



Appendix B

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

Product Name: Glasses-free 3D Display

Trade Mark: STARTEK

Test Model: KD430UHFVA024

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya Lin
Supervised by:	Simba Huang



Contents

Page

COVER PAGE

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	9
3	-6dB Bandwidth	12
3.1	Test Result	12
3.2	Test Graphs	13
4	Maximum Power Spectral Density Level	16
4.1	Test Result	16
4.2	Test Graphs	18
5	Band Edge	21
5.1	Test Result	21
5.2	Test Graphs	22
6	Conducted RF Spurious Emission	26
6.1	Test Result	26
6.2	Test Graphs	27
7	Restrict Band	33
7.1	Test Result	33
7.2	Test Graphs	36

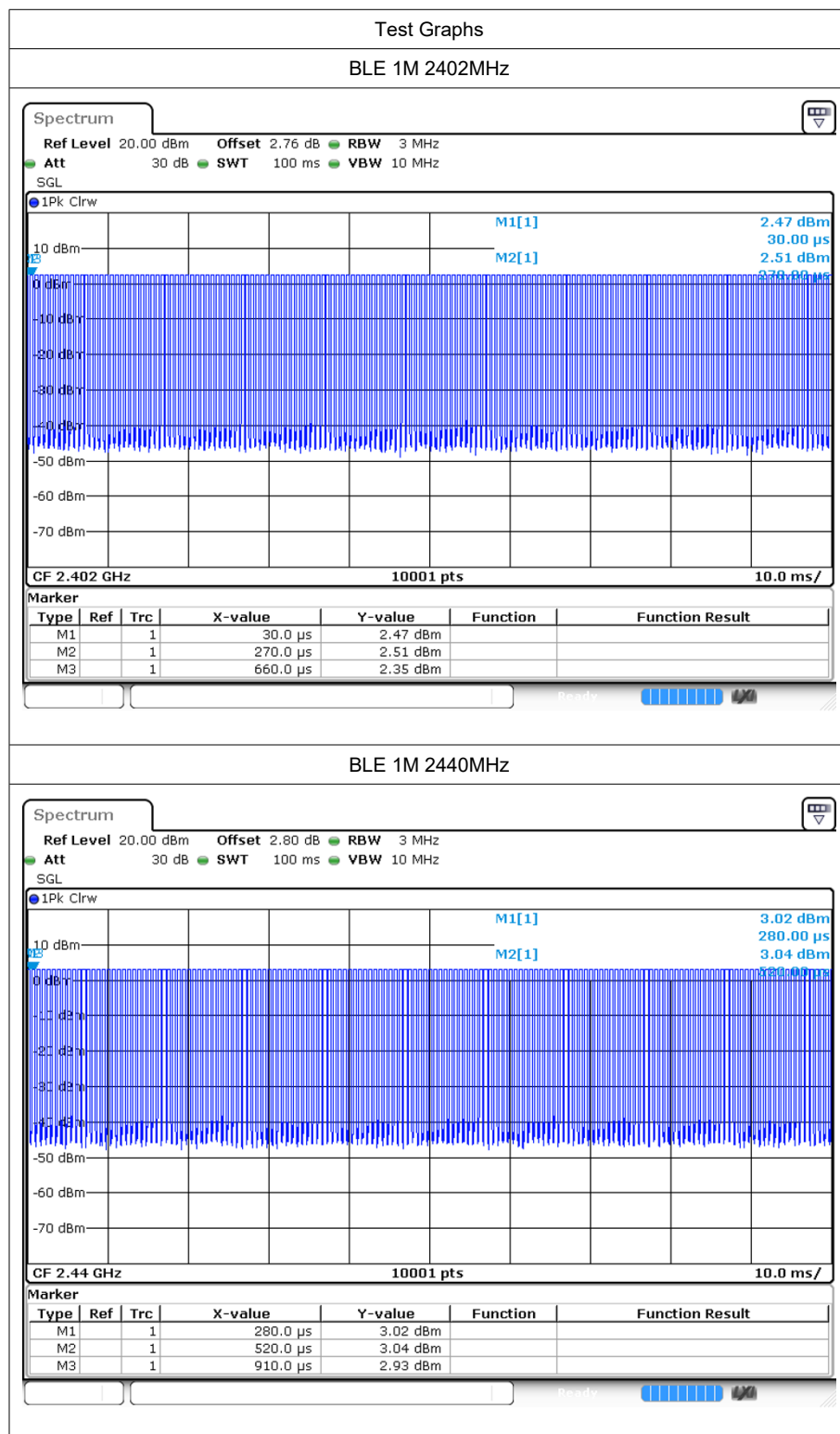


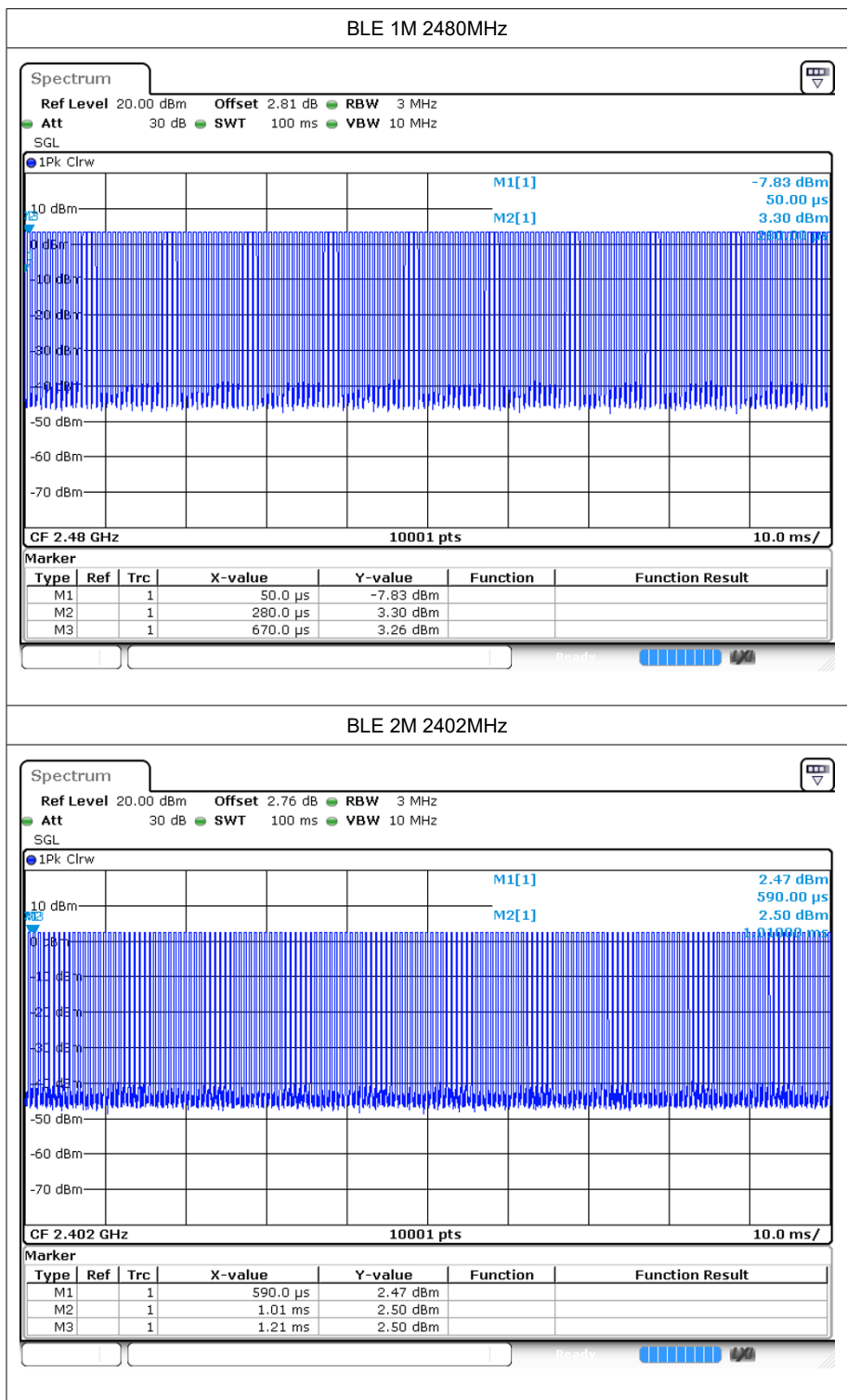
1 Duty Cycle

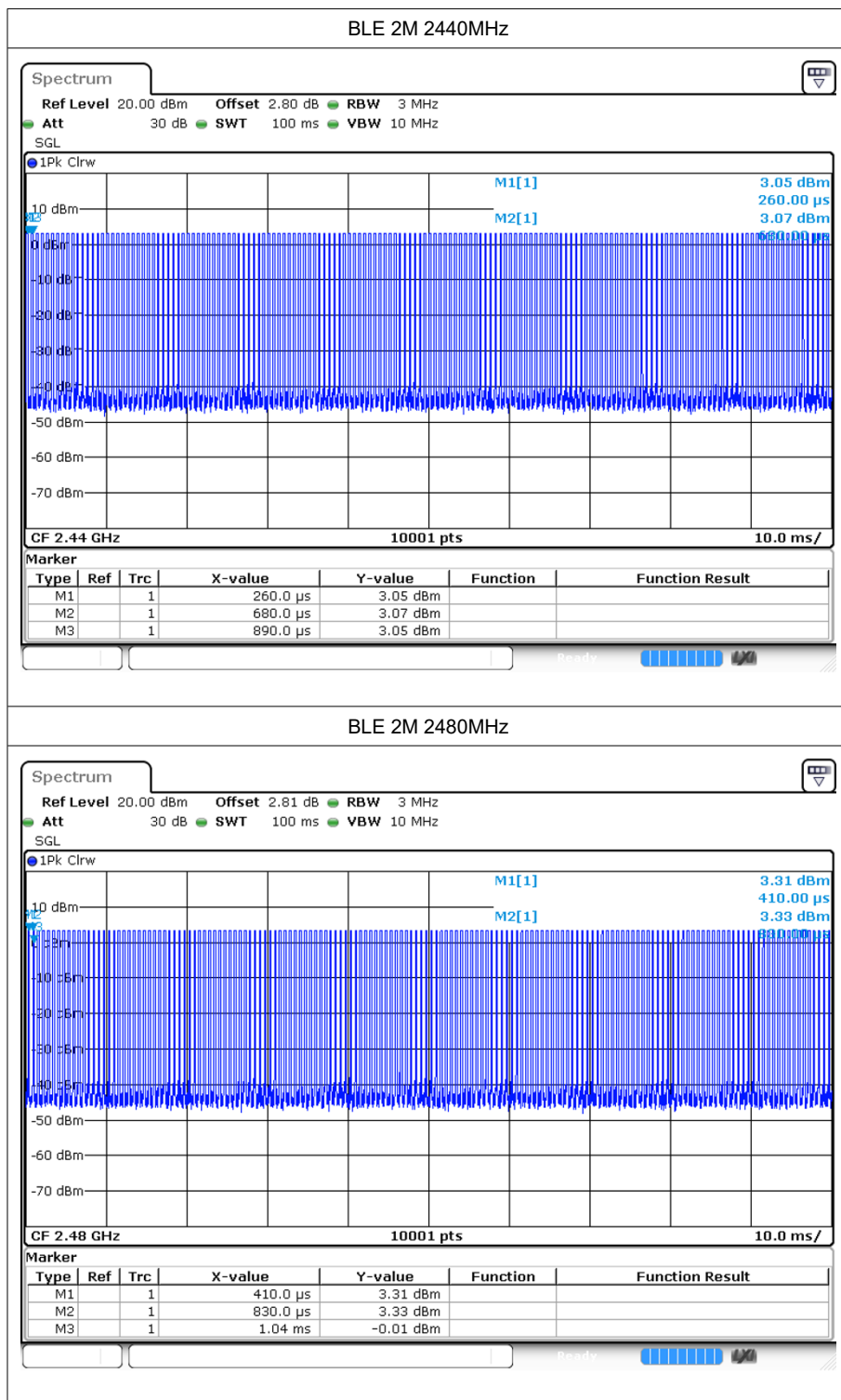
1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
BLE 1M	2402	64	1.94	2.56
BLE 1M	2440	64	1.94	2.56
BLE 1M	2480	64.59	1.9	2.56
BLE 2M	2402	34.64	4.6	5
BLE 2M	2440	34.44	4.63	4.76
BLE 2M	2480	35.2	4.54	4.76

