

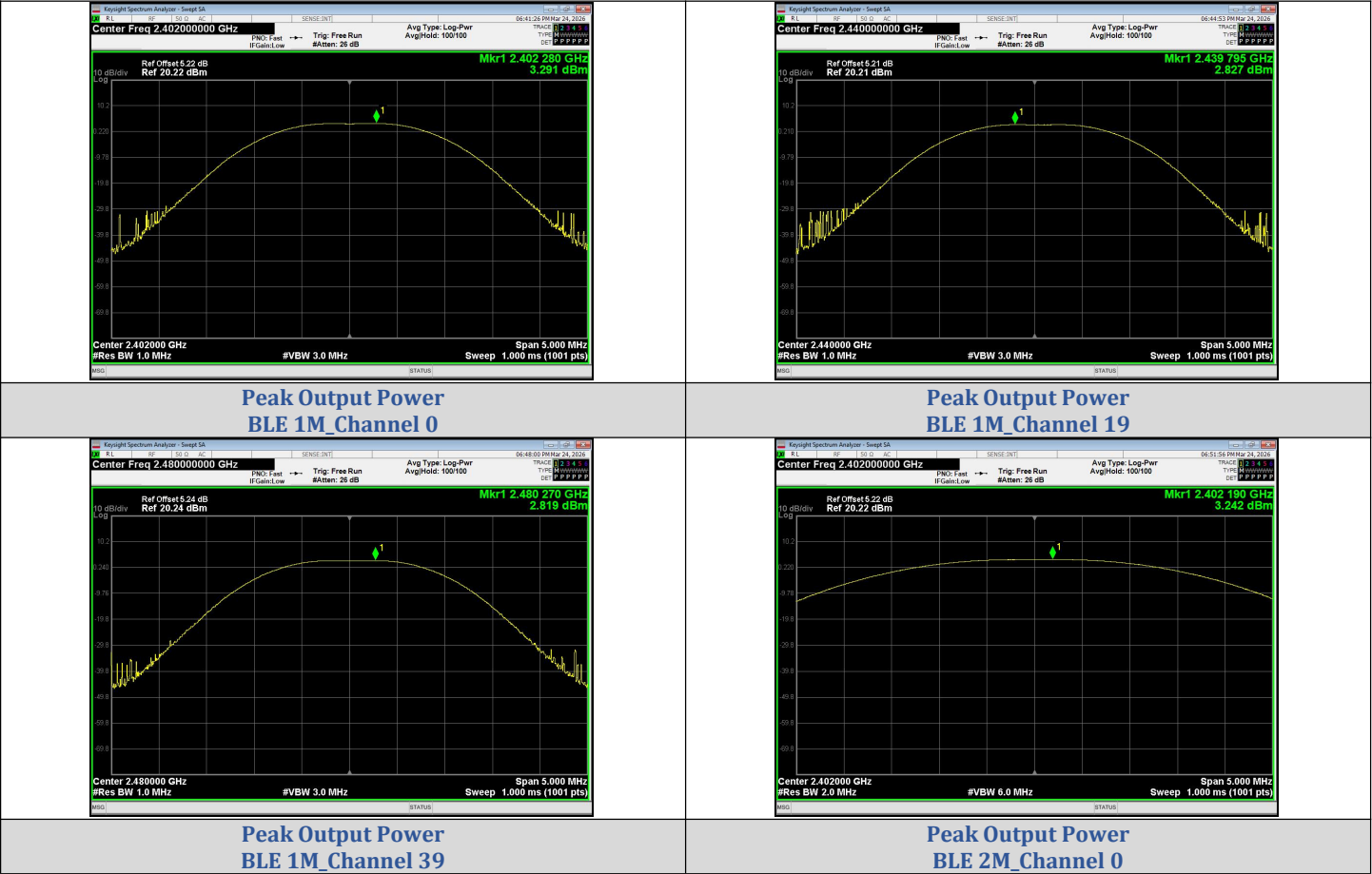
Appendix A: Test Results of Bluetooth BLE

