



Appendix B

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

Product Name: Smart Door Lock

Trade Mark: 迈凯仕

Test Model: D03

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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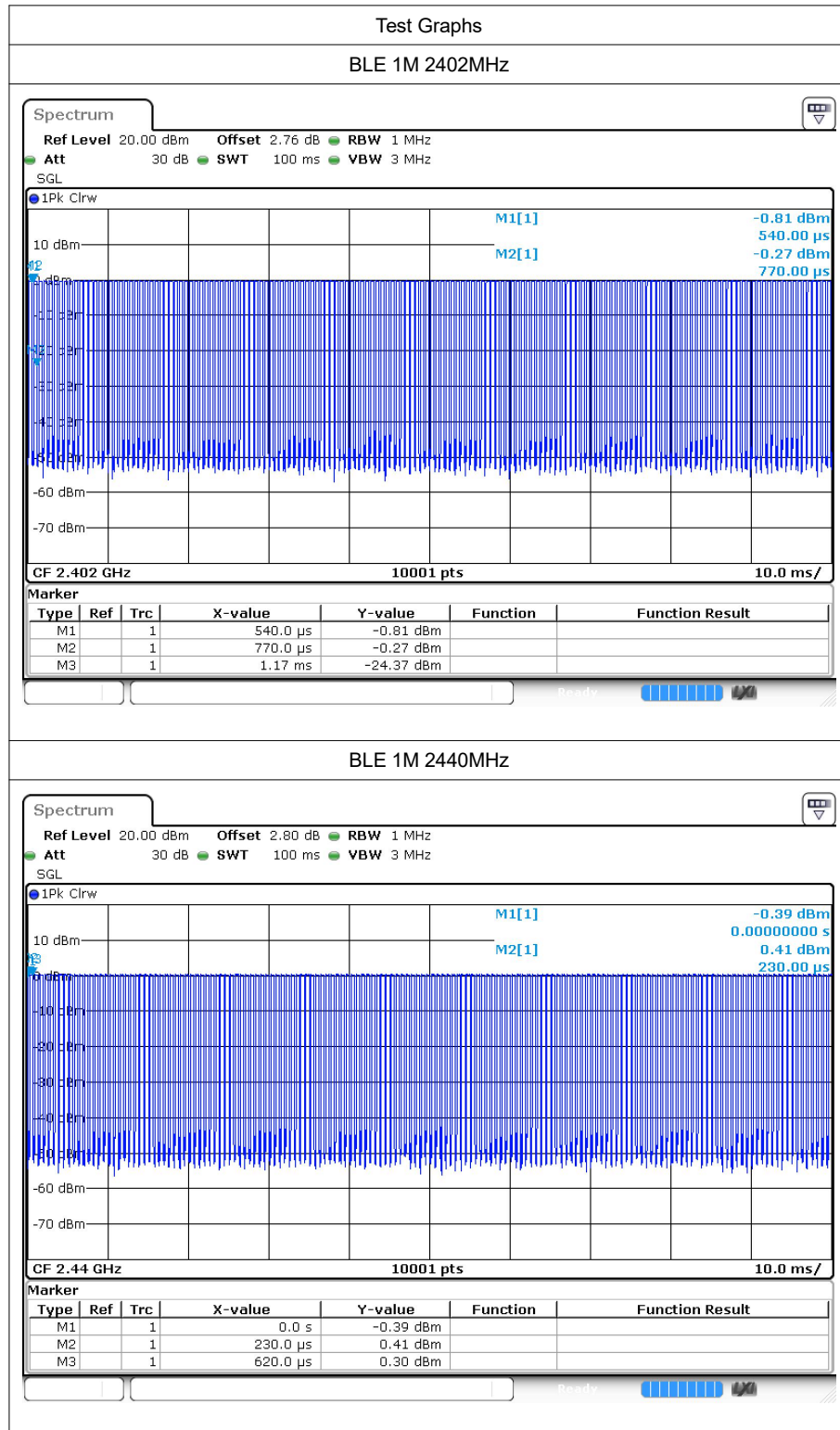


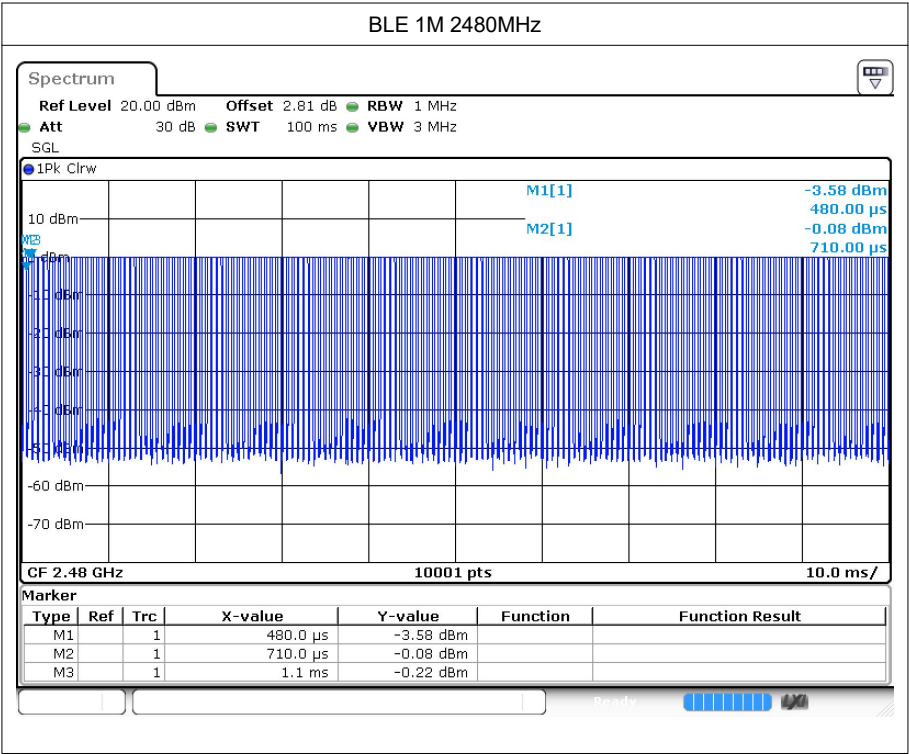
1 Duty Cycle

1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
BLE 1M	2402	64.78	1.89	2.5
BLE 1M	2440	64.51	1.9	2.56
BLE 1M	2480	64.19	1.93	2.56

