

Appendix A: Test Results of Bluetooth BLE

Conducted Output Power

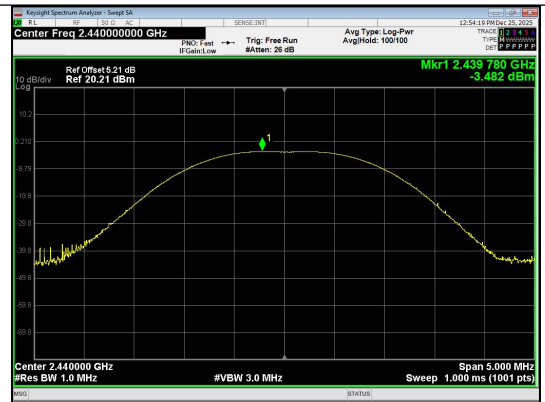
Test Result

Mode	Channel	Peak Output Power (dBm)	Limit (dBm)	Result
BLE 1M	0	-3.43	≤30	PASS
	19	-3.48	≤30	PASS
	39	-2.75	≤30	PASS

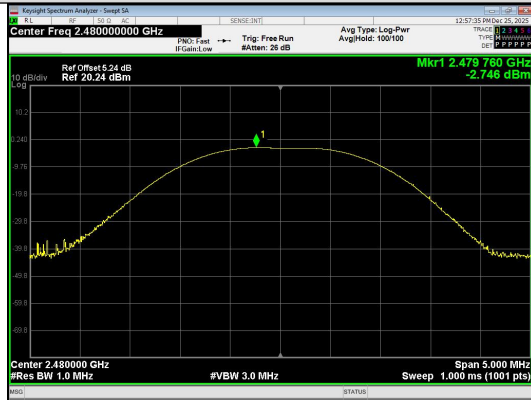
Test Graphs



**Peak Output Power
BLE 1M_Channel 0**



**Peak Output Power
BLE 1M_Channel 19**



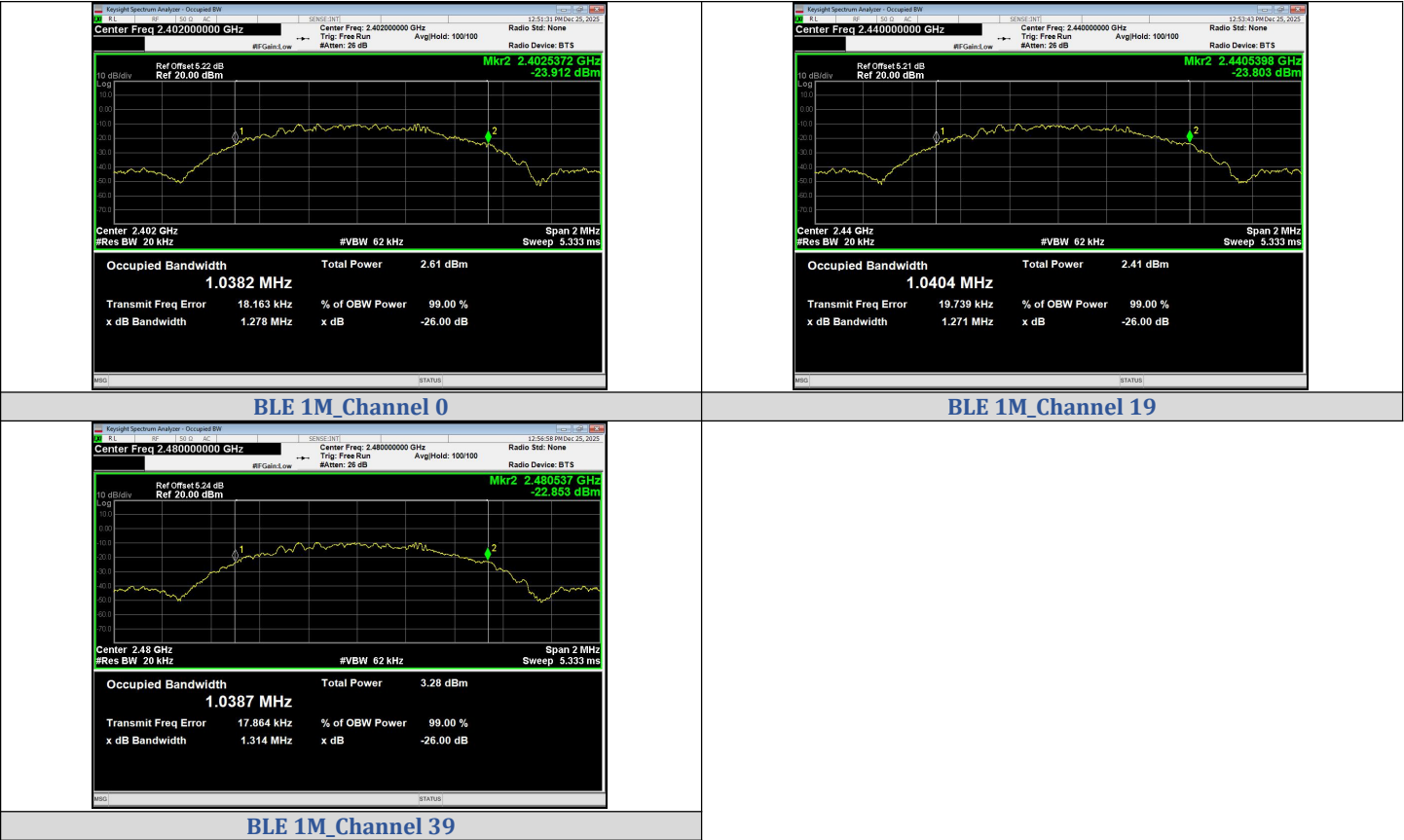
**Peak Output Power
BLE 1M_Channel 39**

99% Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0382
BLE 1M	19	2440	1.0404
BLE 1M	39	2480	1.0387

