



Appendix B

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

Product Name: 3rd Gen Waterproof Diving Case



Trade Mark: SHELLBOX

Test Model: Pro 3rd Gen-Pro Waterproof Diving Case

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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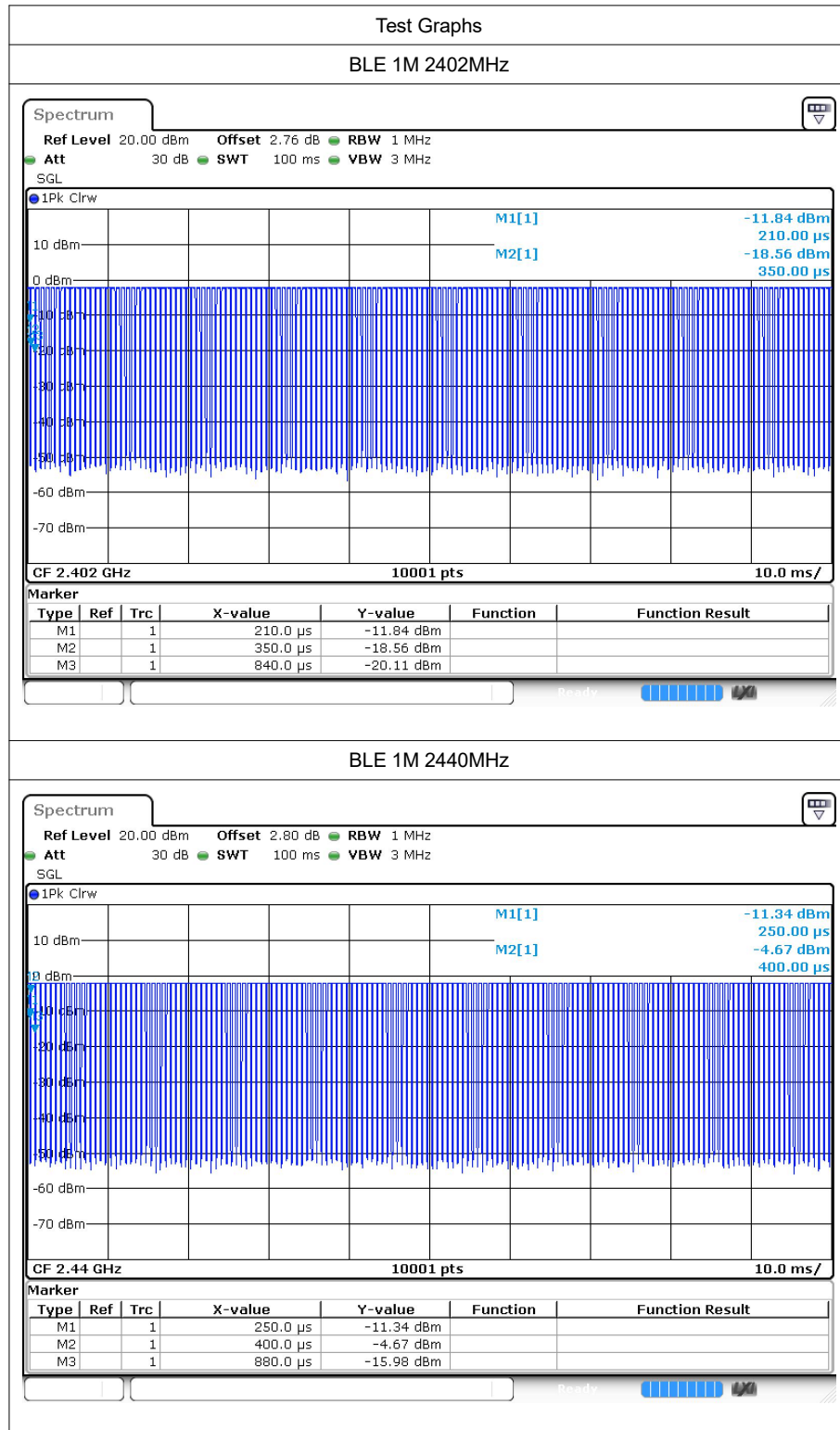


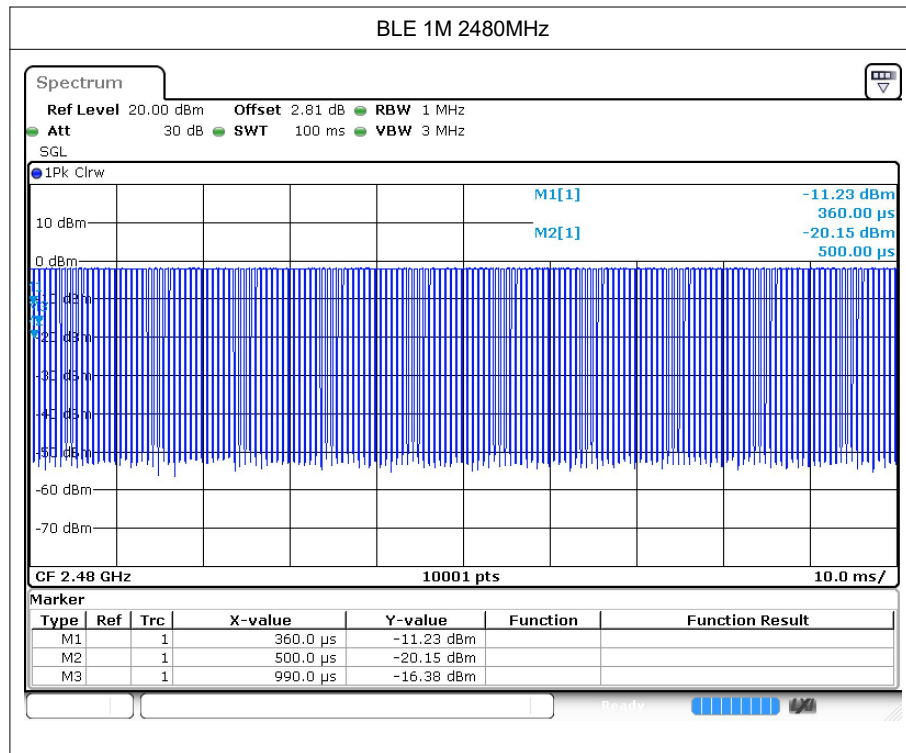
1 Duty Cycle

1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
BLE 1M	2402	78.47	1.05	2.04
BLE 1M	2440	78.89	1.03	2.08
BLE 1M	2480	78.6	1.05	2.04

