



## Appendix B

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

Product Name: EBOOK READER

Trade Mark: HQ MEEBOOK

Test Model: MEEBOOK M7

Environmental Conditions

Temperature:	25.2°C
Relative Humidity:	51.2%
ATM Pressure:	101Kpa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



# Contents

	Page
<b>COVER PAGE</b>	
1 Duty Cycle .....	3
1.1 Test Result.....	3
1.2 Test Graphs .....	4
2 Maximum Conducted Output Power .....	7
2.1 Test Result.....	7
2.2 Test Graphs .....	8
3 -6dB Bandwidth .....	11
3.1 Test Result.....	11
3.2 Test Graphs .....	12
4 Maximum Power Spectral Density Level .....	15
4.1 Test Result.....	15
4.2 Test Graphs .....	16
5 Band Edge.....	19
5.1 Test Result.....	19
5.2 Test Graphs .....	20
6 Conducted RF Spurious Emission.....	24
6.1 Test Result.....	24
6.2 Test Graphs .....	25
7 Restrict Band.....	31
7.1 Test Result.....	31
7.2 Test Graphs .....	33

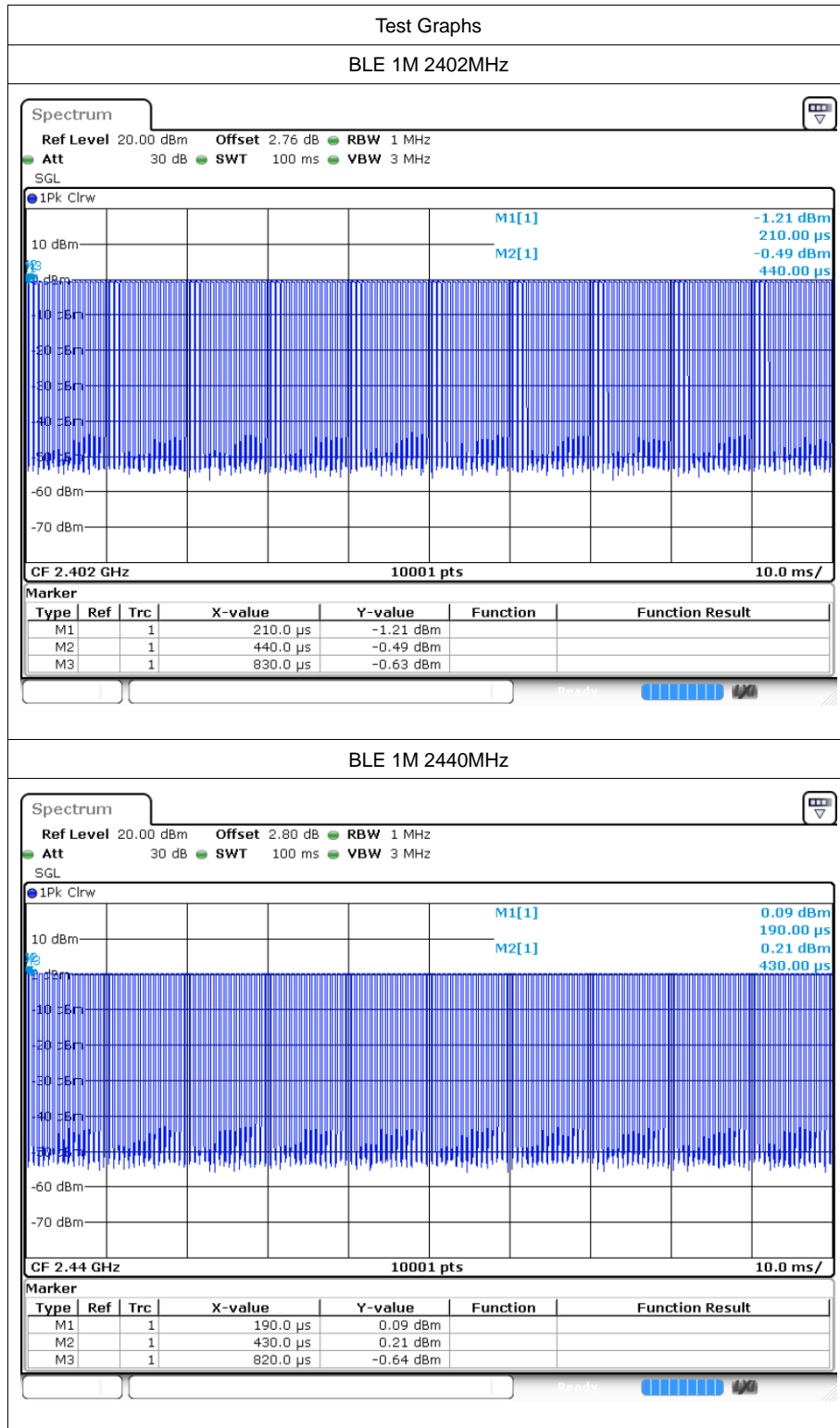


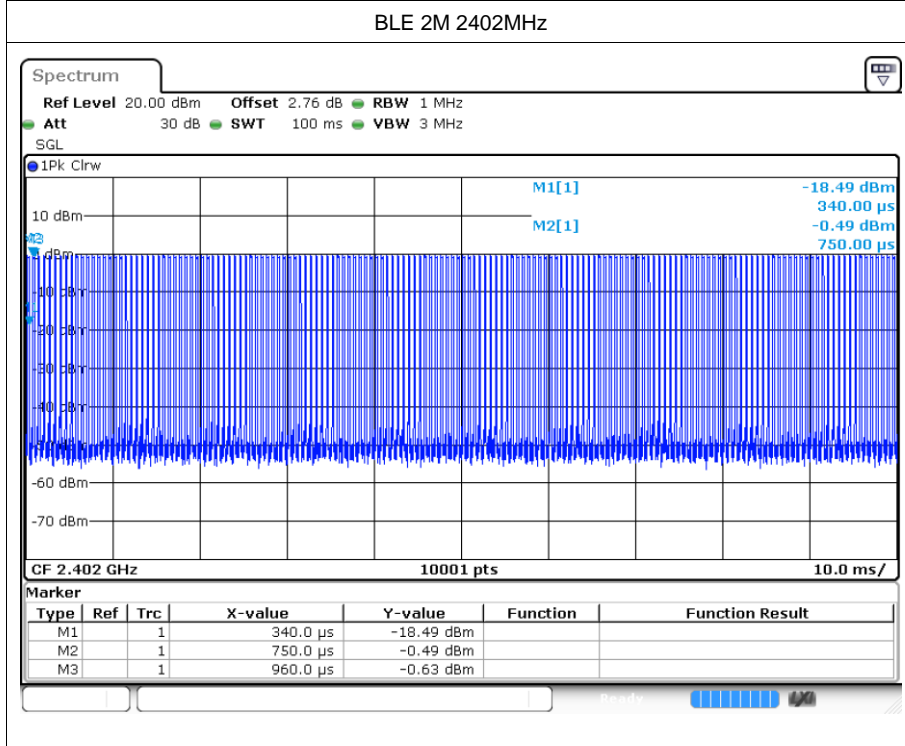
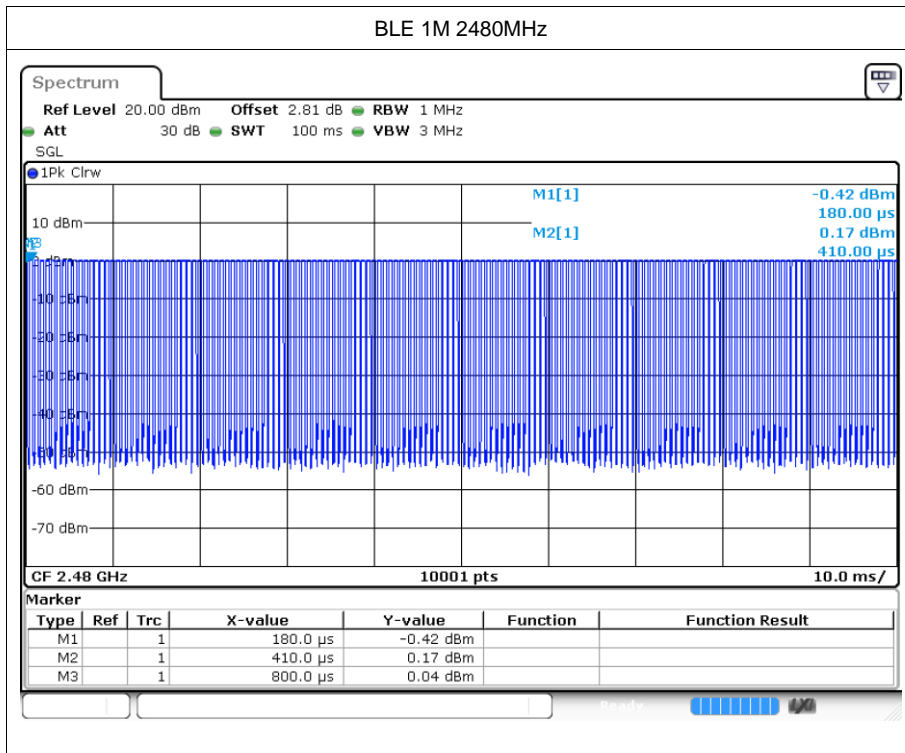
# 1 Duty Cycle

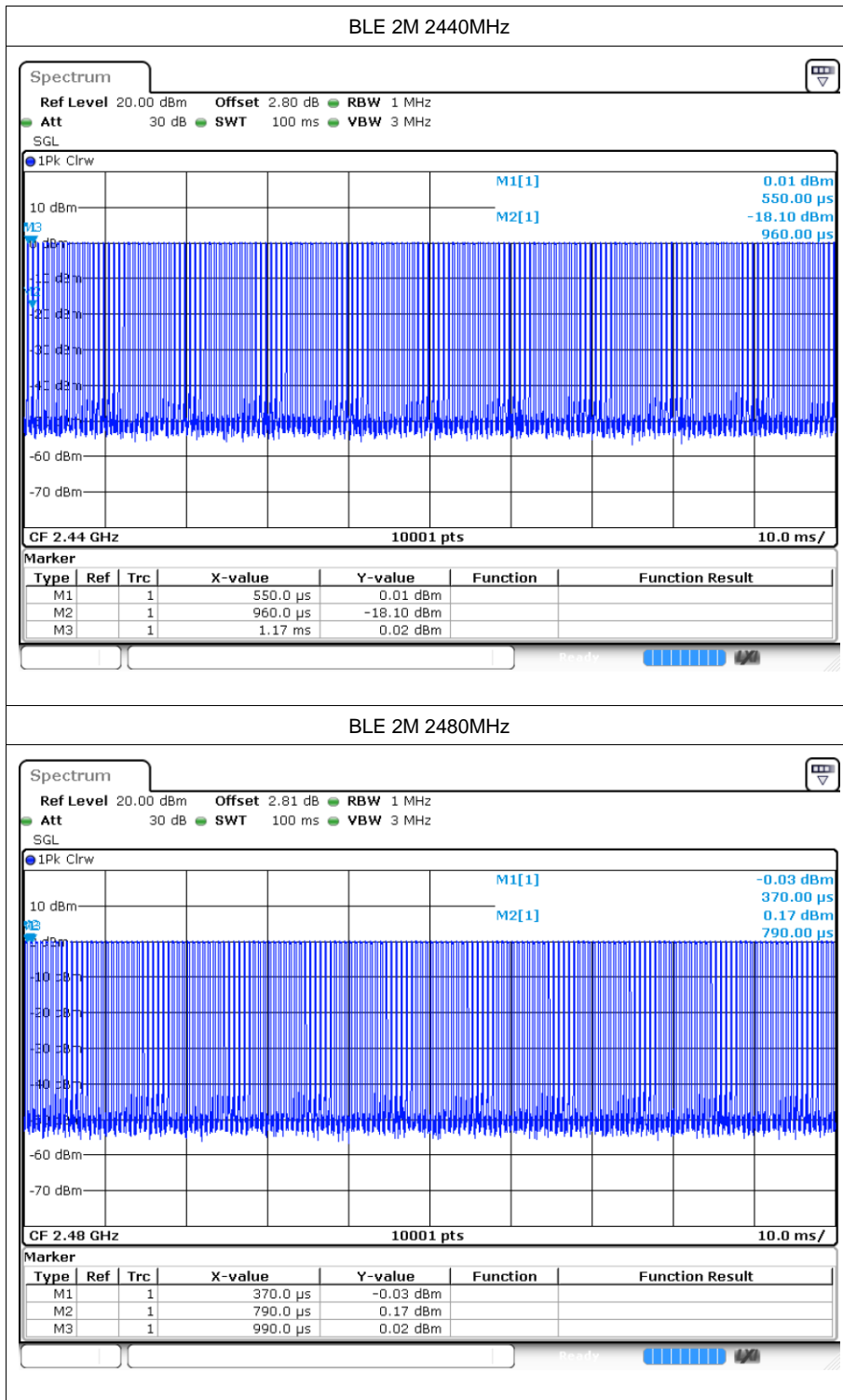
## 1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
BLE 1M	2402	64.11	2.56
BLE 1M	2440	64	2.56
BLE 1M	2480	64.64	2.56
BLE 2M	2402	35.2	4.76
BLE 2M	2440	34.52	4.76
BLE 2M	2480	34.94	5

