Appendix A

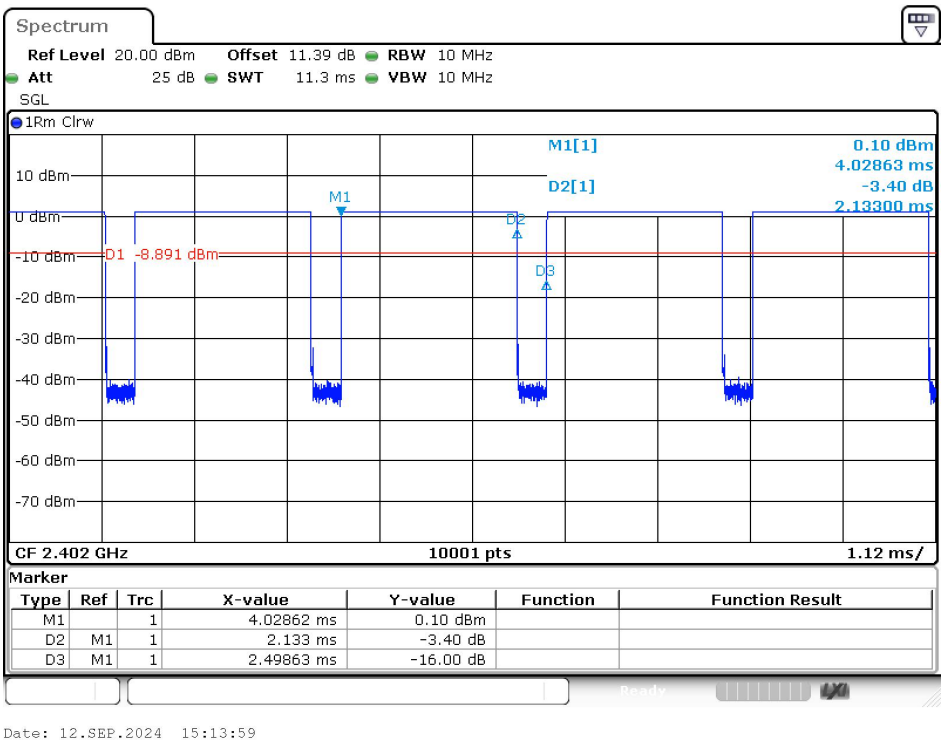
Report No.:	CISRR240911099
FCC ID:	2BDZJ-BQ70
Product Name:	wireless headphone
Model No.:	BQ70
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

1) Duty Cycle

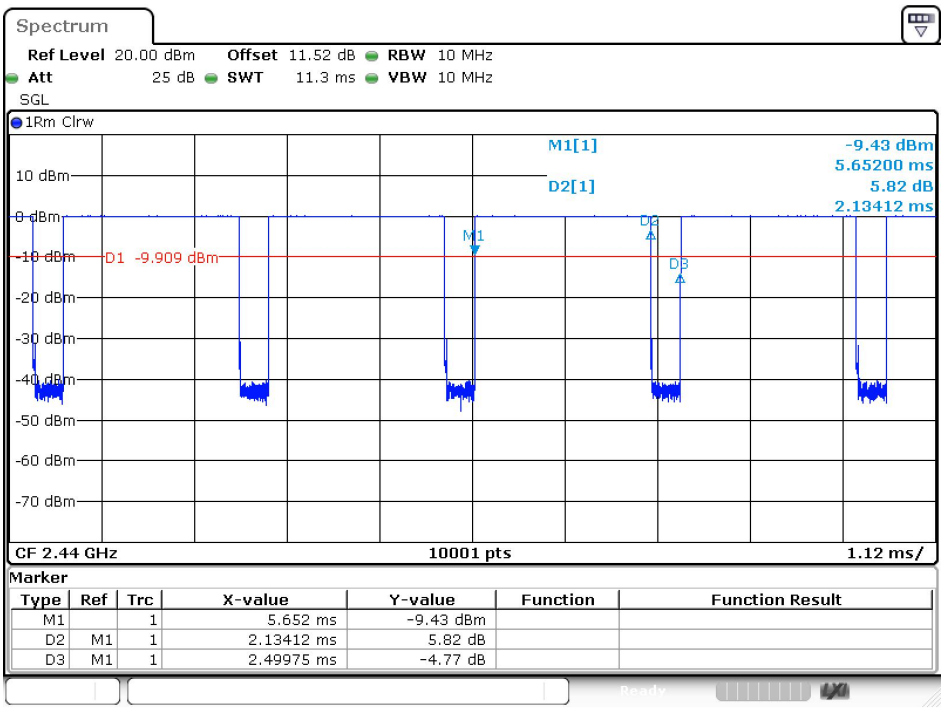
Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.133	2.499	85.37	0.8537	0.6869	0.47
	19	2.134	2.500	85.37	0.8537	0.6869	0.47
	39	2.133	2.499	85.37	0.8537	0.6869	0.47