1.2 Test Graphs





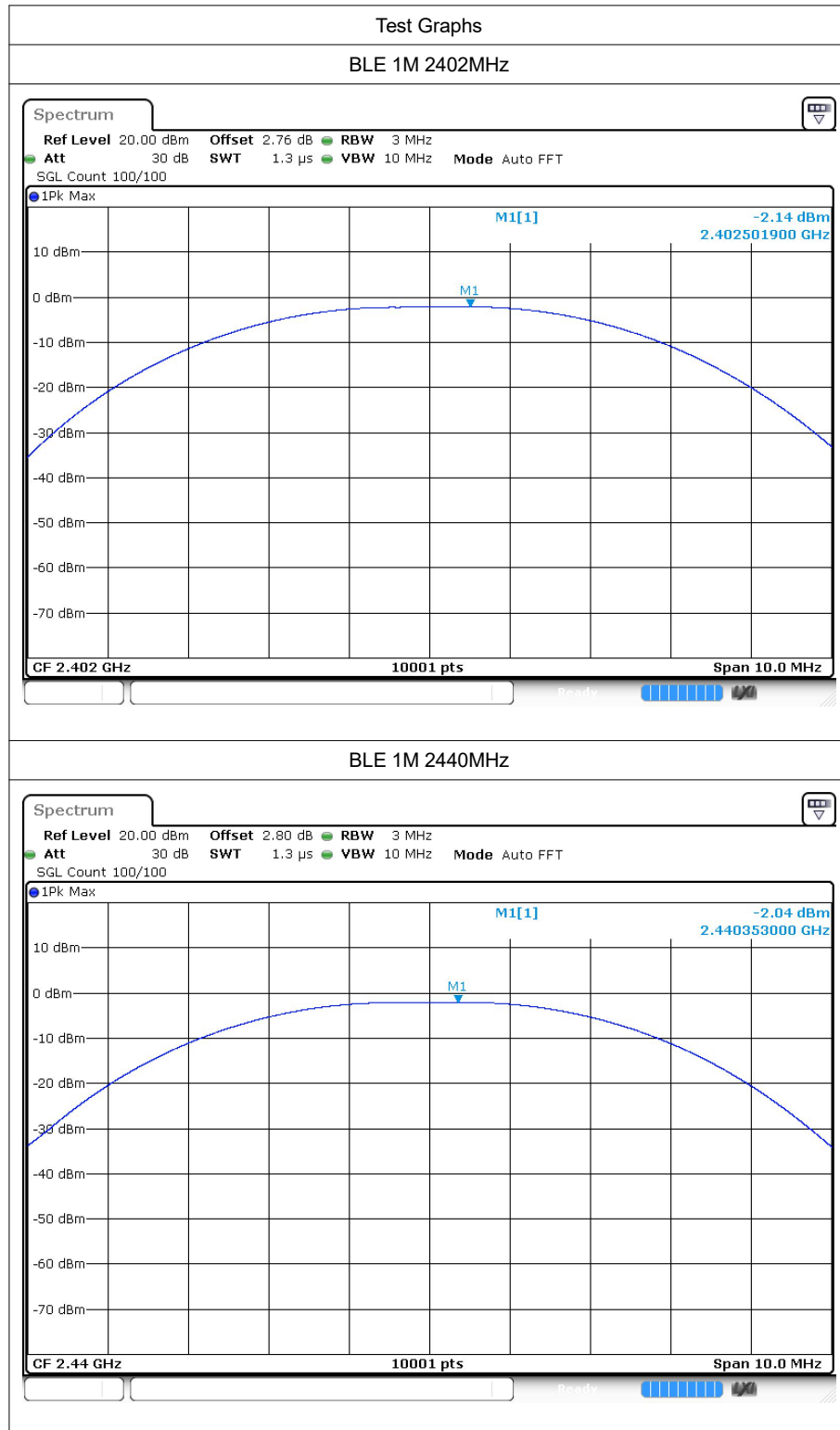


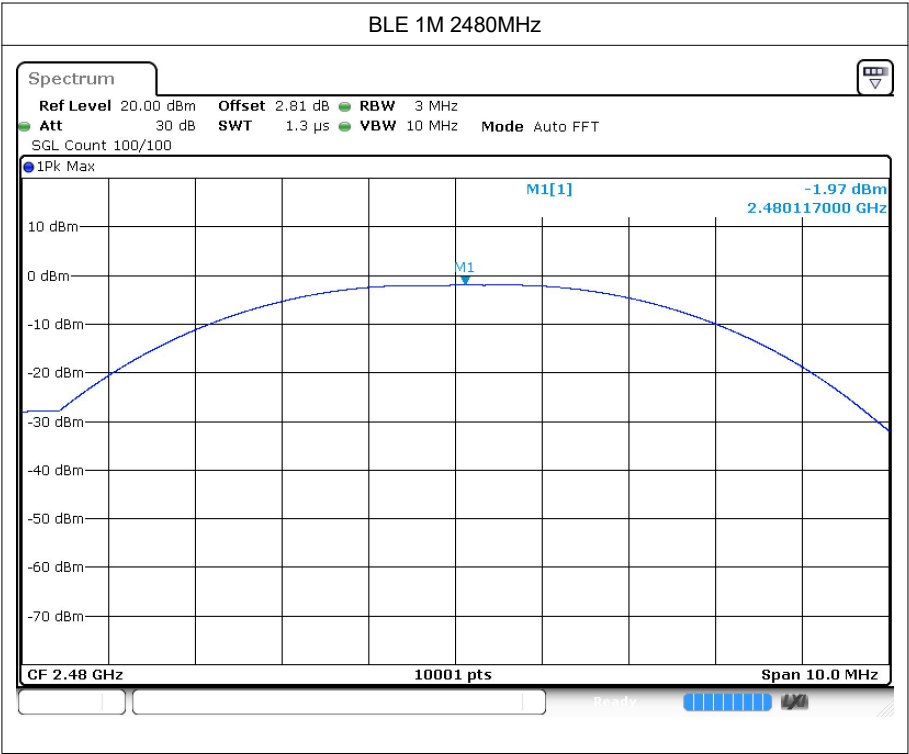
2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	-2.14	30	Pass
BLE 1M	2440	-2.04	30	Pass
BLE 1M	2480	-1.97	30	Pass