1.2 Test Graphs





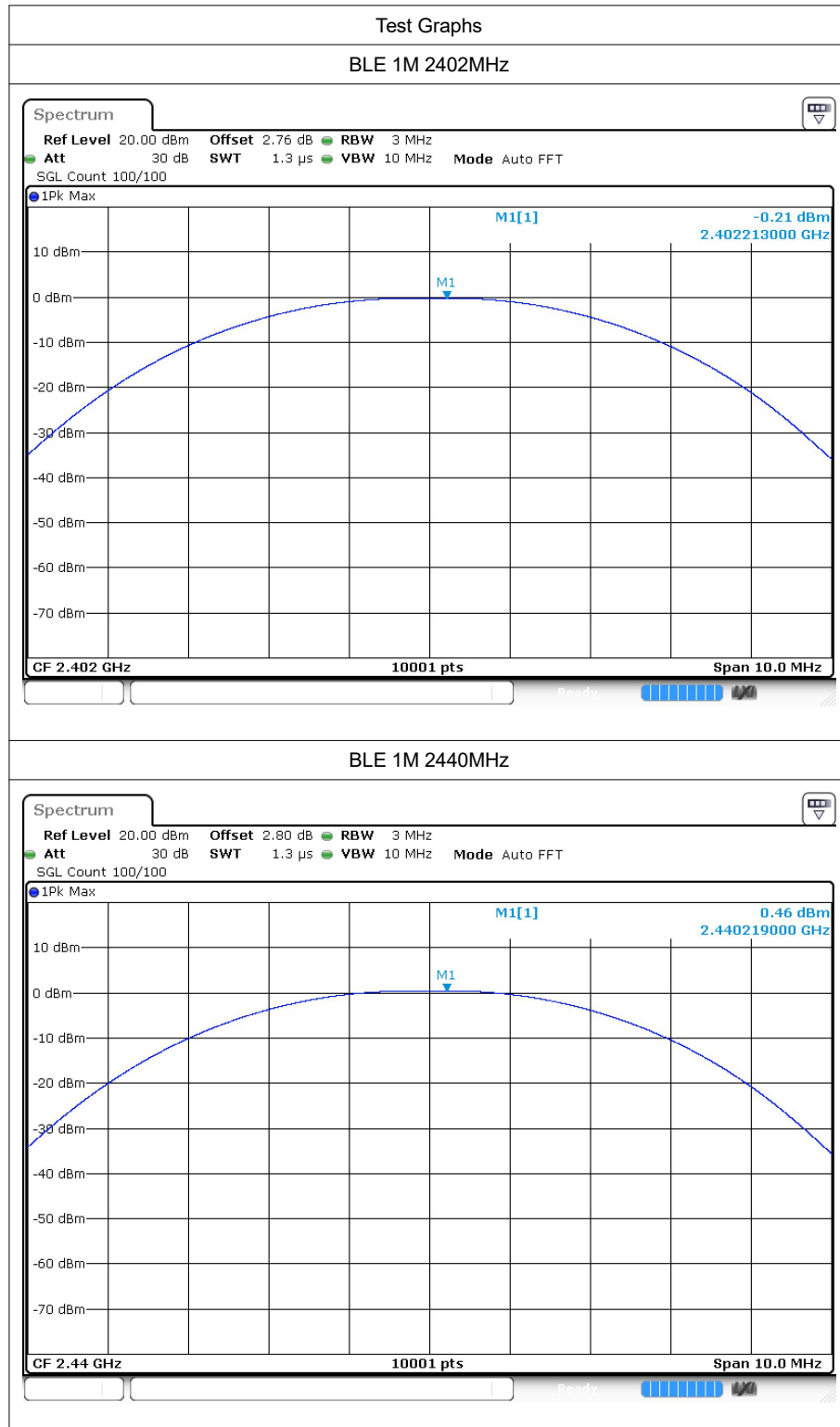


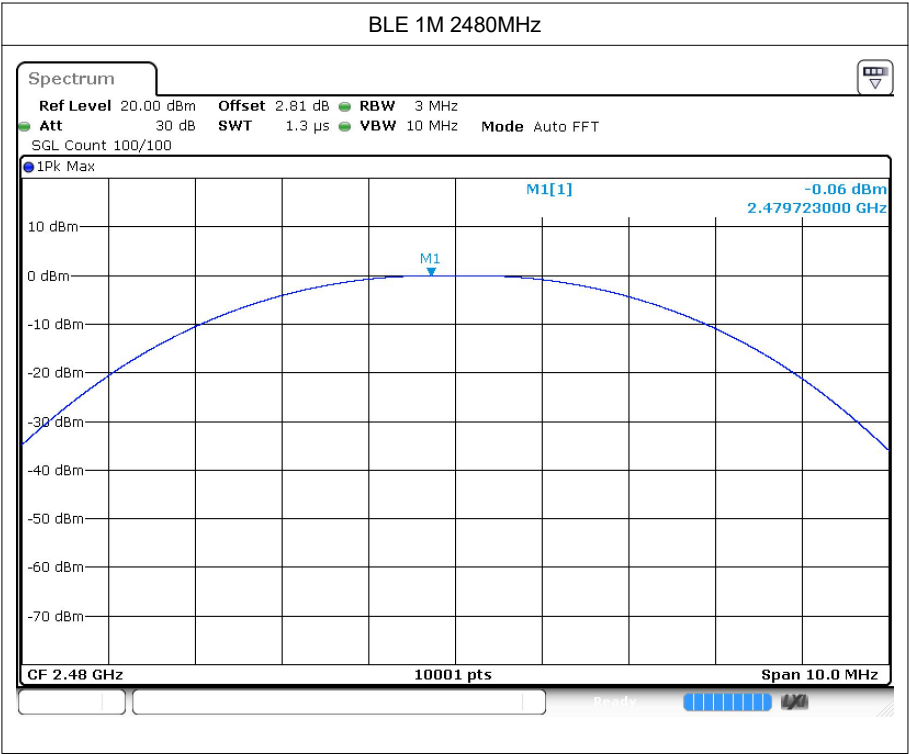
2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	-0.21	30	Pass
BLE 1M	2440	0.46	30	Pass
BLE 1M	2480	-0.06	30	Pass

