



Appendix B

RF Test Data for BT (BLE) (Conducted Measurement)

Product Name: Robot vacuum cleaner

Trade Mark: N/A

Test Model: AT800

Environmental Conditions

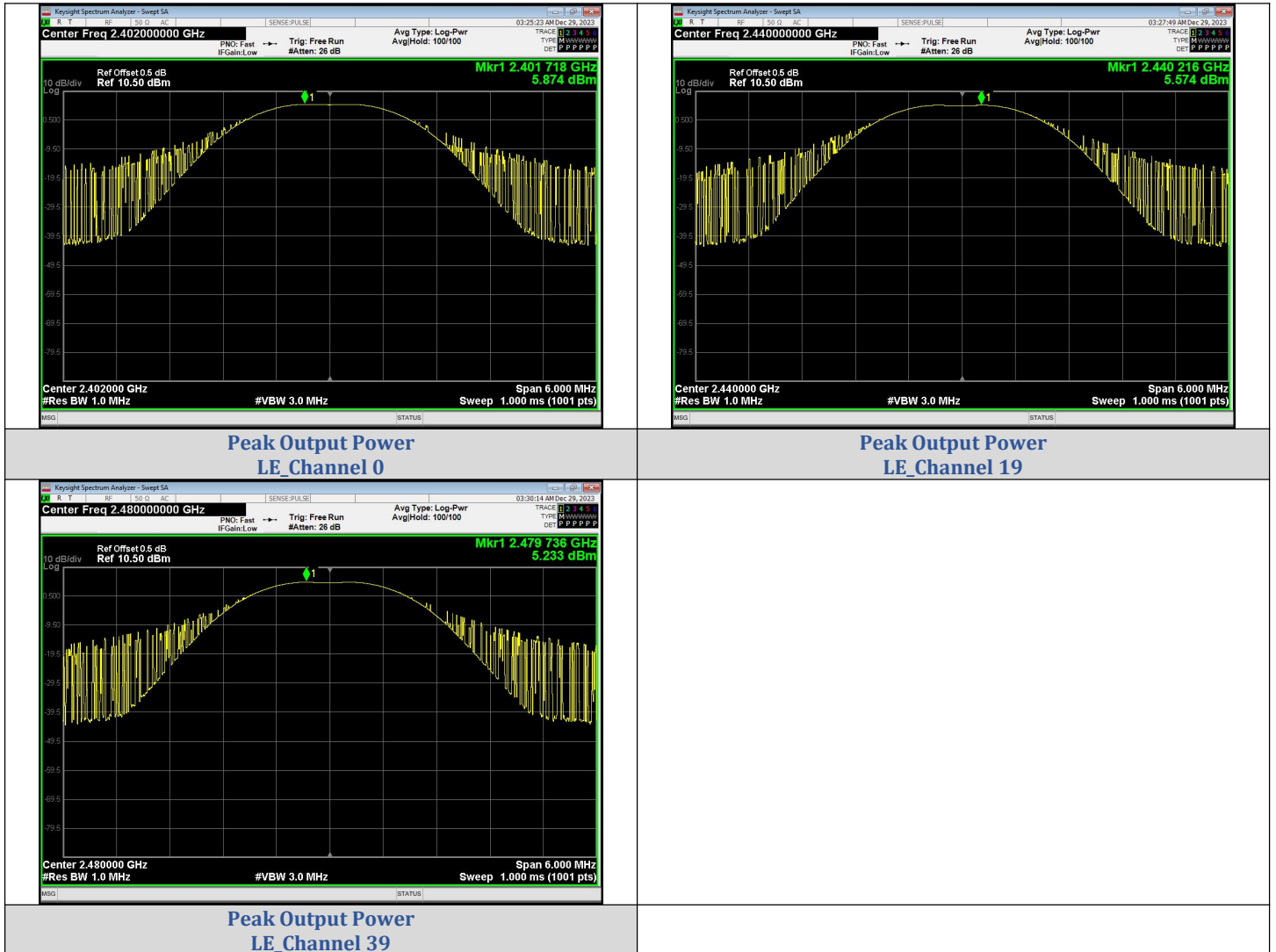
Temperature:	25.8° C
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Sean She
Supervised by:	Eder Zhan



