



Appendix B

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

Product Name: Tail Light

Trade Mark: N/A

Test Model: L7

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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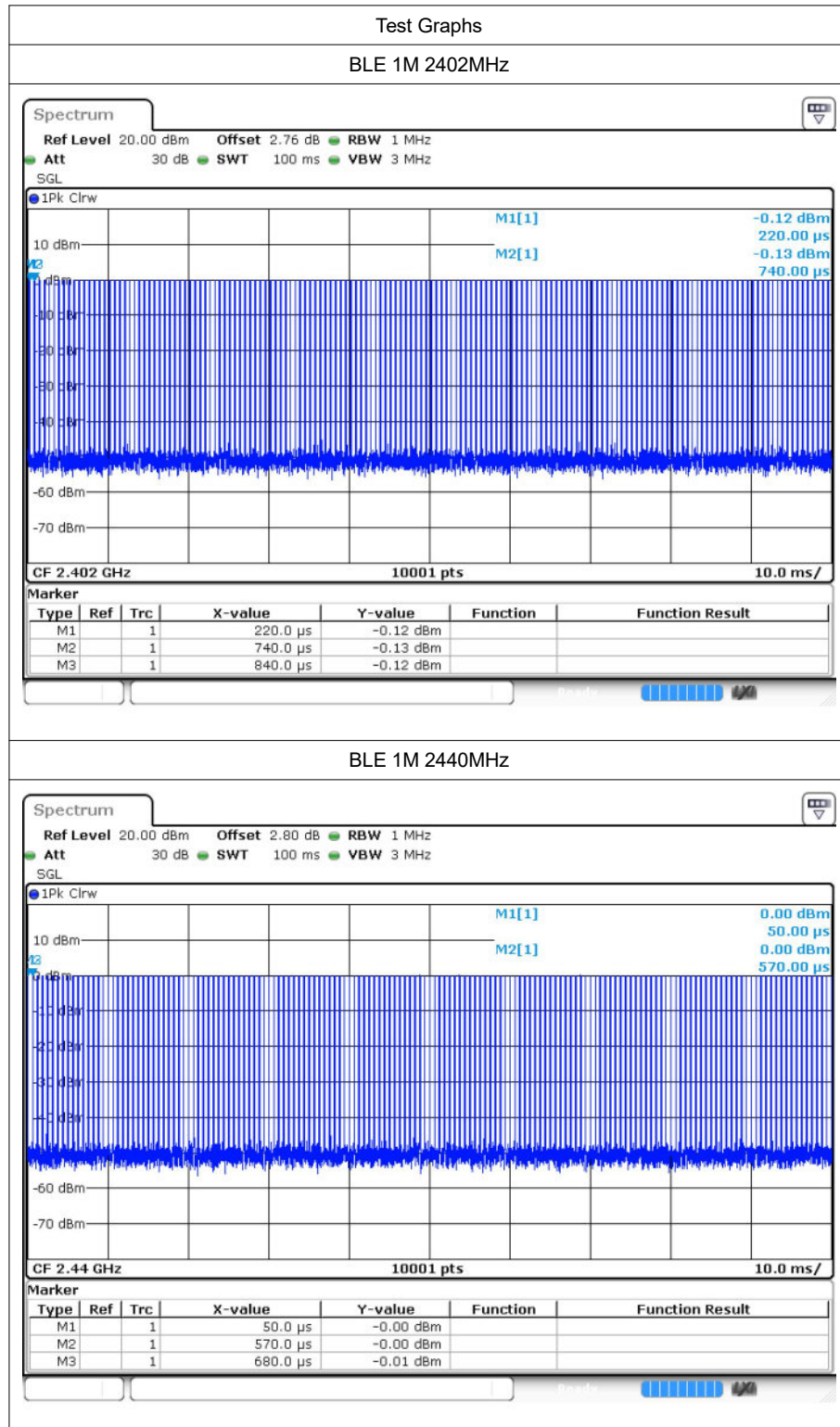


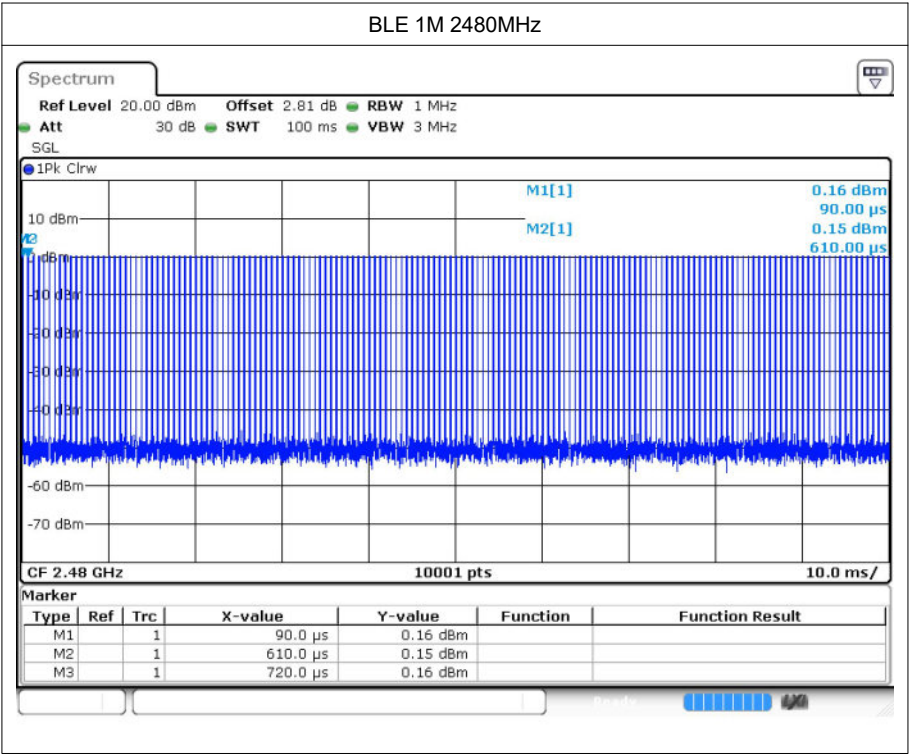
1 Duty Cycle

1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
BLE 1M	2402	18.4	7.35	10
BLE 1M	2440	18.41	7.35	9.09
BLE 1M	2480	18.41	7.35	9.09