1.2 Test Graphs







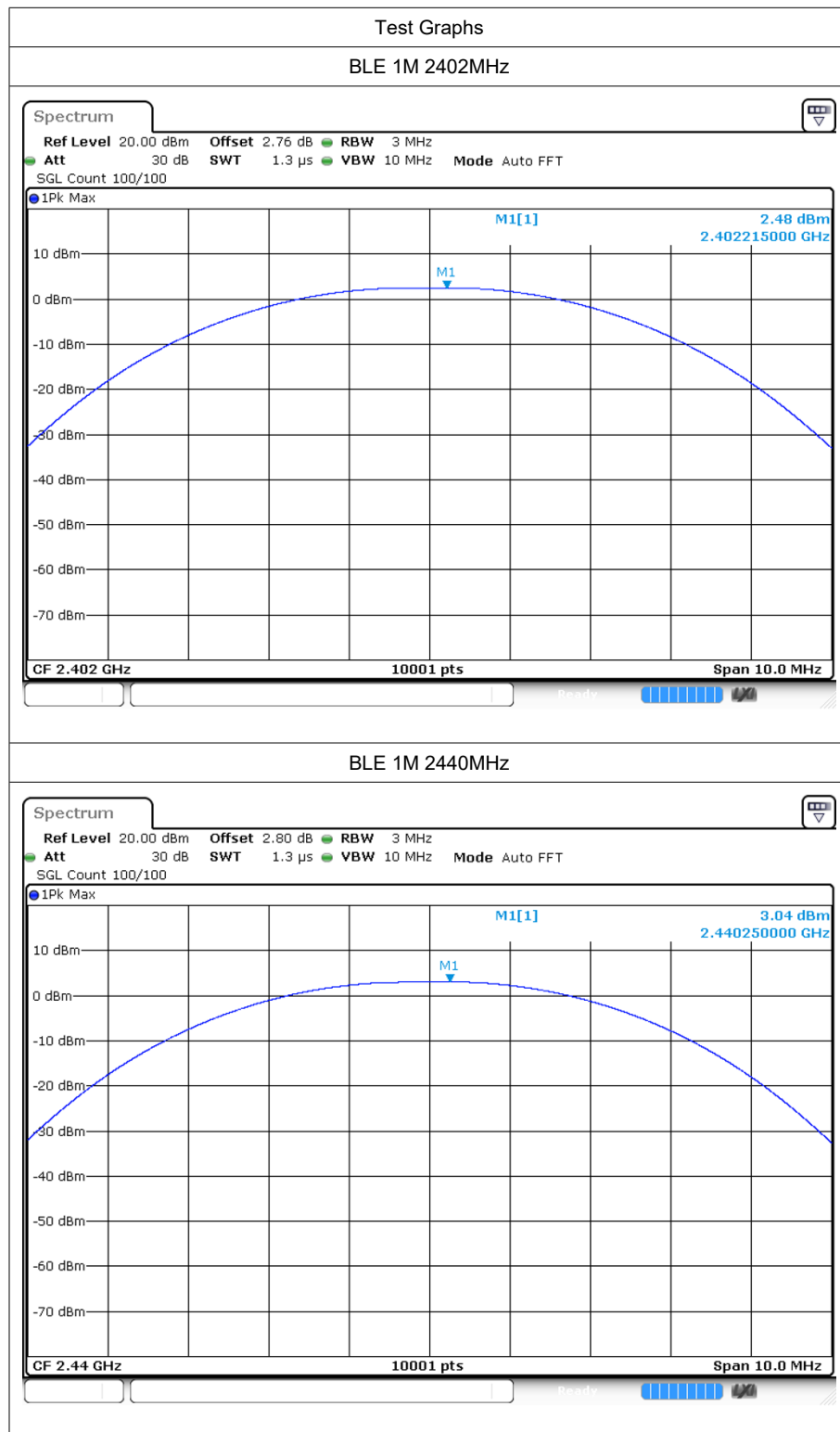


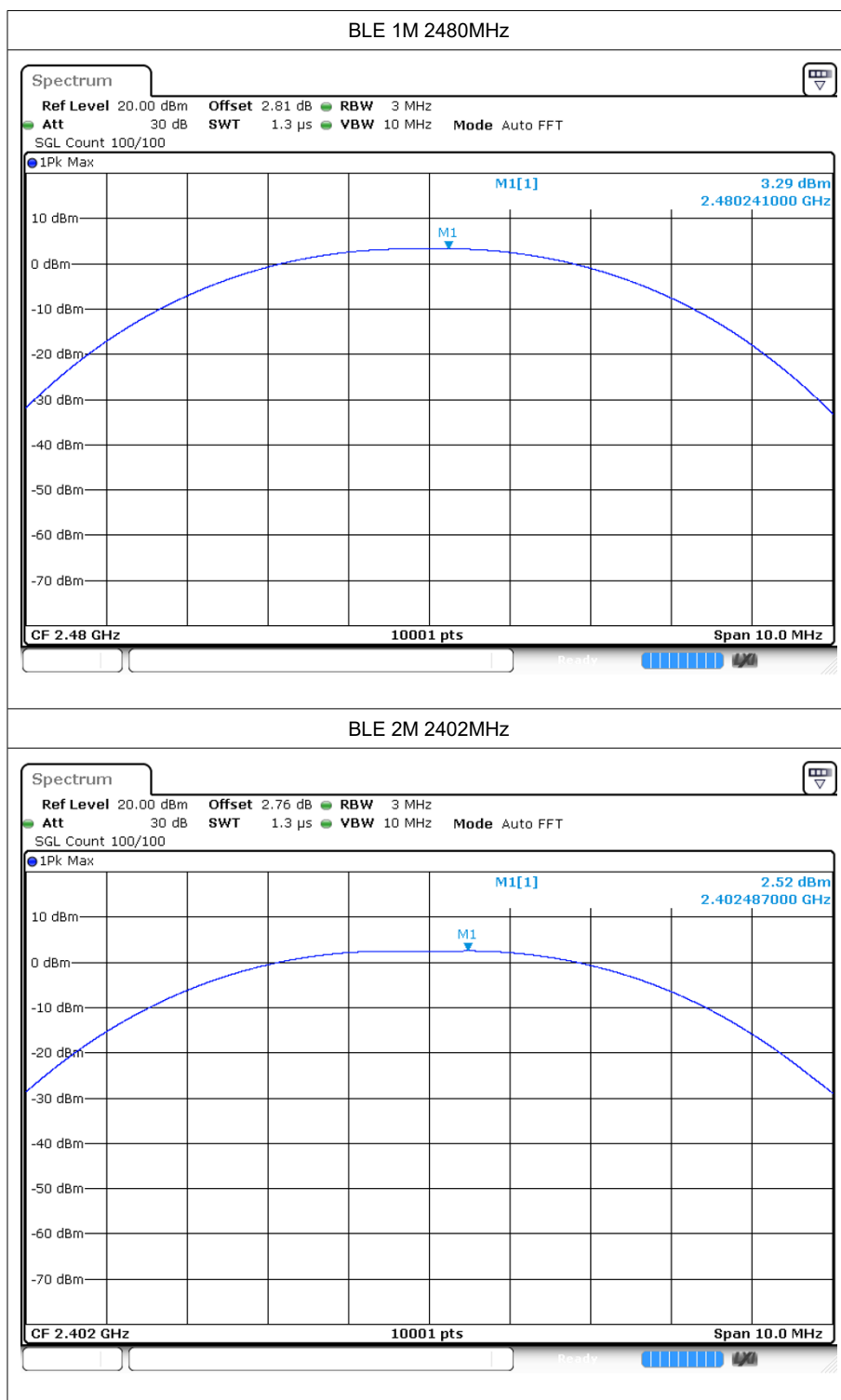
2 Maximum Conducted Output Power

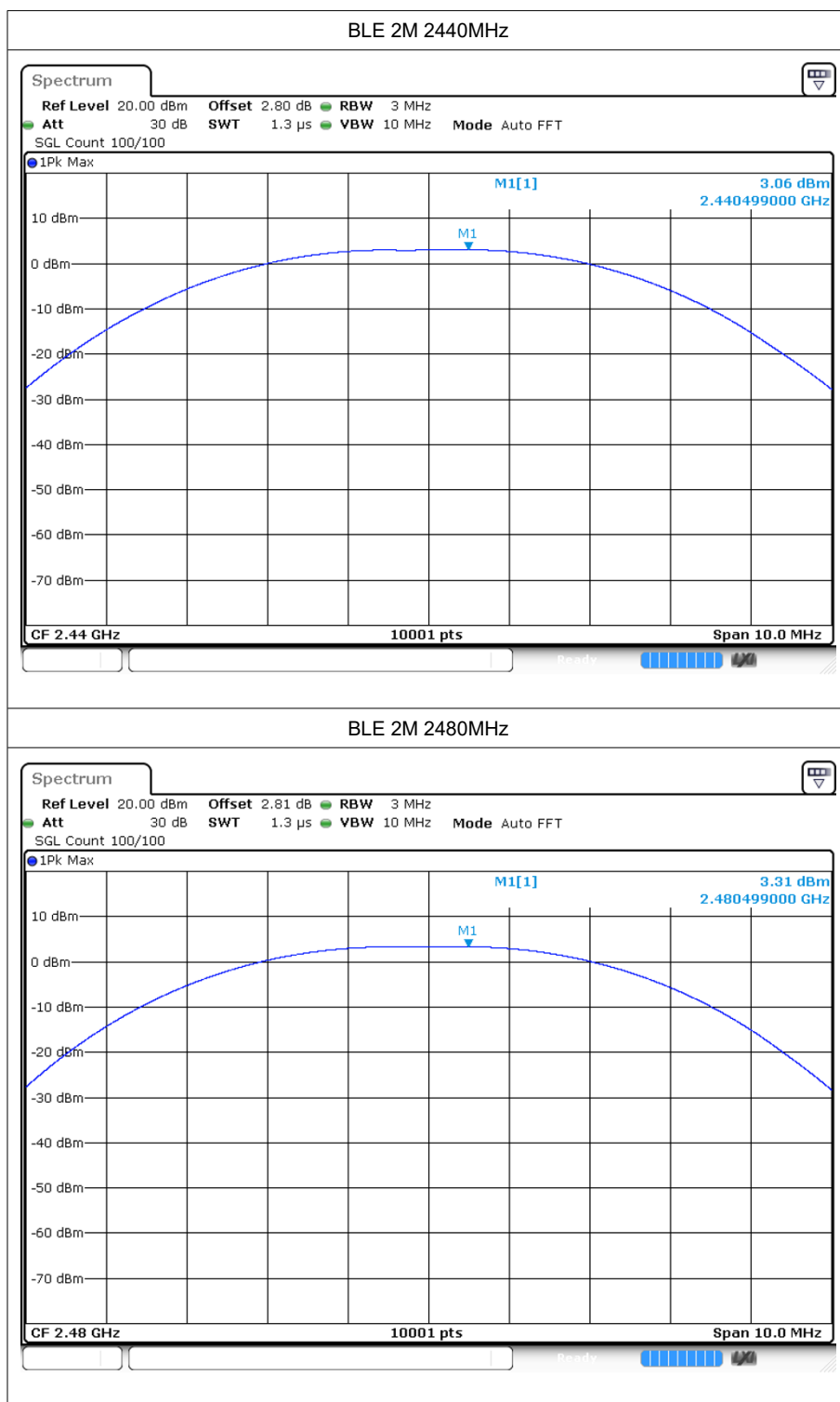
2.1 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	2.48	30	Pass
BLE 1M	2440	3.04	30	Pass
BLE 1M	2480	3.29	30	Pass
BLE 2M	2402	2.52	30	Pass
BLE 2M	2440	3.06	30	Pass
BLE 2M	2480	3.31	30	Pass

