

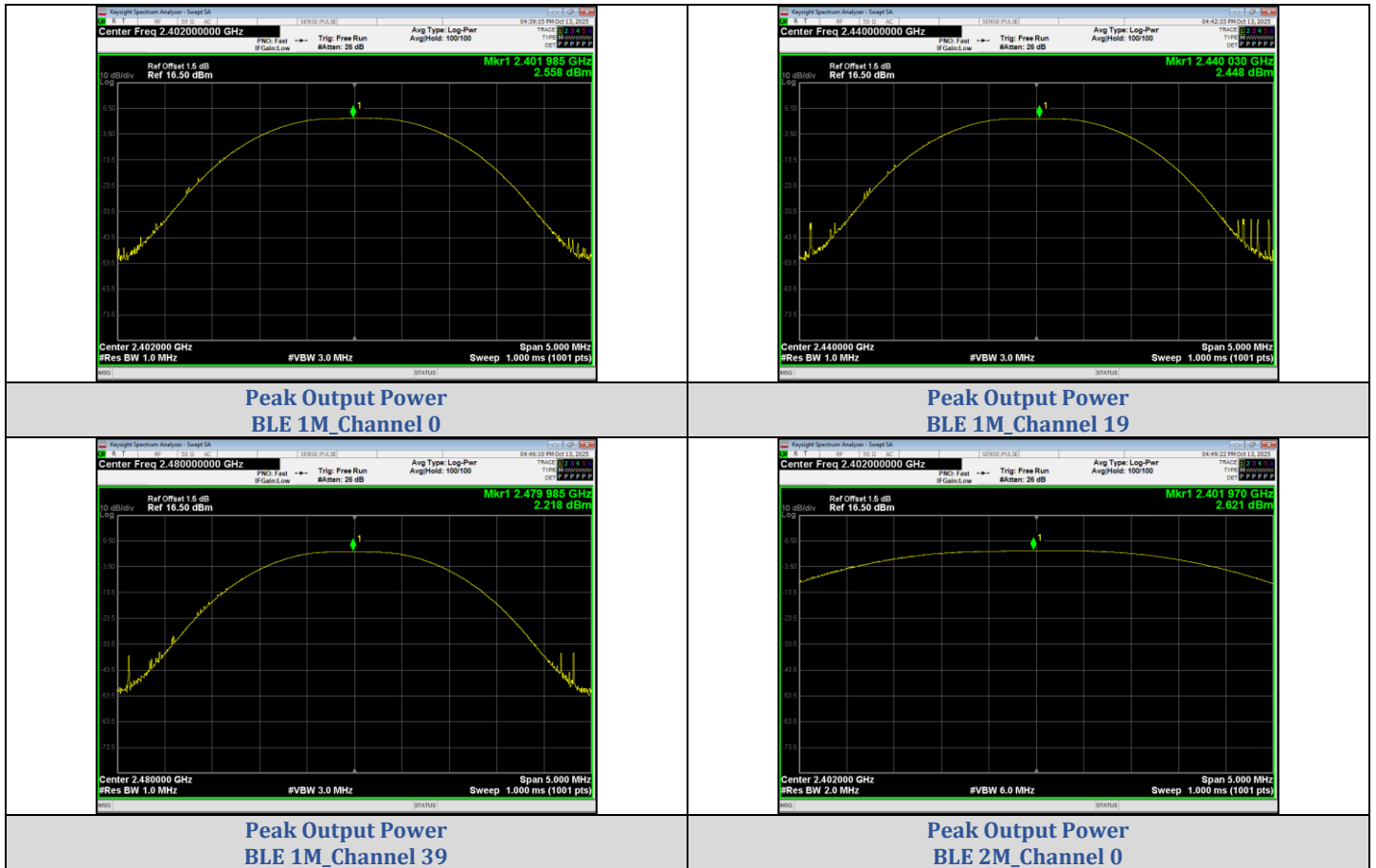
Appendix RF test data for BLE

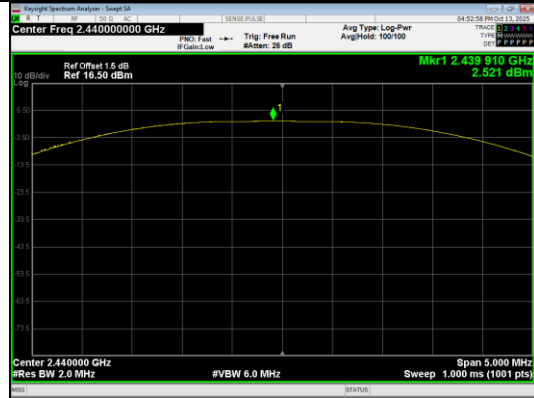
Conducted Output Power

Test Result

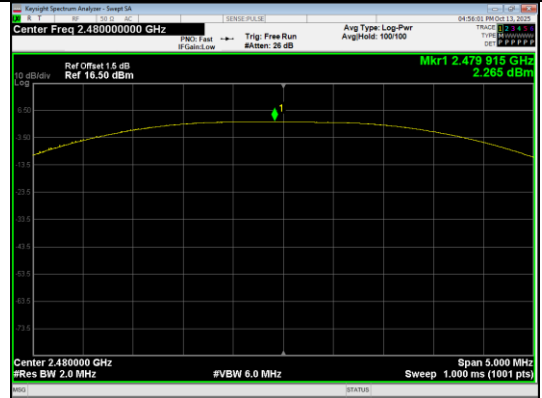
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	2.56	1.8	≤30	PASS
	19	2.45	1.76	≤30	PASS
	39	2.22	1.67	≤30	PASS
BLE 2M	0	2.62	1.83	≤30	PASS
	19	2.52	1.79	≤30	PASS
	39	2.27	1.69	≤30	PASS

