

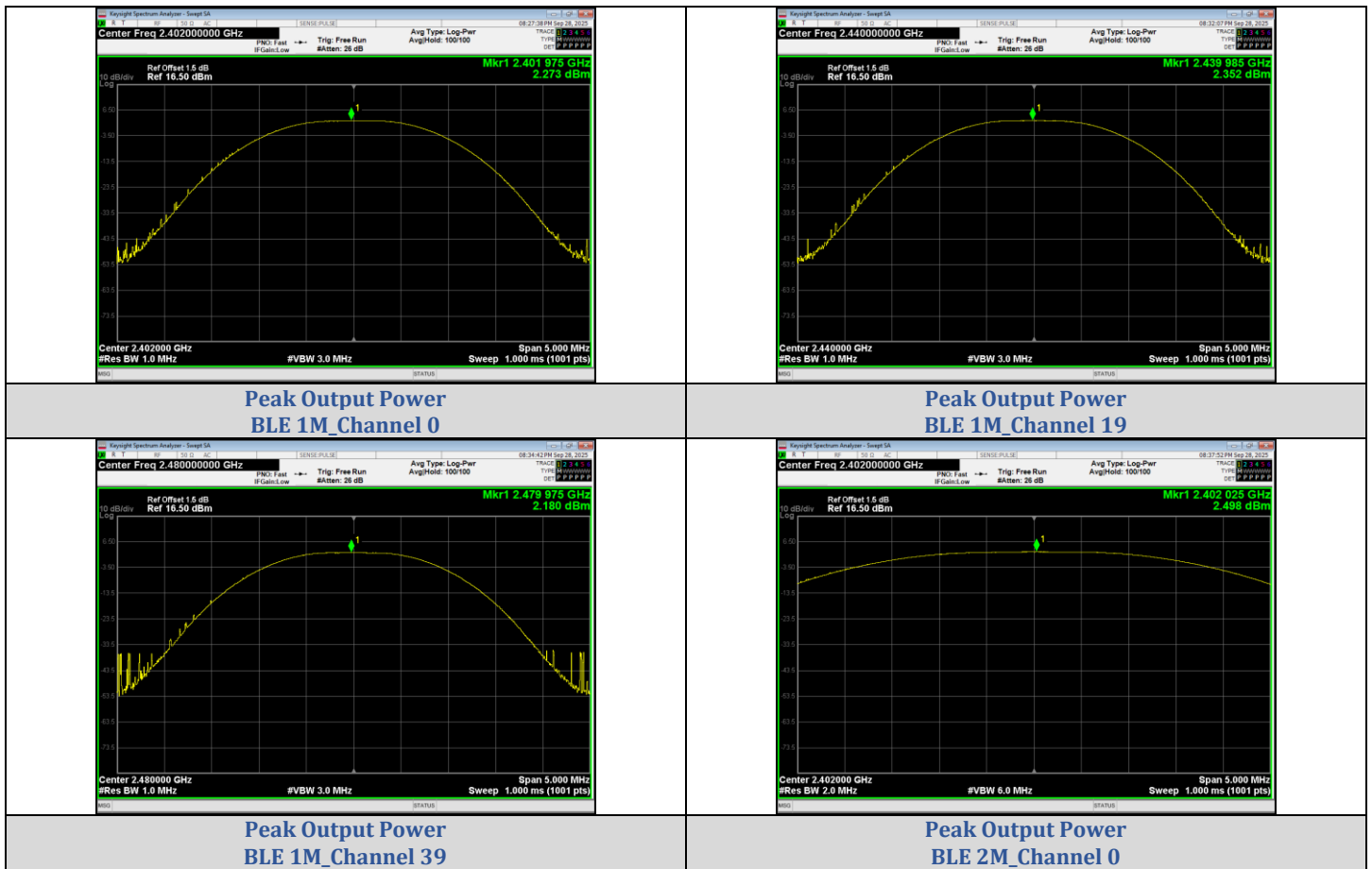
Appendix RF test data for BLE

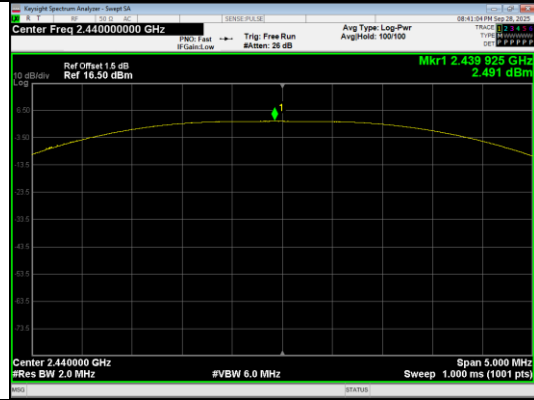
Conducted Output Power

Test Result

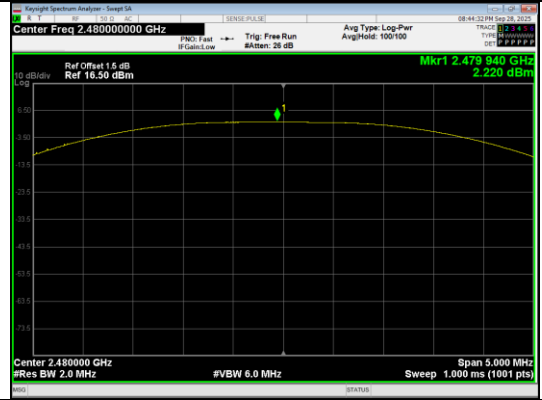
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	2.27	1.69	≤30	PASS
	19	2.35	1.72	≤30	PASS
	39	2.18	1.65	≤30	PASS
BLE 2M	0	2.50	1.78	≤30	PASS
	19	2.49	1.77	≤30	PASS
	39	2.22	1.67	≤30	PASS

