Appendix B

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

Product Name: MOUSE

Trade Mark: N/A

Test Model: X9RBWACKEYCB

Environmental Conditions

Temperature:	25.6° 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

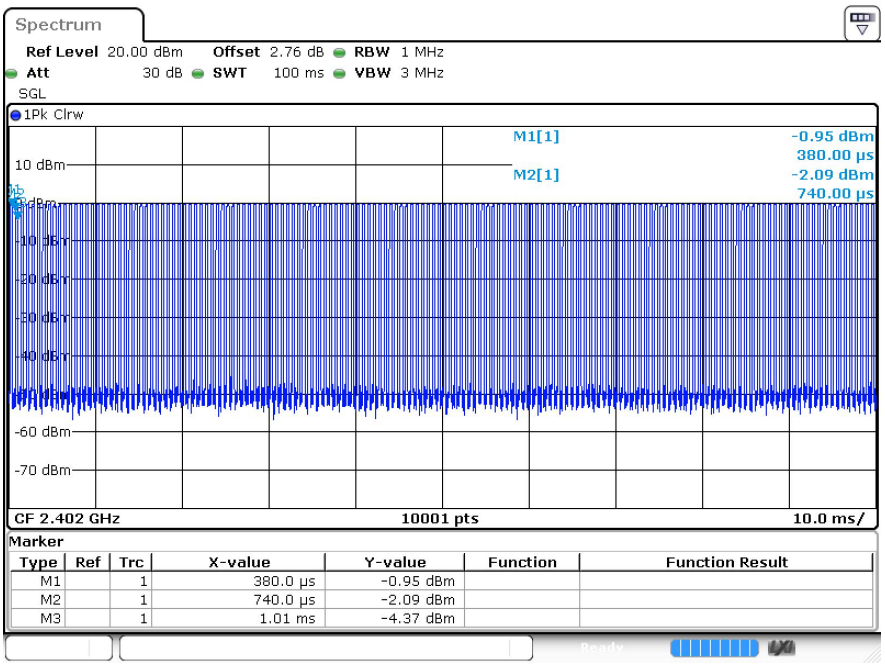
1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
BLE 1M	2402	44.8	3.49	3.7
BLE 1M	2440	44.81	3.49	3.7
BLE 1M	2480	44	3.57	3.7
BLE 2M	2402	26.41	5.78	6.25
BLE 2M	2440	27.2	5.65	6.25
BLE 2M	2480	27.2	5.65	6.25