## 1.2 Test Graphs







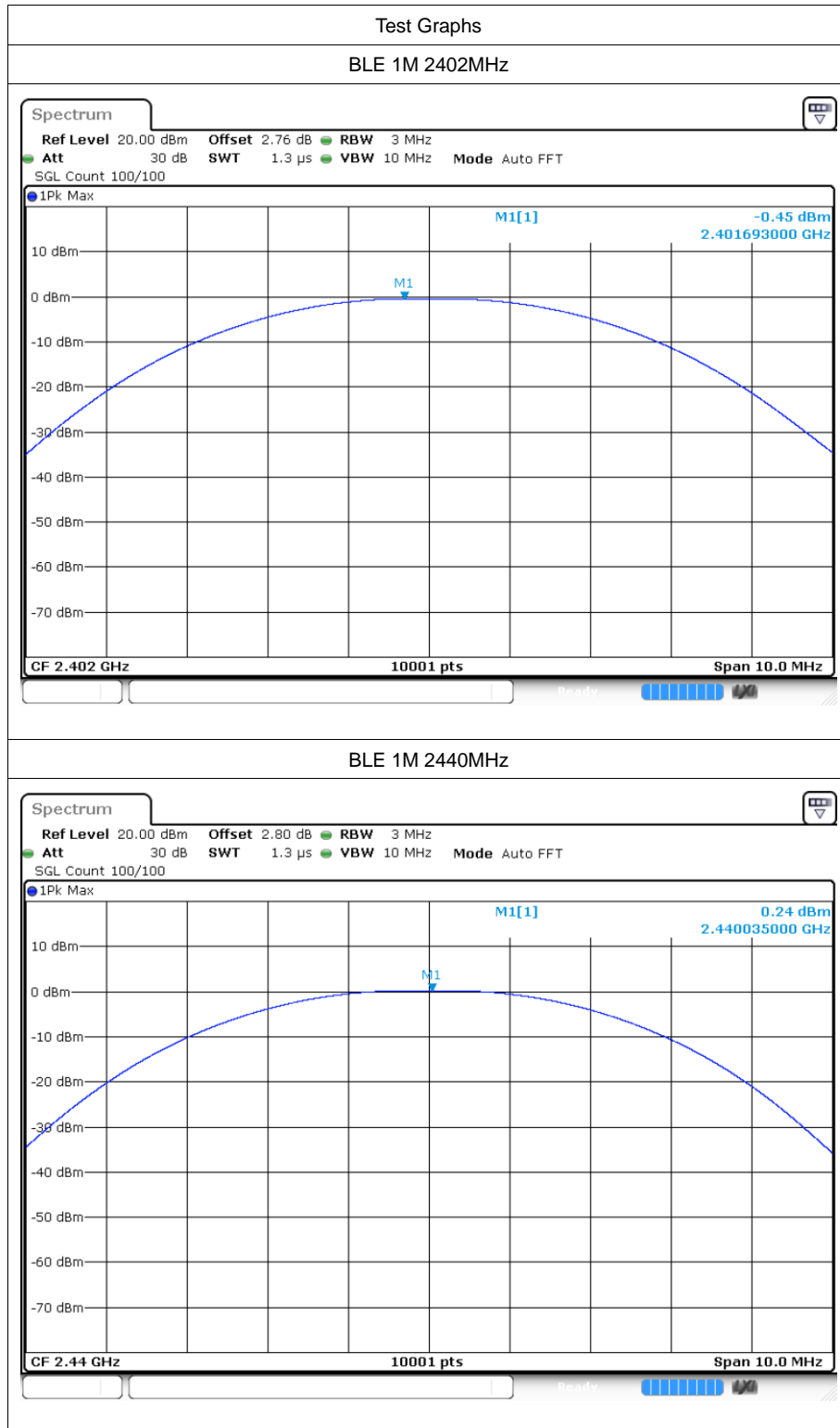


## 2 Maximum Conducted Output Power

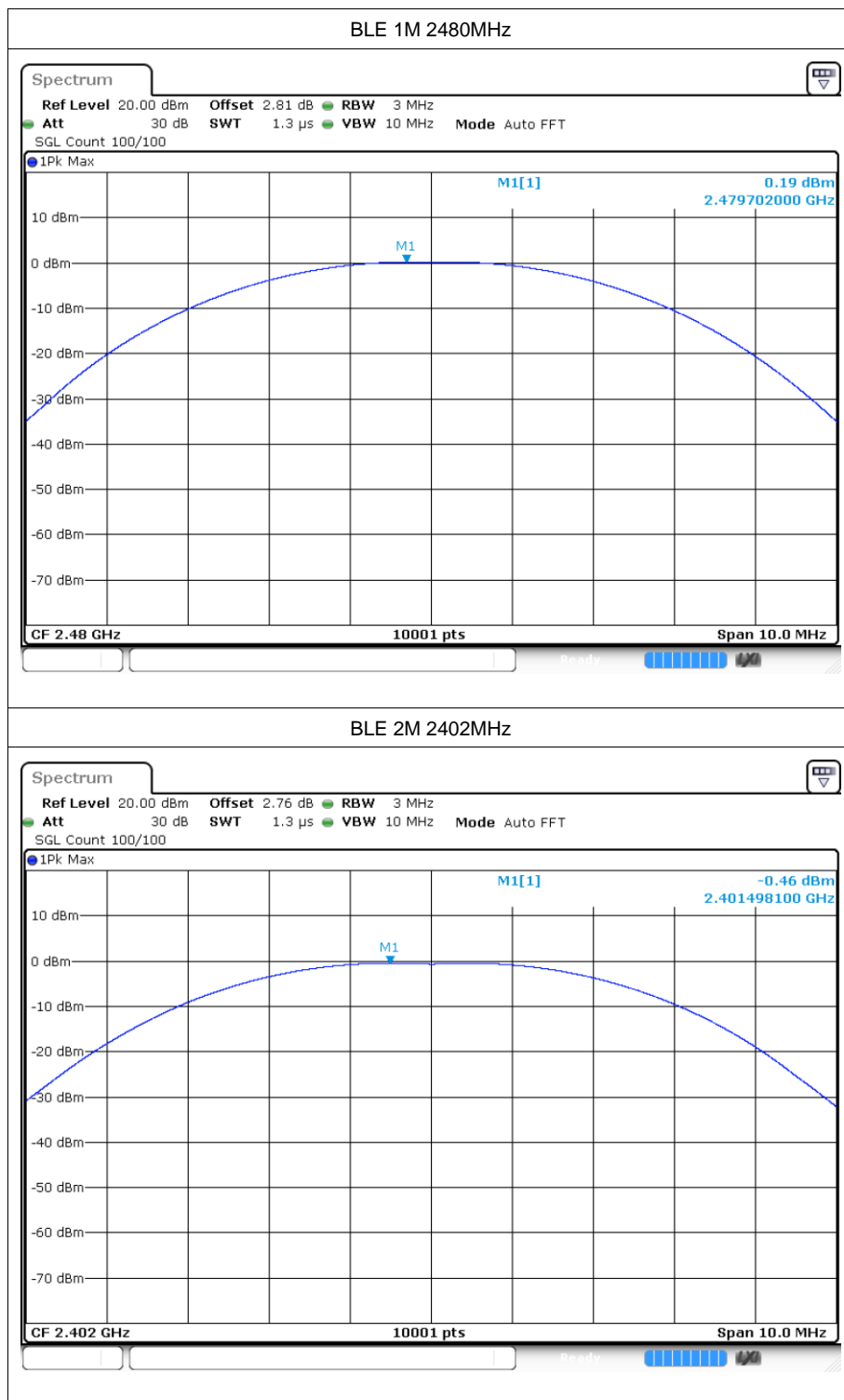
### 2.1 Test Result

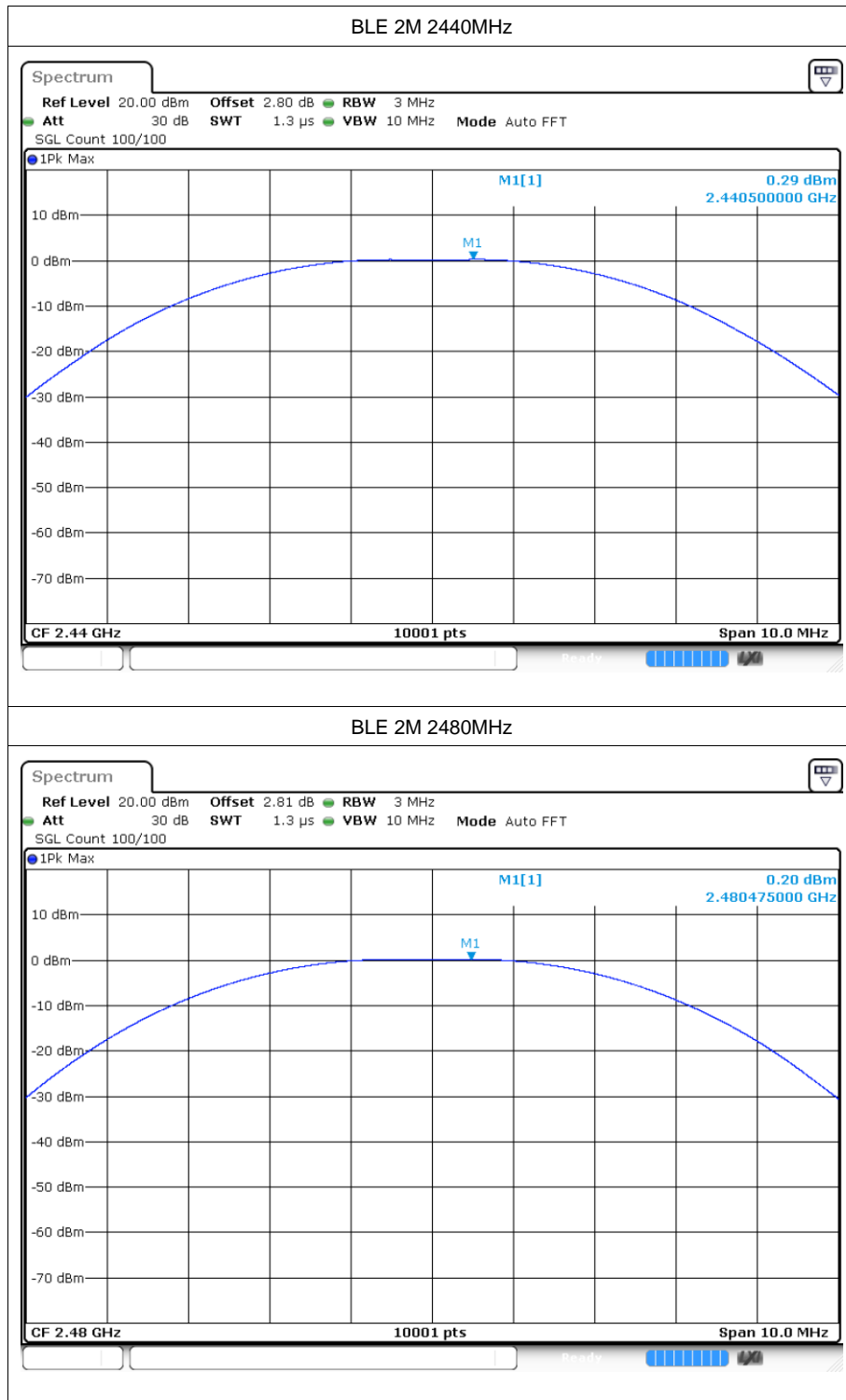
Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	-0.45	30	Pass
BLE 1M	2440	0.24	30	Pass
BLE 1M	2480	0.19	30	Pass
BLE 2M	2402	-0.46	30	Pass
BLE 2M	2440	0.29	30	Pass
BLE 2M	2480	0.2	30	Pass