Test Graphs





Peak Output Power
BLE 2M_Channel 19



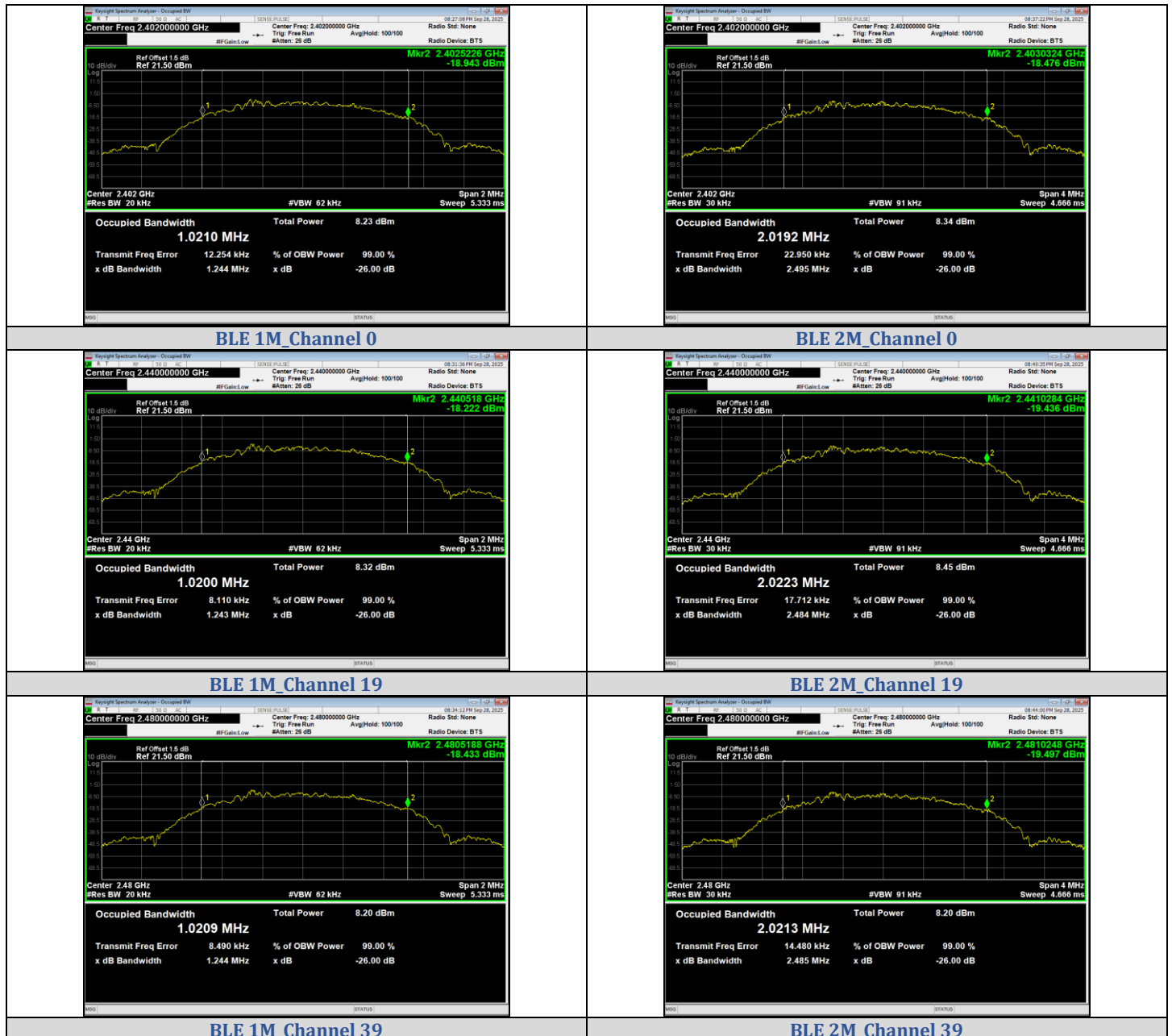
Peak Output Power
BLE 2M_Channel 39

99% Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0210
BLE 1M	19	2440	1.0200
BLE 1M	39	2480	1.0209
BLE 2M	0	2402	2.0192
BLE 2M	19	2440	2.0223
BLE 2M	39	2480	2.0213

