

Appendix B

Report No.:	CISRR24041811402
FCC ID:	2BFYP-HBL100
Product Name:	Karaoke Machine
Model No.:	HBL100
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

Conducted Peak Output Power

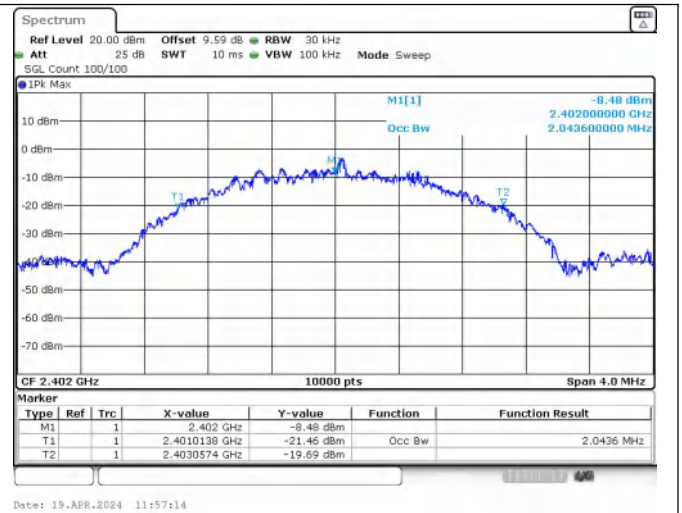
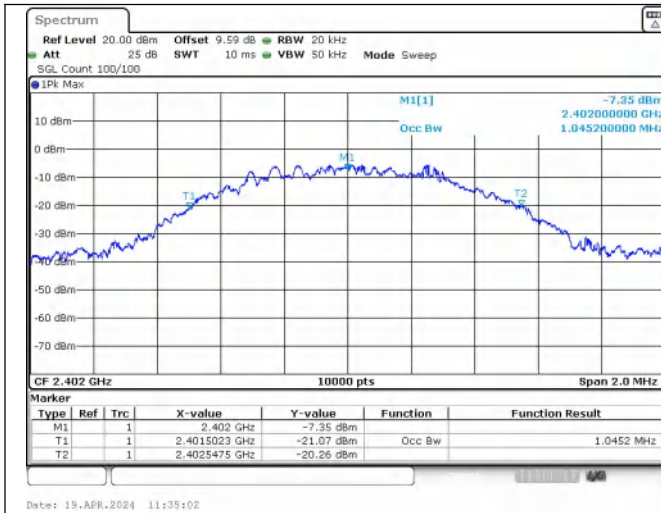
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
LE	0	1.435	1.39	30	PASS
	19	0.848	1.22	30	PASS
	39	0.927	1.24	30	PASS
2LE	0	1.510	1.42	30	PASS
	19	1.002	1.26	30	PASS
	39	1.050	1.27	30	PASS

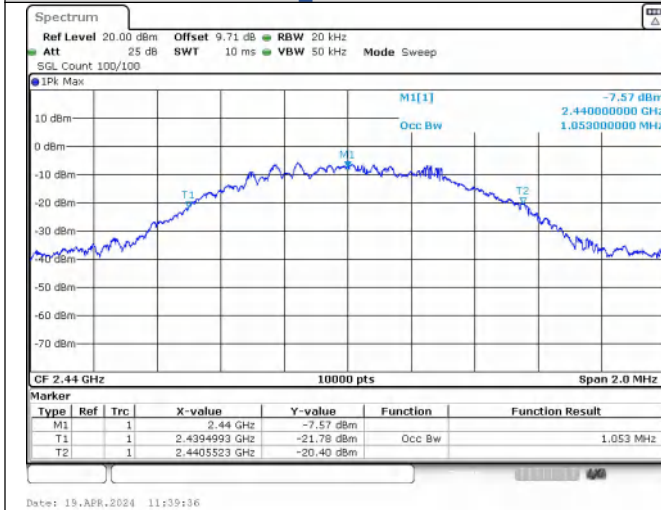
99% Bandwidth Test Result

Mode	Channel	99% BW (MHz)
LE	0	1.0450
LE	19	1.0530
LE	39	1.0480
2LE	0	2.0440
2LE	19	2.0600
2LE	39	2.0520