Test Graphs

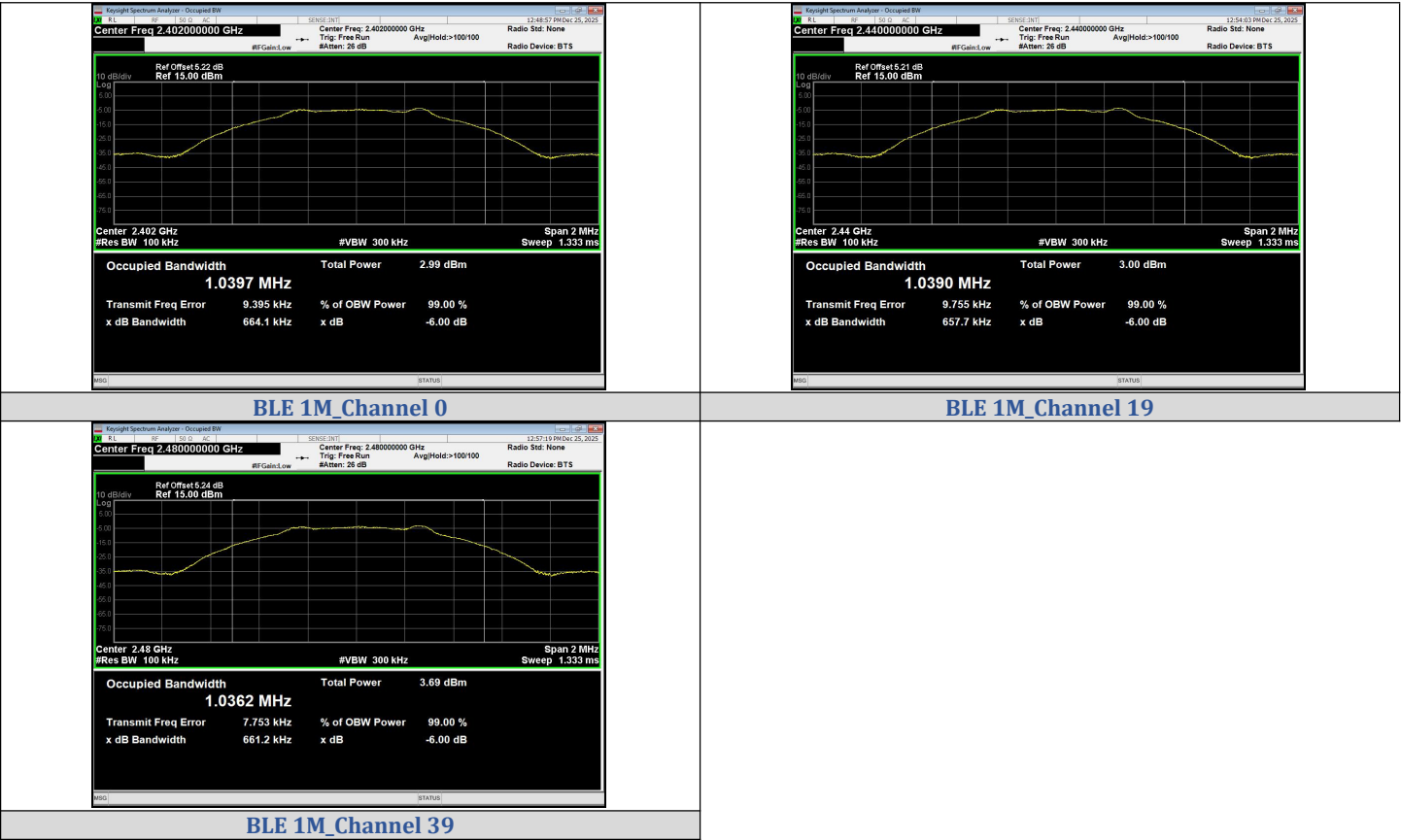


6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6641	≥0.5	PASS
	19	2440	0.6577		PASS
	39	2480	0.6612		PASS

