

Appendix - BLE

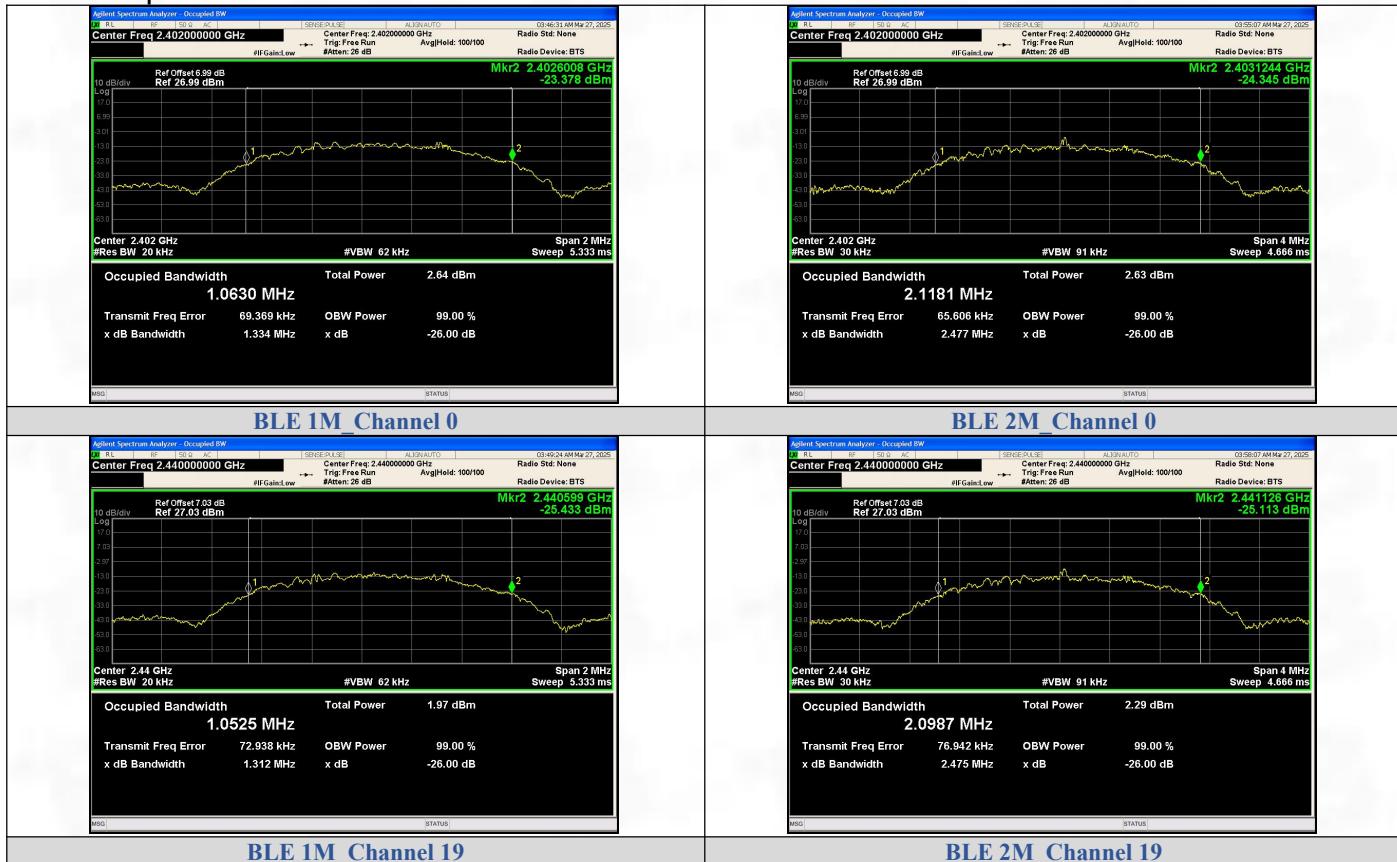
1. Occupied Bandwidth

1.1 Test Result

1.1.1 99% Bandwidth

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0630
	19	2440	1.0525
	39	2480	1.0492
BLE 2M	0	2402	2.1181
	19	2440	2.0987
	39	2480	2.0989

