

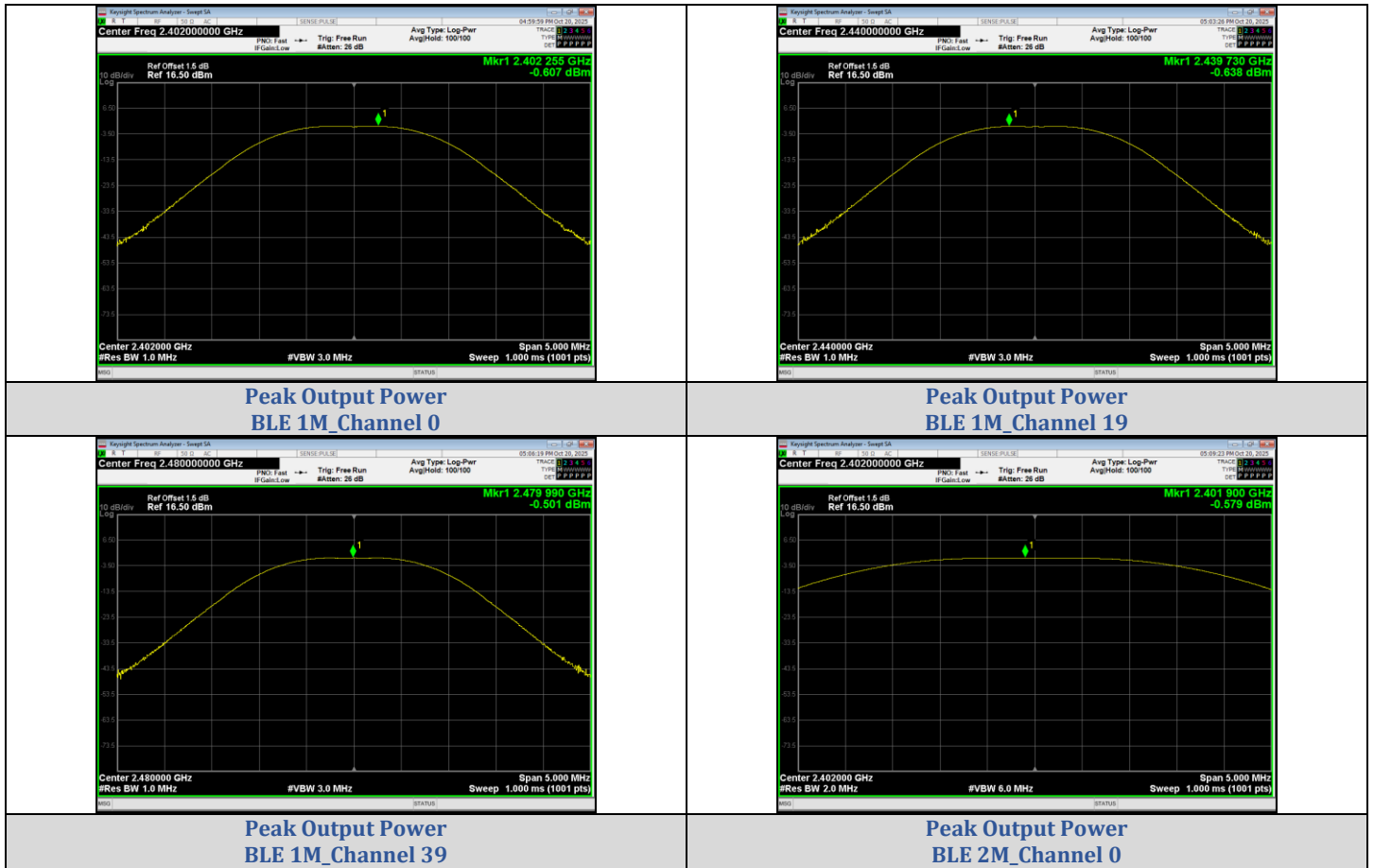
Appendix RF test data for BLE

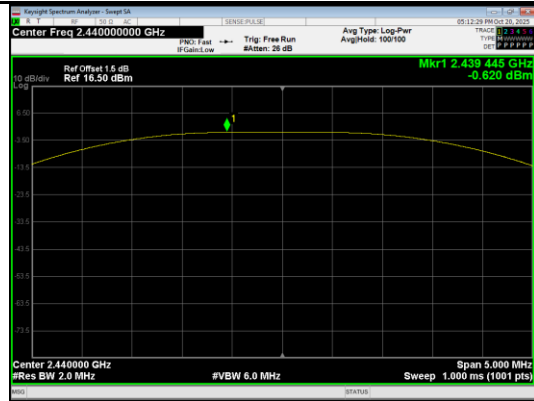
Conducted Output Power

Test Result

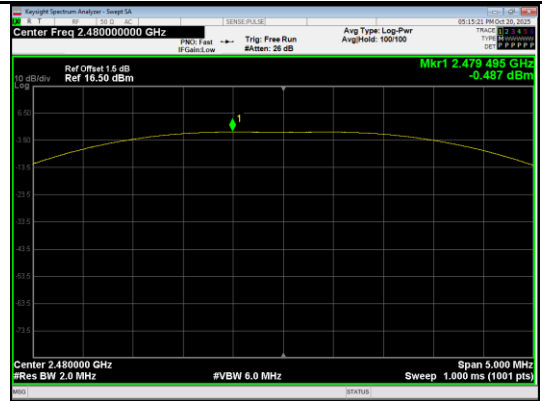
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
BLE 1M	0	-0.61	0.87	None	≤30	PASS
	19	-0.64	0.86	None	≤30	PASS
	39	-0.50	0.89	None	≤30	PASS
BLE 2M	0	-0.58	0.87	None	≤30	PASS
	19	-0.62	0.87	None	≤30	PASS
	39	-0.49	0.89	None	≤30	PASS