Test Graphs

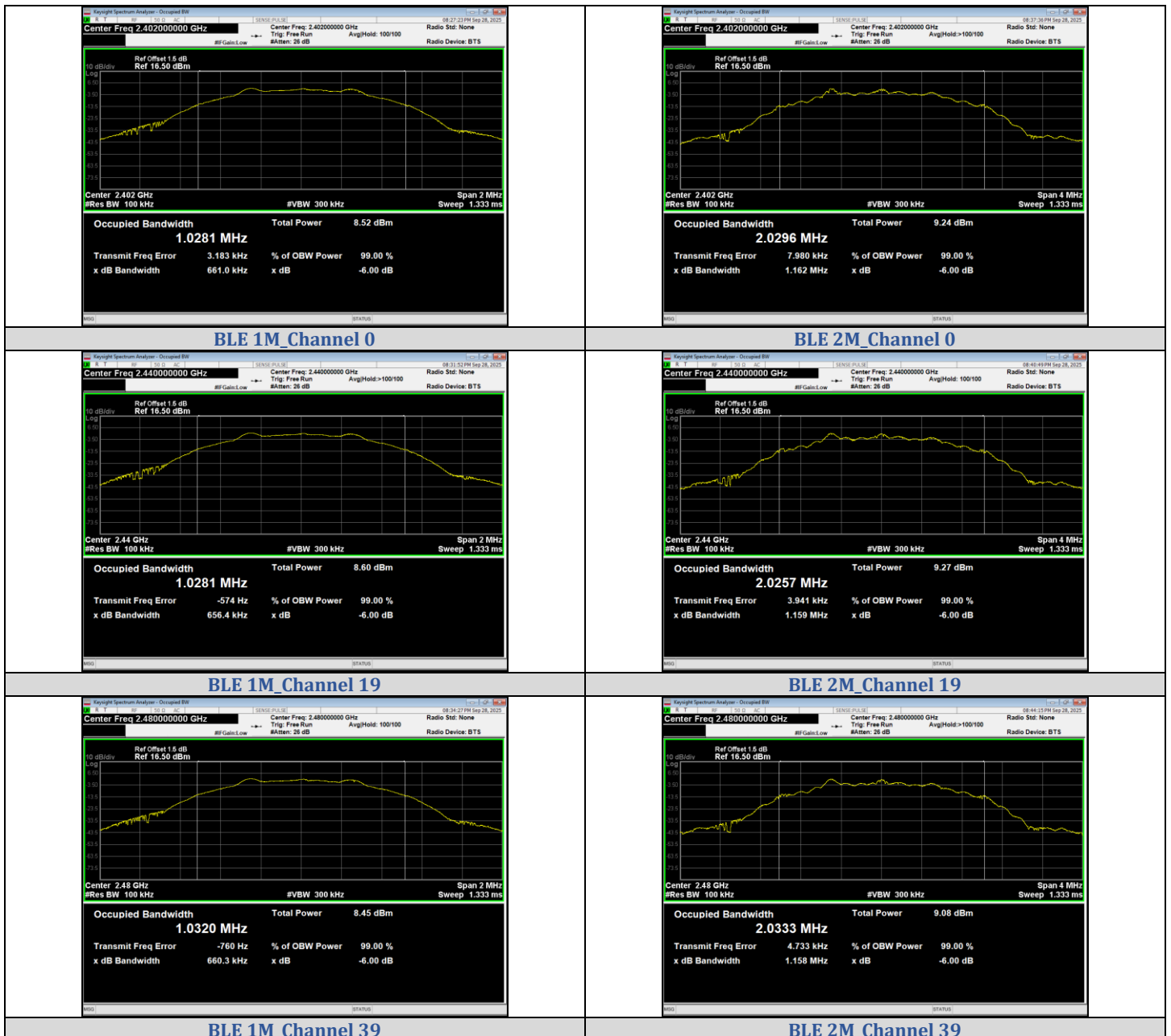


6dB Bandwidth

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	1.160		PASS

Test Graphs

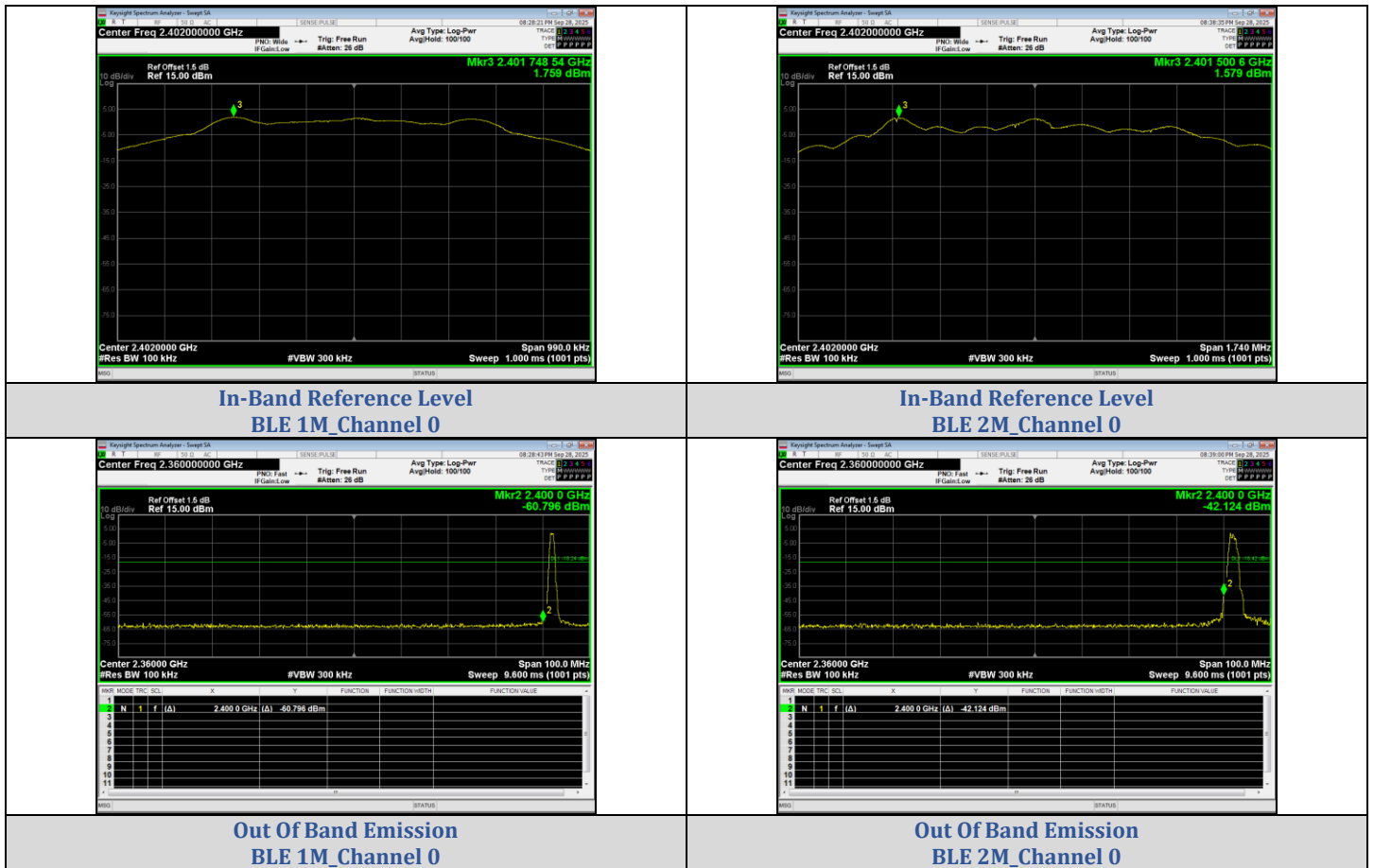


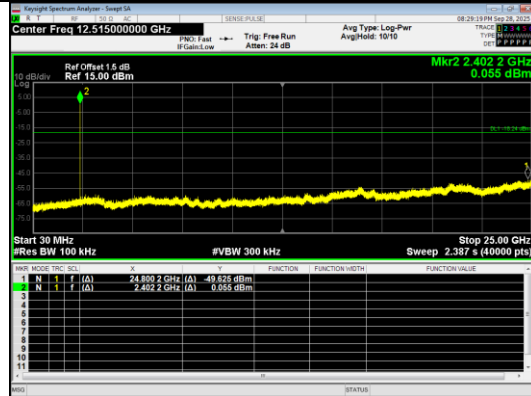
Conducted Out Of Band Emission

