

Appendix A:Test Results of Bluetooth BLE(ANT1)

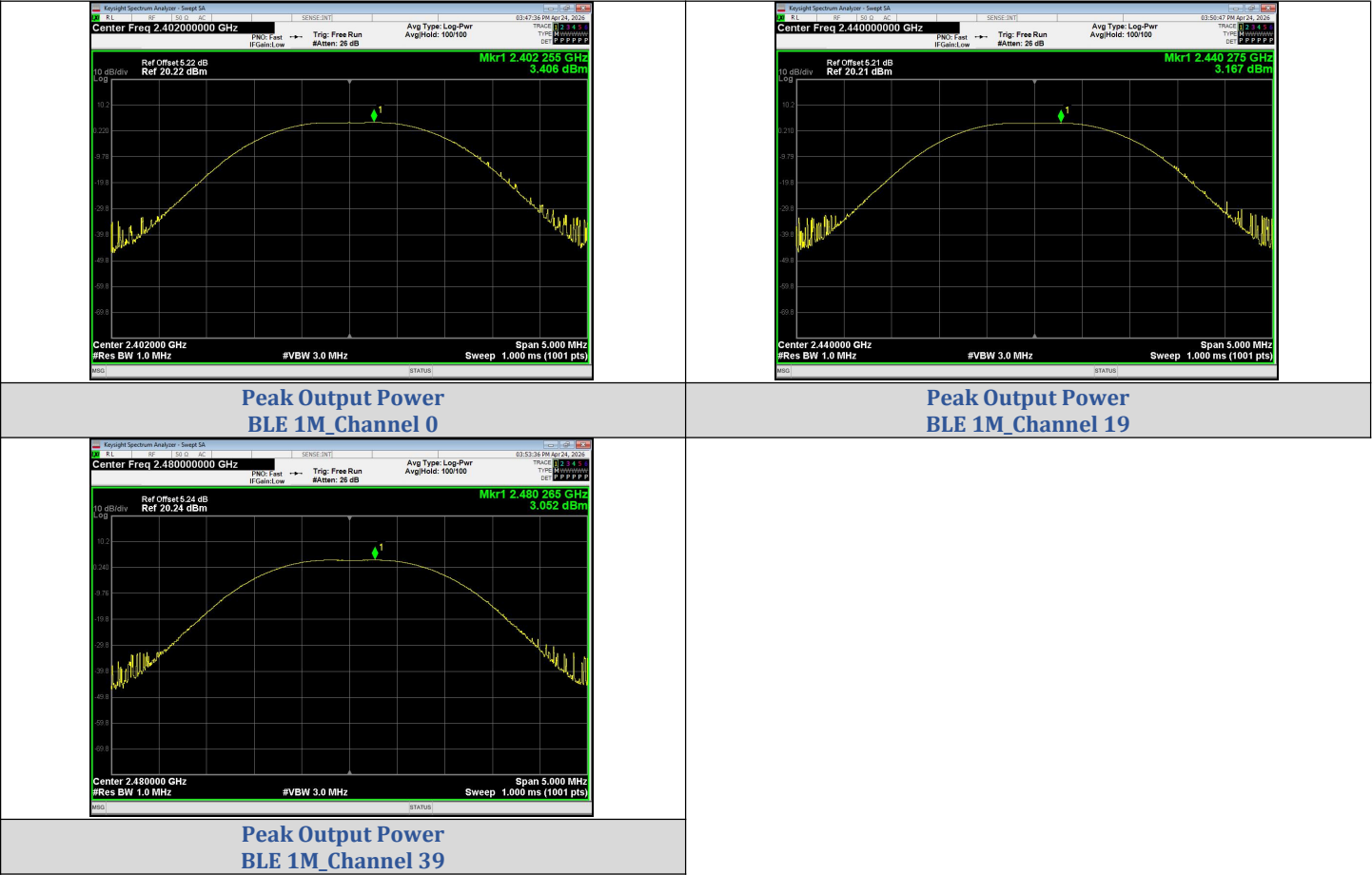
Conducted Output Power

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
BLE 1M	0	3.41	2.19	None	≤30	PASS
	19	3.17	2.07	None	≤30	PASS
	39	3.05	2.02	None	≤30	PASS