Test Graphs





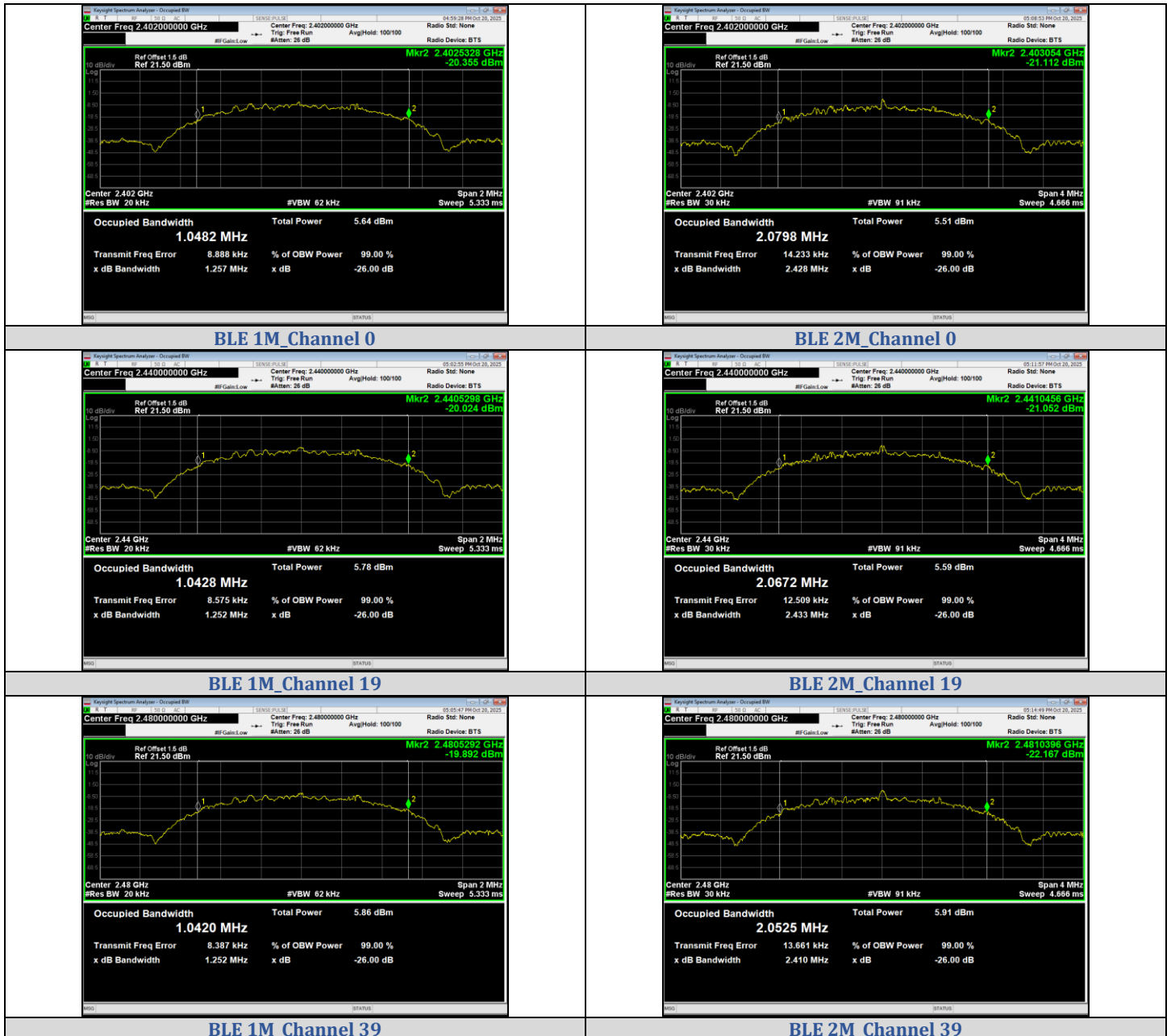
Peak Output Power
BLE 2M_Channel 19



Peak Output Power
BLE 2M_Channel 39

**99% Bandwidth****Test Result**

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0482
BLE 1M	19	2440	1.0428
BLE 1M	39	2480	1.0420
BLE 2M	0	2402	2.0798
BLE 2M	19	2440	2.0672
BLE 2M	39	2480	2.0525