1.2 Test Graphs





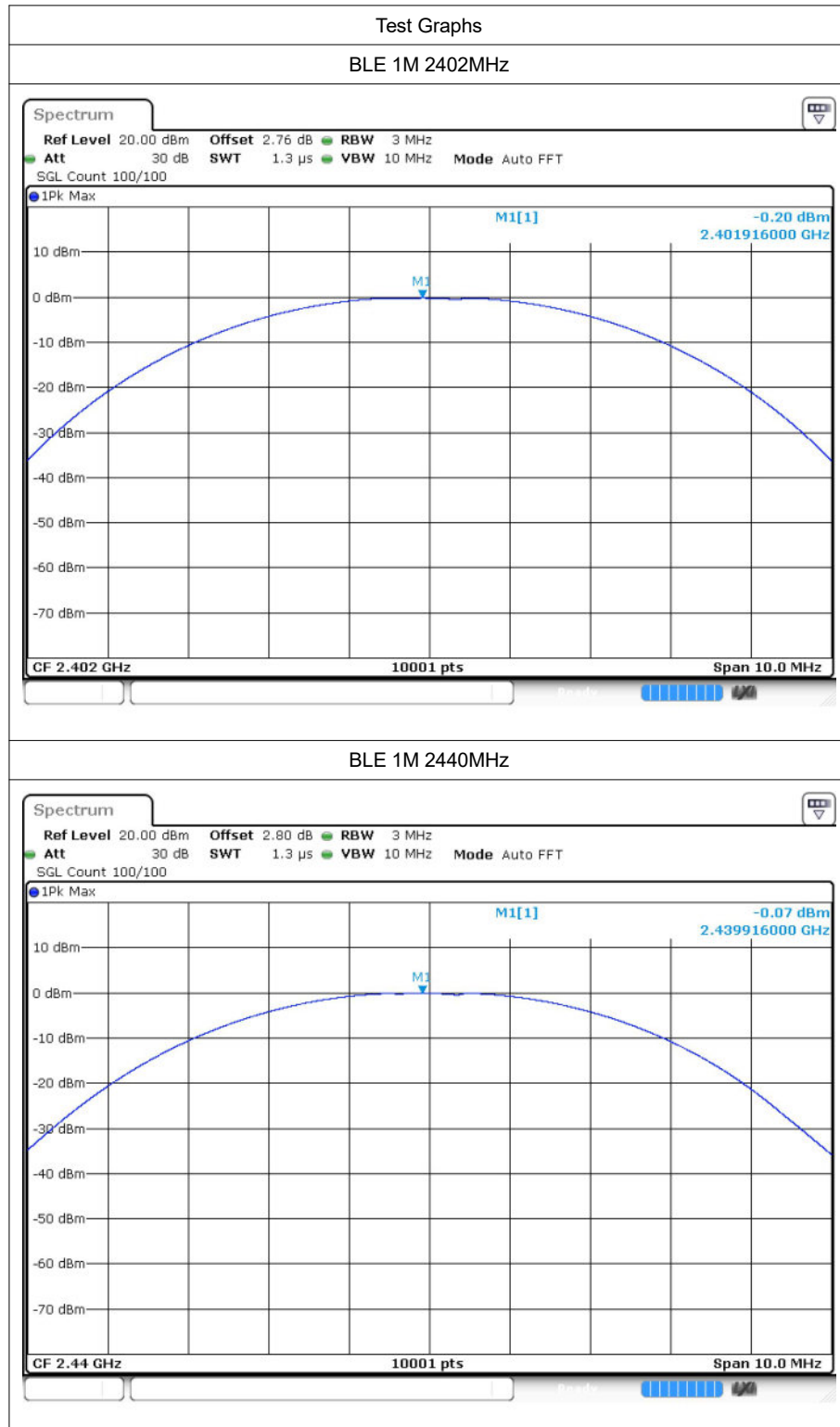


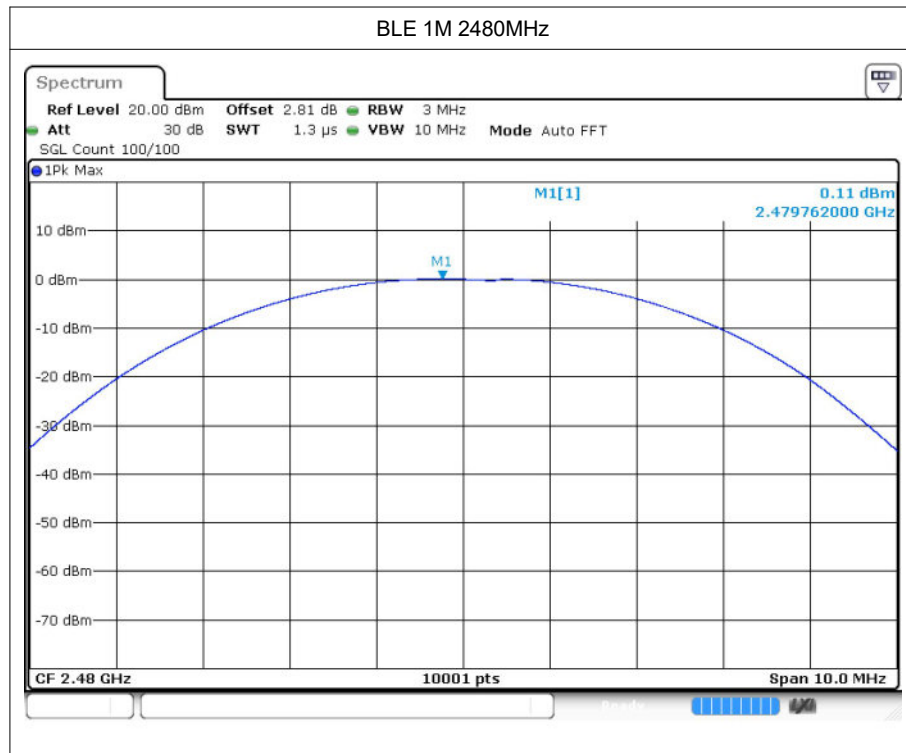
2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	-0.2	30	Pass
BLE 1M	2440	-0.07	30	Pass
BLE 1M	2480	0.11	30	Pass