Test Graphs





Peak Output Power
BLE 2M_Channel 19



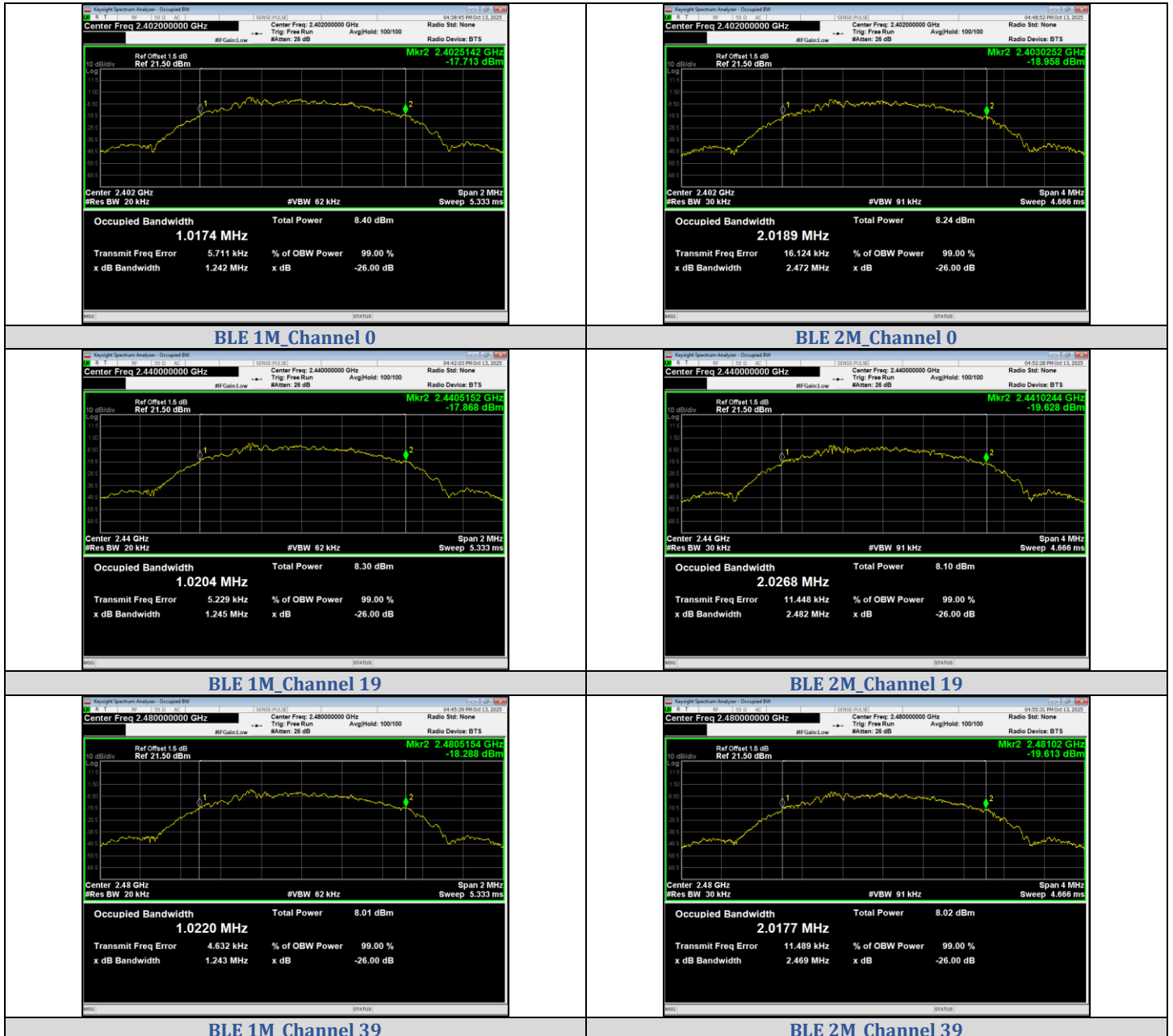
Peak Output Power
BLE 2M_Channel 39

99% Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0174
BLE 1M	19	2440	1.0204
BLE 1M	39	2480	1.0220
BLE 2M	0	2402	2.0189
BLE 2M	19	2440	2.0268
BLE 2M	39	2480	2.0177