Conducted Peak Output Power Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
LE	0	5.874	3.87	None	30	PASS
	19	5.574	3.61	None	30	PASS
	39	5.233	3.34	None	30	PASS

Test Graphs

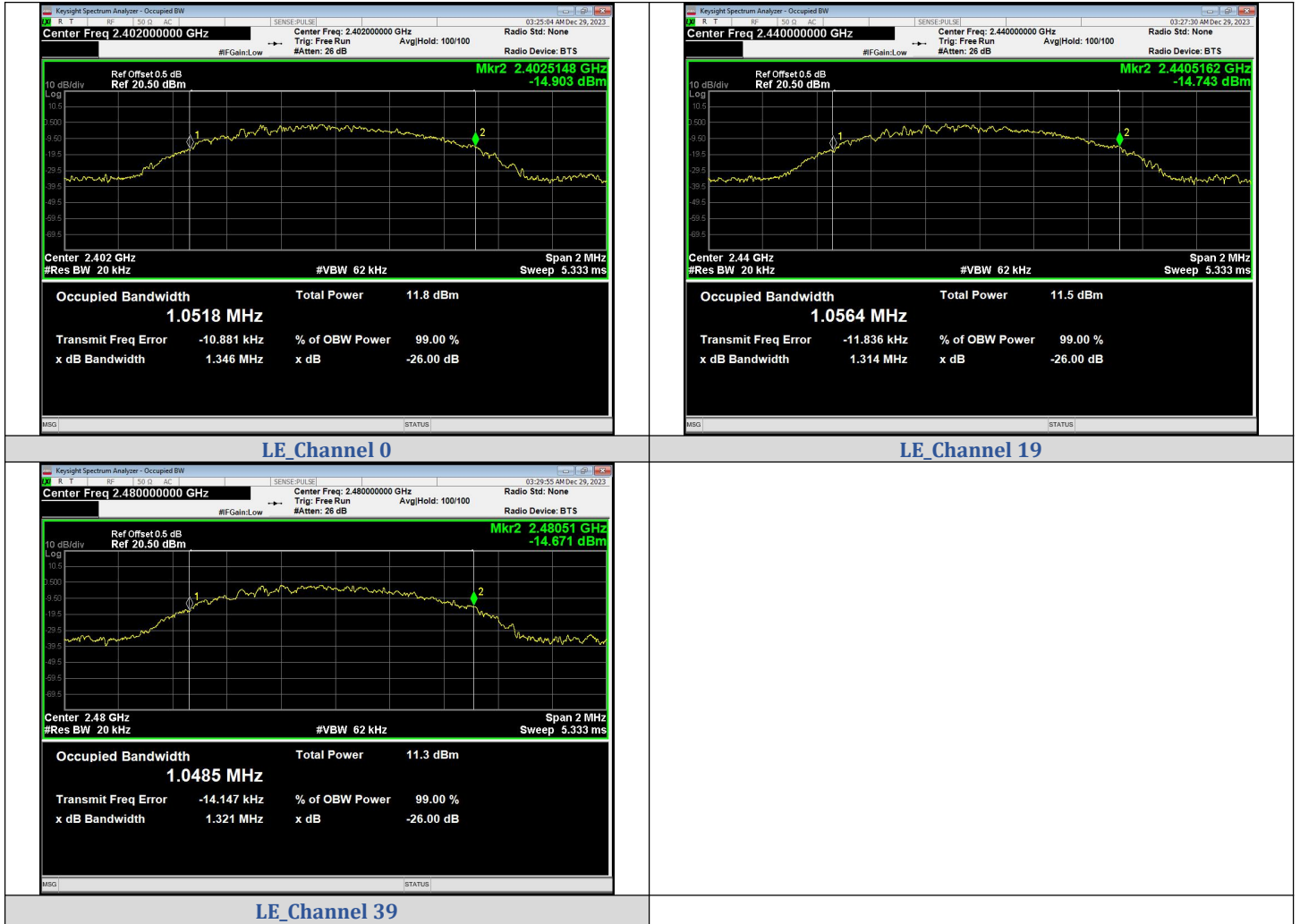




99% Bandwidth Test Result