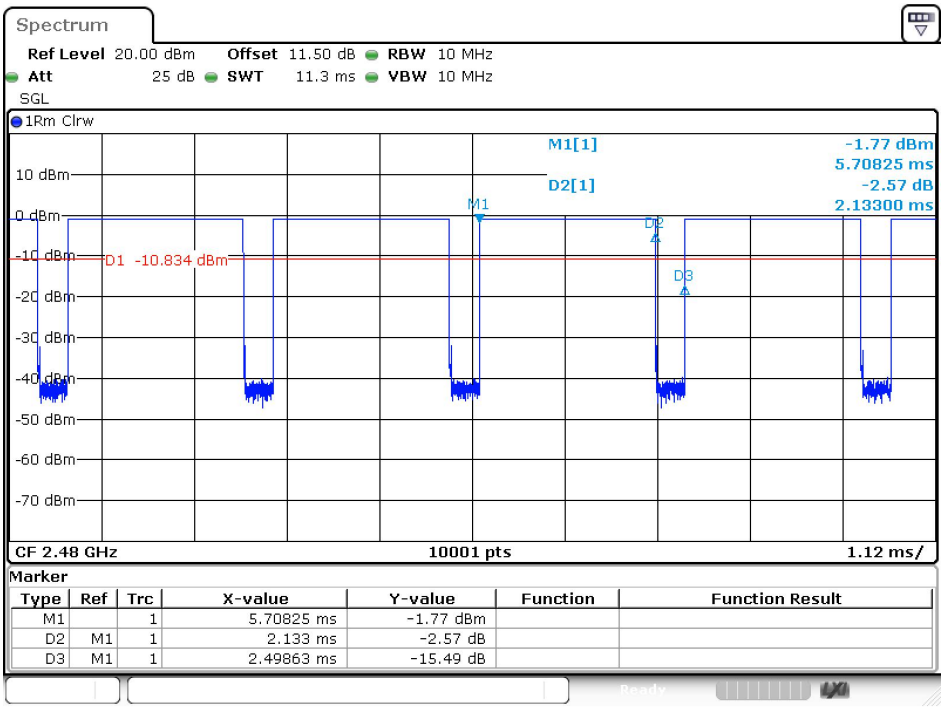
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



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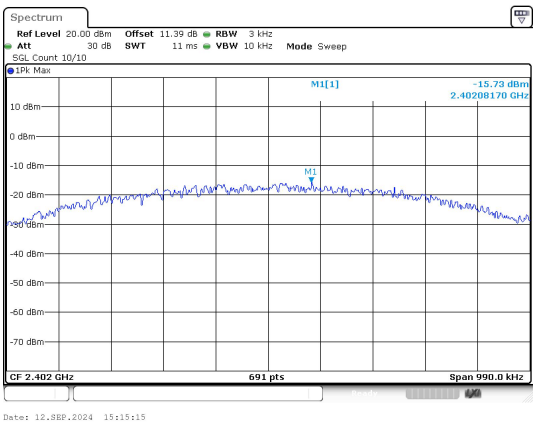
2) Power Spectral Density