## 2.2 Test Graphs









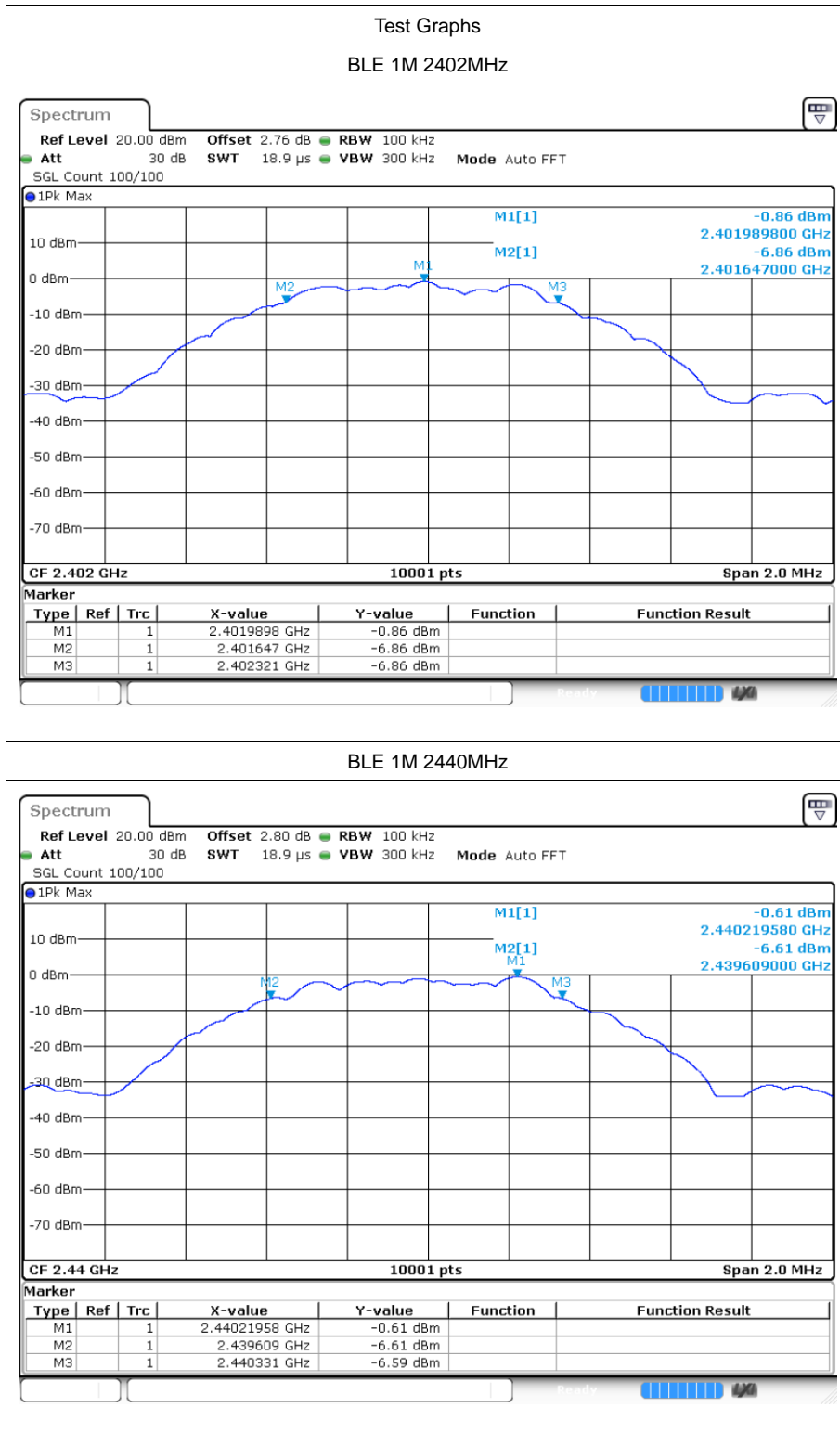


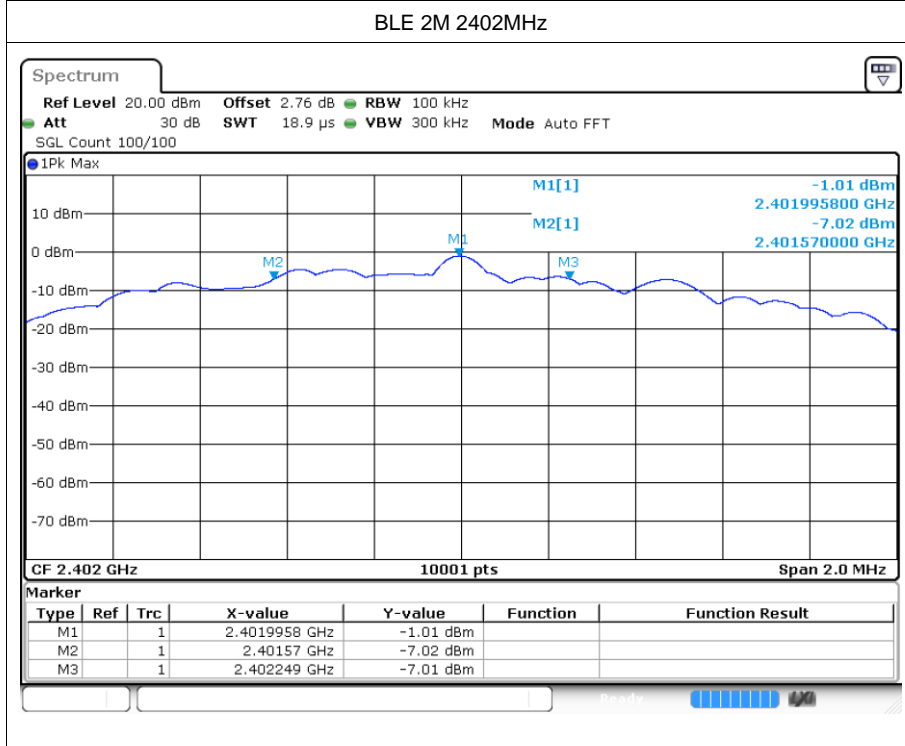
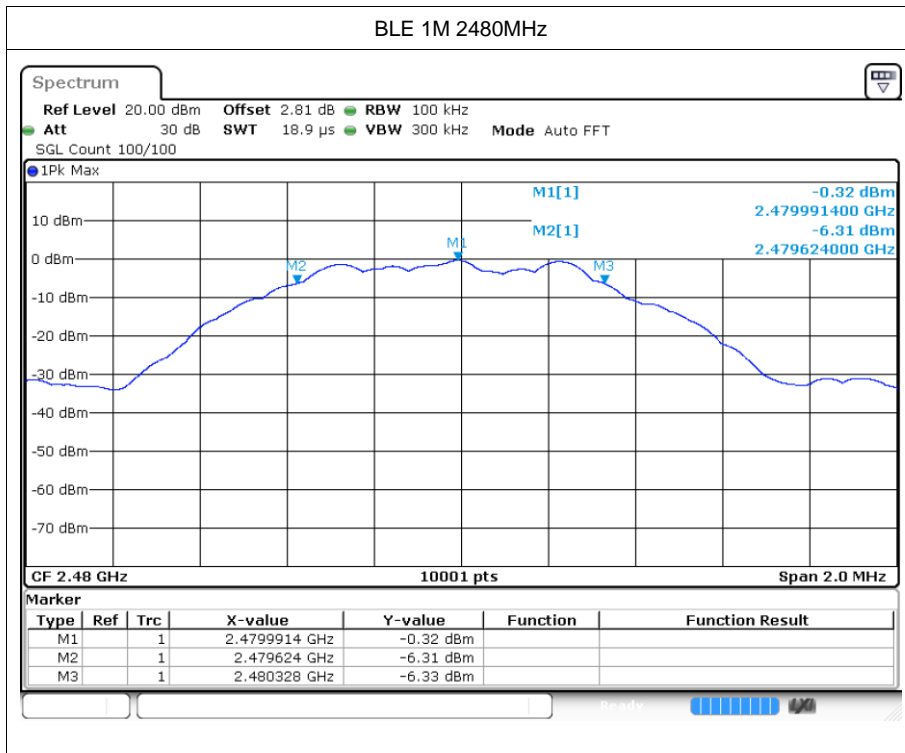
### 3 -6dB Bandwidth

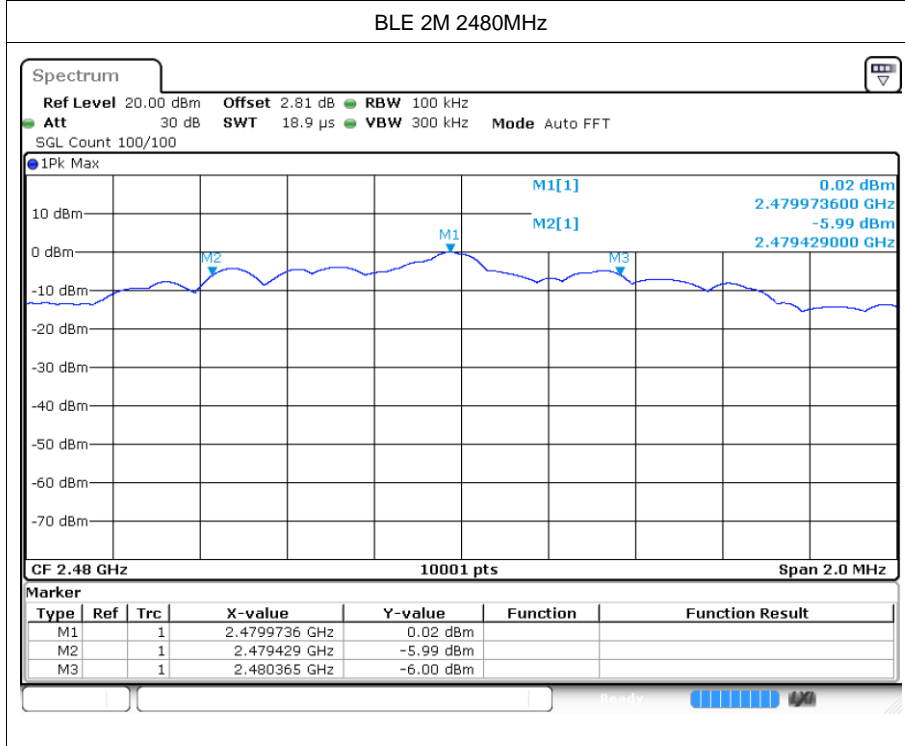
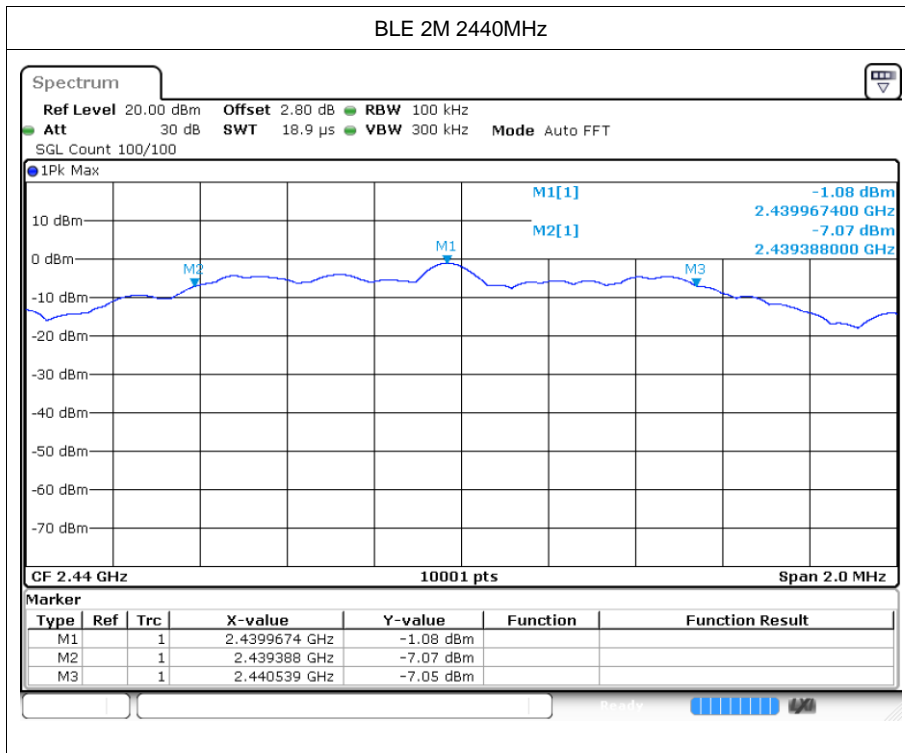
#### 3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.673	0.5	Pass
BLE 1M	2440	0.722	0.5	Pass
BLE 1M	2480	0.704	0.5	Pass
BLE 2M	2402	0.679	0.5	Pass
BLE 2M	2440	1.152	0.5	Pass
BLE 2M	2480	0.936	0.5	Pass