2.2 Test Graphs





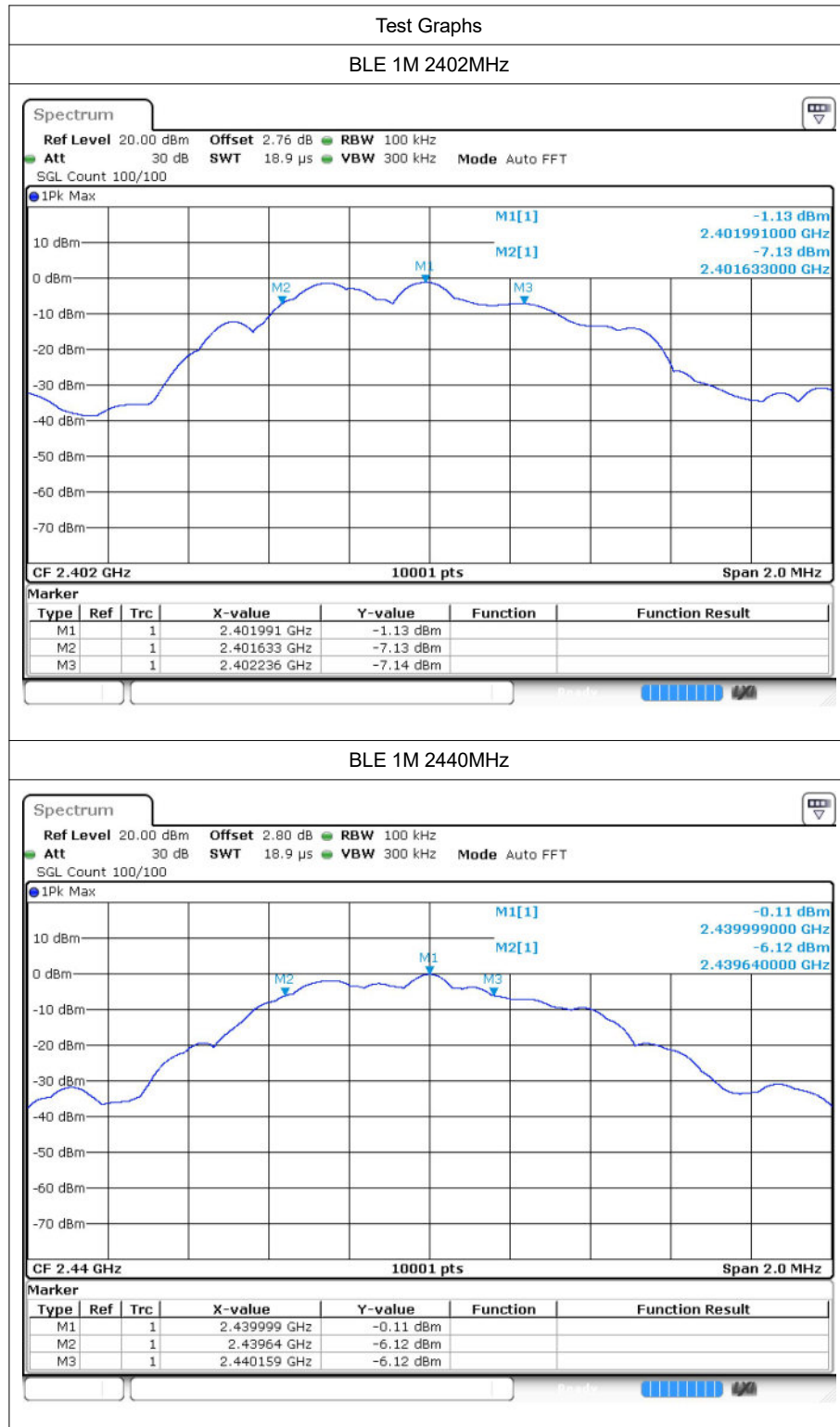


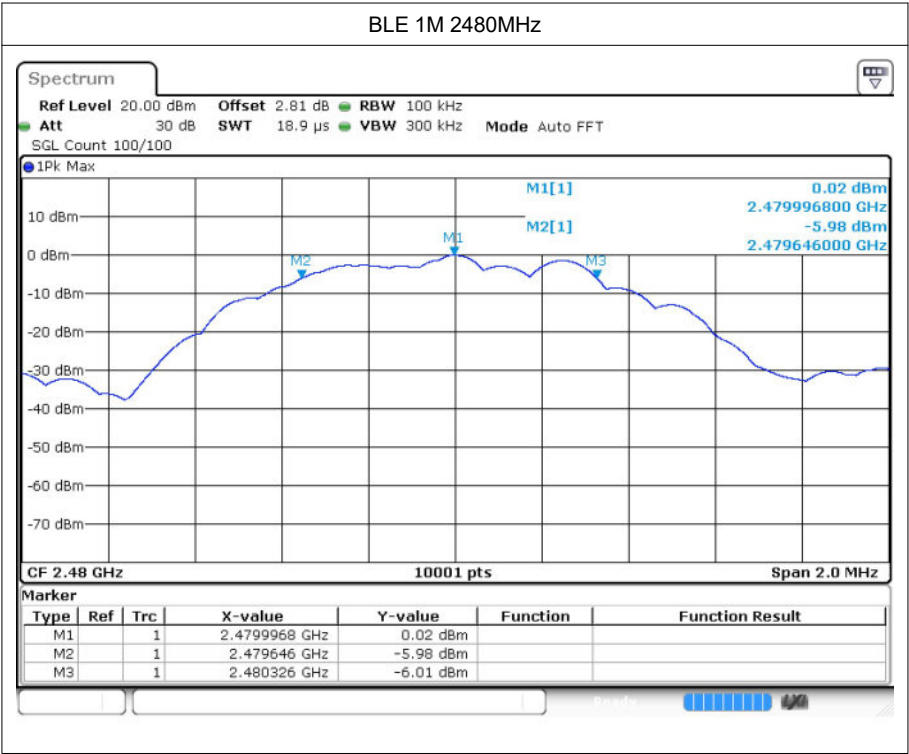
3 -6dB Bandwidth

3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.603	0.5	Pass
BLE 1M	2440	0.519	0.5	Pass
BLE 1M	2480	0.68	0.5	Pass

