

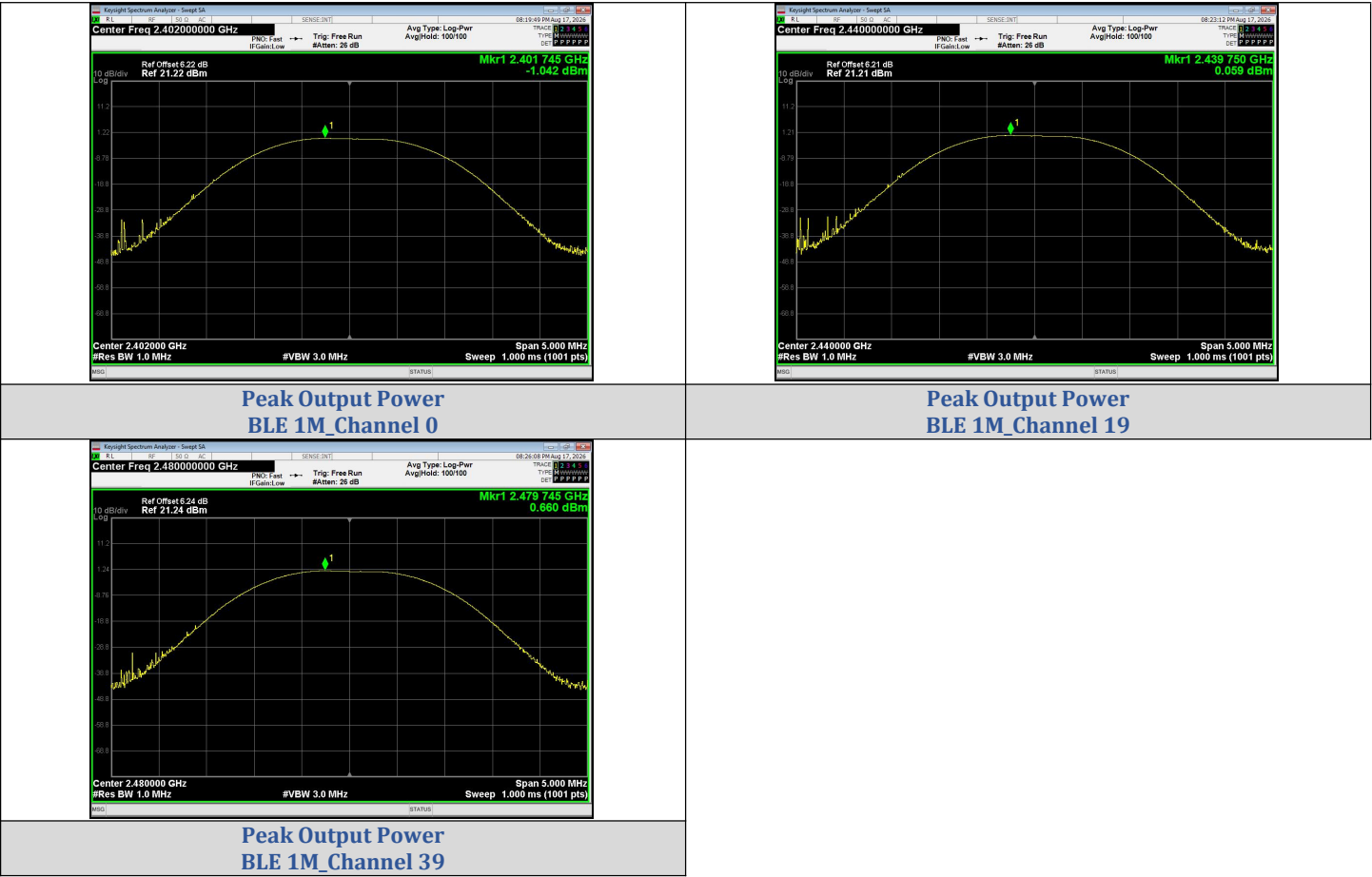
Appendix A:Test Results of Bluetooth BLE

Conducted Output Power

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Verdict
BLE 1M	0	-1.042	0.79	None	≤30	PASS
	19	0.059	1.01	None	≤30	PASS
	39	0.660	1.16	None	≤30	PASS