2.2 Test Graphs





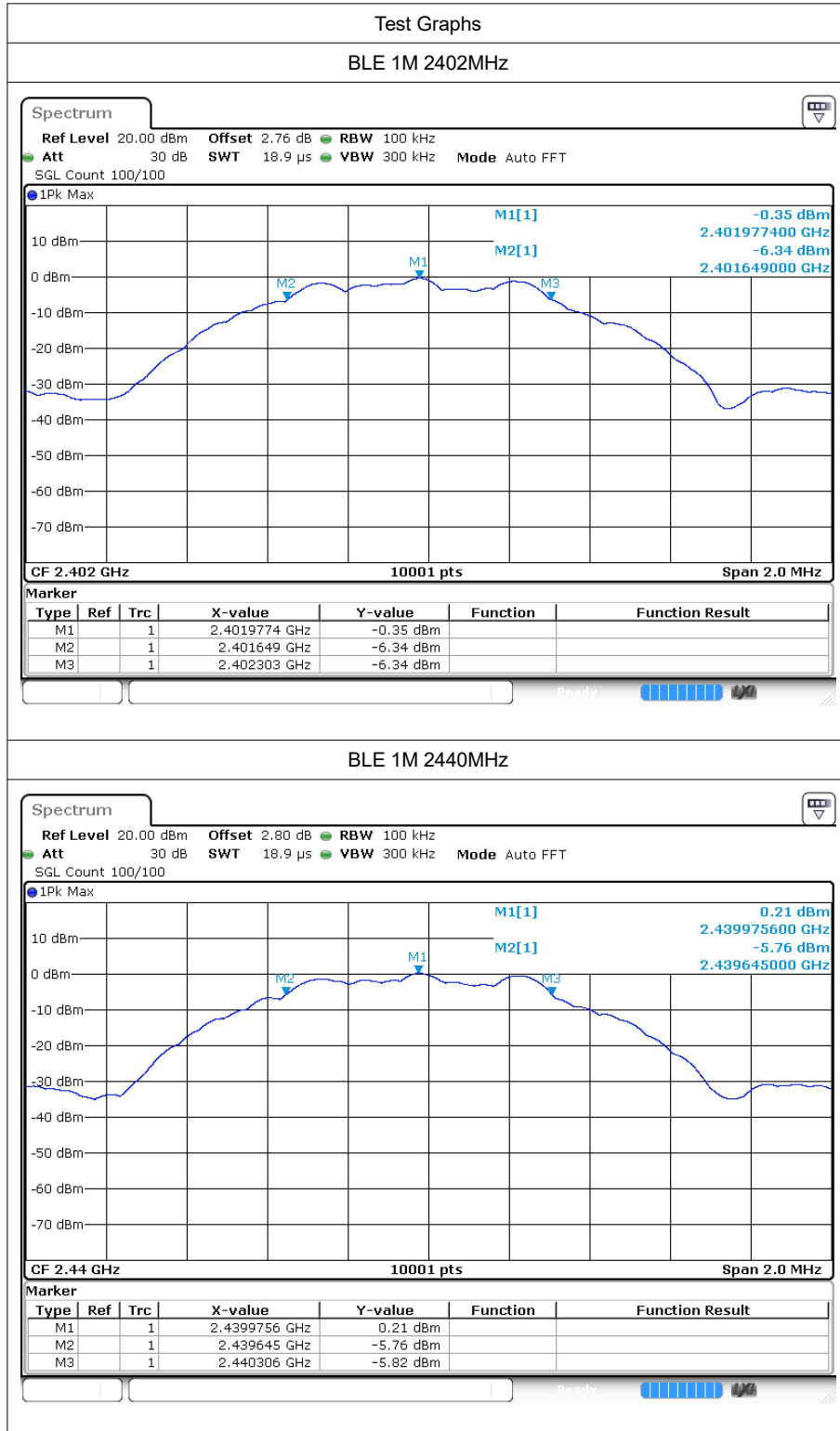


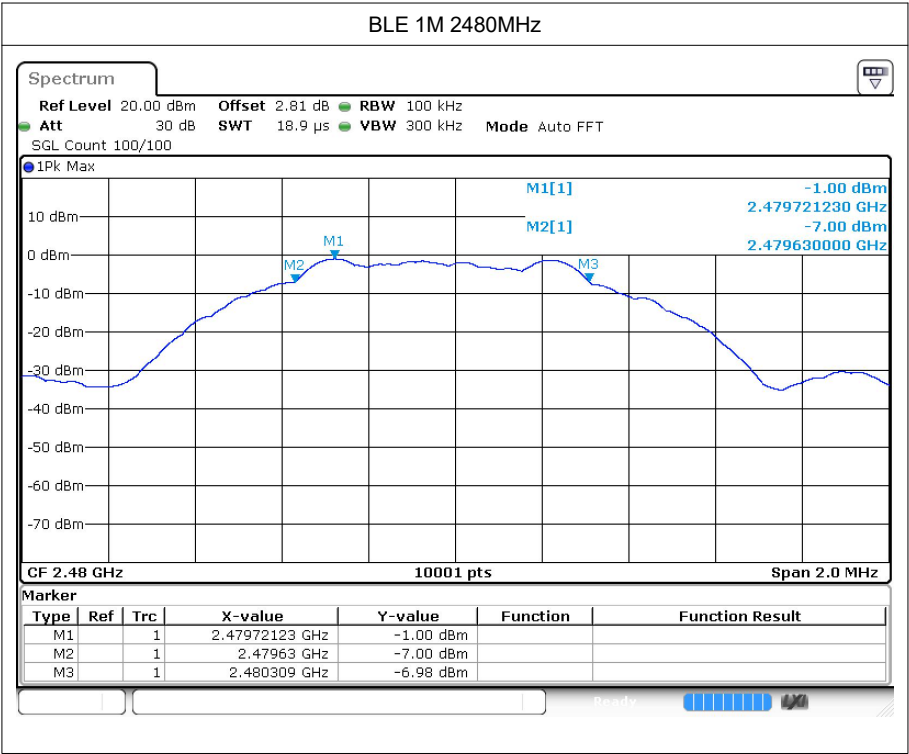
3 -6dB Bandwidth

3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.654	0.5	Pass
BLE 1M	2440	0.661	0.5	Pass
BLE 1M	2480	0.679	0.5	Pass