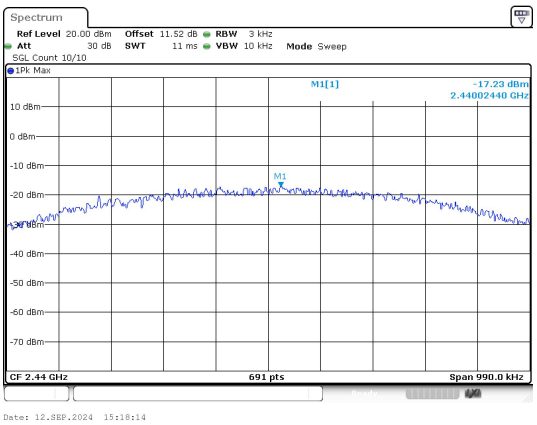
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-15.73	≤8	PASS
BLE 1M	19	-17.23	≤8	PASS
BLE 1M	39	-17.91	≤8	PASS

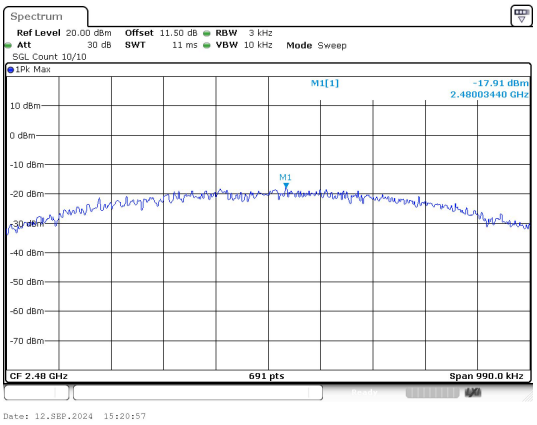
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



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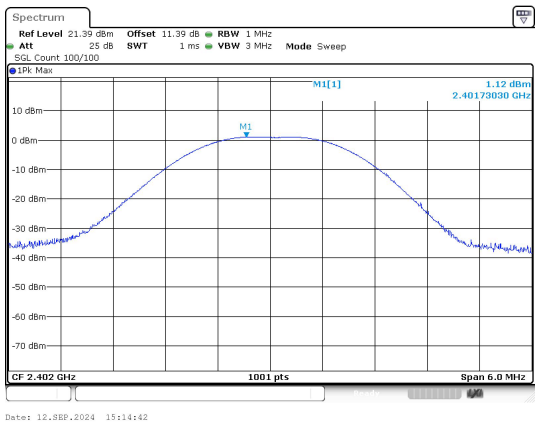
3) Conducted Peak Output Power

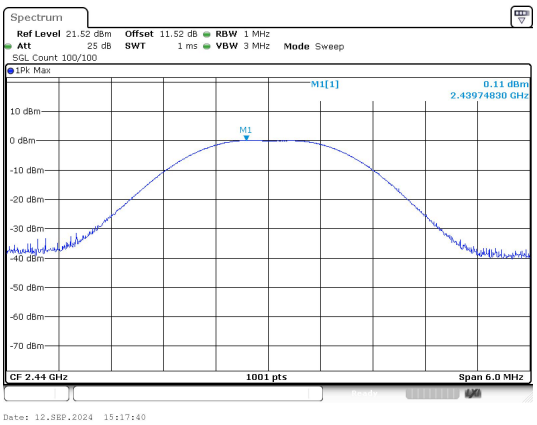
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	1.12	1.29	≤30	PASS
	19	0.11	1.03	≤30	PASS
	39	-0.84	0.82	≤30	PASS