2.2 Test Graphs





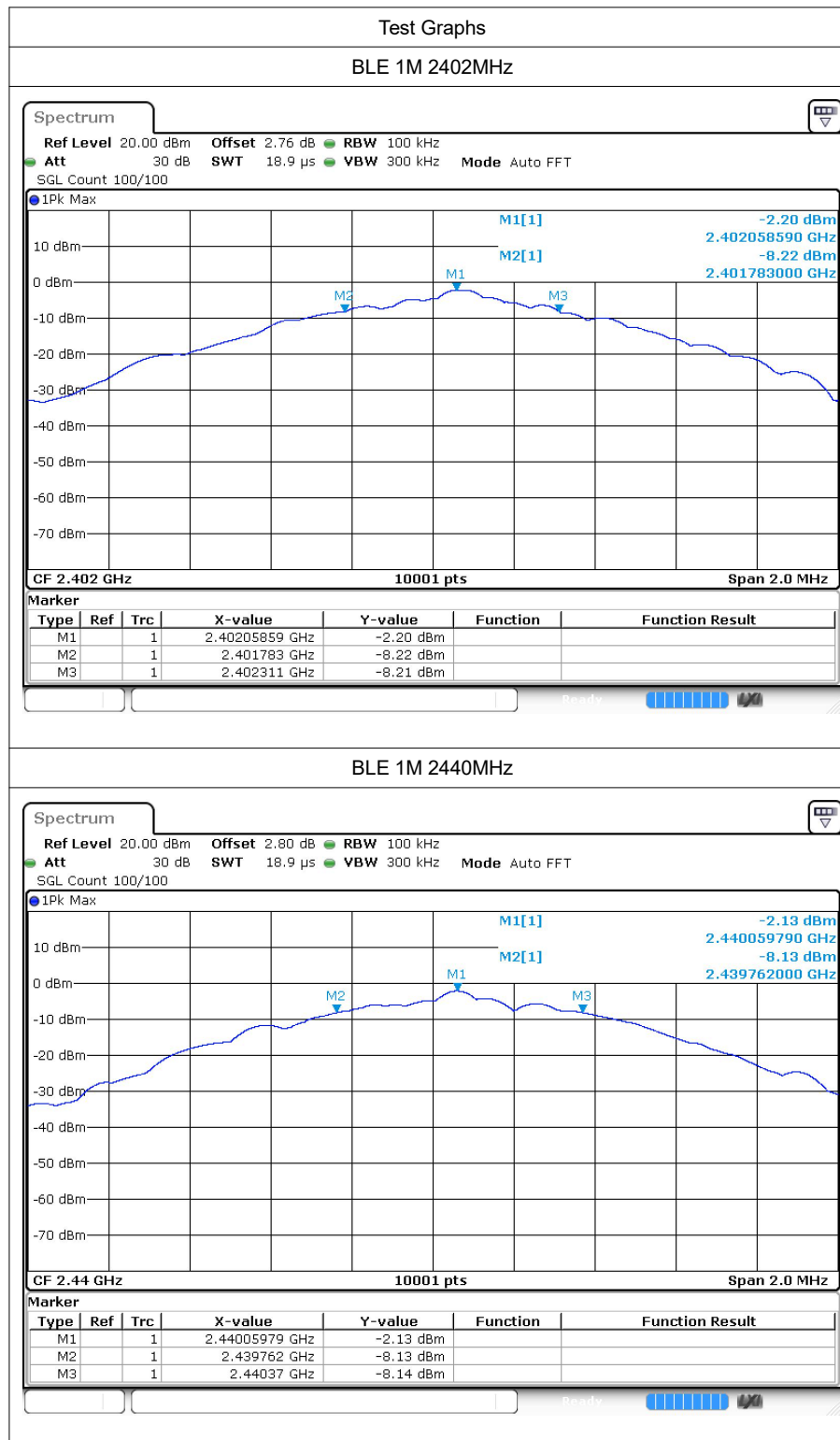


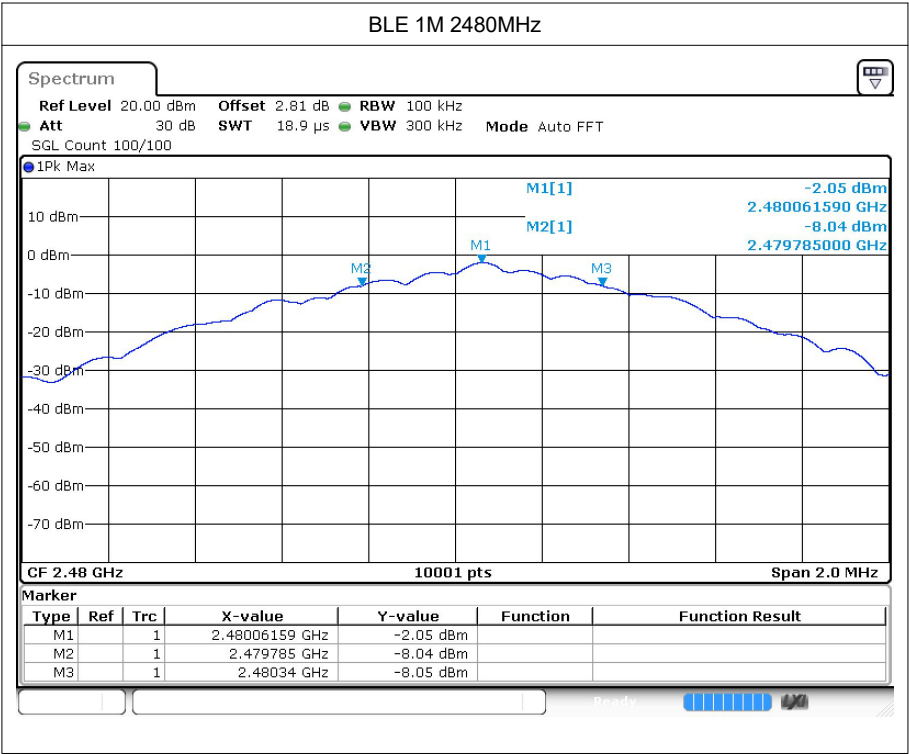
3 -6dB Bandwidth

3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.528	0.5	Pass
BLE 1M	2440	0.607	0.5	Pass
BLE 1M	2480	0.554	0.5	Pass

