

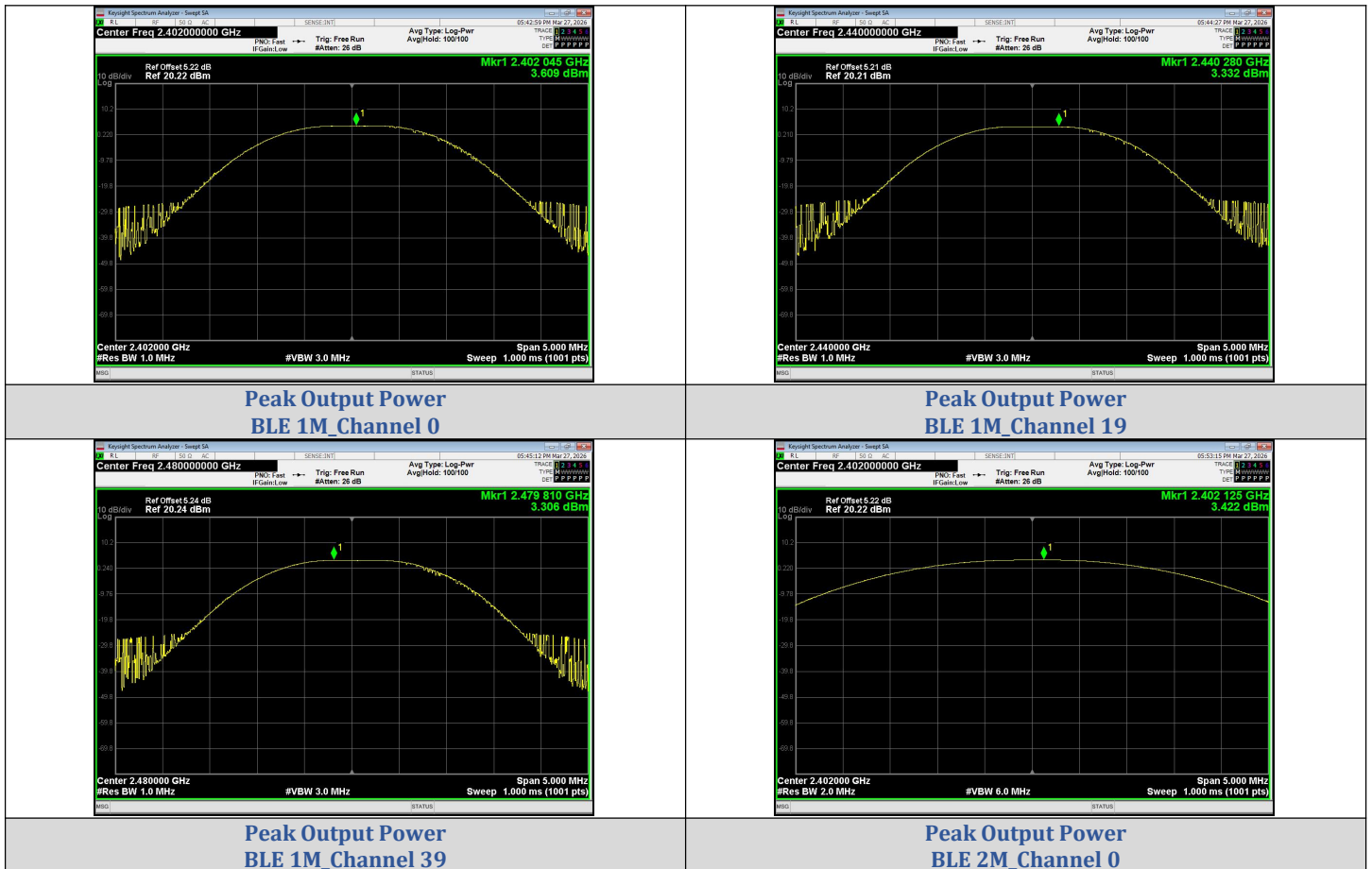
Appendix A: Test Results of Bluetooth BLE

