



Appendix B

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

Product Name: Smart Electronic Blackboard

Trade Mark: INDOTA

Test Model: IN-TVH4K

Environmental Conditions

Temperature:	25.3° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



Contents

Page

COVER PAGE

1	Duty Cycle.....	3
1.1	Test Result	3
1.2	Test Graphs	4
2	Maximum Conducted Output Power	6
2.1	Test Result	6
2.2	Test Graphs	7
3	-6dB Bandwidth.....	8
3.1	Test Result	8
3.2	Test Graphs	9
4	Maximum Power Spectral Density Level.....	11
4.1	Test Result	11
4.2	Test Graphs	12
5	Band Edge	14
5.1	Test Result	14
5.2	Test Graphs	15
6	Conducted RF Spurious Emission	17
6.1	Test Result	17
6.2	Test Graphs	18
7	Restrict Band	21
7.1	Test Result	21
7.2	Test Graphs	22

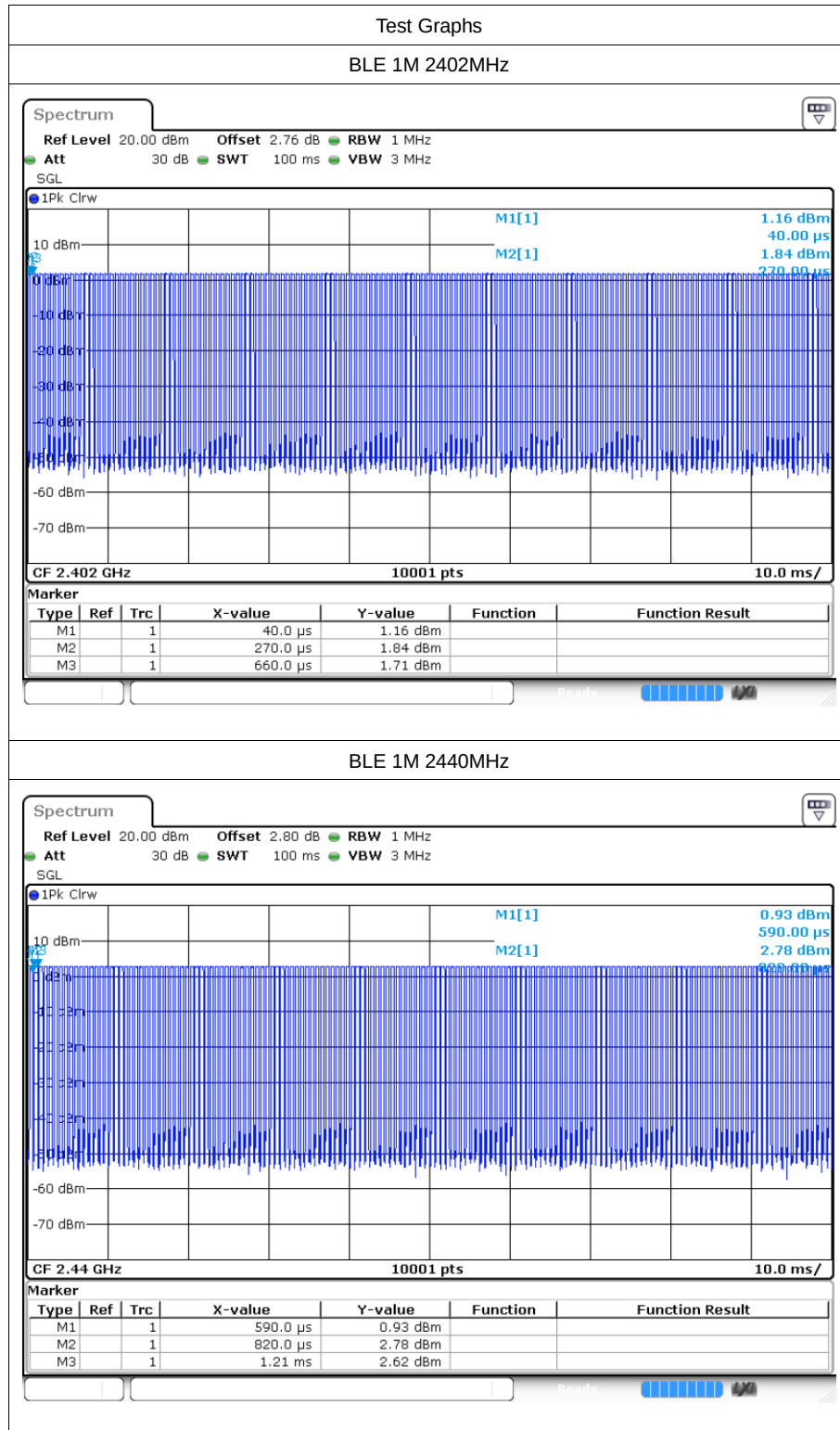


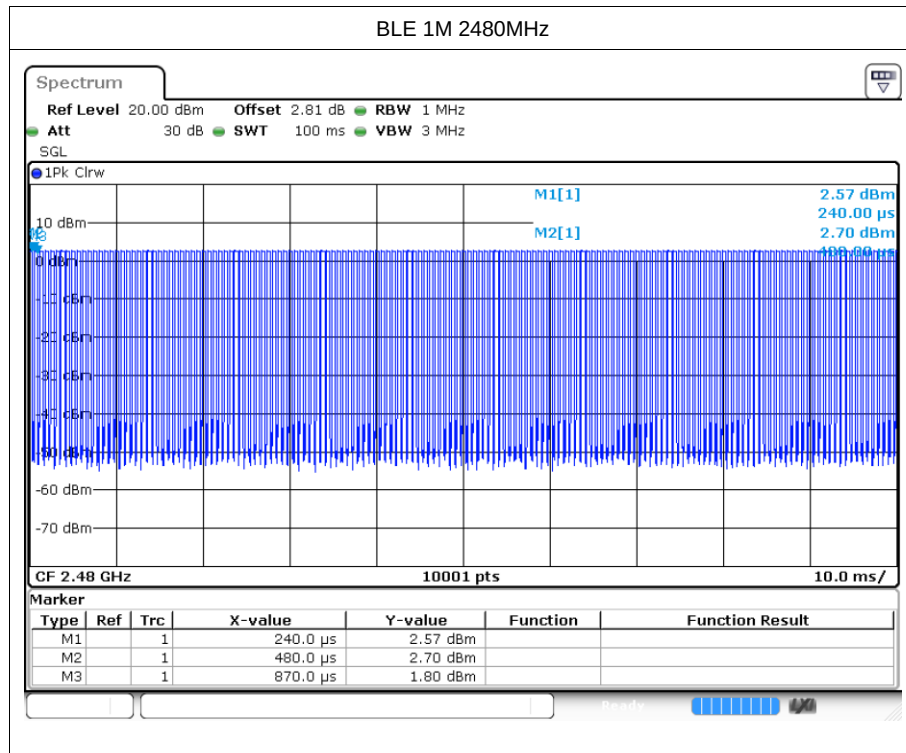
1 Duty Cycle

1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
BLE 1M	2402	64.71	2.56
BLE 1M	2440	64	2.56
BLE 1M	2480	64	2.56