2.2 Test Graphs







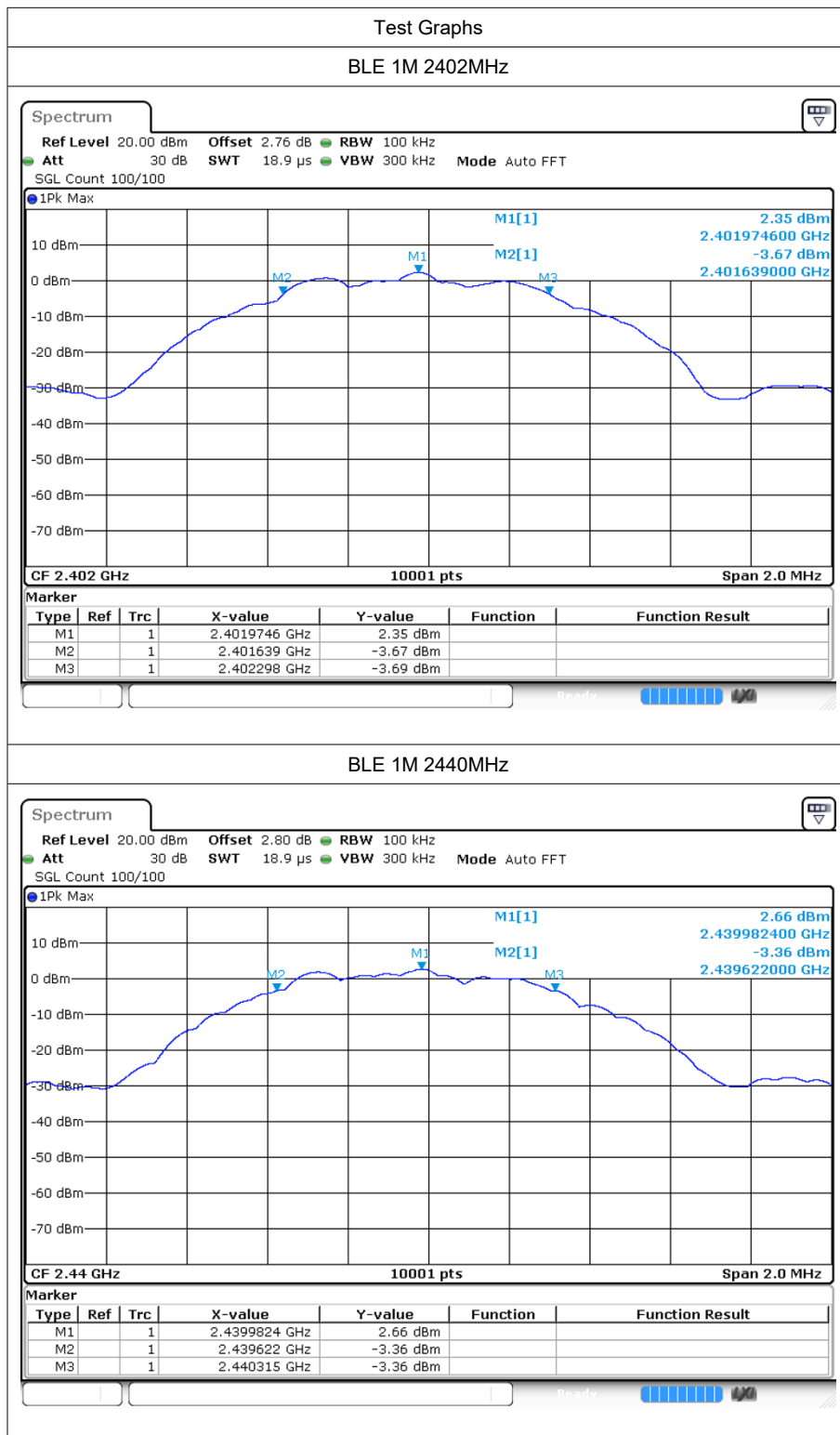


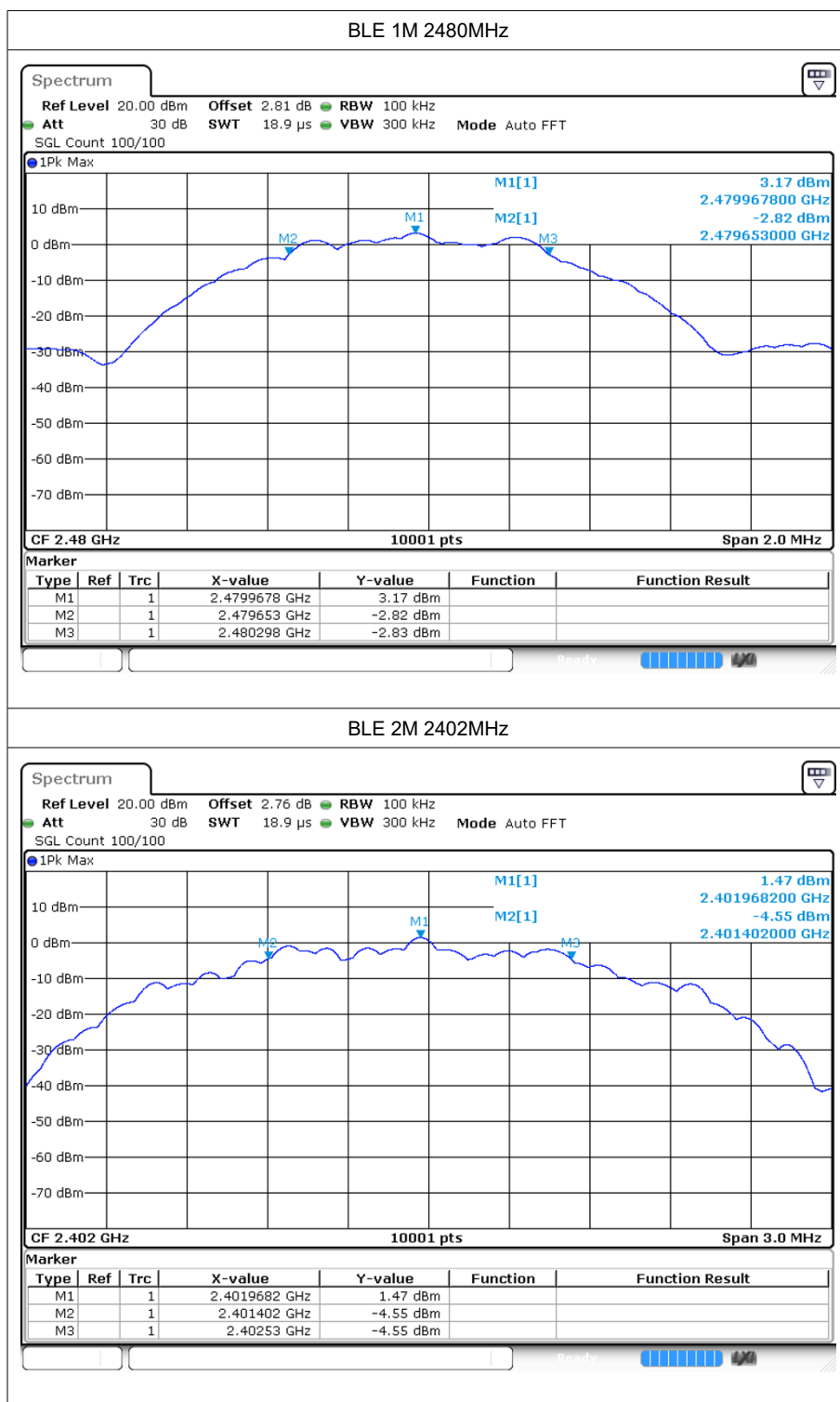
3 -6dB Bandwidth

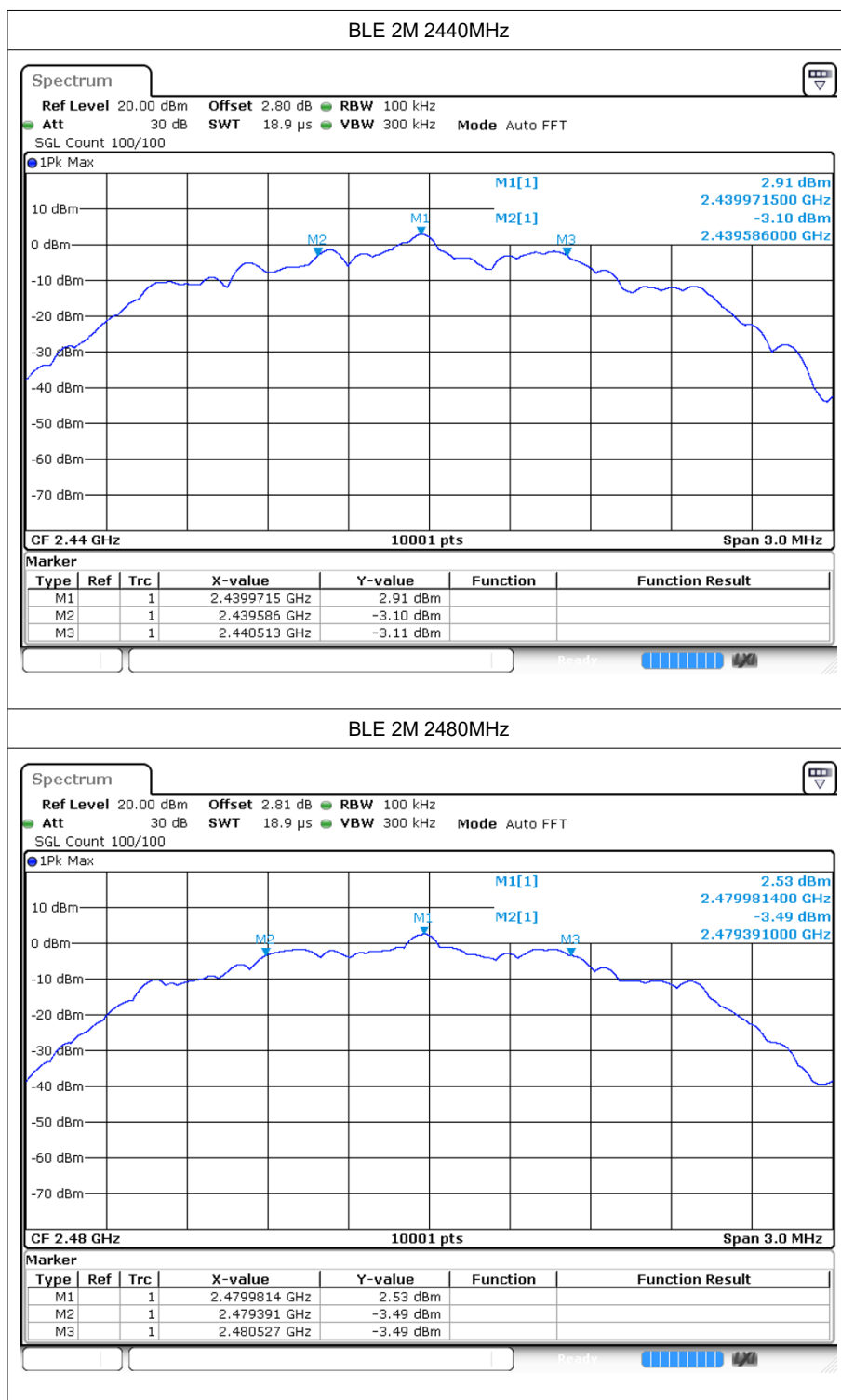
3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.659	0.5	Pass
BLE 1M	2440	0.693	0.5	Pass
BLE 1M	2480	0.645	0.5	Pass
BLE 2M	2402	1.128	0.5	Pass
BLE 2M	2440	0.927	0.5	Pass
BLE 2M	2480	1.136	0.5	Pass