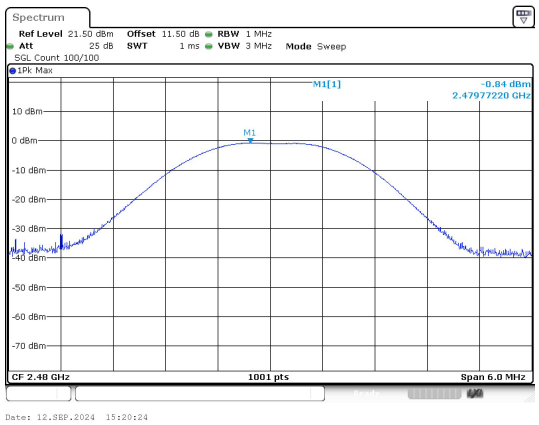
Test Graphs



Peak Output Power
BLE 1M_Channel 0



Peak Output Power
BLE 1M_Channel 19



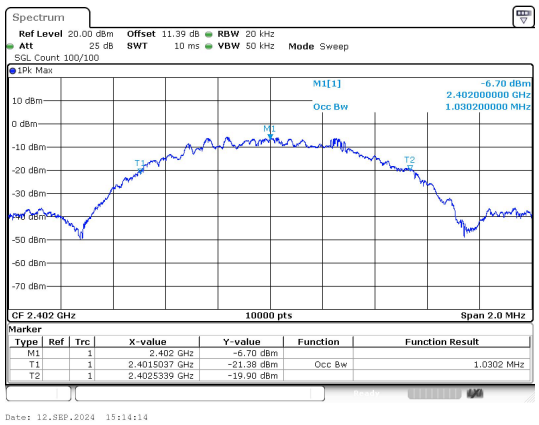
Peak Output Power
BLE 1M_Channel 39

4) 99% Bandwidth

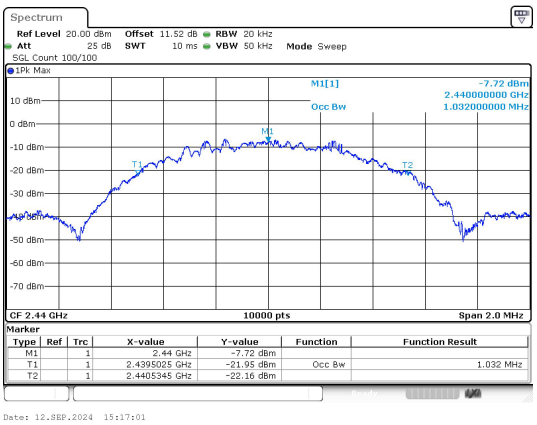
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0302
BLE 1M	19	2440	1.0320
BLE 1M	39	2480	1.0320

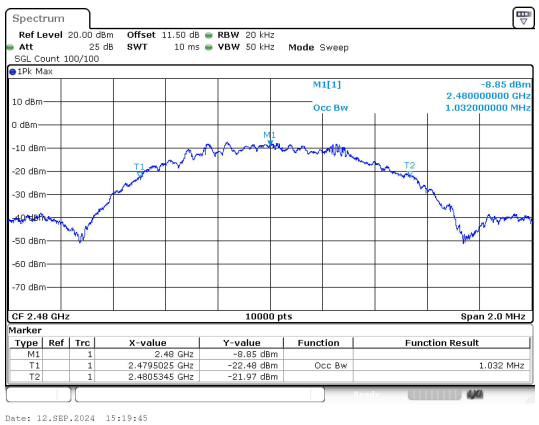
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



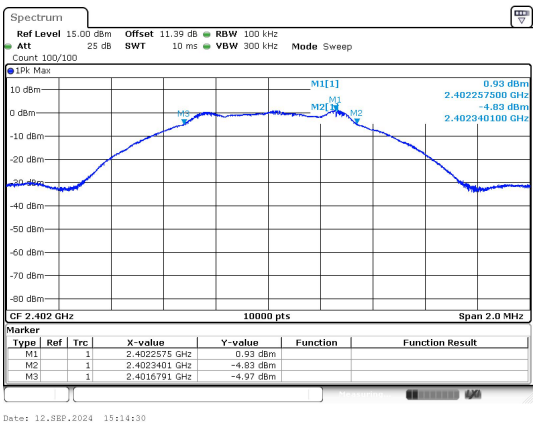
BLE 1M_Channel 39

5) 6dB Bandwidth

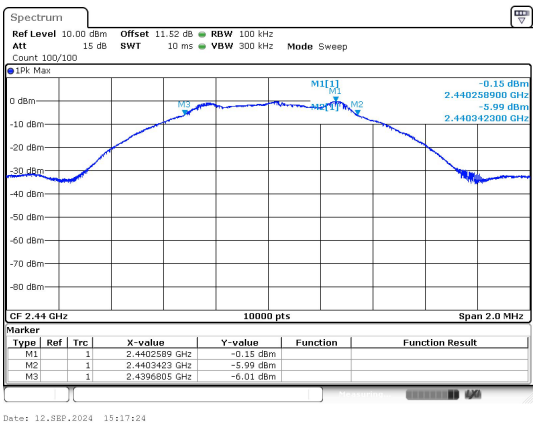
Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS

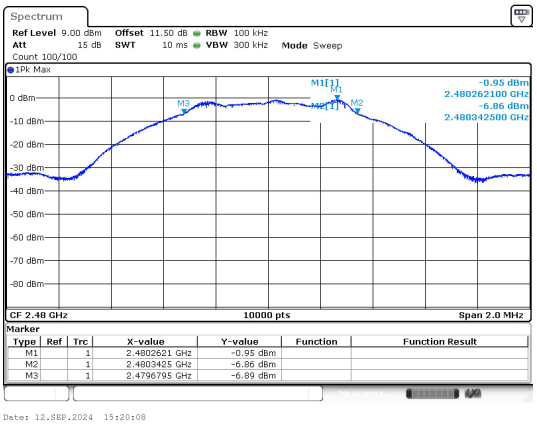
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



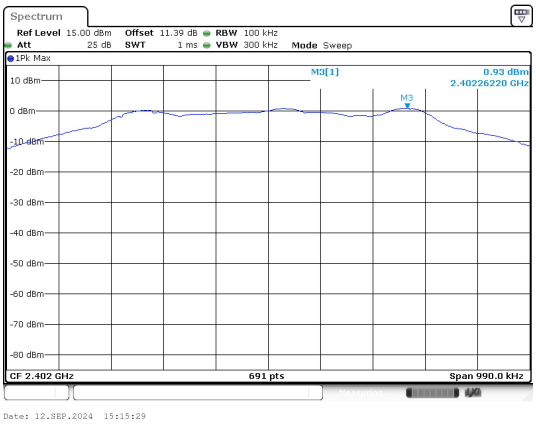
BLE 1M_Channel 39

6) Conducted Out Of Band Emission

Test Result

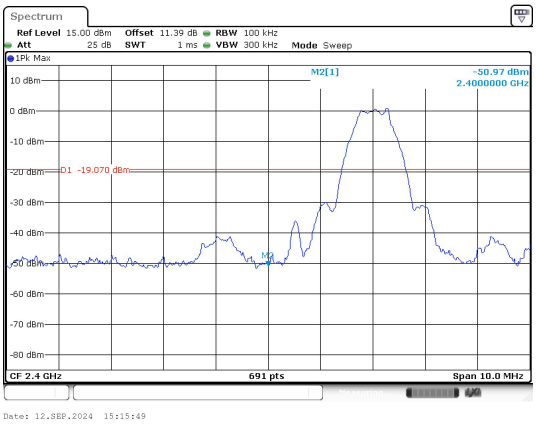
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2399.00	-41.709	-19.07	-22.639	PASS
		2400.00	-50.973	-19.07	-31.903	PASS
		7205.10	-40.520	-19.07	-21.450	PASS
	19	7319.16	-39.213	-20.1	-19.113	PASS
	39	2483.50	-48.083	-21.03	-27.053	PASS
		7440.68	-43.497	-21.03	-22.467	PASS