1.2 Test Graphs





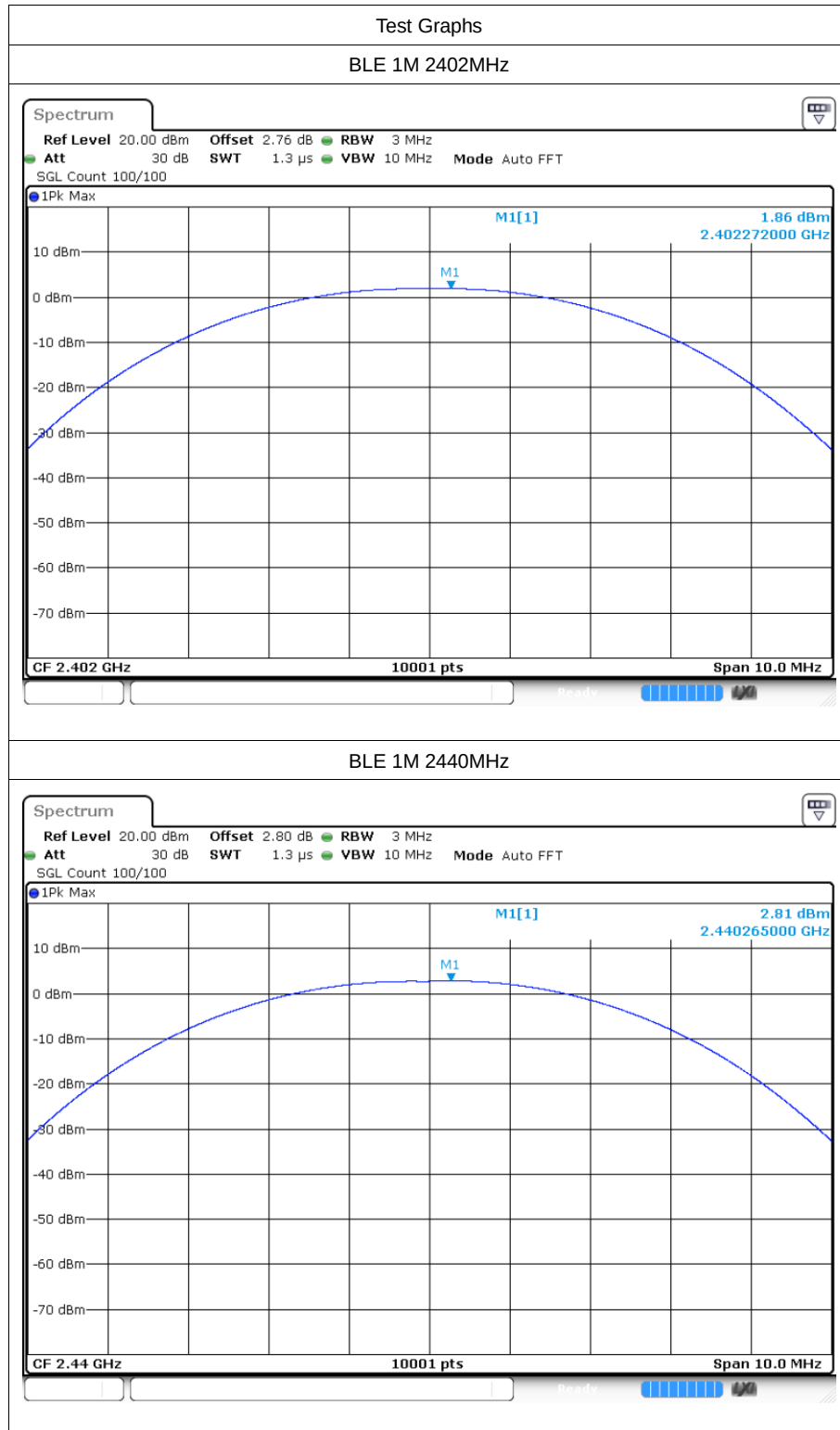


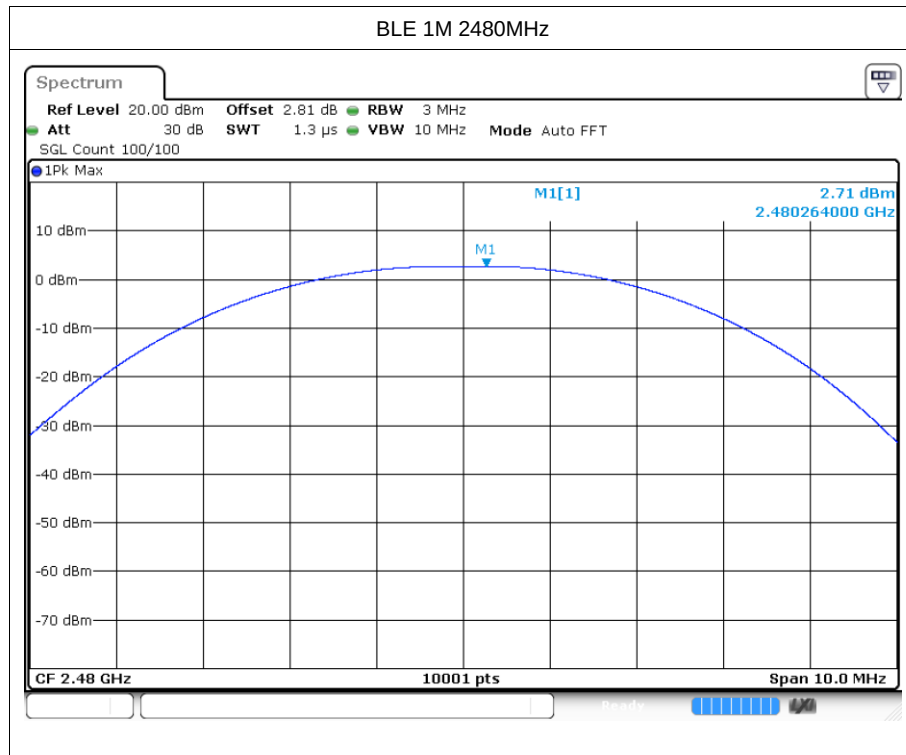
2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	1.86	30	Pass
BLE 1M	2440	2.81	30	Pass
BLE 1M	2480	2.71	30	Pass