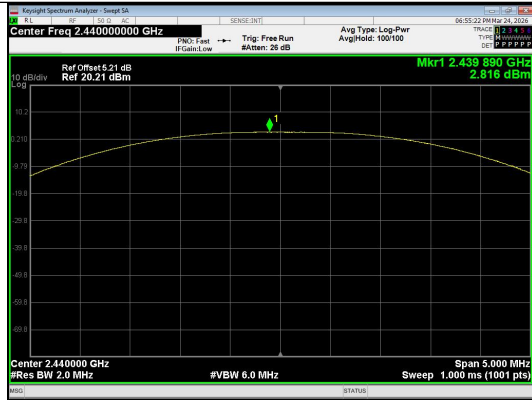
Conducted Output Power

Test Result

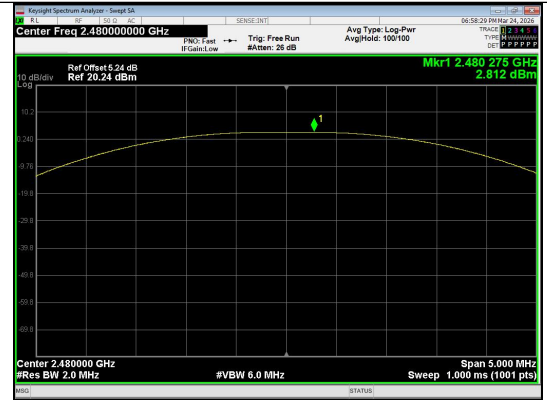
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
BLE 1M	0	3.29	2.13	None	≤30	PASS
	19	2.83	1.92	None	≤30	PASS
	39	2.82	1.91	None	≤30	PASS
BLE 2M	0	3.24	2.11	None	≤30	PASS
	19	2.82	1.91	None	≤30	PASS
	39	2.81	1.91	None	≤30	PASS

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	1.0421
BLE 1M	19	2440	1.0357
BLE 1M	39	2480	1.0368
BLE 2M	0	2402	1.0369
BLE 2M	19	2440	1.0378
BLE 2M	39	2480	1.0351