Mode	Channel	Peak Output Power (dBm)	Peak Power Limit (dBm)	ISED EIRP (dBm)	ISED EIRP Limit (dBm)	Max. Avg. Power (dBm)	Result
BLE 1M	0	3.41	≤30	3.406	≤36.02	None	PASS
	19	3.17	≤30	3.167	≤36.02	None	PASS
	39	3.05	≤30	3.052	≤36.02	None	PASS

Test Graphs

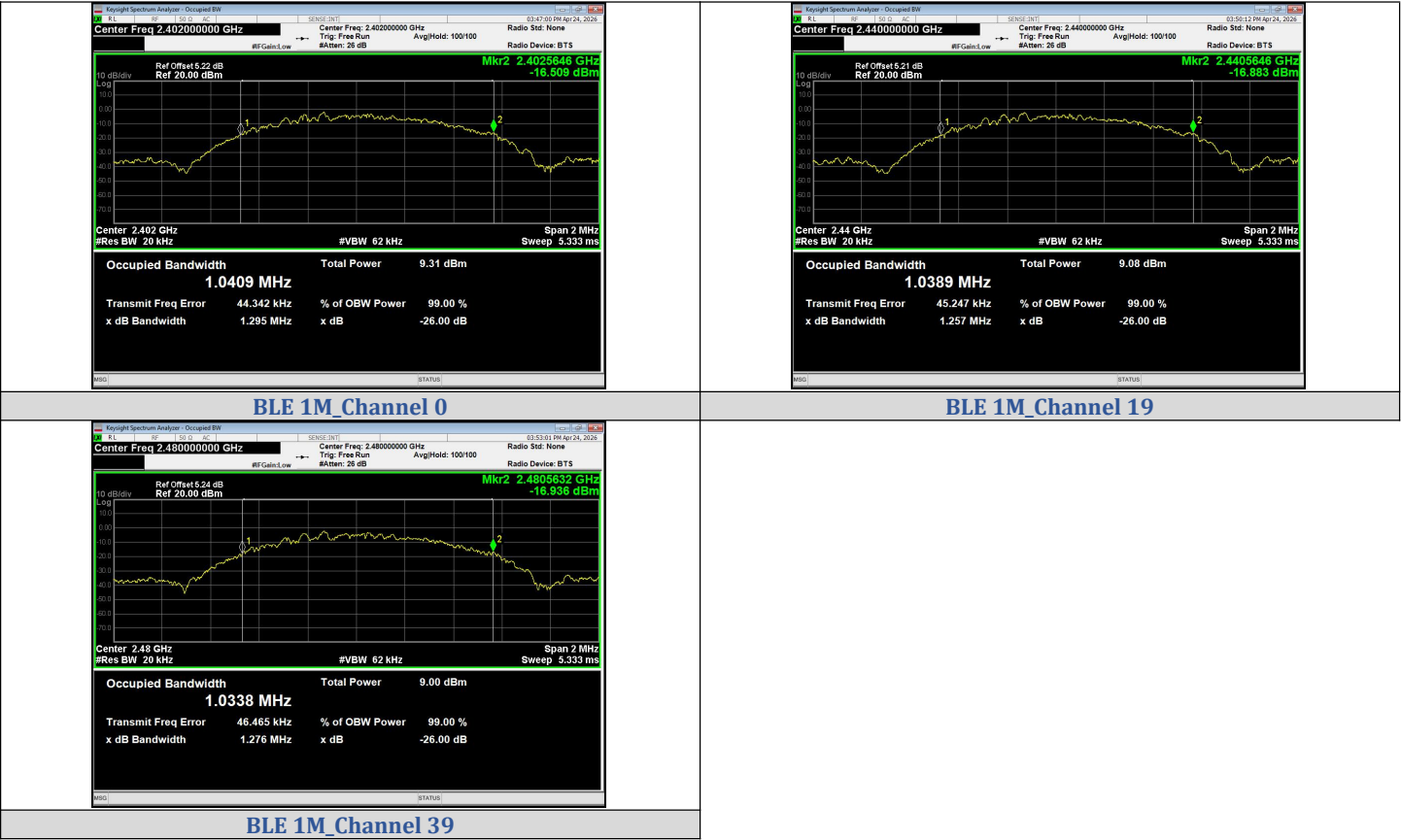


99% Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0409
BLE 1M	19	2440	1.0389
BLE 1M	39	2480	1.0338