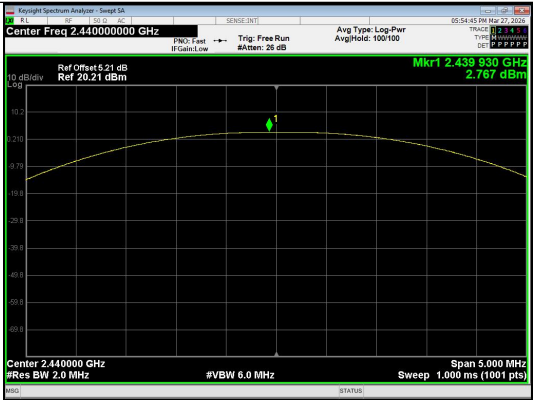
Conducted Output Power

Test Result

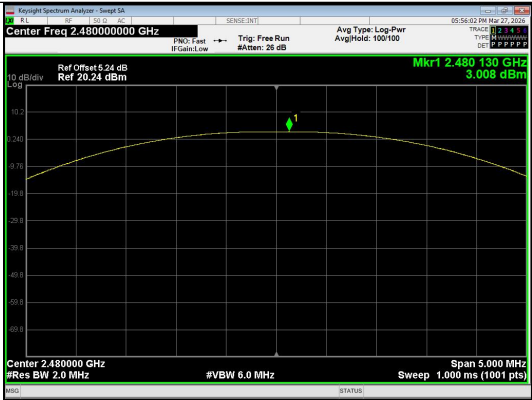
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
BLE 1M	0	3.61	2.3	None	≤30	PASS
	19	3.33	2.15	None	≤30	PASS
	39	3.31	2.14	None	≤30	PASS
BLE 2M	0	3.42	2.2	None	≤30	PASS
	19	2.77	1.89	None	≤30	PASS
	39	3.01	2.0	None	≤30	PASS