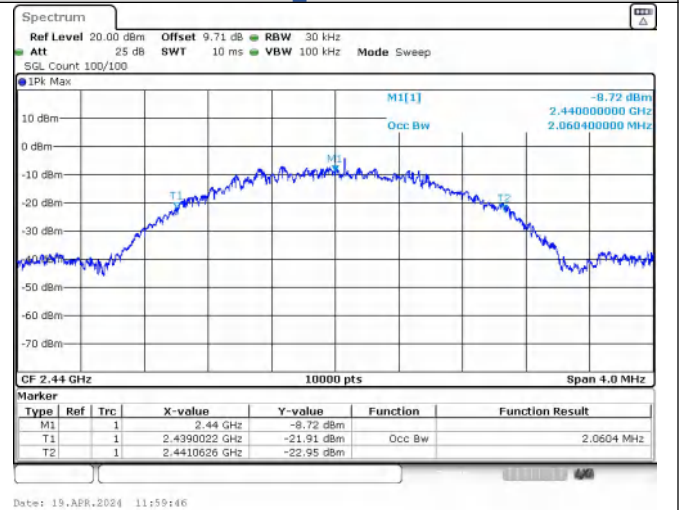
Test Graphs



LE_Channel 0

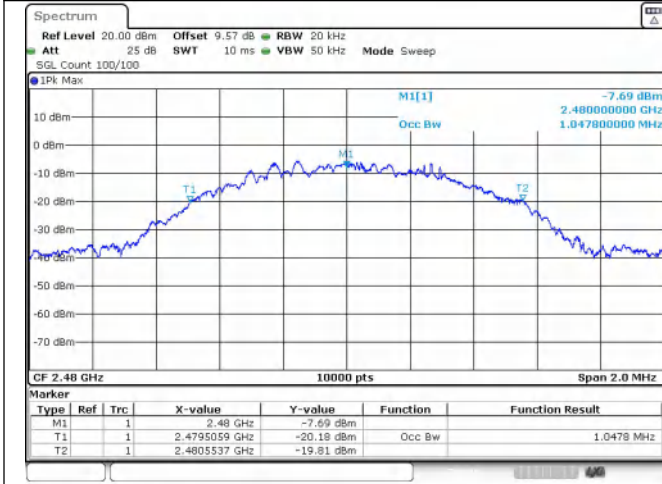


2LE_Channel 0

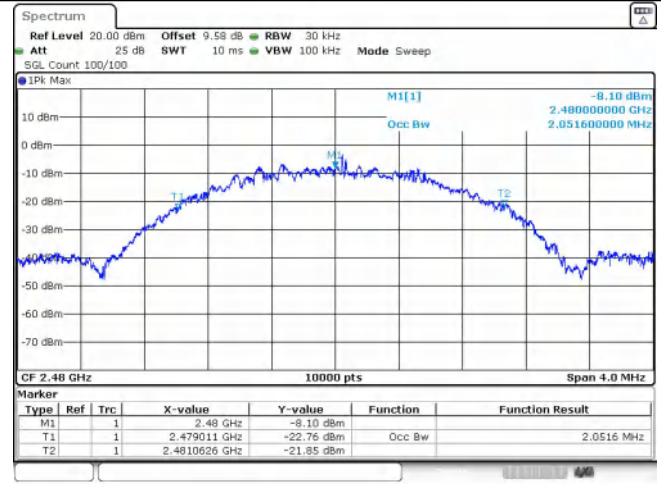


LE_Channel 19

2LE_Channel 19



LE_Channel 39



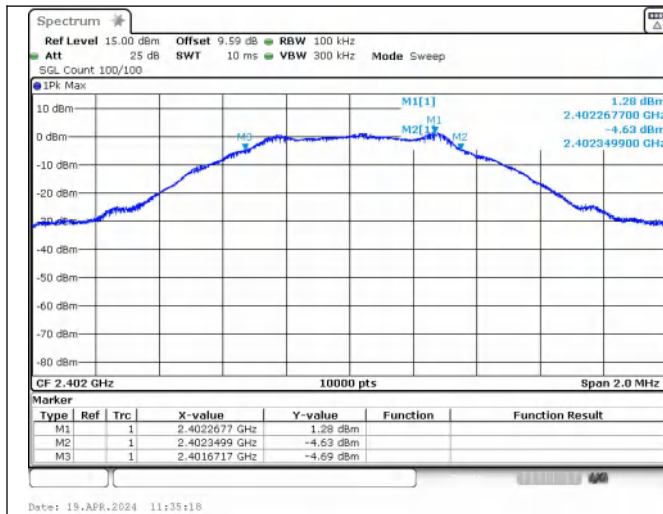
2LE_Channel 39

6dB Bandwidth

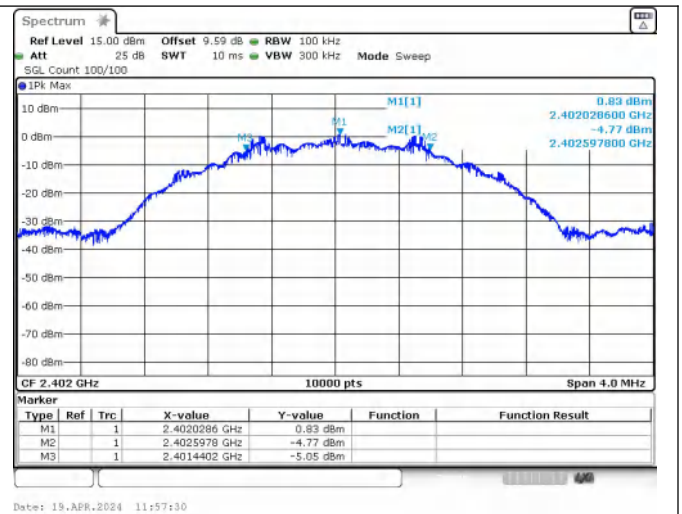
Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
LE	0	2402	0.6800	0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6700		PASS
2LE	0	2402	1.160		PASS
	19	2440	1.160		PASS
	39	2480	1.140		PASS