3.2 Test Graphs





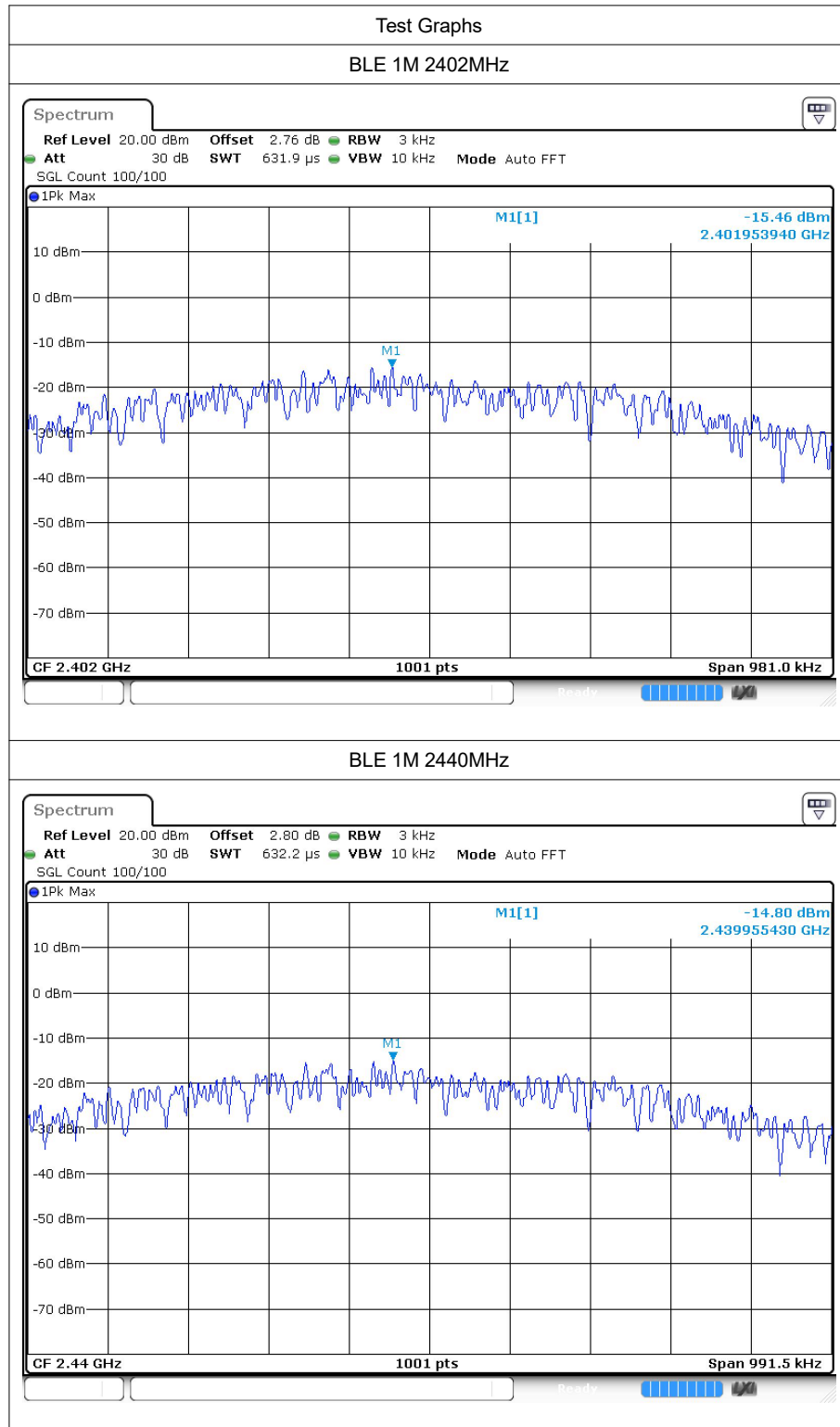


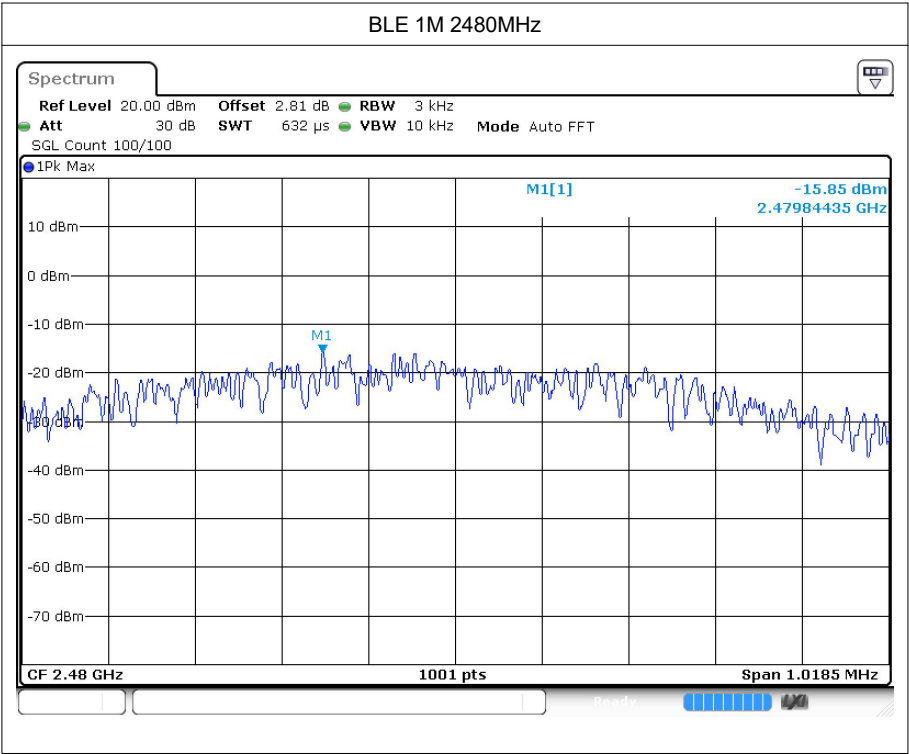
4 Maximum Power Spectral Density Level

4.1 Test Result

Mode	Frequency (MHz)	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-15.46	≤ 8	Pass
BLE 1M	2440	-14.8	≤ 8	Pass
BLE 1M	2480	-15.85	≤ 8	Pass