3.2 Test Graphs









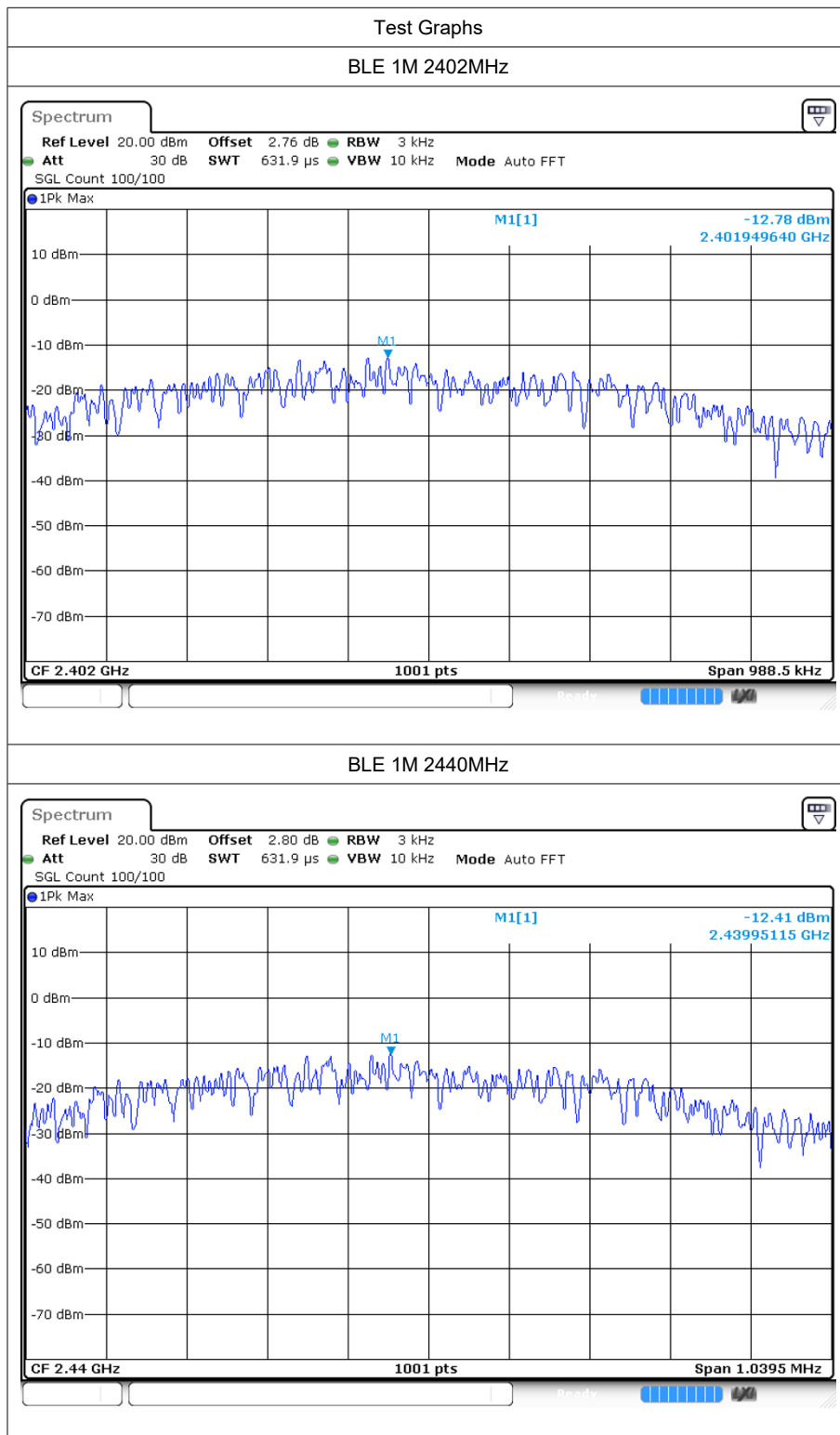
4 Maximum Power Spectral Density Level

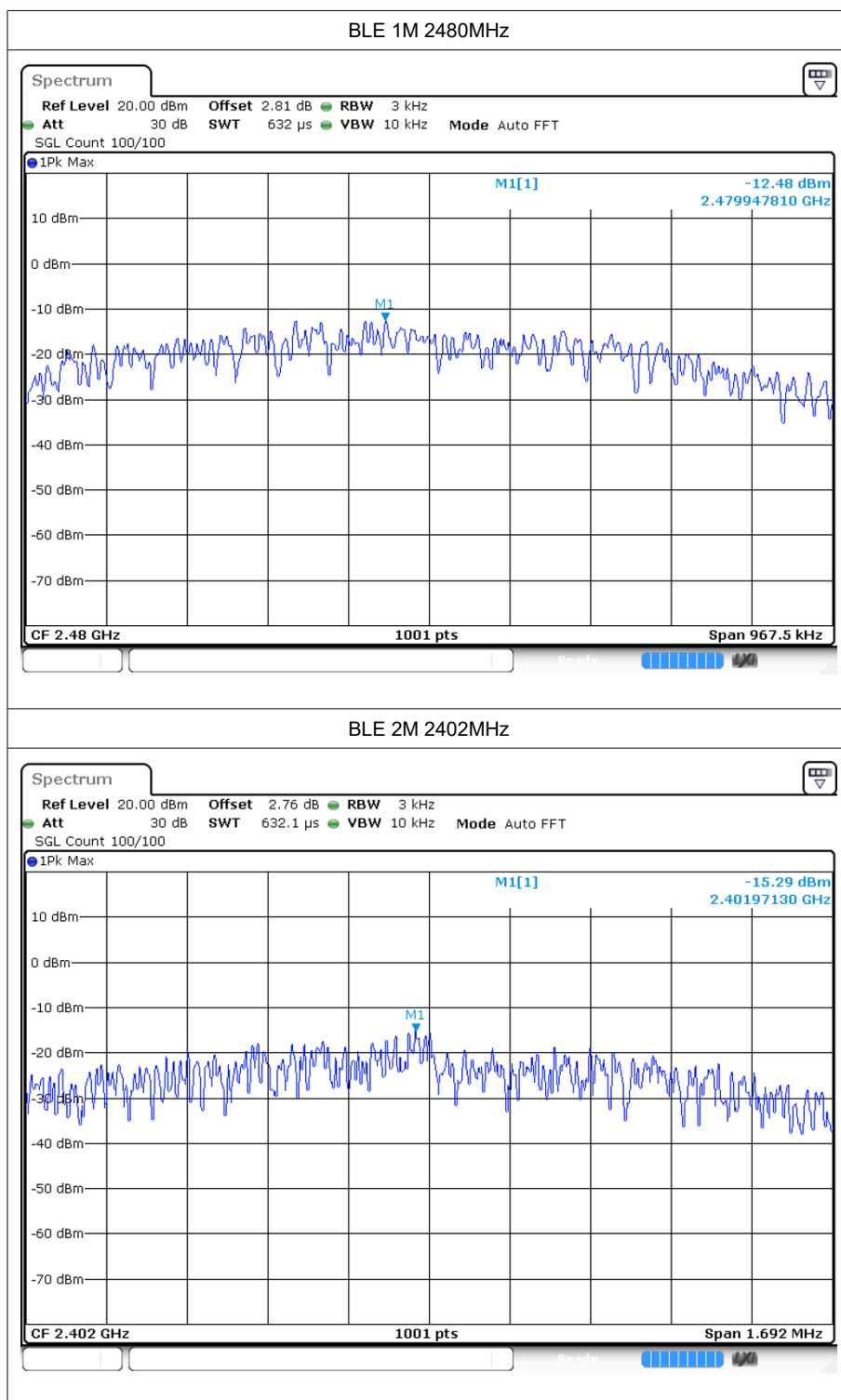
4.1 Test Result

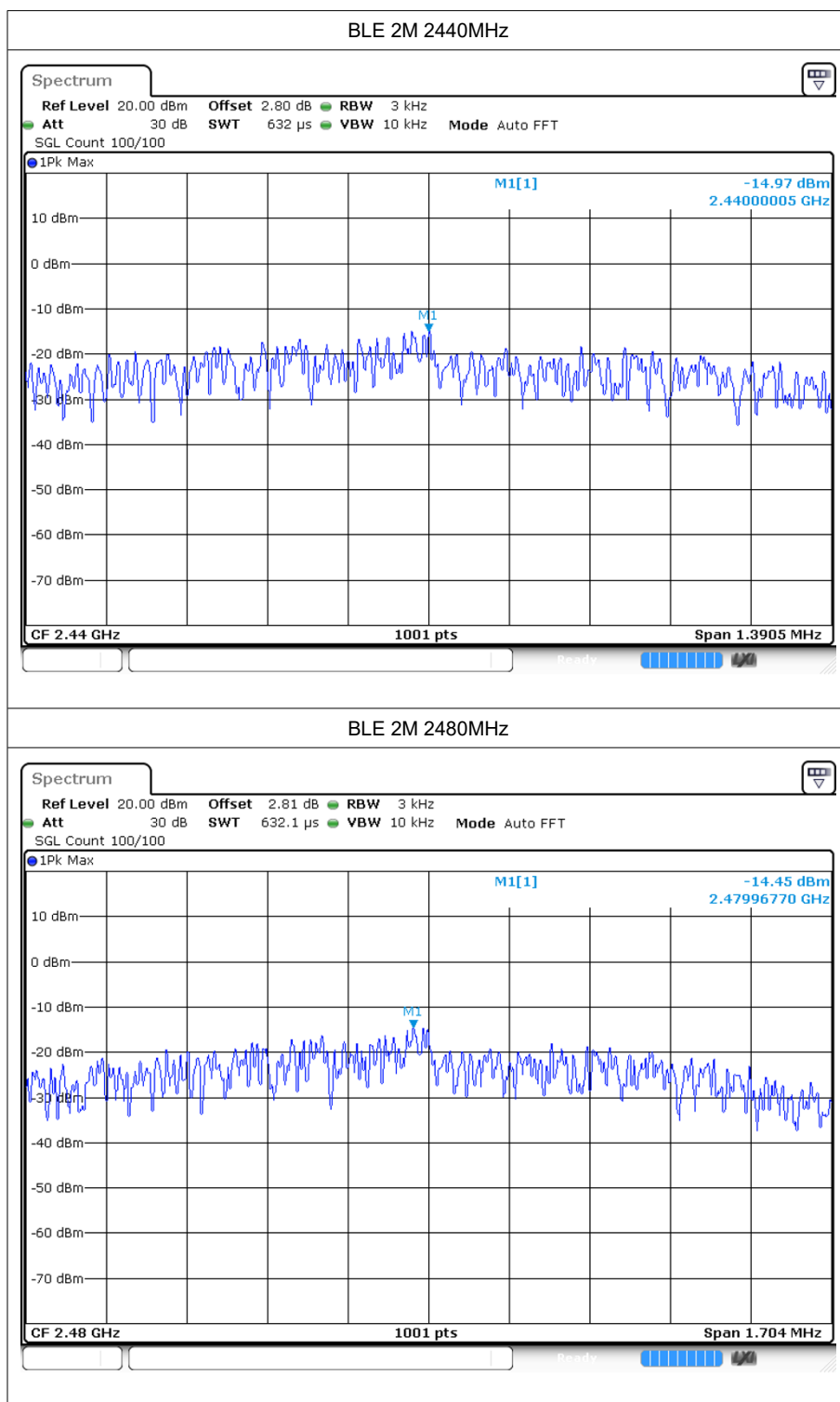
Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-12.78	≤8	Pass
BLE 1M	2440	-12.41	≤8	Pass
BLE 1M	2480	-12.48	≤8	Pass
BLE 2M	2402	-15.29	≤8	Pass
BLE 2M	2440	-14.97	≤8	Pass
BLE 2M	2480	-14.45	≤8	Pass