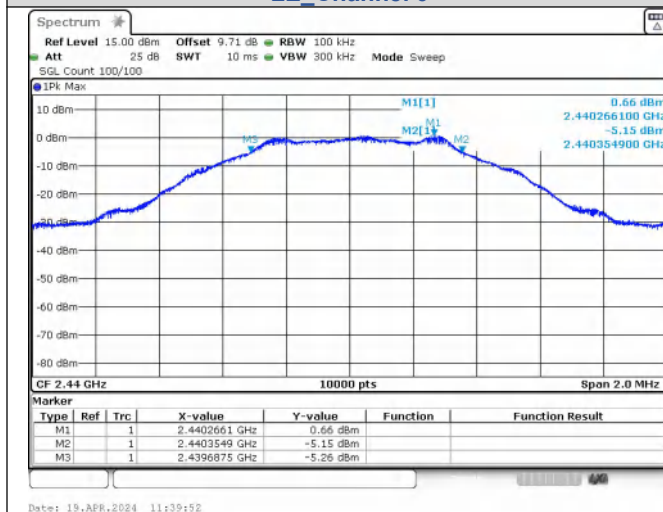
Test Graphs



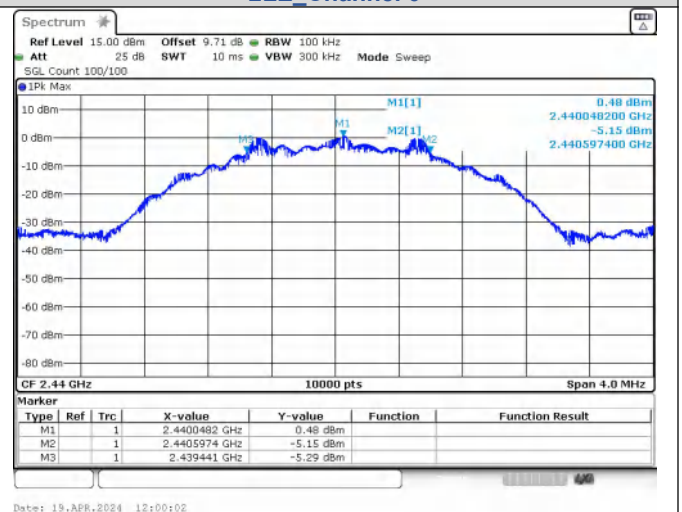
LE_Channel 0



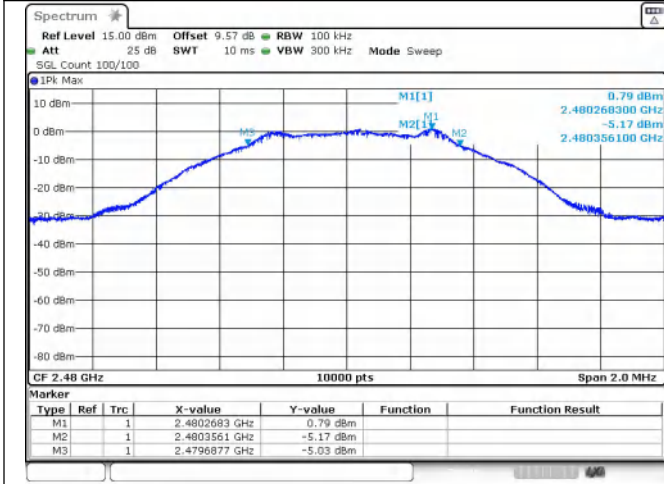
2LE_Channel 0



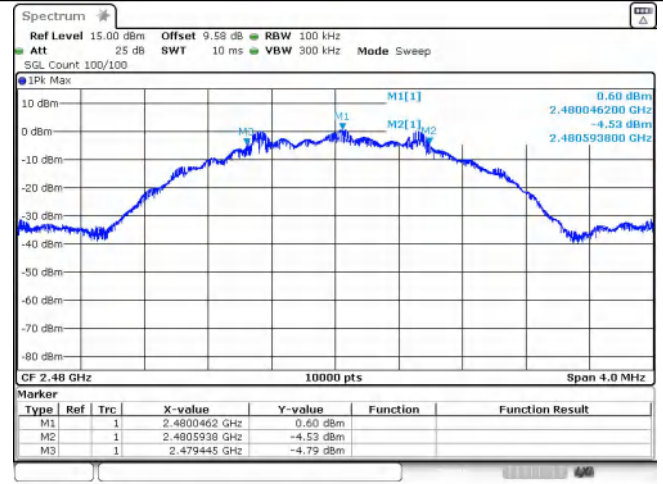
LE_Channel 19



2LE_Channel 19



LE_Channel 39



2LE_Channel 39

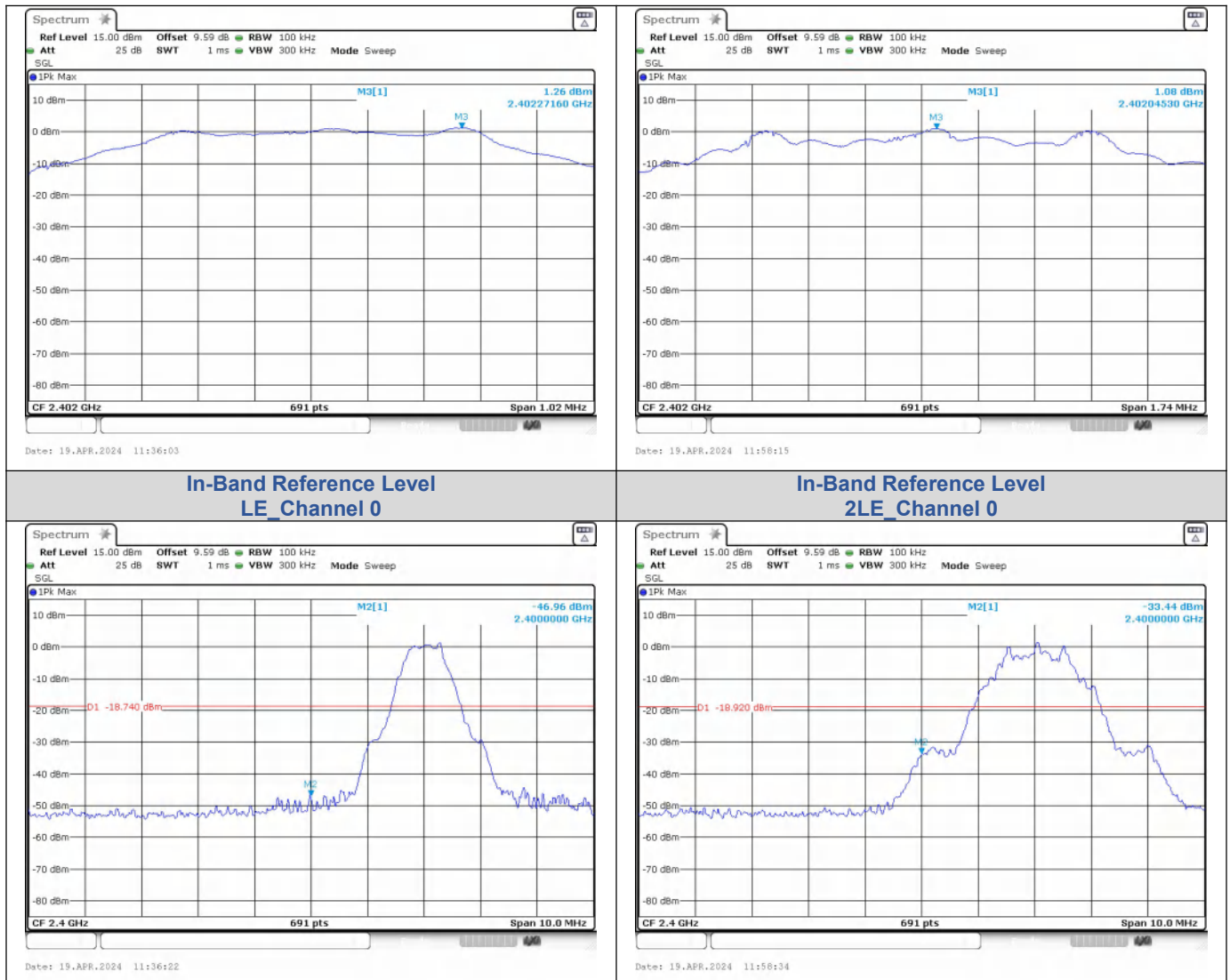
Date: 19.APR.2024 11:46:27

Date: 19.APR.2024 12:02:20

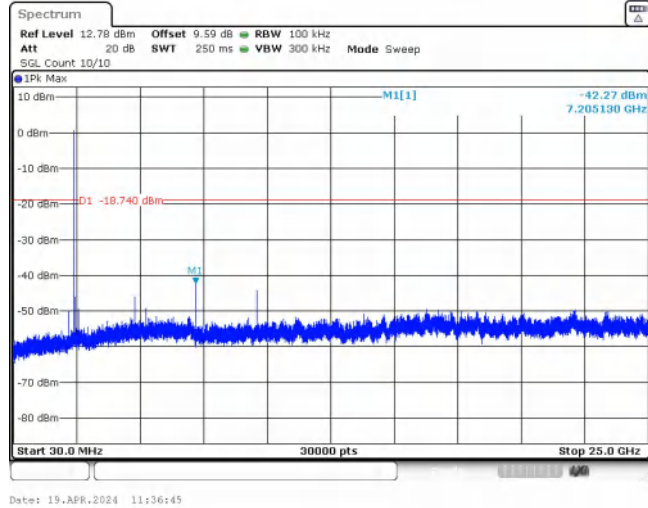
Conducted Out Of Band Emission Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
LE	0	2400.00	-46.959	-18.74	-28.219	PASS
		7205.13	-42.271	-18.74	-23.531	PASS
	39	9760.39	-41.347	-19.33	-22.017	PASS
		2483.50	-53.349	-19.23	-34.119	PASS
		9920.20	-40.702	-19.23	-21.472	PASS
2LE	0	2400.00	-33.440	-18.92	-14.520	PASS
		7204.30	-39.446	-18.92	-20.526	PASS
	39	9760.39	-41.590	-19.47	-22.120	PASS
		2483.50	-53.024	-19.38	-33.644	PASS
		9920.20	-40.697	-19.38	-21.317	PASS