4.2 Test Graphs





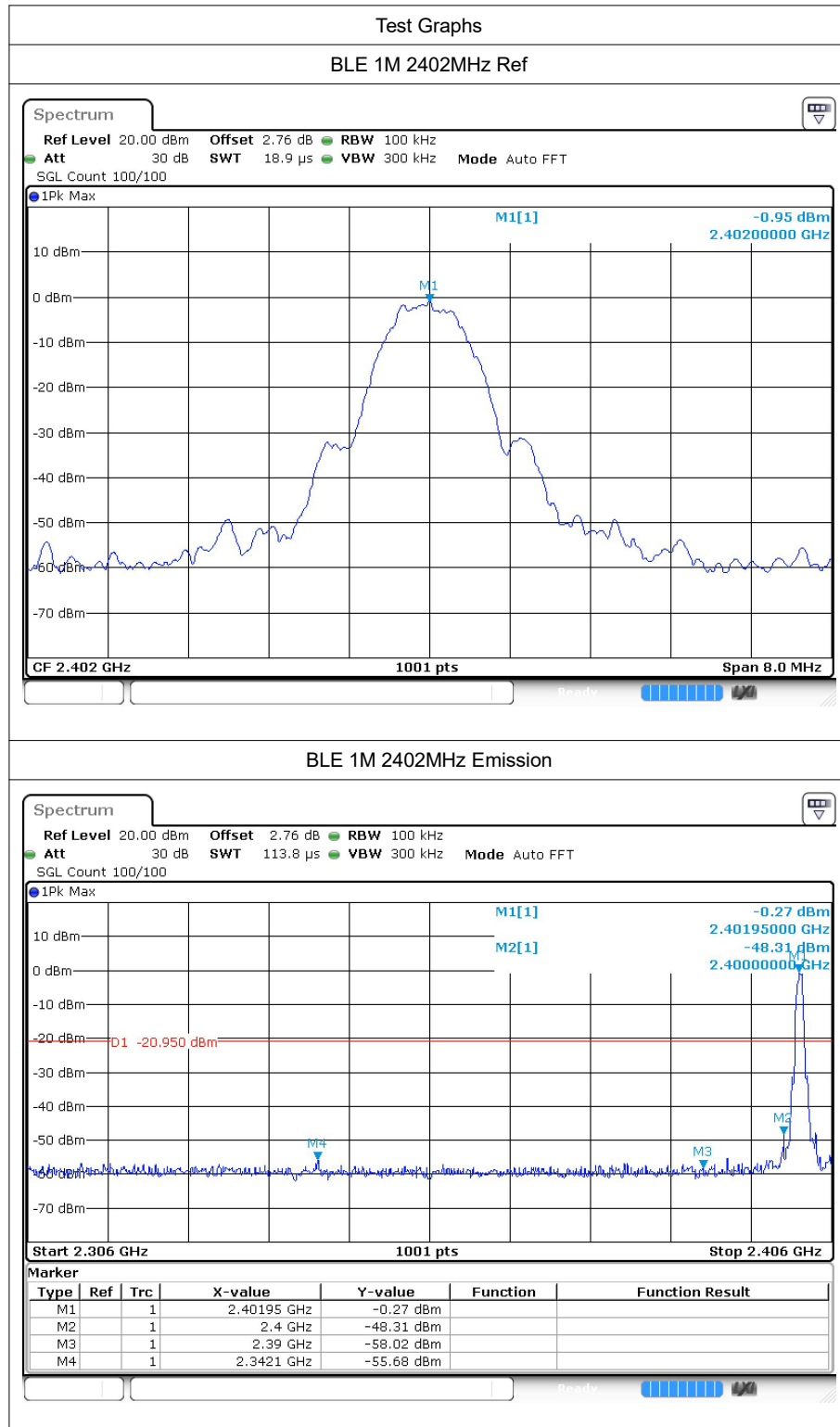


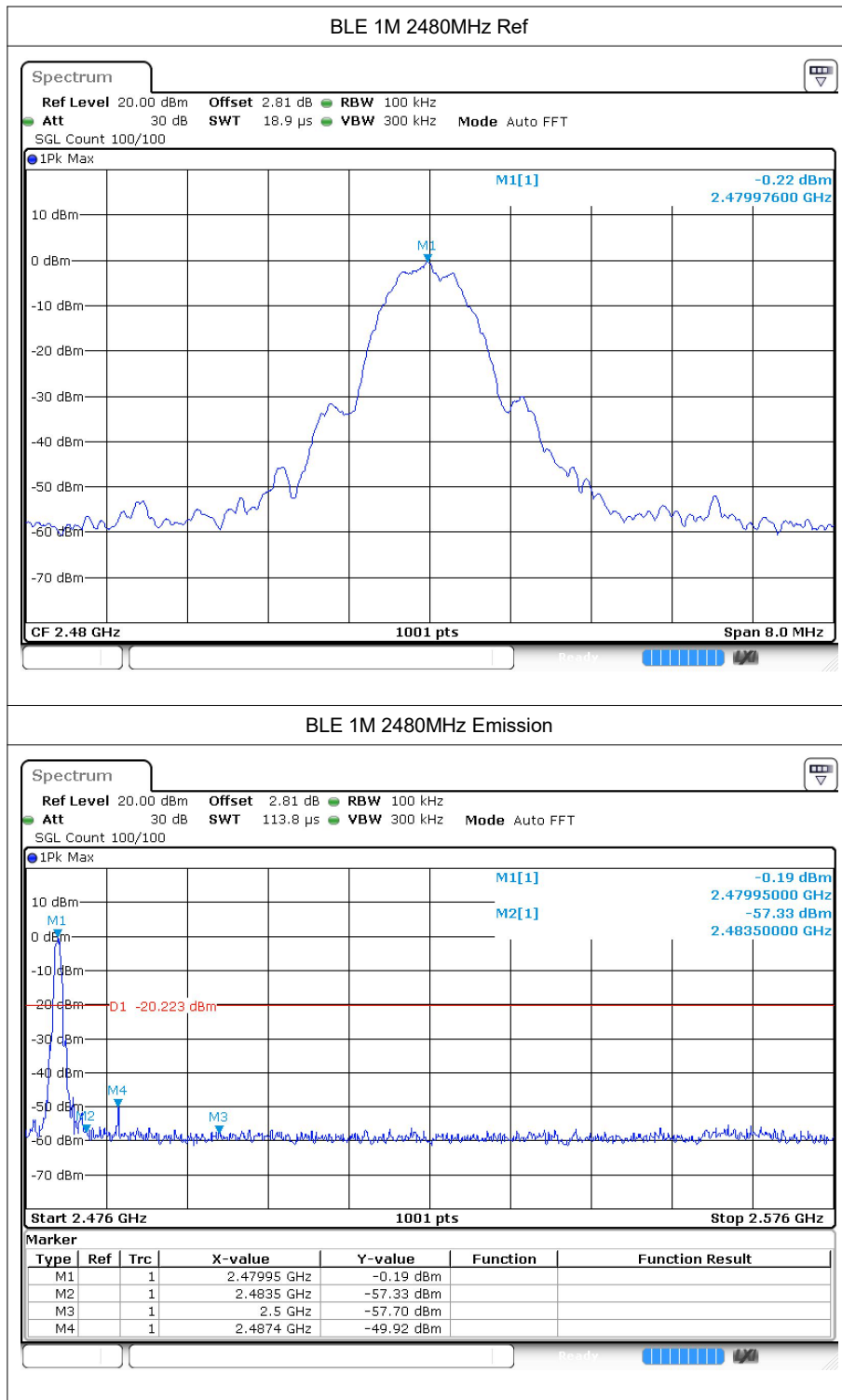
5 Band Edge

5.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-54.73	-20	Pass
BLE 1M	2480	-49.7	-20	Pass