Test Graphs

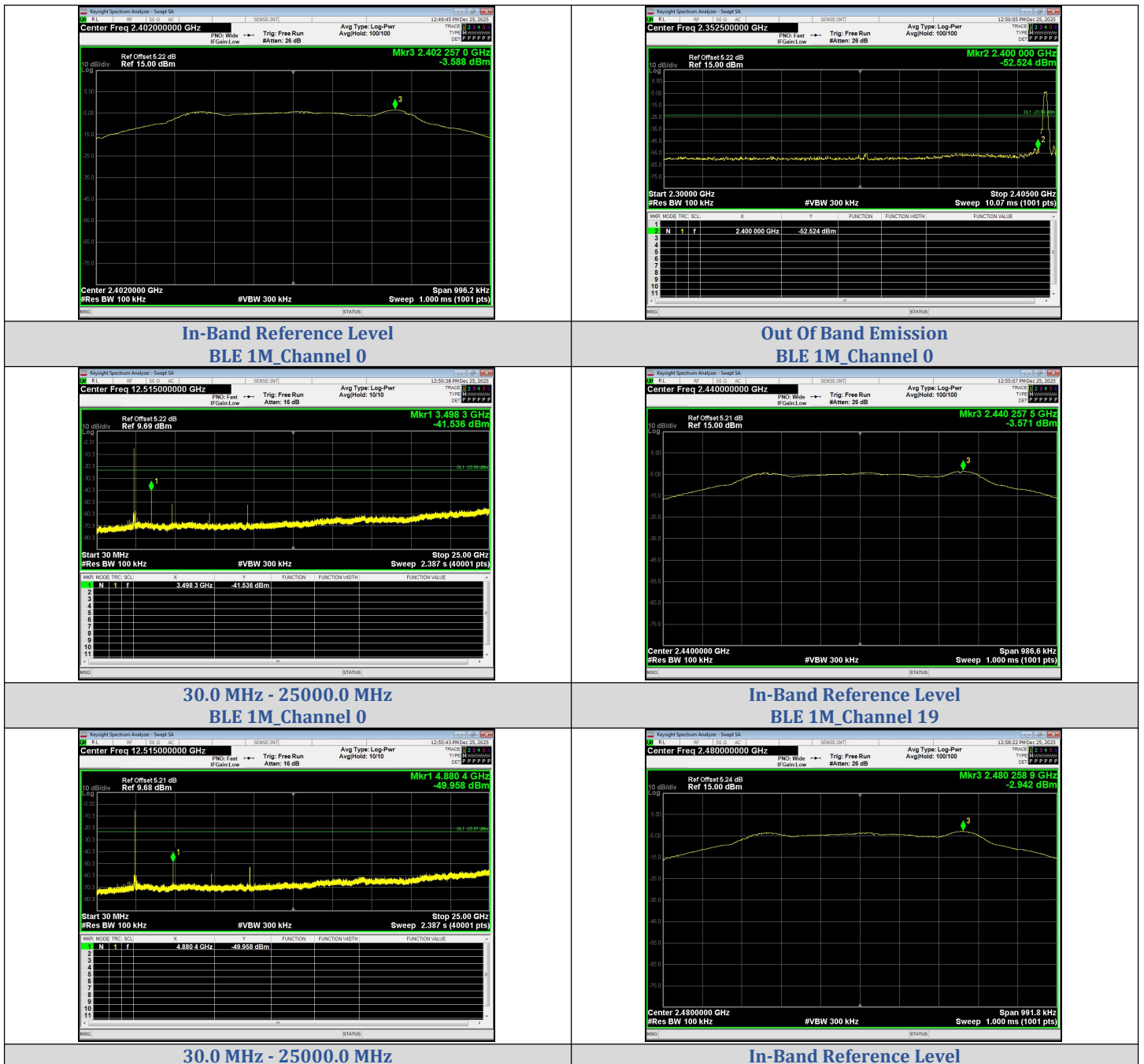


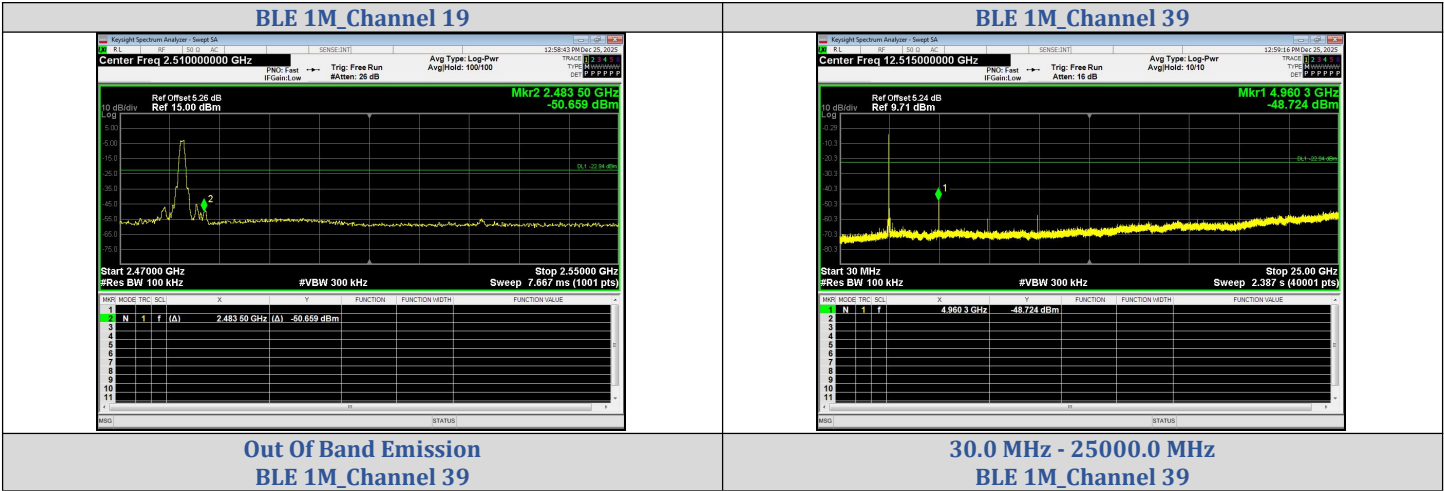
Conducted Spurious & Band Edge Emission

Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-52.524	-23.59	-28.934	PASS
		3498.33	-41.536	-23.59	-17.946	PASS
	19	4880.42	-49.958	-23.57	-26.388	PASS
	39	2483.50	-50.659	-22.94	-27.719	PASS
		4960.33	-48.724	-22.94	-25.784	PASS
Note: input compensation coefficient (dB)= Cable Loss (dB)						