Test Result

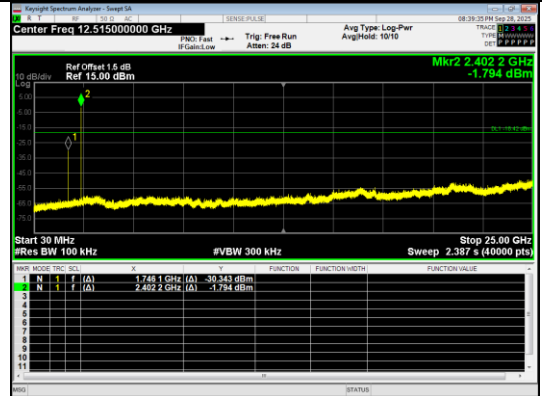
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2399.00	-60.172	-18.24	-41.932	PASS
		2400.00	-60.800	-18.24	-42.560	PASS
		24800.2	-49.625	-18.24	-31.385	PASS
	19	24943.2	-48.910	-18.09	-30.820	PASS
		2483.50	-57.890	-18.28	-39.610	PASS
		24398.2	-49.134	-18.28	-30.854	PASS
BLE 2M	0	1746.11	-30.343	-18.42	-11.923	PASS
		2400.00	-42.120	-18.42	-23.700	PASS
		24921.3	-48.508	-18.3	-30.208	PASS
	19	2483.50	-57.010	-18.47	-38.540	PASS
		24349.5	-48.852	-18.47	-30.382	PASS