Test Graphs

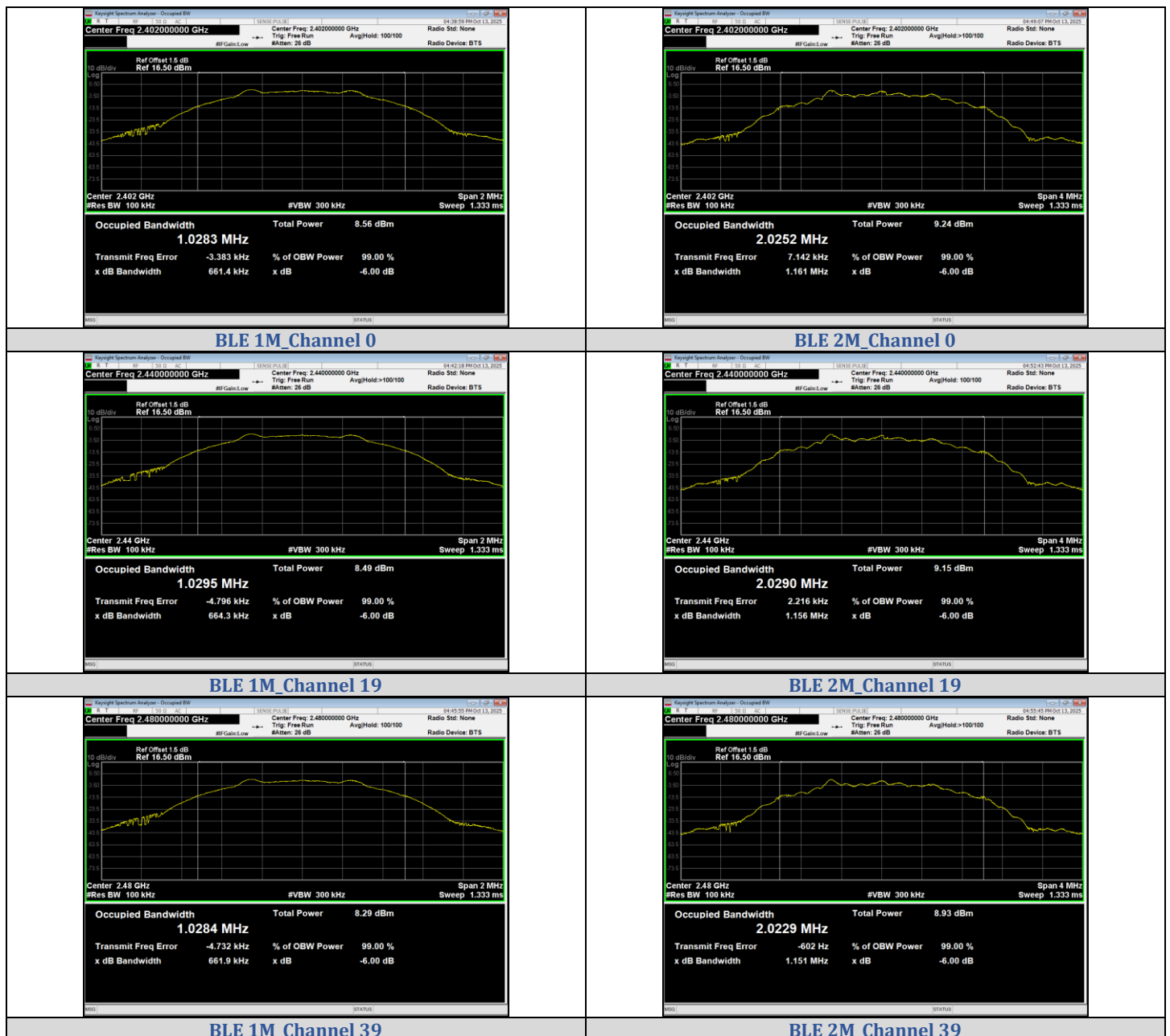


6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.160		PASS
	19	2440	1.160		PASS
	39	2480	1.150		PASS