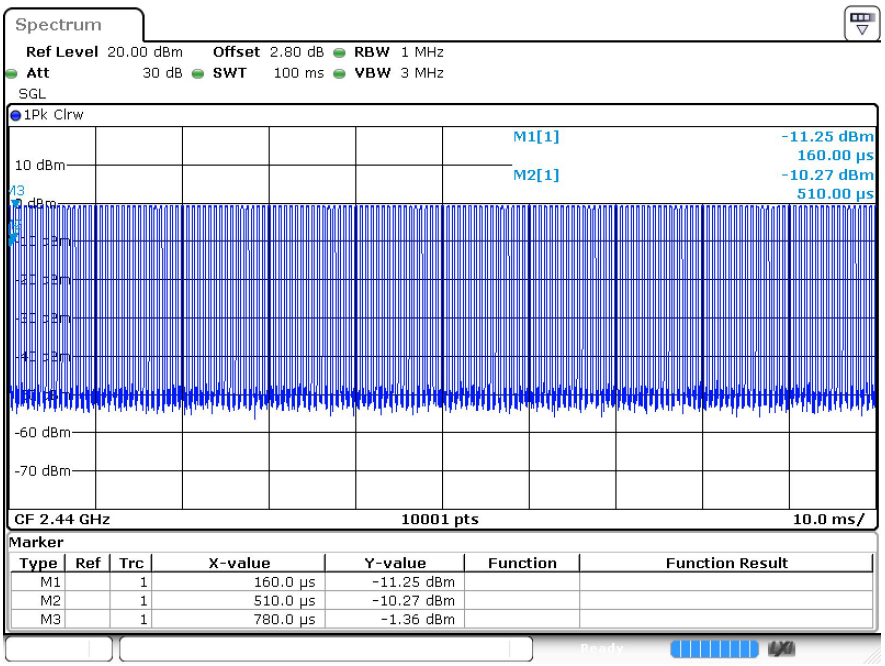
1.2 Test Graphs

Test Graphs

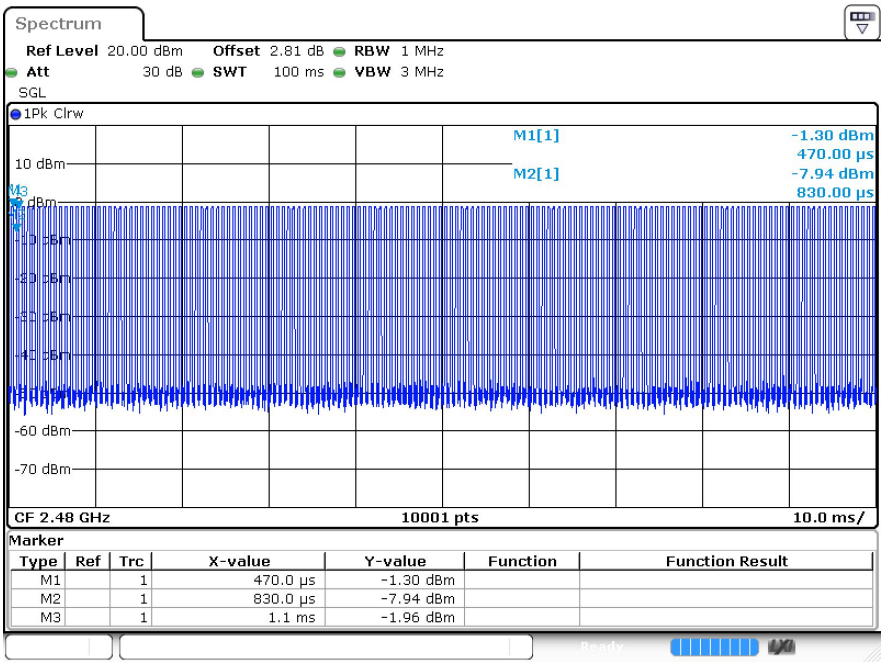
BLE 1M 2402MHz



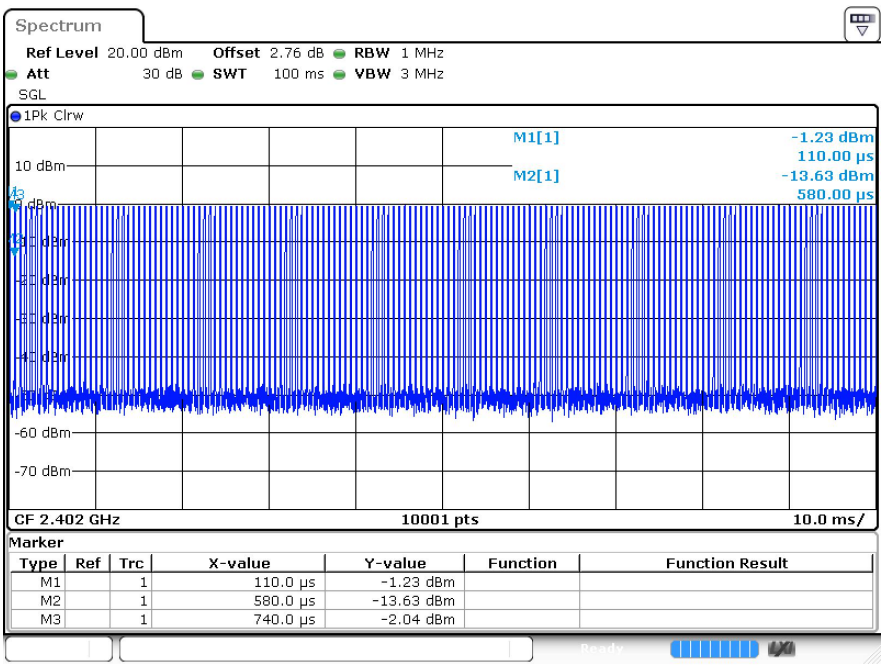
BLE 1M 2440MHz



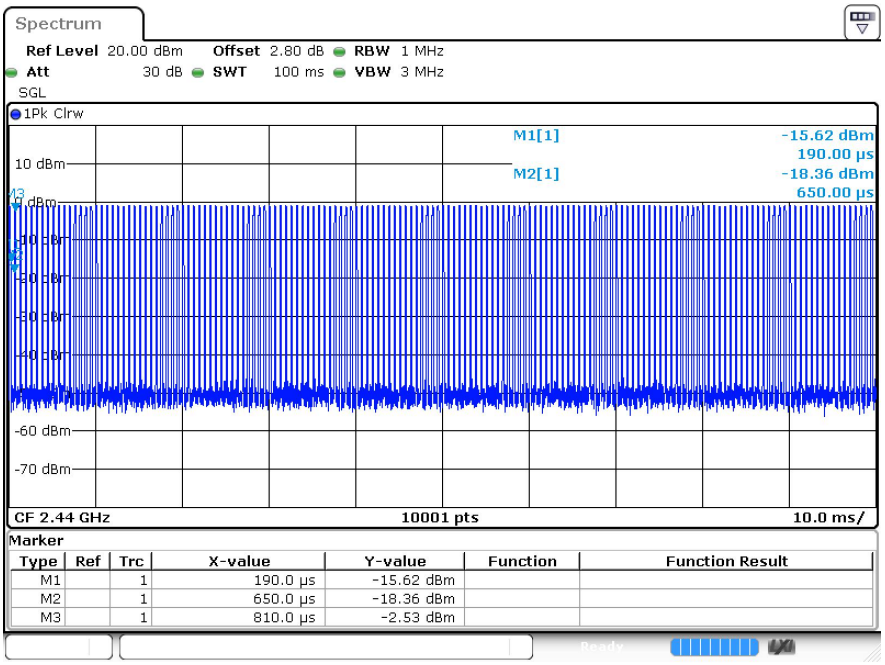
BLE 1M 2480MHz



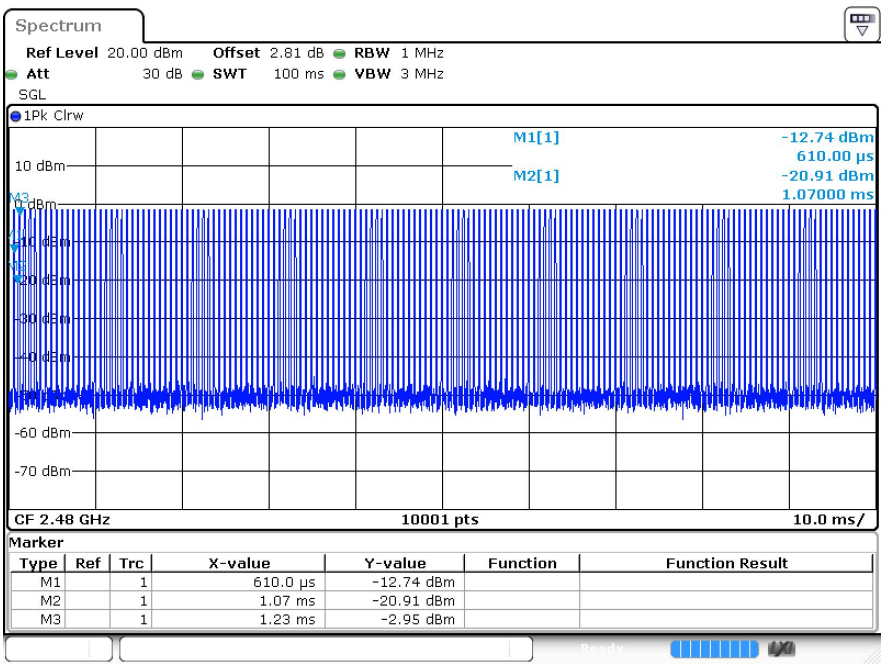
BLE 2M 2402MHz



BLE 2M 2440MHz



BLE 2M 2480MHz