Test Graphs





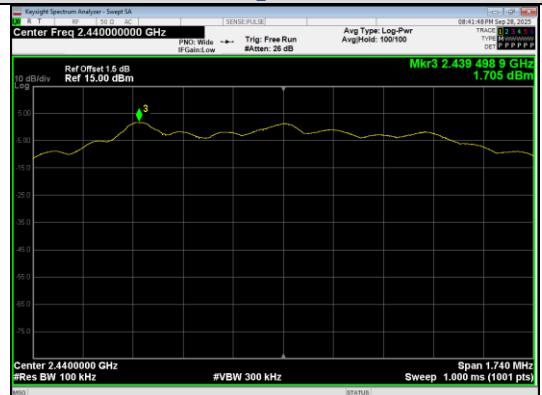
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



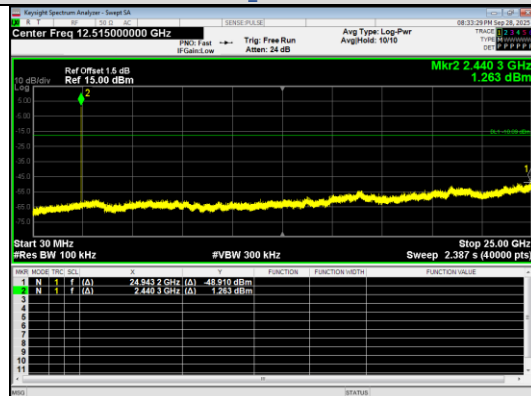
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



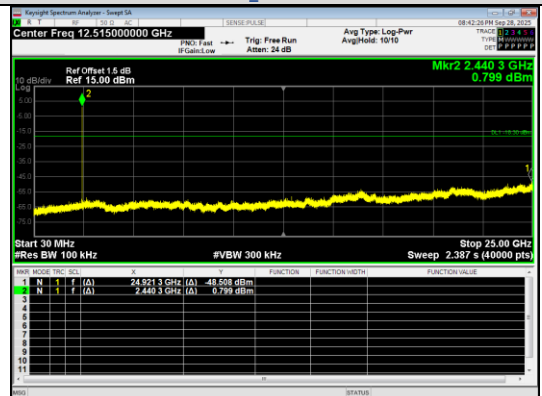
In-Band Reference Level
BLE 1M_Channel 19



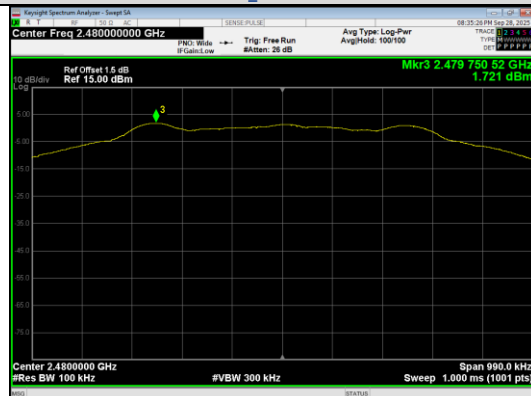
In-Band Reference Level
BLE 2M_Channel 19



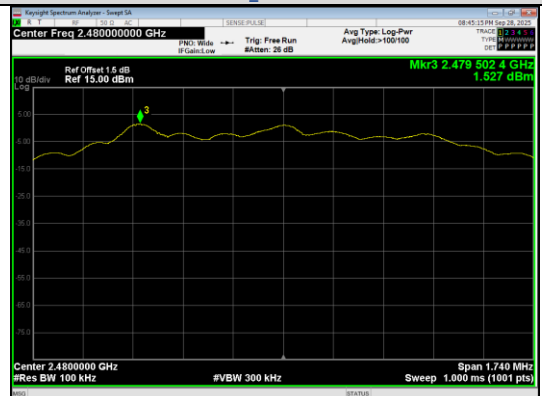
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