2.2 Test Graphs

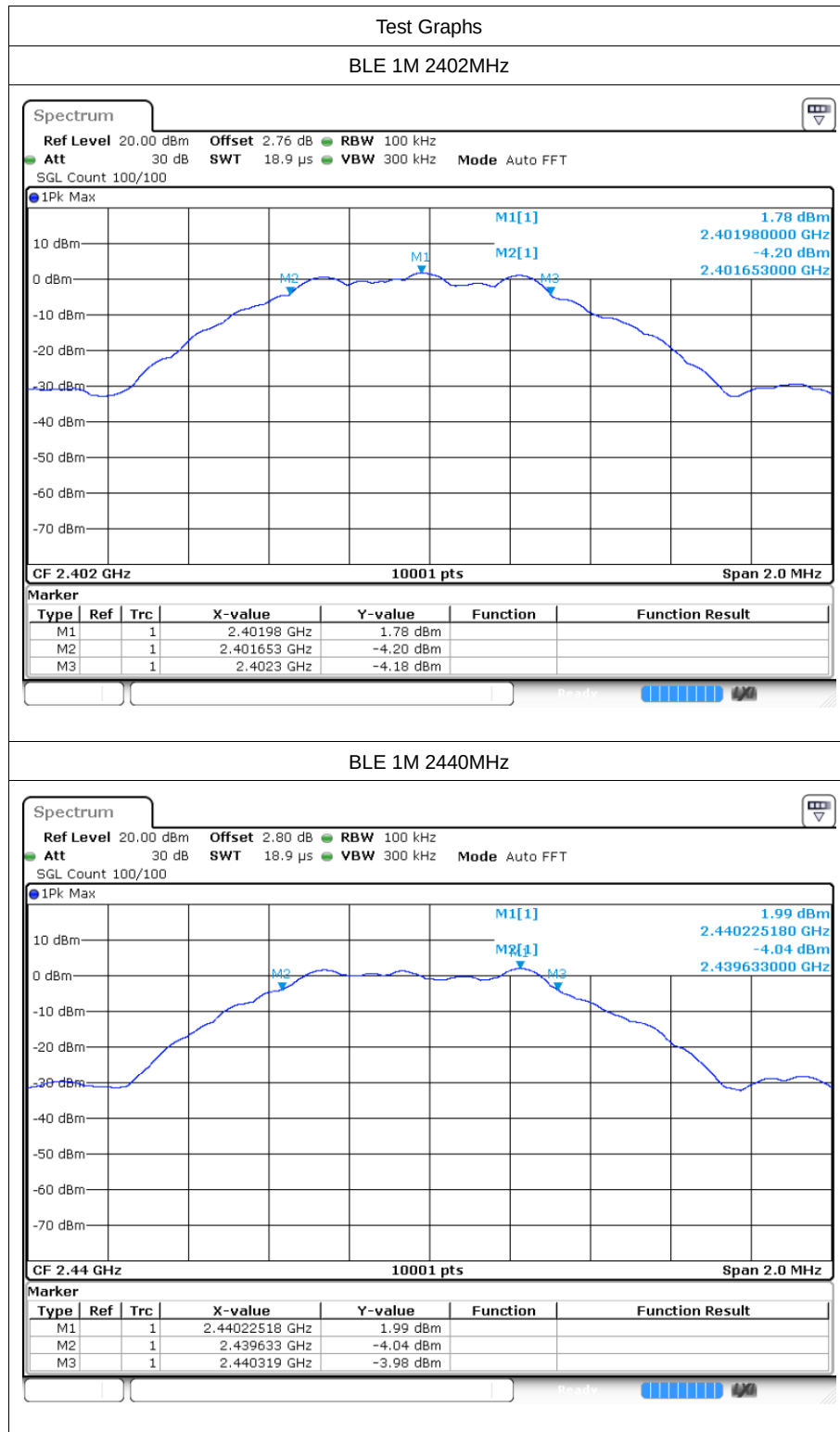


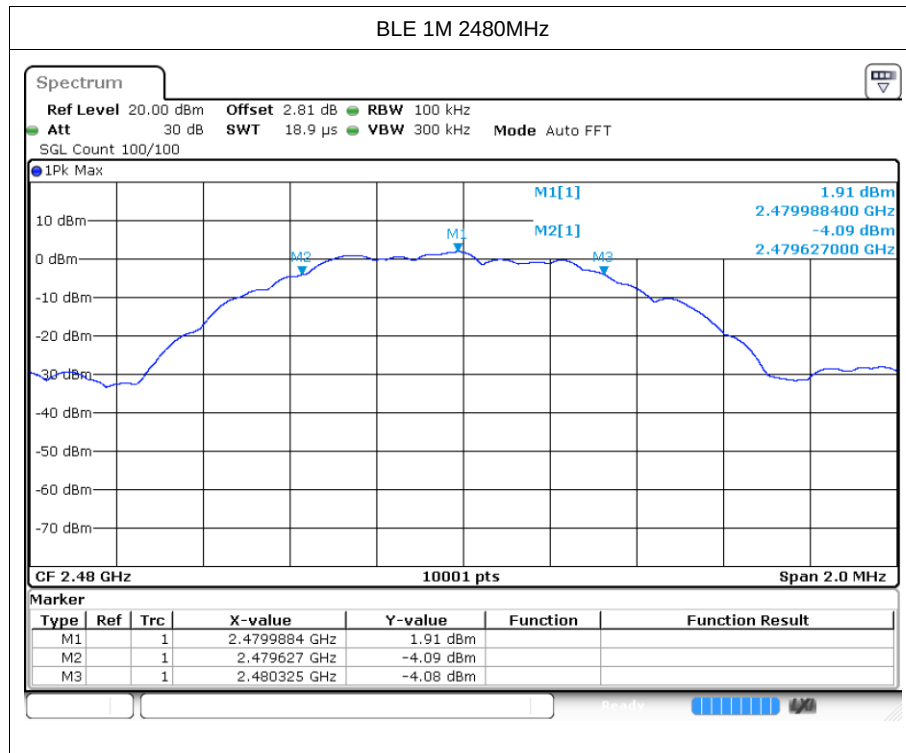


3 -6dB Bandwidth

3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.648	0.5	Pass
BLE 1M	2440	0.686	0.5	Pass
BLE 1M	2480	0.699	0.5	Pass
BLE 2M	2402	1.112	0.5	Pass
BLE 2M	2440	1.11	0.5	Pass
BLE 2M	2480	1.214	0.5	Pass