Test Graphs

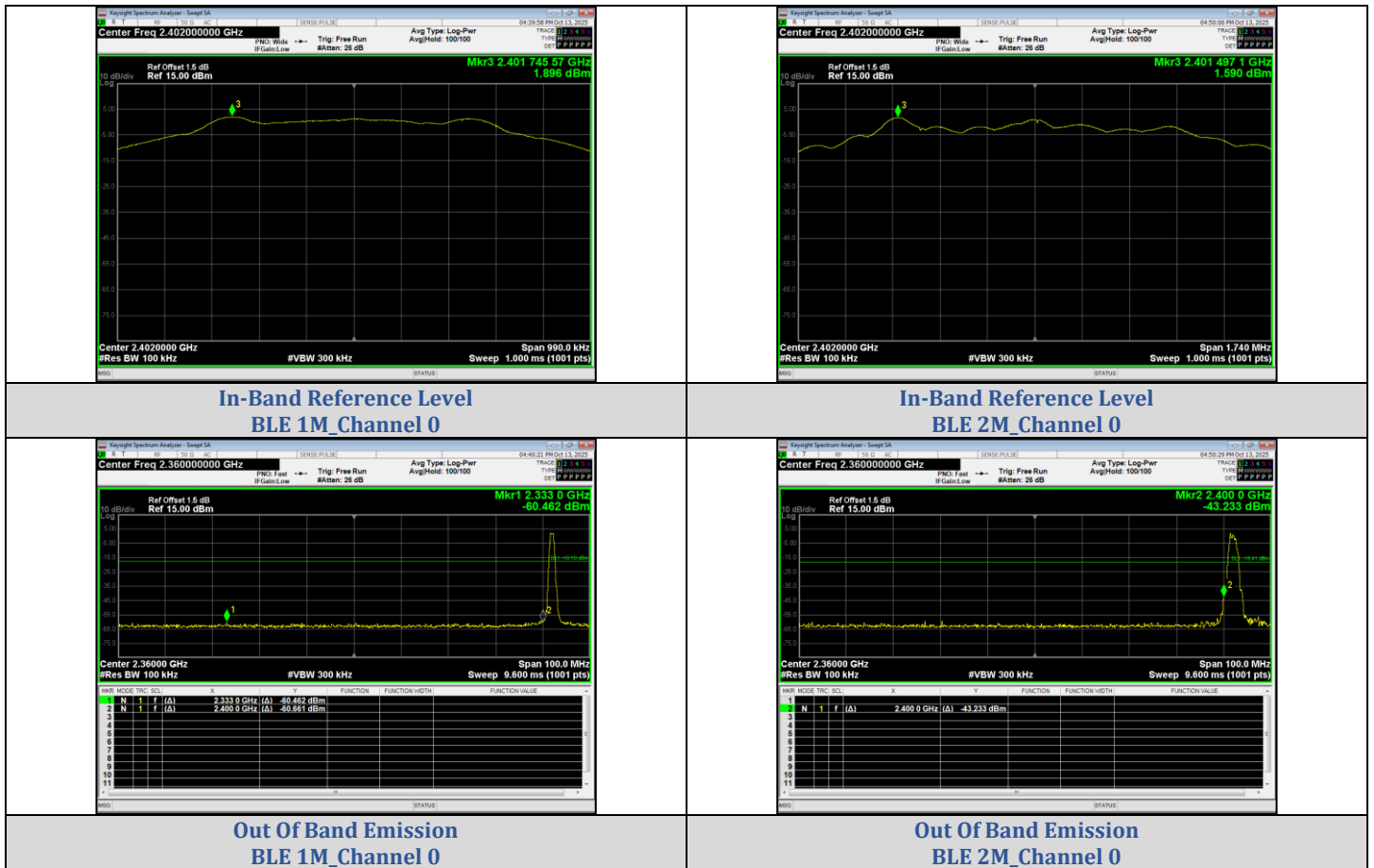


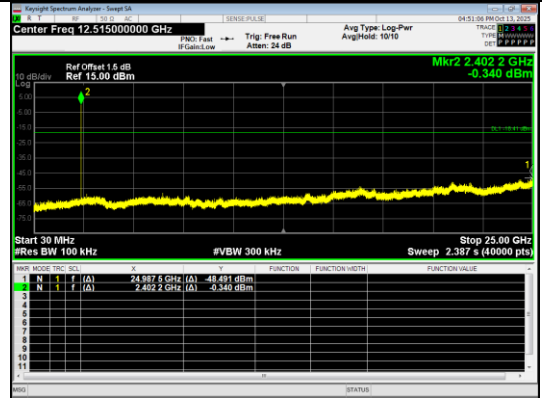
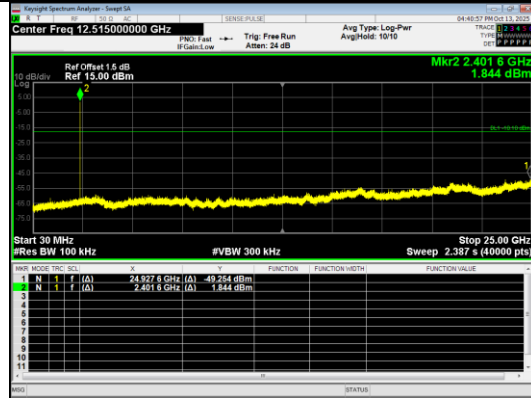
Conducted Out Of Band Emission

Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2333.00	-60.462	-18.1	-42.361	PASS
		2400.00	-60.660	-18.1	-42.560	PASS
		24927.6	-49.255	-18.1	-31.154	PASS
	19	24947.6	-48.383	-18.14	-30.242	PASS
		2483.50	-57.410	-18.39	-39.020	PASS
		24993.1	-49.029	-18.39	-30.639	PASS
BLE 2M	0	2400.00	-43.230	-18.41	-24.820	PASS
		24987.5	-48.491	-18.41	-30.081	PASS
	19	24940.7	-48.823	-18.36	-30.463	PASS
		2483.50	-57.990	-18.58	-39.410	PASS
	39	24838.3	-49.314	-18.58	-30.734	PASS