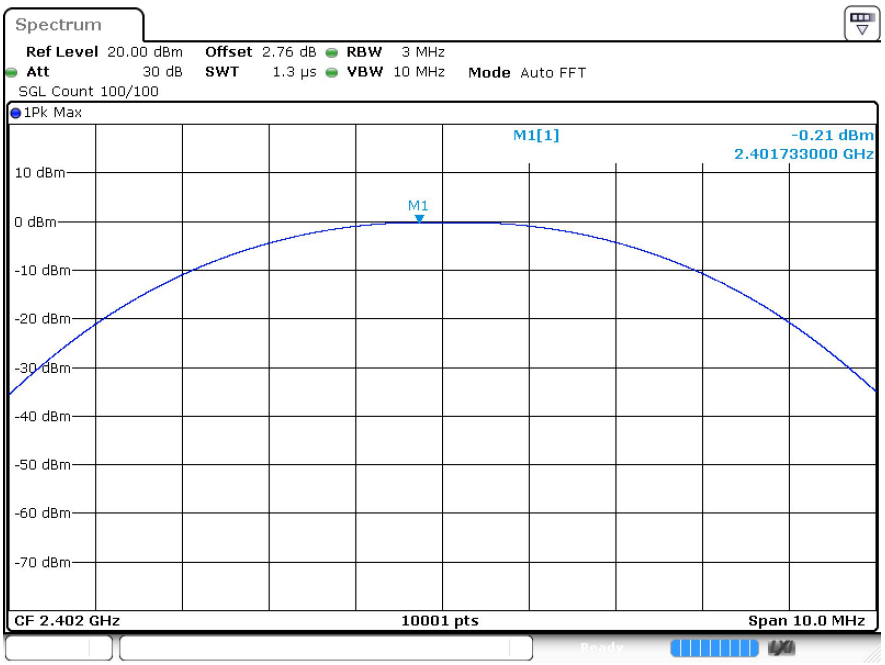
2 Maximum Conducted Output Power

2.1 Test Result

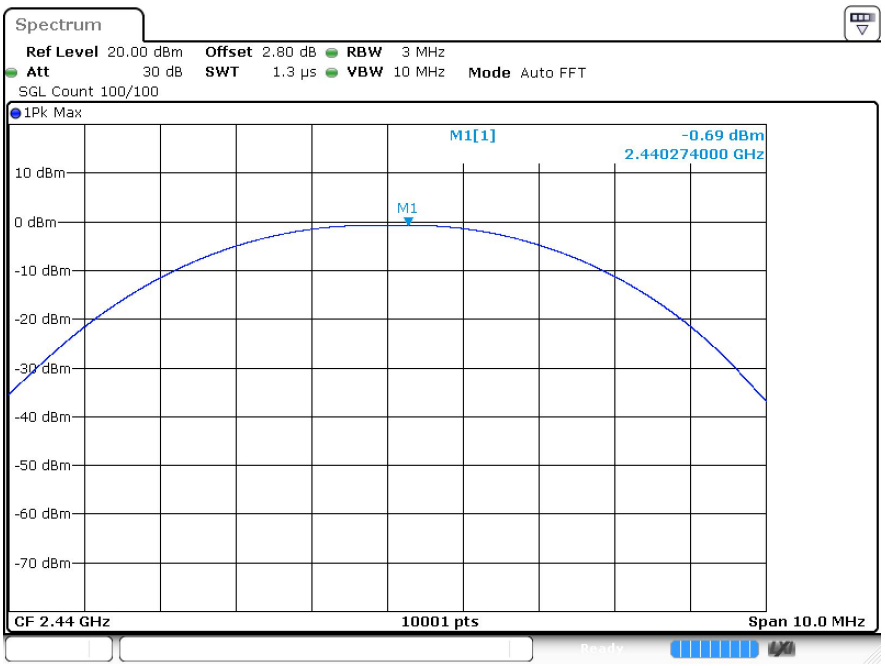
Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	-0.21	30	Pass
BLE 1M	2440	-0.69	30	Pass
BLE 1M	2480	-1.15	30	Pass
BLE 2M	2402	-0.2	30	Pass
BLE 2M	2440	-0.65	30	Pass
BLE 2M	2480	-1.17	30	Pass

