

Appendix Report

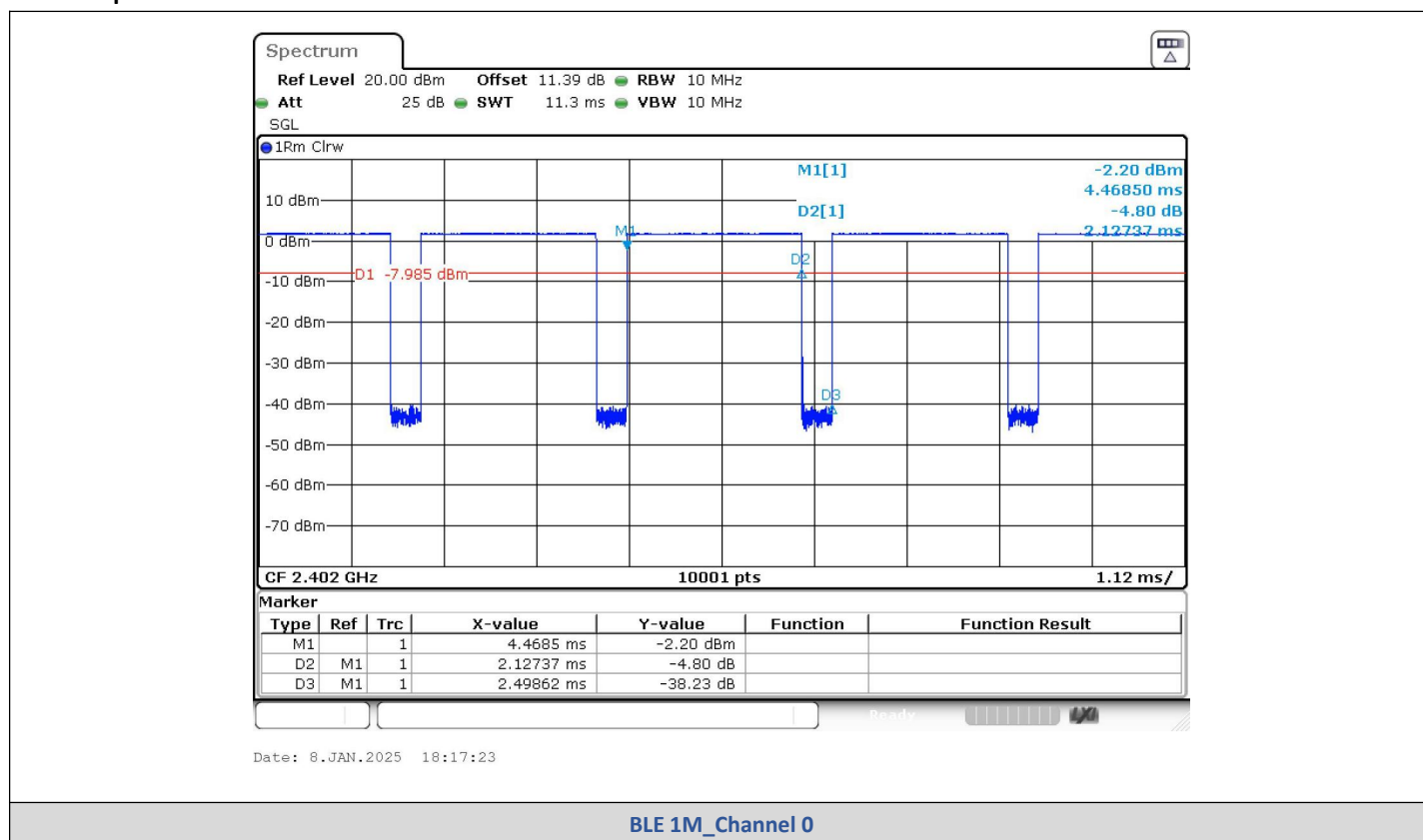
Report No.:	CISRR250107024
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