Test Graphs





Peak Output Power
BLE 2M_Channel 19



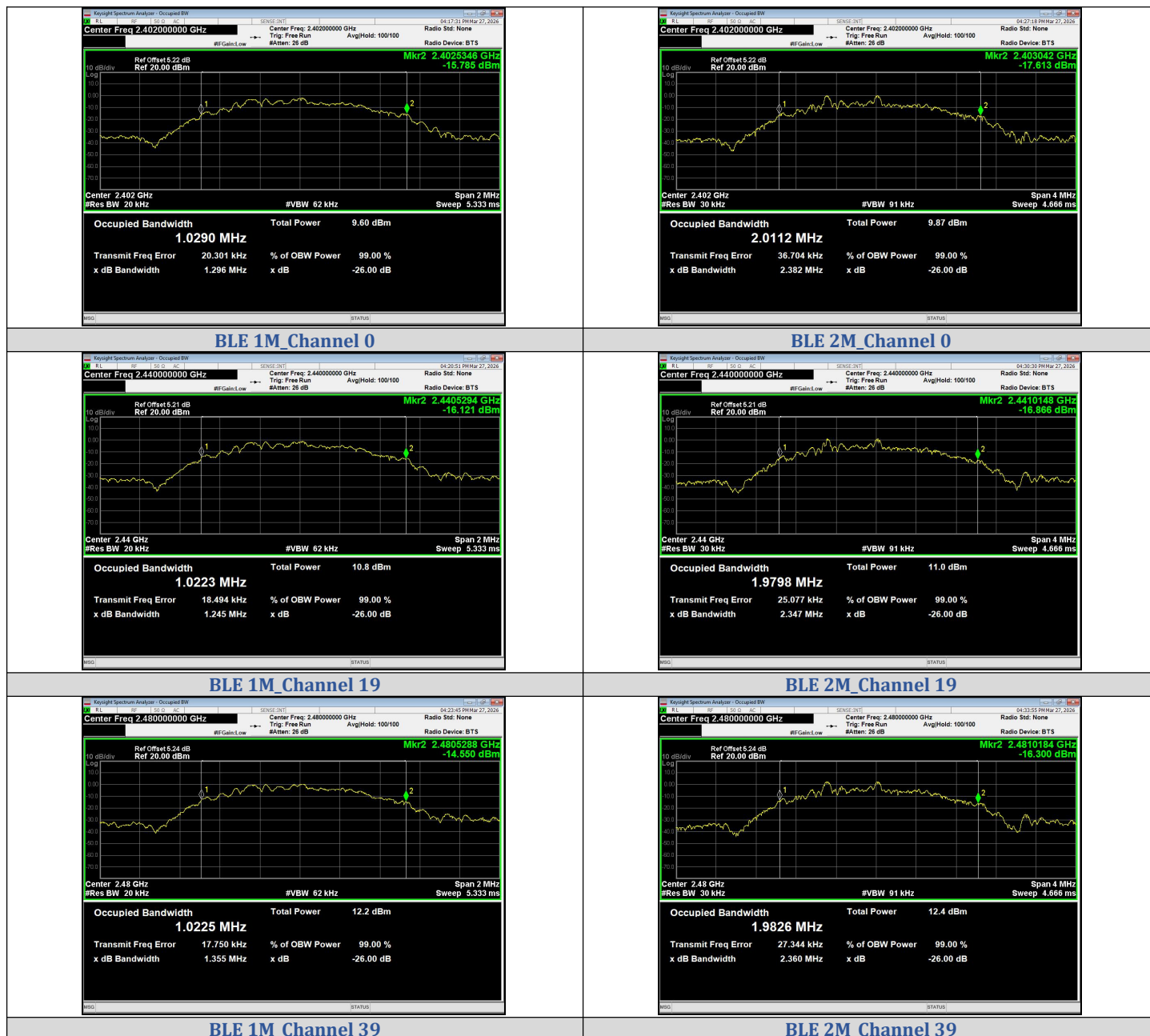
Peak Output Power
BLE 2M_Channel 39

99% Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0290
BLE 1M	19	2440	1.0223
BLE 1M	39	2480	1.0225
BLE 2M	0	2402	2.0112
BLE 2M	19	2440	1.9798
BLE 2M	39	2480	1.9826