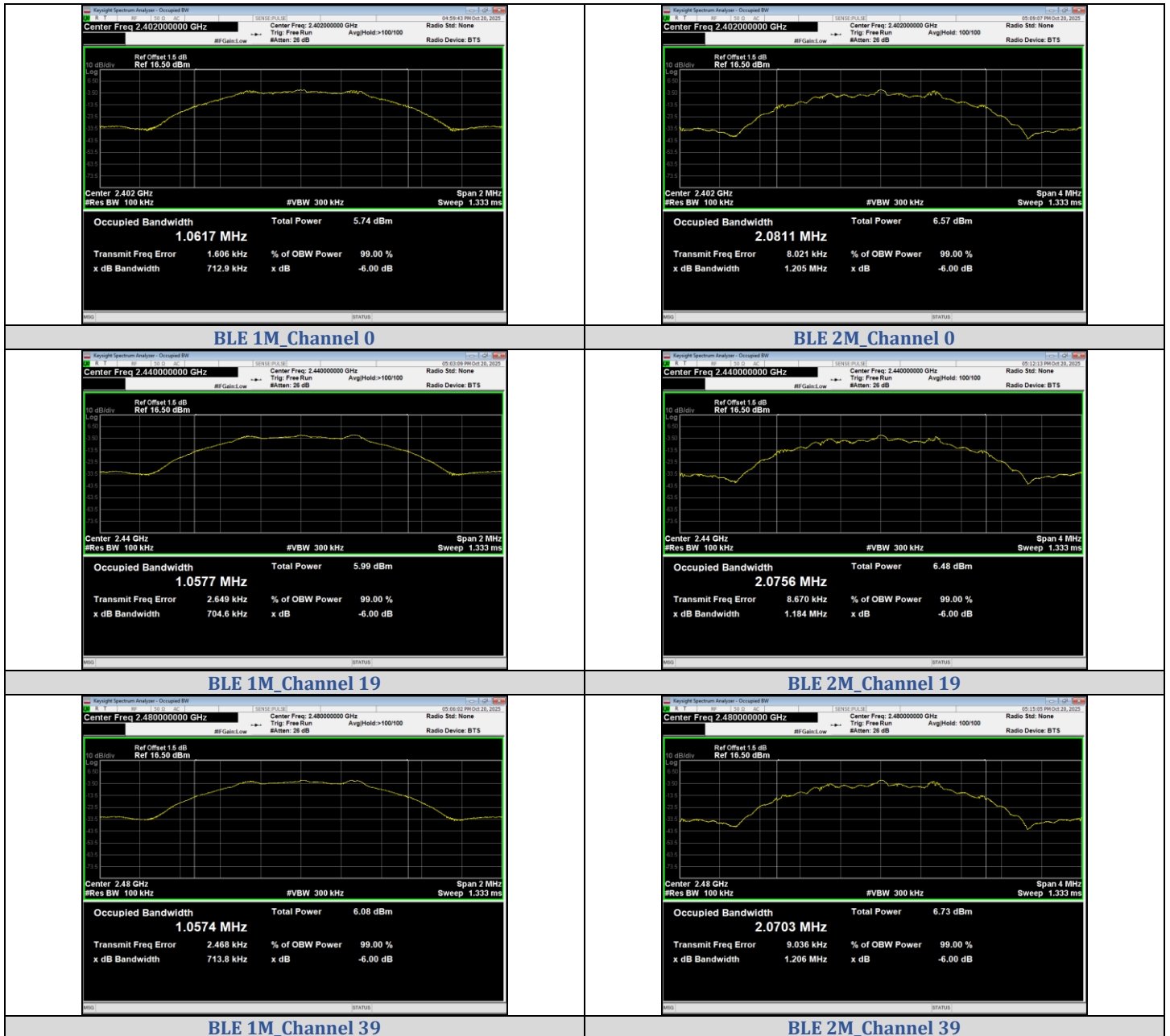
Test Graphs

6dB Bandwidth

Test Result

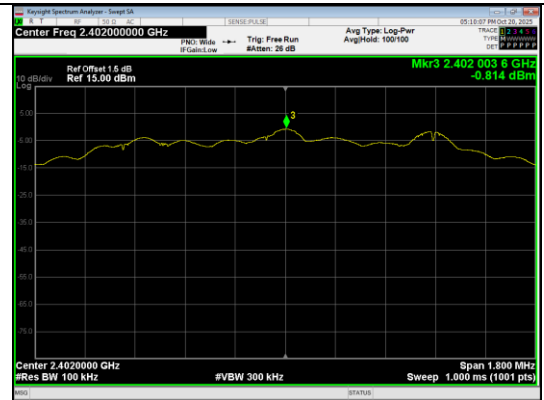
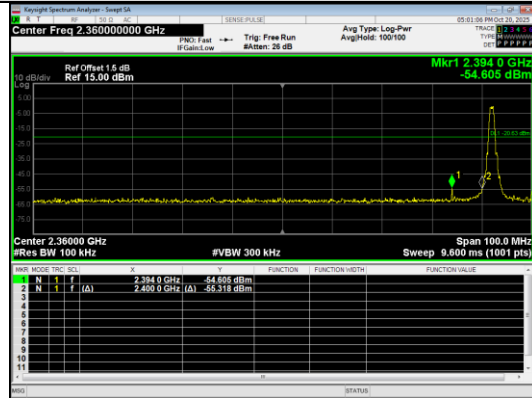
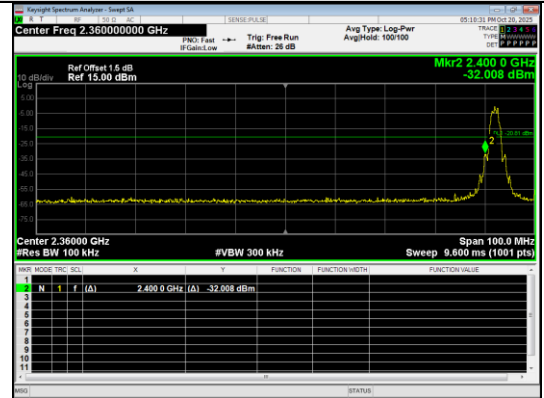
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.7100	≥0.5	PASS