Test Graphs

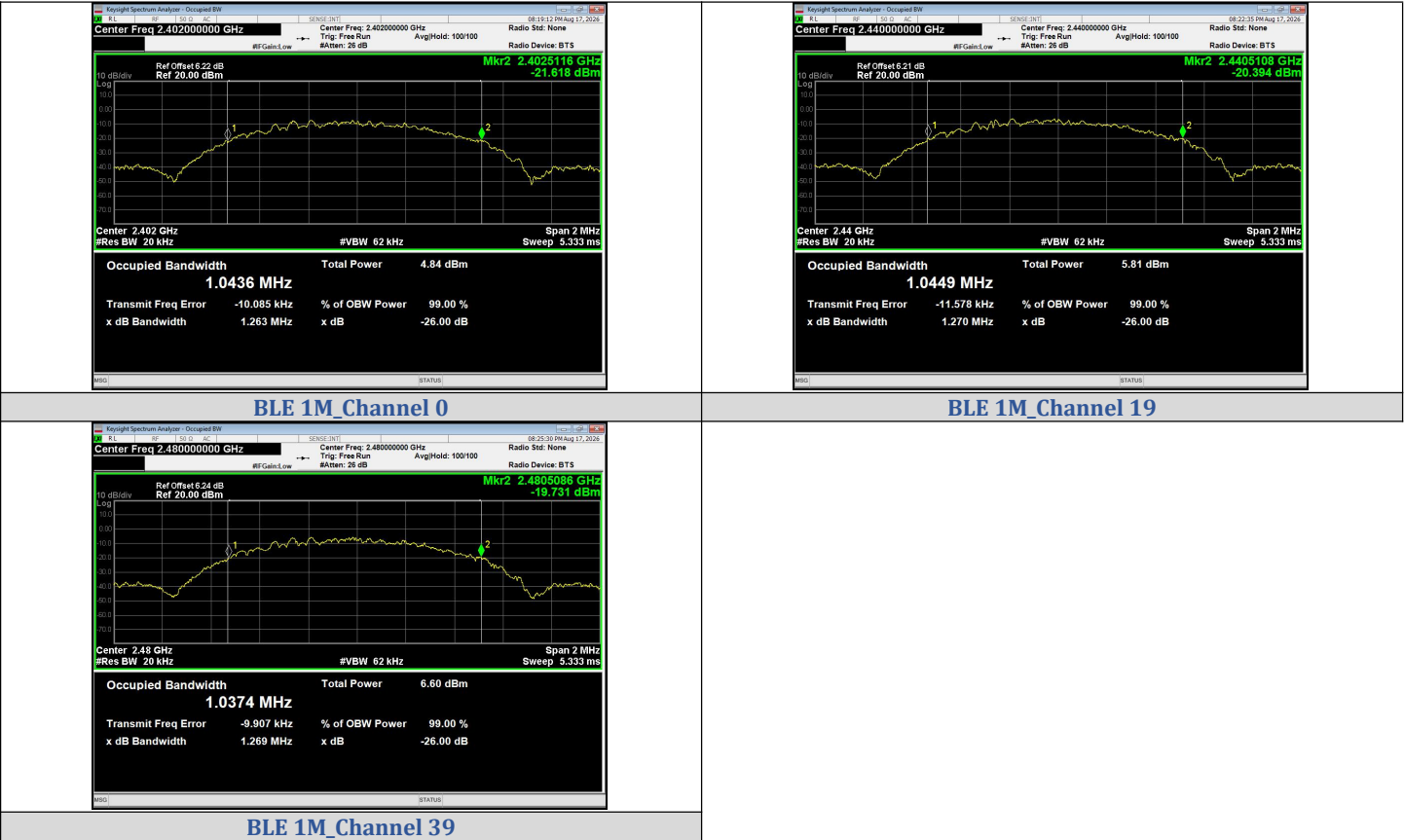


99% Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.04
BLE 1M	19	2440	1.04
BLE 1M	39	2480	1.04