Test Graphs

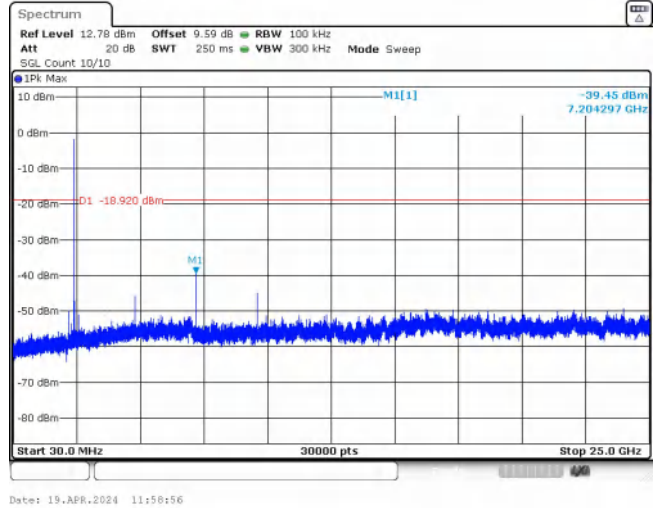


Out Of Band Emission LE_Channel 0



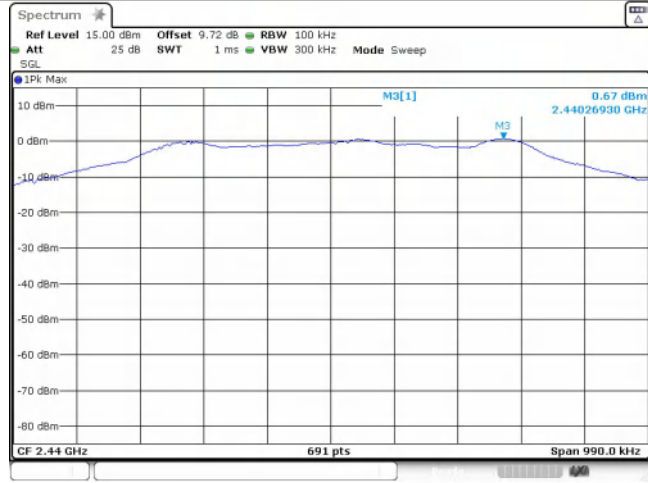
Date: 19.APR.2024 11:36:45

Out Of Band Emission 2LE_Channel 0



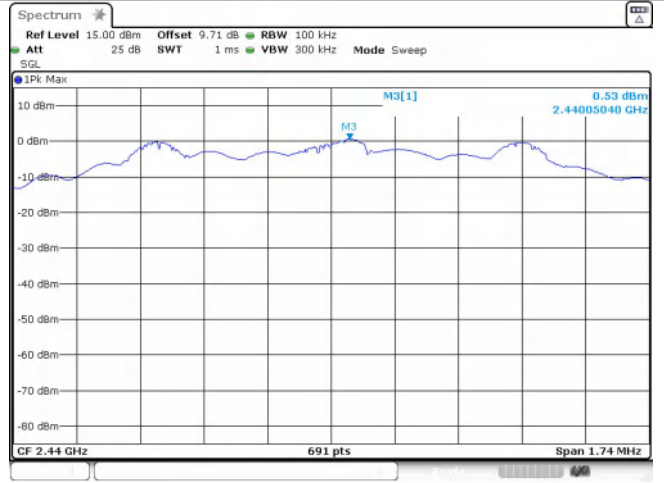
Date: 19.APR.2024 11:58:56

Spurious Emission LE_Channel 0



Date: 19.APR.2024 11:40:37

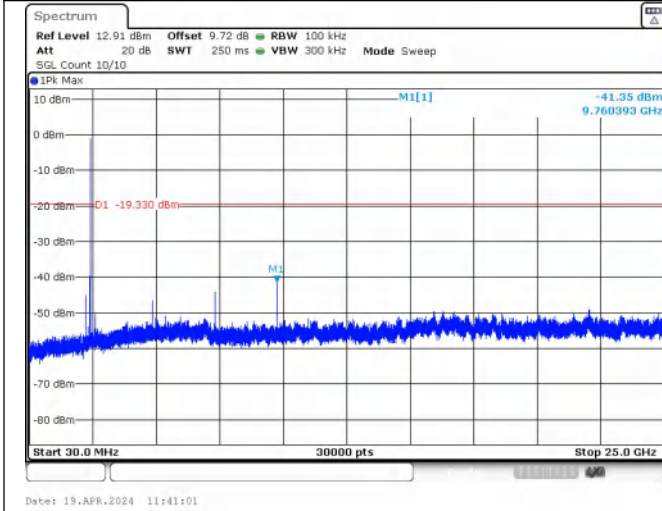
Spurious Emission 2LE_Channel 0



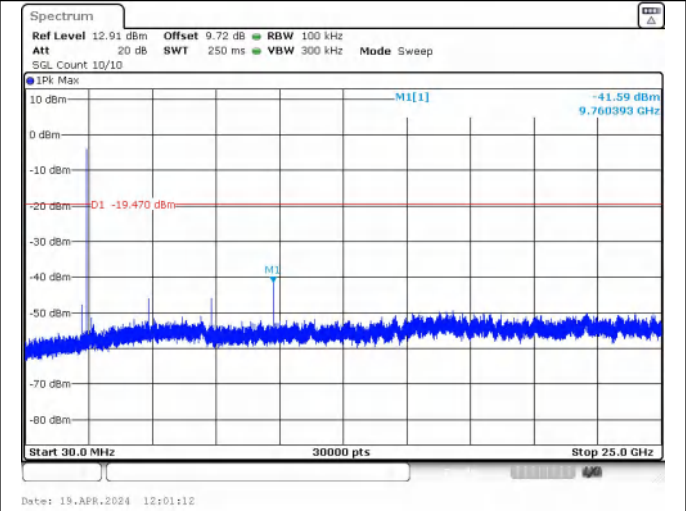
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In-Band Reference Level LE_Channel 19