Test Graphs

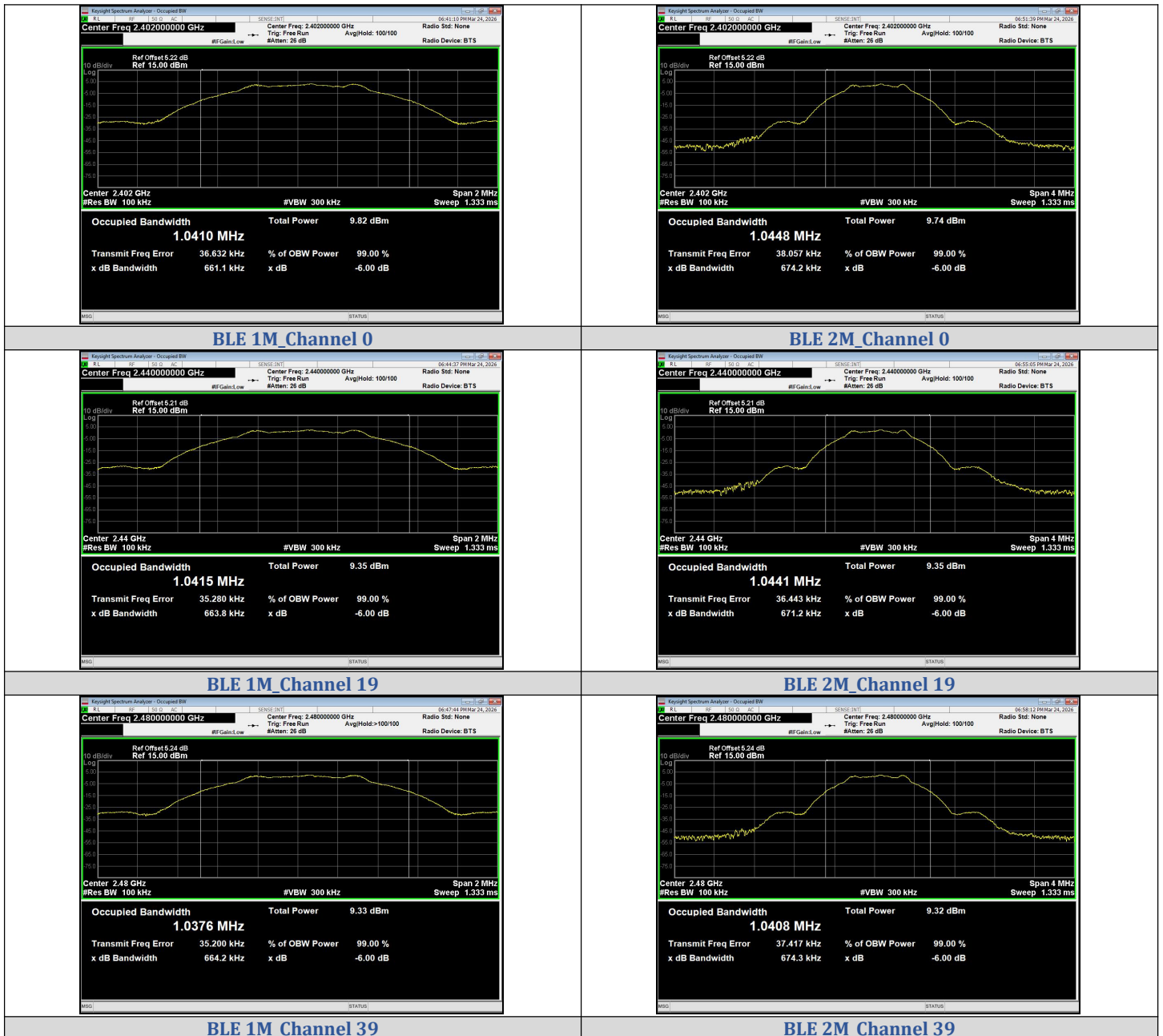


6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6611	≥0.5	PASS
	19	2440	0.6638		PASS
	39	2480	0.6642		PASS
BLE 2M	0	2402	0.6742		PASS
	19	2440	0.6712		PASS
	39	2480	0.6743		PASS