3.2 Test Graphs



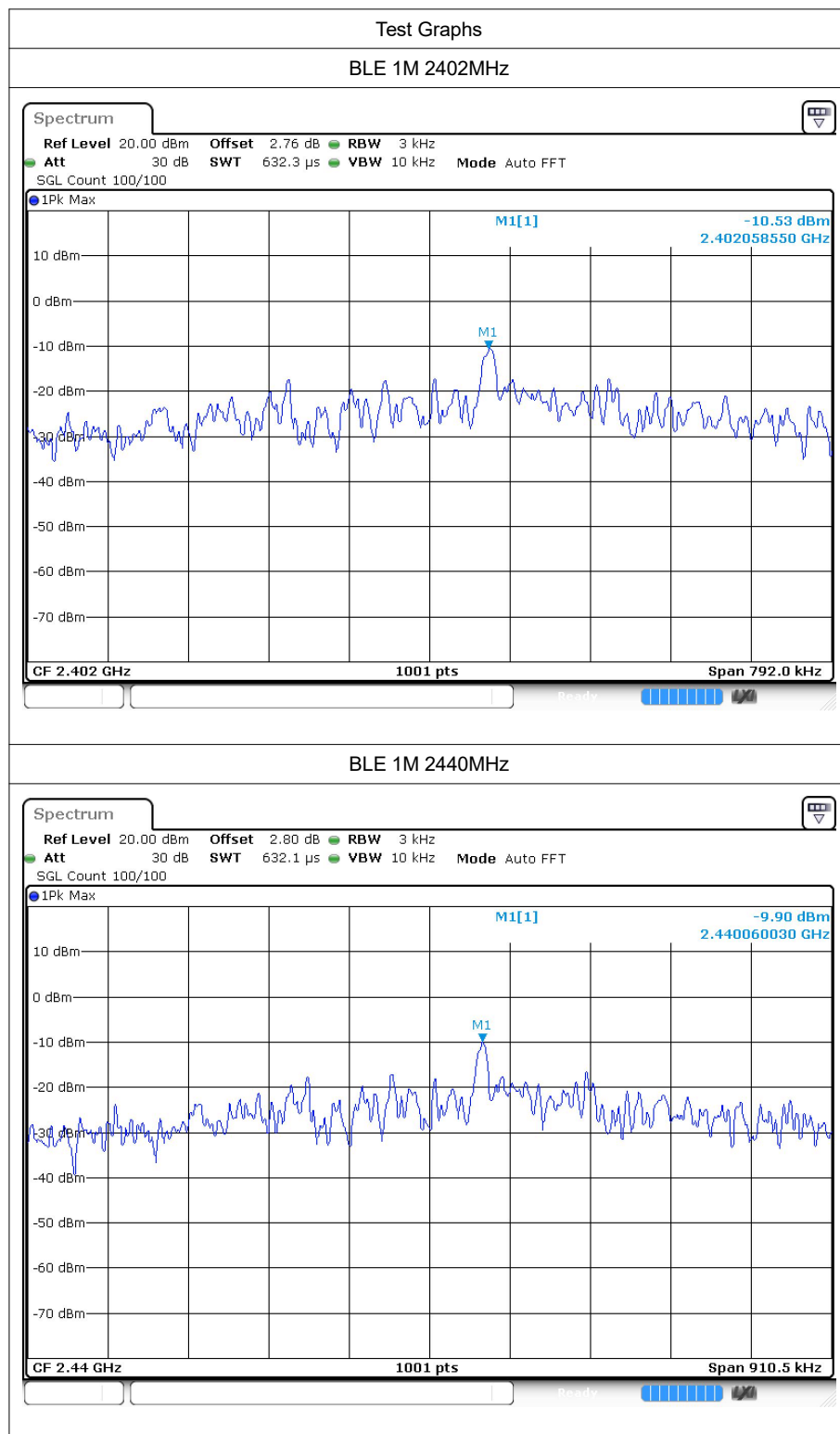


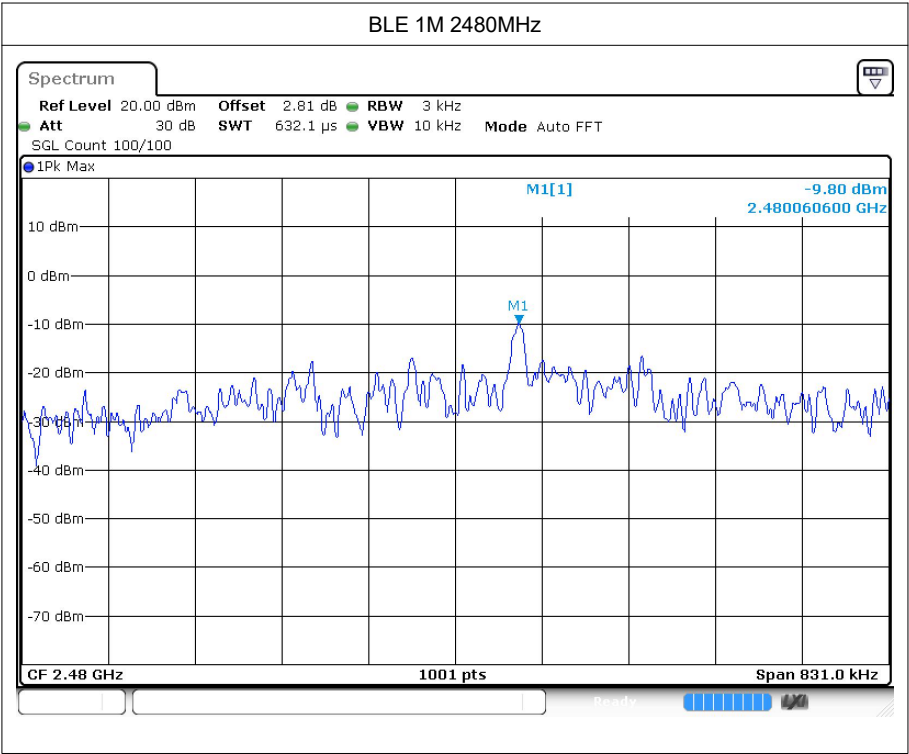
4 Maximum Power Spectral Density Level

4.1 Test Result

Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-10.53	≤8	Pass
BLE 1M	2440	-9.9	≤8	Pass
BLE 1M	2480	-9.8	≤8	Pass