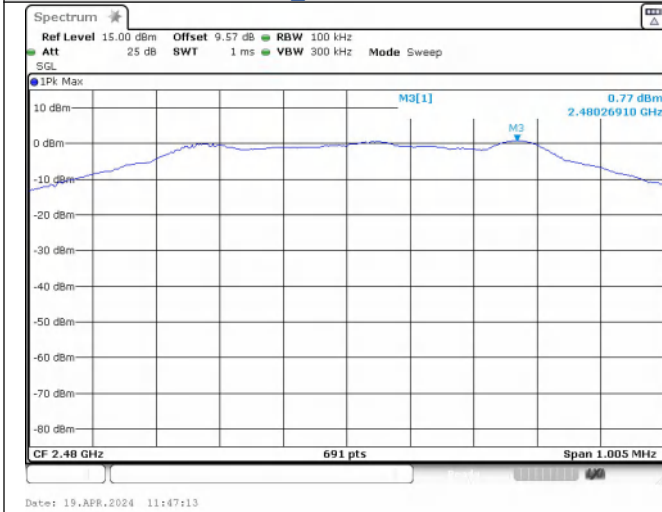
In-Band Reference Level 2LE_Channel 19



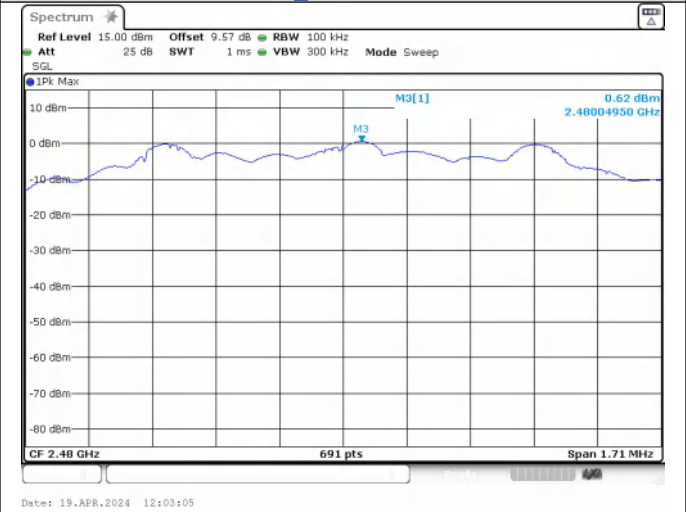
**Spurious Emissions
LE_Channel 19**



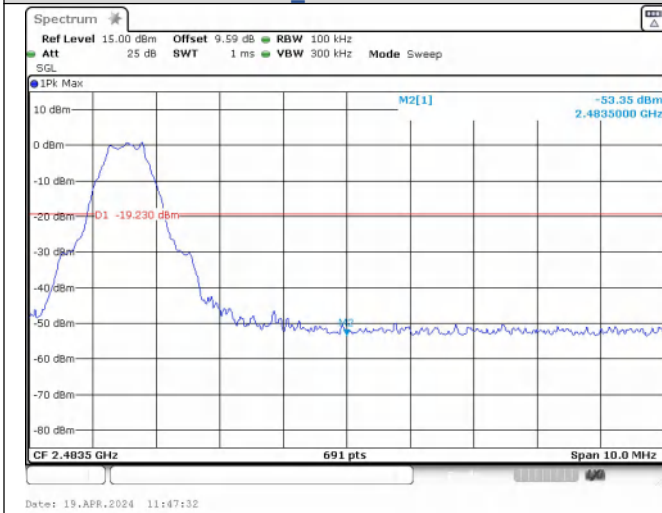
**Spurious Emissions
2LE_Channel 19**



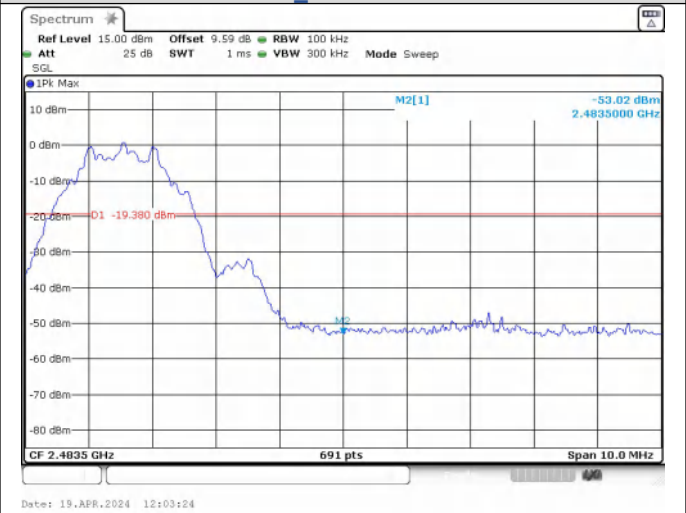
**In-Band Reference Level
LE_Channel 39**



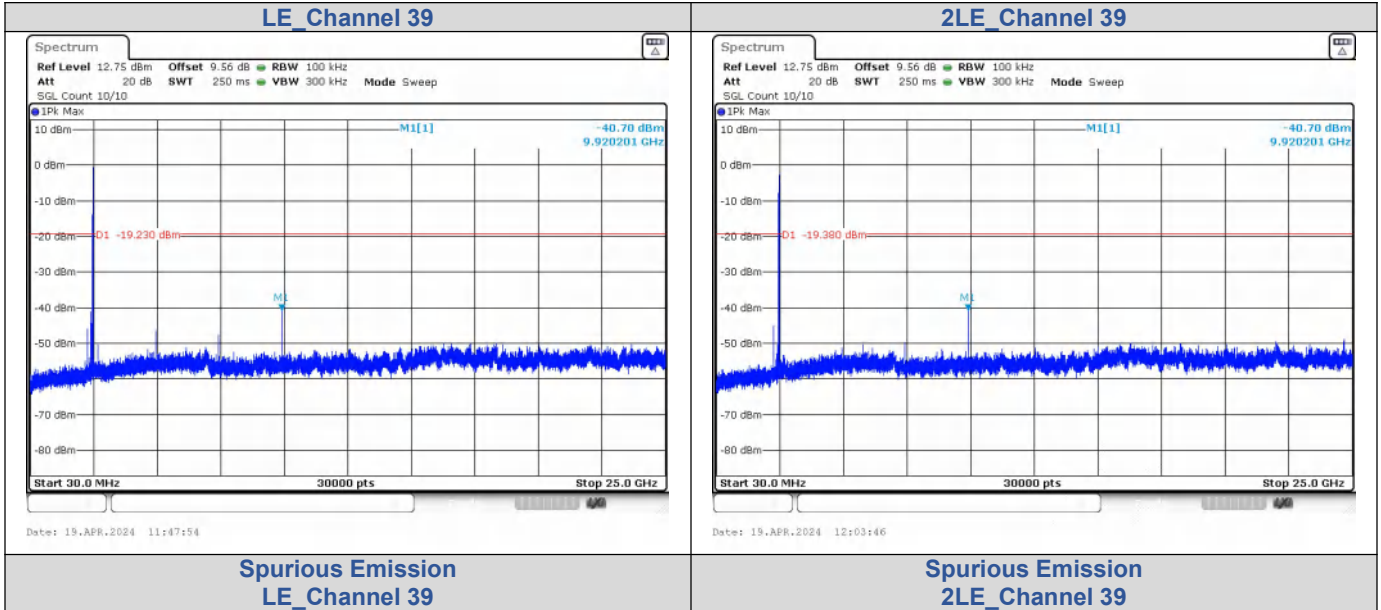
**In-Band Reference Level
2LE_Channel 39**