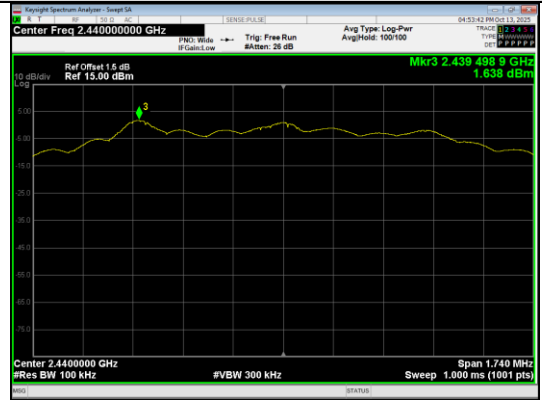
Test Graphs





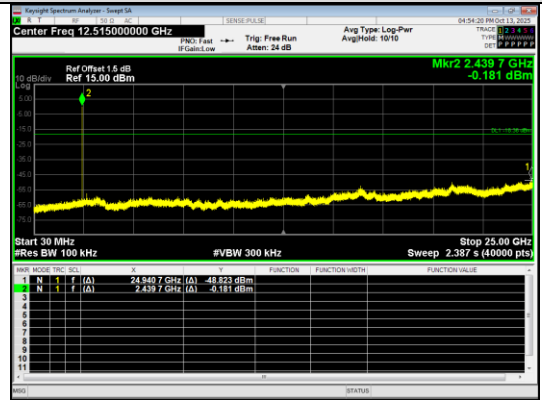
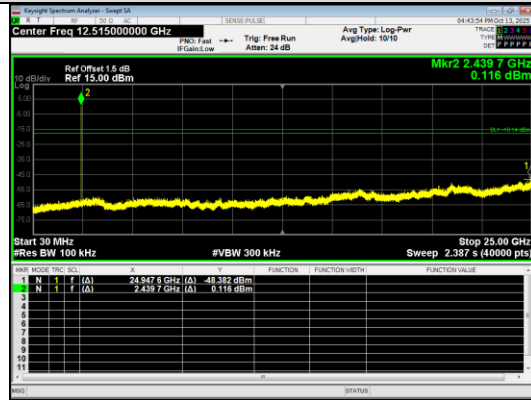
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0

30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



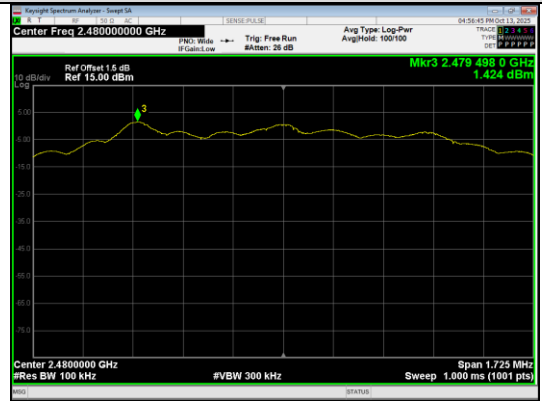
In-Band Reference Level
BLE 1M_Channel 19