3.2 Test Graphs





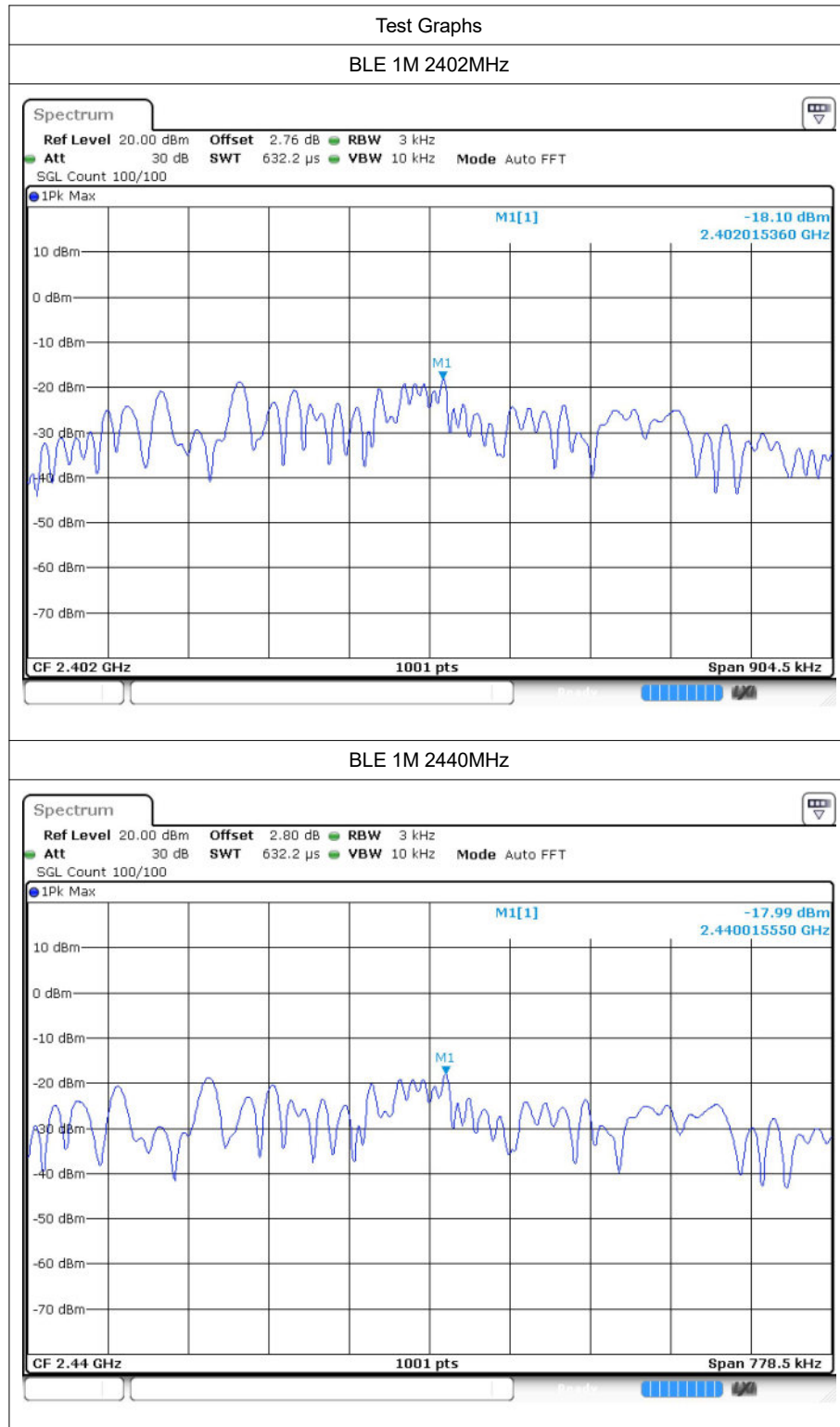


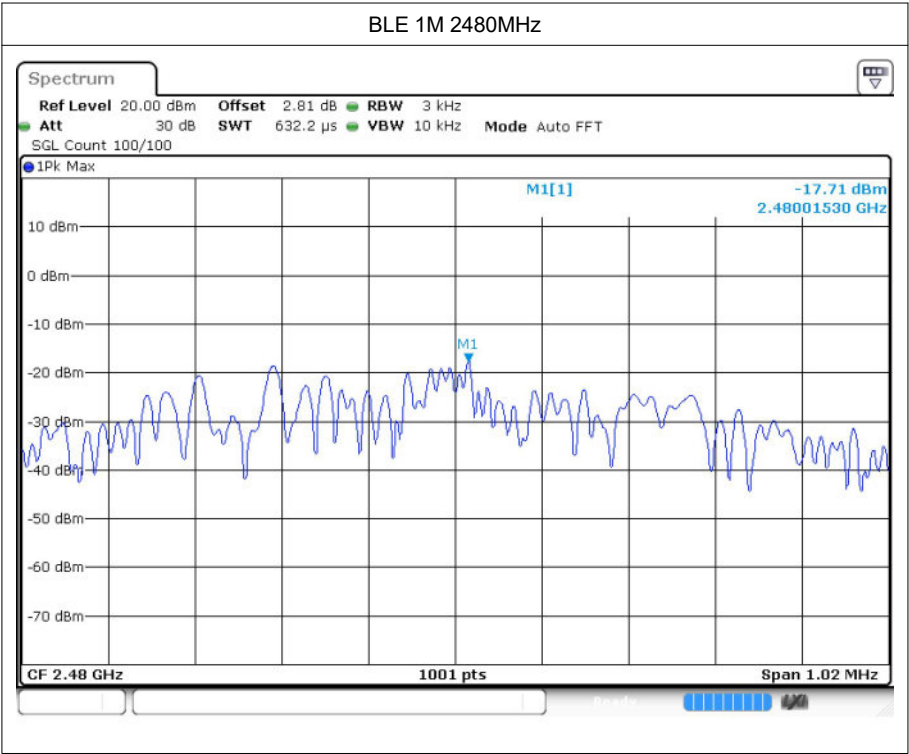
4 Maximum Power Spectral Density Level

4.1 Test Result

Mode	Frequency (MHz)	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-18.1	≤ 8	Pass
BLE 1M	2440	-17.99	≤ 8	Pass
BLE 1M	2480	-17.71	≤ 8	Pass