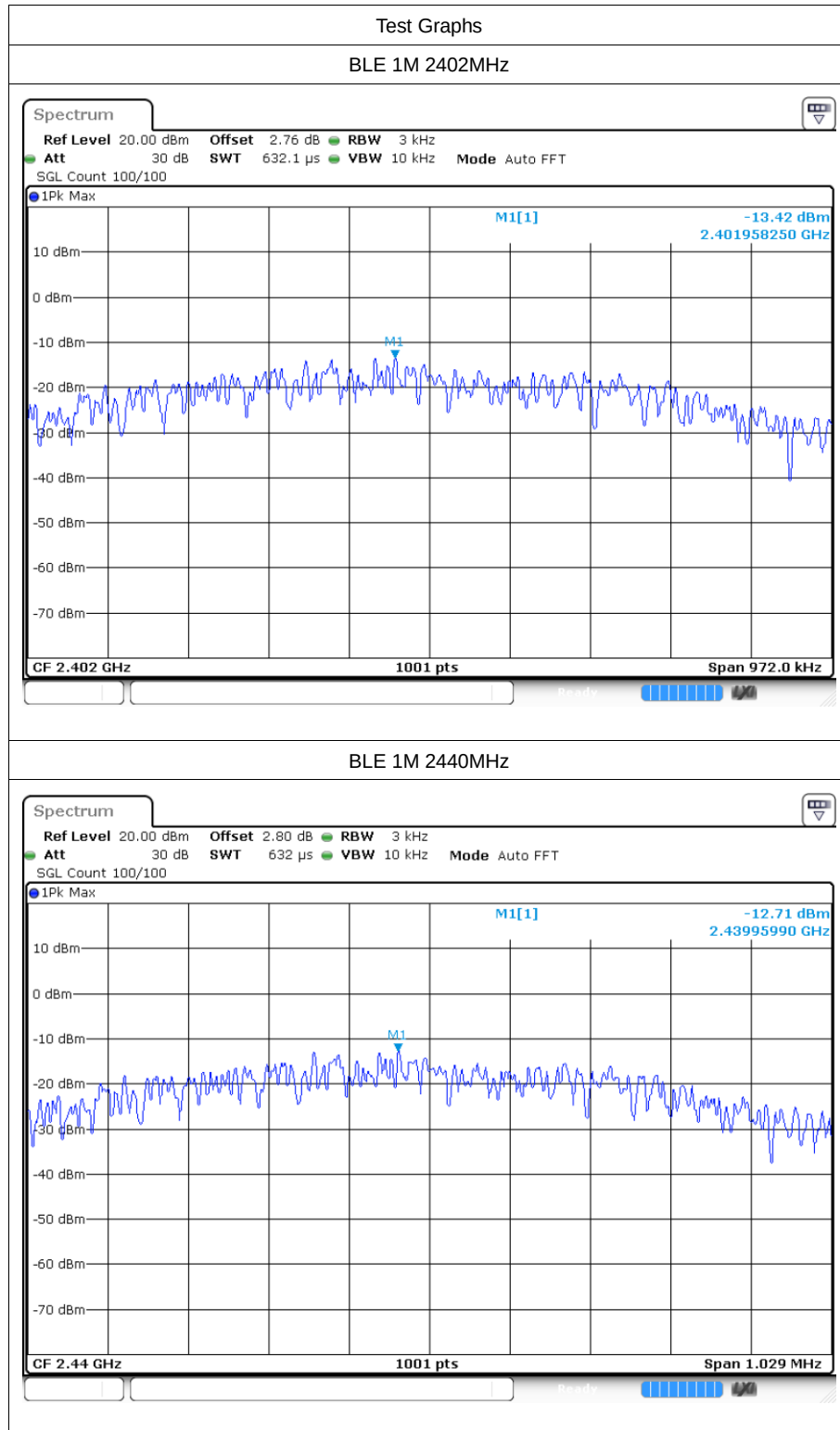


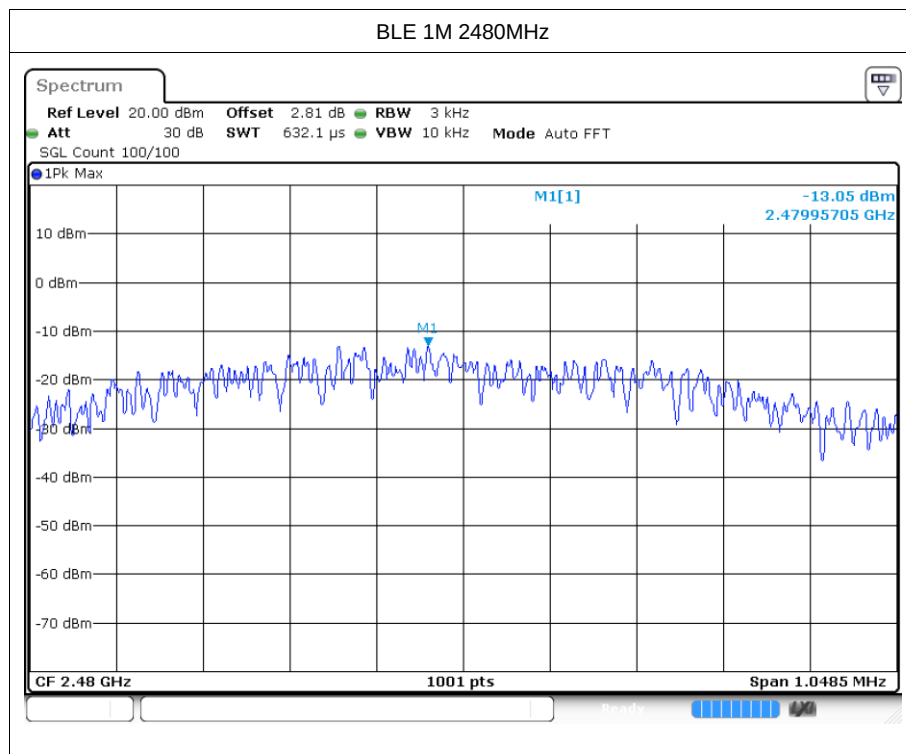
4 Maximum Power Spectral Density Level

4.1 Test Result

Mode	Frequency (MHz)	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-13.42	≤ 8	Pass
BLE 1M	2440	-12.71	≤ 8	Pass
BLE 1M	2480	-13.05	≤ 8	Pass