4.2 Test Graphs





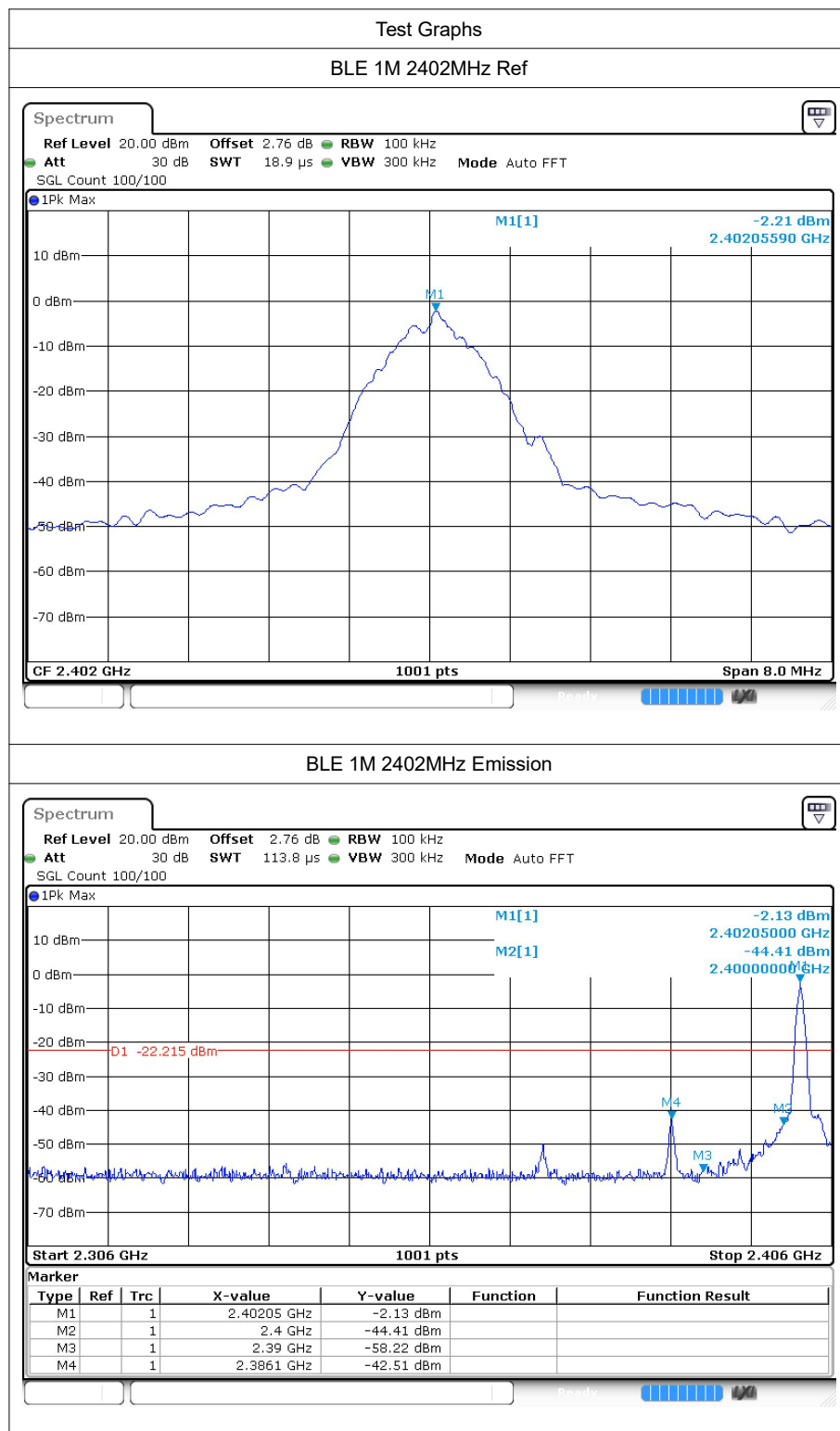


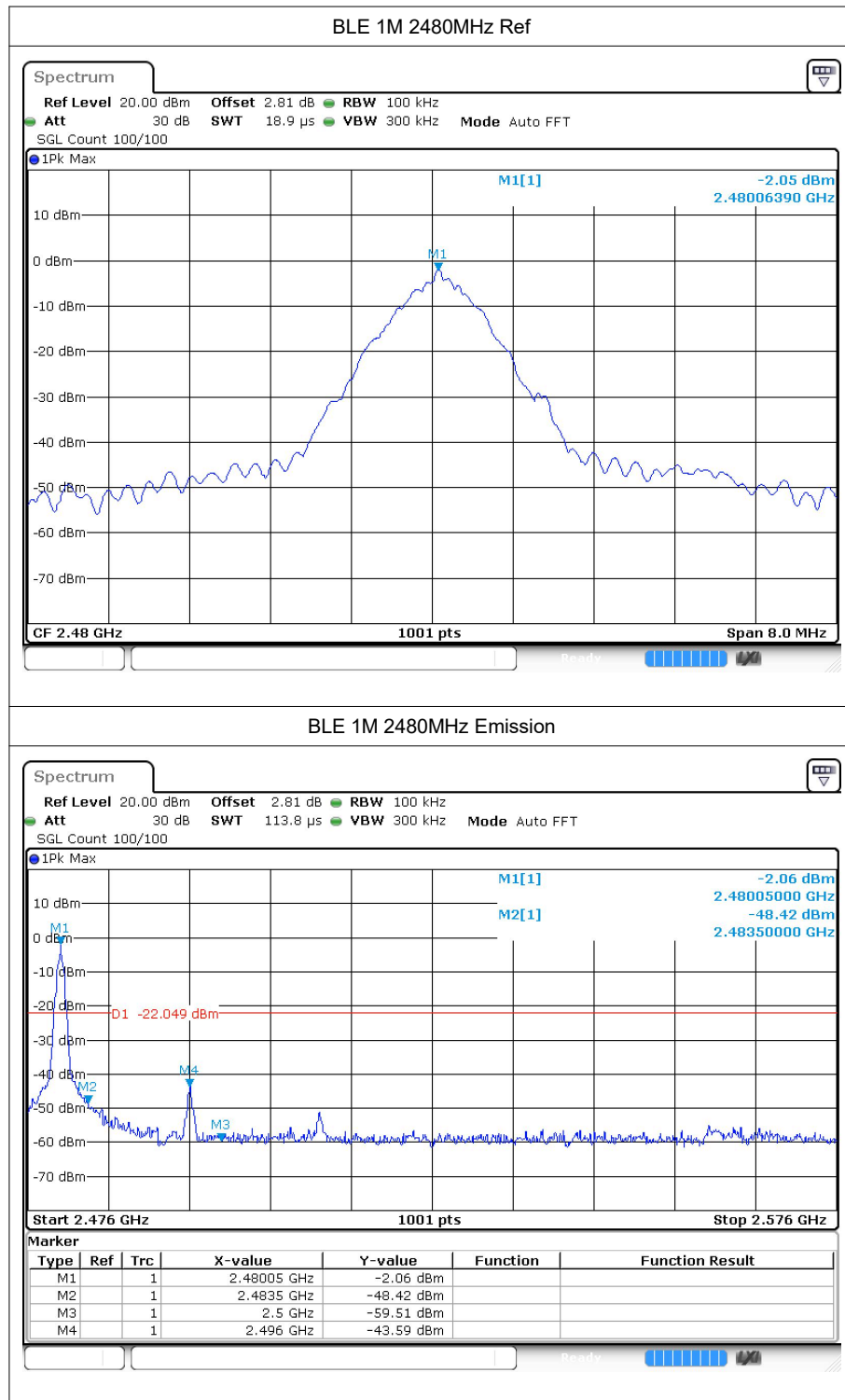
5 Band Edge

5.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-40.29	-20	Pass
BLE 1M	2480	-41.54	-20	Pass

