

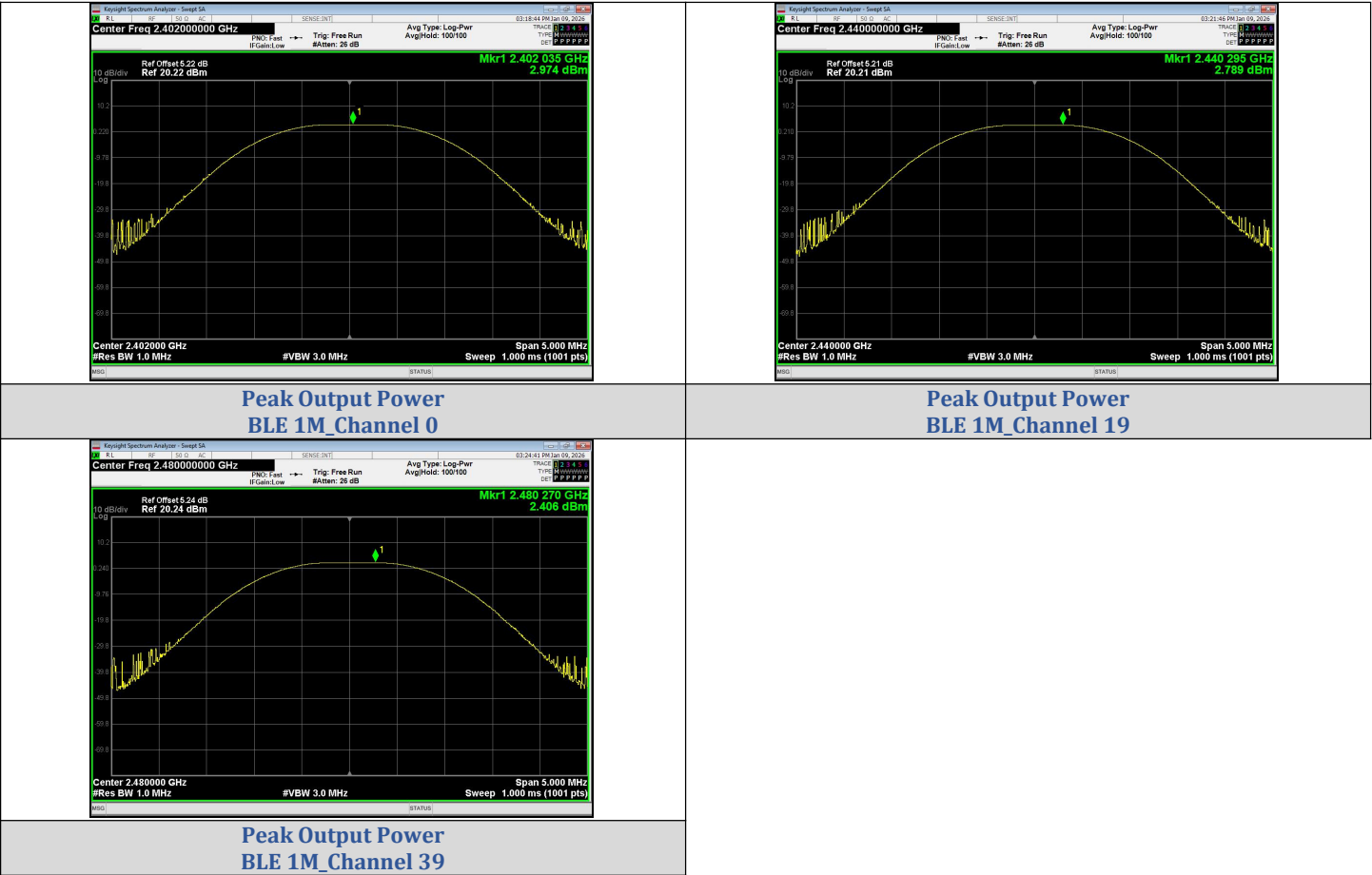
Appendix A: Test Results of Bluetooth BLE