Test Graphs



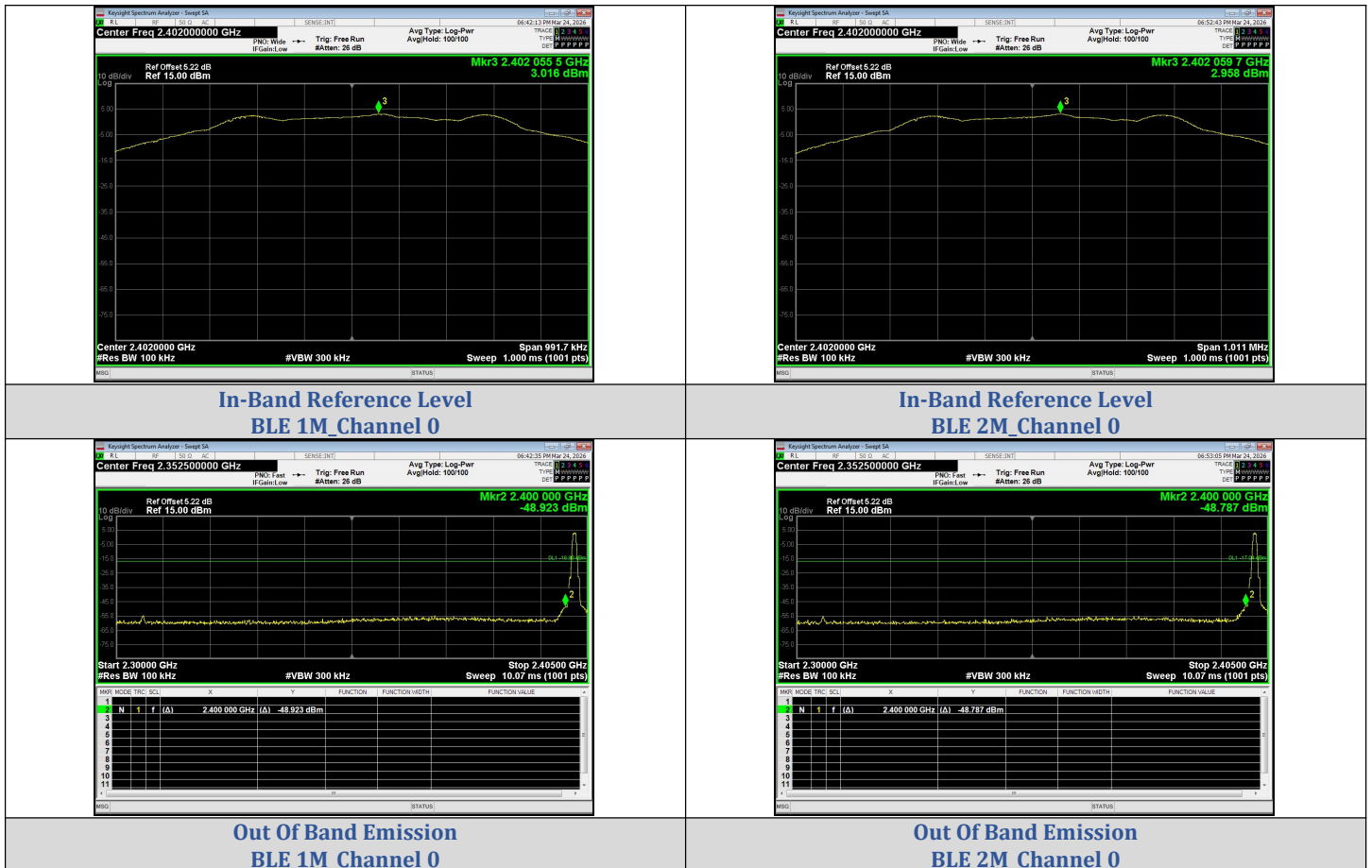
Conducted Spurious & Band Edge Emission

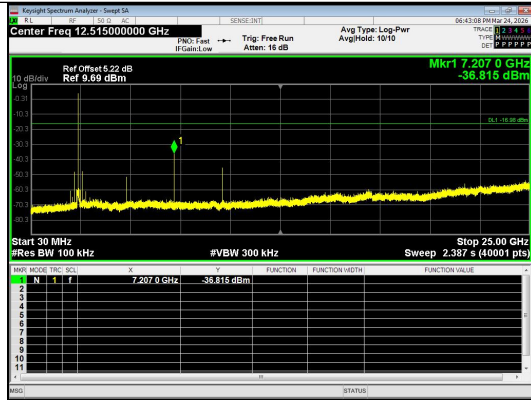
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-48.923	-16.98	-31.943	PASS
		7207.00	-36.815	-16.98	-19.835	PASS
	19	7319.37	-39.579	-17.45	-22.129	PASS
	39	2483.50	-57.338	-17.49	-39.848	PASS
		7439.22	-44.357	-17.49	-26.867	PASS
BLE 2M	0	2400.00	-48.787	-17.04	-31.747	PASS
		7205.13	-39.982	-17.04	-22.942	PASS
	19	7320.62	-39.288	-17.47	-21.818	PASS
	39	2483.50	-55.198	-17.53	-37.668	PASS
		9919.99	-45.131	-17.53	-27.601	PASS

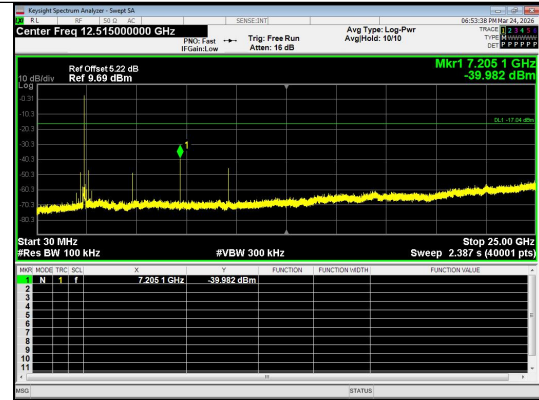
Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs

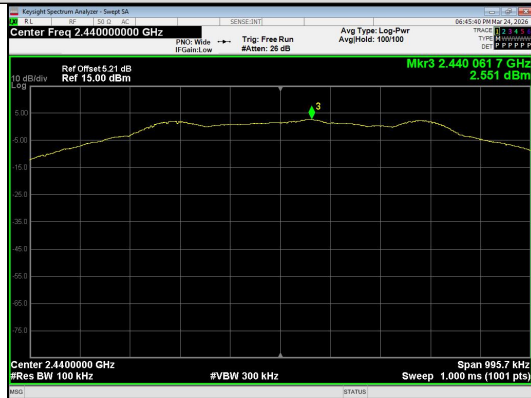




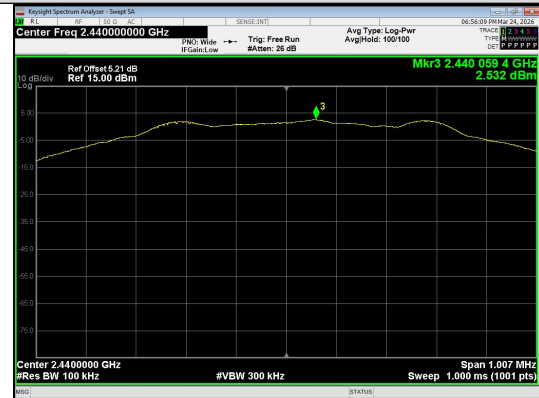
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



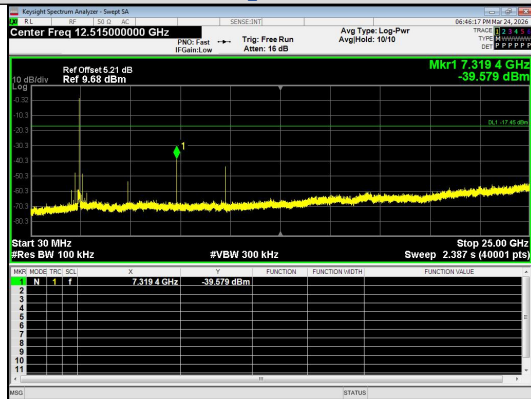
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



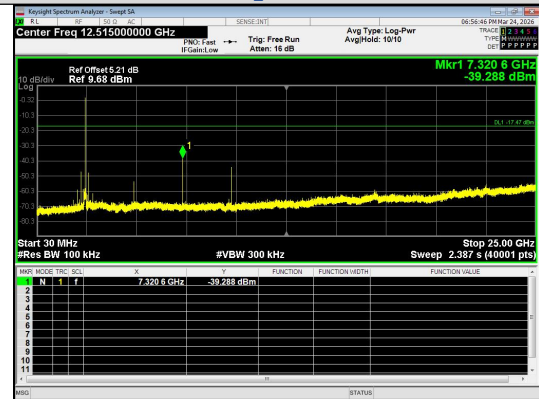
In-Band Reference Level
BLE 1M_Channel 19



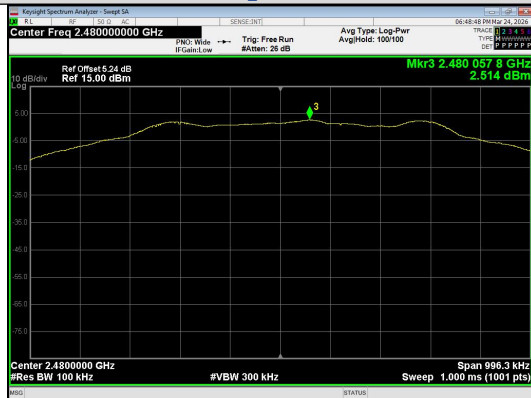
In-Band Reference Level
BLE 2M_Channel 19