### 3.2 Test Graphs







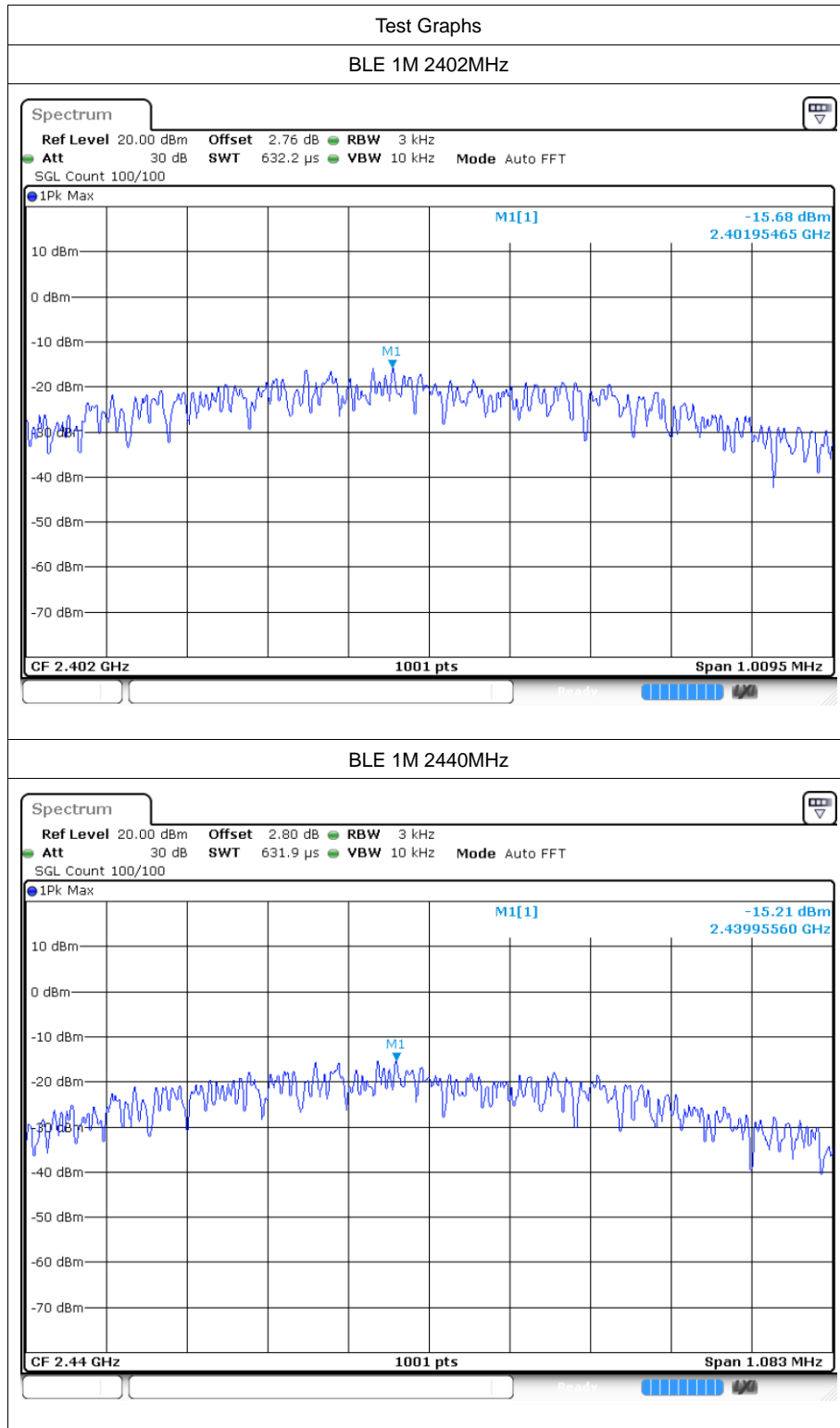


## 4 Maximum Power Spectral Density Level

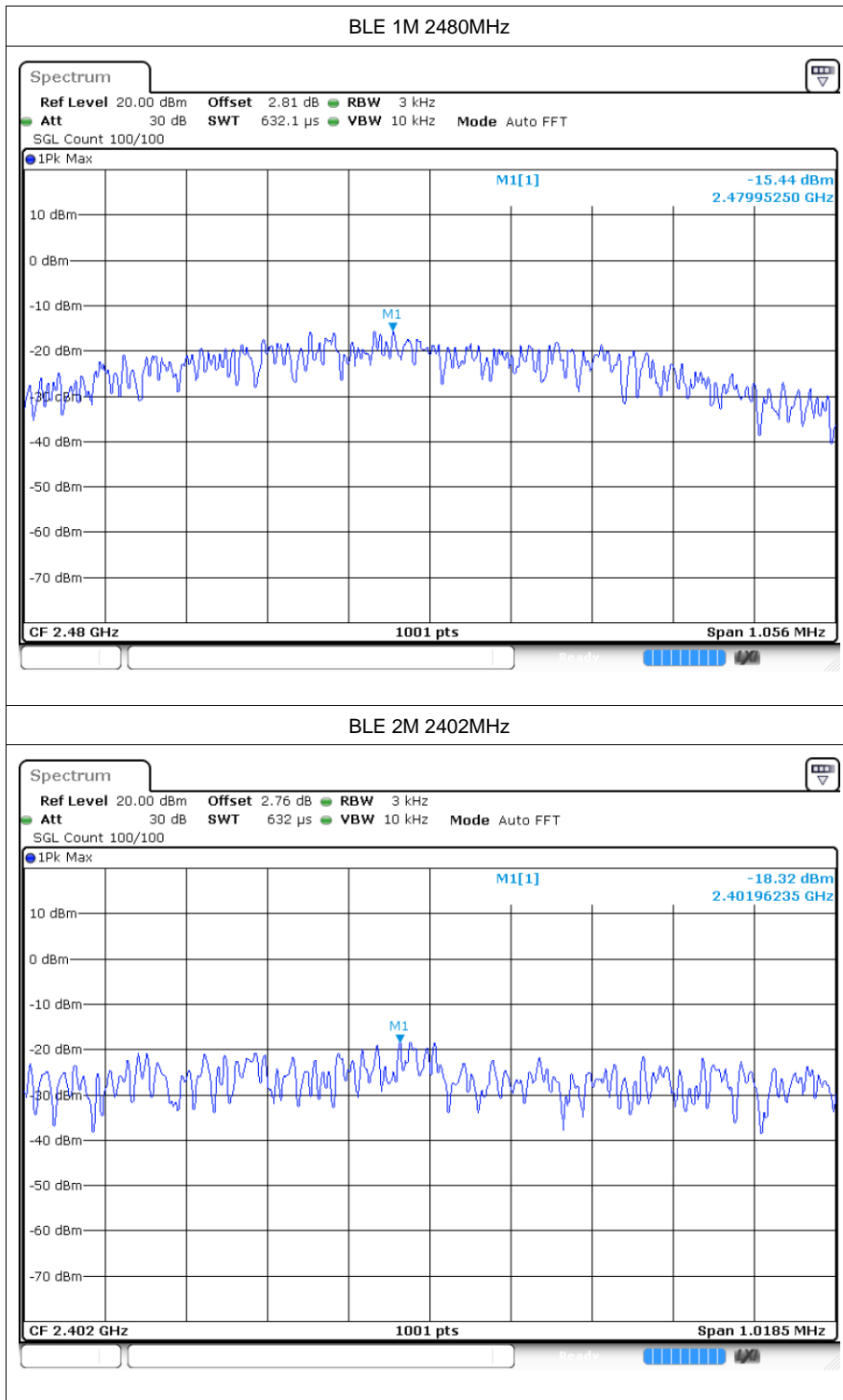
### 4.1 Test Result

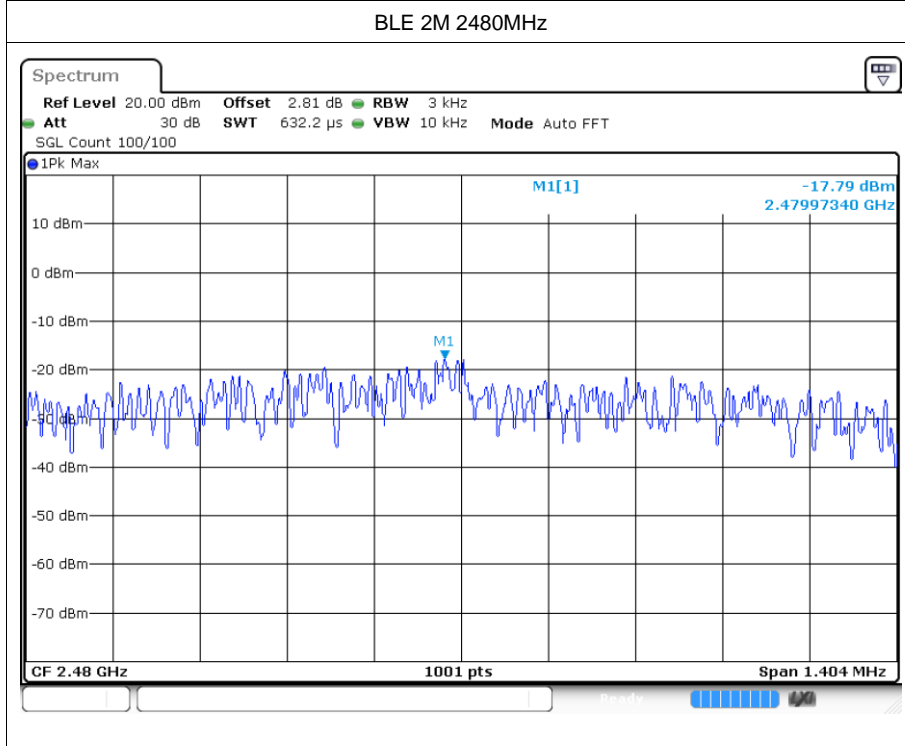
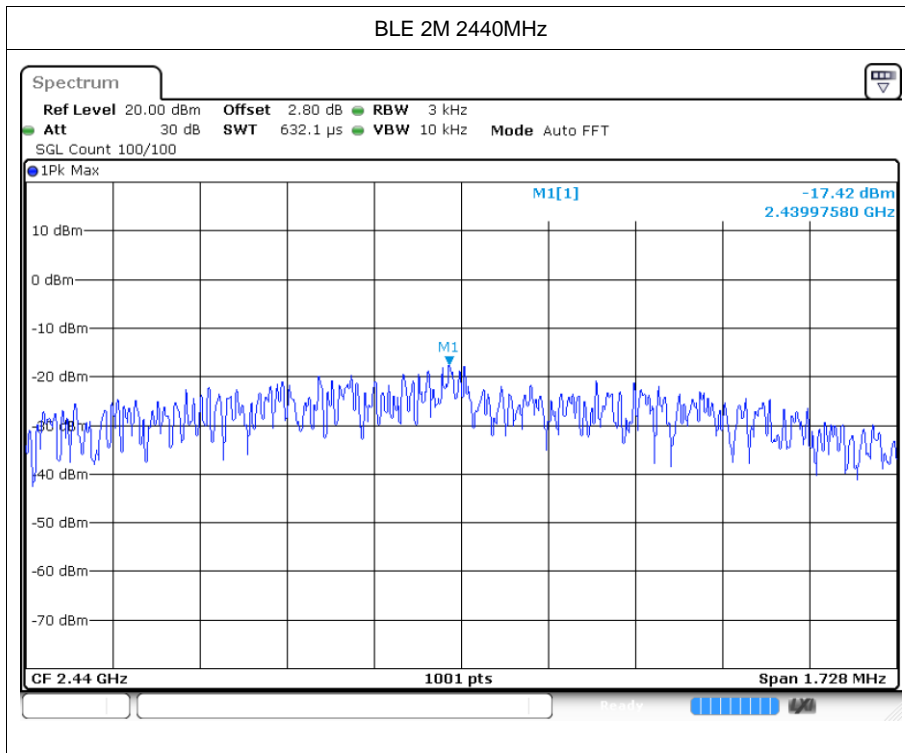
Mode	Frequency (MHz)	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-15.68	≤8	Pass
BLE 1M	2440	-15.21	≤8	Pass
BLE 1M	2480	-15.44	≤8	Pass
BLE 2M	2402	-18.32	≤8	Pass
BLE 2M	2440	-17.42	≤8	Pass
BLE 2M	2480	-17.79	≤8	Pass