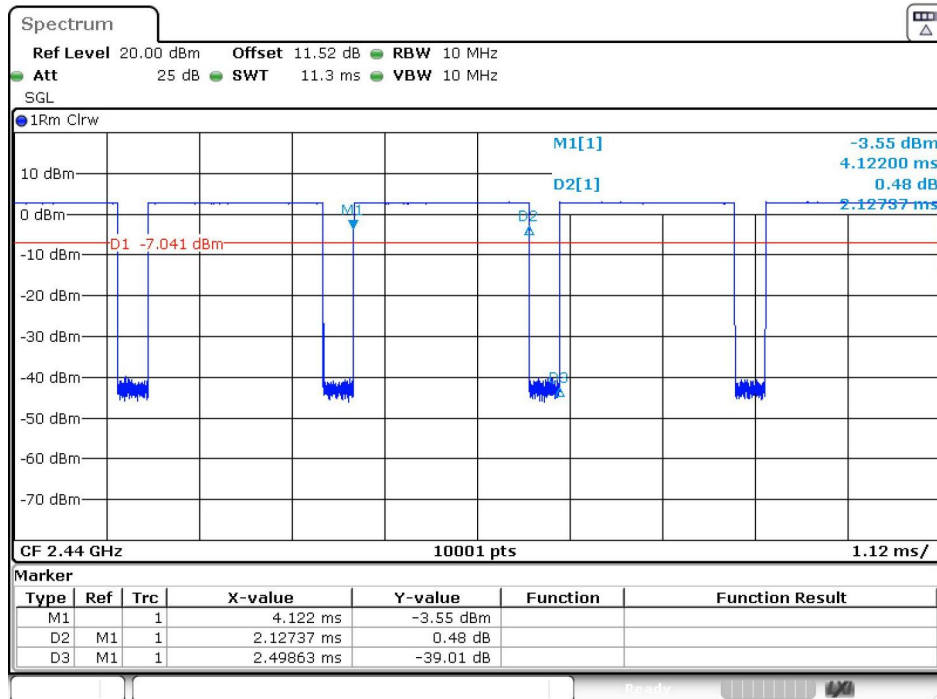
1) Duty Cycle

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.127	2.499	85.14	0.8514	0.6987	0.4701
	19	2.127	2.499	85.14	0.8514	0.6987	0.4701
	39	2.127	2.499	85.14	0.8514	0.6987	0.4701
BLE 2M	0	1.075	2.500	43.02	0.4302	3.6633	0.9302
	19	1.074	2.499	43.00	0.4300	3.6653	0.9311
	39	1.075	2.500	43.02	0.4302	3.6633	0.9302