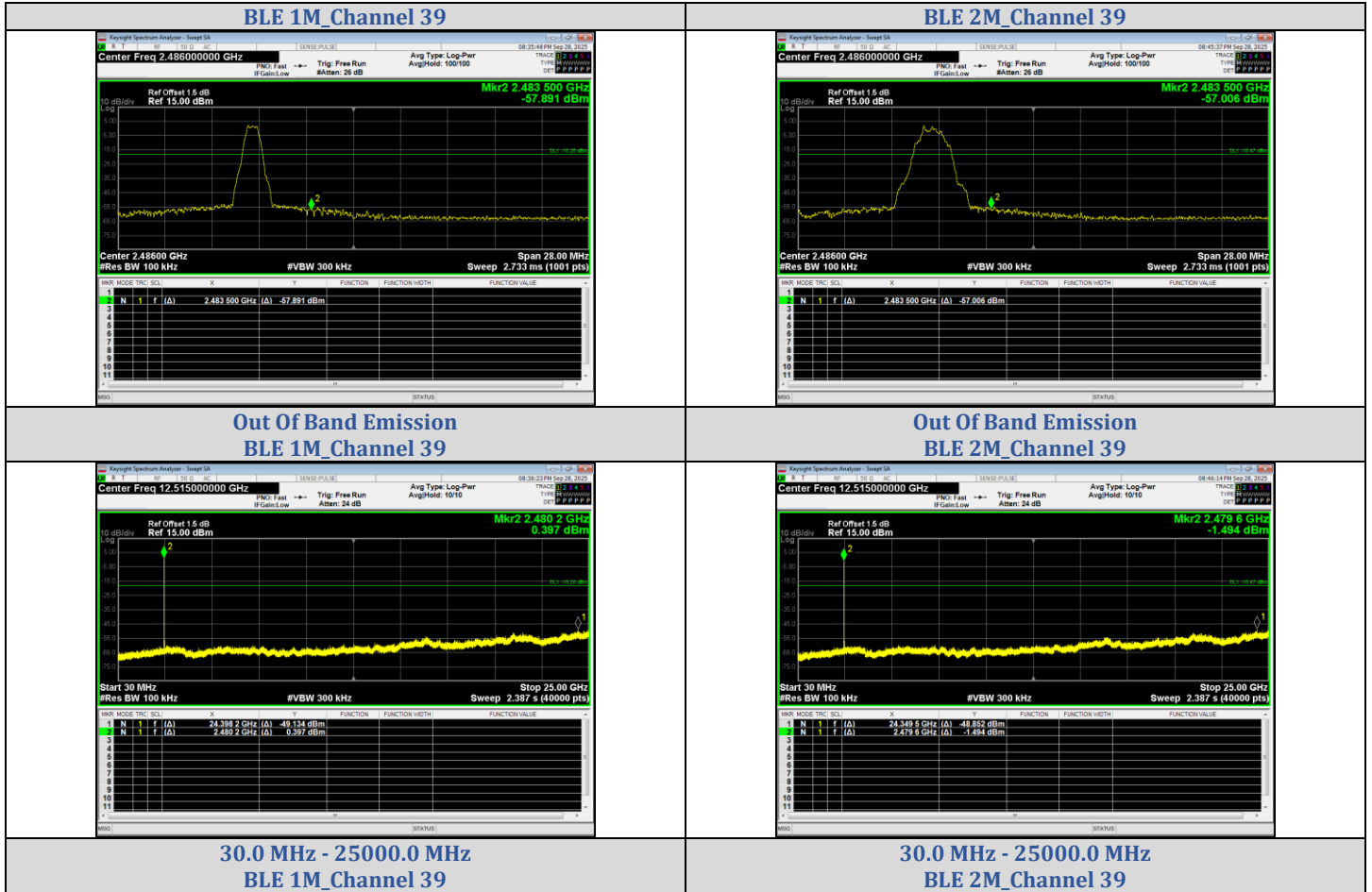
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



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	1.638	1.874	87.37	0.8737	0.5864	0.6105
	39	1.637	1.874	87.32	0.8732	0.5889	0.6109
BLE 2M	0	0.824	1.250	65.94	0.6594	1.8085	1.2136
	19	0.824	1.250	65.91	0.6591	1.8105	1.2136
	39	0.823	1.249	65.92	0.6592	1.8098	1.2151