2.2 Test Graphs

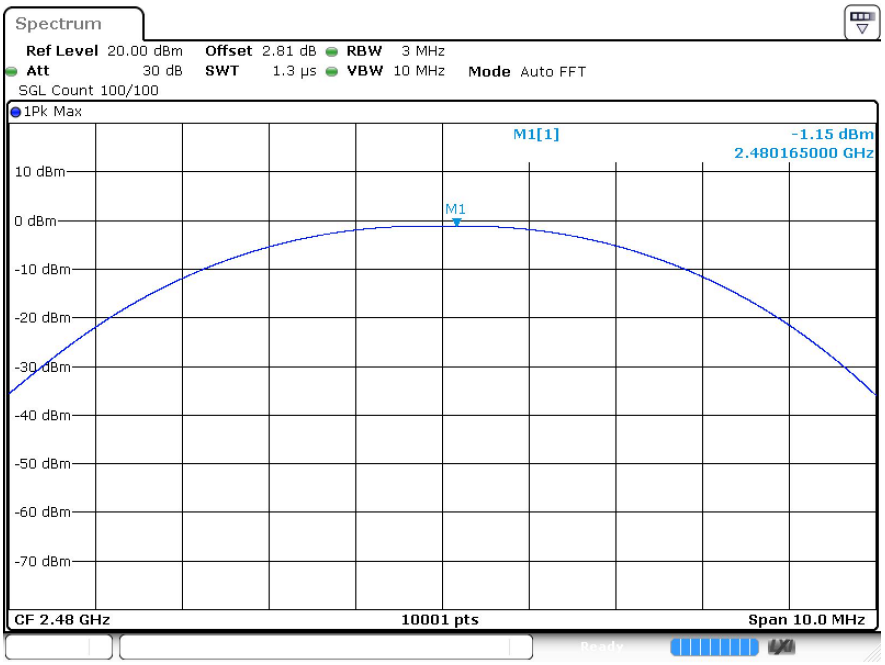
Test Graphs
BLE 1M 2402MHz



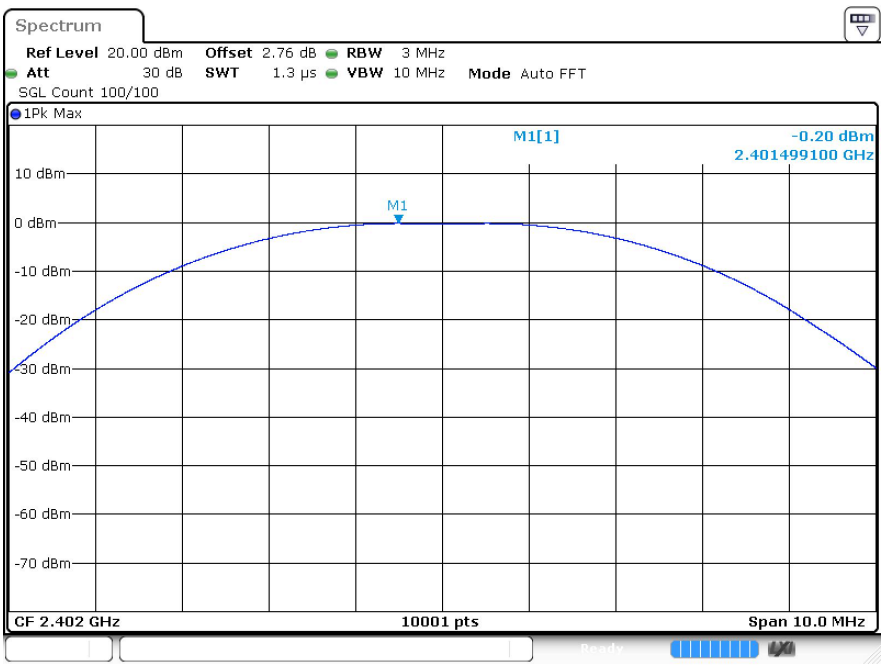
BLE 1M 2440MHz



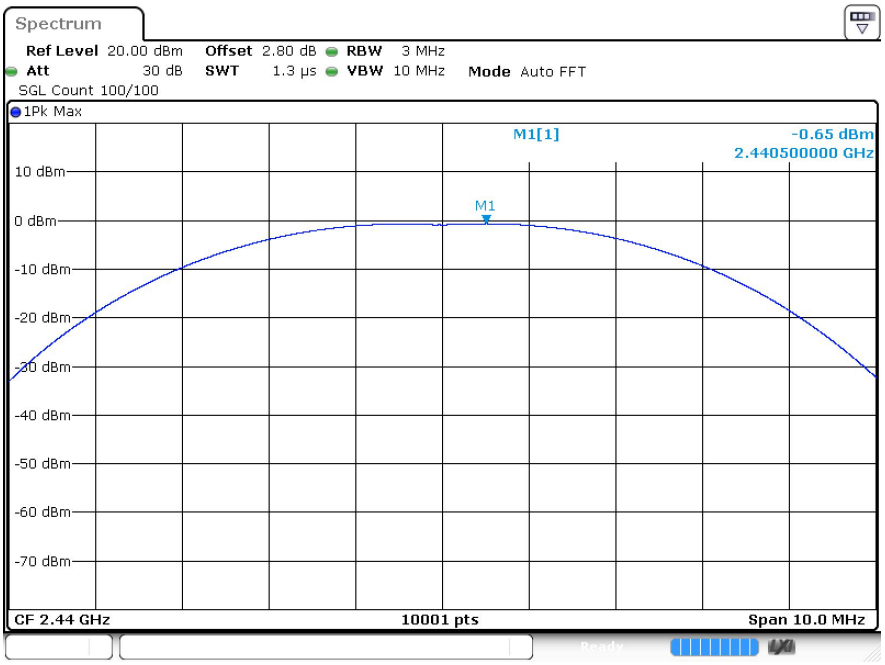
BLE 1M 2480MHz



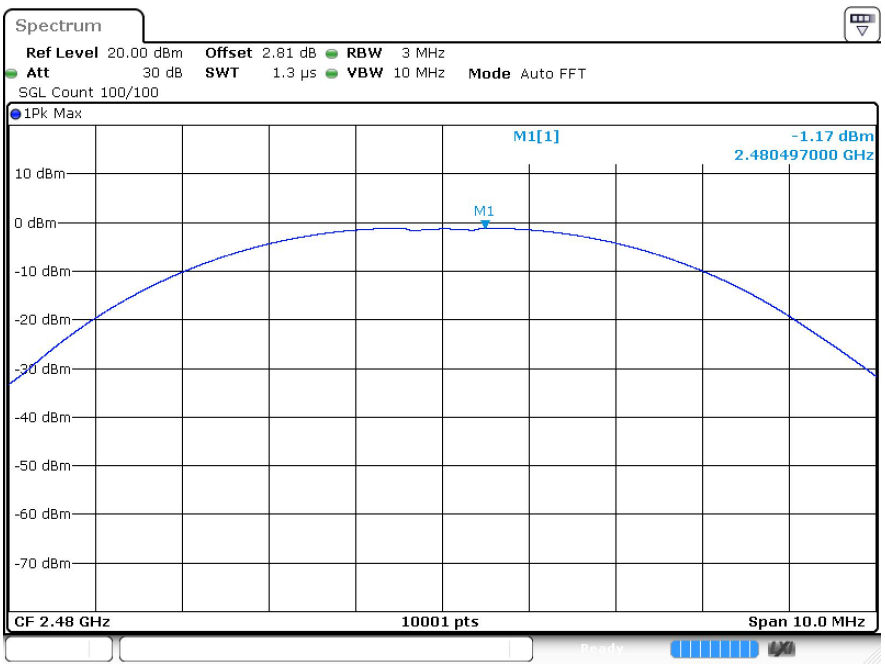
BLE 2M 2402MHz



BLE 2M 2440MHz



BLE 2M 2480MHz



3 -6dB Bandwidth

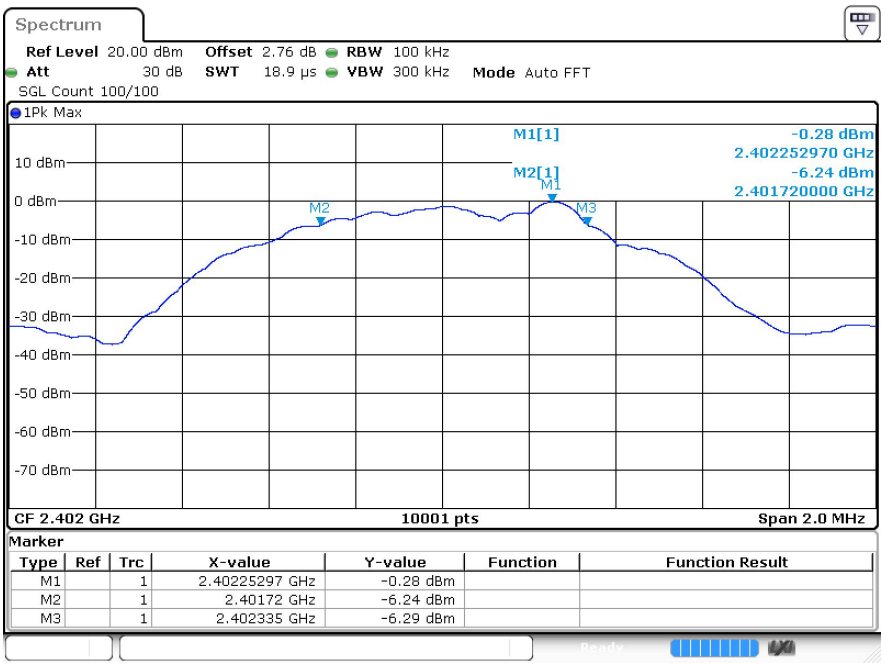
3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.615	0.5	Pass
BLE 1M	2440	0.618	0.5	Pass
BLE 1M	2480	0.647	0.5	Pass
BLE 2M	2402	0.924	0.5	Pass
BLE 2M	2440	1.121	0.5	Pass
BLE 2M	2480	1.407	0.5	Pass