4.2 Test Graphs







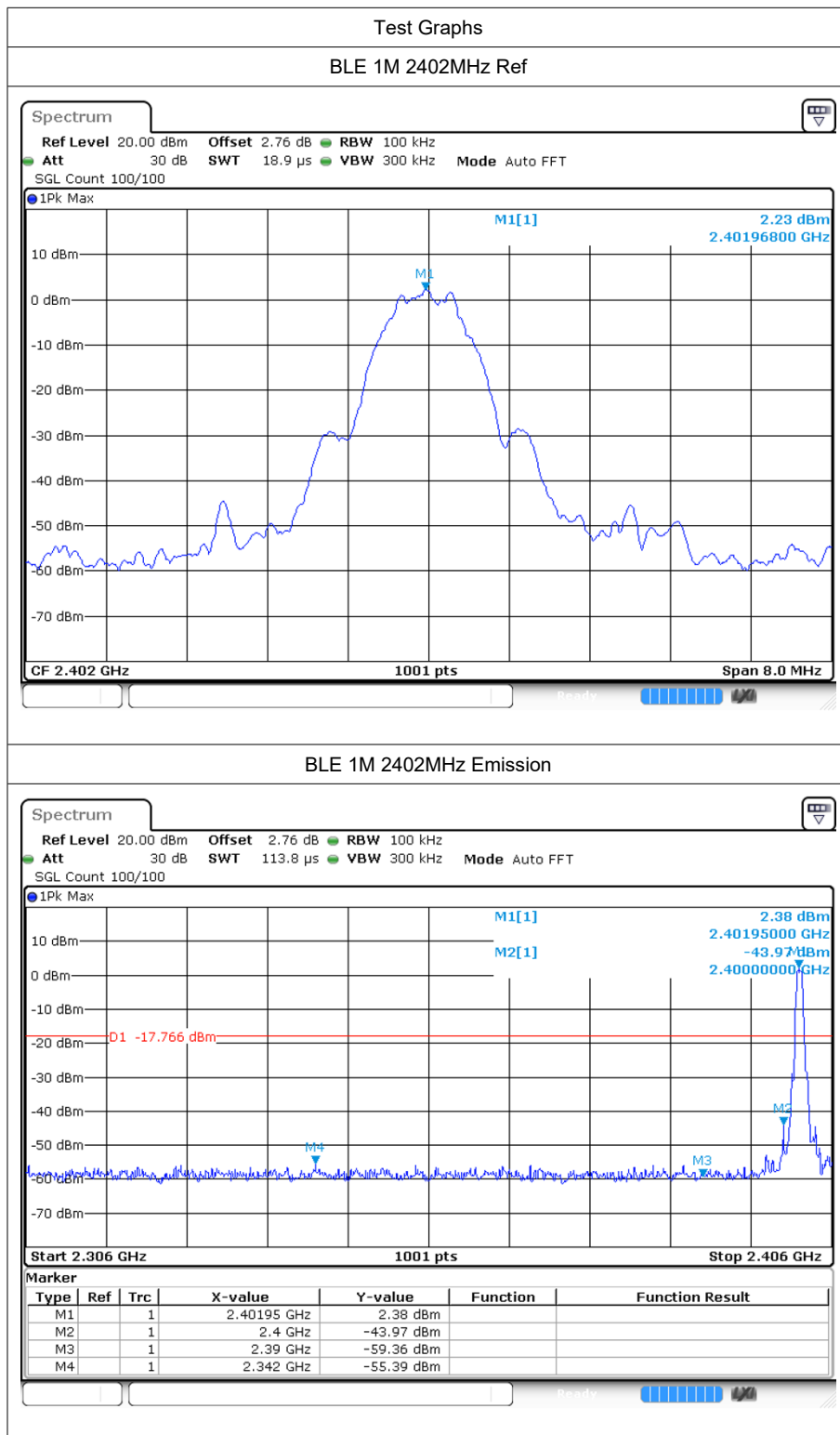


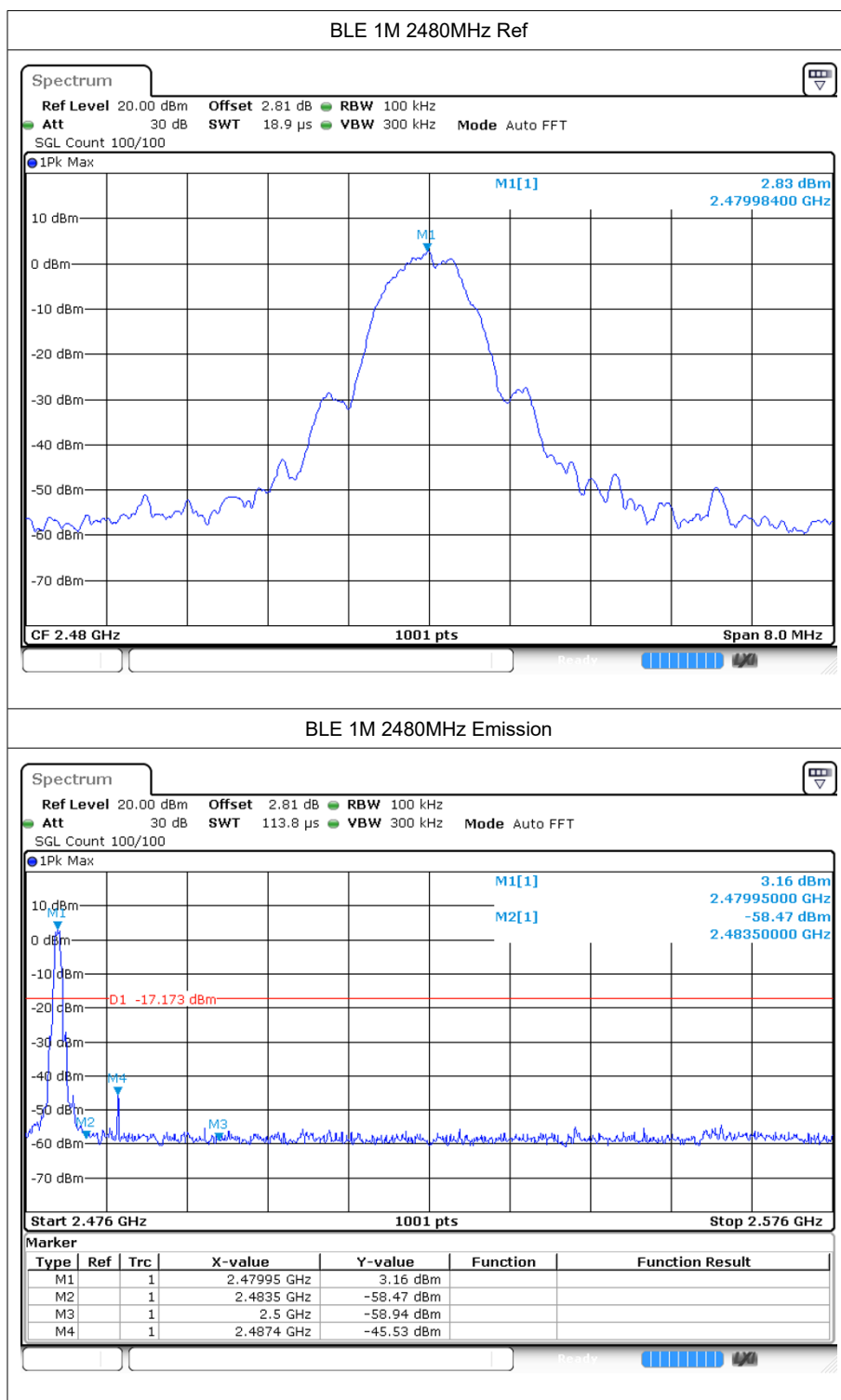
5 Band Edge

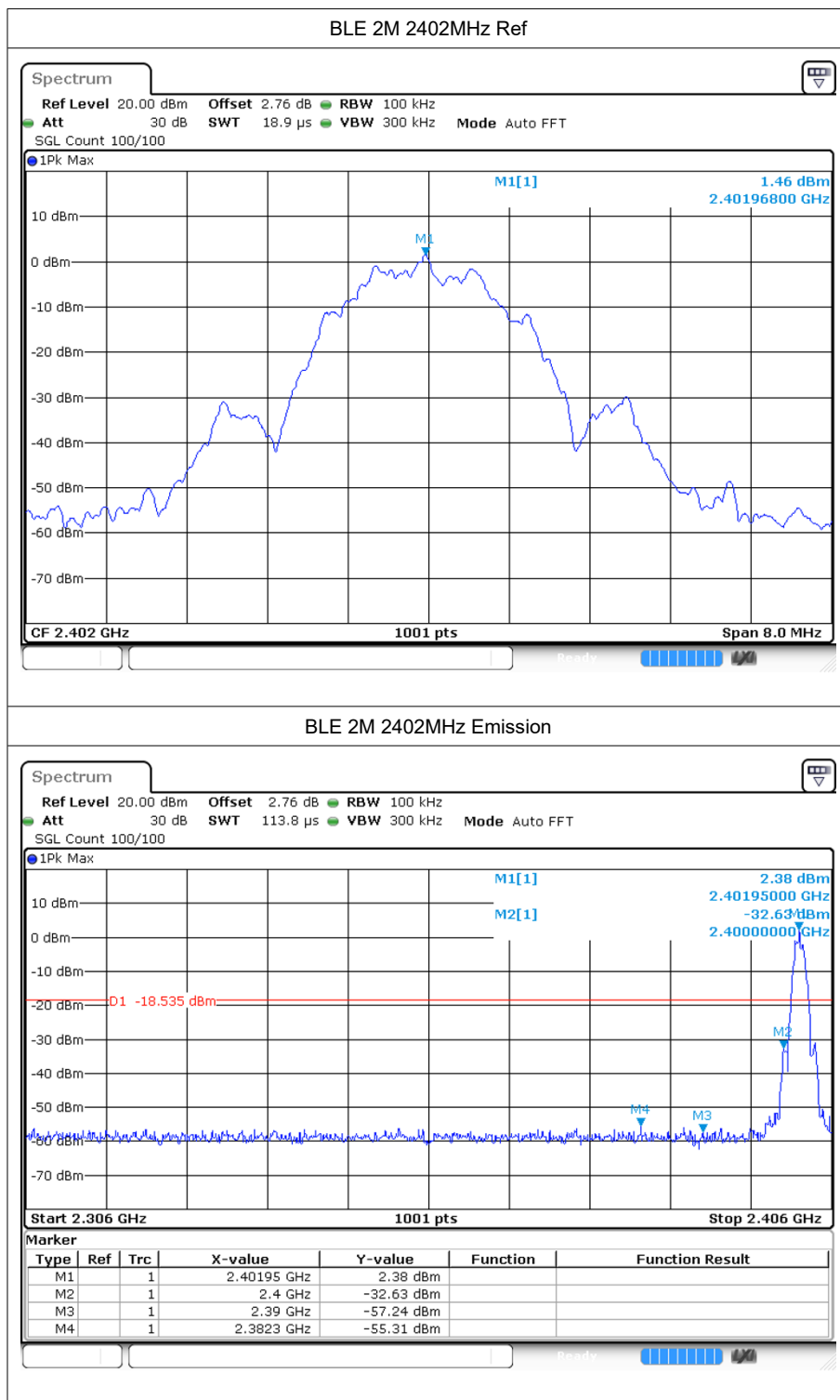
5.1 Test Result

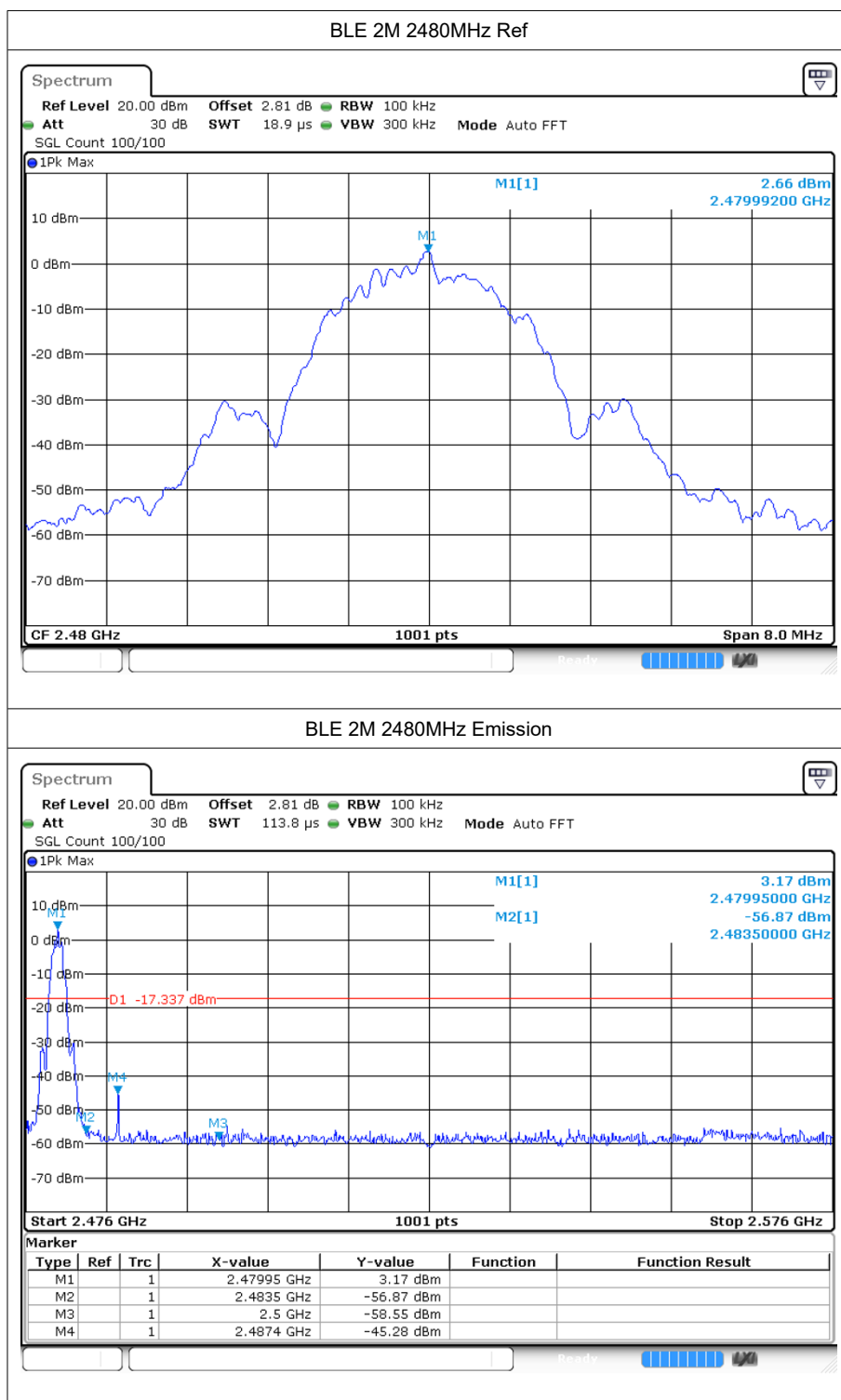
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-57.61	-20	Pass
BLE 1M	2480	-48.36	-20	Pass
BLE 2M	2402	-56.77	-20	Pass
BLE 2M	2480	-47.94	-20	Pass