## 4.2 Test Graphs









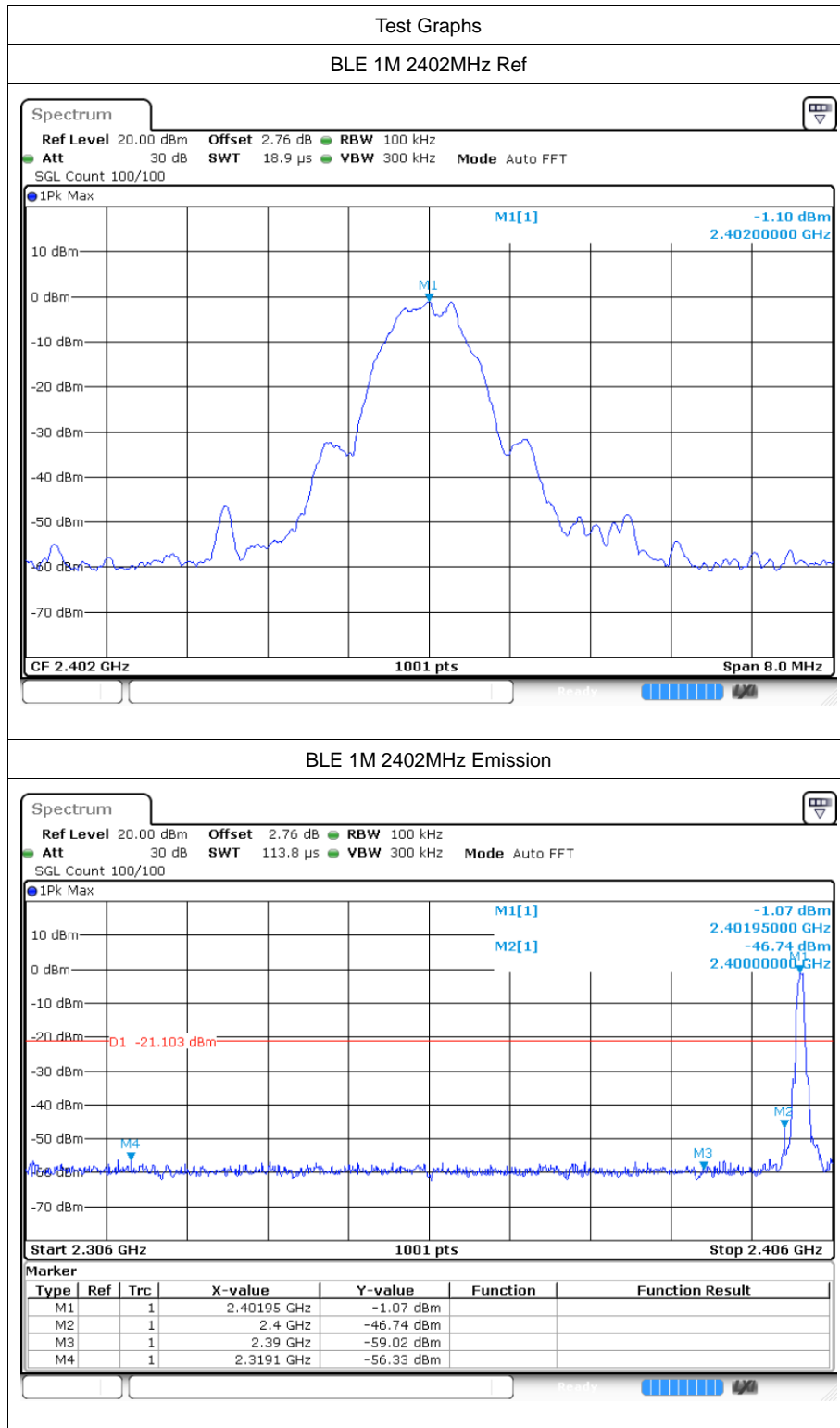


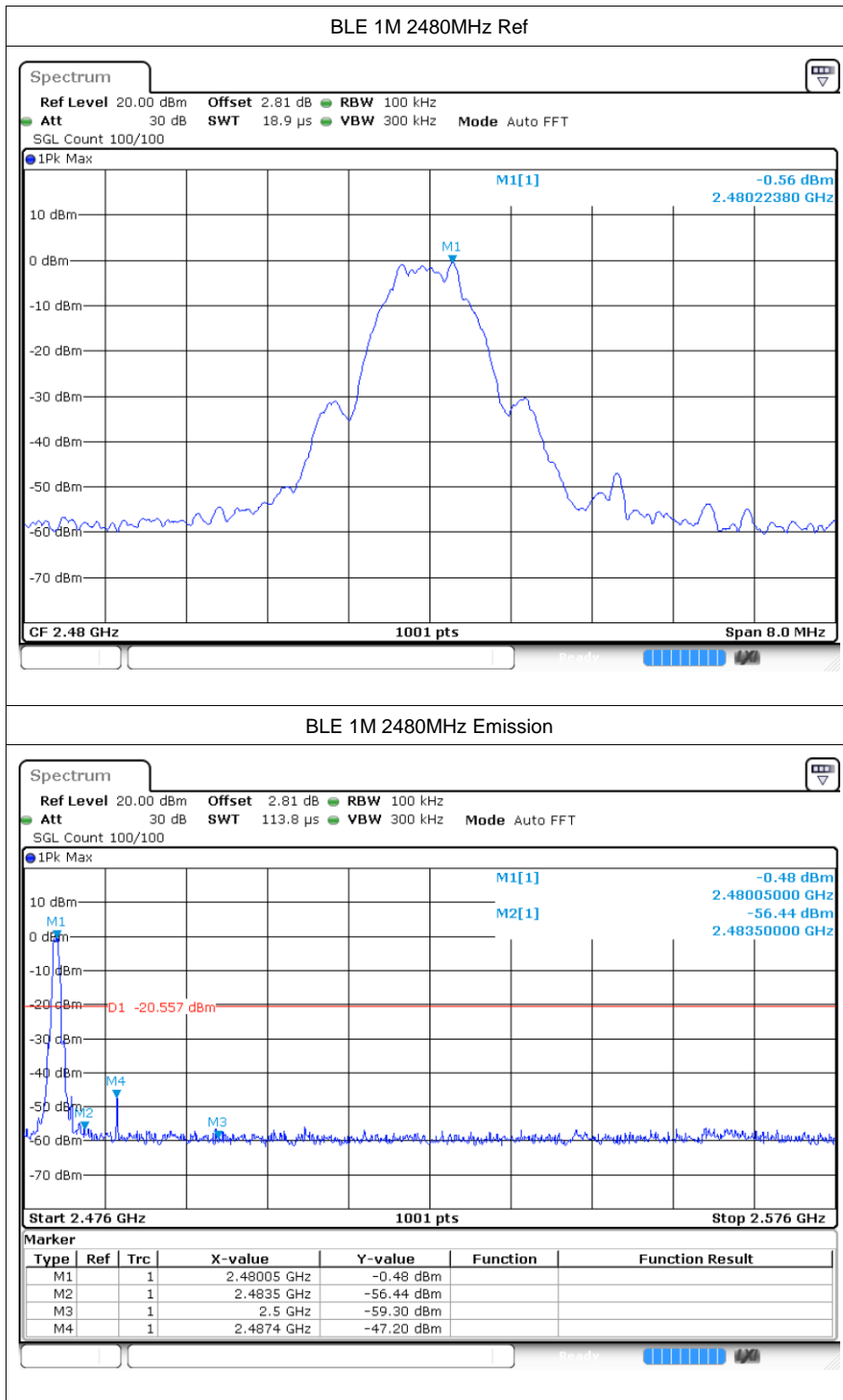
## 5 Band Edge

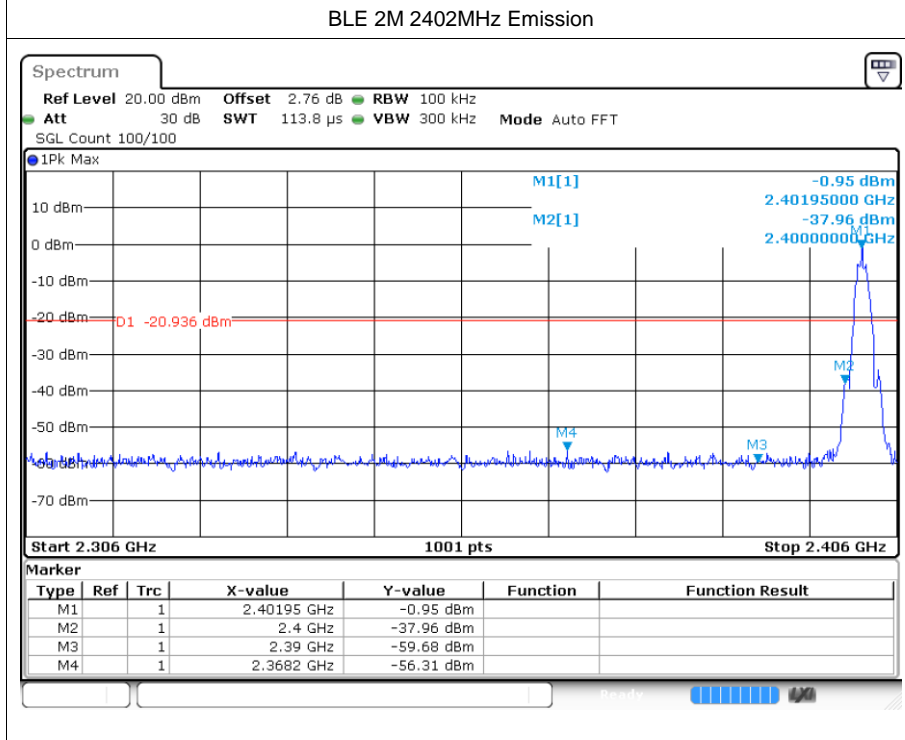
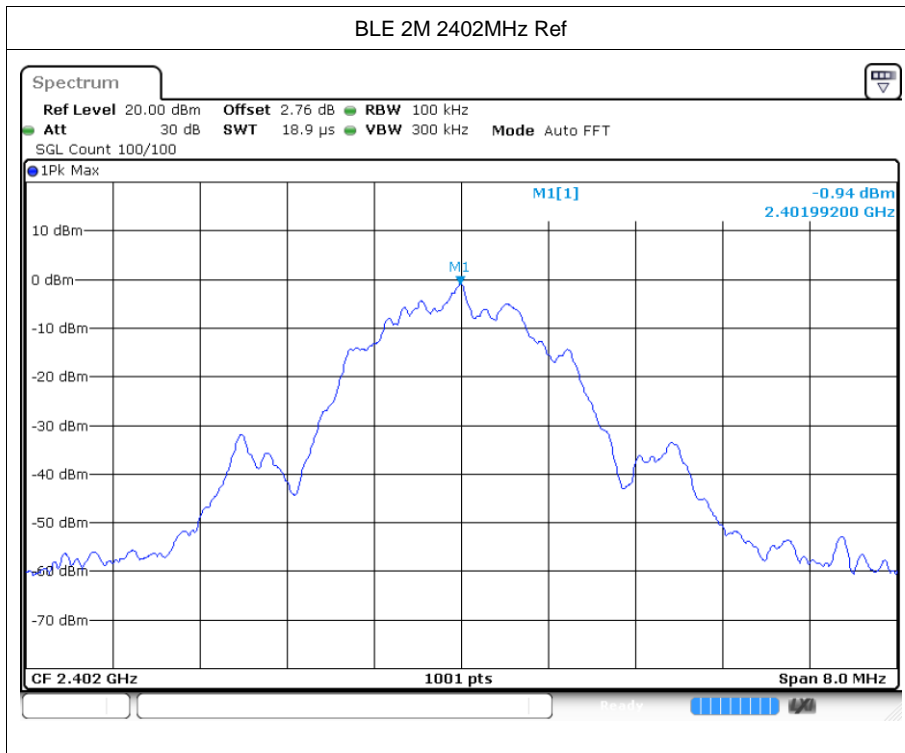
### 5.1 Test Result

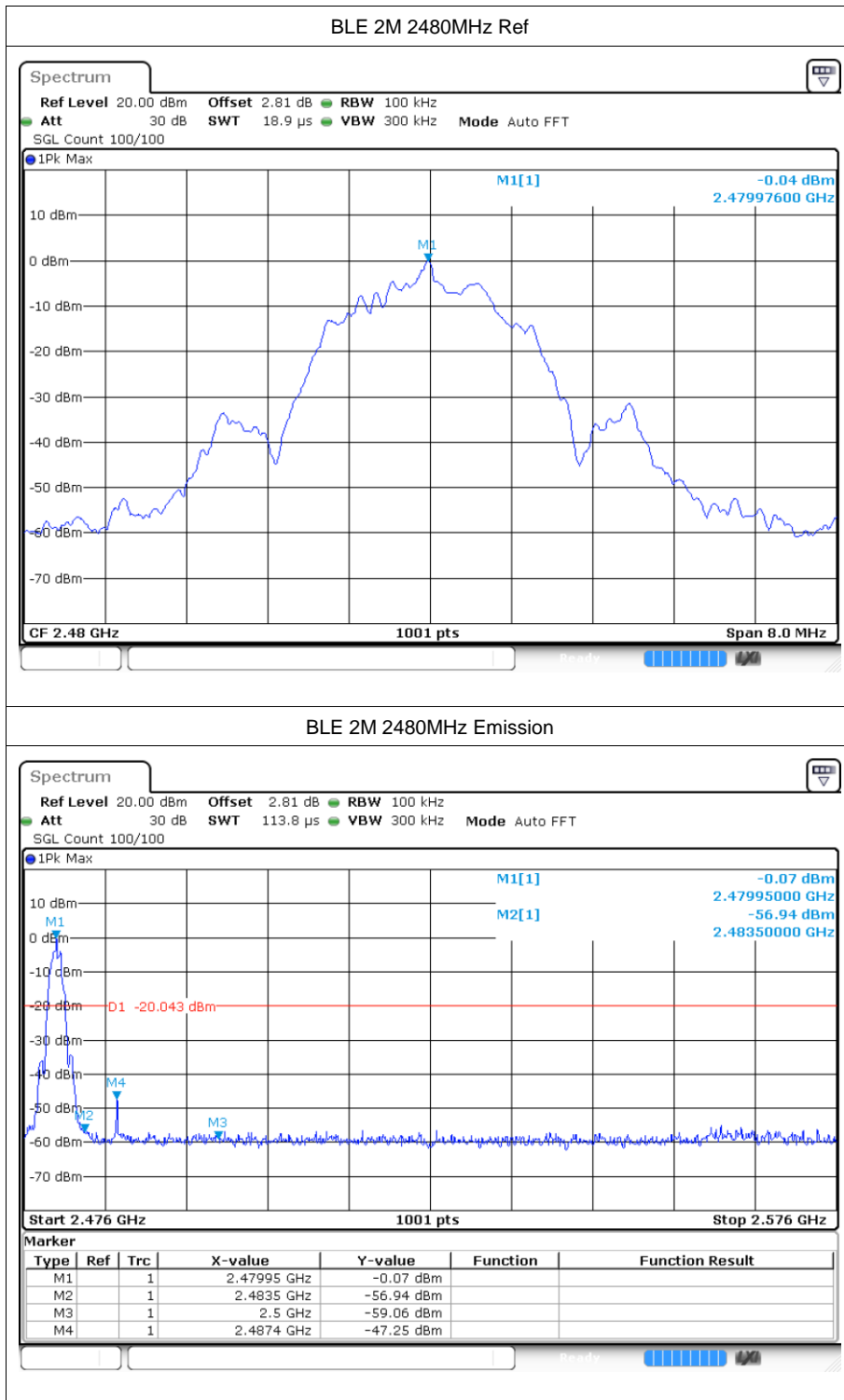
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-55.23	-20	Pass
BLE 1M	2480	-46.63	-20	Pass
BLE 2M	2402	-55.37	-20	Pass
BLE 2M	2480	-47.21	-20	Pass