5.2 Test Graphs





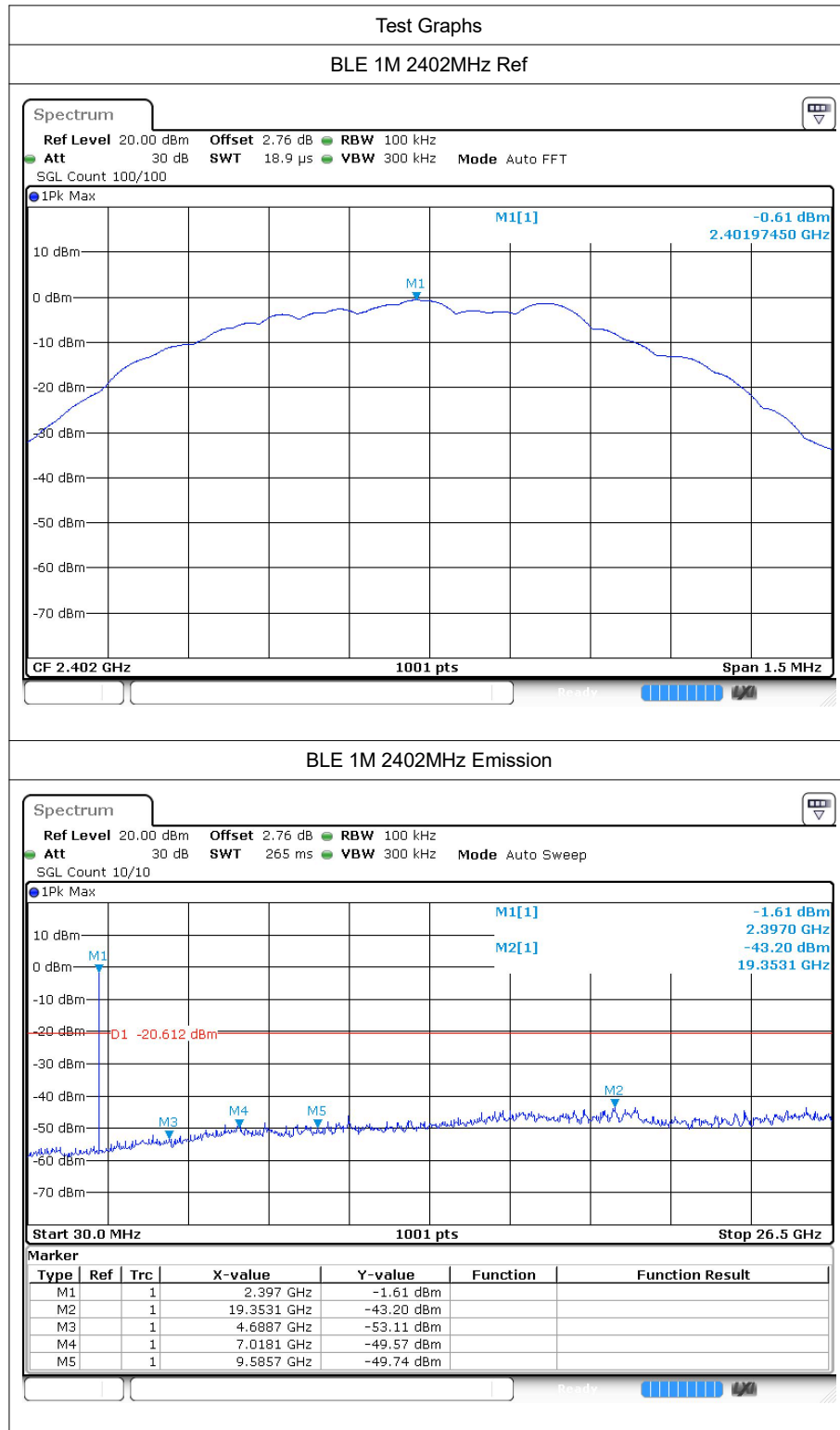


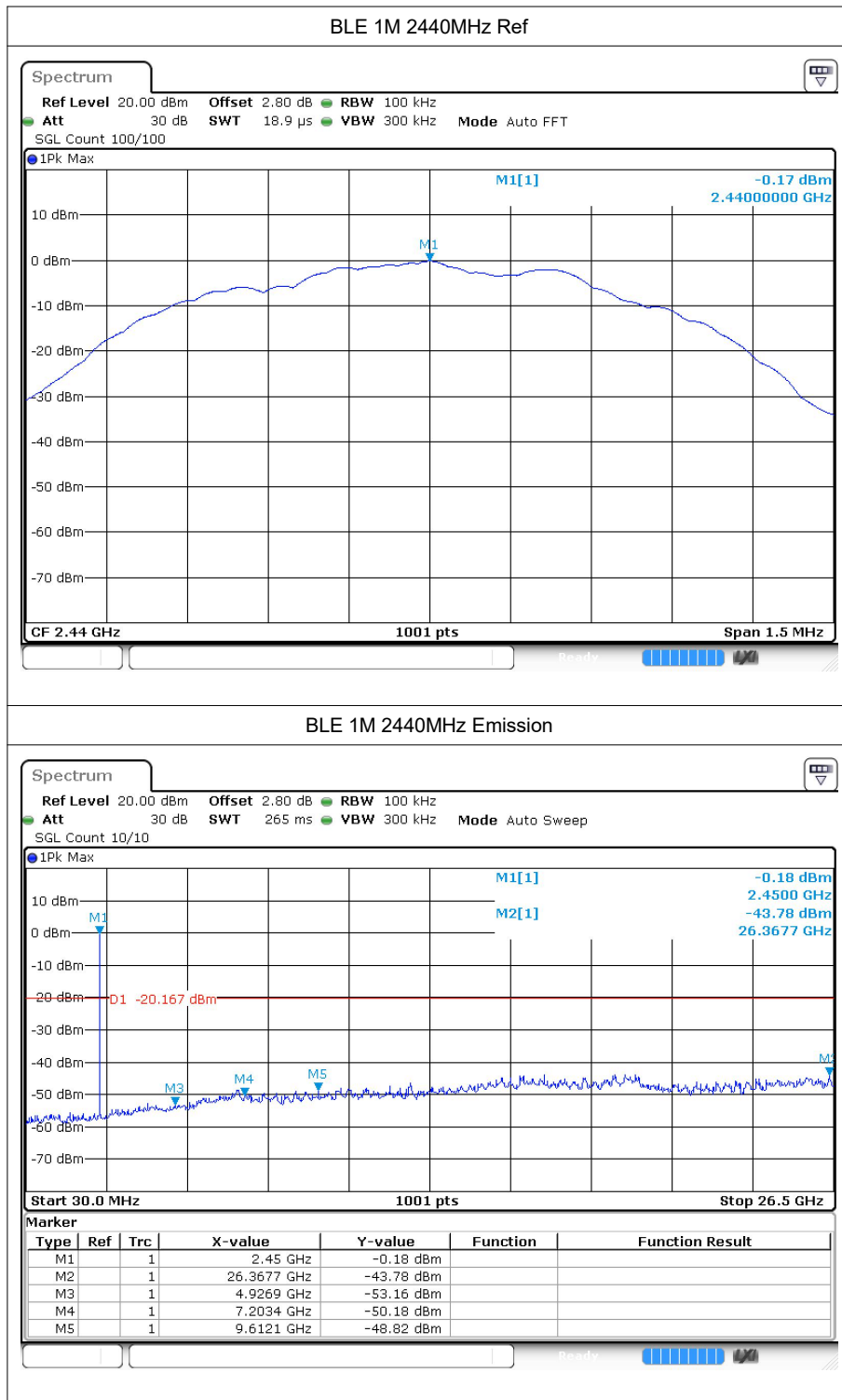
6 Conducted RF Spurious Emission