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	2.97	1.98	None	≤30	PASS
	19	2.79	1.90	None	≤30	PASS
	39	2.41	1.74	None	≤30	PASS

Test Graphs

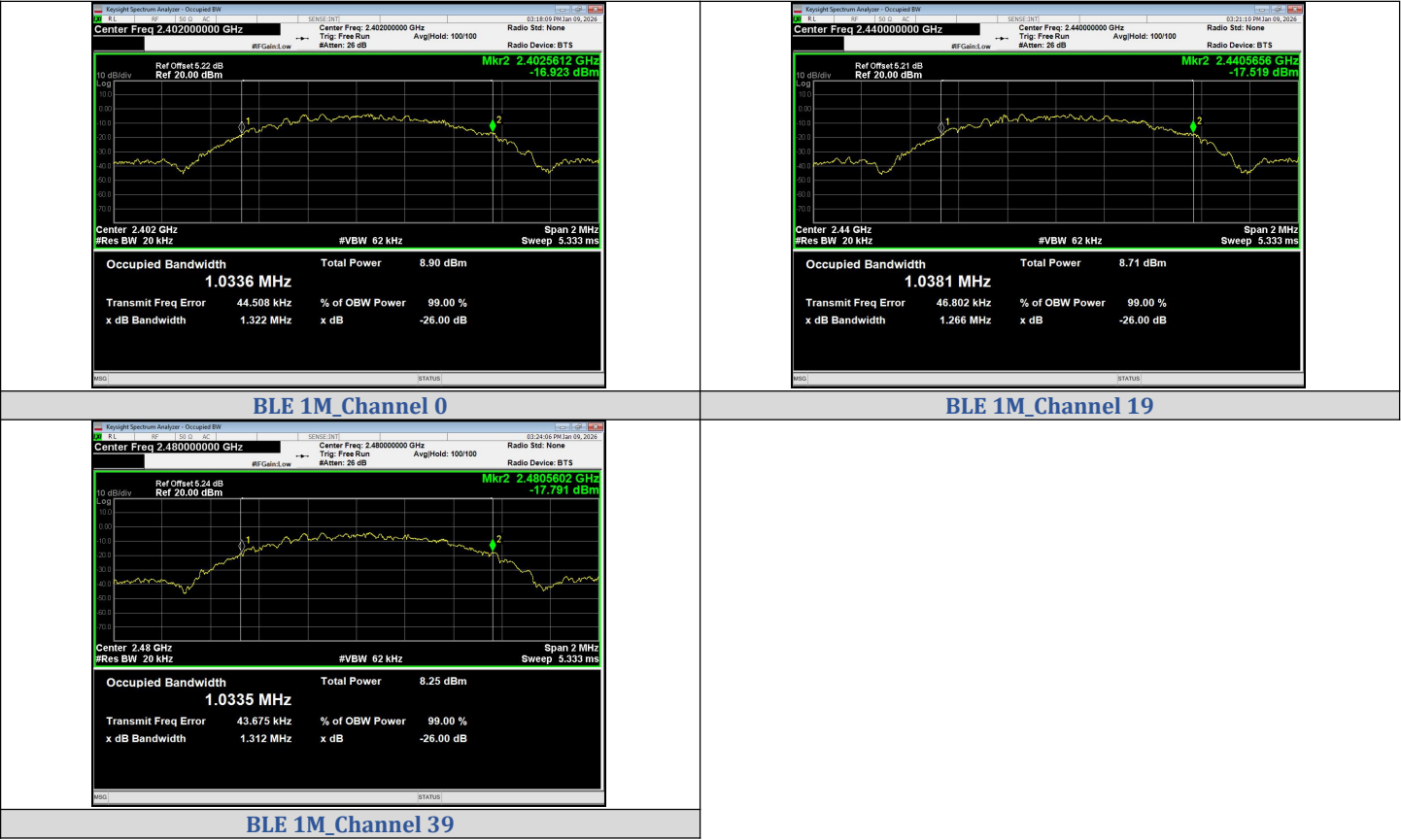


99% Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0336
BLE 1M	19	2440	1.0381
BLE 1M	39	2480	1.0335