Test Graphs

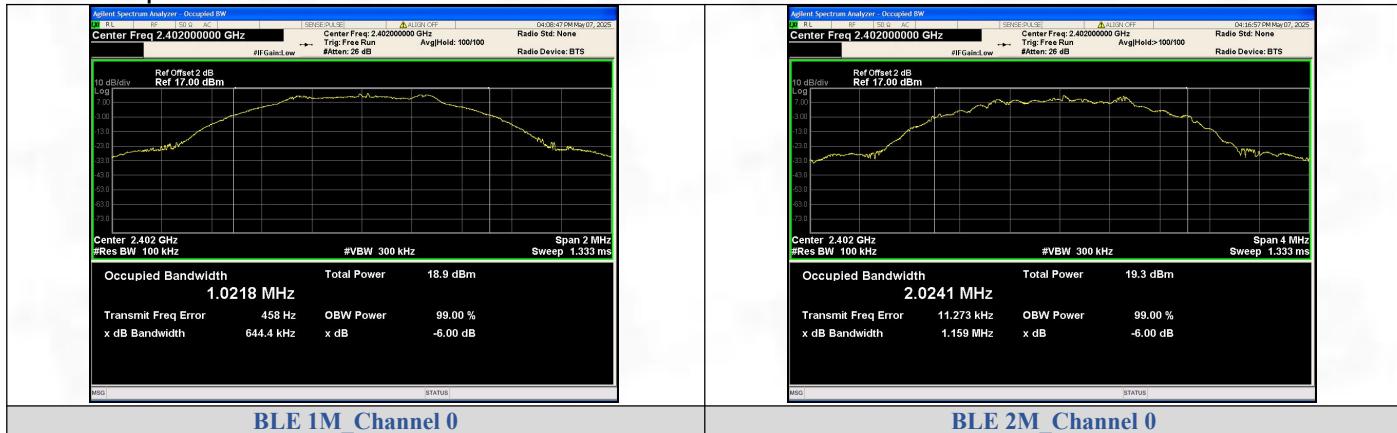


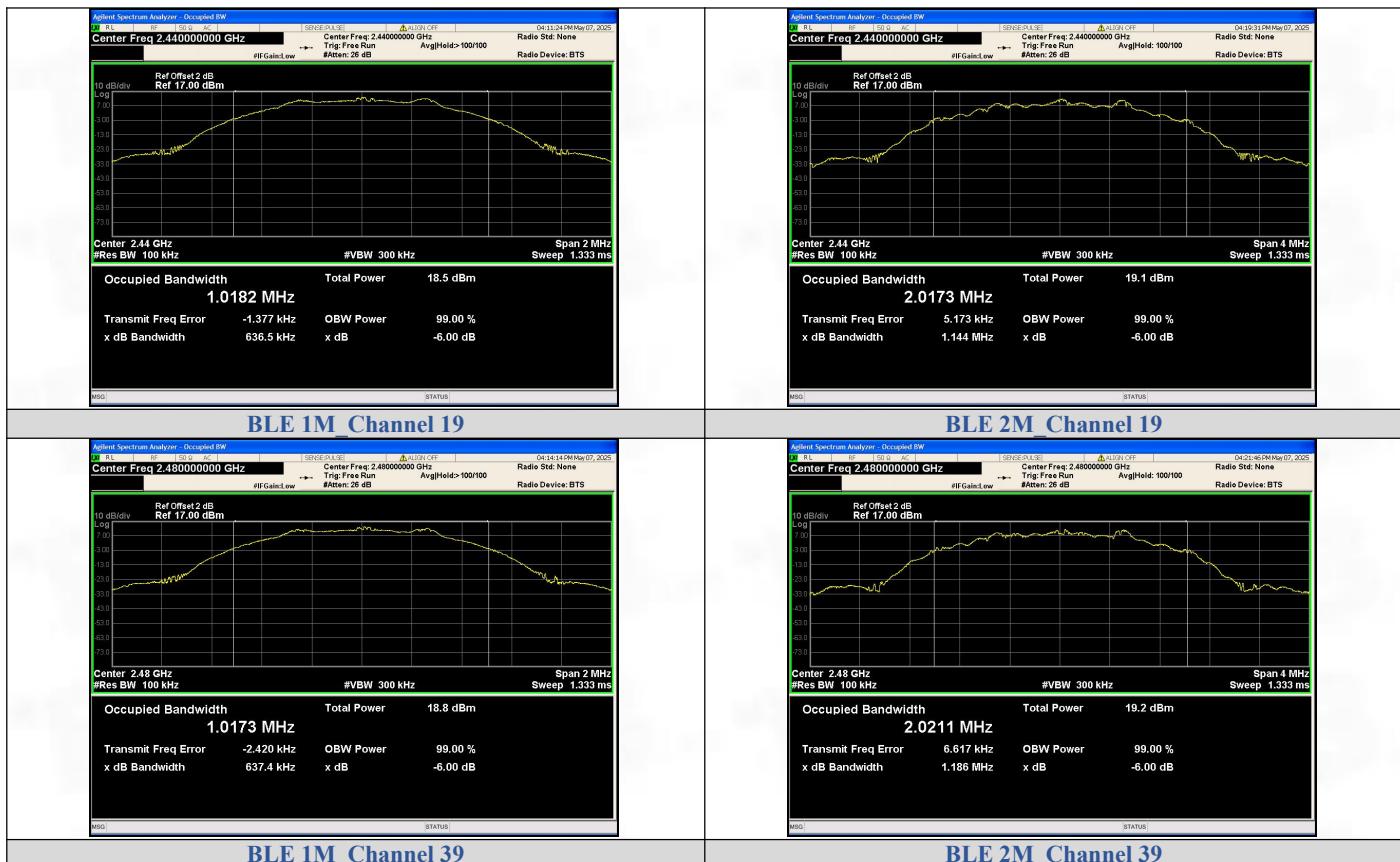


1.1.2 6dB Bandwidth

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6444	≥0.5	PASS
	19	2440	0.6365		PASS
	39	2480	0.6374		PASS
BLE 2M	0	2402	1.159	≥0.5	PASS
	19	2440	1.144		PASS
	39	2480	1.186		PASS