	19	2440	0.7000		PASS
	39	2480	0.7100		PASS
BLE 2M	0	2402	1.200		PASS
	19	2440	1.180		PASS
	39	2480	1.210		PASS

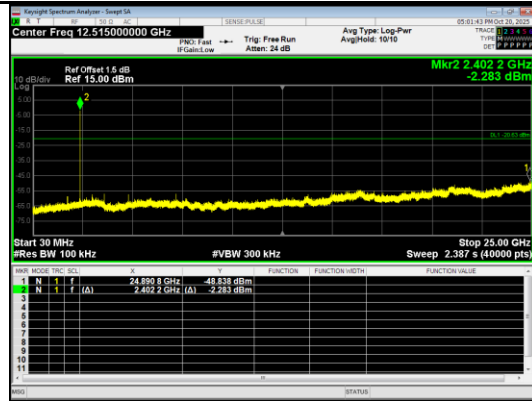
Test Graphs



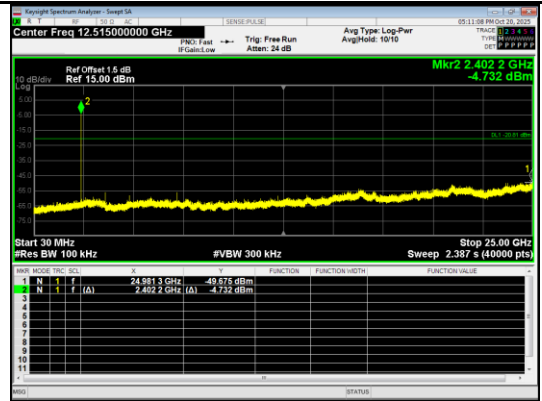
**Conducted Out Of Band Emission****Test Result**