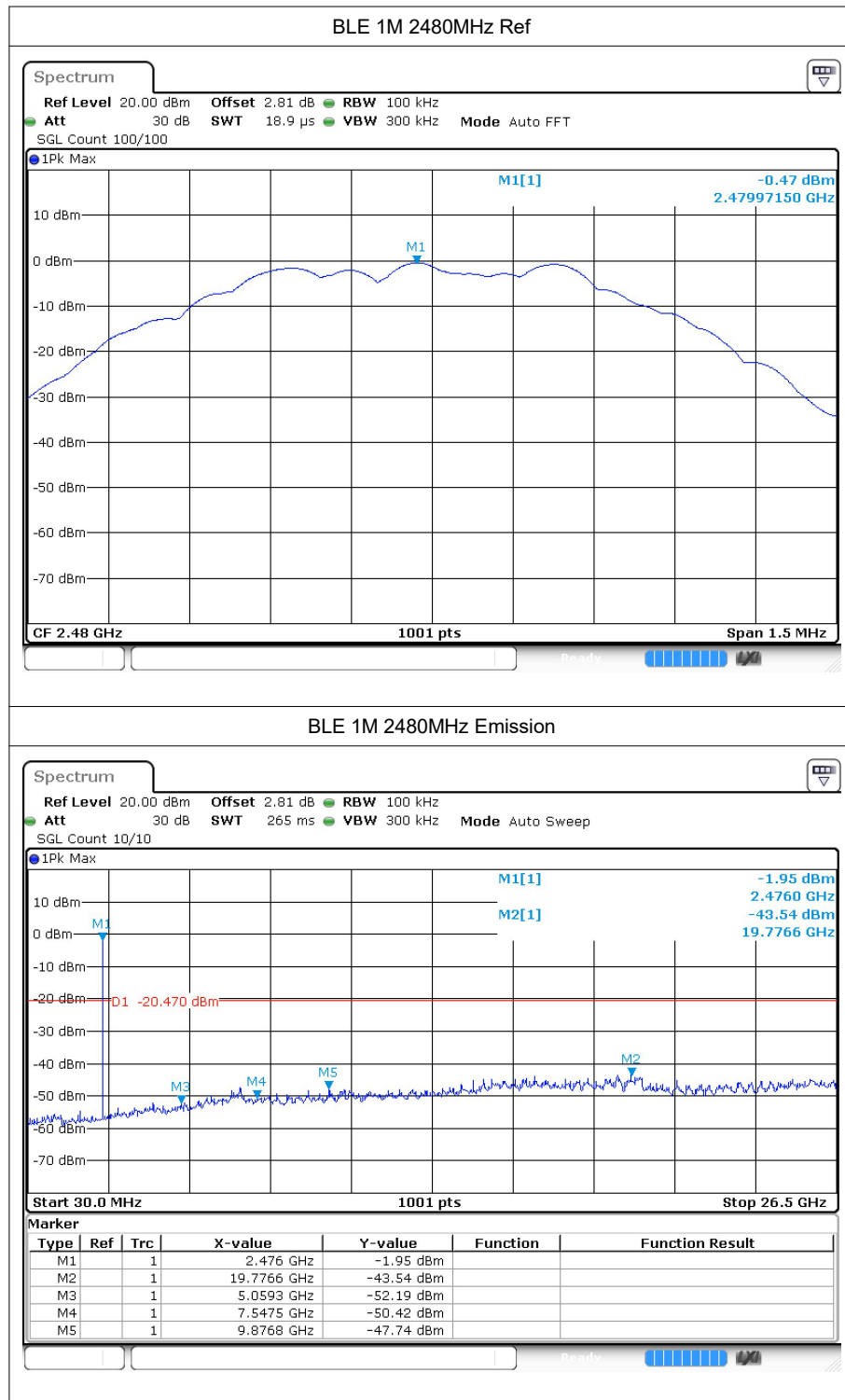
6.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-42.59	-20	Pass
BLE 1M	2440	-43.6	-20	Pass
BLE 1M	2480	-43.06	-20	Pass