Test Graphs

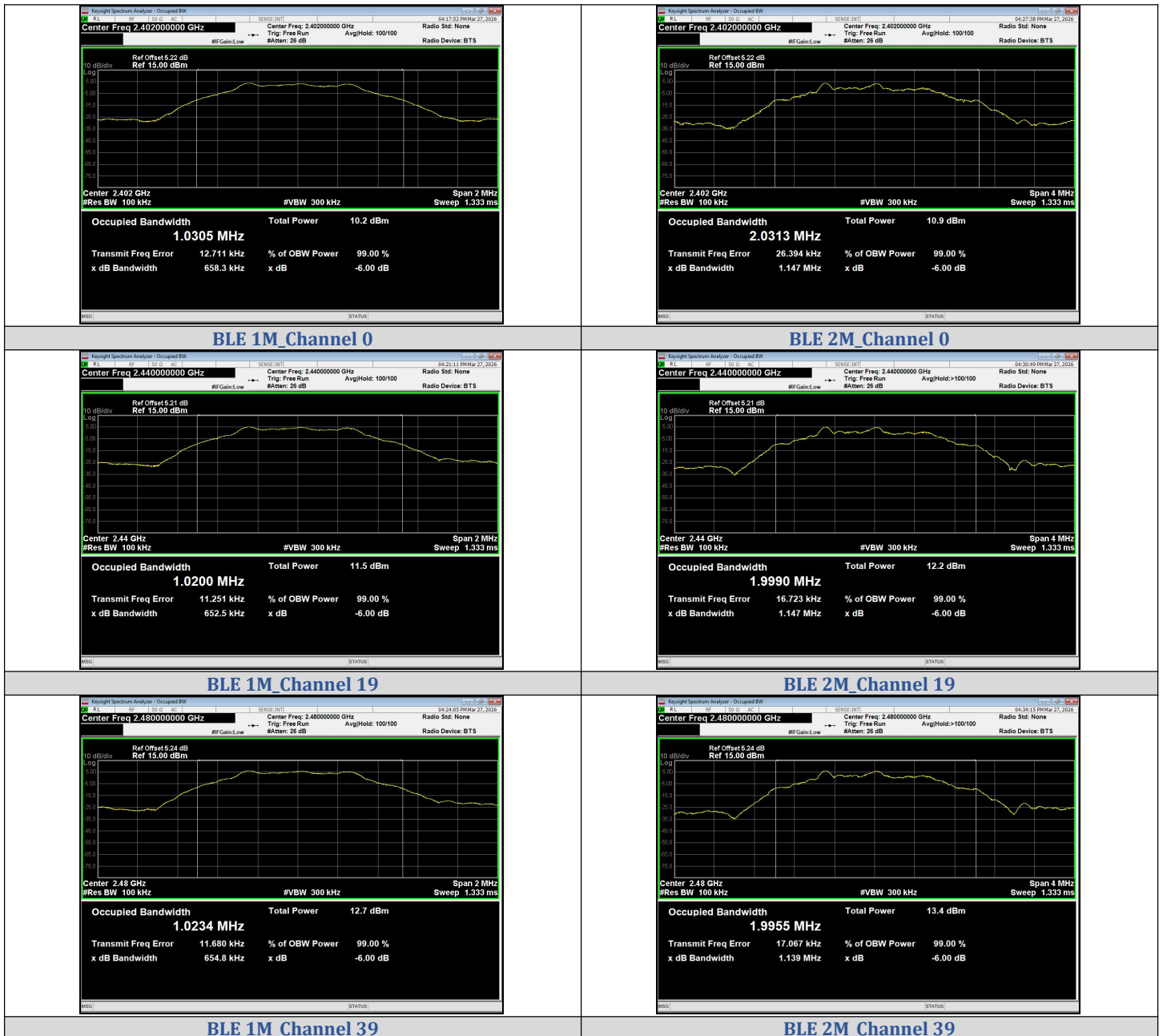


6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6583	≥0.5	PASS
	19	2440	0.6525		PASS
	39	2480	0.6548		PASS
BLE 2M	0	2402	1.147		PASS
	19	2440	1.147		PASS
	39	2480	1.139		PASS

Test Graphs



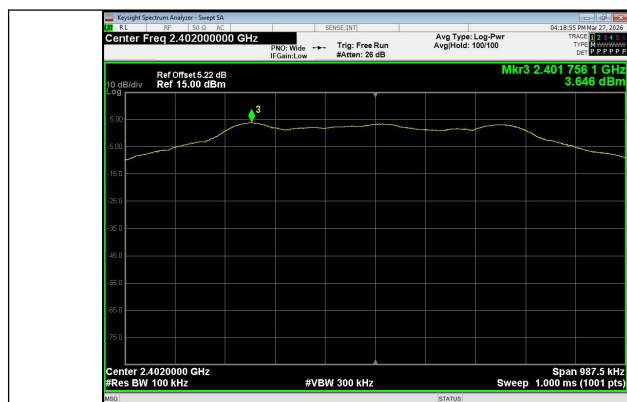
Conducted Spurious & Band Edge Emission

Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2397.55	-48.720	-16.35	-32.370	PASS
		2400.00	-50.306	-16.35	-33.956	PASS
		4803.60	-44.254	-16.35	-27.904	PASS
	19	4880.42	-42.195	-15.1	-27.095	PASS
		2483.50	-52.334	-13.86	-38.474	PASS
		4960.33	-41.409	-13.86	-27.549	PASS
BLE 2M	0	2400.00	-28.502	-16.36	-12.142	PASS
		9606.00	-44.178	-16.36	-27.818	PASS
	19	4879.17	-41.116	-15.05	-26.066	PASS
		2483.50	-49.536	-13.83	-35.706	PASS
	39	4960.33	-42.845	-13.83	-29.015	PASS