In-Band Reference Level
BLE 2M_Channel 19



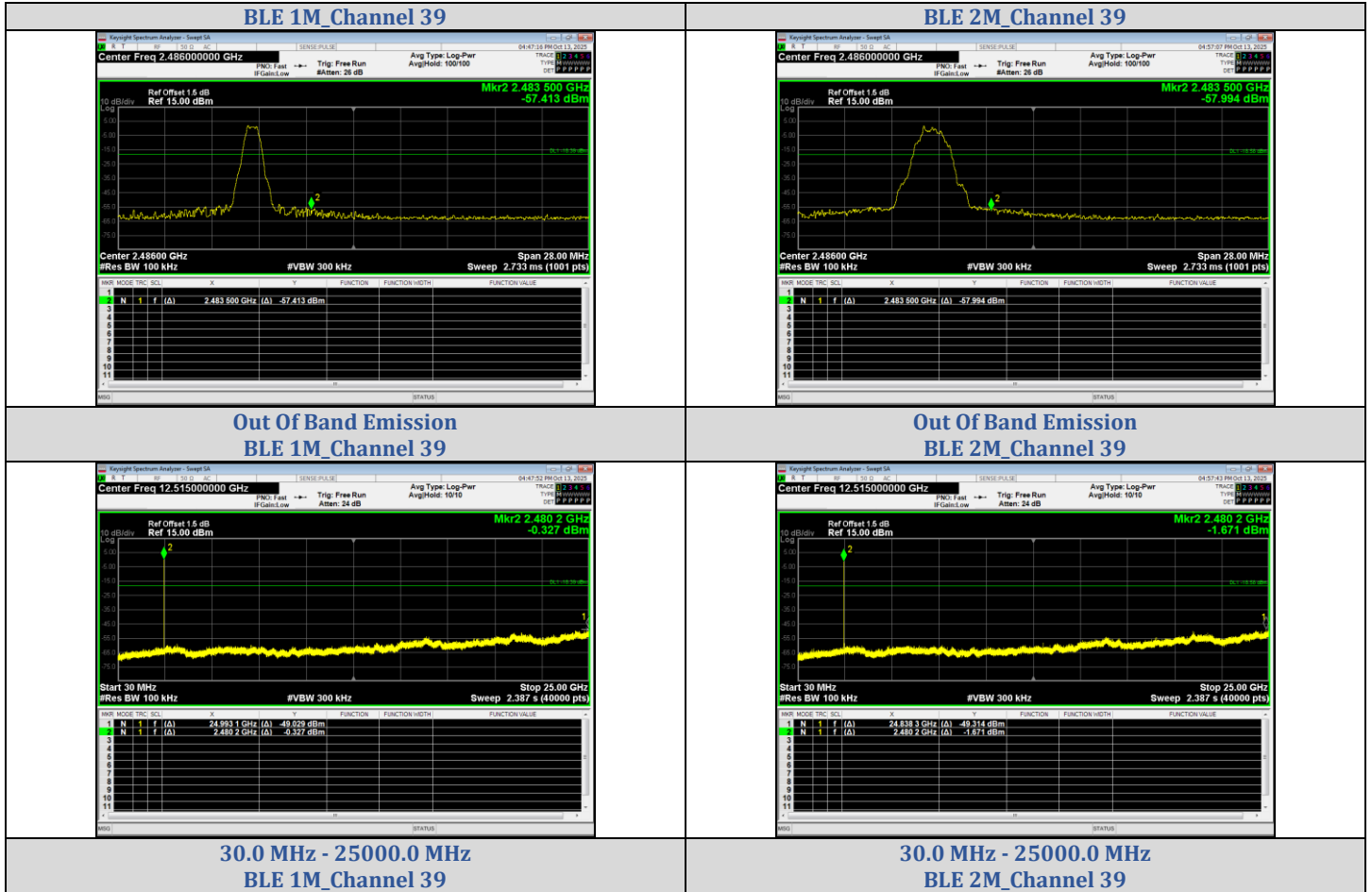
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19

30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



In-Band Reference Level

In-Band Reference Level



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	1.637	1.874	87.32	0.8732	0.5889	0.6109
	19	1.637	1.874	87.32	0.8732	0.5889	0.6109
	39	1.638	1.874	87.37	0.8737	0.5864	0.6105
BLE 2M	0	0.823	1.249	65.91	0.6591	1.8105	1.2151
	19	0.823	1.250	65.88	0.6588	1.8125	1.2151
	39	0.823	1.249	65.91	0.6591	1.8105	1.2151