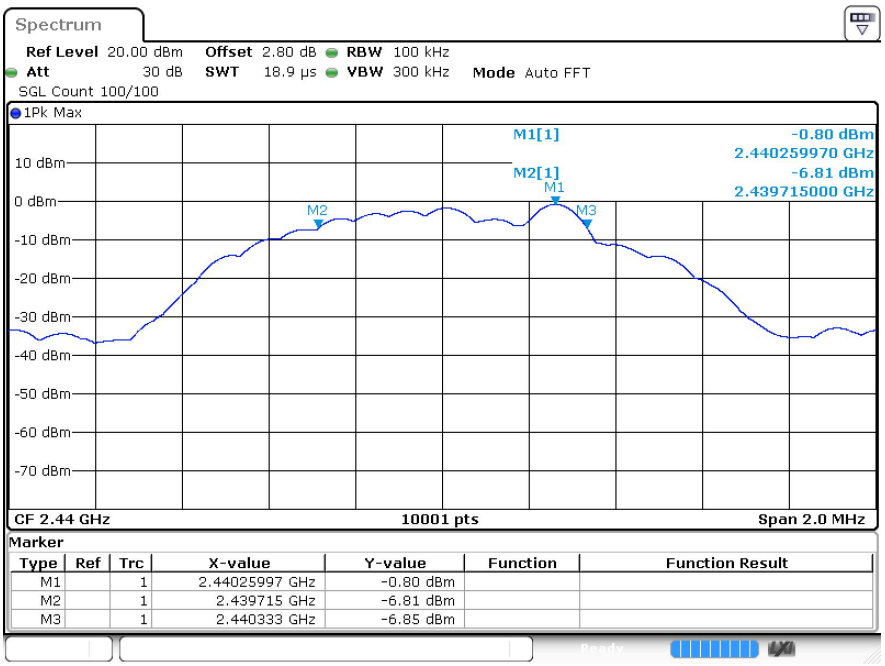
3.2 Test Graphs

Test Graphs

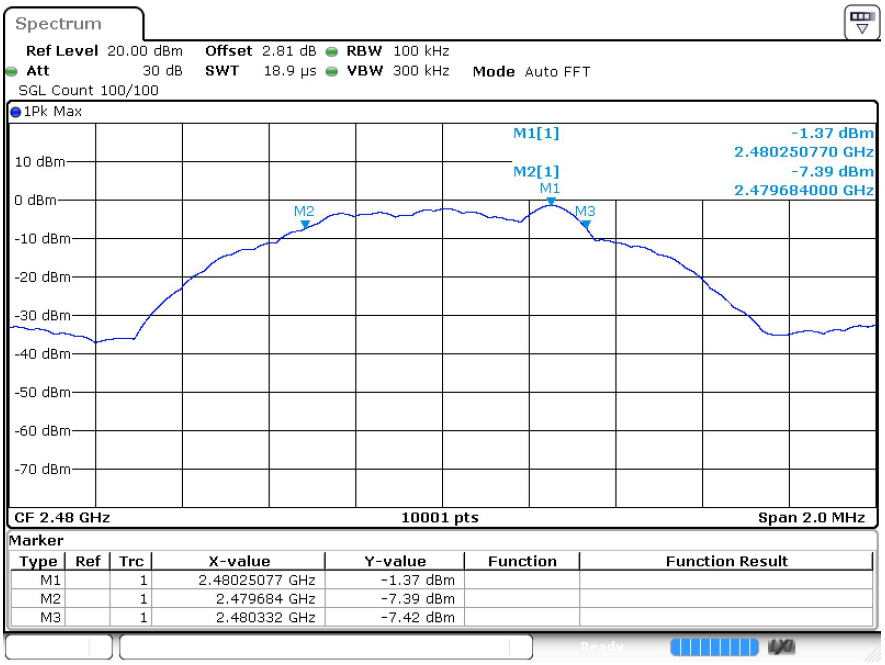
BLE 1M 2402MHz



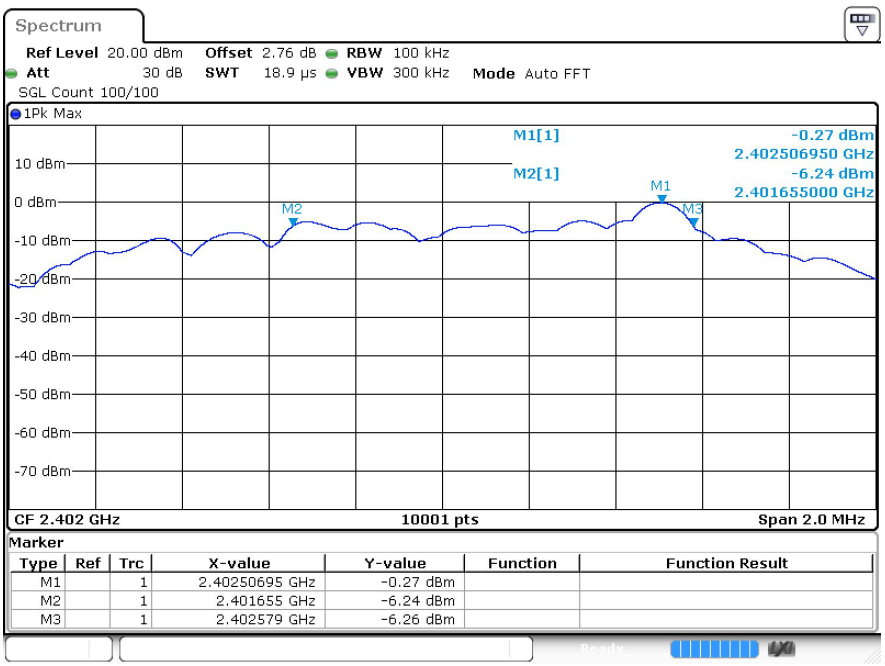
BLE 1M 2440MHz



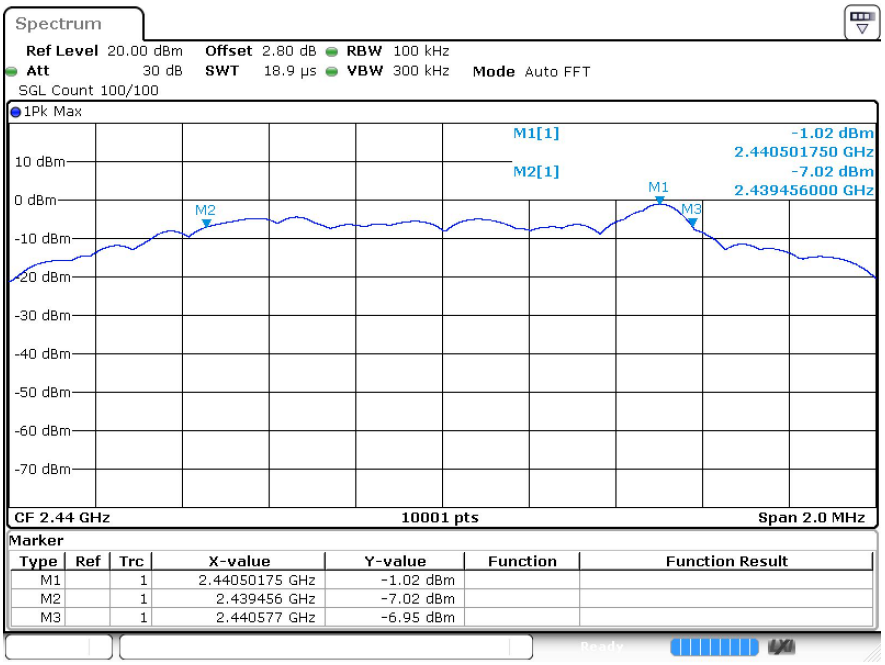
BLE 1M 2480MHz



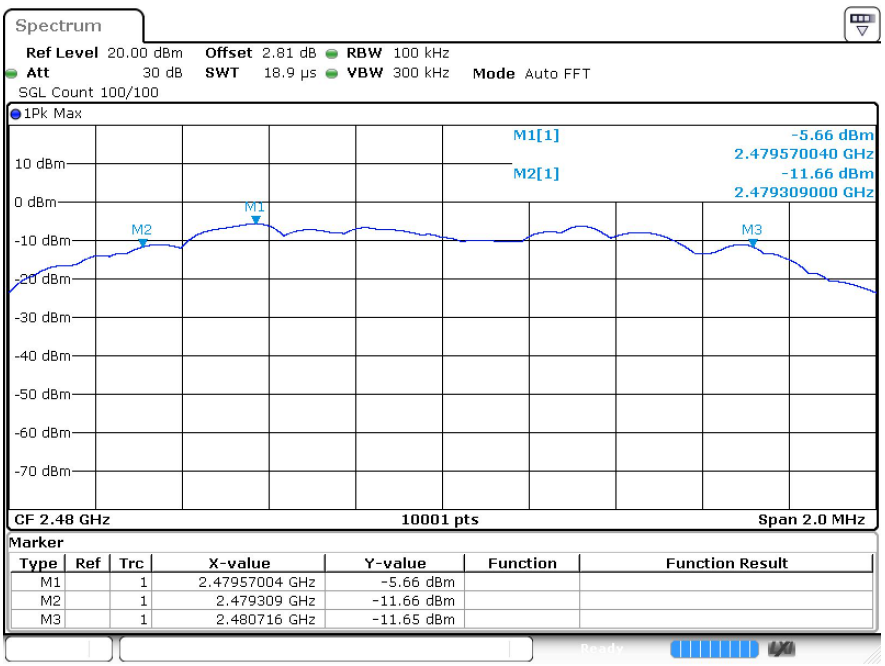
BLE 2M 2402MHz



BLE 2M 2440MHz