Test Graphs

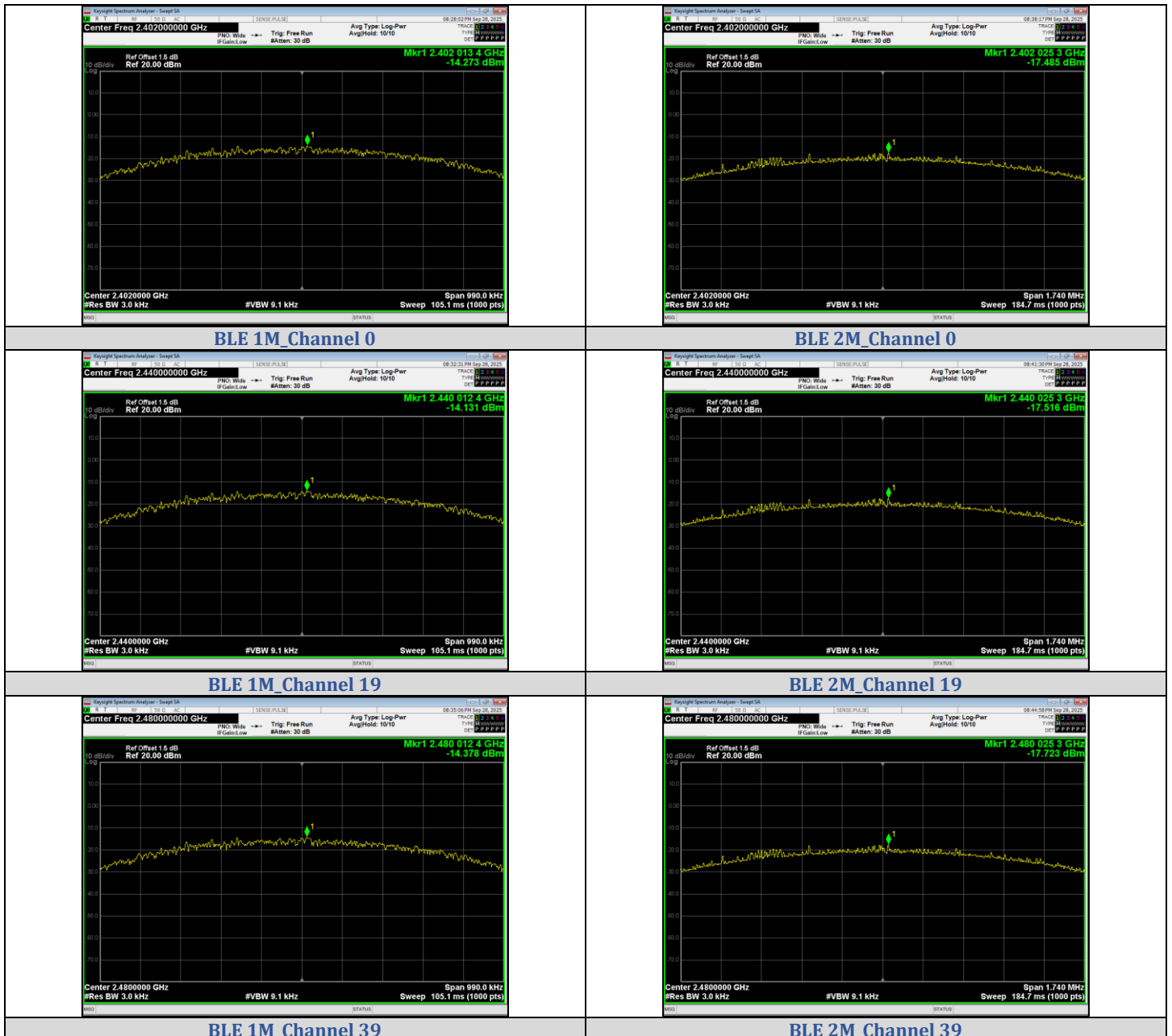


Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-14.270	≤8	PASS
BLE 1M	19	-14.130	≤8	PASS
BLE 1M	39	-14.380	≤8	PASS
BLE 2M	0	-17.480	≤8	PASS
BLE 2M	19	-17.520	≤8	PASS
BLE 2M	39	-17.720	≤8	PASS

Test Graphs



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