4.2 Test Graphs





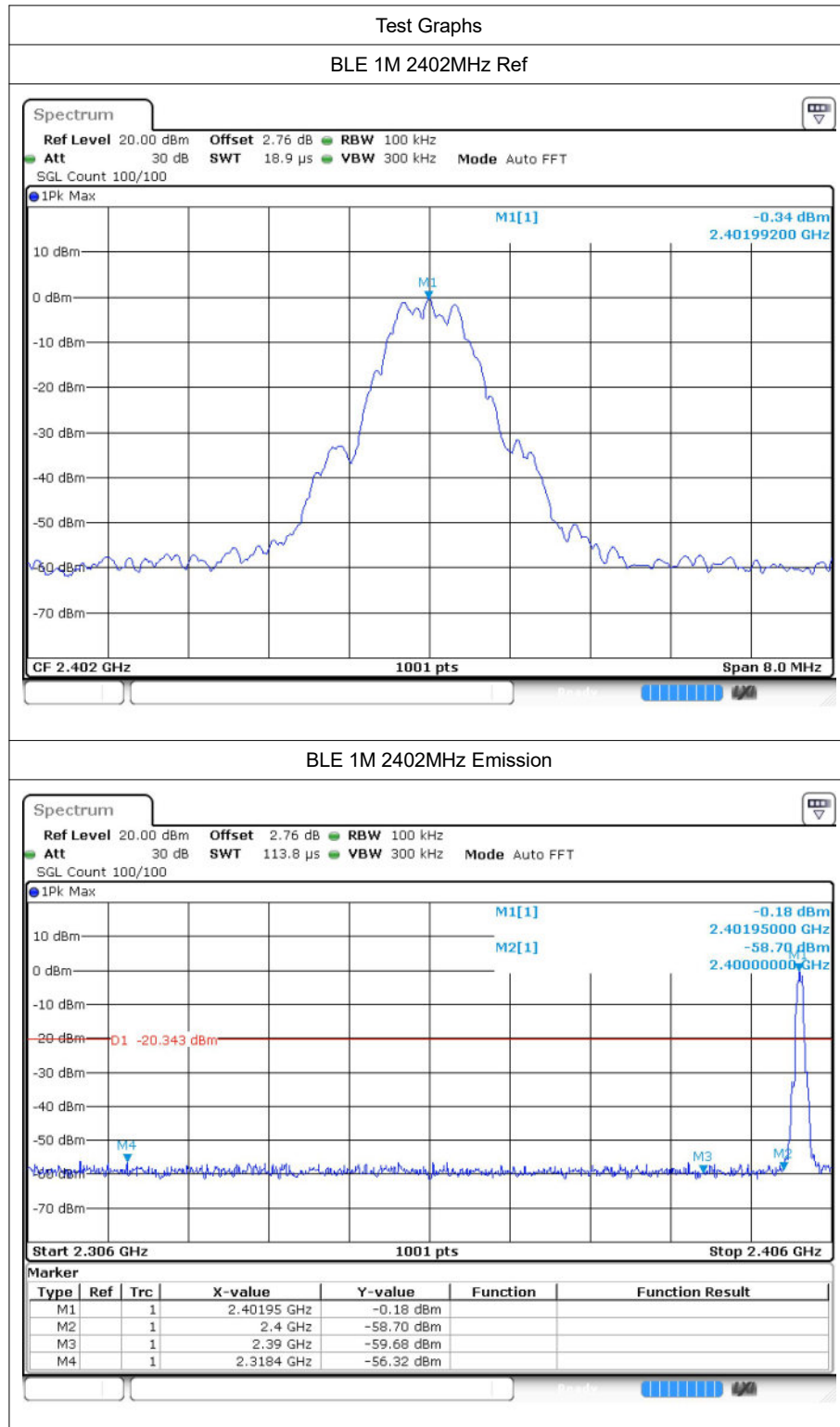


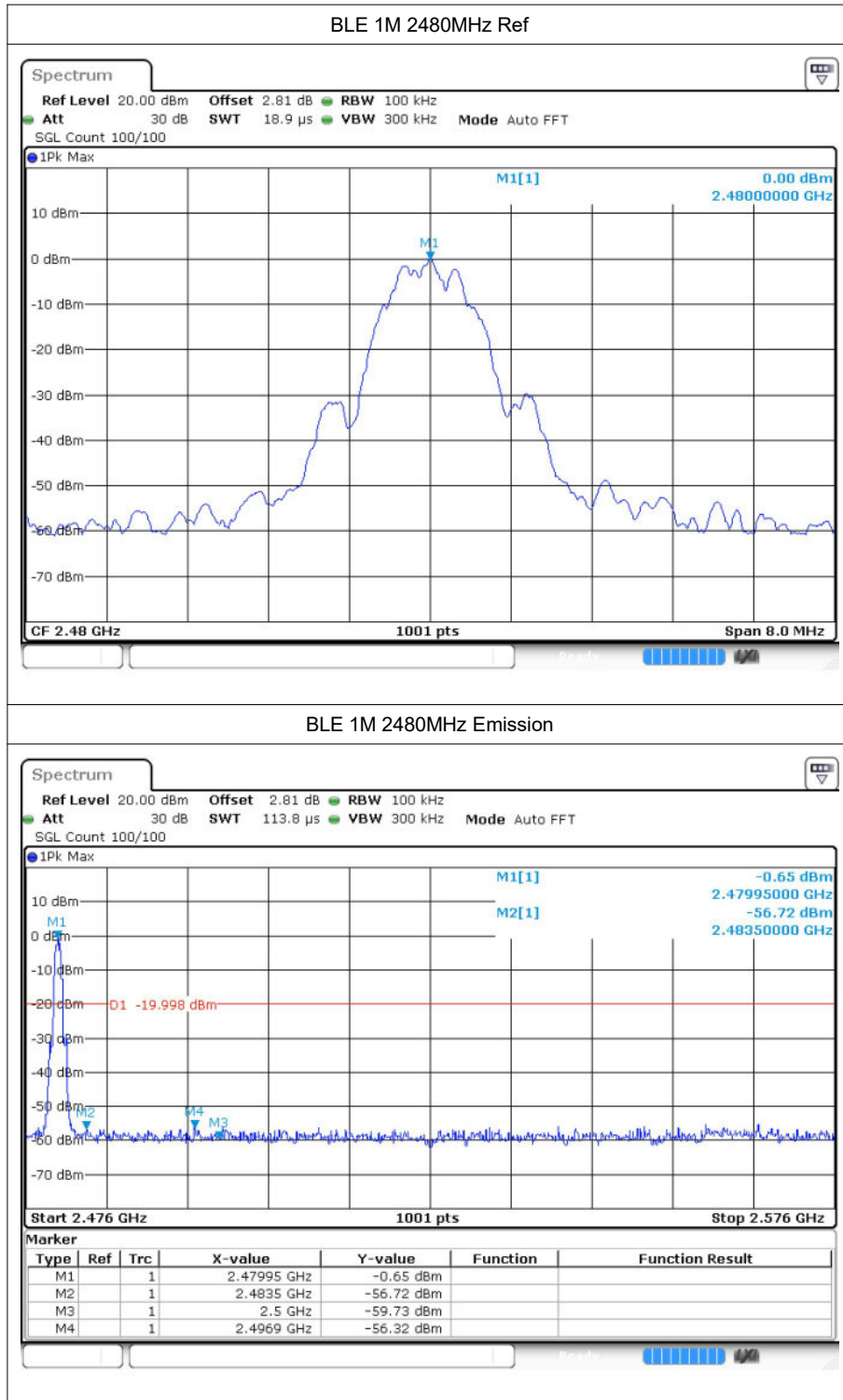
5 Band Edge

5.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-55.97	-20	Pass
BLE 1M	2480	-56.31	-20	Pass