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2394.00	-54.605	-20.63	-33.975	PASS
		2400.00	-55.320	-20.63	-34.690	PASS
		24890.8	-48.837	-20.63	-28.207	PASS
	19	24339.5	-49.184	-20.66	-28.524	PASS
		2483.50	-59.900	-20.54	-39.360	PASS
		24976.3	-49.025	-20.54	-28.485	PASS
BLE 2M	0	2400.00	-32.010	-20.81	-11.200	PASS
		24981.3	-49.675	-20.81	-28.865	PASS
	19	24910.7	-49.940	-20.83	-29.110	PASS
		2483.50	-57.210	-20.71	-36.500	PASS
	39	24935.7	-49.144	-20.71	-28.434	PASS

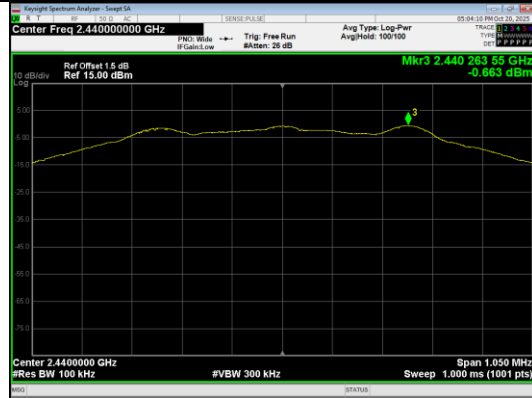
Test Graphs**In-Band Reference Level
BLE 1M_Channel 0****In-Band Reference Level
BLE 2M_Channel 0****Out Of Band Emission
BLE 1M_Channel 0****Out Of Band Emission
BLE 2M_Channel 0**



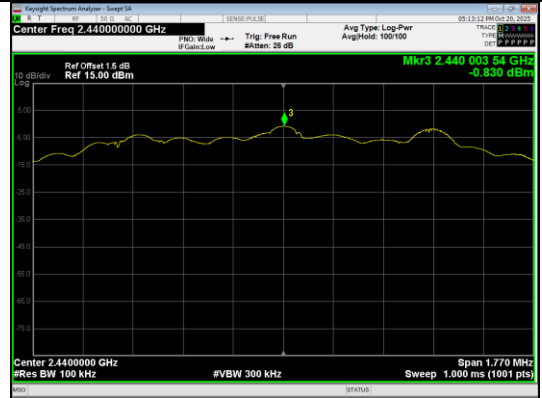
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



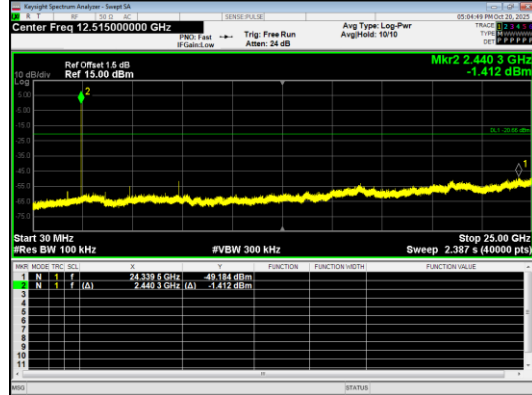
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



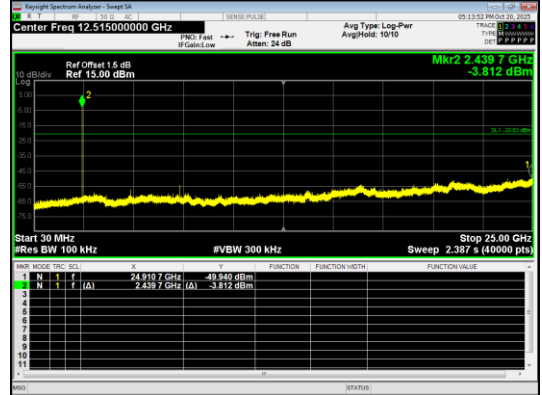
In-Band Reference Level
BLE 1M_Channel 19