Test Graphs

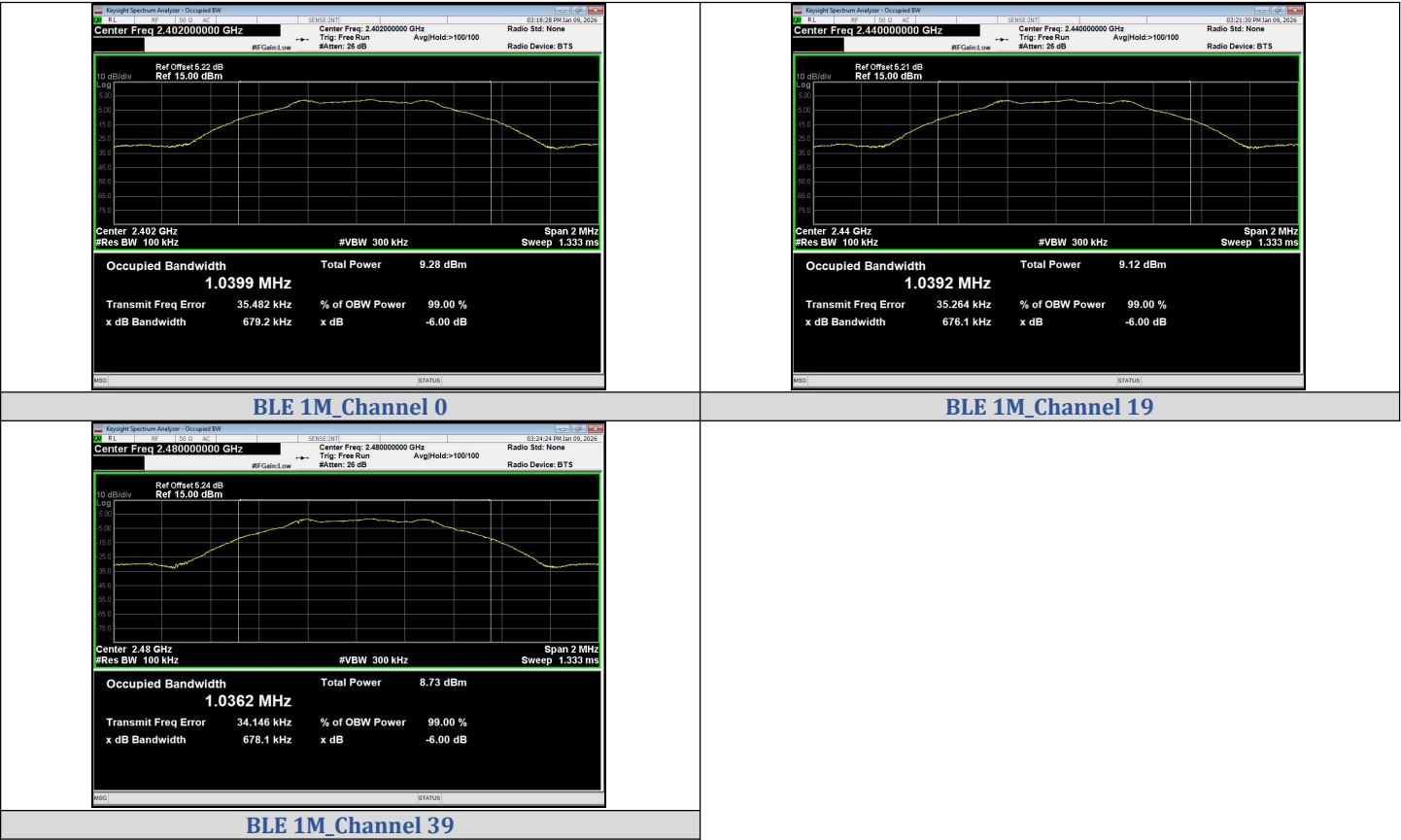


6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6792	≥0.5	PASS
	19	2440	0.6761		PASS
	39	2480	0.6781		PASS