4.2 Test Graphs





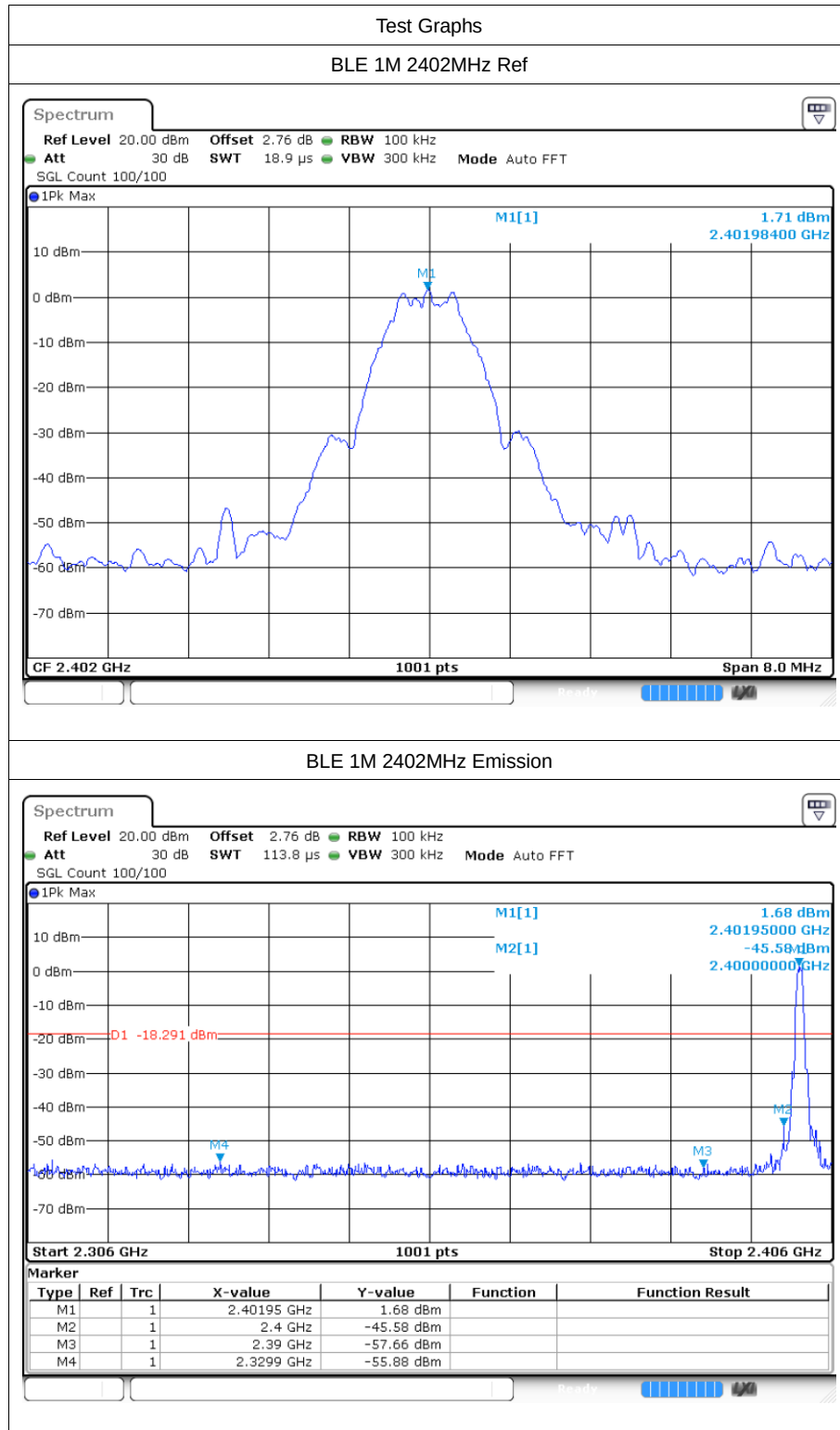


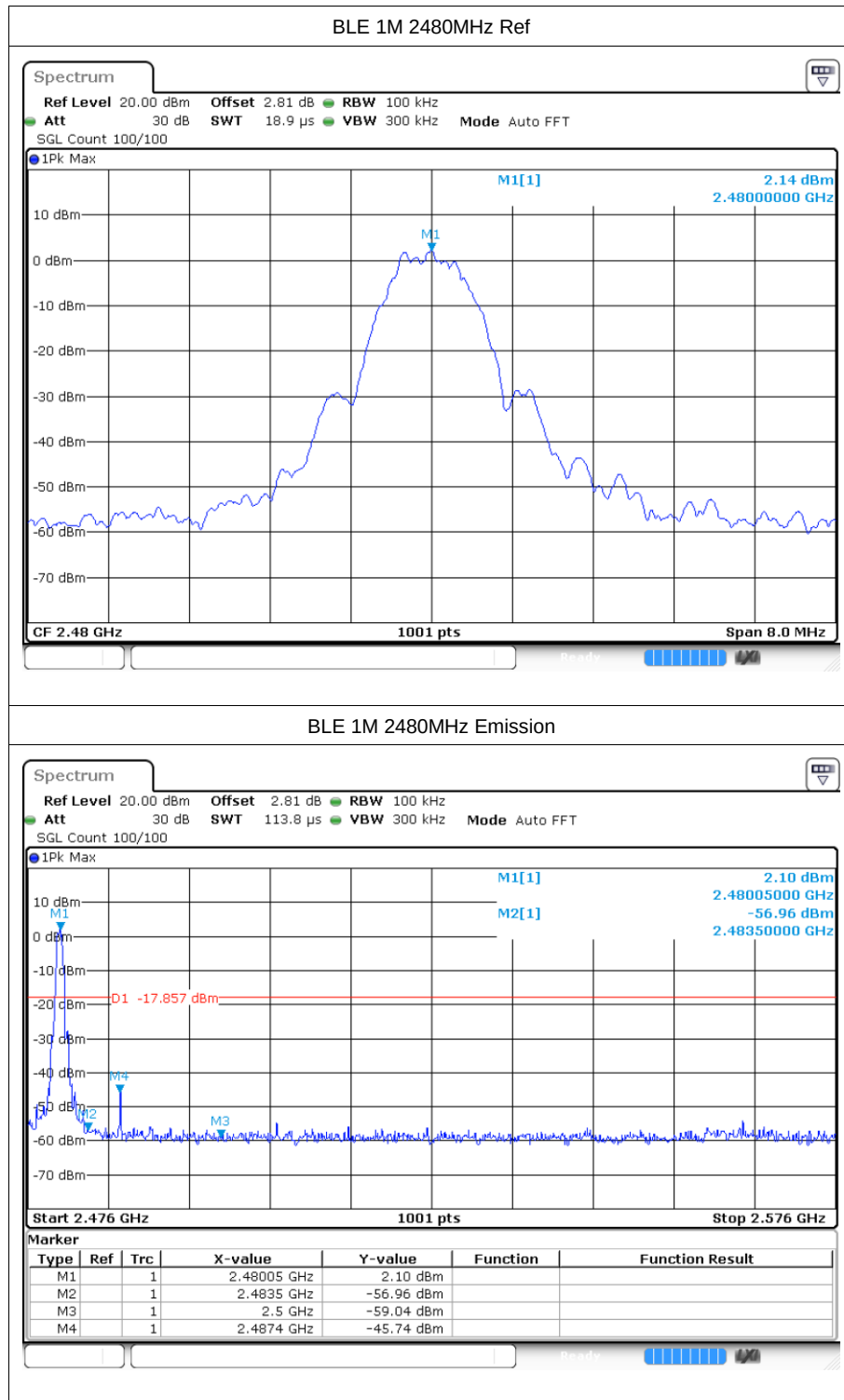
5 Band Edge

5.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-57.58	-20	Pass
BLE 1M	2480	-47.87	-20	Pass