Test Graphs

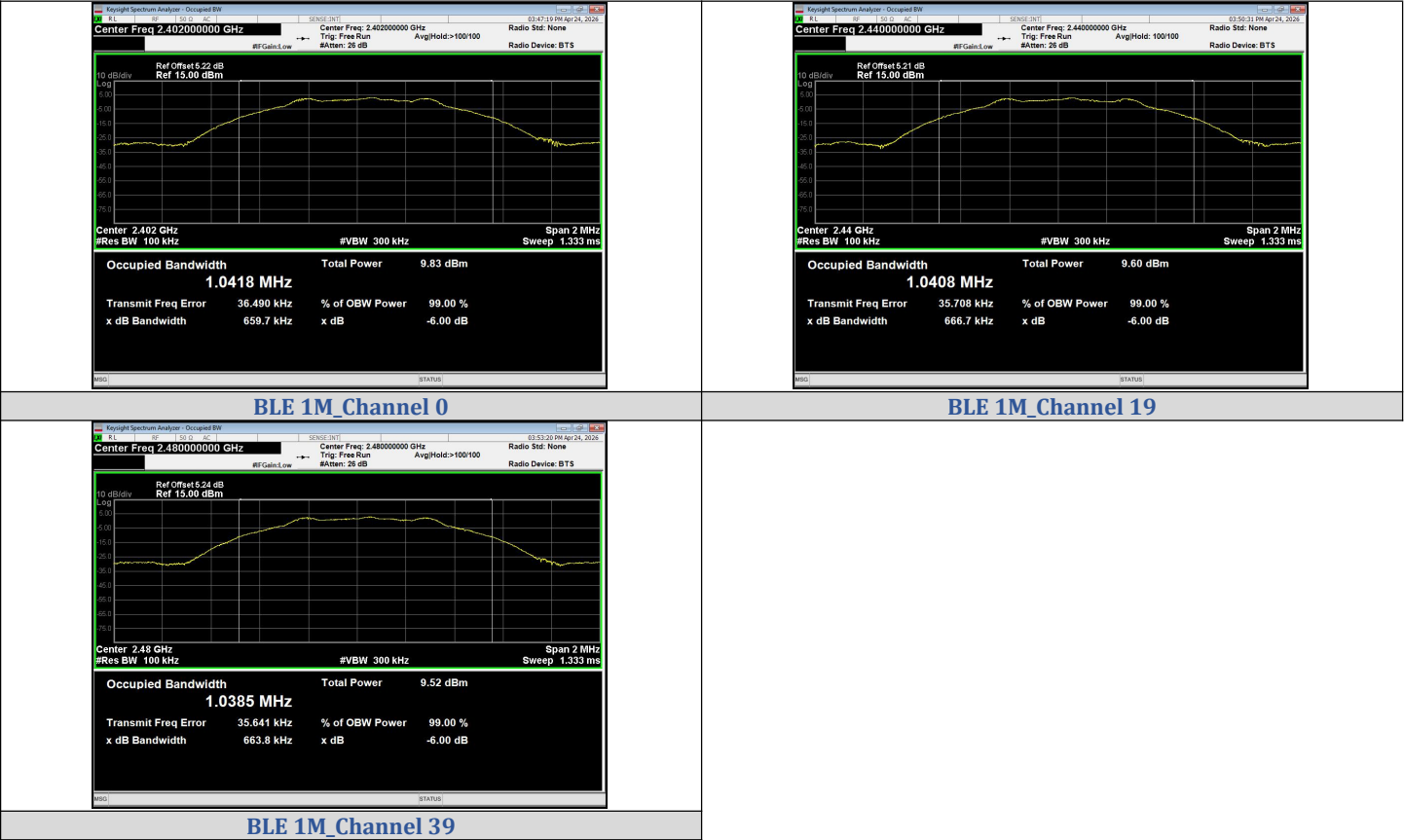


6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6597	≥0.5	PASS
	19	2440	0.6667		PASS
	39	2480	0.6638		PASS