Test Graphs



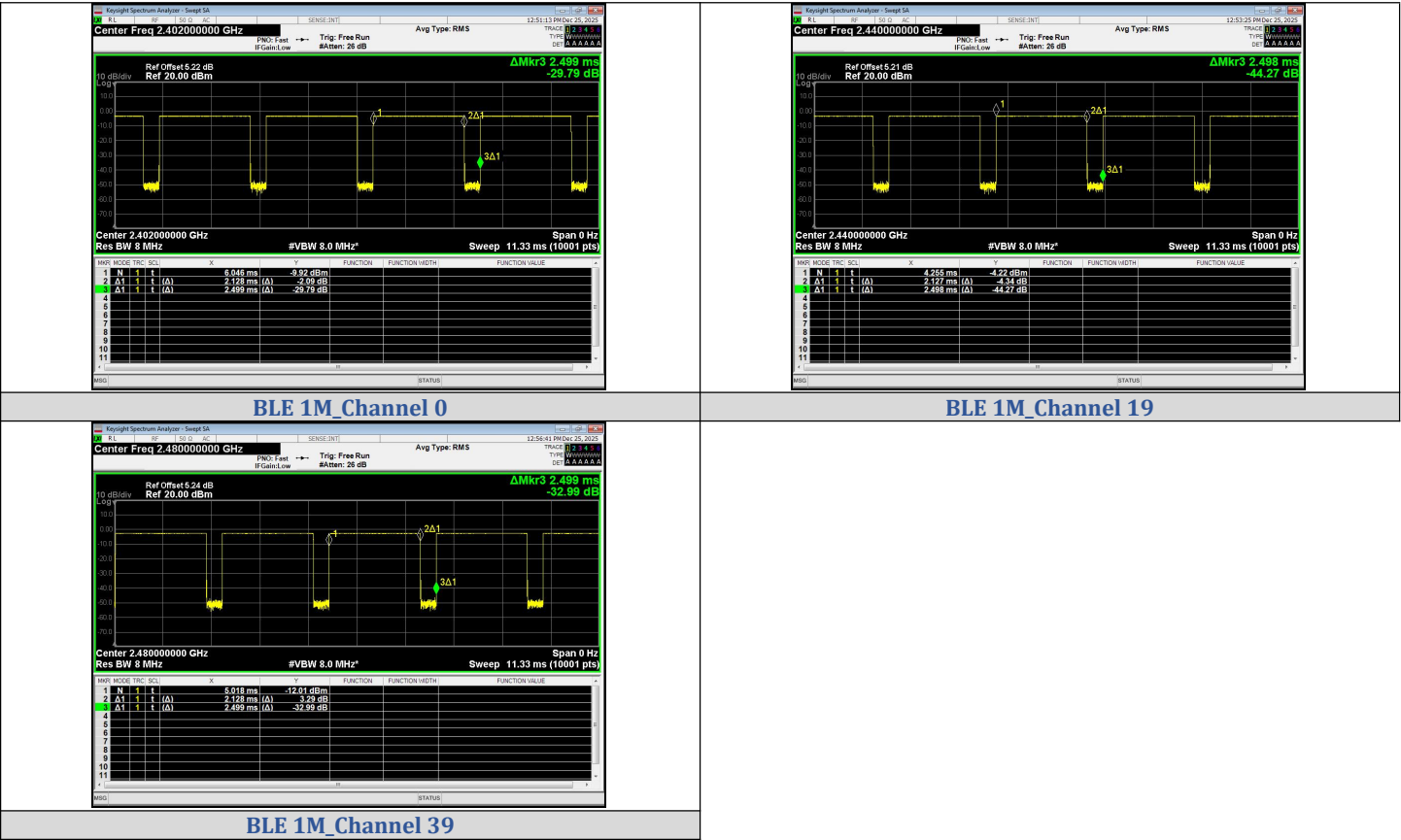


Duty Cycle

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.128	2.499	85.17	0.8517	0.6971	0.4699
	19	2.127	2.498	85.16	0.8516	0.6976	0.4701
	39	2.128	2.499	85.17	0.8517	0.6971	0.4699

Test Graphs



Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-19.550	≤8	PASS
BLE 1M	19	-19.520	≤8	PASS
BLE 1M	39	-18.870	≤8	PASS

Test Graphs