Out Of Band Emission



Out Of Band Emission

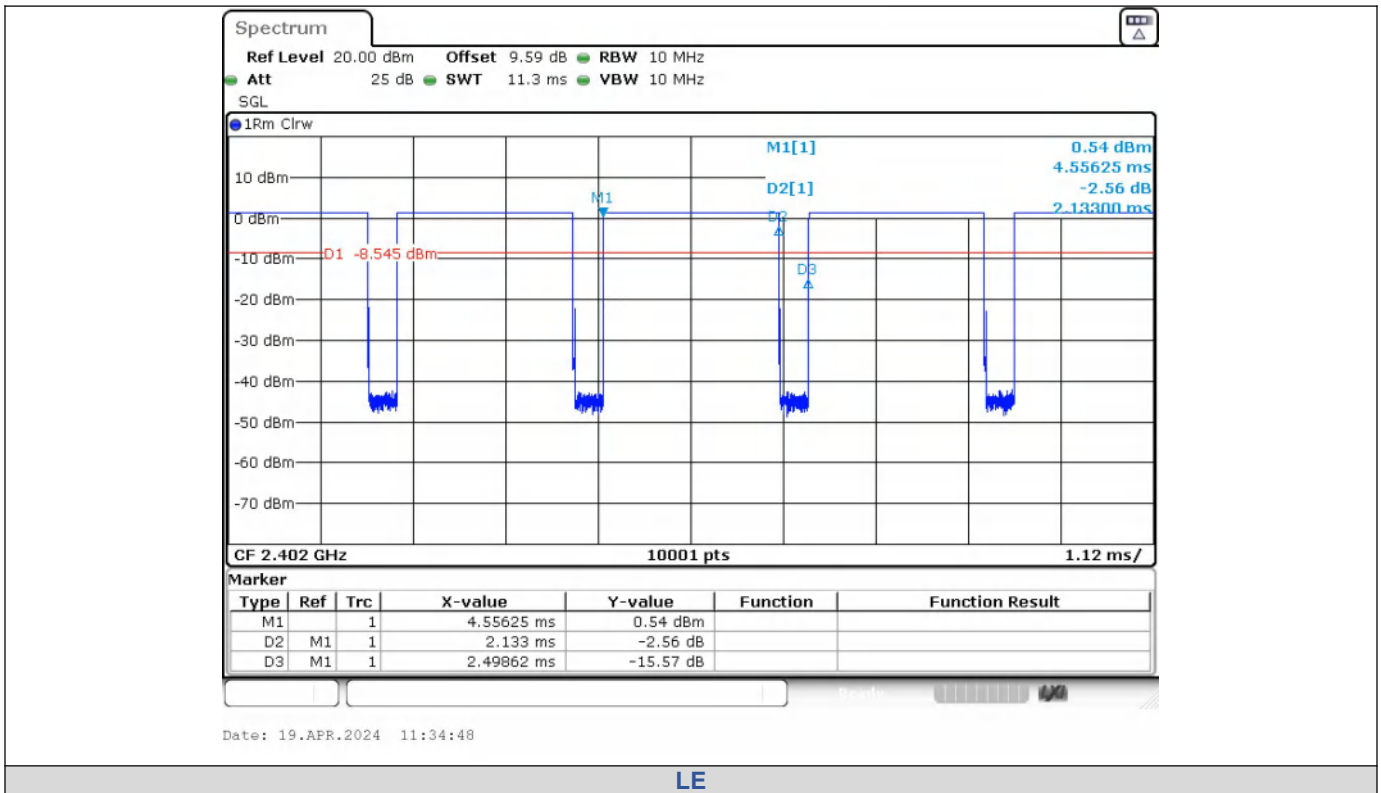


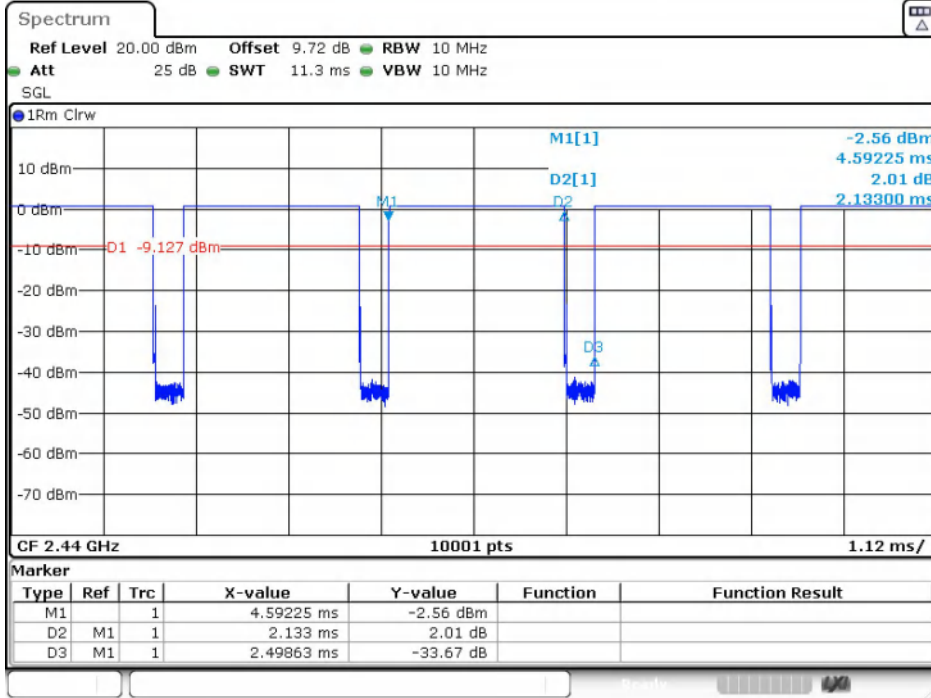
Duty Cycle

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
LE	0	2.133	2.499	85.37	0.8537	0.6869	0.47
	19	2.133	2.499	85.37	0.8537	0.6869	0.47
	39	2.133	2.499	85.37	0.8537	0.6869	0.47
2LE	0	1.081	2.499	43.27	0.4327	3.6381	0.93
	19	1.081	2.499	43.27	0.4327	3.6381	0.93
	39	1.081	2.499	43.27	0.4327	3.6381	0.93