5.2 Test Graphs









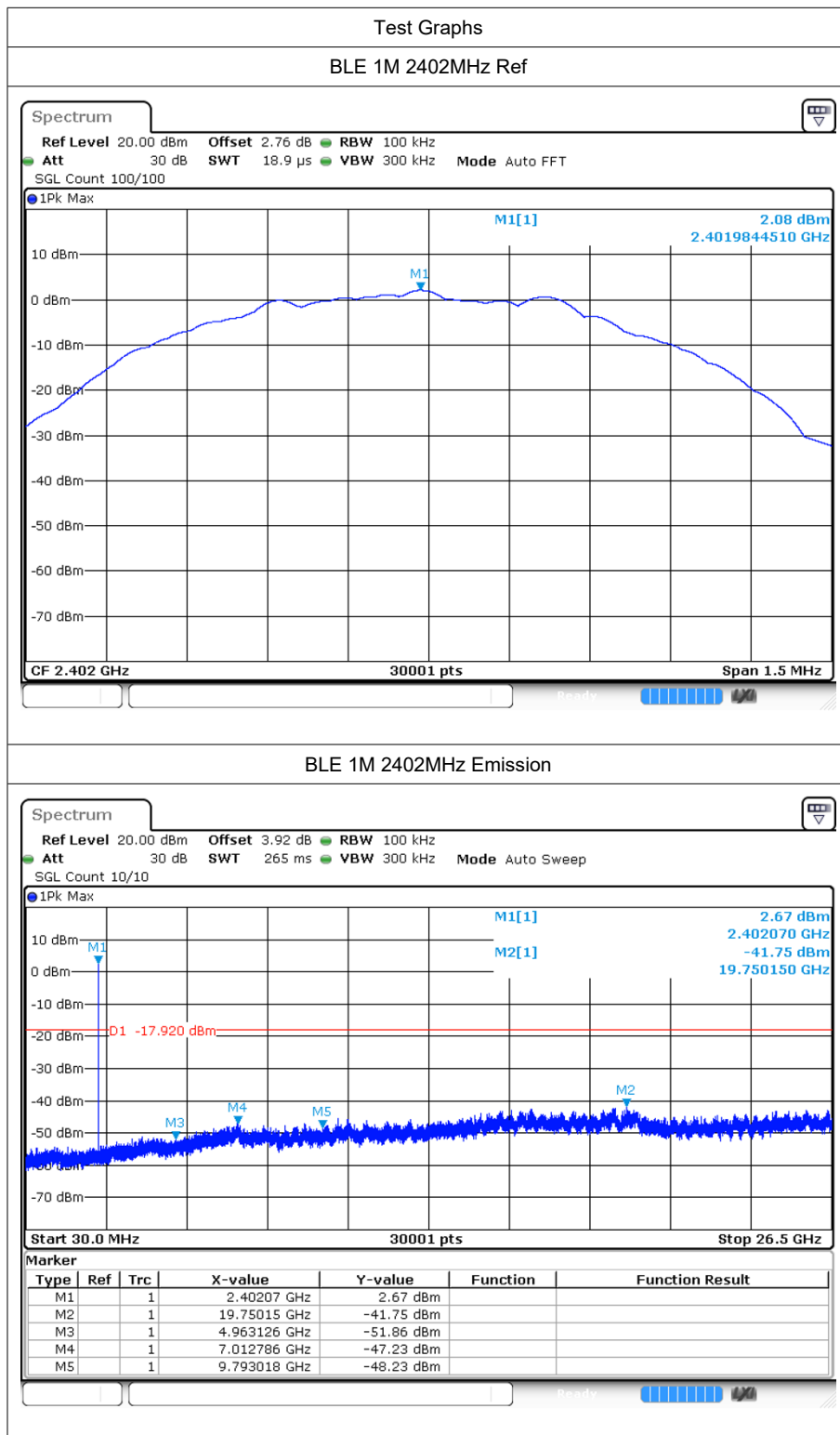


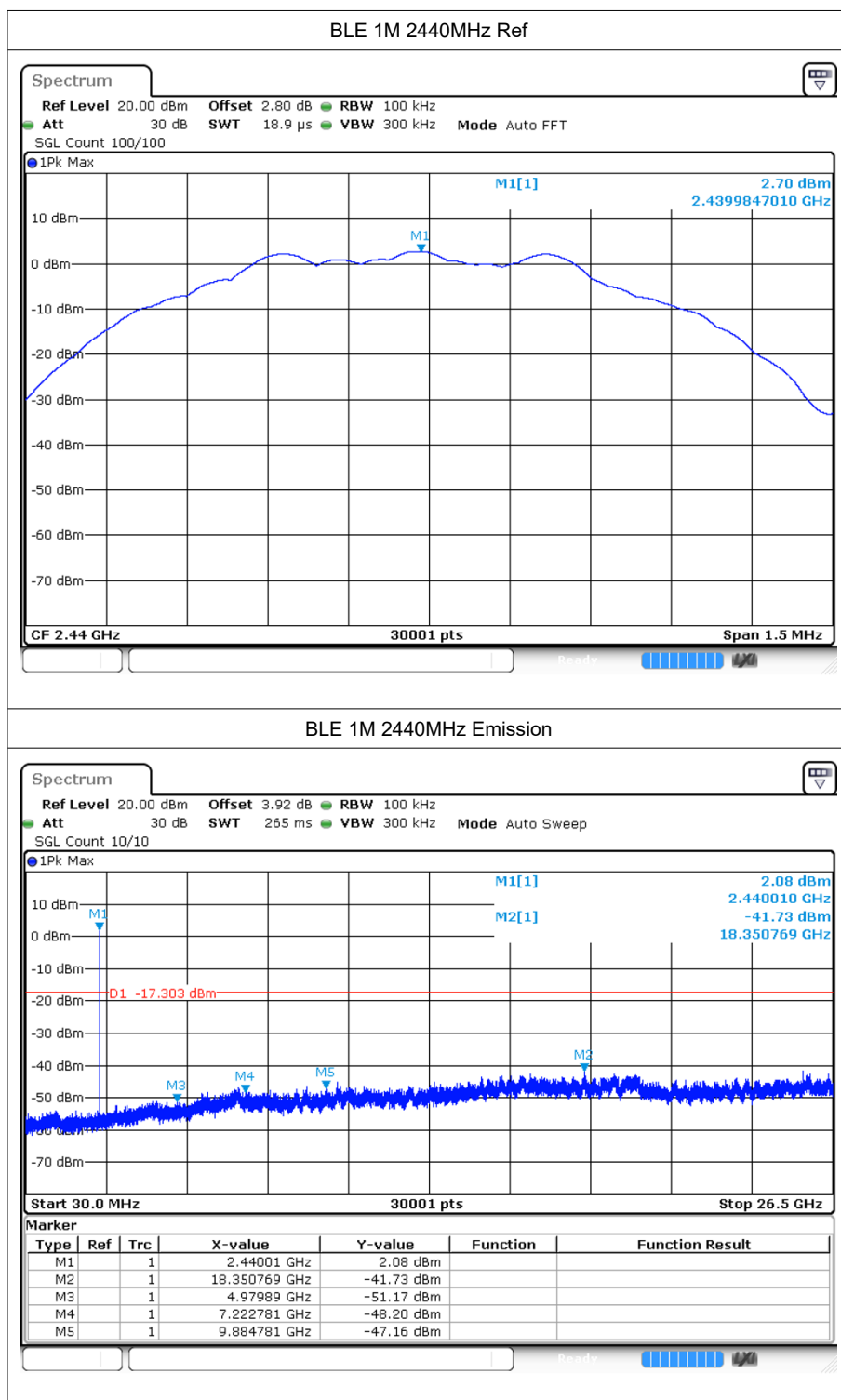
6 Conducted RF Spurious Emission

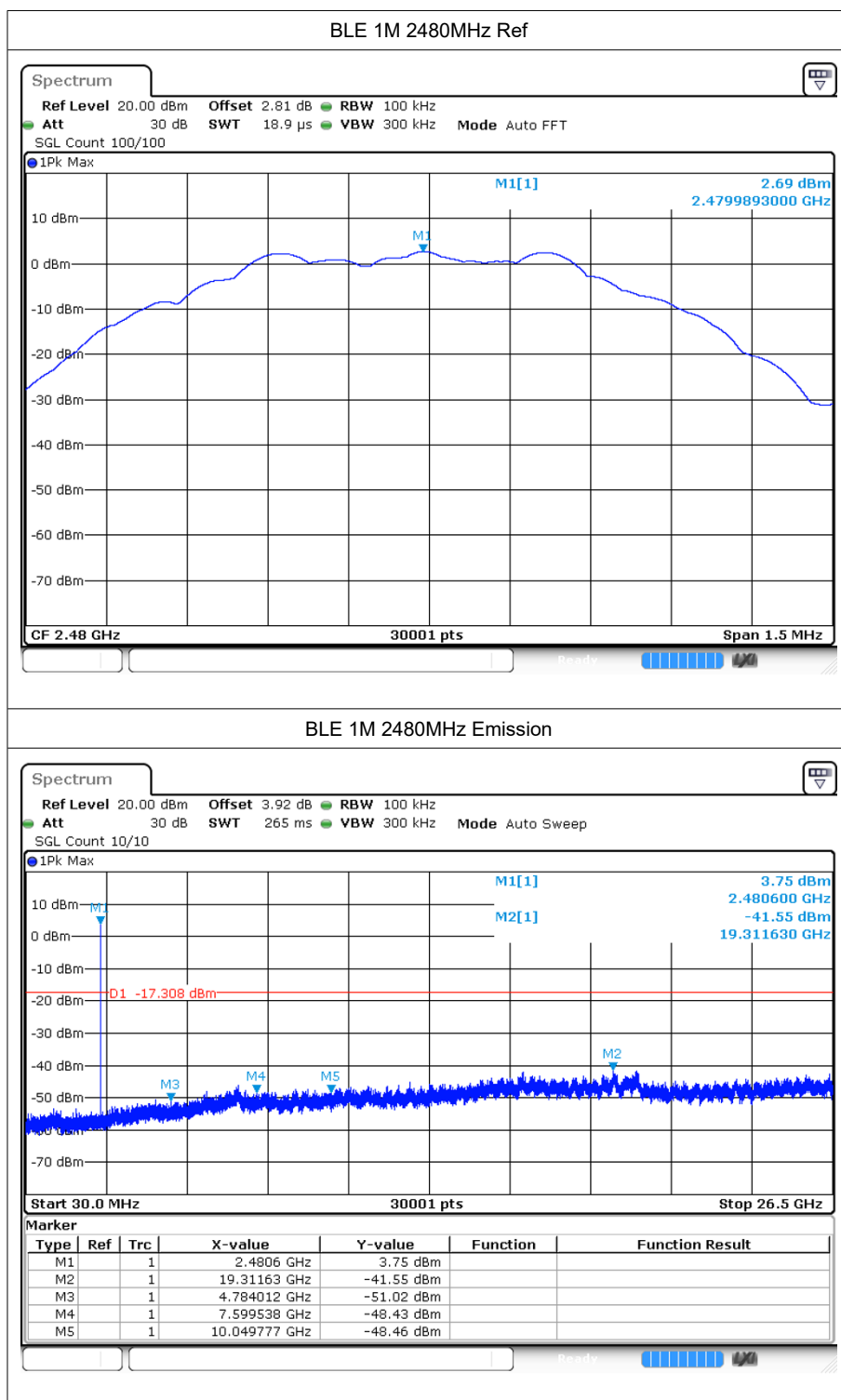
6.1 Test Result

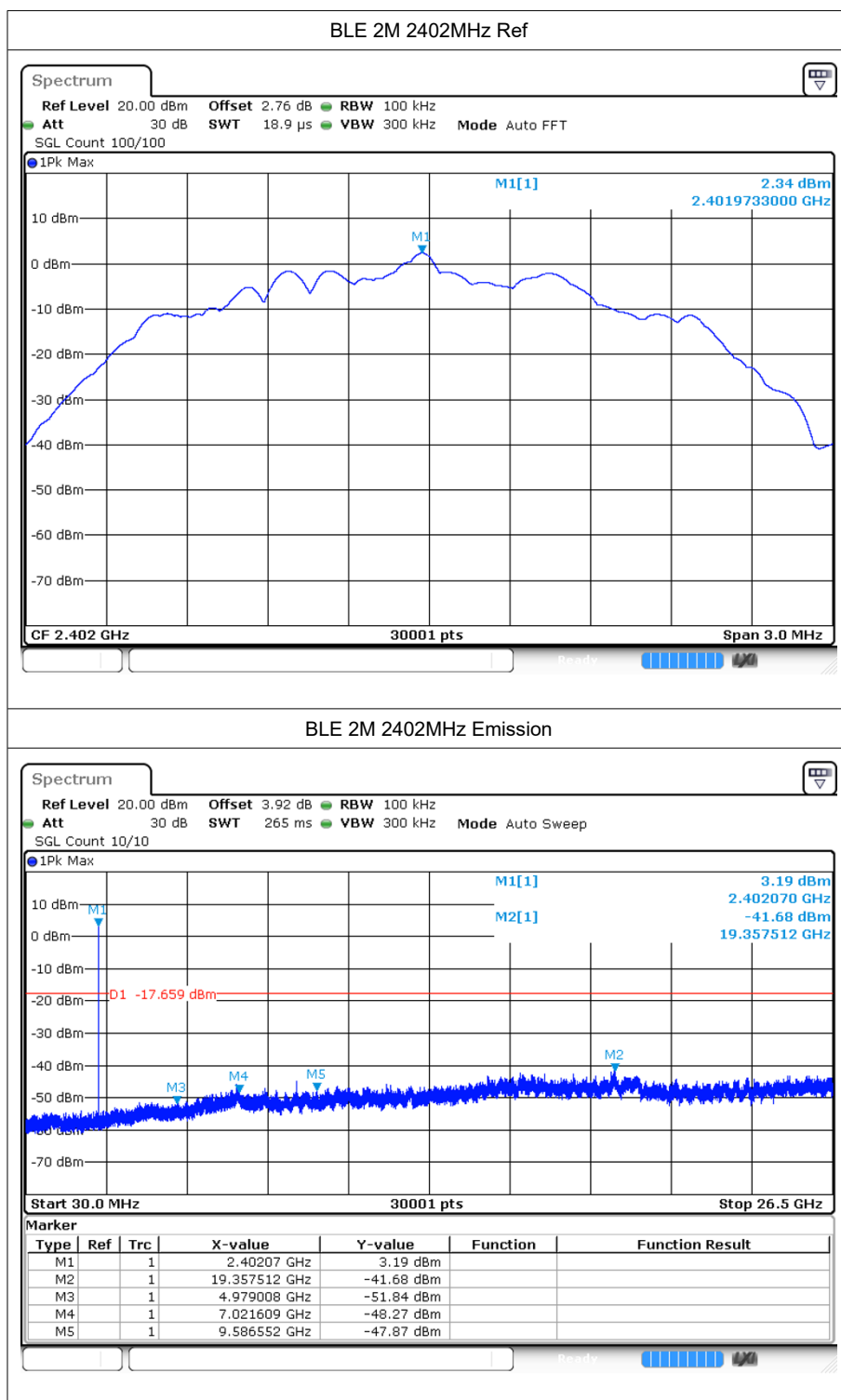
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-43.83	-20	Pass
BLE 1M	2440	-44.43	-20	Pass
BLE 1M	2480	-44.23	-20	Pass
BLE 2M	2402	-44.02	-20	Pass
BLE 2M	2440	-42.17	-20	Pass
BLE 2M	2480	-44.93	-20	Pass