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

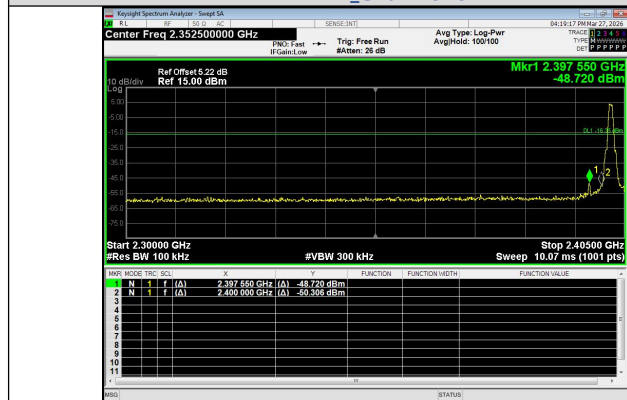
Test Graphs



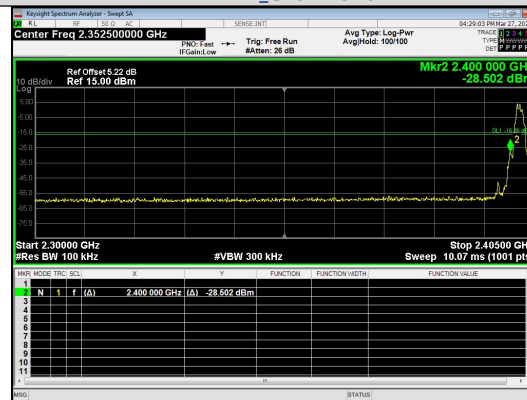
**In-Band Reference Level
BLE 1M_Channel 0**



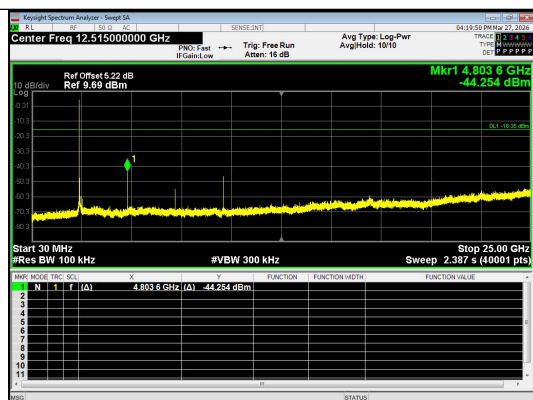
**In-Band Reference Level
BLE 2M_Channel 0**



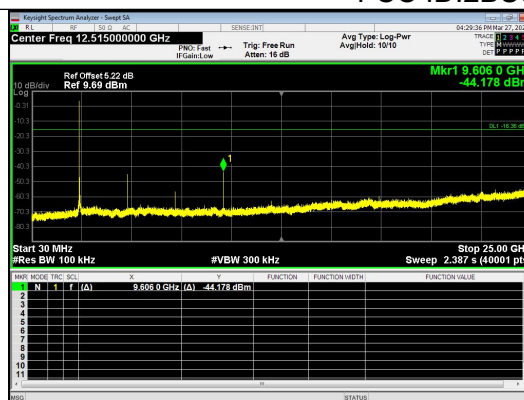
**Out Of Band Emission
BLE 1M_Channel 0**



**Out Of Band Emission
BLE 2M_Channel 0**



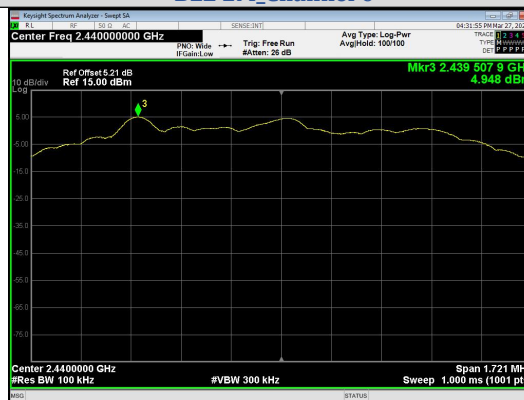
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



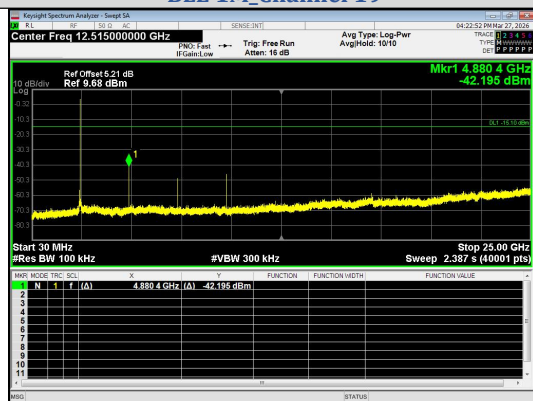
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