Test Graphs





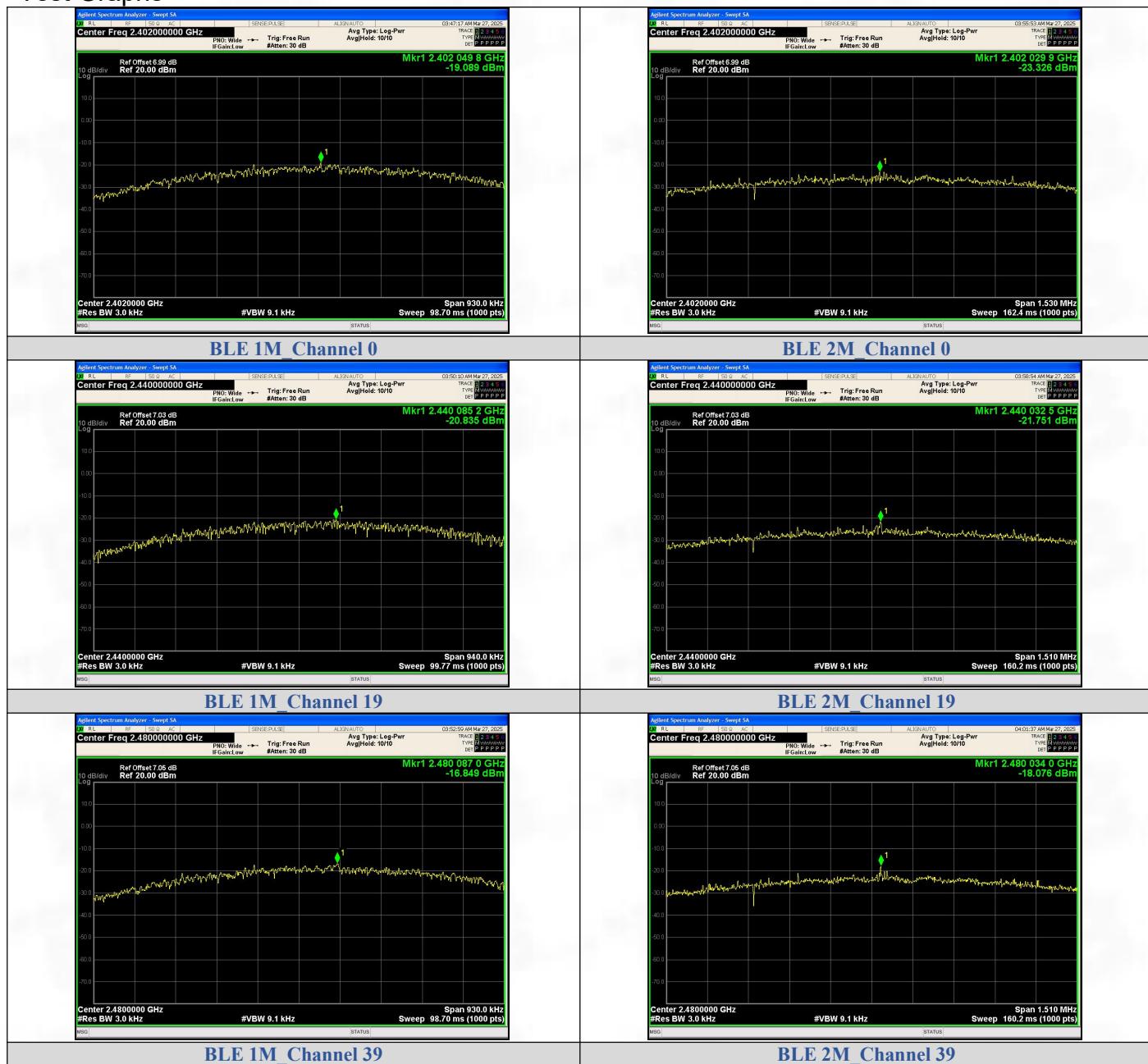
1.1.3 Maximum Conducted Output Power

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	-3.49	0.45	≤30	PASS
	19	-3.98	0.4	≤30	PASS
	39	-1.22	0.75	≤30	PASS
BLE 2M	0	-3.42	0.46	≤30	PASS
	19	-3.85	0.41	≤30	PASS
	39	-1.20	0.76	≤30	PASS

1.1.4 Power Spectral Density

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-19.089	≤8	PASS
	19	-20.835	≤8	PASS
	39	-16.849	≤8	PASS
BLE 2M	0	-23.326	≤8	PASS
	19	-21.751	≤8	PASS
	39	-18.076	≤8	PASS

Test Graphs



1.1.5 Emissions in non-restricted frequency bands

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-45.500	-23.73	-21.770	PASS
		4803.64	-68.760	-23.73	-45.030	PASS
		7205.75	-65.611	-23.73	-41.881	PASS
		9607.24	-69.521	-23.73	-45.791	PASS
		24856.4	-52.824	-23.73	-29.094	PASS
	19	4880.42	-67.525	-24.1	-43.425	PASS