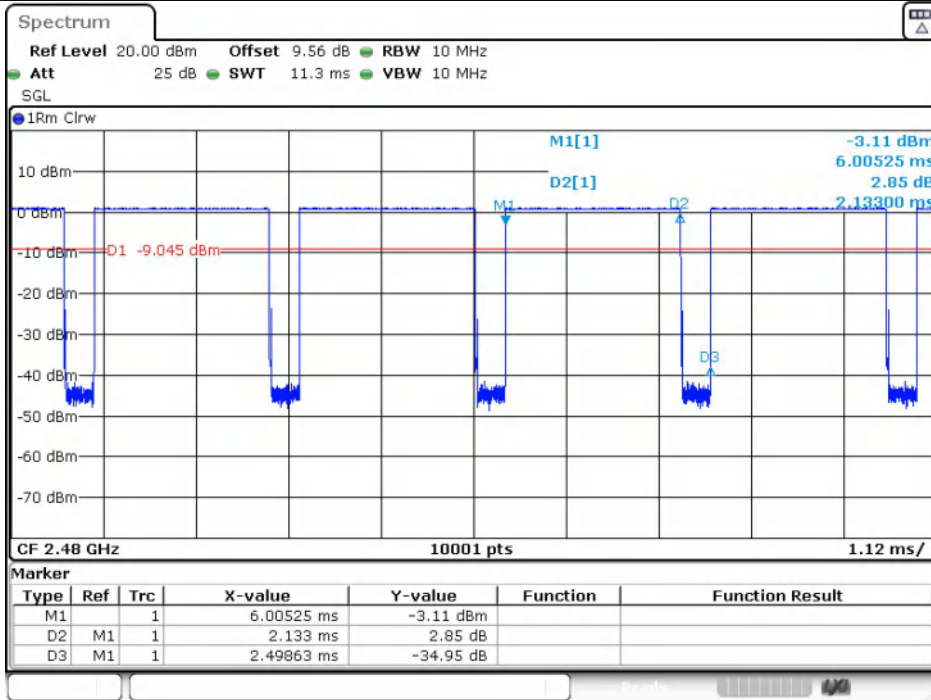
Test Graphs





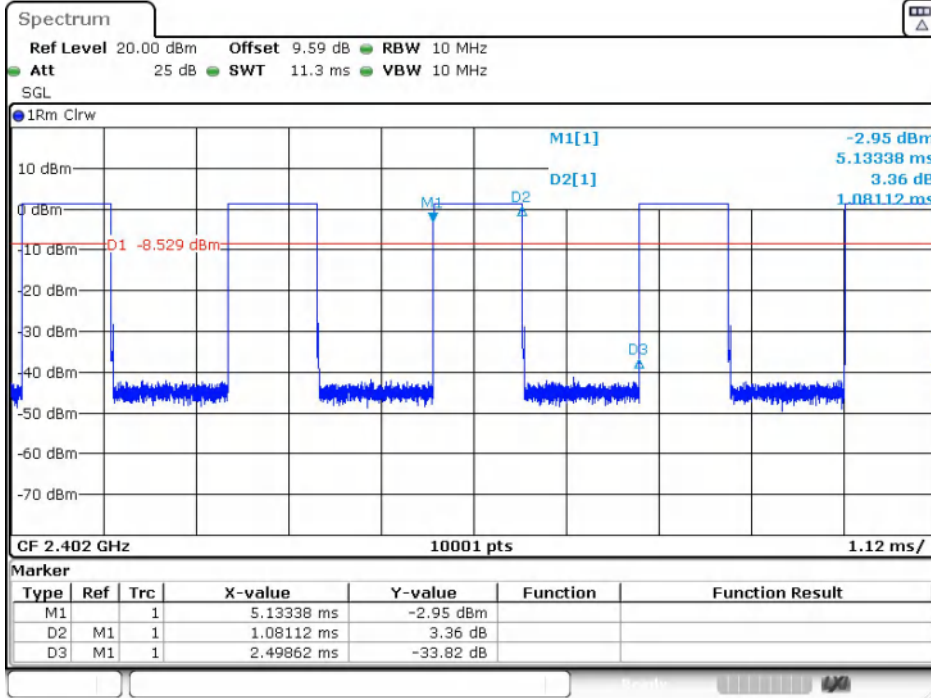
Date: 19.APR.2024 11:39:21

LE



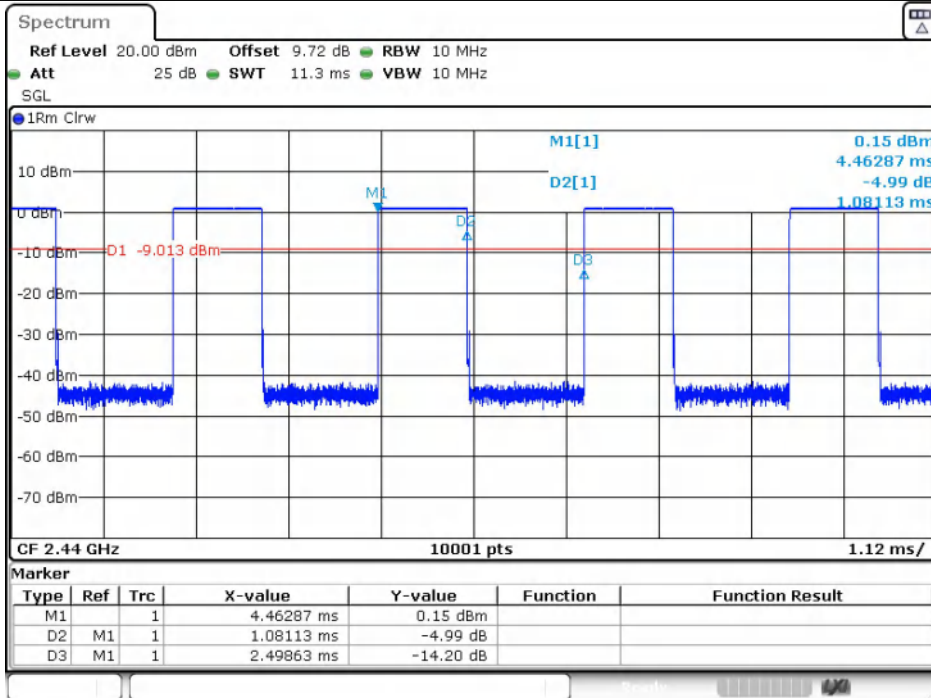
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LE



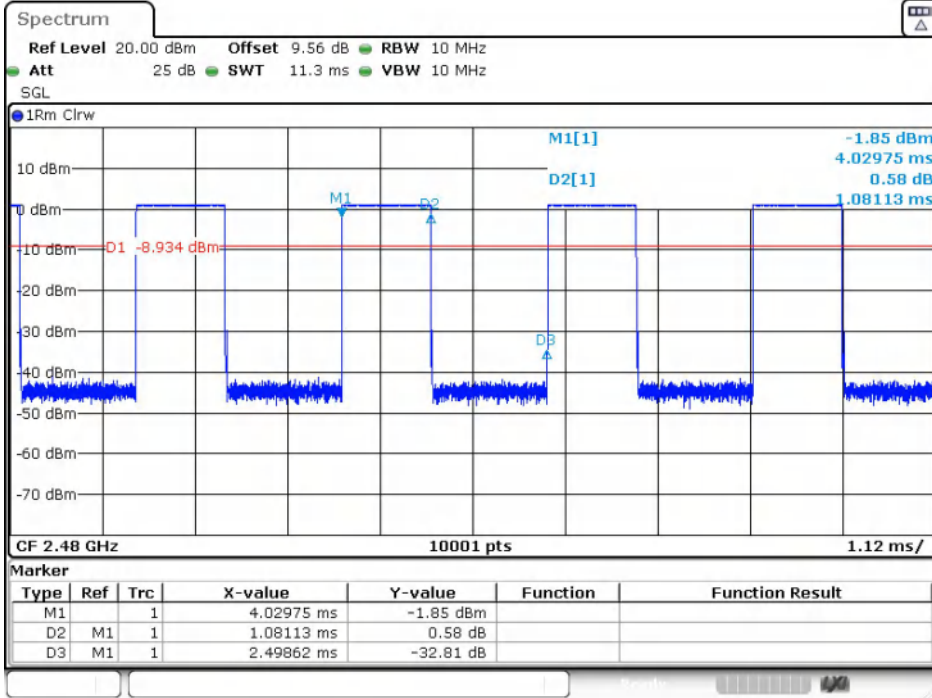
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2LE