BLE 2M 2480MHz



4 Maximum Power Spectral Density Level

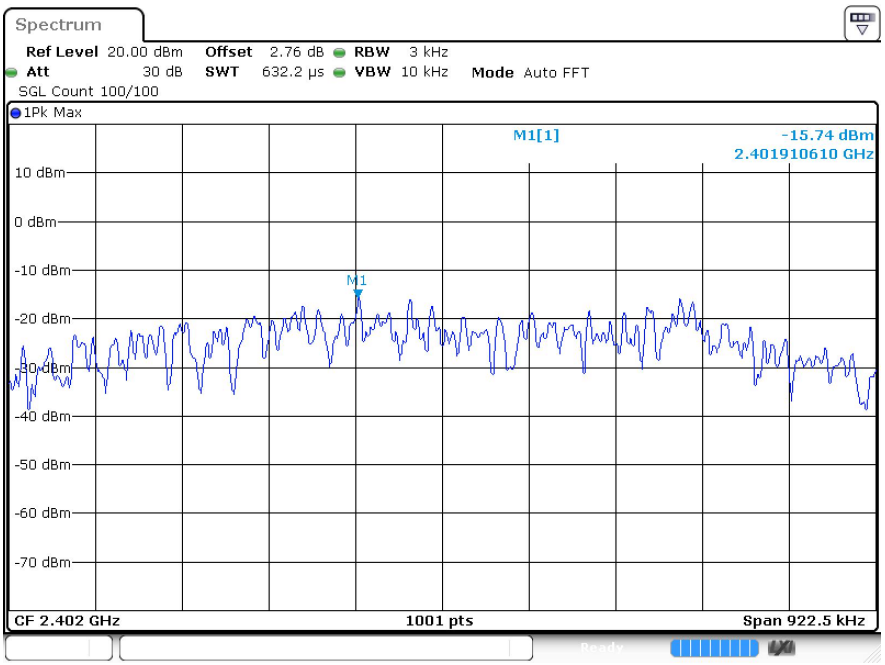
4.1 Test Result

Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-15.74	≤8	Pass
BLE 1M	2440	-16.2	≤8	Pass
BLE 1M	2480	-16.55	≤8	Pass
BLE 2M	2402	-17.15	≤8	Pass
BLE 2M	2440	-17.52	≤8	Pass
BLE 2M	2480	-17.66	≤8	Pass