5.2 Test Graphs





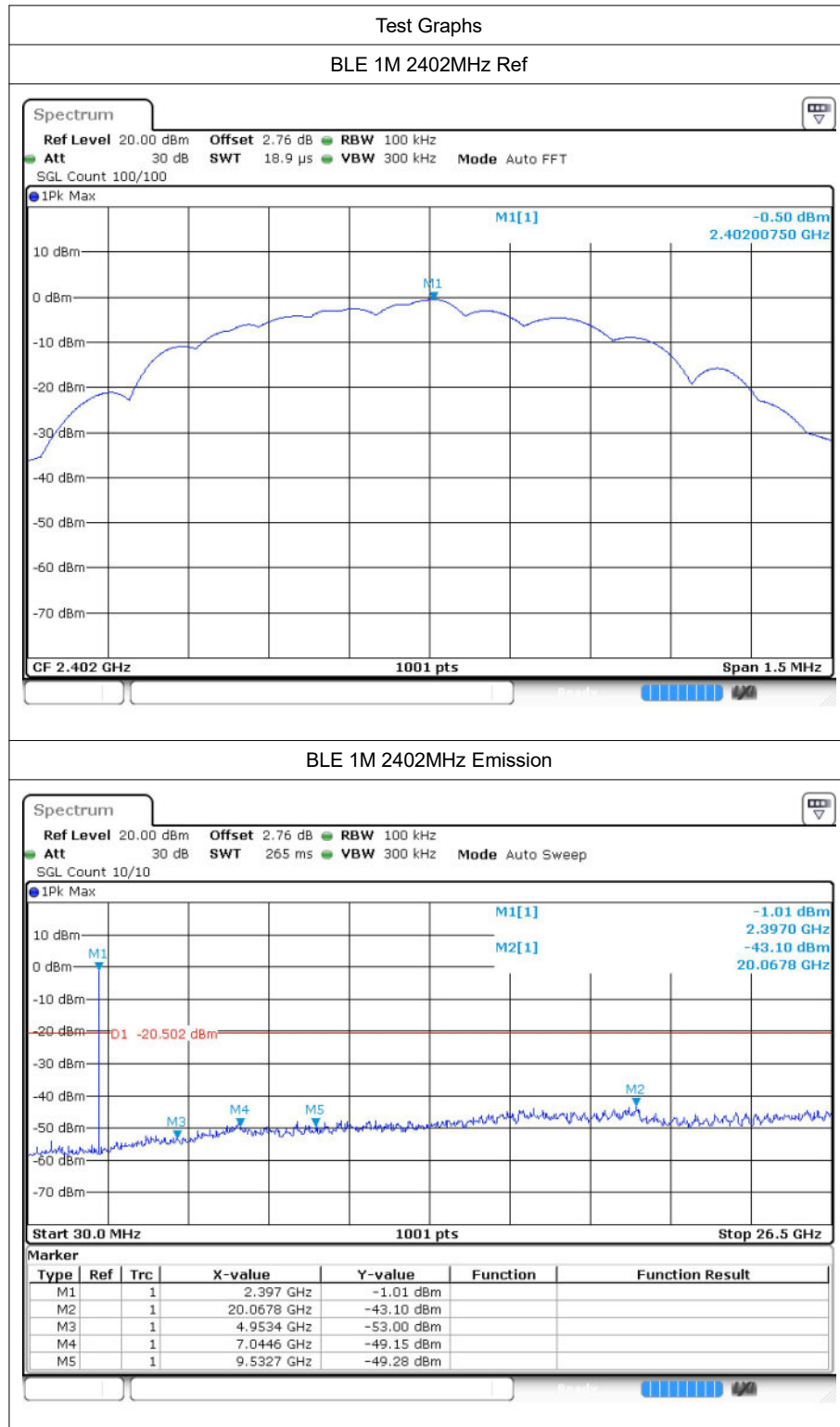


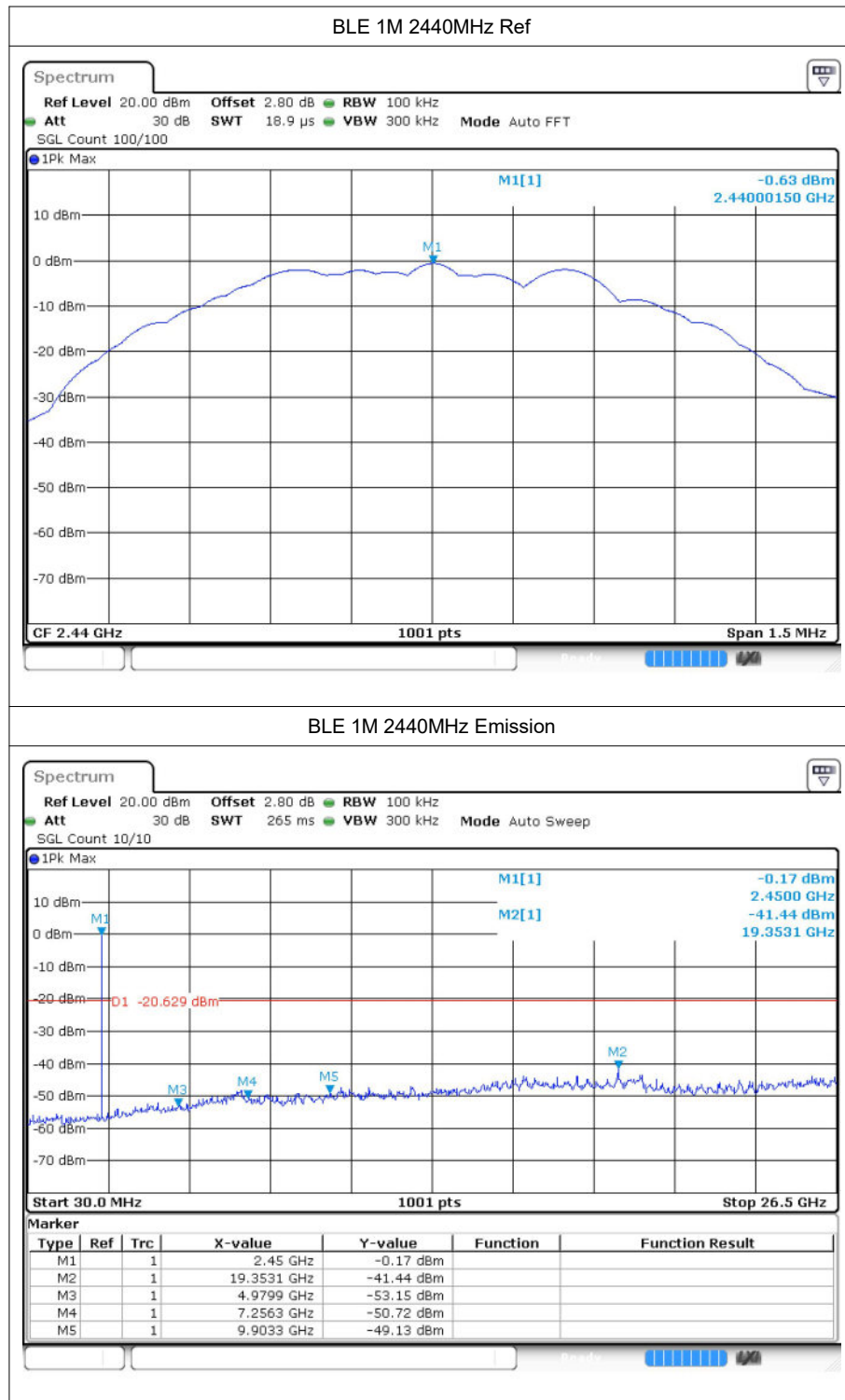
6 Conducted RF Spurious Emission