## 5.2 Test Graphs











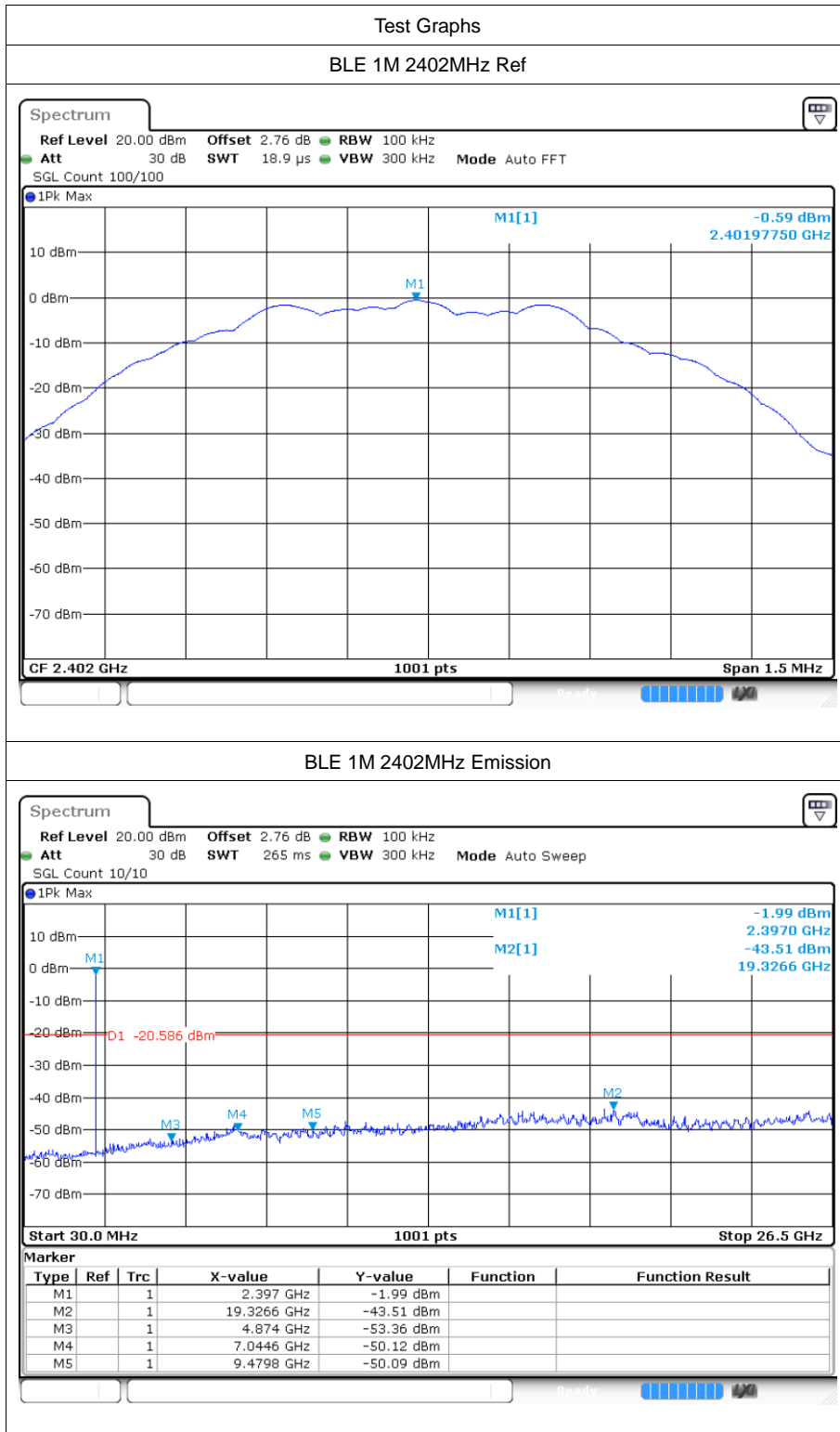
## 6 Conducted RF Spurious Emission

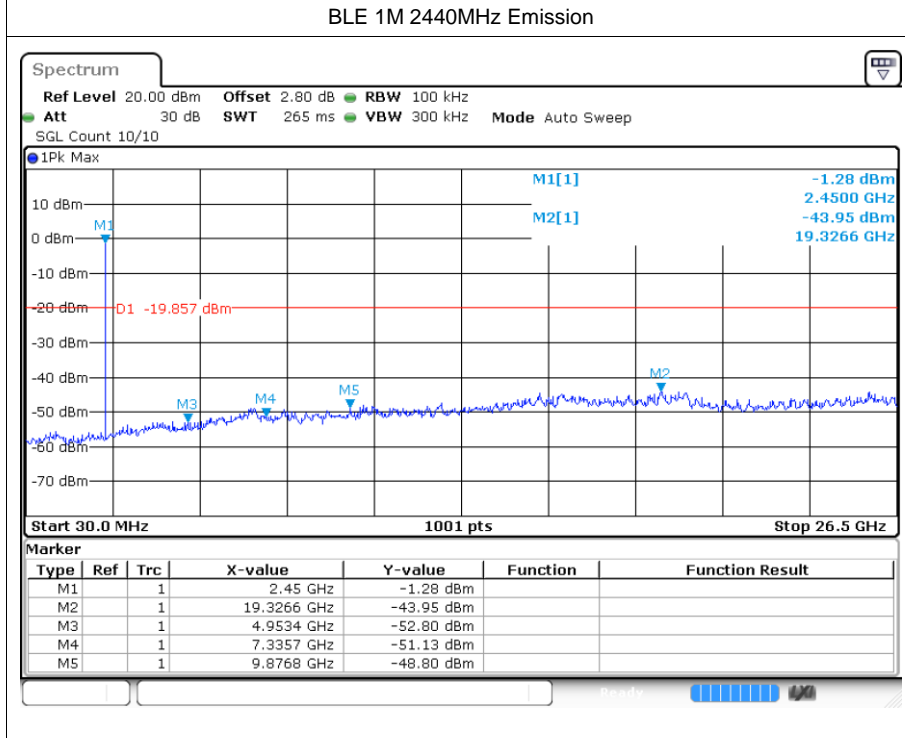
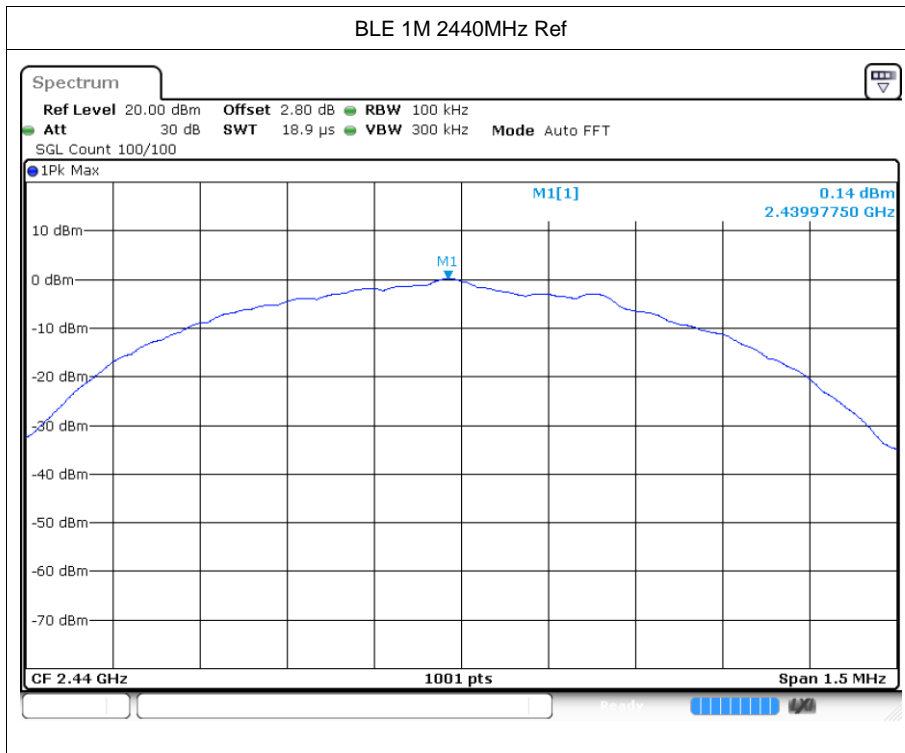
### 6.1 Test Result

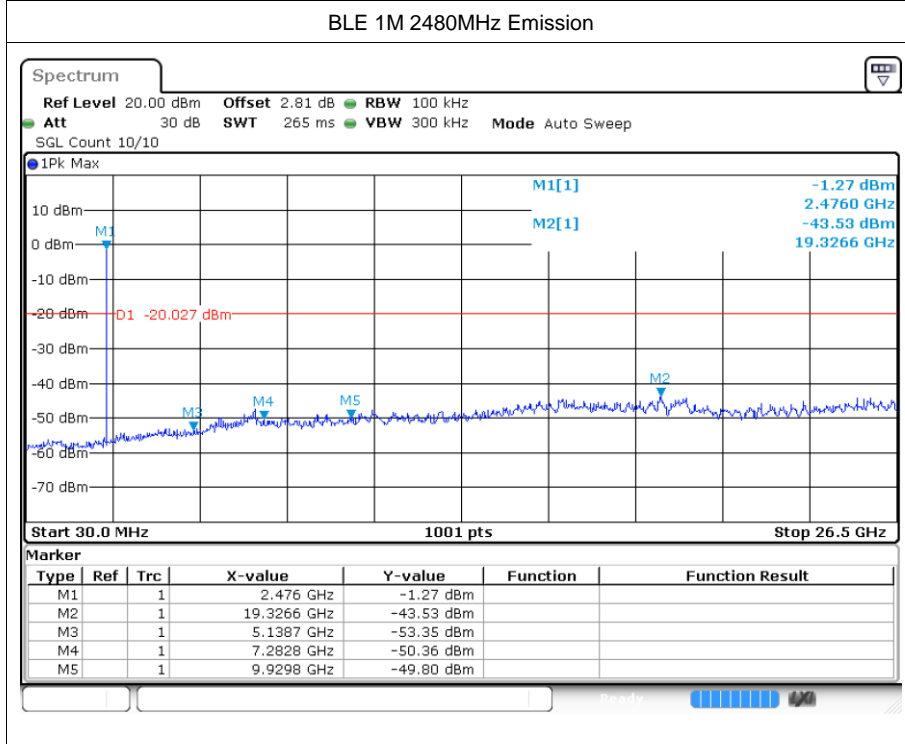
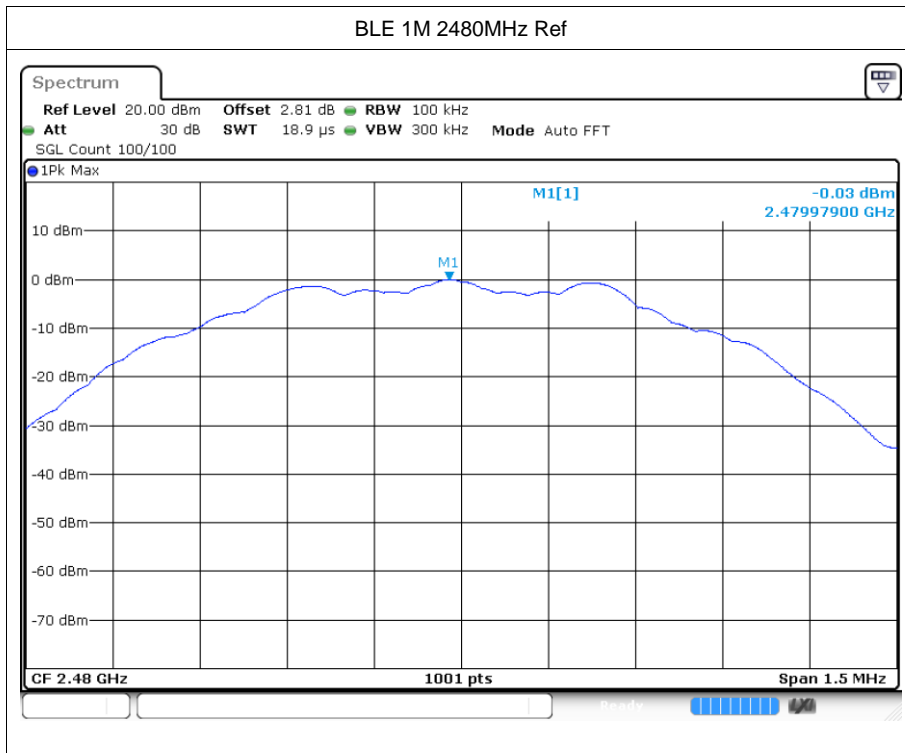
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-42.91	-20	Pass
BLE 1M	2440	-44.08	-20	Pass
BLE 1M	2480	-43.5	-20	Pass
BLE 2M	2402	-42.25	-20	Pass
BLE 2M	2440	-42.37	-20	Pass
BLE 2M	2480	-42.61	-20	Pass

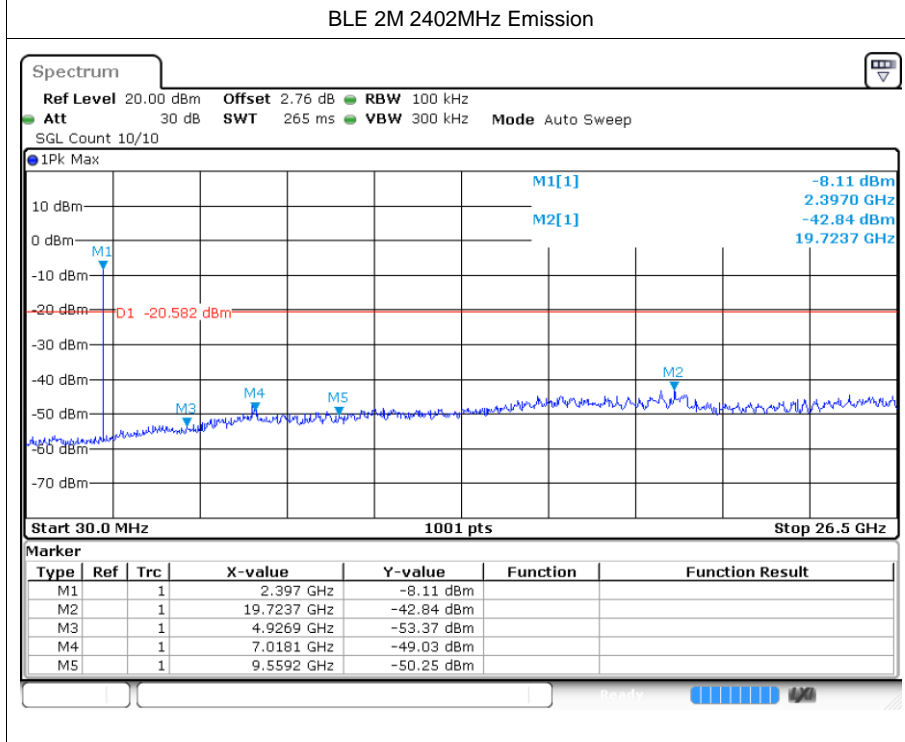
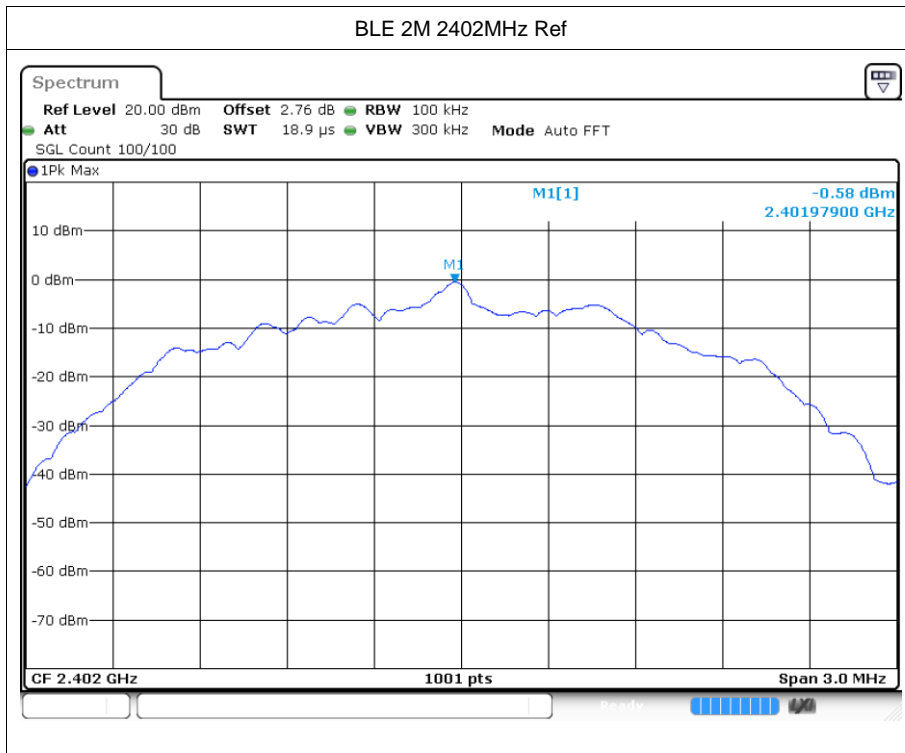