5.2 Test Graphs



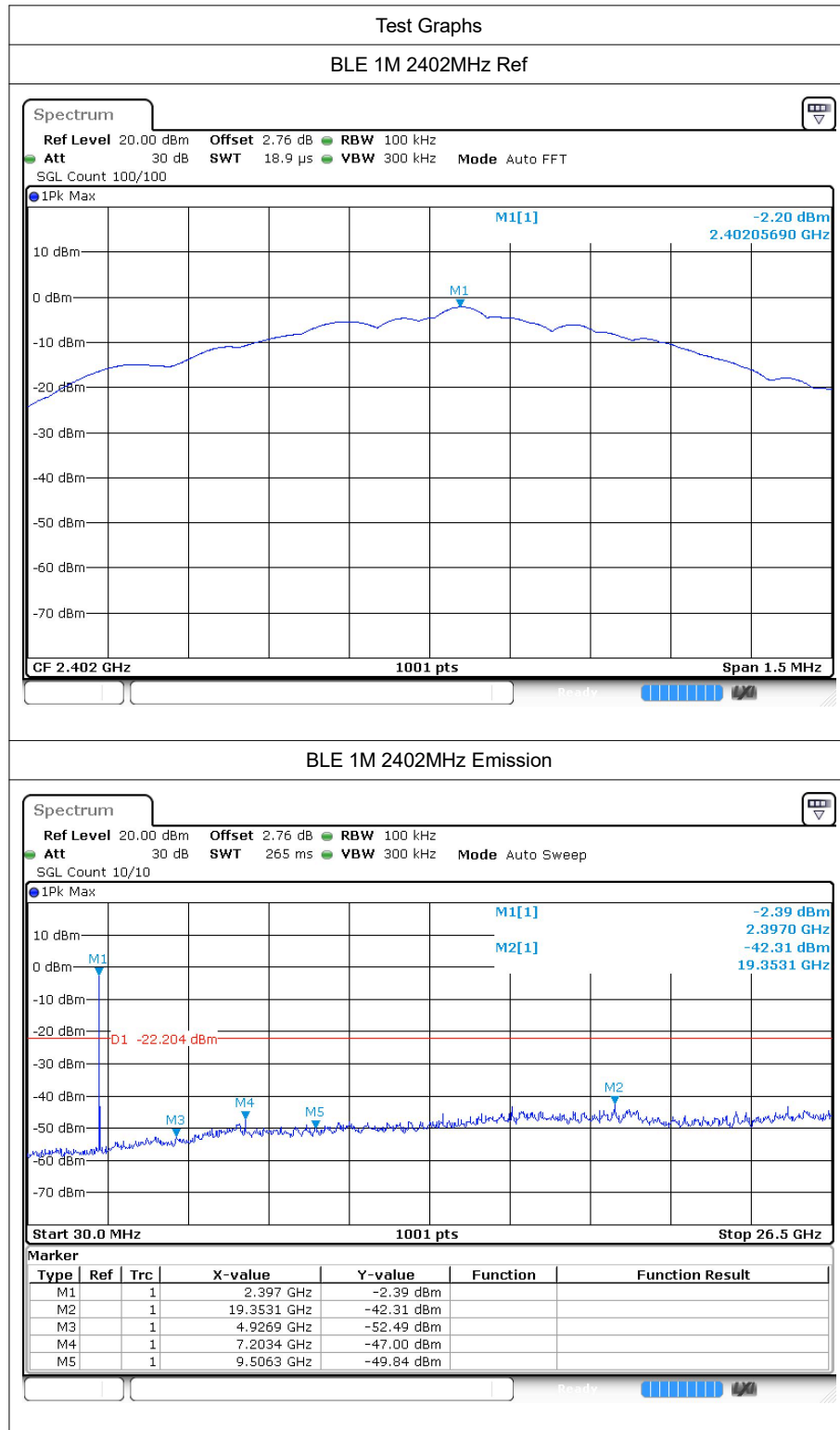


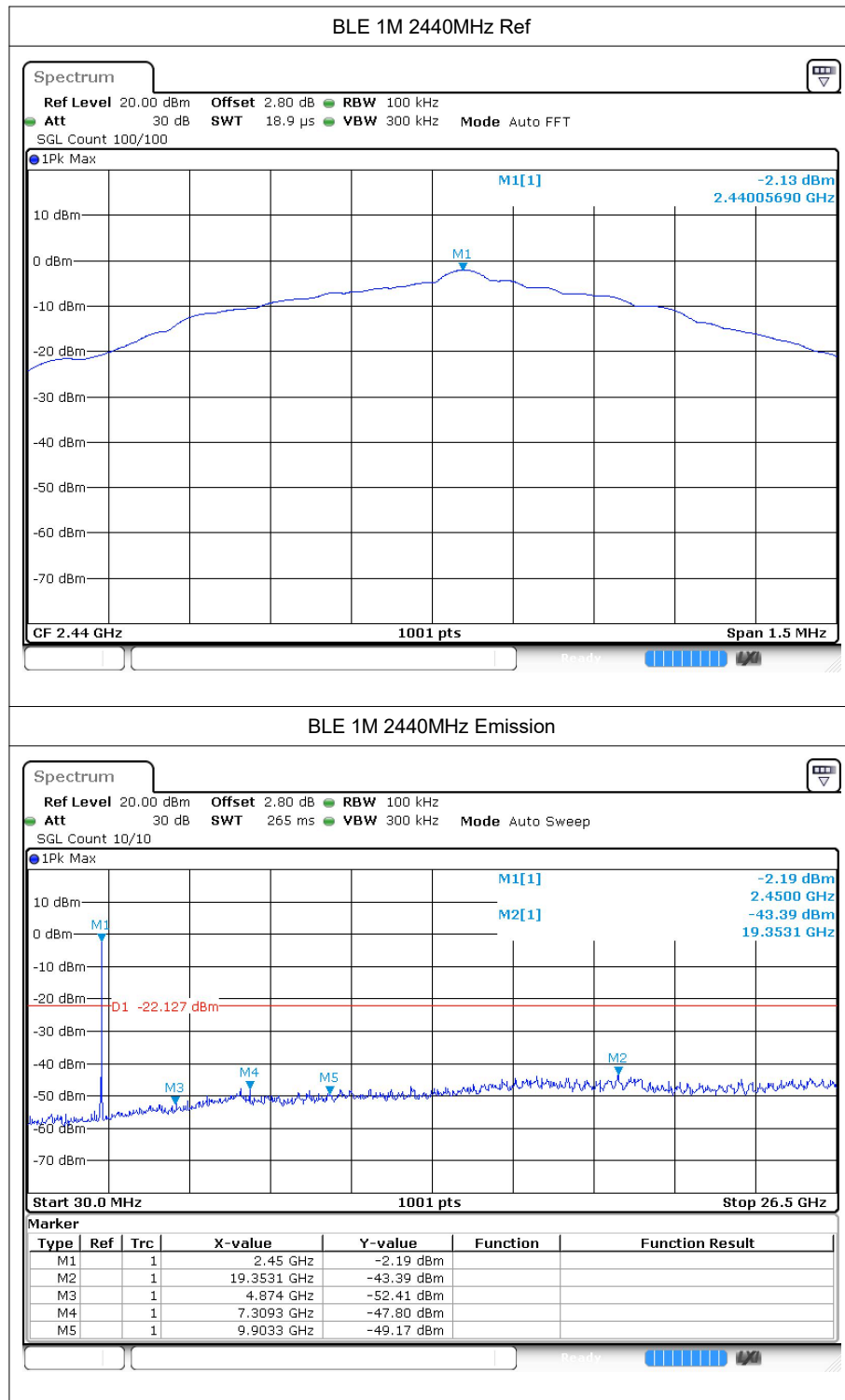
6 Conducted RF Spurious Emission