Test Graphs

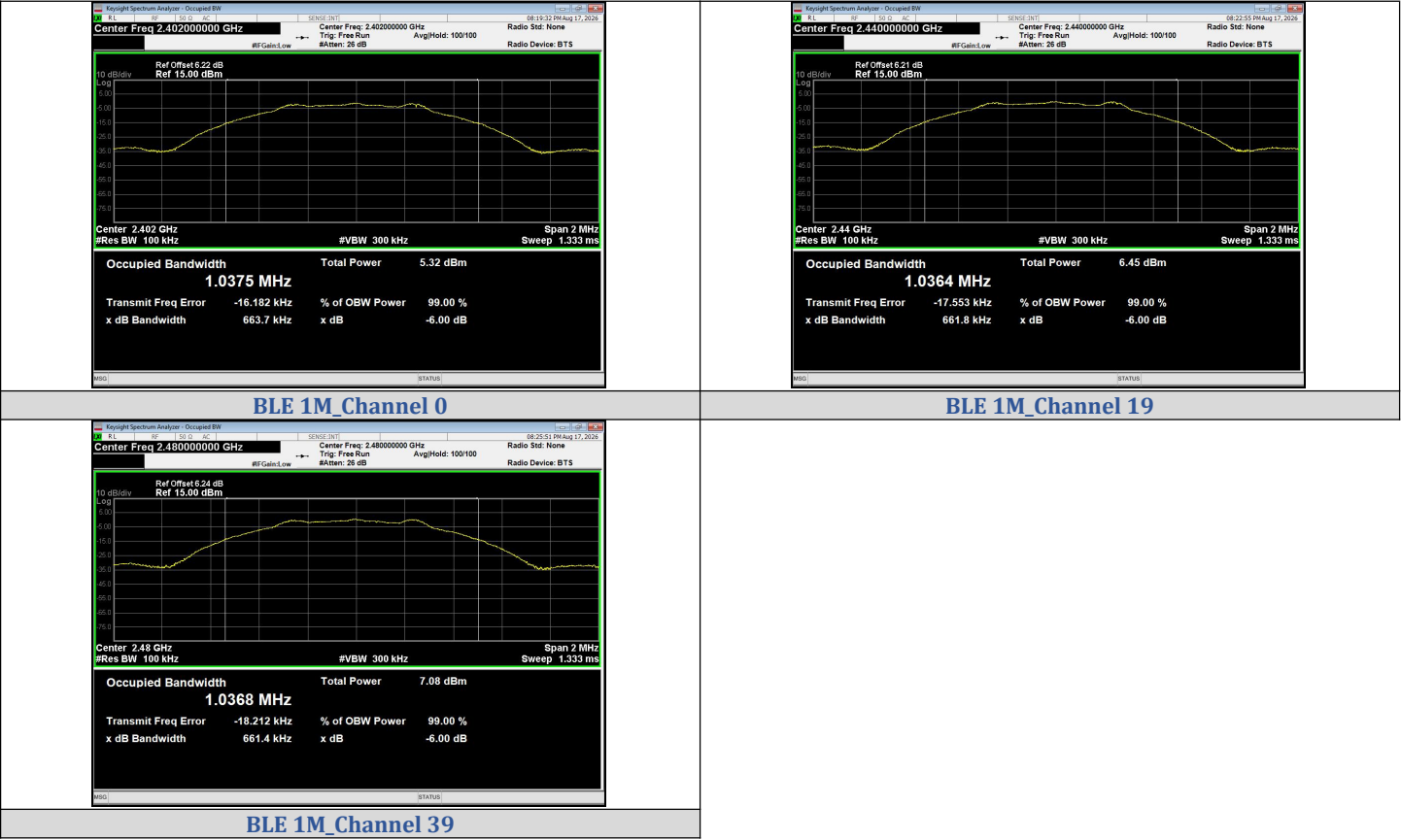


6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Verdict
BLE 1M	0	2402	0.6637	≥0.5	PASS
	19	2440	0.6618		PASS
	39	2480	0.6614		PASS