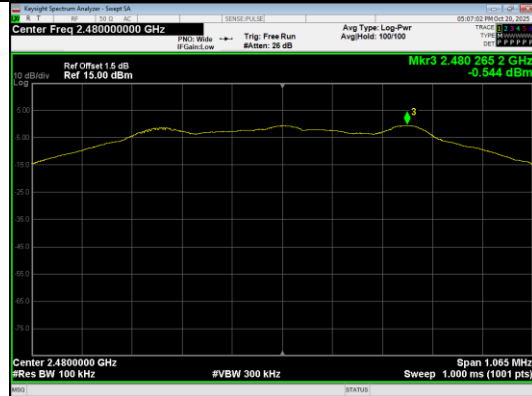
In-Band Reference Level
BLE 2M_Channel 19



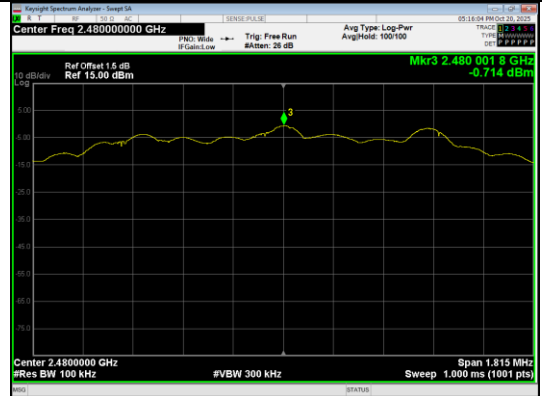
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



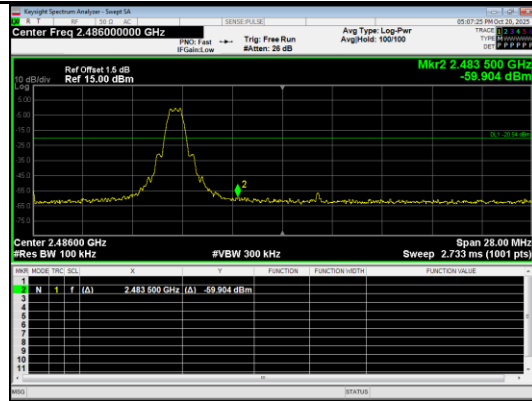
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



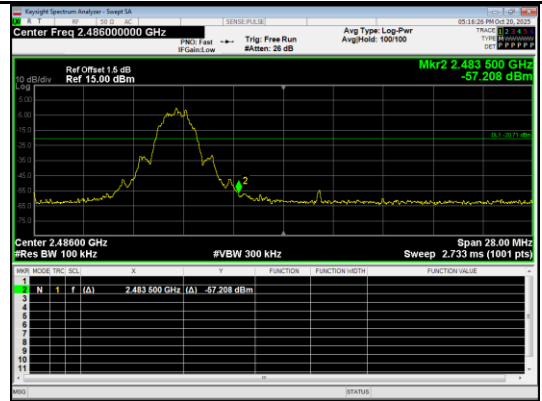
In-Band Reference Level
BLE 1M_Channel 39



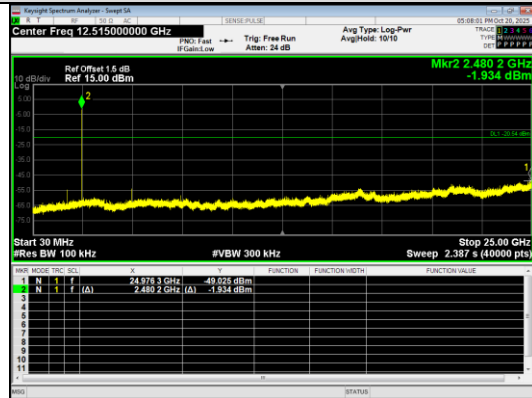
In-Band Reference Level
BLE 2M_Channel 39