Mode	Channel	99% BW (MHz)
LE	0	1.0518
LE	19	1.0564
LE	39	1.0485

Test Graphs



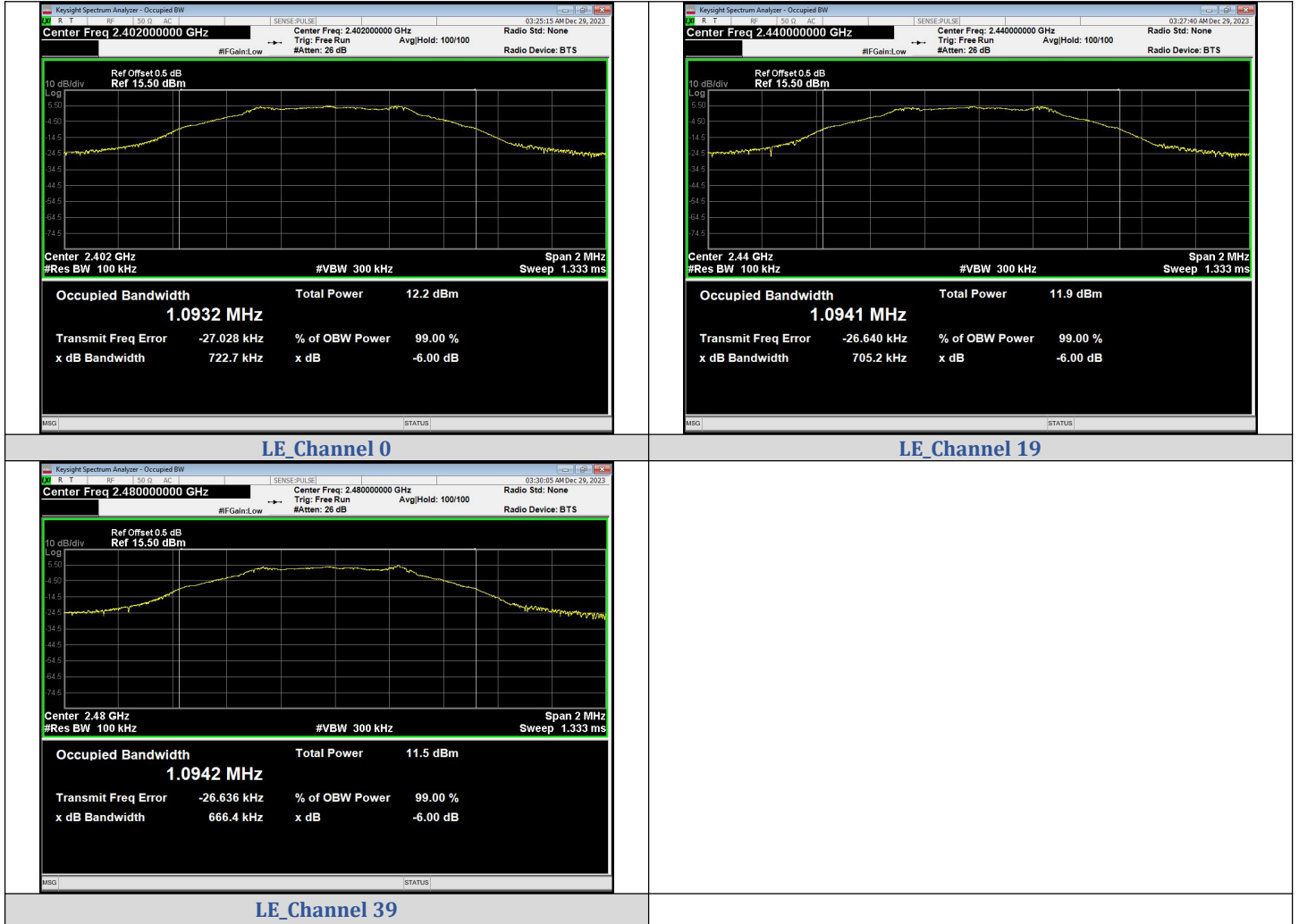


6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
LE	0	2402	0.7227	0.5	PASS
	19	2440	0.7052		PASS
	39	2480	0.6664		PASS