Date: 19.APR.2024 11:59:32

2LE



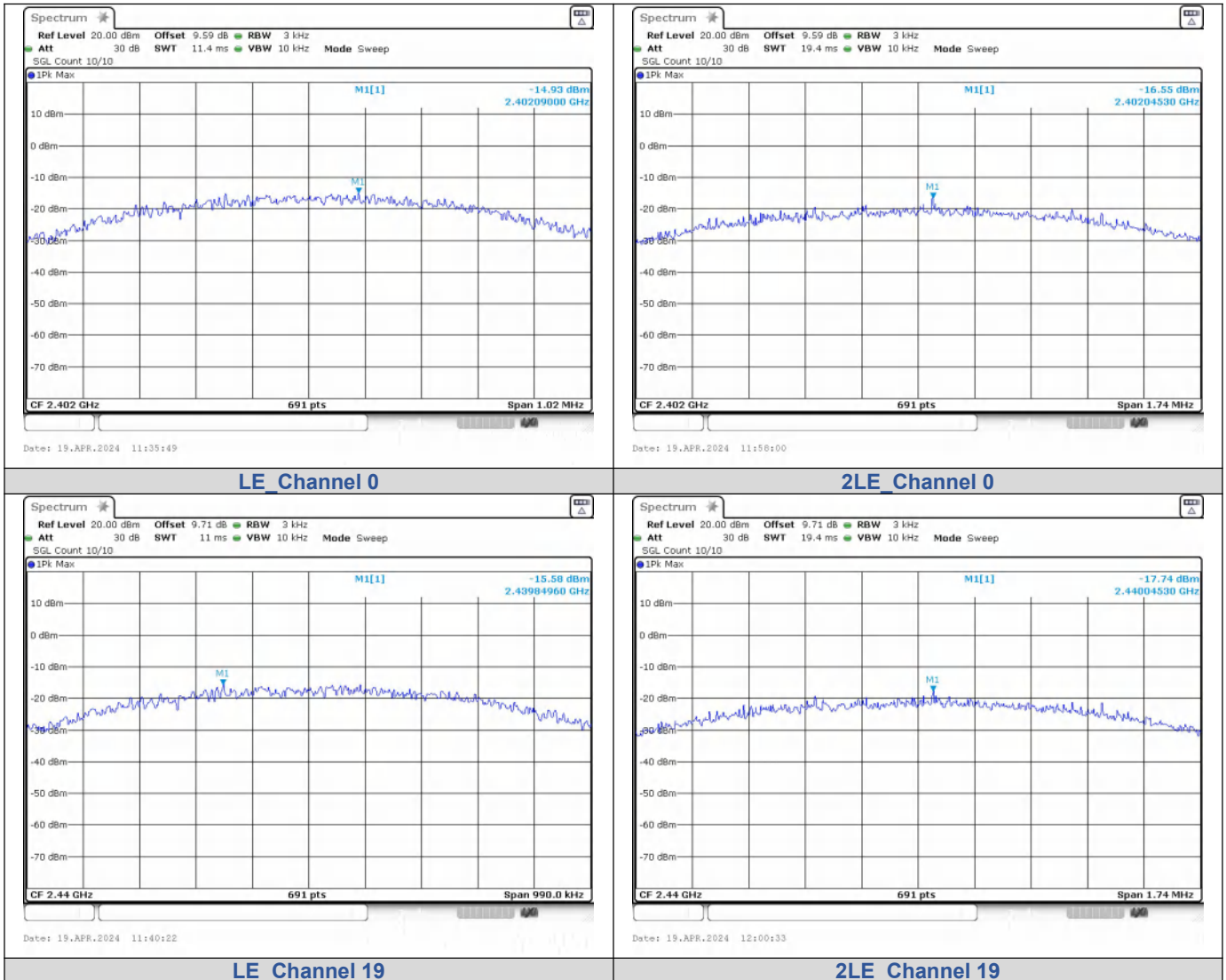
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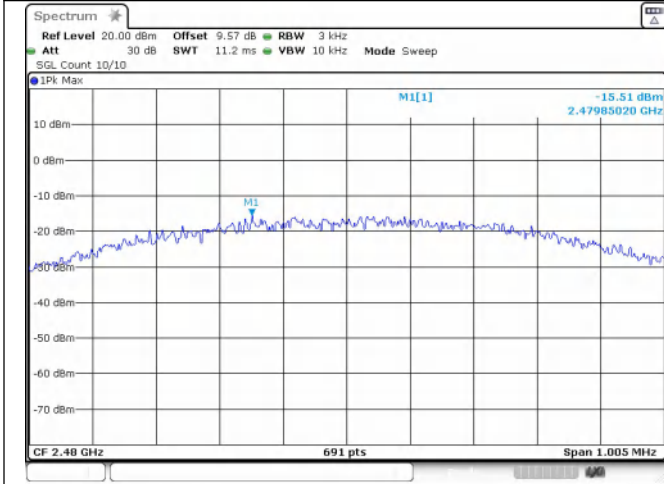
Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
LE	0	-14.935	8	PASS
LE	19	-15.576	8	PASS
LE	39	-15.515	8	PASS
2LE	0	-16.553	8	PASS
2LE	19	-17.742	8	PASS
2LE	39	-18.417	8	PASS

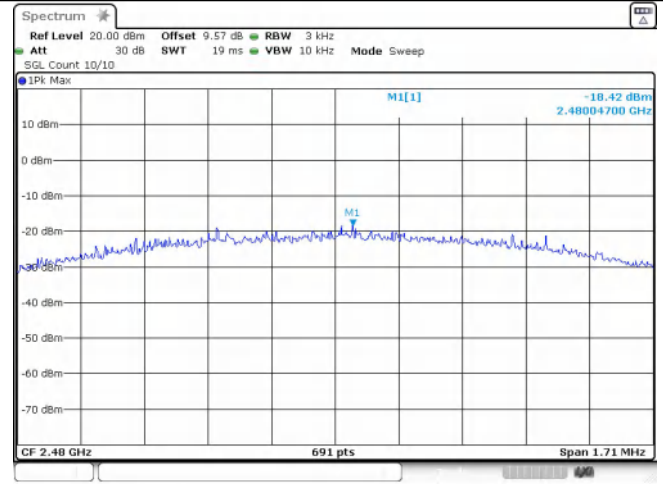
Test Graphs





Date: 19.APR.2024 11:46:58

LE_Channel 39



Date: 19.APR.2024 12:02:51

2LE_Channel 39