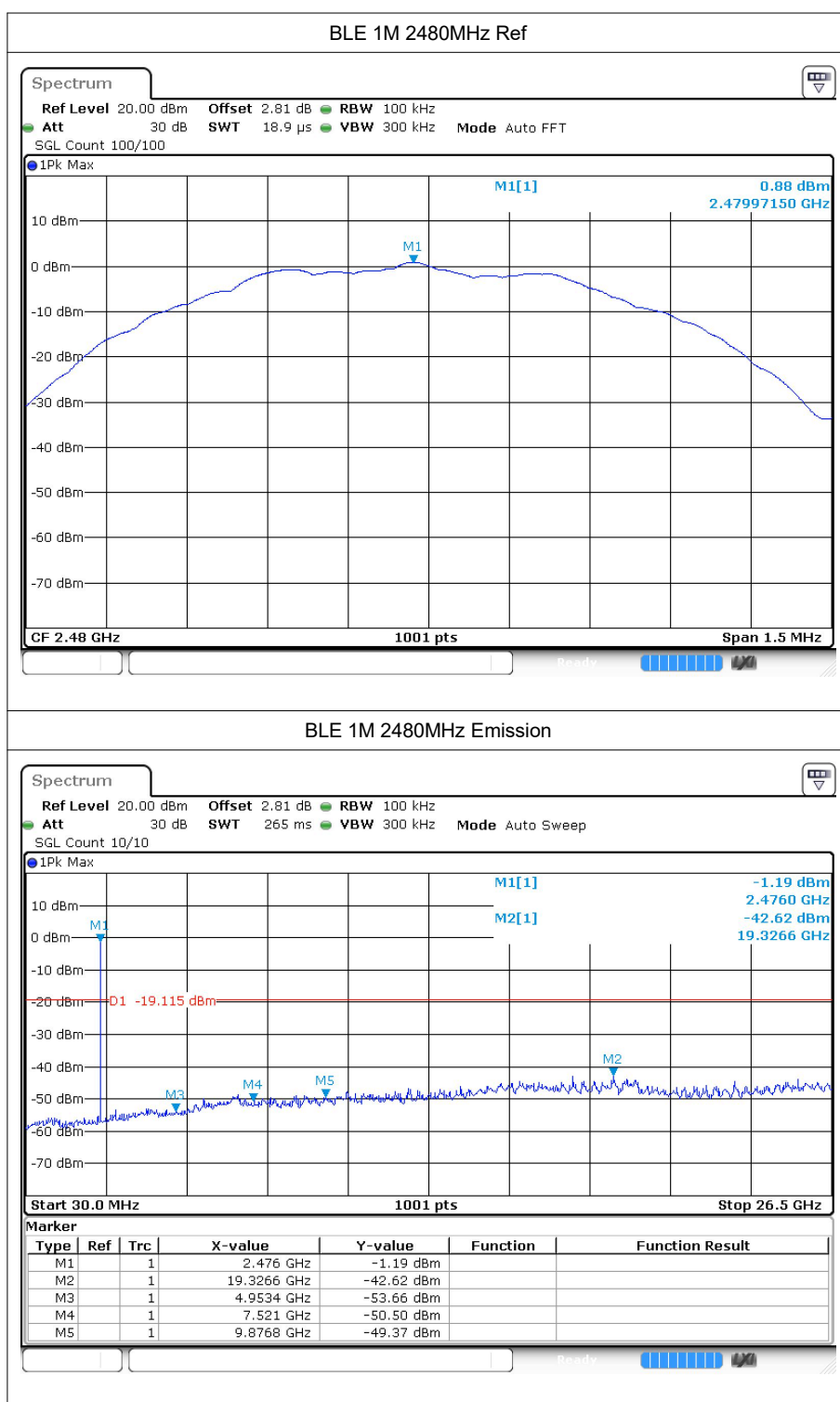
6.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-44.59	-20	Pass
BLE 1M	2440	-44.63	-20	Pass
BLE 1M	2480	-43.5	-20	Pass