Test Graphs



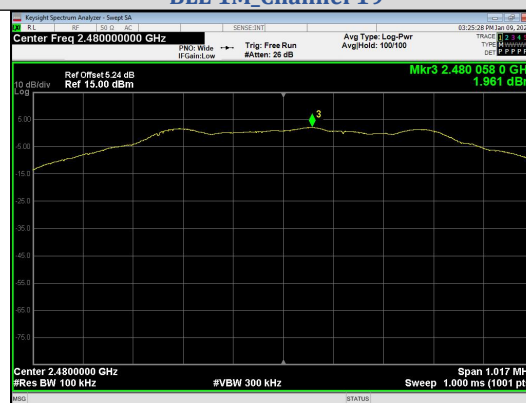
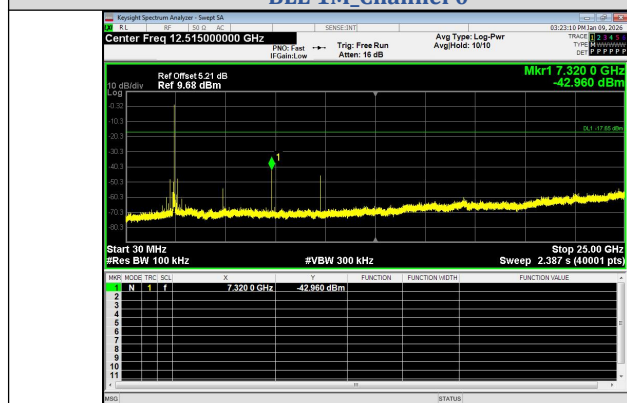
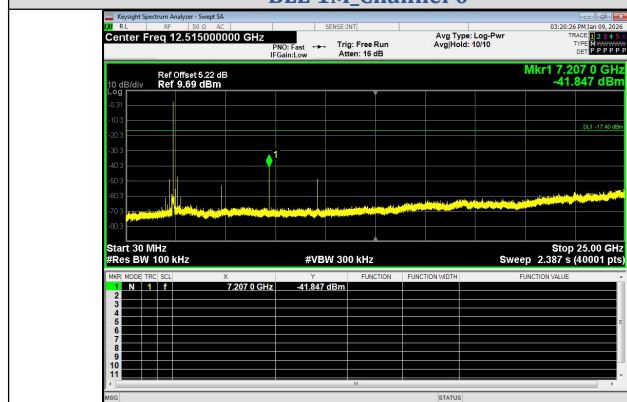
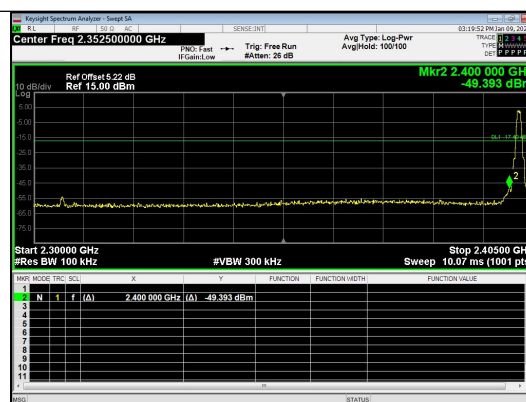
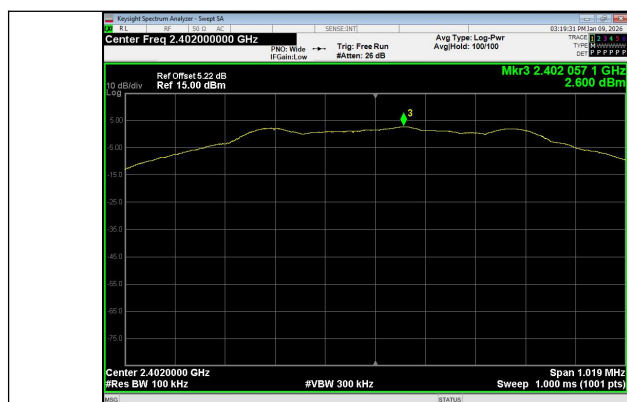
Conducted Spurious & Band Edge Emission