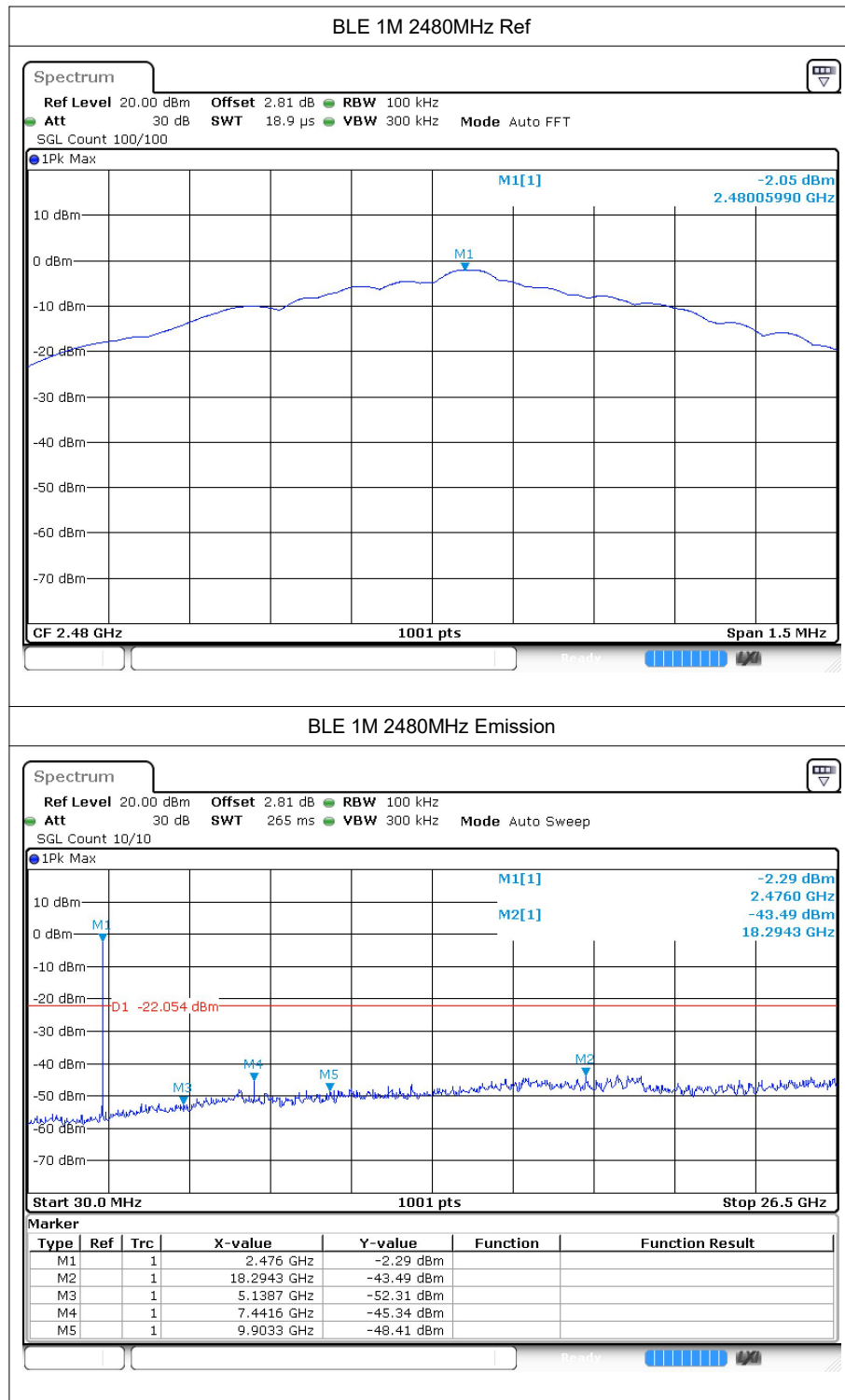
6.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-40.1	-20	Pass
BLE 1M	2440	-41.26	-20	Pass
BLE 1M	2480	-41.44	-20	Pass