6.2 Test Graphs







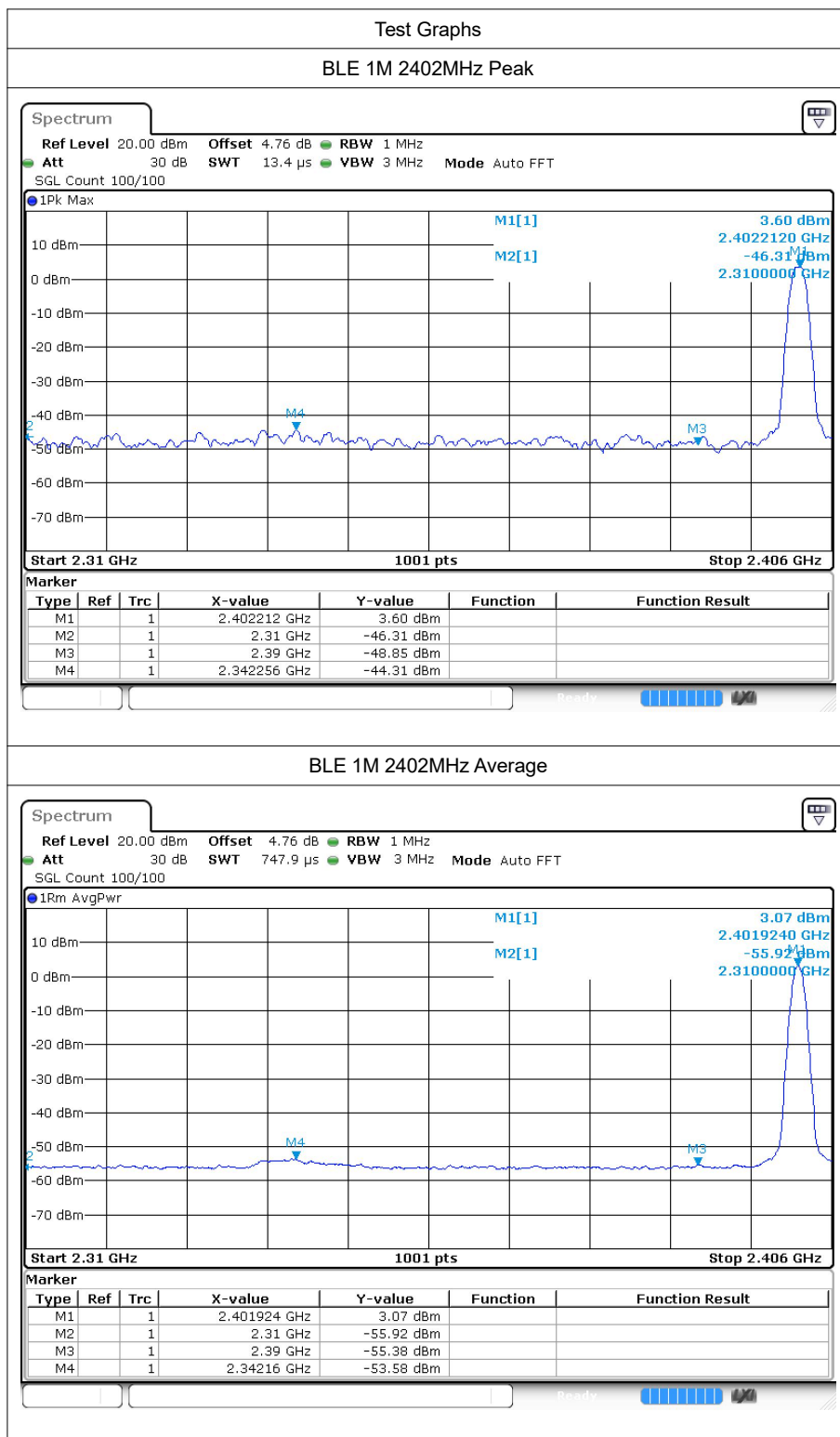


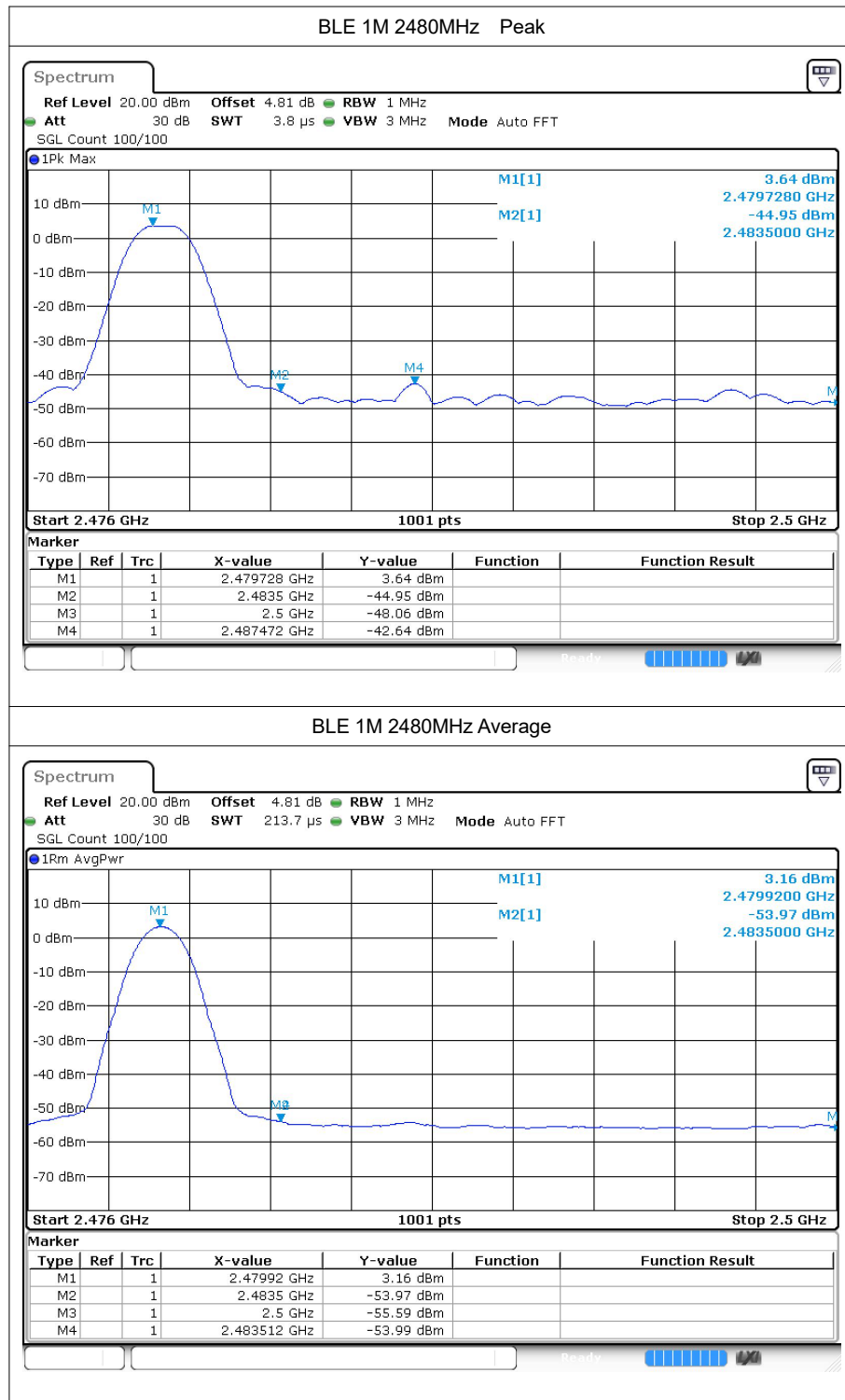
7 Restrict Band

7.1 Test Result

Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
BLE 1M	2402	2310	-46.31	2	-	50.92	Peak	74	Pass
BLE 1M	2402	2310	-55.92	2	1.9	43.21	Average	54	Pass
BLE 1M	2402	2342.256	-44.31	2	-	52.92	Peak	74	Pass
BLE 1M	2402	2342.16	-53.58	2	1.9	45.55	Average	54	Pass
BLE 1M	2402	2390	-48.84	2	-	48.39	Peak	74	Pass
BLE 1M	2402	2390	-55.38	2	1.9	43.75	Average	54	Pass
BLE 1M	2480	2483.5	-45.03	2	-	52.20	Peak	74	Pass
BLE 1M	2480	2483.5	-53.99	2	1.91	45.15	Average	54	Pass
BLE 1M	2480	2487.472	-42.64	2	-	54.59	Peak	74	Pass
BLE 1M	2480	2483.512	-53.99	2	1.91	45.15	Average	54	Pass
BLE 1M	2480	2500	-48.06	2	-	49.17	Peak	74	Pass
BLE 1M	2480	2500	-55.58	2	1.91	43.56	Average	54	Pass

7.2 Test Graphs





---The End---