Test Graphs

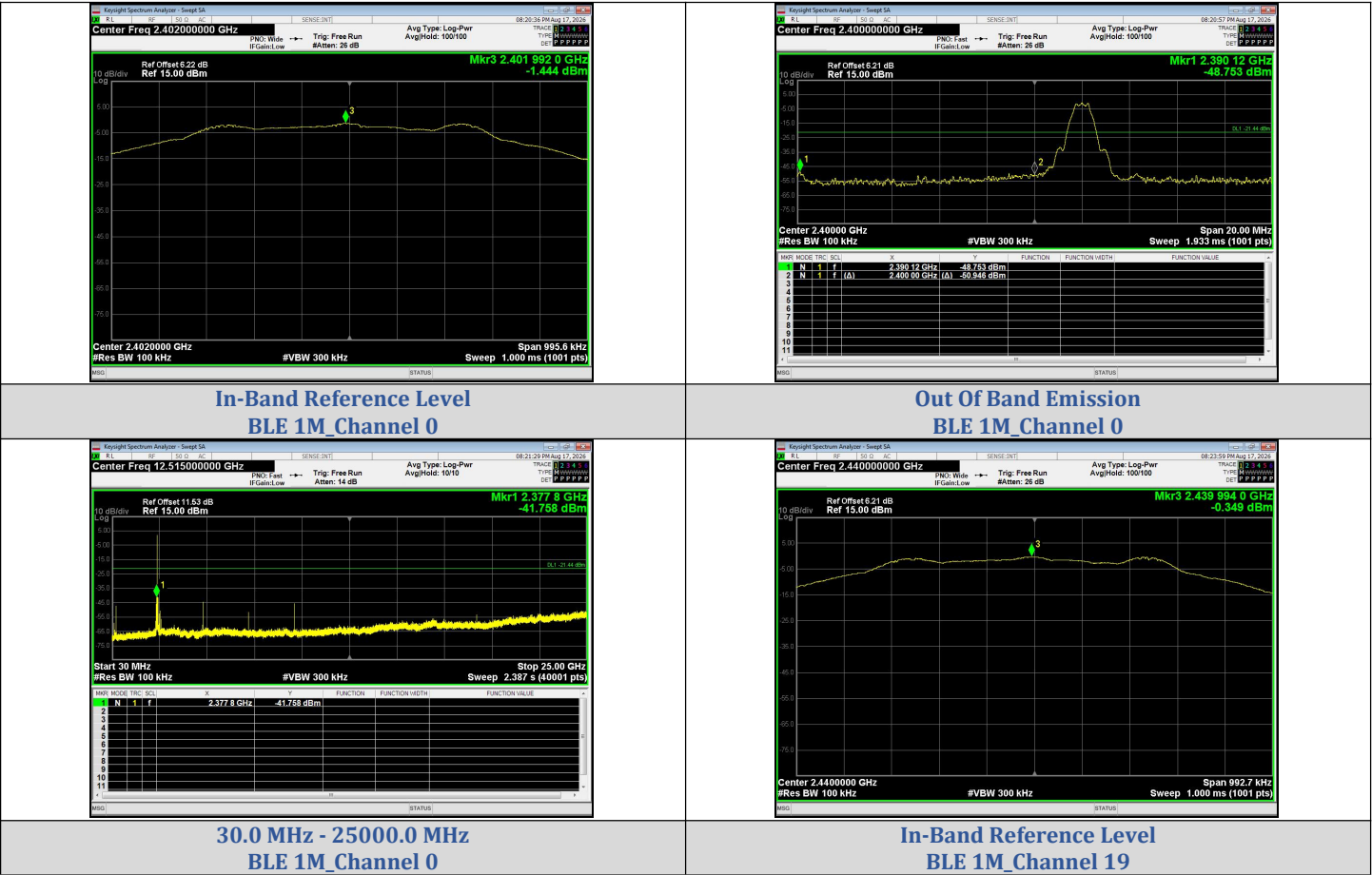


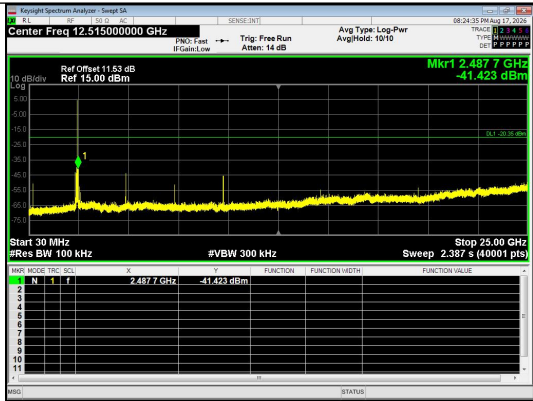
Conducted Spurious & Band Edge Emission
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Verdict
BLE 1M	0	2377.80	-41.758	-21.44	-20.318	PASS
		2390.12	-48.753	-21.44	-27.313	PASS
		2400.00	-50.946	-21.44	-29.506	PASS
	19	2487.67	-41.423	-20.35	-21.073	PASS
	39	2483.50	-51.903	-19.71	-32.193	PASS
		2503.90	-37.755	-19.71	-18.045	PASS

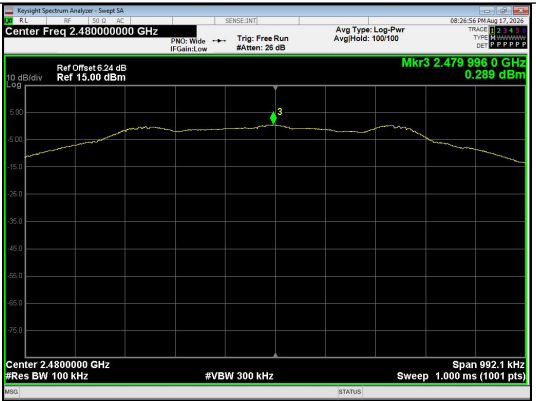
Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs