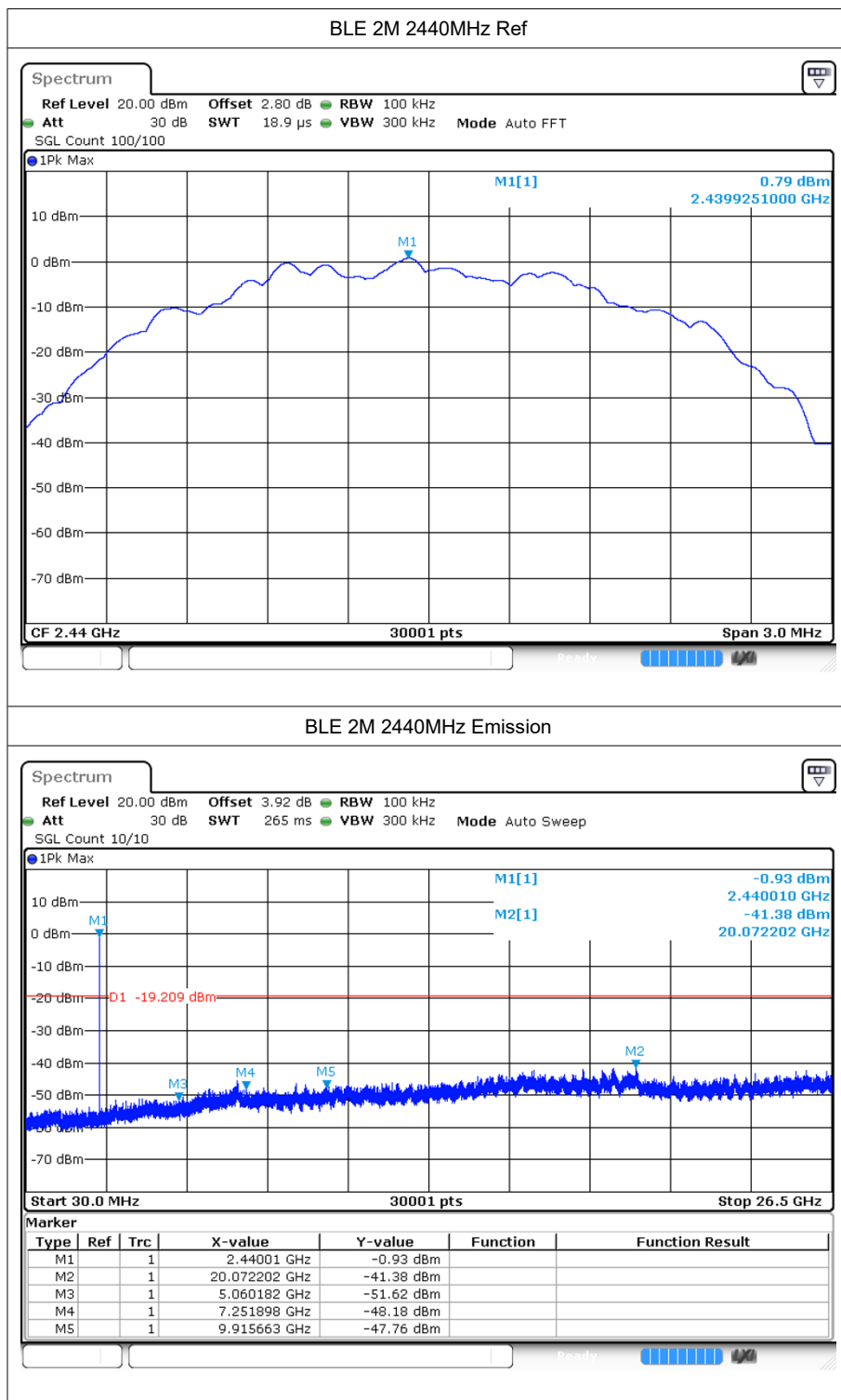
6.2 Test Graphs

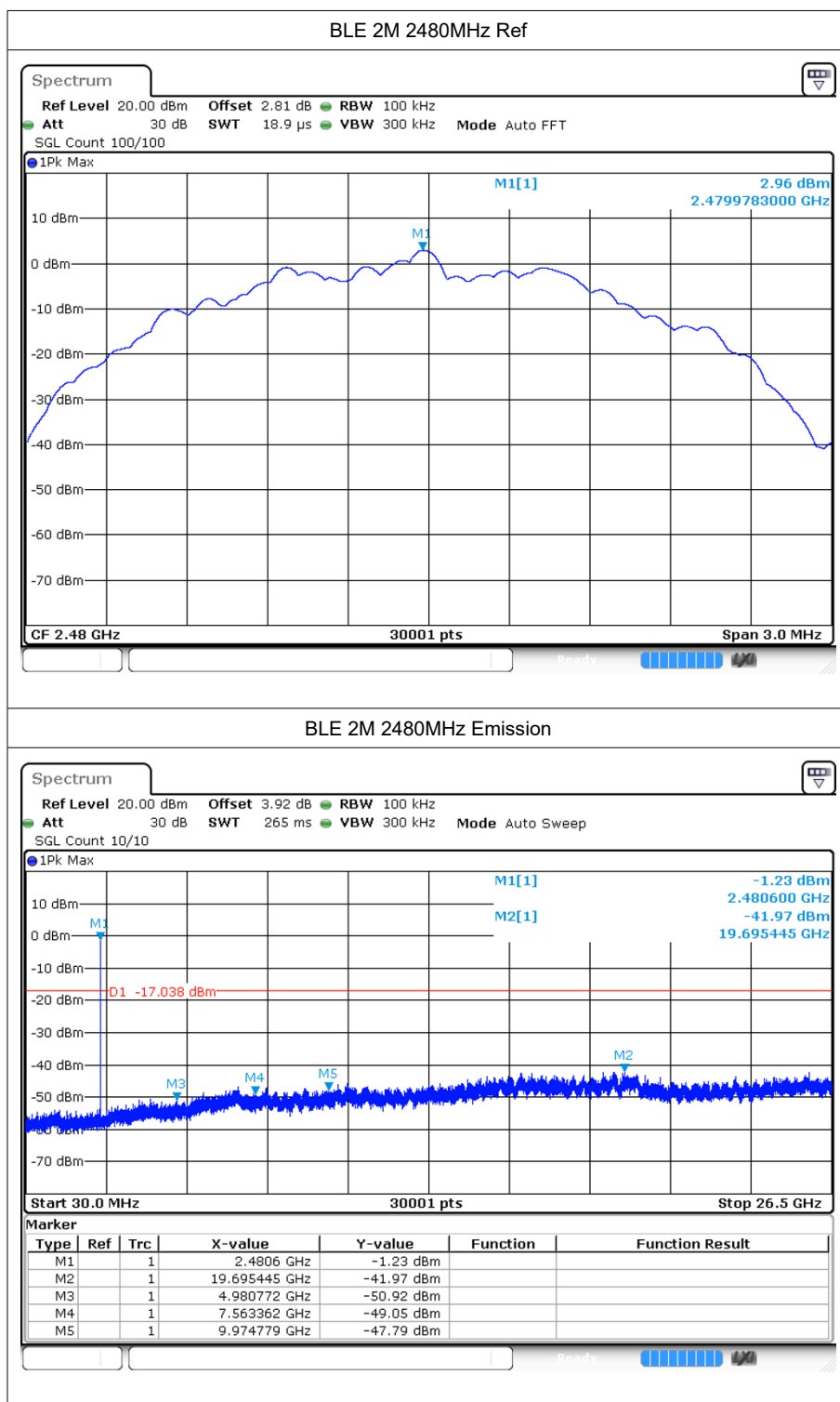












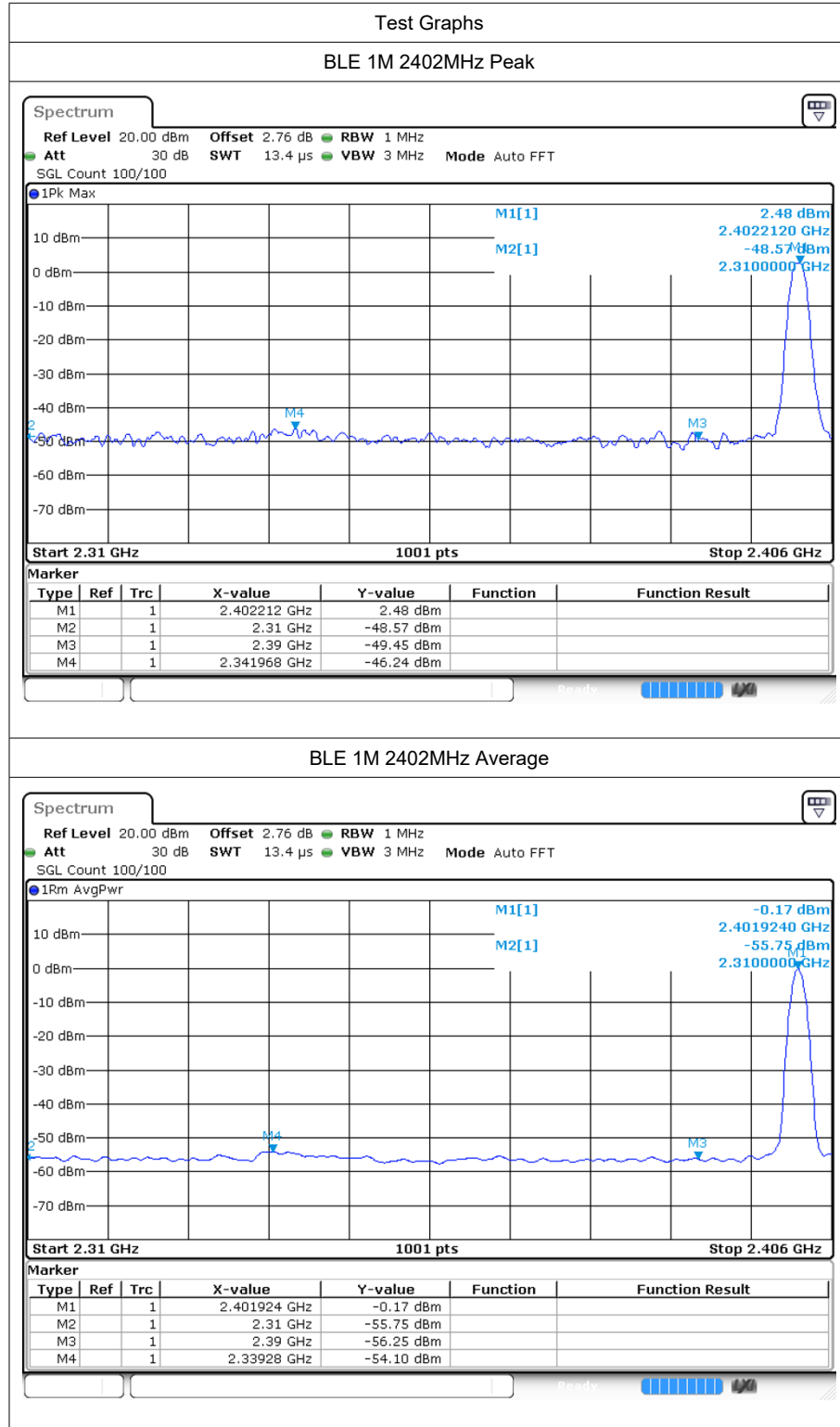


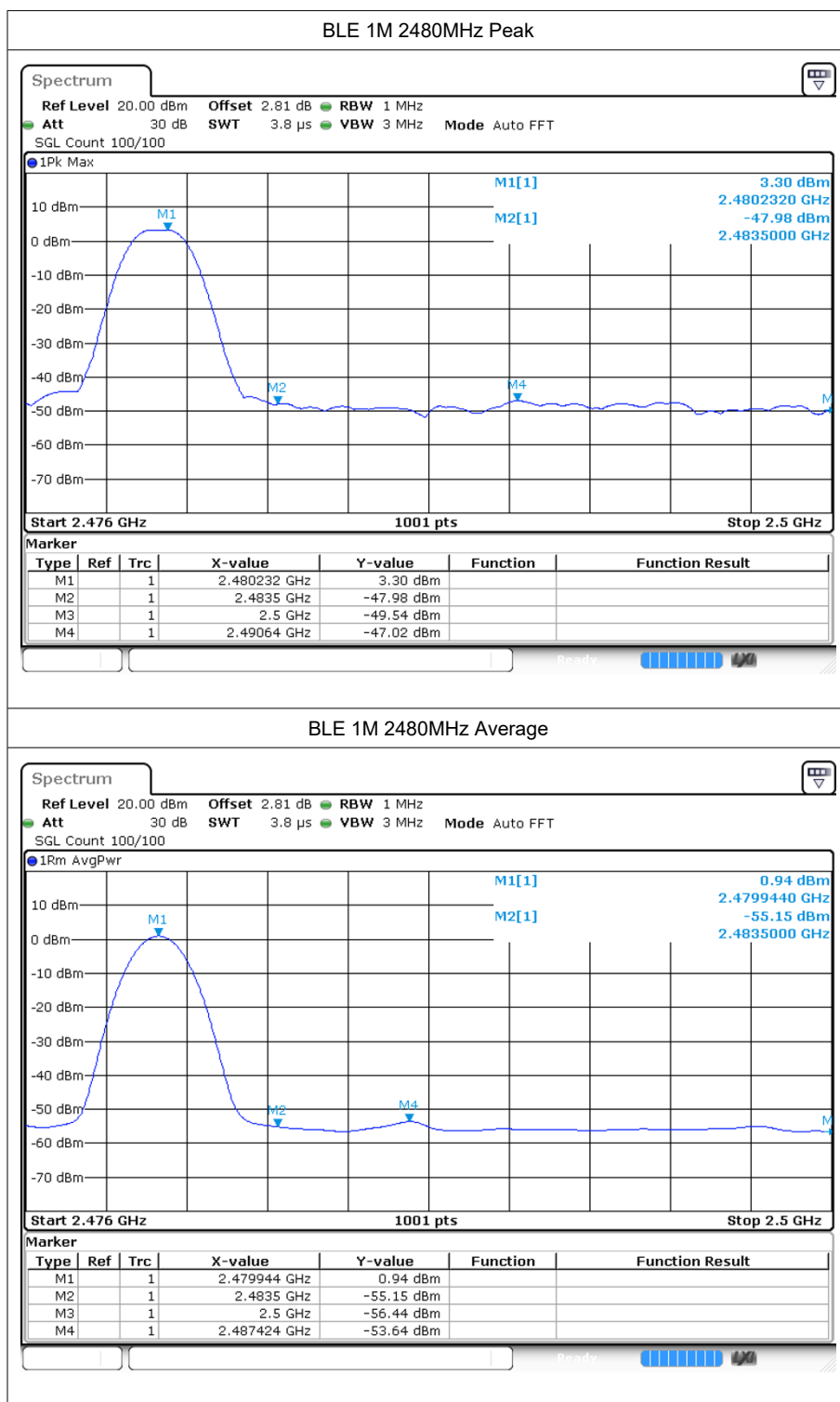
7 Restrict Band

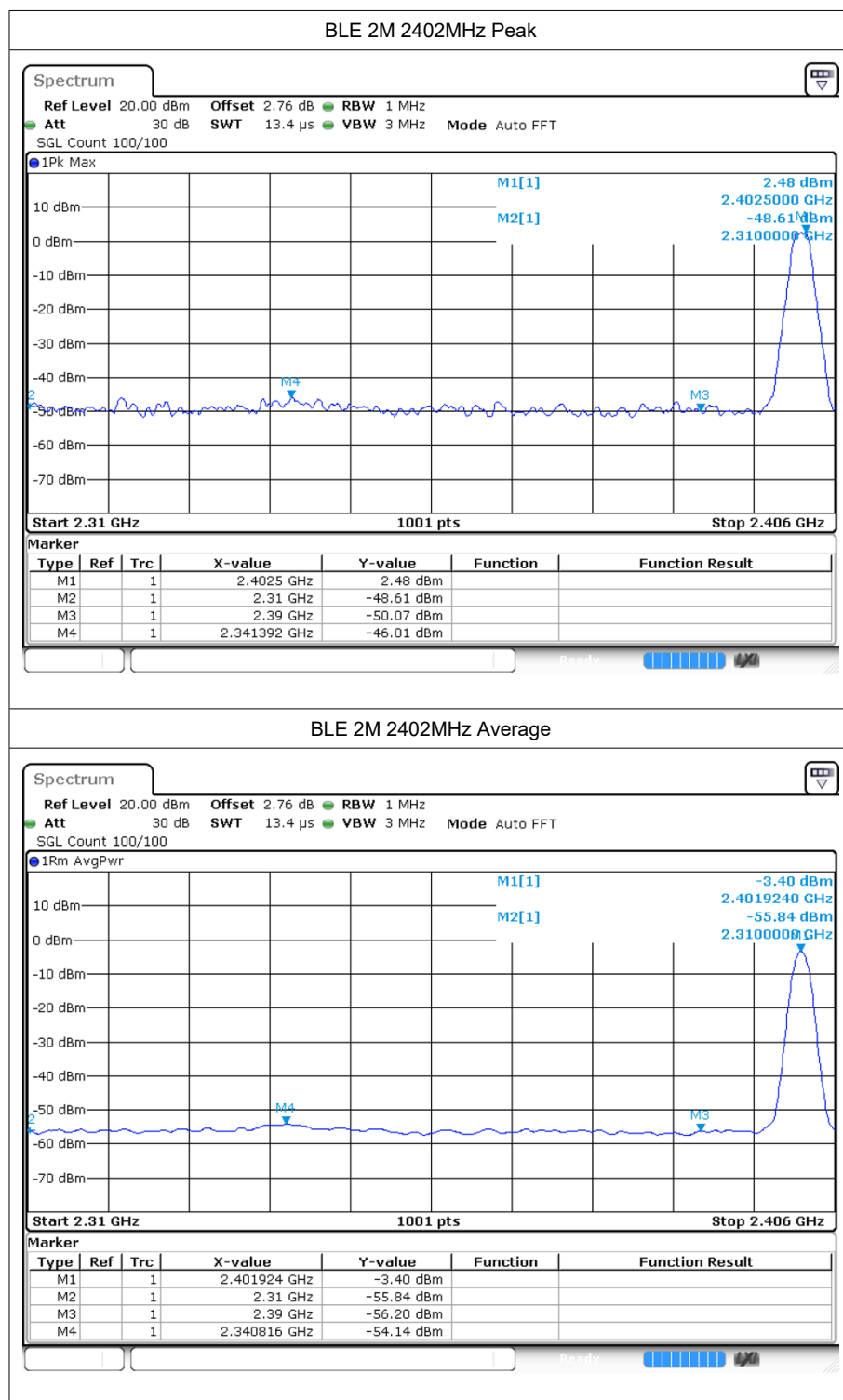
7.1 Test Result

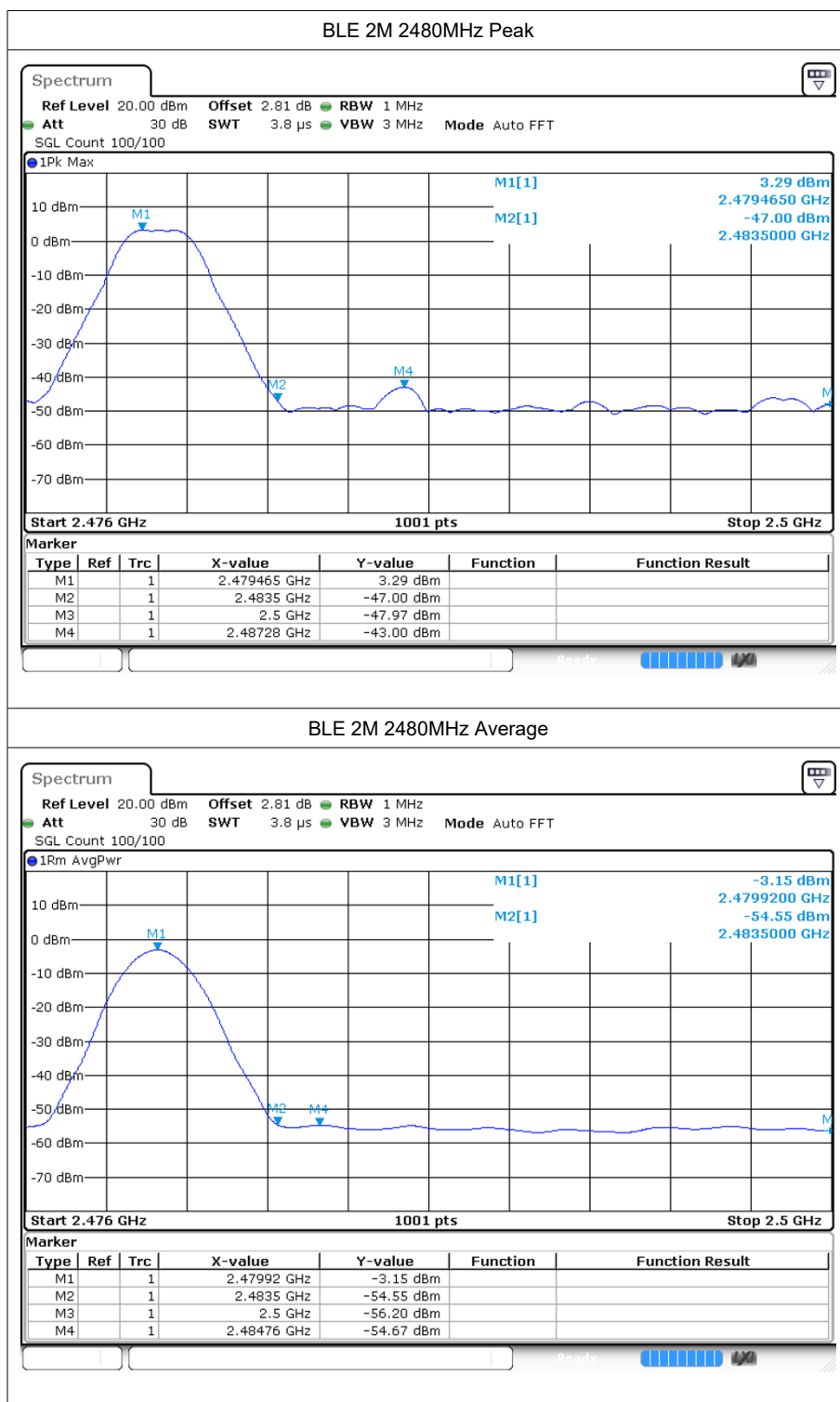
Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
BLE 1M	2402	2310	-48.57	2	-	48.69	Peak	74	Pass
BLE 1M	2402	2310	-55.75	2	1.94	43.45	Average	54	Pass
BLE 1M	2402	2341.968	-46.23	2	-	51.03	Peak	74	Pass
BLE 1M	2402	2339.28	-54.09	2	1.94	45.11	Average	54	Pass
BLE 1M	2402	2390	-49.45	2	-	47.81	Peak	74	Pass
BLE 1M	2402	2390	-56.25	2	1.94	42.95	Average	54	Pass
BLE 1M	2480	2483.5	-47.98	2	-	49.28	Peak	74	Pass
BLE 1M	2480	2483.5	-55.15	2	1.9	44.01	Average	54	Pass
BLE 1M	2480	2490.64	-47.01	2	-	50.25	Peak	74	Pass