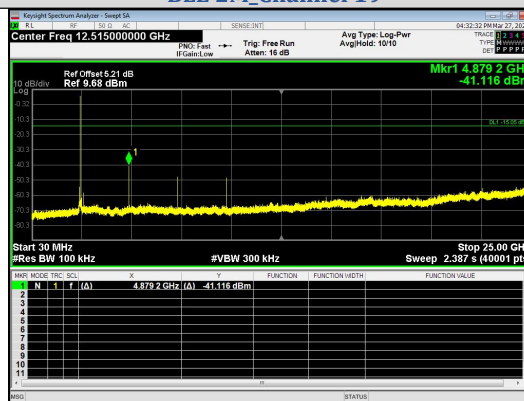
In-Band Reference Level
BLE 1M_Channel 19



In-Band Reference Level
BLE 2M_Channel 19



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



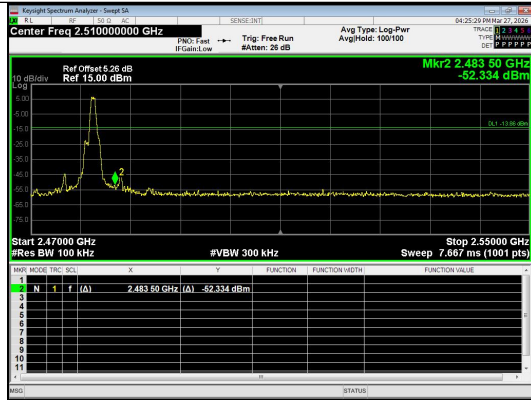
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



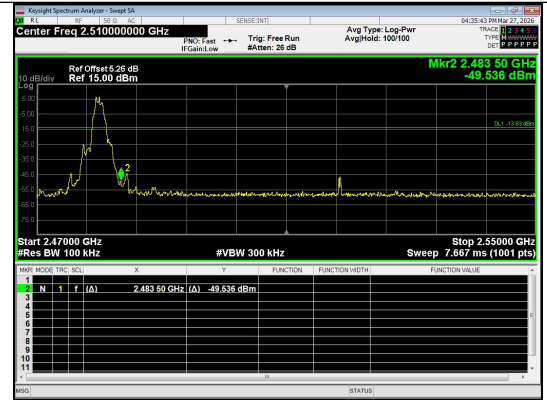
In-Band Reference Level
BLE 1M_Channel 39



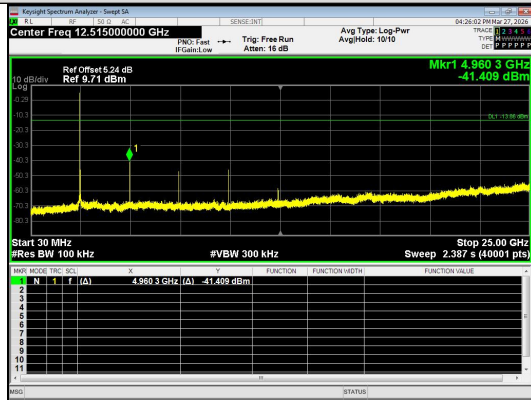
In-Band Reference Level
BLE 2M_Channel 39



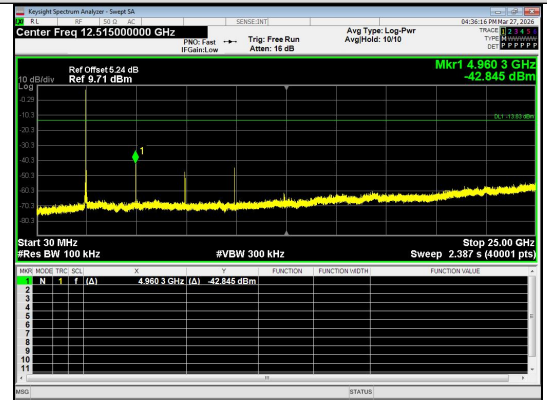
Out Of Band Emission
BLE 1M_Channel 39



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

Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-11.380	≤8	PASS
BLE 1M	19	-10.330	≤8	PASS
BLE 1M	39	-9.090	≤8	PASS
BLE 2M	0	-14.600	≤8	PASS
BLE 2M	19	-13.540	≤8	PASS
BLE 2M	39	-12.170	≤8	PASS

Test Graphs