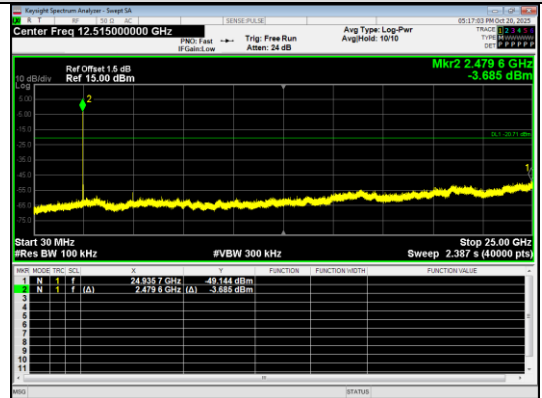
Out Of Band Emission
BLE 1M_Channel 39



Out Of Band Emission
BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39



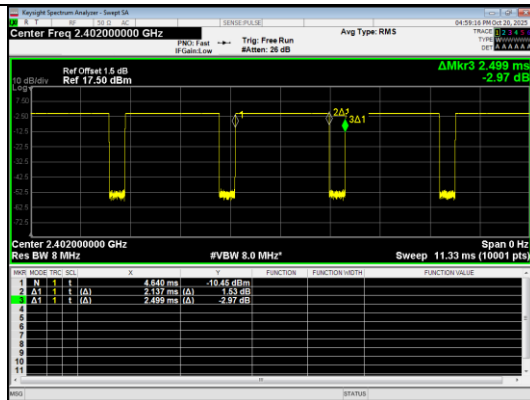
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39

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	2.137	2.499	85.53	0.8553	0.6788	0.4679
	19	2.136	2.499	85.49	0.8549	0.6808	0.4682
	39	2.136	2.499	85.49	0.8549	0.6808	0.4682
BLE 2M	0	1.080	1.874	57.62	0.5762	2.3943	0.9259
	19	1.080	1.875	57.62	0.5762	2.3943	0.9259
	39	1.080	1.874	57.62	0.5762	2.3943	0.9259