Test Graphs



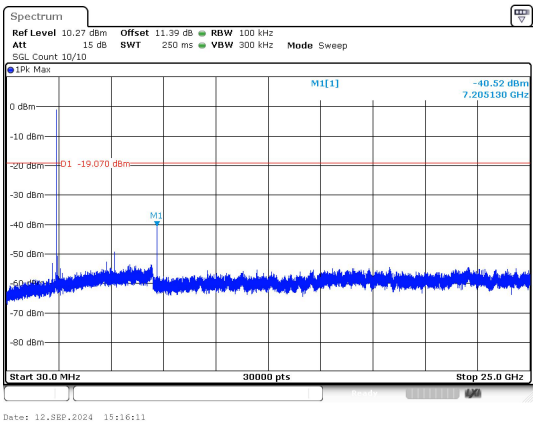
In-Band Reference Level

BLE 1M_Channel 0



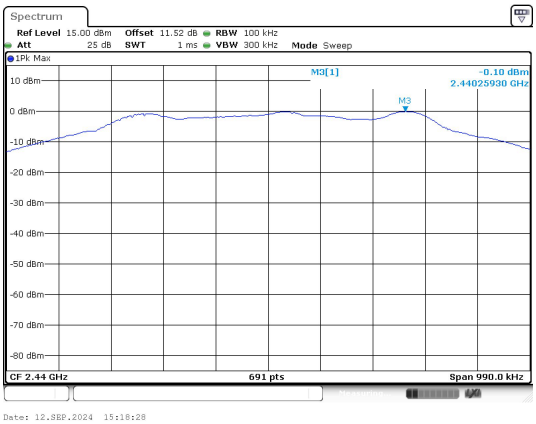
Out Of Band Emission

BLE 1M_Channel 0



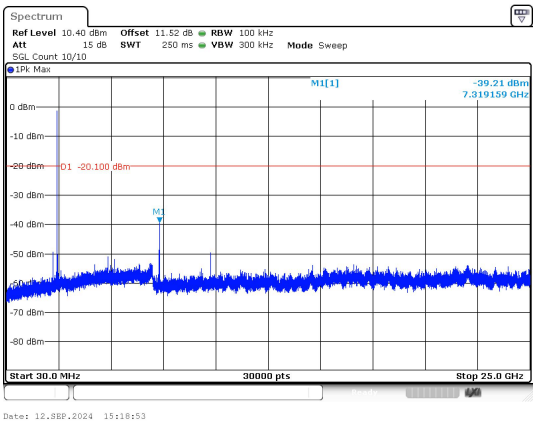
30.0 MHz - 25000.0 MHz

BLE 1M_Channel 0



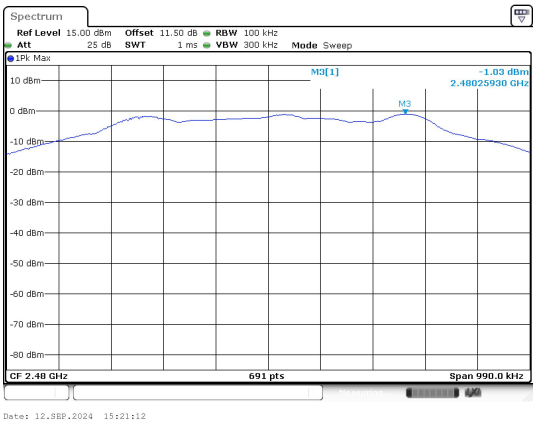
In-Band Reference Level

BLE 1M_Channel 19



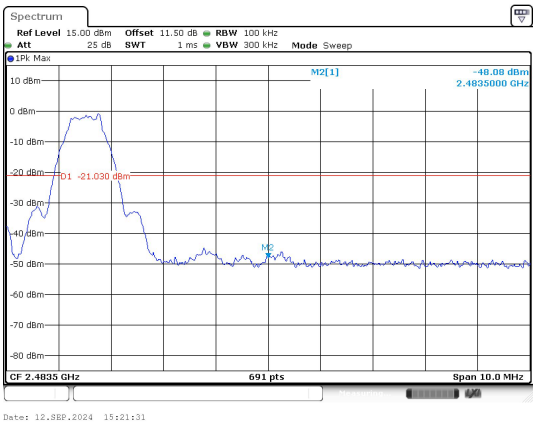
30.0 MHz - 25000.0 MHz

BLE 1M_Channel 19



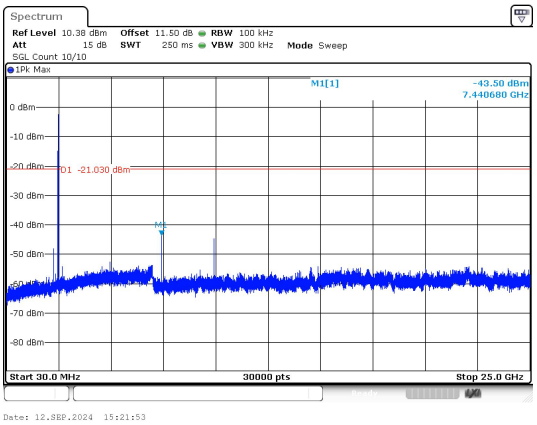
In-Band Reference Level

BLE 1M_Channel 39



Out Of Band Emission

BLE 1M_Channel 39



30.0 MHz - 25000.0 MHz

BLE 1M_Channel 39