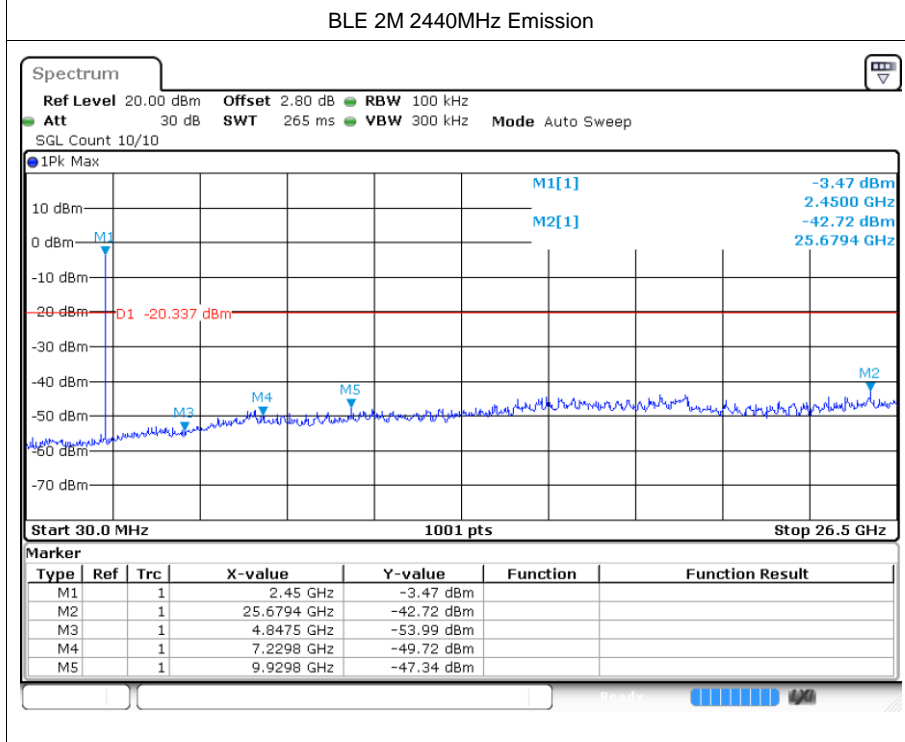
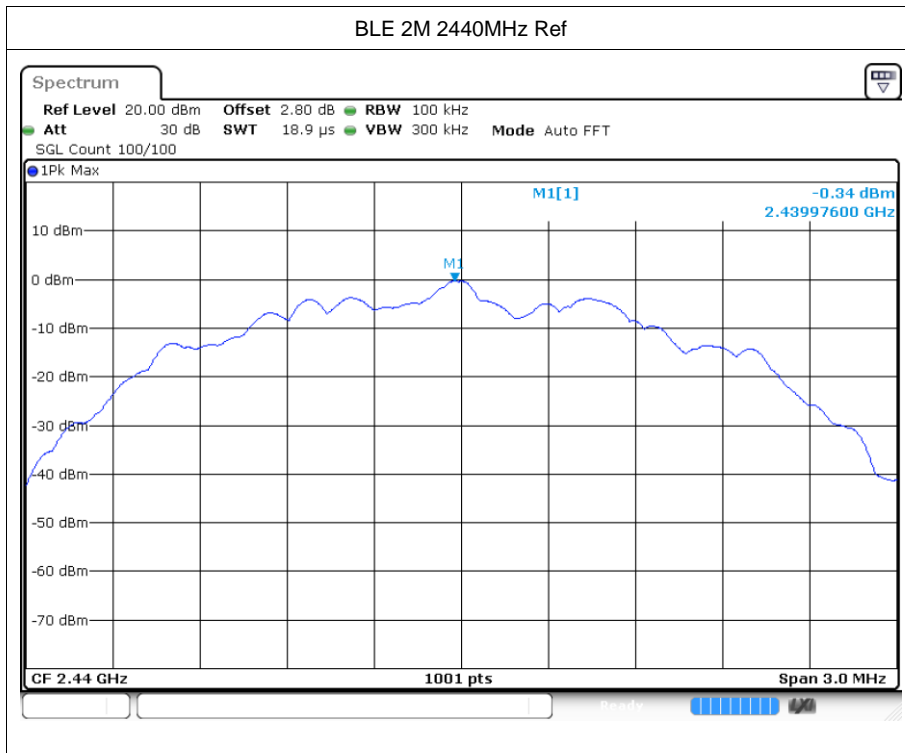
## 6.2 Test Graphs

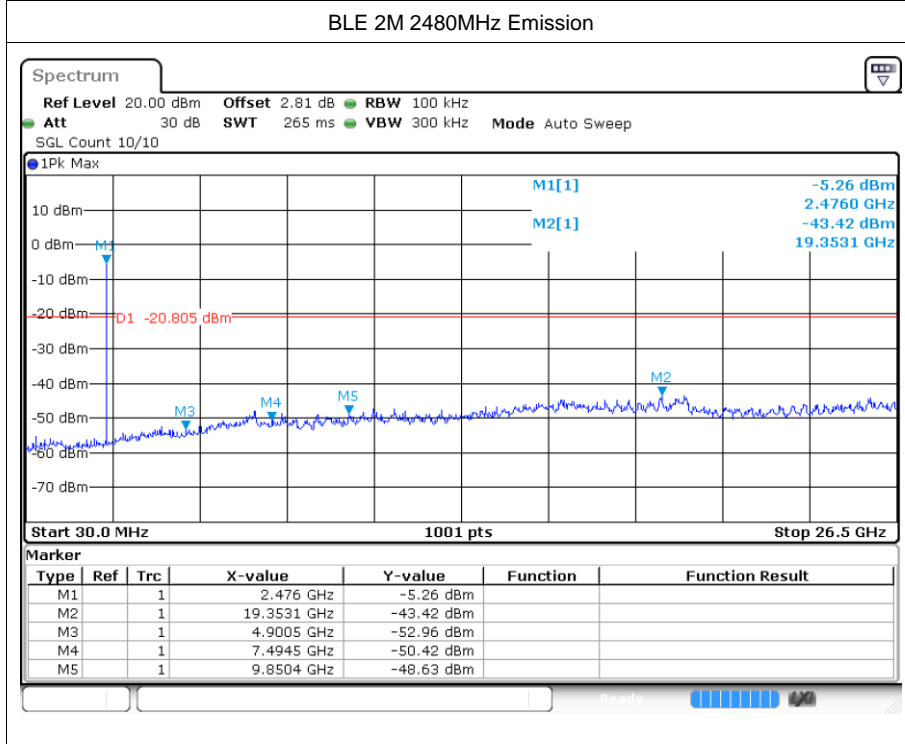
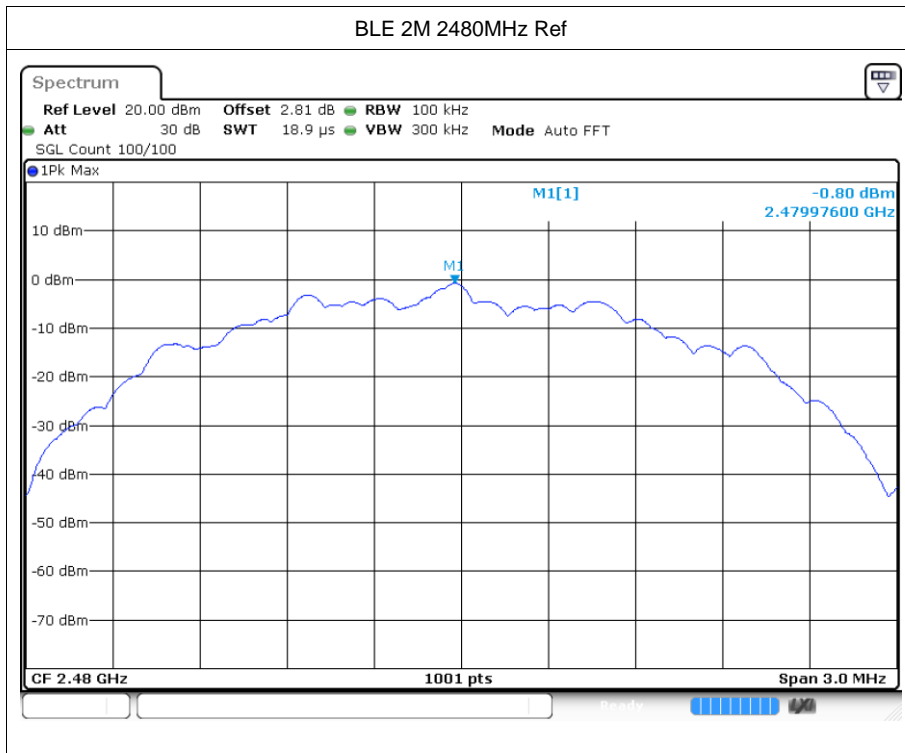














## 7 Restrict Band

### 7.1 Test Result

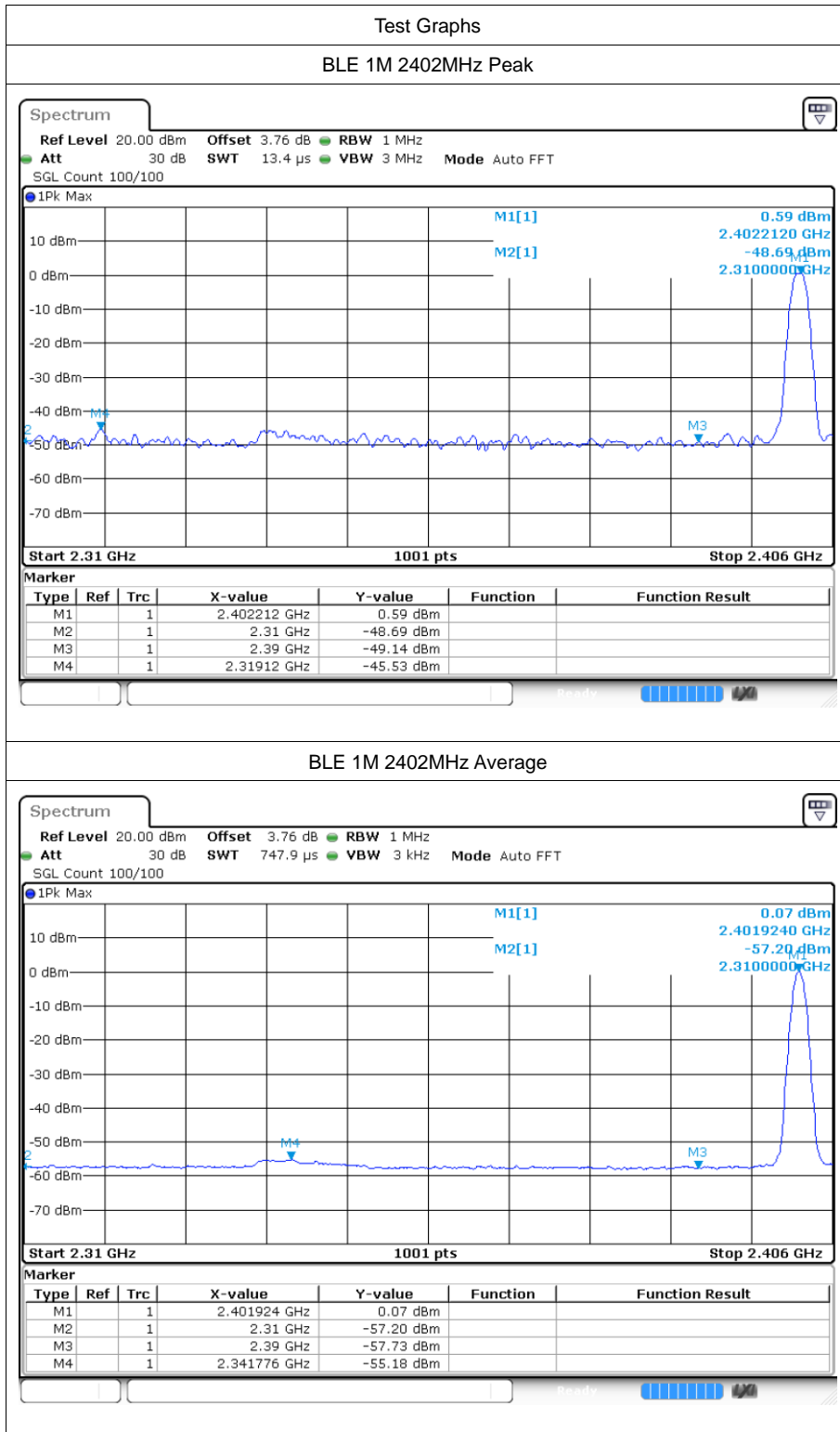
Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
BLE 1M	2402	2310	-48.69	2	48.57	Peak	74	Pass
BLE 1M	2402	2310	-57.19	2	40.07	Average	54	Pass
BLE 1M	2402	2319.12	-45.53	2	51.73	Peak	74	Pass
BLE 1M	2402	2341.776	-55.17	2	42.09	Average	54	Pass
BLE 1M	2402	2390	-49.14	2	48.12	Peak	74	Pass
BLE 1M	2402	2390	-57.73	2	39.53	Average	54	Pass
BLE 1M	2480	2483.5	-48.07	2	49.19	Peak	74	Pass
BLE 1M	2480	2483.5	-55.89	2	41.37	Average	54	Pass
BLE 1M	2480	2487.28	-43.6	2	53.66	Peak	74	Pass
BLE 1M	2480	2486.32	-55.71	2	41.55	Average	54	Pass
BLE 1M	2480	2500	-48.61	2	48.65	Peak	74	Pass
BLE 1M	2480	2500	-56.71	2	40.55	Average	54	Pass
BLE 2M	2402	2310	-49.34	2	47.92	Peak	74	Pass
BLE 2M	2402	2310	-56.8	2	40.46	Average	54	Pass
BLE 2M	2402	2384.976	-45.88	2	51.38	Peak	74	Pass
BLE 2M	2402	2341.296	-54.76	2	42.5	Average	54	Pass
BLE 2M	2402	2390	-49.46	2	47.8	Peak	74	Pass
BLE 2M	2402	2390	-56.75	2	40.51	Average	54	Pass