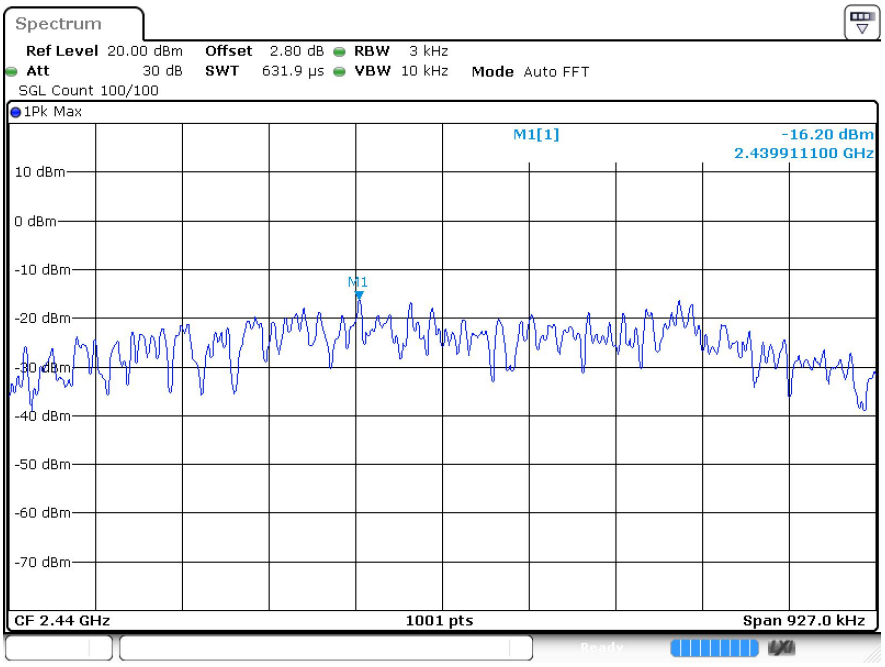
4.2 Test Graphs

Test Graphs

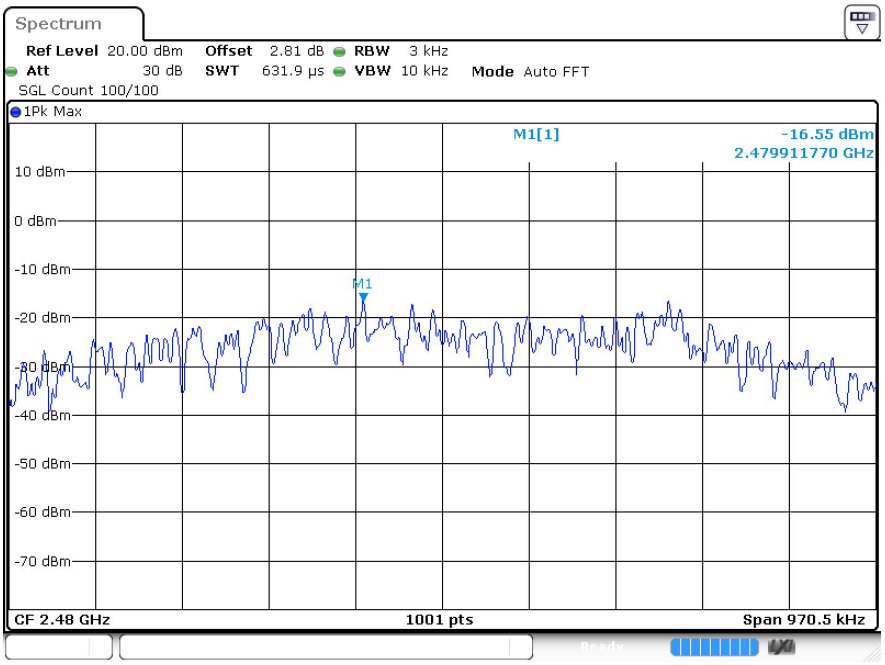
BLE 1M 2402MHz



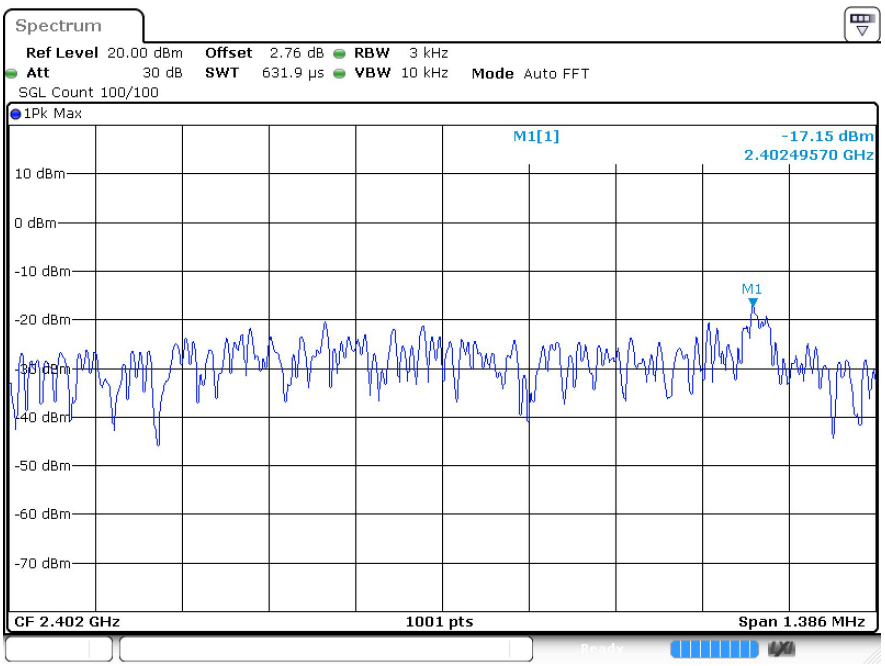
BLE 1M 2440MHz



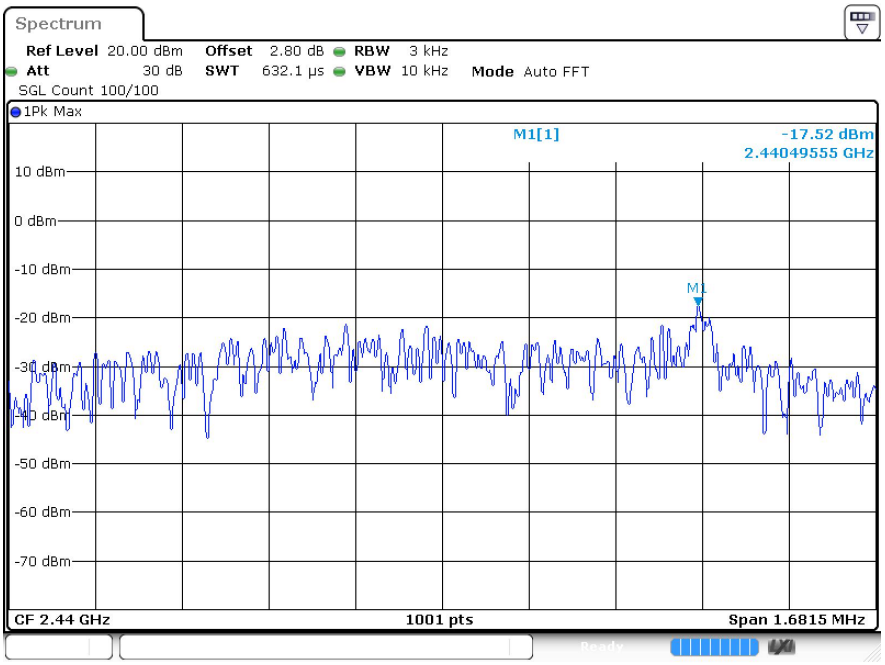
BLE 1M 2480MHz



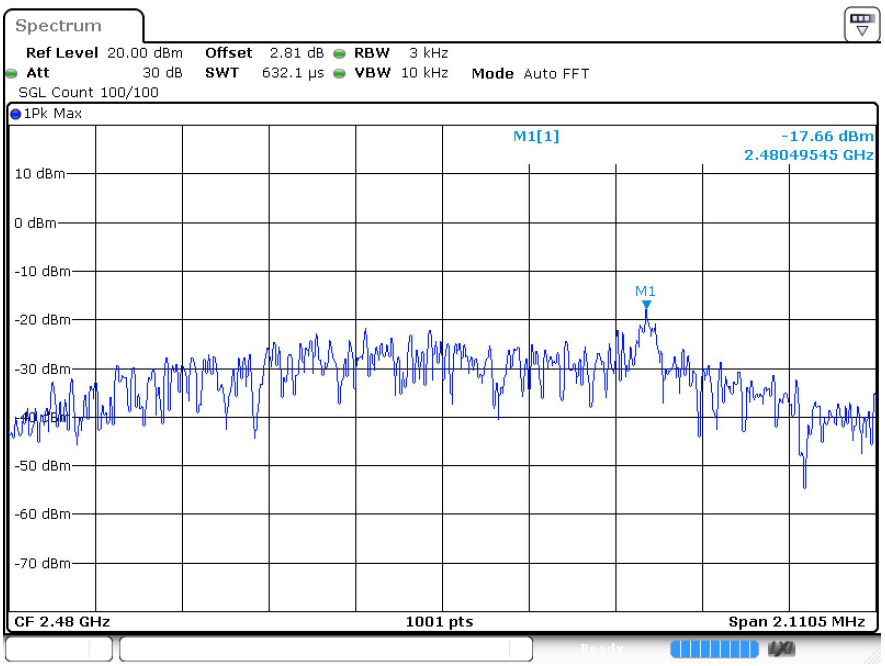
BLE 2M 2402MHz



BLE 2M 2440MHz



BLE 2M 2480MHz



5 Band Edge

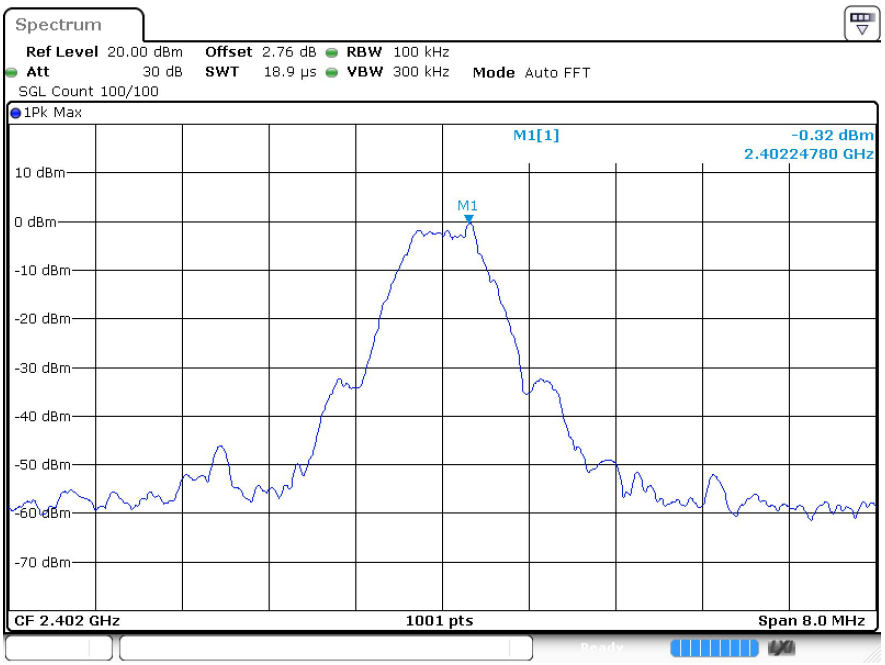
5.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-54.97	-20	Pass
BLE 1M	2480	-53.64	-20	Pass
BLE 2M	2402	-55.79	-20	Pass
BLE 2M	2480	-53.96	-20	Pass