Test Graphs





Conducted Out Of Band Emission

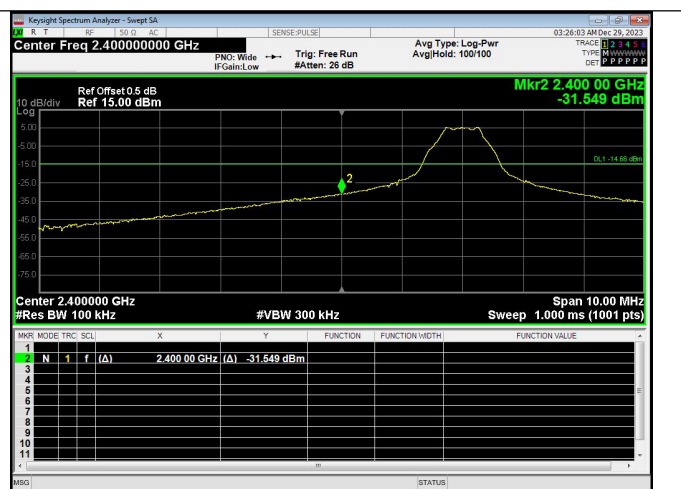
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
LE	0	2400.00	-31.549	-14.66	-16.889	PASS
		2395.97	-47.739	-14.66	-33.079	PASS
	19	24802.1	-49.815	-14.9	-34.915	PASS
	39	2483.50	-38.753	-15.48	-23.273	PASS
		24892.6	-49.997	-15.48	-34.517	PASS