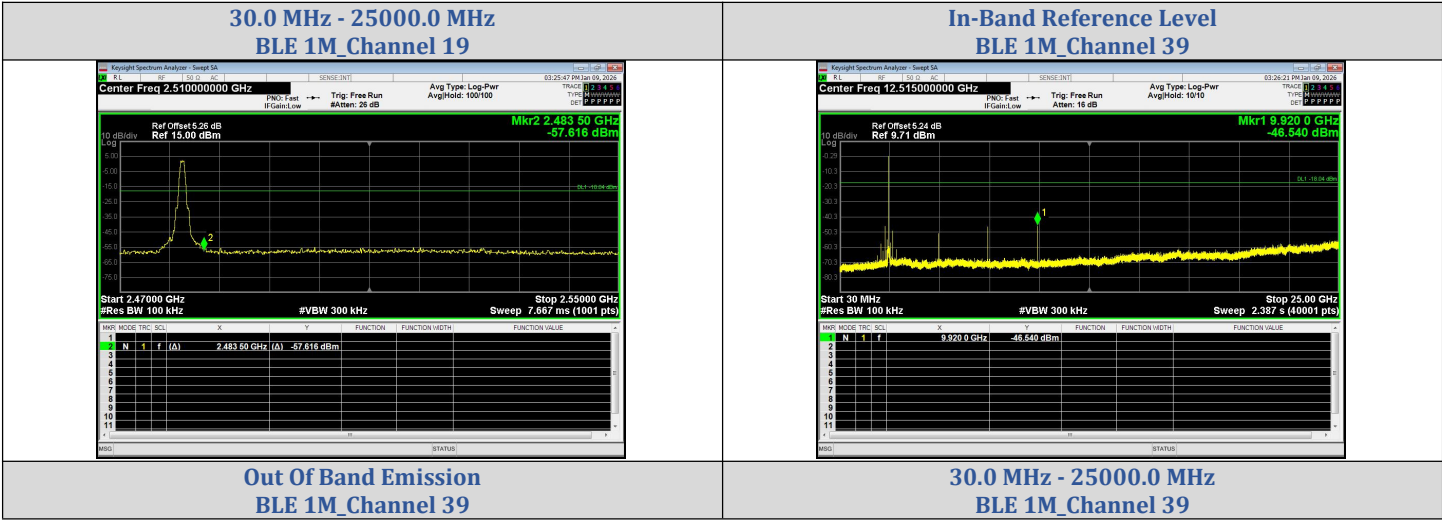
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-49.393	-17.4	-31.993	PASS
		7207.00	-41.847	-17.4	-24.447	PASS
	19	7319.99	-42.960	-17.65	-25.310	PASS
	39	2483.50	-57.616	-18.04	-39.576	PASS
		9919.99	-46.540	-18.04	-28.500	PASS