6.2 Test Graphs







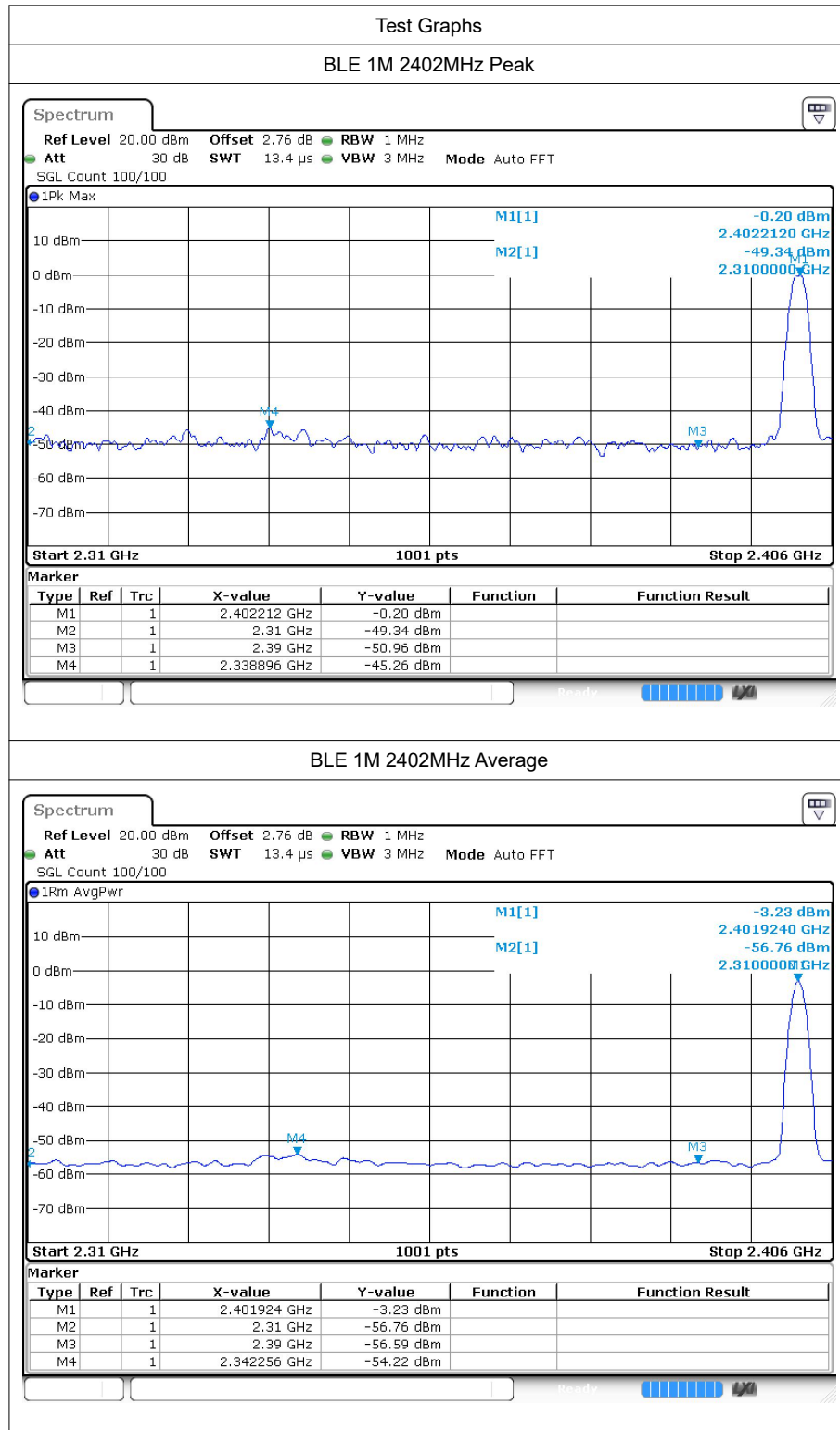


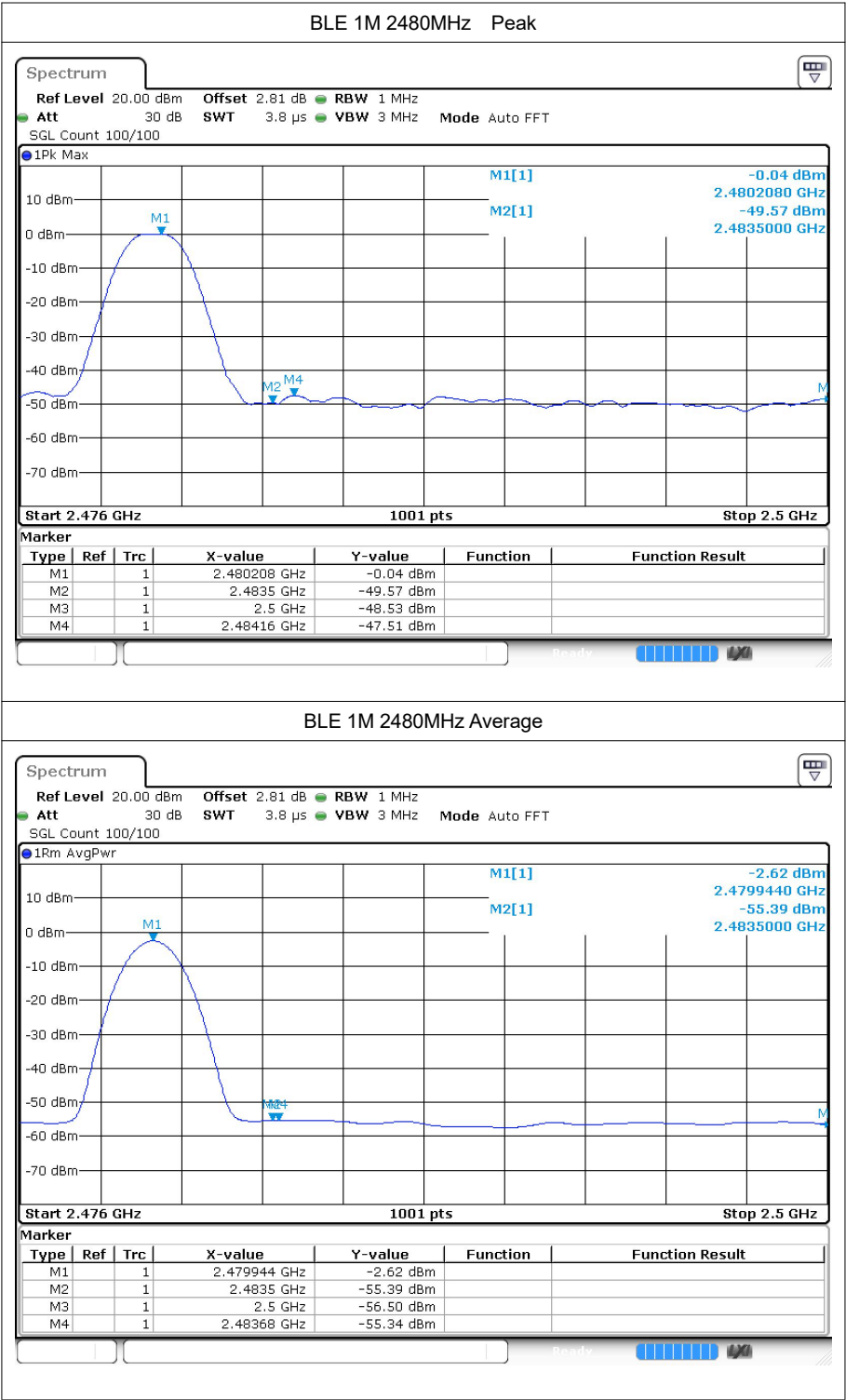
7 Restrict Band

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	-49.34	2	-	47.92	Peak	74	Pass
BLE 1M	2402	2310	-56.76	2	1.89	42.39	Average	54	Pass
BLE 1M	2402	2338.896	-45.25	2	-	52.01	Peak	74	Pass
BLE 1M	2402	2342.256	-54.21	2	1.89	44.94	Average	54	Pass
BLE 1M	2402	2390	-50.96	2	-	46.3	Peak	74	Pass
BLE 1M	2402	2390	-56.59	2	1.89	42.56	Average	54	Pass
BLE 1M	2480	2483.5	-49.57	2	-	47.69	Peak	74	Pass
BLE 1M	2480	2483.5	-55.39	2	1.93	43.8	Average	54	Pass
BLE 1M	2480	2484.16	-47.5	2	-	49.76	Peak	74	Pass
BLE 1M	2480	2483.68	-55.33	2	1.93	43.86	Average	54	Pass
BLE 1M	2480	2500	-48.53	2	-	48.73	Peak	74	Pass
BLE 1M	2480	2500	-56.5	2	1.93	42.69	Average	54	Pass

7.2 Test Graphs





---The End---