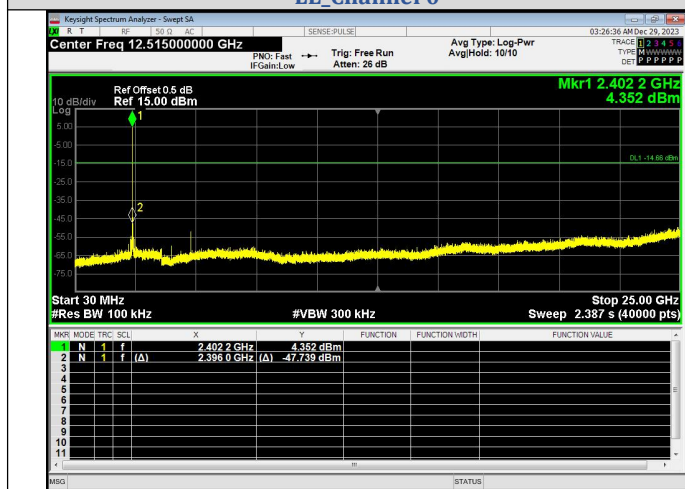
Test Graphs



**In-Band Reference Level
LE_Channel 0**



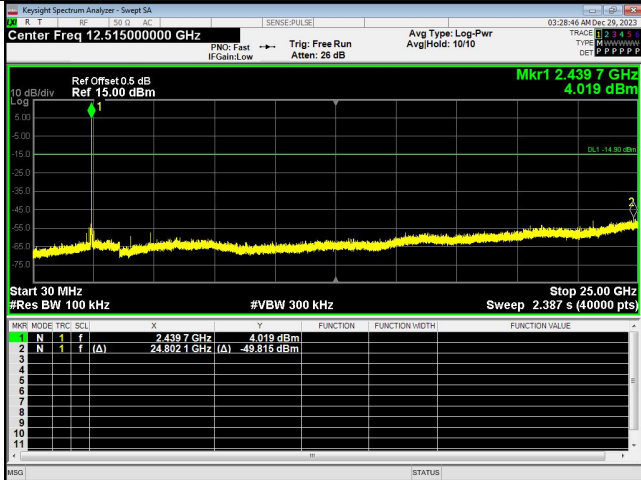
**Out Of Band Emission
LE_Channel 0**



**Spurious Emission
LE_Channel 0**



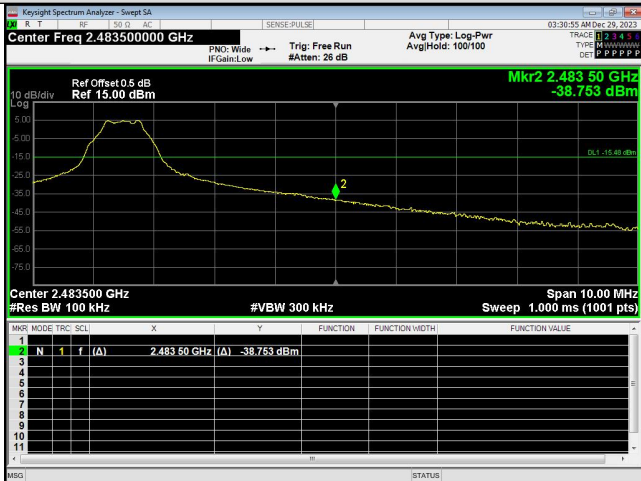
**In-Band Reference Level
LE_Channel 19**