5.2 Test Graphs





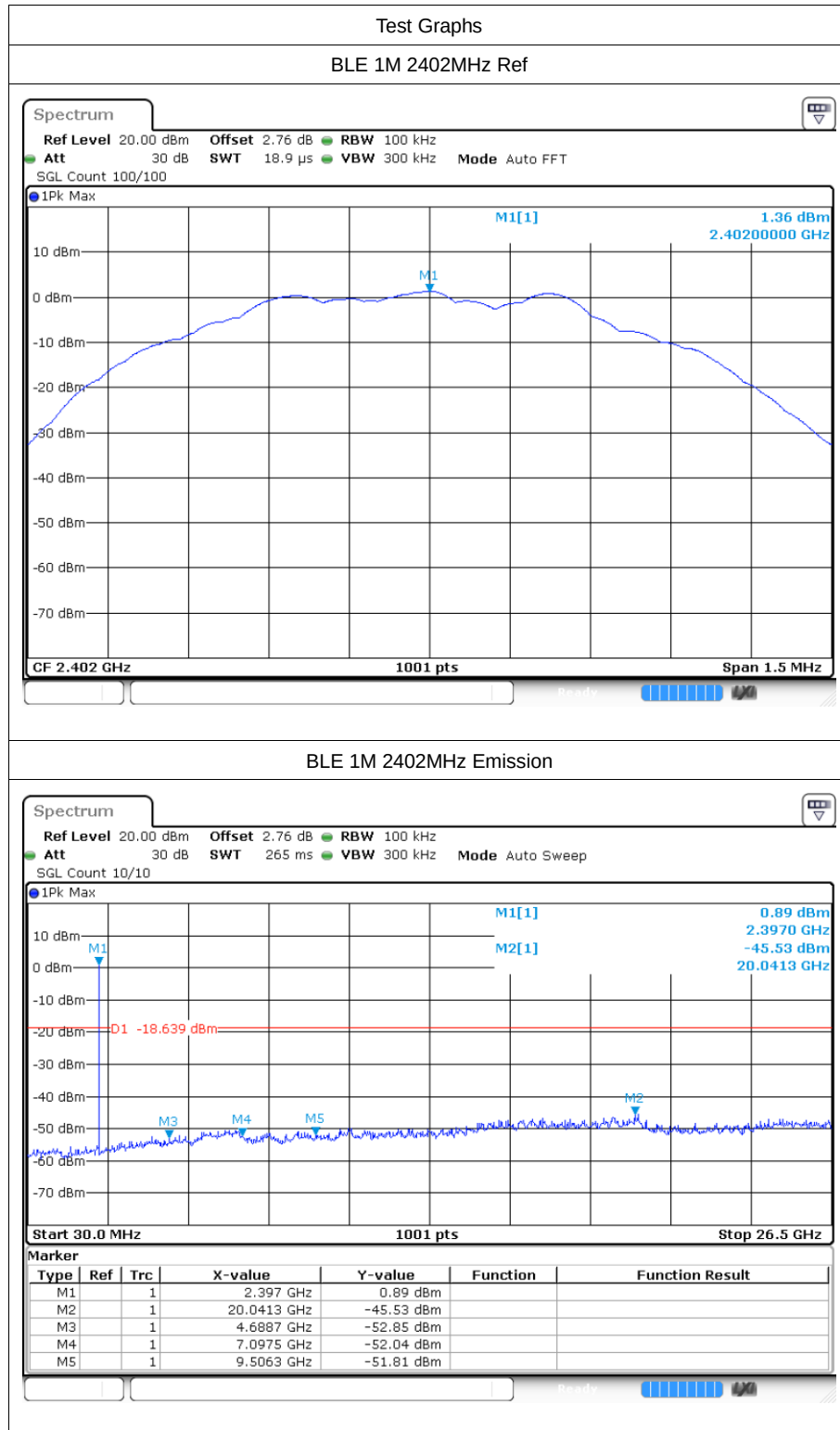


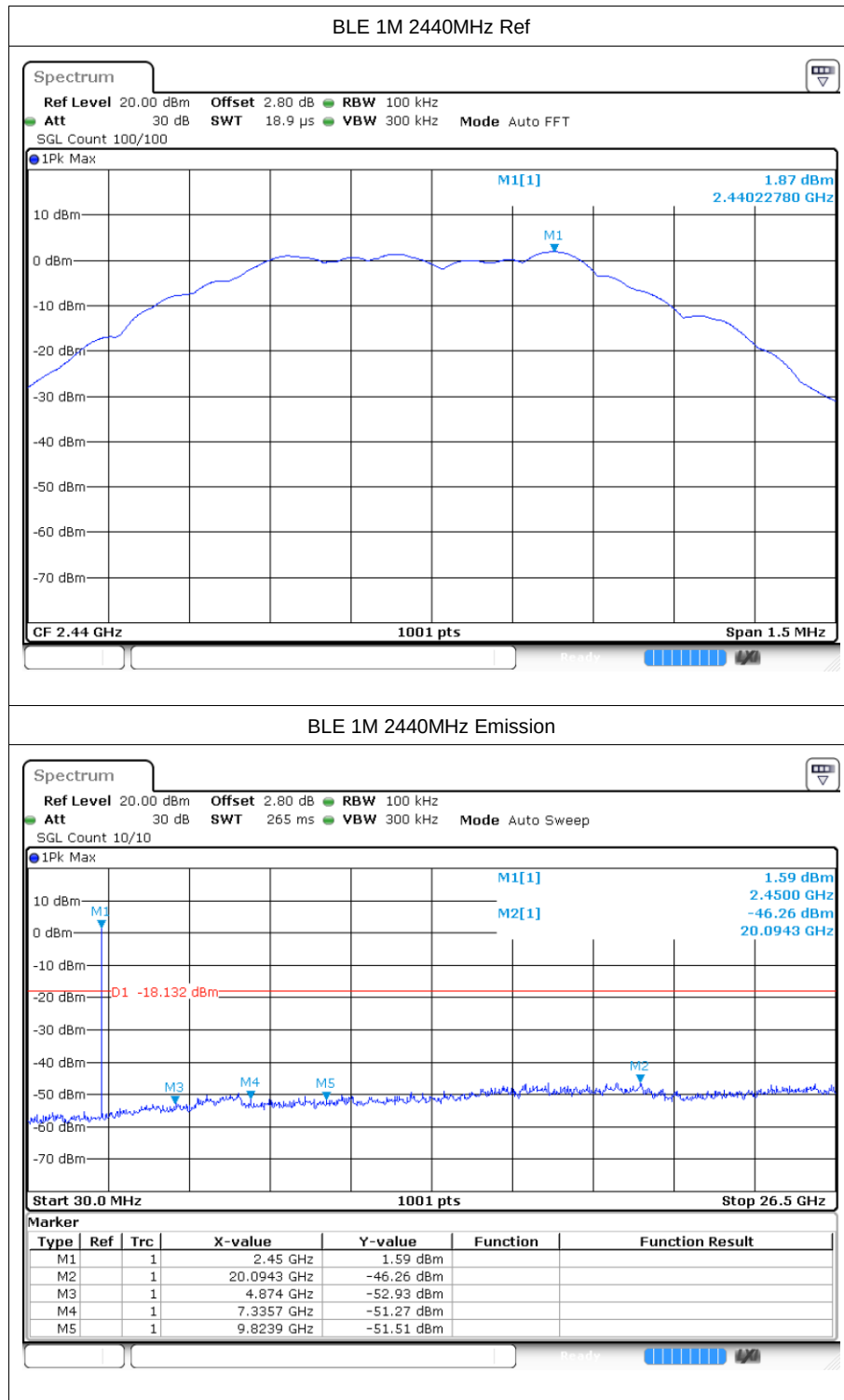
6 Conducted RF Spurious Emission