		7319.37	-66.297	-24.1	-42.197	PASS
		9760.18	-70.296	-24.1	-46.196	PASS
		24843.3	-53.509	-24.1	-29.409	PASS
	39	2483.50	-54.560	-21.33	-33.230	PASS
		4959.70	-67.300	-21.33	-45.970	PASS
		7441.10	-64.559	-21.33	-43.229	PASS
		9919.99	-68.927	-21.33	-47.597	PASS
		24910.7	-52.978	-21.33	-31.648	PASS
BLE 2M	0	2400.00	-34.492	-24.17	-10.322	PASS
		4804.26	-68.856	-24.17	-44.686	PASS
		7205.13	-65.335	-24.17	-41.165	PASS
		9607.24	-68.758	-24.17	-44.588	PASS
		24843.3	-54.301	-24.17	-30.131	PASS
	19	4879.17	-66.811	-24.53	-42.281	PASS
		5185.68	-52.783	-24.53	-28.253	PASS
		7320.62	-66.638	-24.53	-42.108	PASS
		9760.81	-69.570	-24.53	-45.040	PASS
	39	2483.50	-54.037	-21.87	-32.167	PASS
		4960.95	-69.211	-21.87	-47.341	PASS
		7438.60	-68.429	-21.87	-46.559	PASS
		9921.24	-68.882	-21.87	-47.012	PASS
		24252.8	-53.751	-21.87	-31.881	PASS

Test Graphs