6.2 Test Graphs







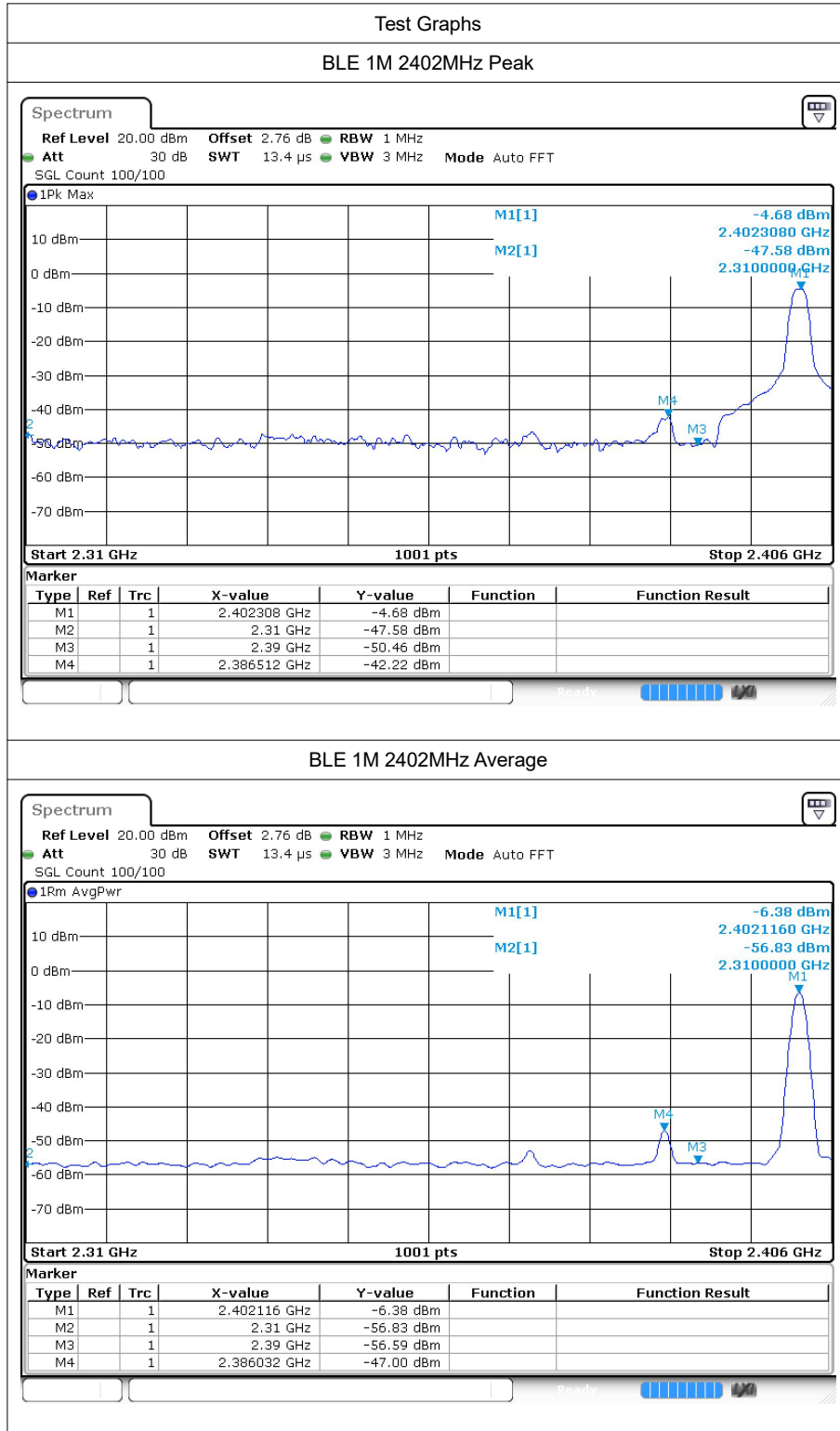


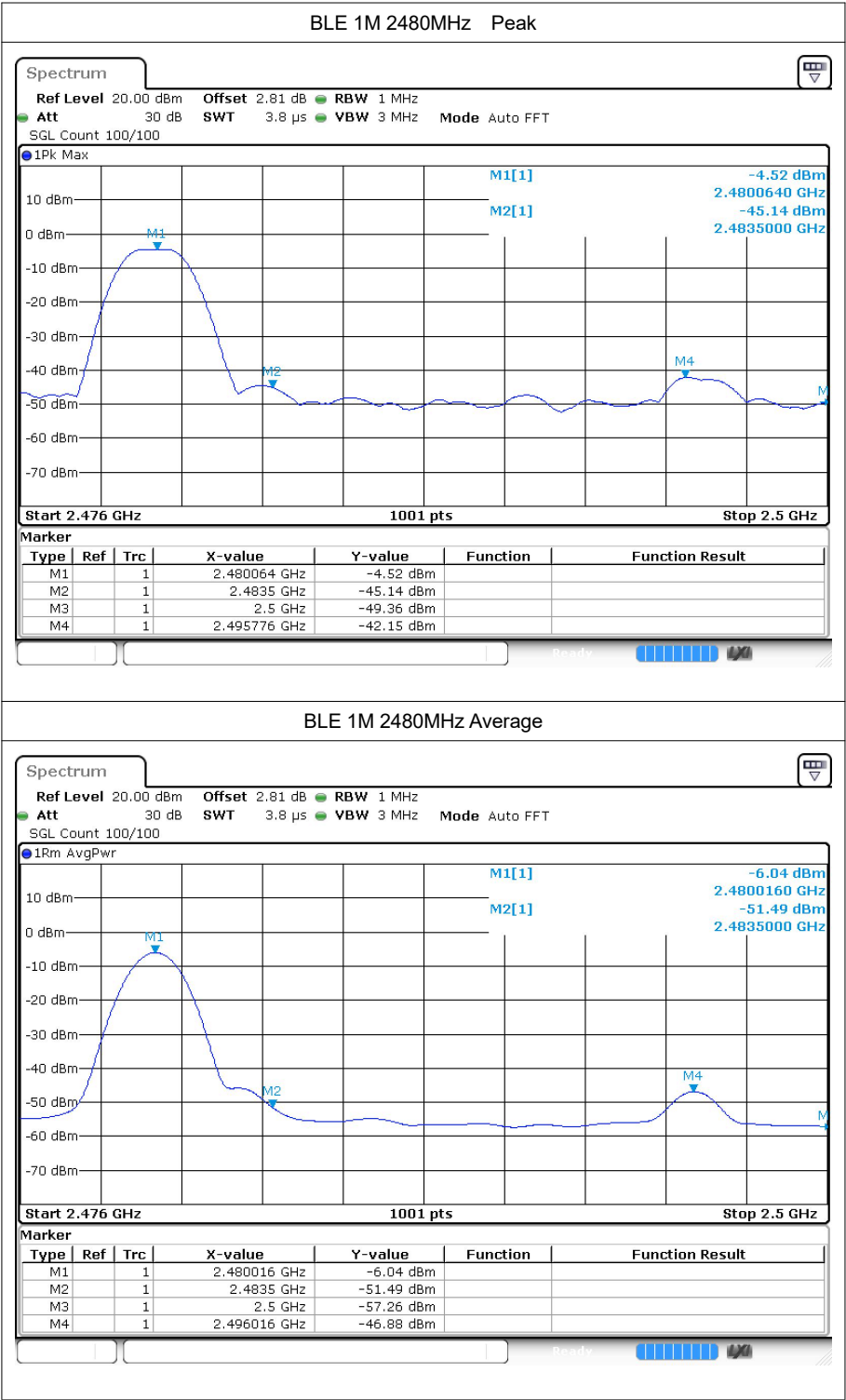
7 Restrict Band

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	-47.58	2	-	49.68	Peak	74	Pass
BLE 1M	2402	2310	-56.83	2	1.05	41.48	Average	54	Pass
BLE 1M	2402	2386.512	-42.21	2	-	55.05	Peak	74	Pass
BLE 1M	2402	2386.032	-47	2	1.05	51.31	Average	54	Pass
BLE 1M	2402	2390	-50.46	2	-	46.8	Peak	74	Pass
BLE 1M	2402	2390	-56.59	2	1.05	41.72	Average	54	Pass
BLE 1M	2480	2483.5	-45.14	2	-	52.12	Peak	74	Pass
BLE 1M	2480	2483.5	-51.49	2	1.05	46.82	Average	54	Pass
BLE 1M	2480	2495.776	-42.14	2	-	55.12	Peak	74	Pass
BLE 1M	2480	2496.016	-46.87	2	1.05	51.44	Average	54	Pass
BLE 1M	2480	2500	-49.36	2	-	47.9	Peak	74	Pass
BLE 1M	2480	2500	-57.26	2	1.05	41.05	Average	54	Pass

7.2 Test Graphs





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