Test Graphs

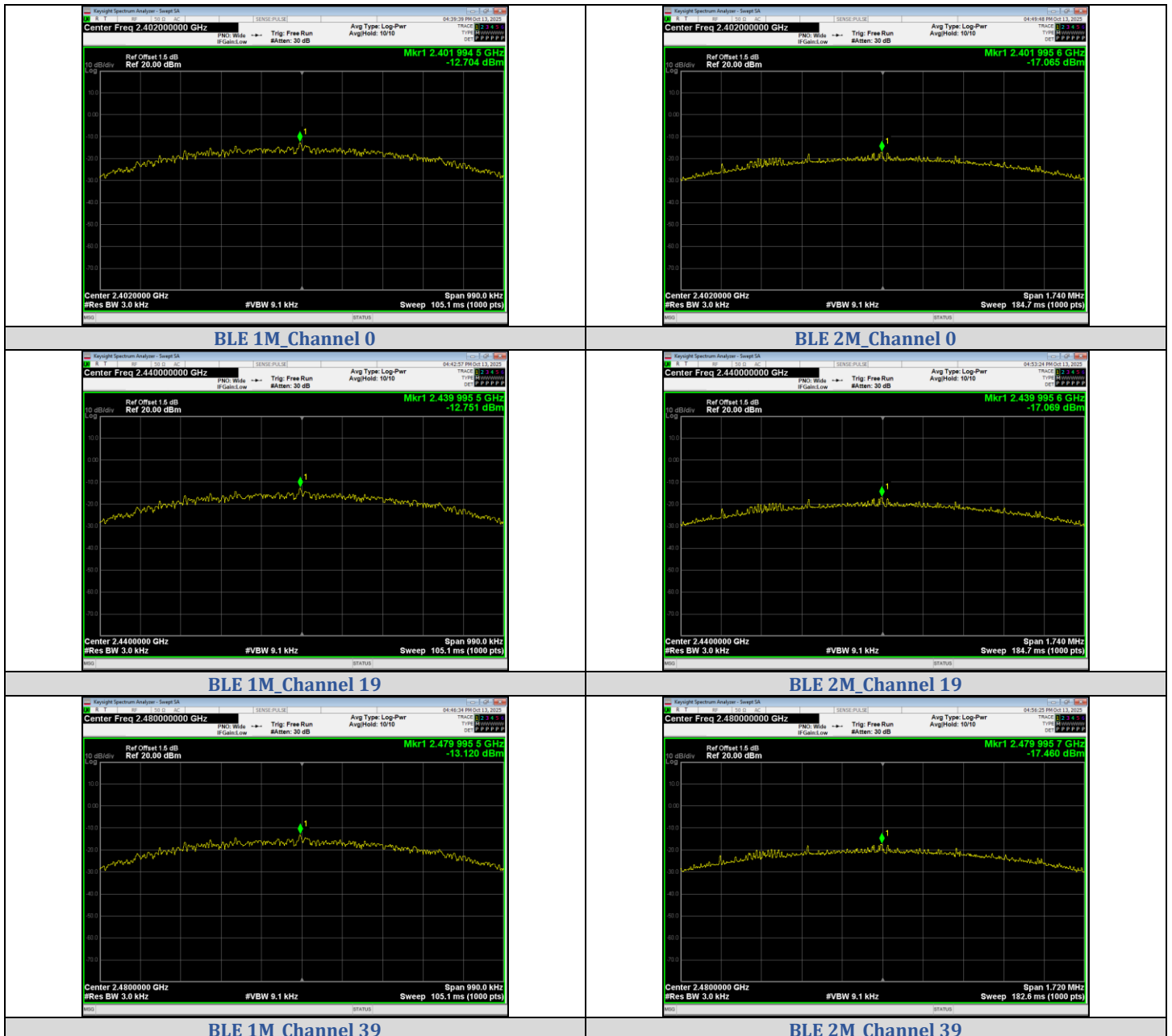


Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-12.700	≤8	PASS
BLE 1M	19	-12.750	≤8	PASS
BLE 1M	39	-13.120	≤8	PASS
BLE 2M	0	-17.070	≤8	PASS
BLE 2M	19	-17.070	≤8	PASS
BLE 2M	39	-17.460	≤8	PASS

Test Graphs



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