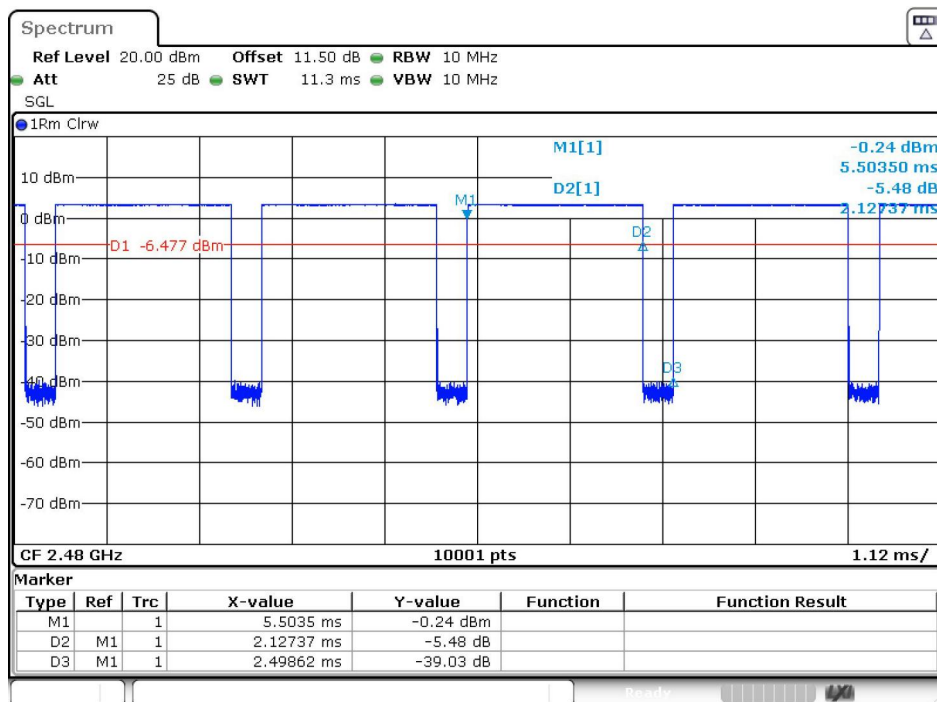
Test Graphs





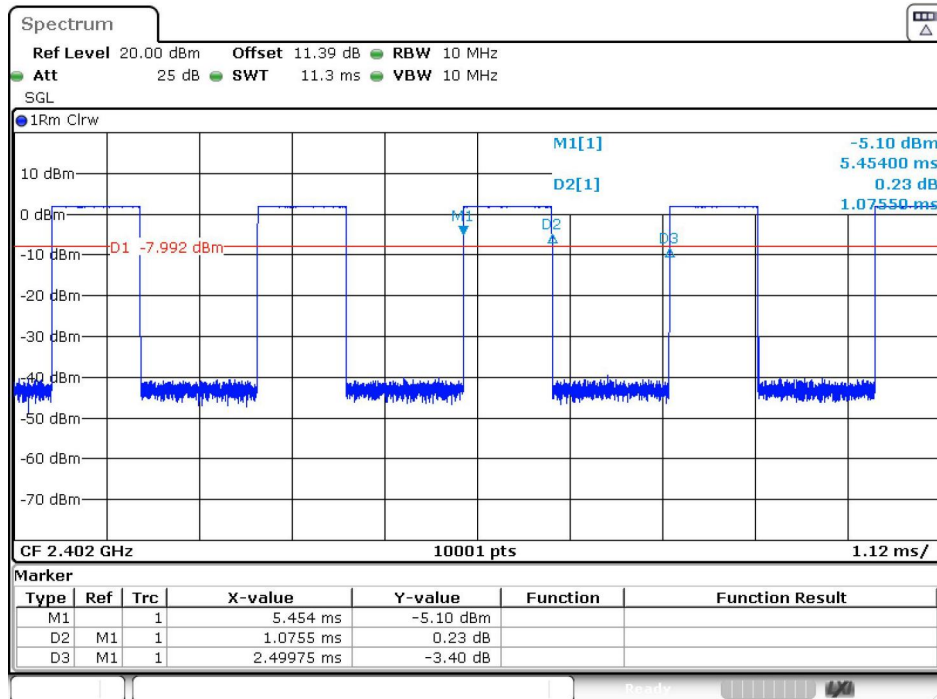
Date: 8.JAN.2025 18:20:31

BLE 1M_Channel 19



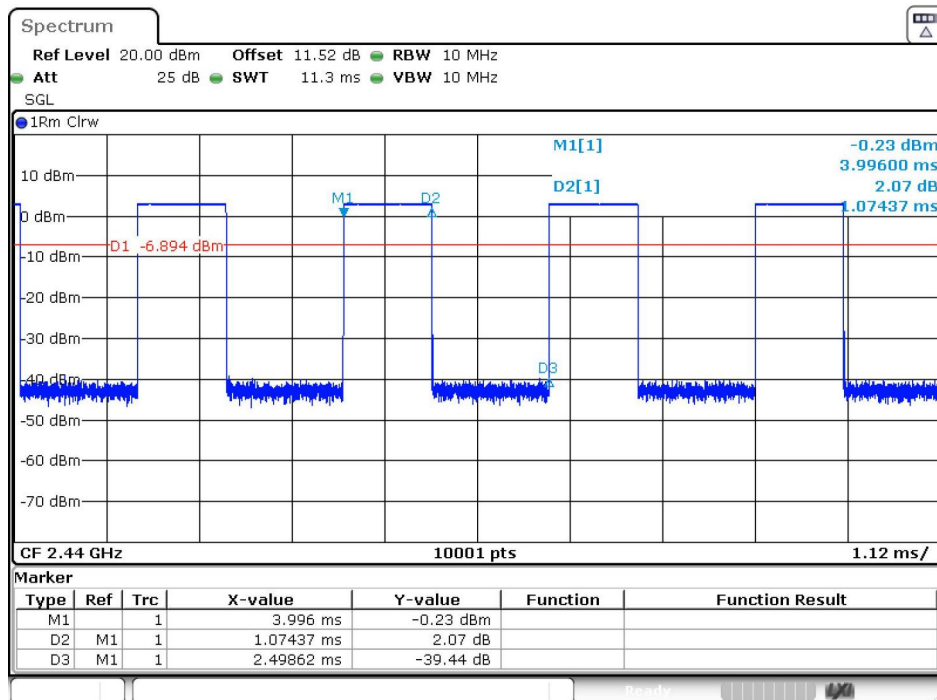
Date: 8.JAN.2025 18:23:22