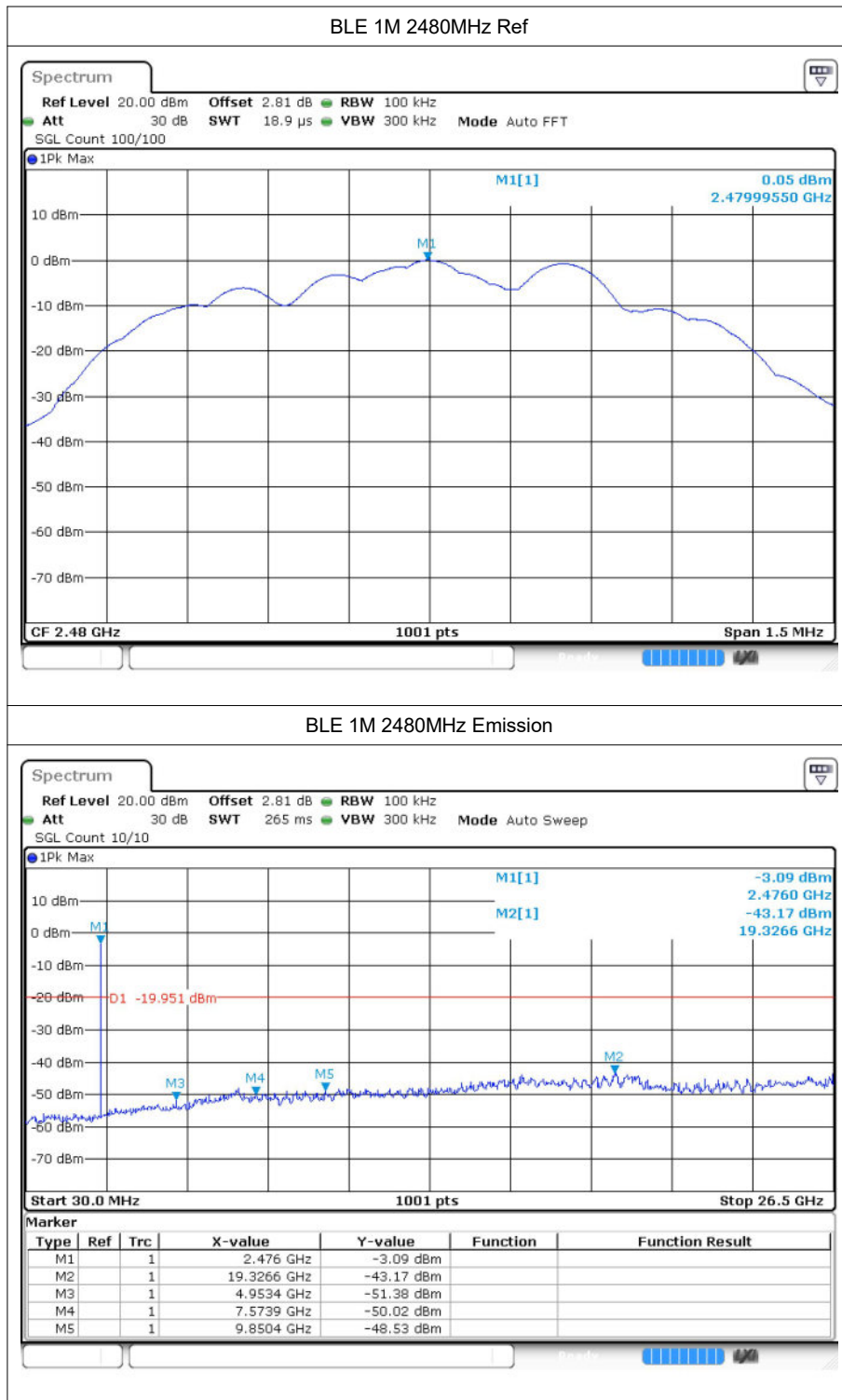
6.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-42.6	-20	Pass
BLE 1M	2440	-40.81	-20	Pass
BLE 1M	2480	-43.22	-20	Pass