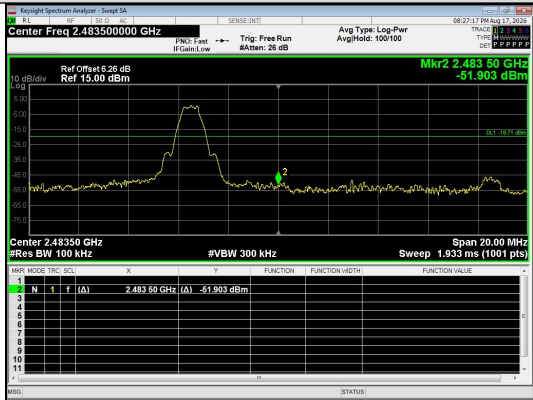




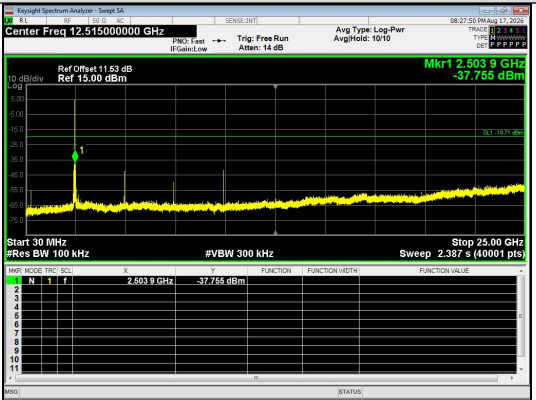
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



In-Band Reference Level
BLE 1M_Channel 39



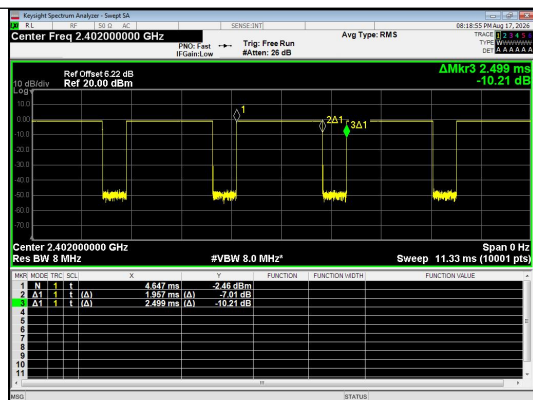
Out Of Band Emission
BLE 1M_Channel 39



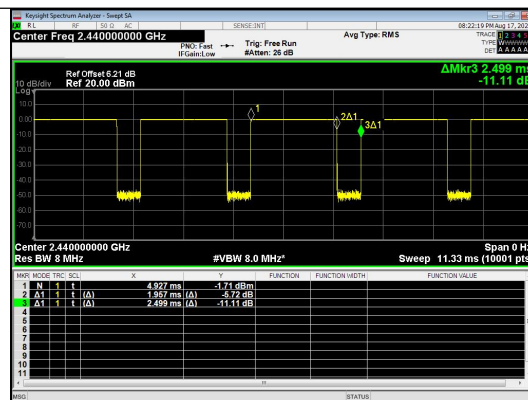
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	1.9573	2.499	78.32	0.7832	1.0613	0.5109
	19	1.9573	2.499	78.32	0.7832	1.0613	0.5109
	39	1.9573	2.499	78.32	0.7832	1.0613	0.5109

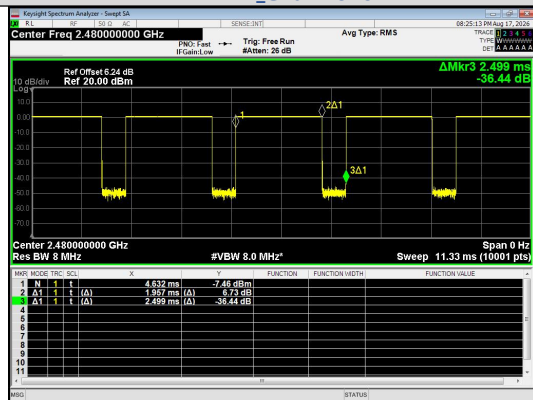
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



BLE 1M_Channel 39

Power Spectral Density
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	0	-16.280	≤8	PASS
BLE 1M	19	-15.090	≤8	PASS
BLE 1M	39	-14.650	≤8	PASS

Test Graphs