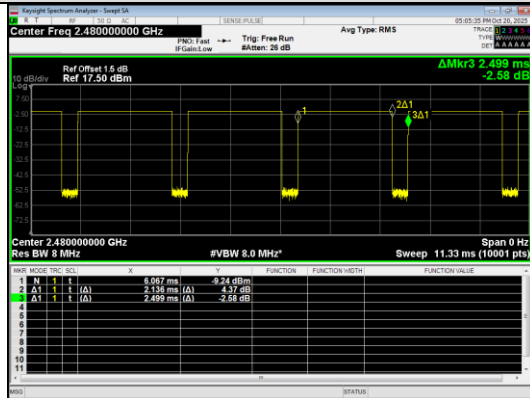
Test Graphs



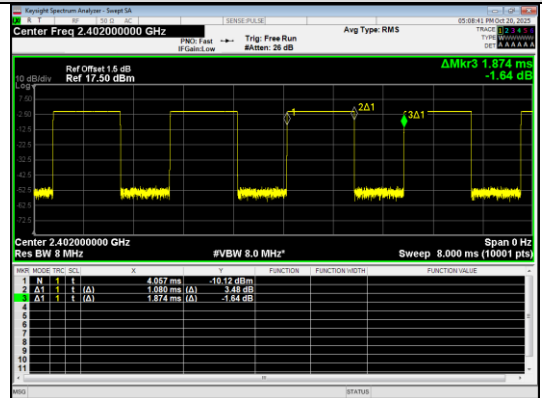
BLE 1M_Channel 0



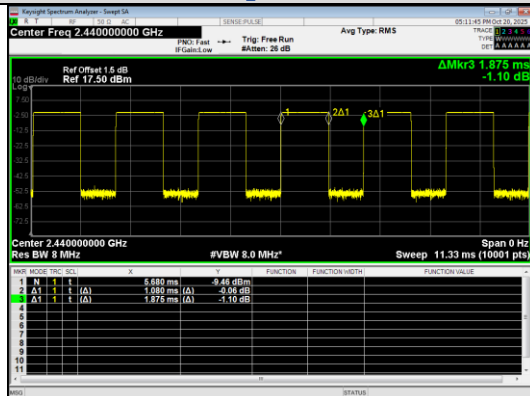
BLE 1M_Channel 19



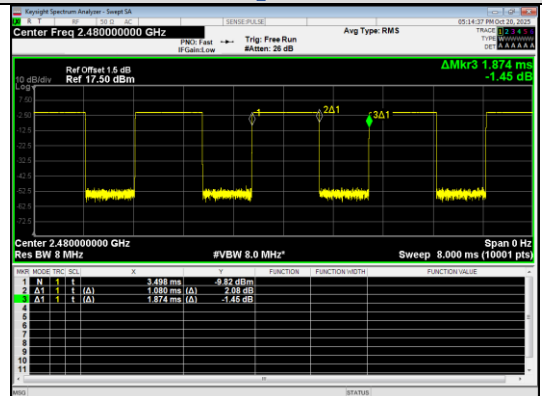
BLE 1M_Channel 39



BLE 2M_Channel 0



BLE 2M_Channel 19



BLE 2M_Channel 39

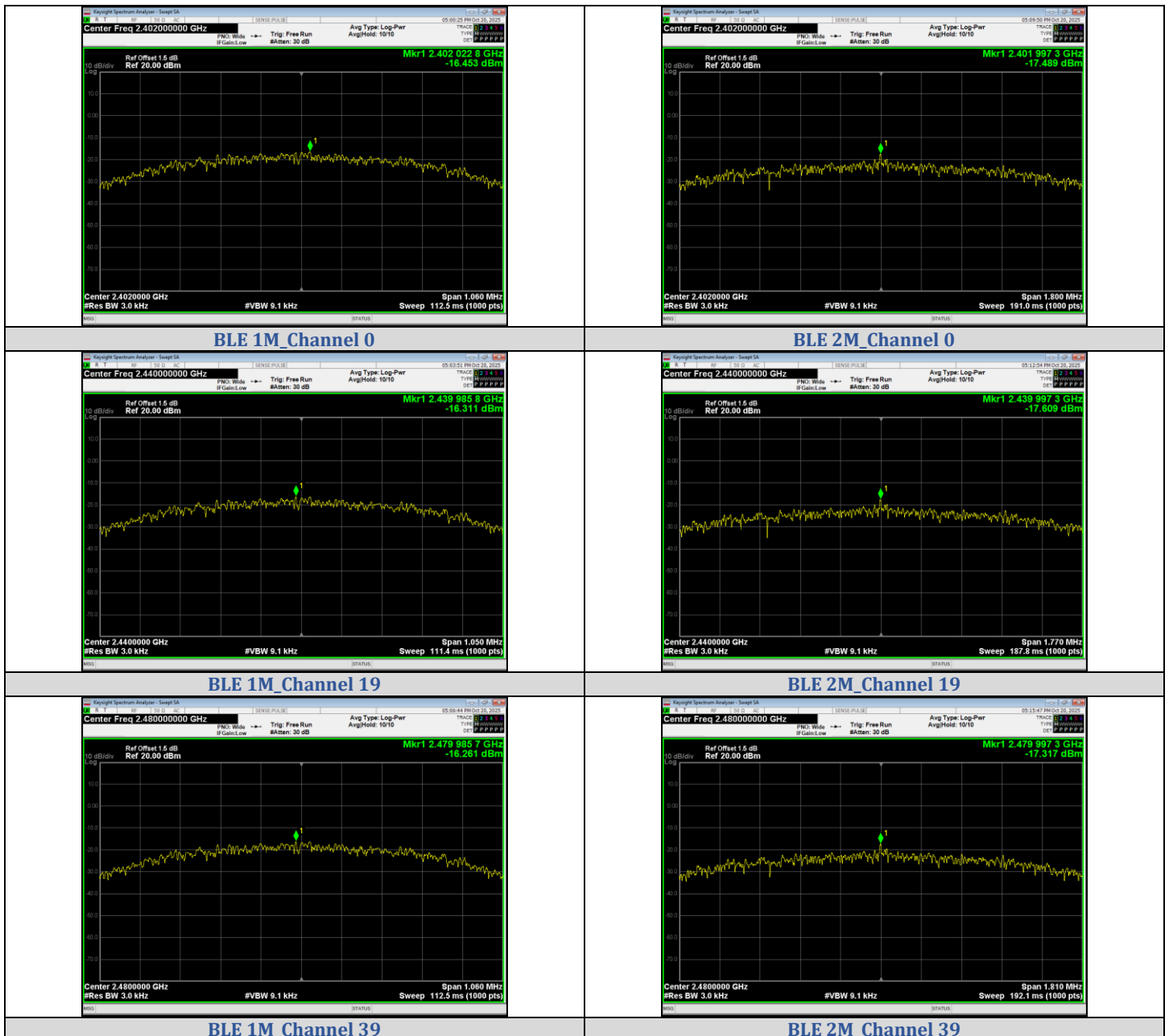


Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-16.450	≤ 8	PASS
BLE 1M	19	-16.310	≤ 8	PASS
BLE 1M	39	-16.260	≤ 8	PASS
BLE 2M	0	-17.490	≤ 8	PASS
BLE 2M	19	-17.610	≤ 8	PASS
BLE 2M	39	-17.320	≤ 8	PASS

Test Graphs



***** End of Report *****