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

Test Graphs



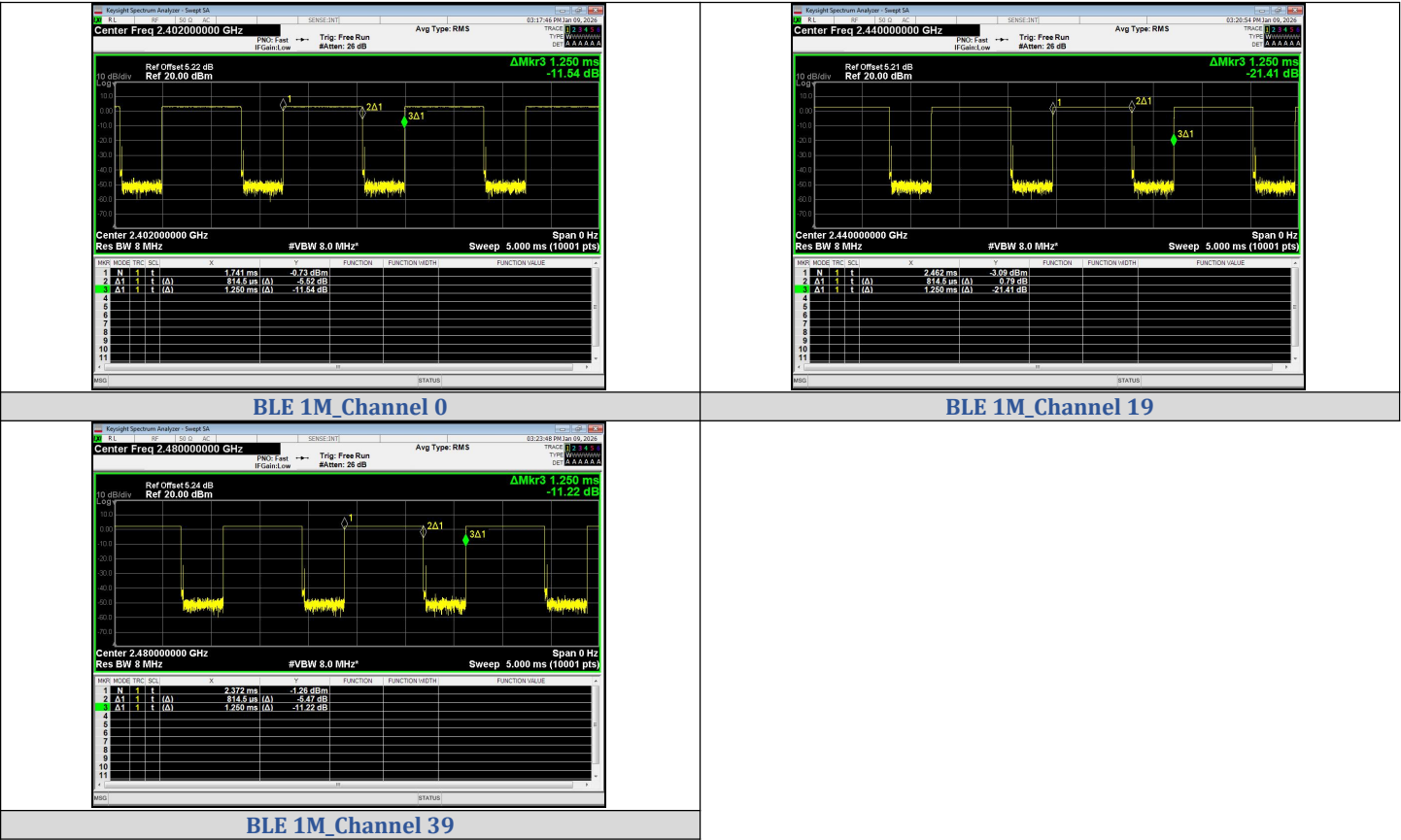


Duty Cycle

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	0.815	1.250	65.19	0.6519	1.8582	1.2270
	19	0.814	1.250	65.19	0.6519	1.8582	1.2285
	39	0.815	1.250	65.19	0.6519	1.8582	1.2270

Test Graphs



Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-13.120	≤8	PASS
BLE 1M	19	-13.250	≤8	PASS
BLE 1M	39	-13.860	≤8	PASS

Test Graphs