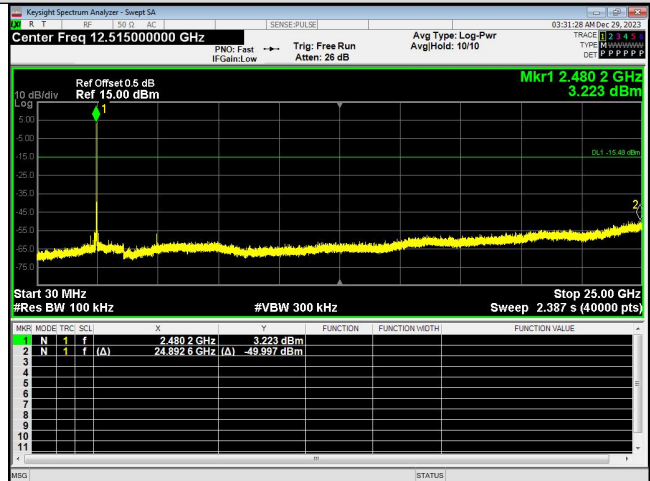
Spurious Emissions
LE_Channel 19



In-Band Reference Level
LE_Channel 39



Out Of Band Emission
LE_Channel 39



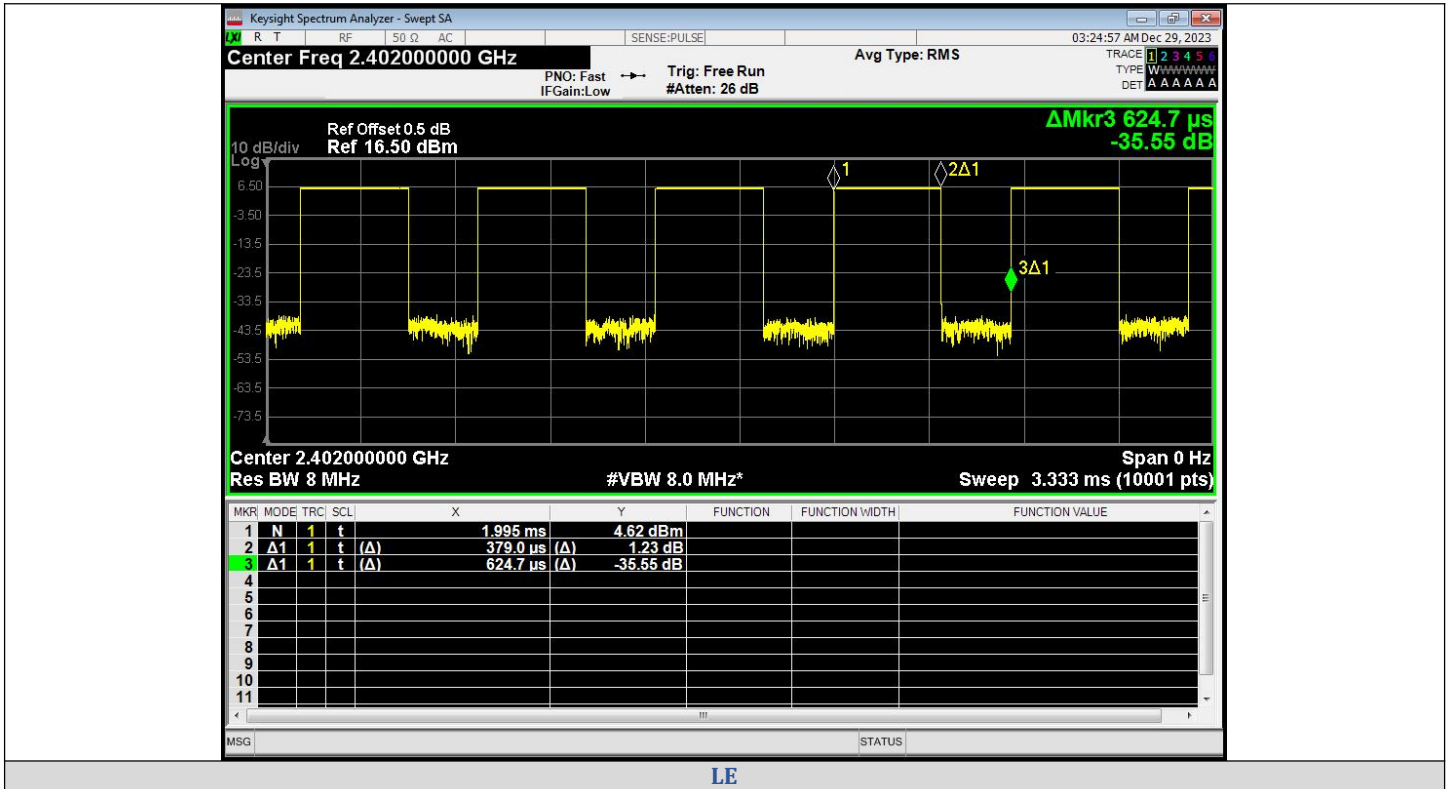
Spurious Emission
LE_Channel 39

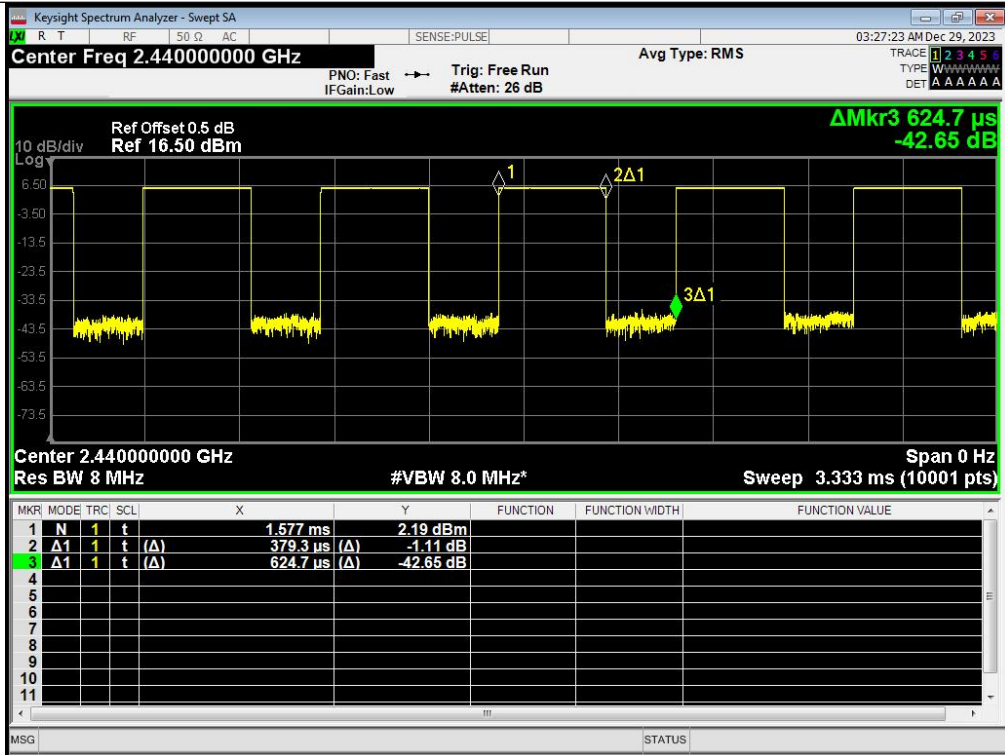


Duty Cycle
Test Result

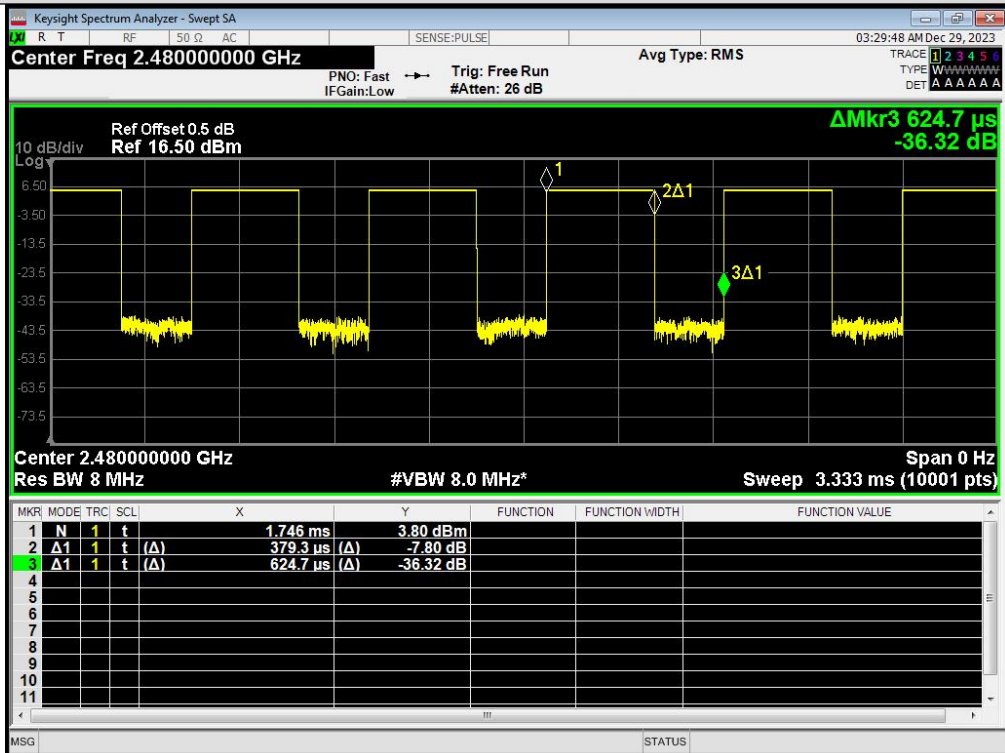
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
LE	0	0.379	0.625	60.67	0.6067	2.1703
	19	0.379	0.625	60.73	0.6073	2.166
	39	0.379	0.625	60.73	0.6073	2.166

Test Graphs





LE



LE



Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
LE	0	-9.687	8	PASS
LE	19	-10.016	8	PASS
LE	39	-10.311	8	PASS

Test Graphs