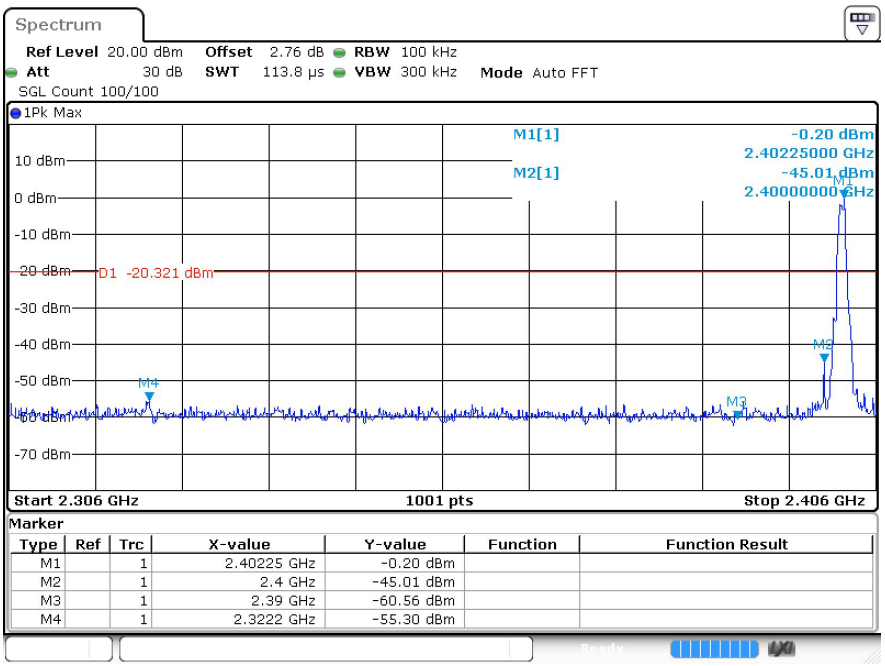
5.2 Test Graphs

Test Graphs

BLE 1M 2402MHz Ref



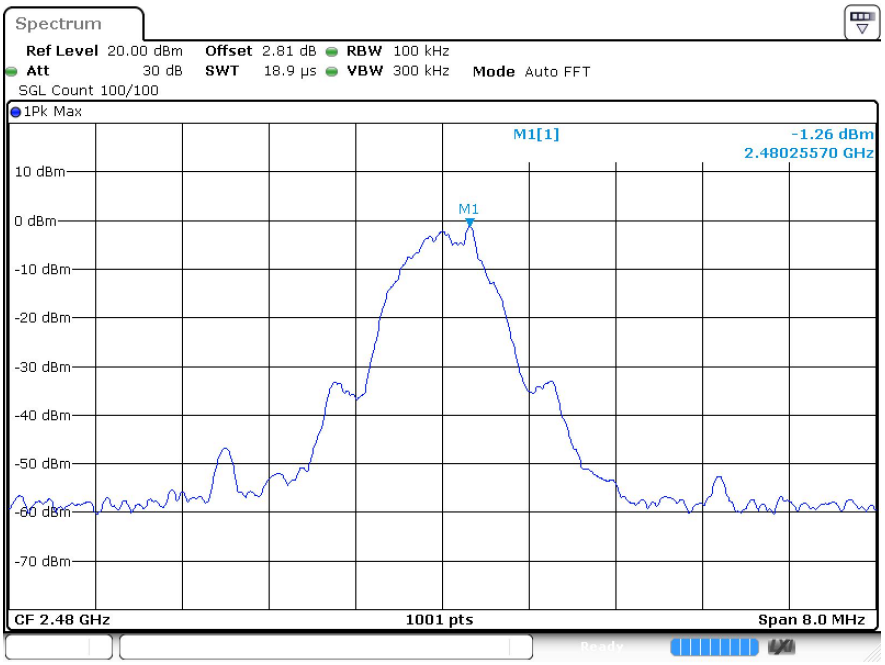
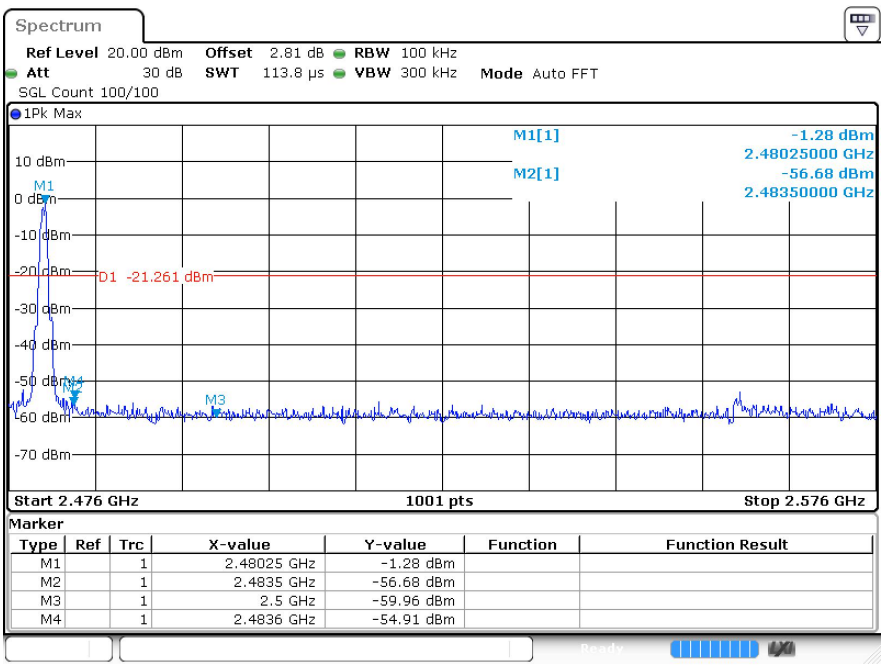
BLE 1M 2402MHz Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40225 GHz	-0.20 dBm		
M2		1	2.4 GHz	-45.01 dBm		
M3		1	2.39 GHz	-60.56 dBm		
M4		1	2.3222 GHz	-55.30 dBm		

BLE 1M 2480MHz Ref



BLE 1M 2480MHz Emission