6.2 Test Graphs







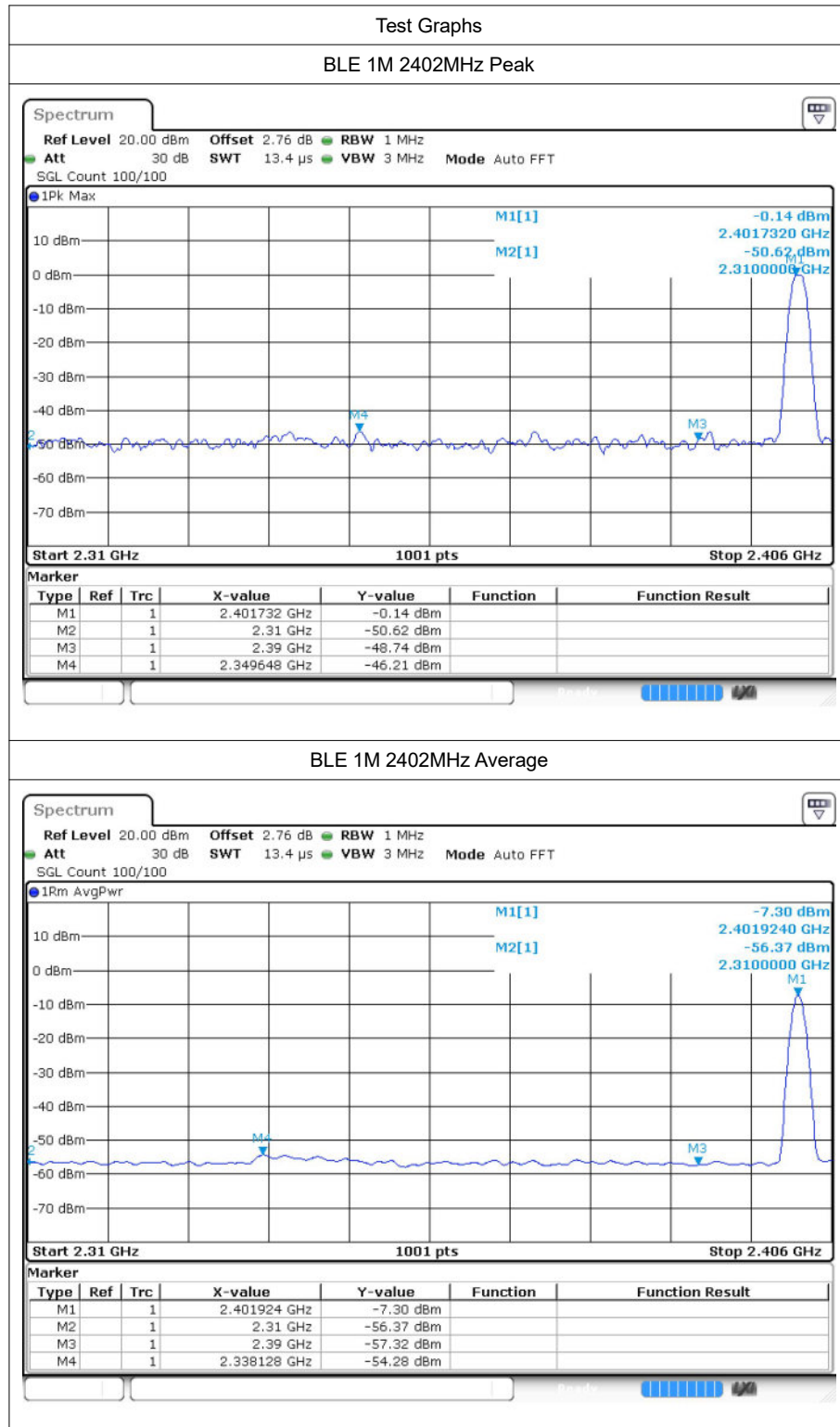


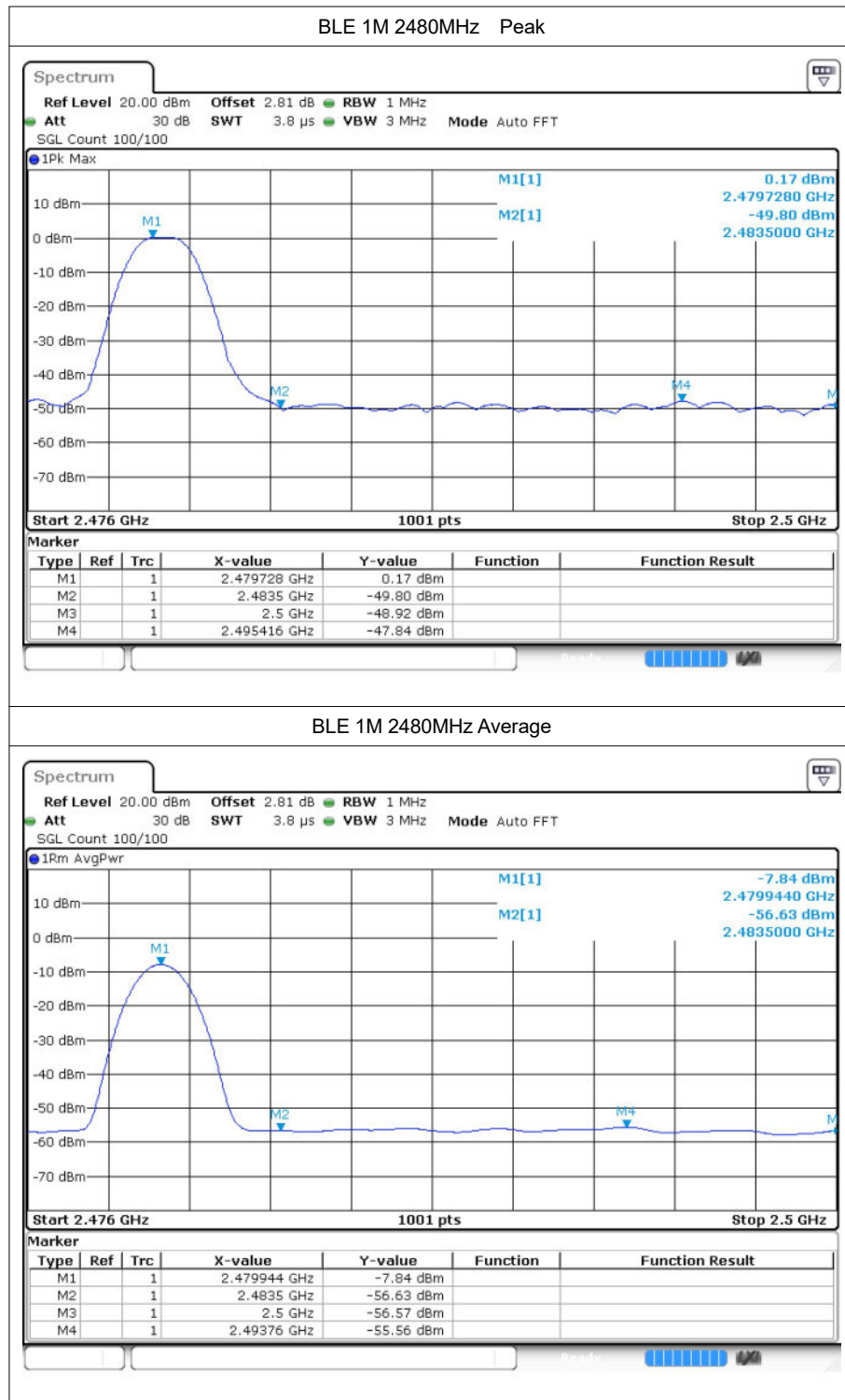
7 Restrict Band

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	-50.62	2	-	46.64	Peak	74	Pass
BLE 1M	2402	2310	-56.37	2	7.35	48.24	Average	54	Pass
BLE 1M	2402	2349.648	-46.2	2	-	51.06	Peak	74	Pass
BLE 1M	2402	2338.128	-54.28	2	7.35	50.33	Average	54	Pass
BLE 1M	2402	2390	-48.74	2	-	48.52	Peak	74	Pass
BLE 1M	2402	2390	-57.32	2	7.35	47.29	Average	54	Pass
BLE 1M	2480	2483.5	-49.8	2	-	47.46	Peak	74	Pass
BLE 1M	2480	2483.5	-56.63	2	7.35	47.98	Average	54	Pass
BLE 1M	2480	2495.416	-47.84	2	-	49.42	Peak	74	Pass
BLE 1M	2480	2493.76	-55.55	2	7.35	49.06	Average	54	Pass
BLE 1M	2480	2500	-48.92	2	-	48.34	Peak	74	Pass
BLE 1M	2480	2500	-56.57	2	7.35	48.04	Average	54	Pass

7.2 Test Graphs





---The End---