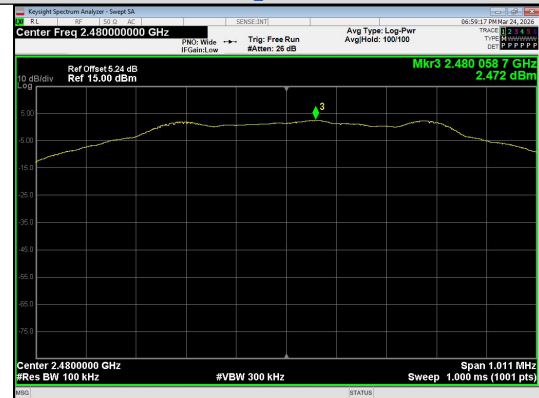
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



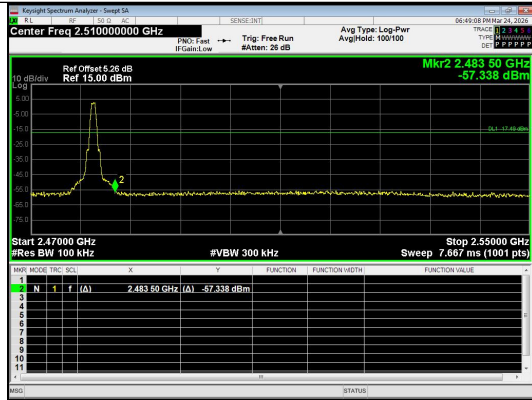
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



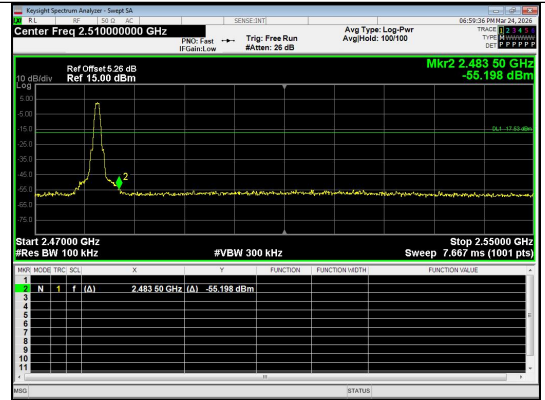
In-Band Reference Level
BLE 1M_Channel 39



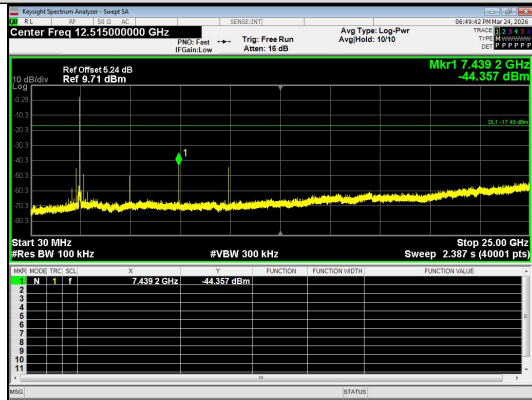
In-Band Reference Level
BLE 2M_Channel 39



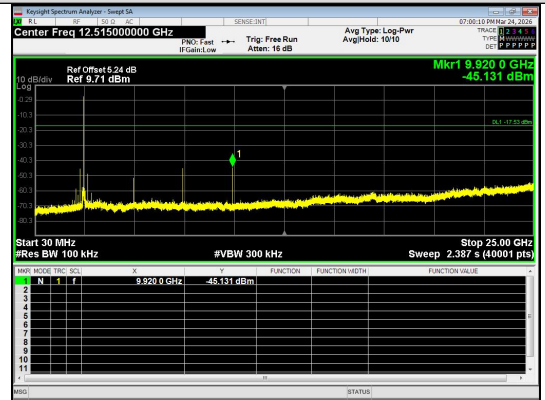
Out Of Band Emission
BLE 1M_Channel 39



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	-12.370	≤8	PASS
BLE 1M	19	-12.730	≤8	PASS
BLE 1M	39	-13.210	≤8	PASS
BLE 2M	0	-12.430	≤8	PASS
BLE 2M	19	-12.960	≤8	PASS
BLE 2M	39	-12.940	≤8	PASS

Test Graphs