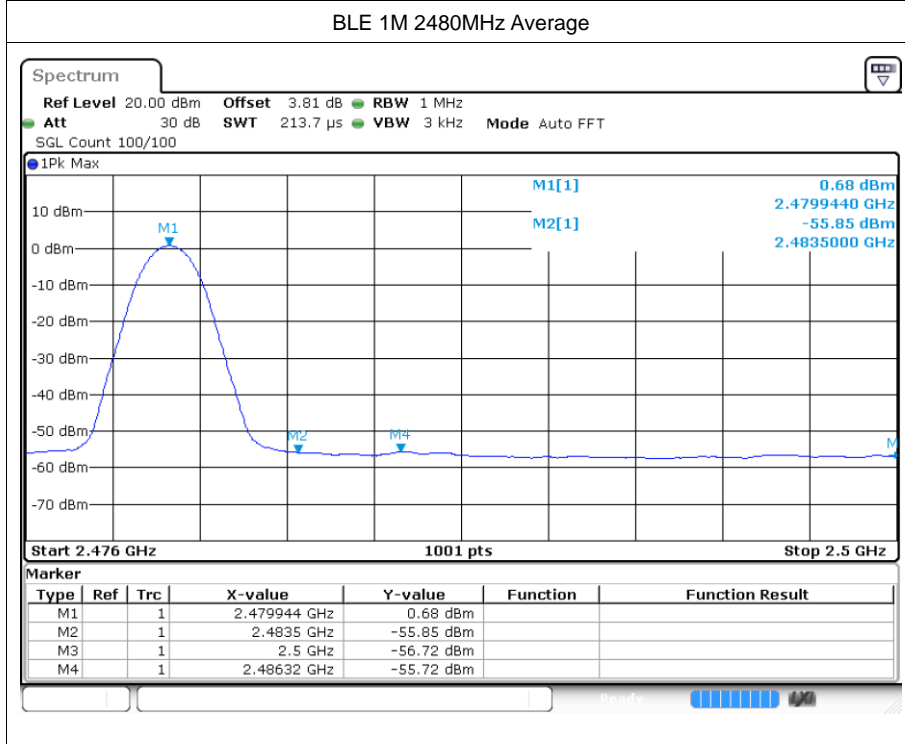
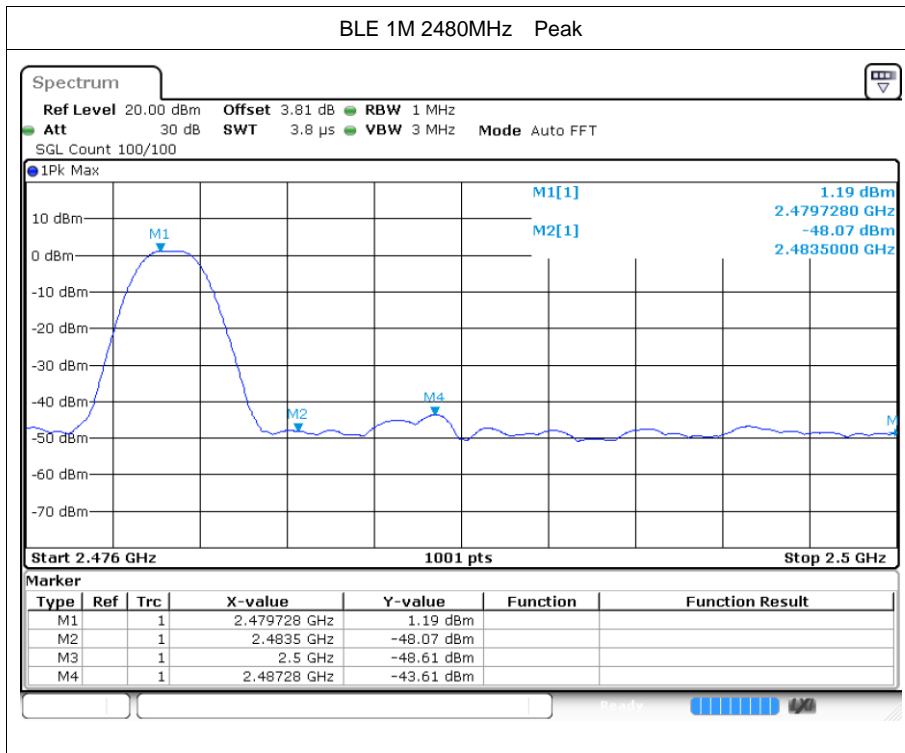


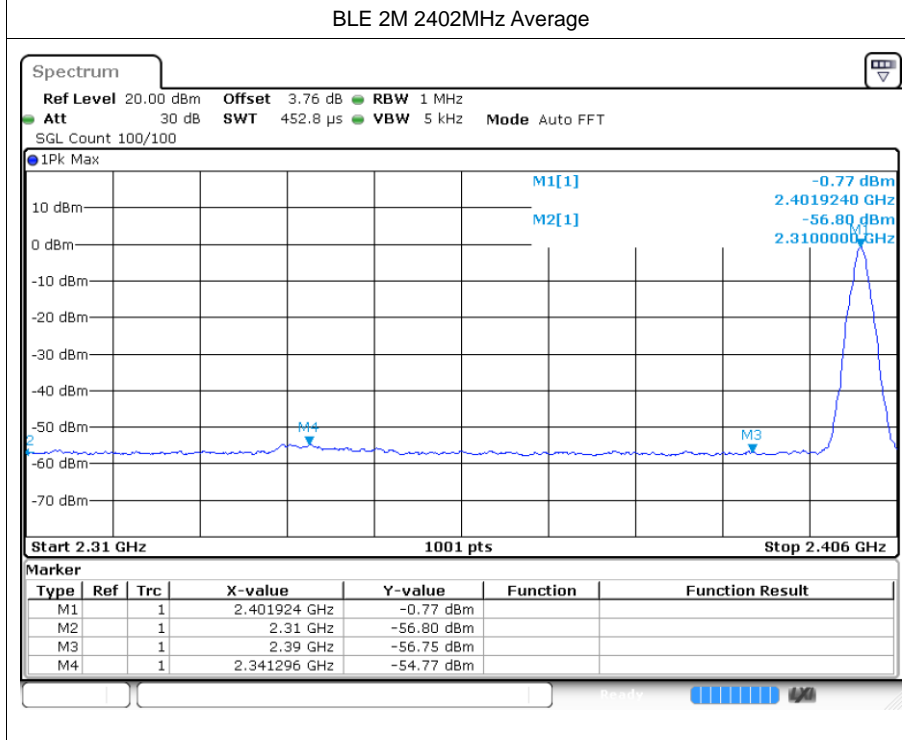
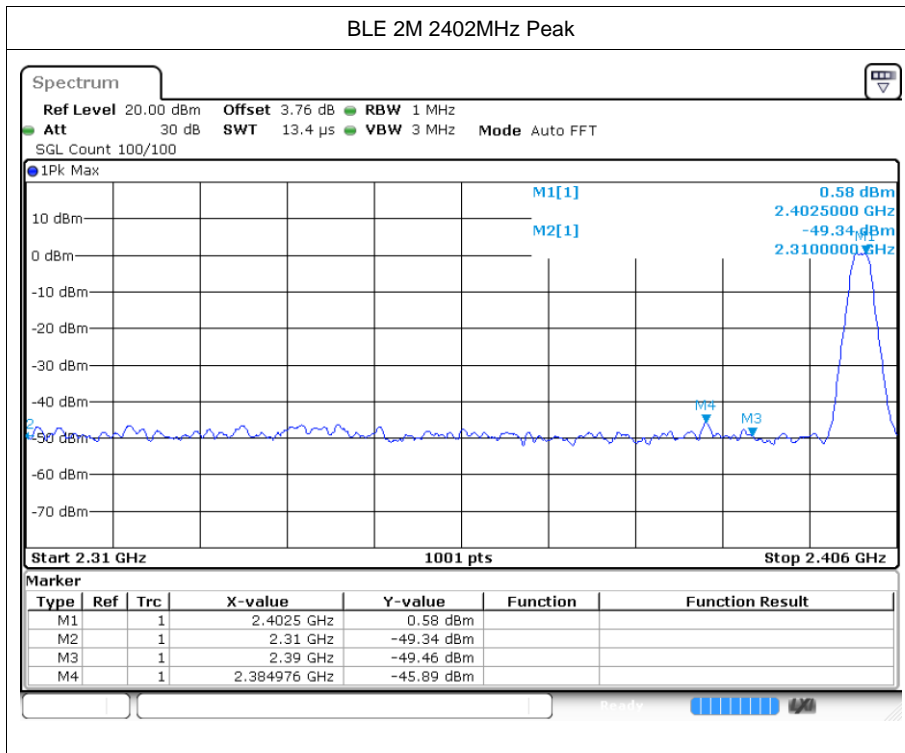
2M								
BLE 2M	2480	2483.5	-47.9	2	49.36	Peak	74	Pass
BLE 2M	2480	2483.5	-52.76	2	44.5	Average	54	Pass
BLE 2M	2480	2487.448	-44.07	2	53.19	Peak	74	Pass
BLE 2M	2480	2483.512	-52.76	2	44.5	Average	54	Pass
BLE 2M	2480	2500	-45.99	2	51.27	Peak	74	Pass
BLE 2M	2480	2500	-56.9	2	40.36	Average	54	Pass

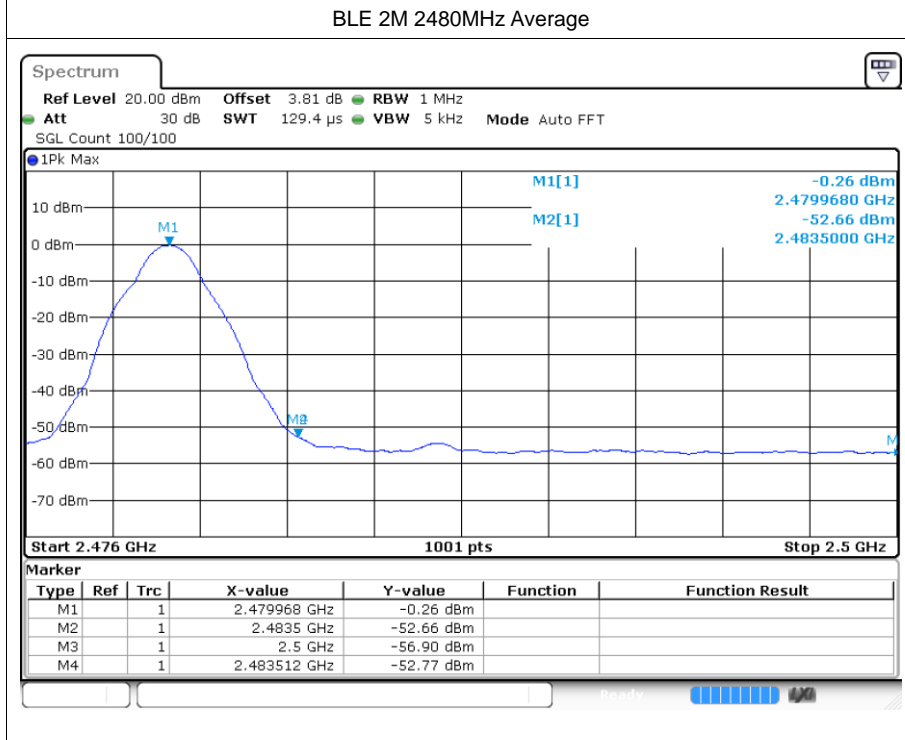
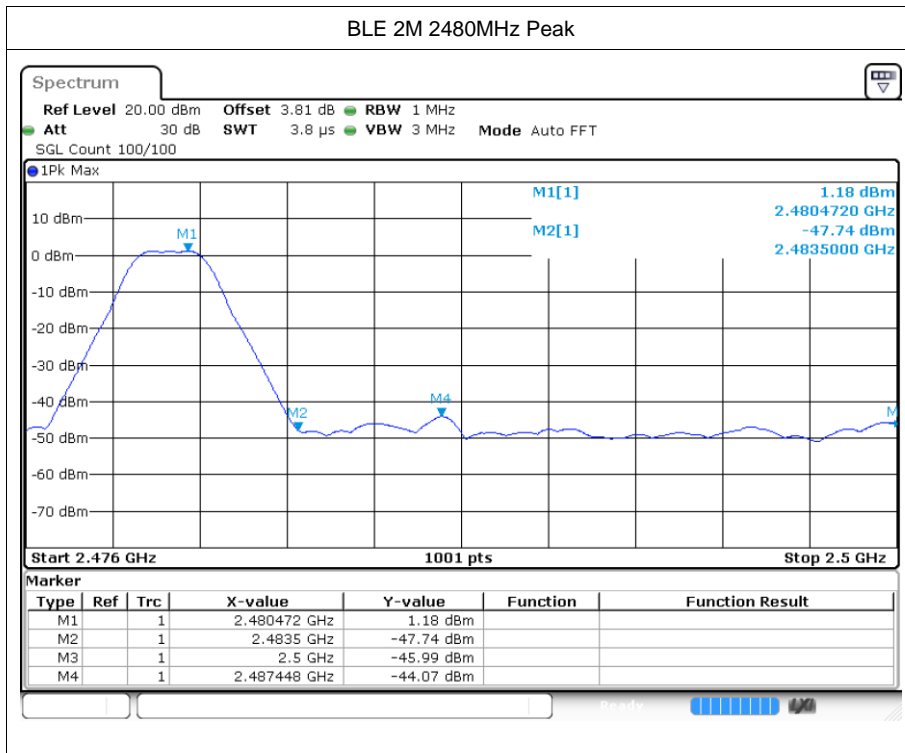


## 7.2 Test Graphs









---The End---