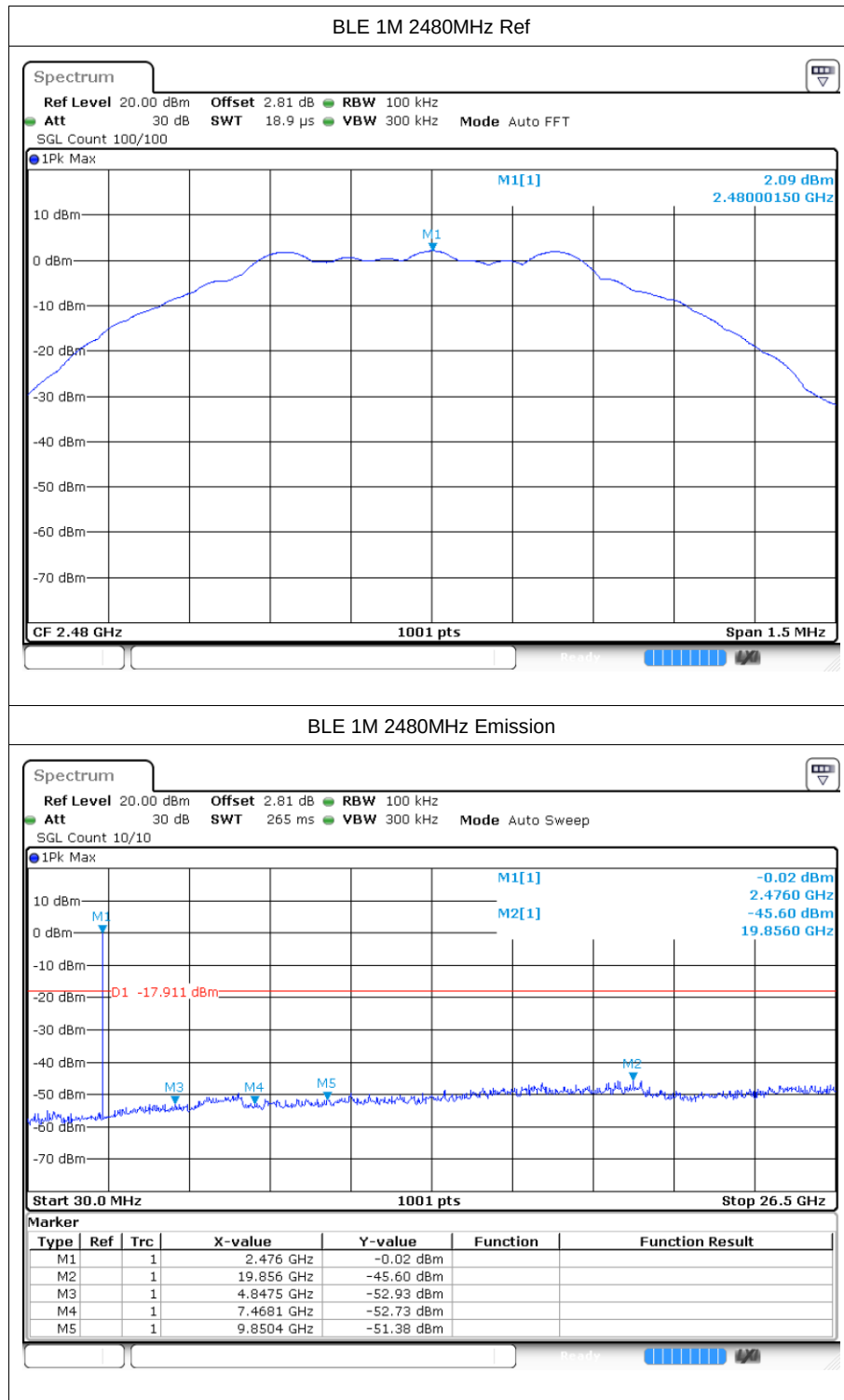
6.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-46.89	-20	Pass
BLE 1M	2440	-48.12	-20	Pass
BLE 1M	2480	-47.68	-20	Pass