BLE 1M	2480	2487.424	-53.63	2	1.9	45.53	Average	54	Pass
BLE 1M	2480	2500	-49.54	2	-	47.72	Peak	74	Pass
BLE 1M	2480	2500	-56.44	2	1.9	42.72	Average	54	Pass
BLE 2M	2402	2310	-48.61	2	-	48.65	Peak	74	Pass
BLE 2M	2402	2310	-55.84	2	4.6	46.02	Average	54	Pass
BLE 2M	2402	2341.392	-46.01	2	-	51.25	Peak	74	Pass
BLE 2M	2402	2340.816	-54.13	2	4.6	47.73	Average	54	Pass
BLE 2M	2402	2390	-50.07	2	-	47.19	Peak	74	Pass
BLE 2M	2402	2390	-56.2	2	4.6	45.66	Average	54	Pass
BLE 2M	2480	2483.5	-47	2	-	50.26	Peak	74	Pass
BLE 2M	2480	2483.5	-54.55	2	4.54	47.25	Average	54	Pass
BLE 2M	2480	2487.28	-42.99	2	-	54.27	Peak	74	Pass
BLE 2M	2480	2484.76	-54.66	2	4.54	47.14	Average	54	Pass
BLE 2M	2480	2500	-47.97	2	-	49.29	Peak	74	Pass
BLE 2M	2480	2500	-56.2	2	4.54	45.6	Average	54	Pass

7.2 Test Graphs









---The End---