Test Graphs



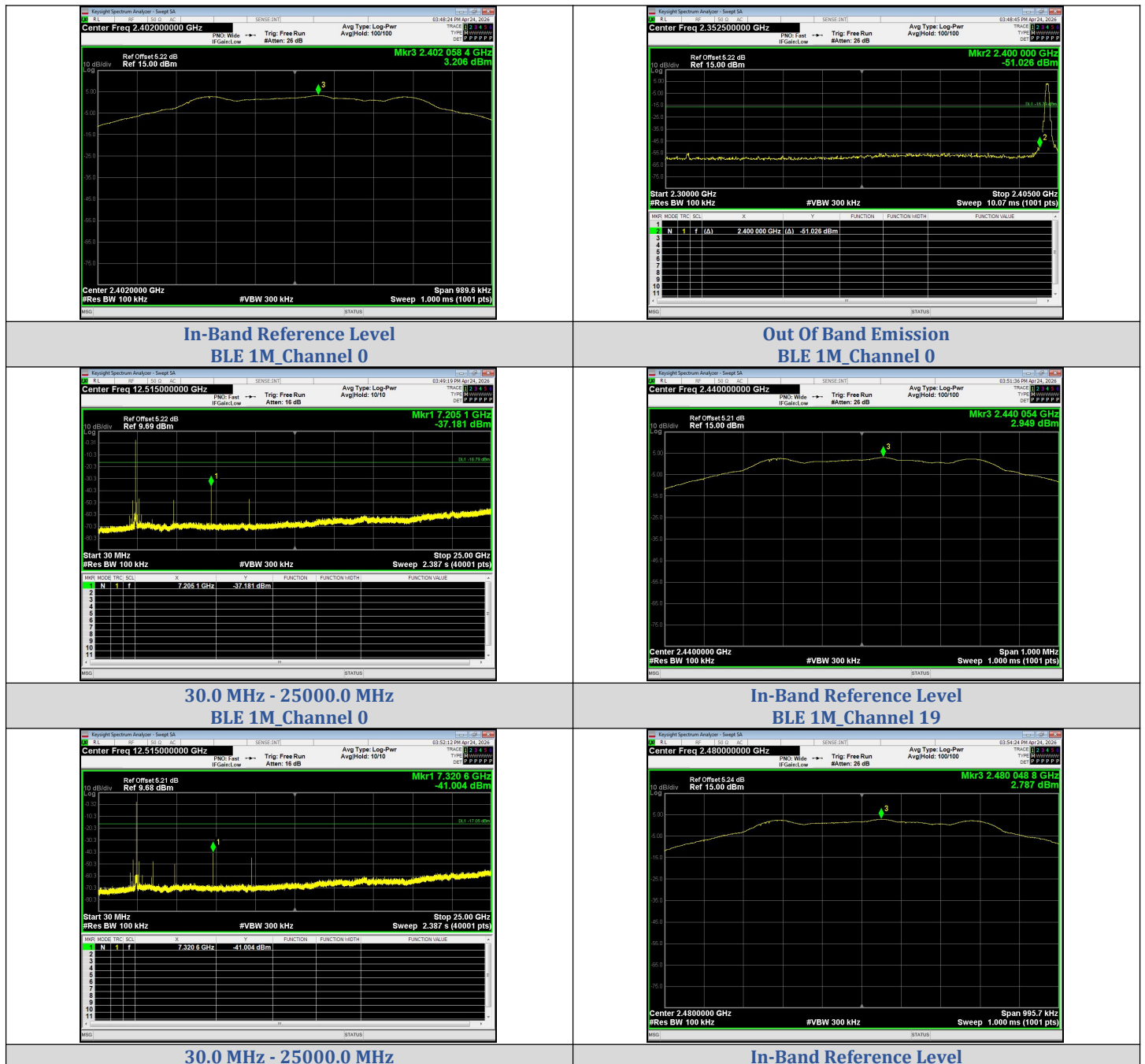
Conducted Spurious & Band Edge Emission

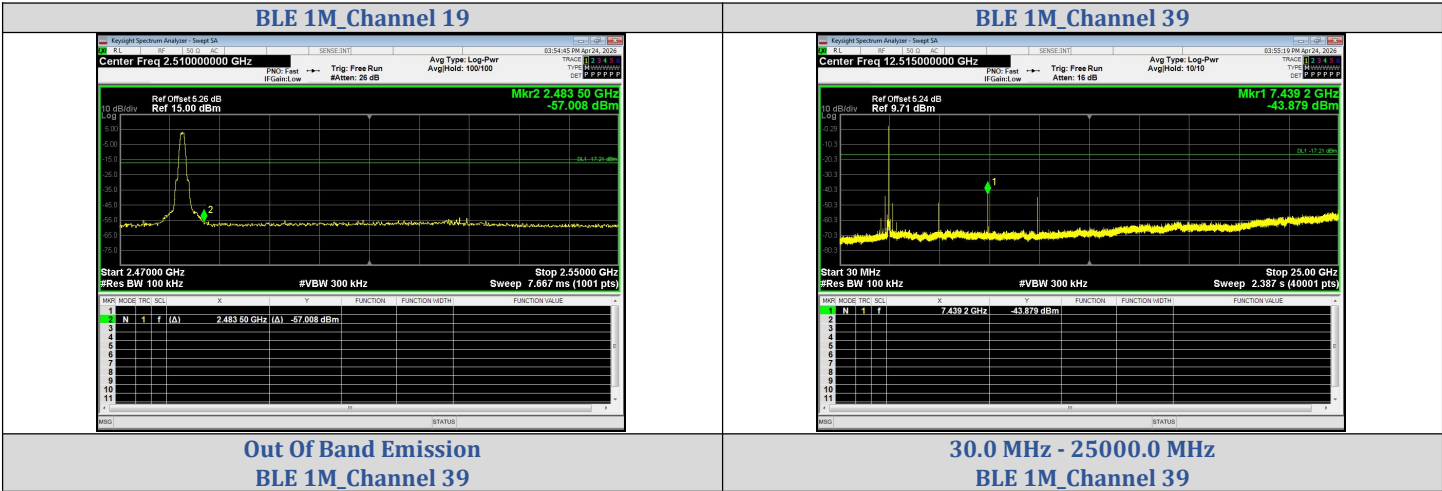
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-51.026	-16.79	-34.236	PASS
		7205.13	-37.181	-16.79	-20.392	PASS
	19	7320.62	-41.004	-17.05	-23.954	PASS
	39	2483.50	-57.008	-17.21	-39.798	PASS
		7439.22	-43.879	-17.21	-26.669	PASS

Note: input compensation coefficient (dB)= Cable Loss (dB)+Attenuator coefficient(dB)

Test Graphs





BLE 1M_Channel 39

Center Freq 12.515000000 GHz

Ref Offset 5.28 dB
Ref 9.71 dBm

Mkr1 7.439 2 GHz
-43.879 dBm

Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.387 s (40001 pts)

Mkr	Mode	Trc	SQL	X	Y	Function	Function (Math)	Function Value
3	N	1	F		7.439 2 GHz	-43.879 dBm		

30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39

Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-12.250	≤8	PASS
BLE 1M	19	-12.390	≤8	PASS
BLE 1M	39	-12.570	≤8	PASS

Test Graphs