6.2 Test Graphs







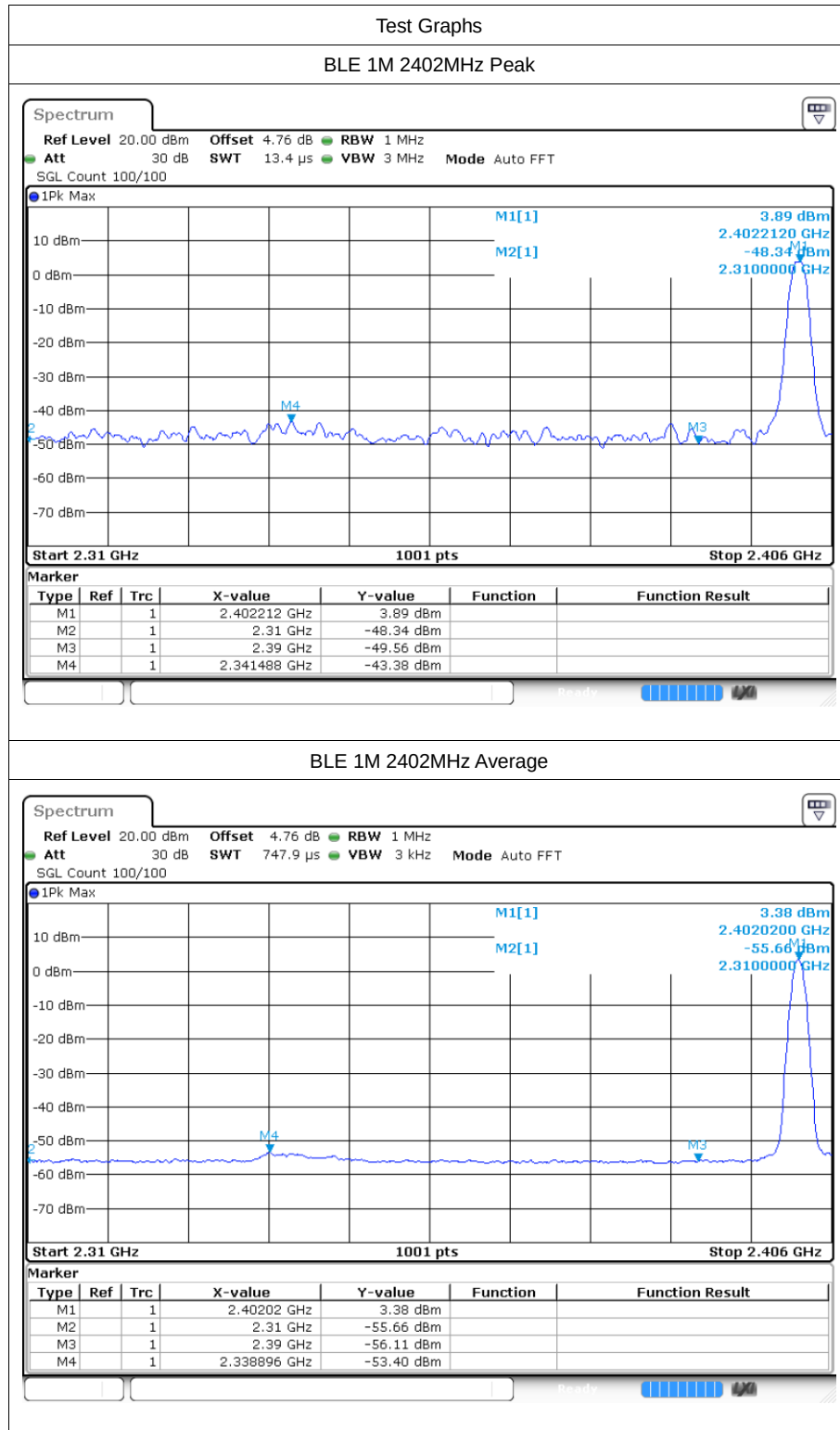


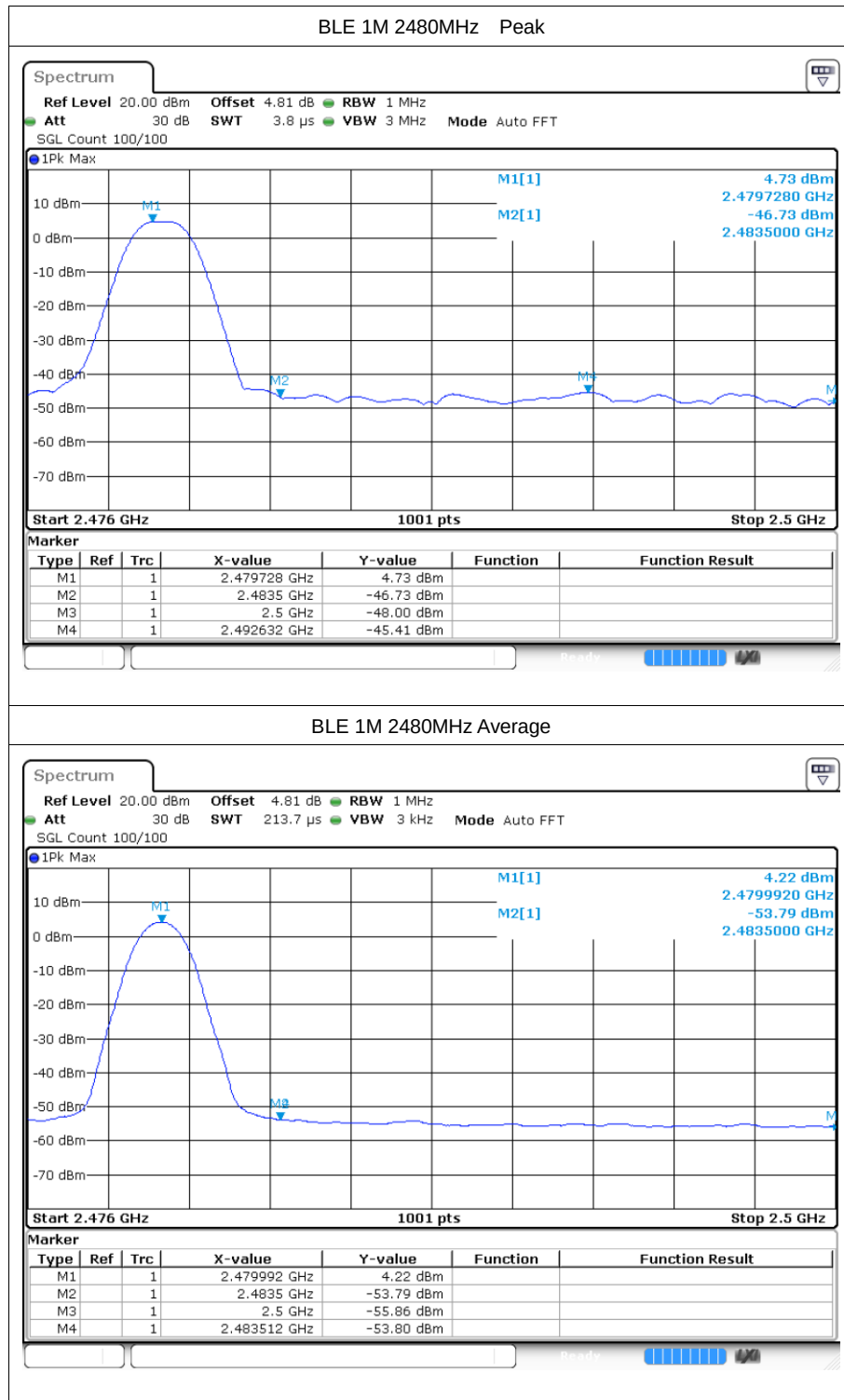
7 Restrict Band

7.1 Test Result

Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
BLE 1M	2402	2310	-48.33	4.5	51.4	Peak	74	Pass
BLE 1M	2402	2310	-55.66	4.5	44.07	Average	54	Pass
BLE 1M	2402	2341.488	-43.38	4.5	56.35	Peak	74	Pass
BLE 1M	2402	2338.896	-53.4	4.5	46.33	Average	54	Pass
BLE 1M	2402	2390	-49.55	4.5	50.18	Peak	74	Pass
BLE 1M	2402	2390	-56.1	4.5	43.63	Average	54	Pass
BLE 1M	2480	2483.5	-46.89	4.5	52.84	Peak	74	Pass
BLE 1M	2480	2483.5	-53.8	4.5	45.93	Average	54	Pass
BLE 1M	2480	2492.632	-45.41	4.5	54.32	Peak	74	Pass
BLE 1M	2480	2483.512	-53.8	4.5	45.93	Average	54	Pass
BLE 1M	2480	2500	-48	4.5	51.73	Peak	74	Pass
BLE 1M	2480	2500	-55.85	4.5	43.88	Average	54	Pass

7.2 Test Graphs





---The End---