BLE 1M_Channel 39



Date: 8.JAN.2025 18:26:02

BLE 2M_Channel 0



Date: 8.JAN.2025 18:29:39

BLE 2M_Channel 19



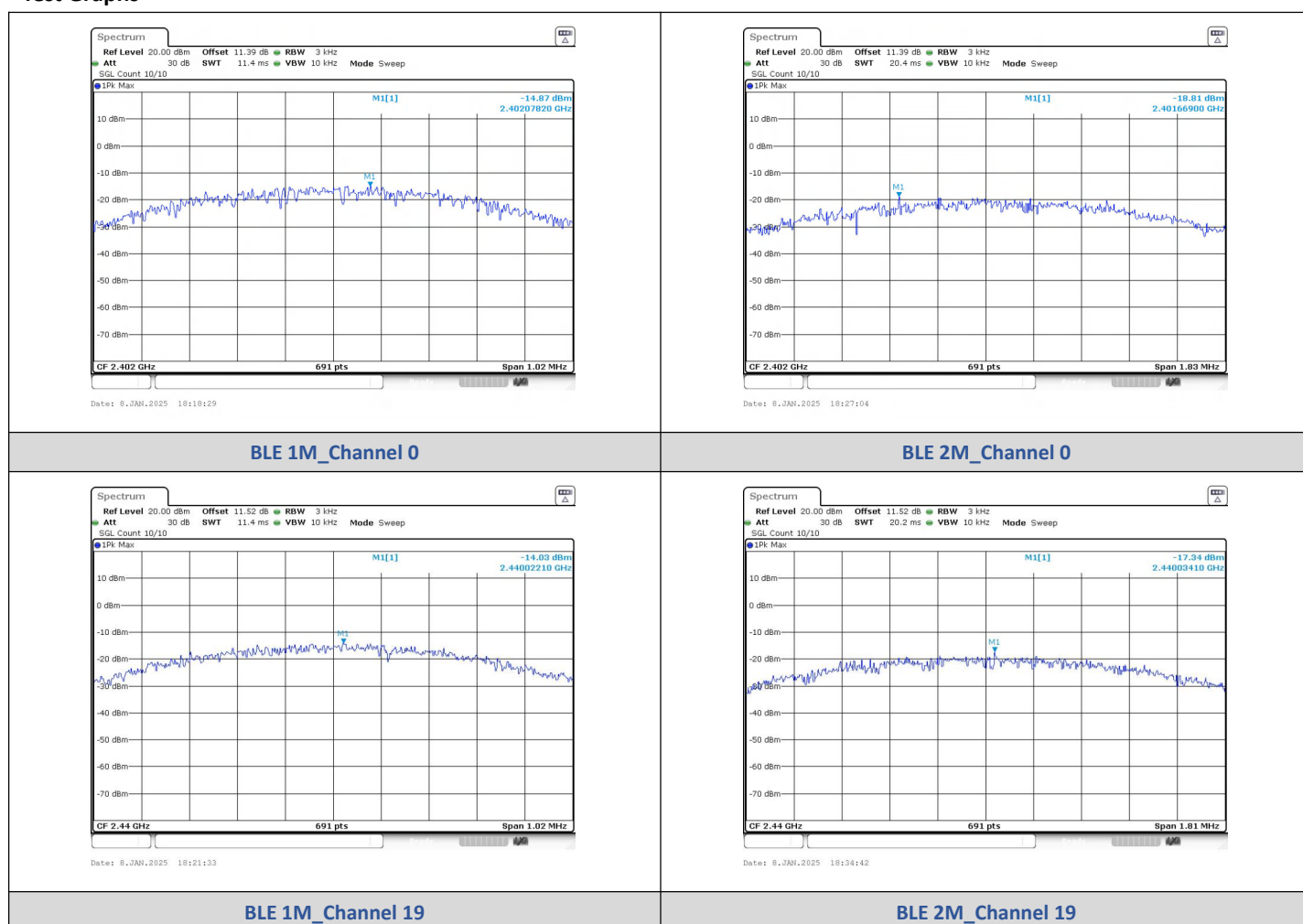
BLE 2M_Channel 39

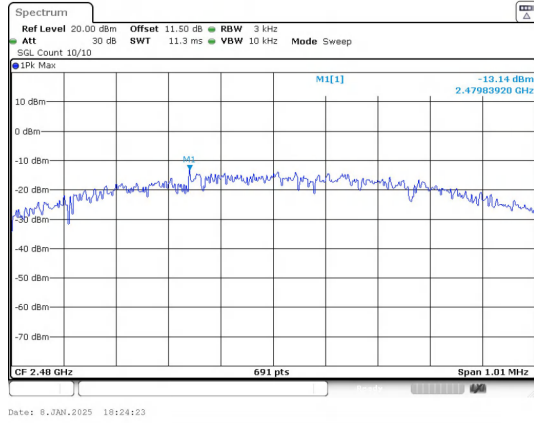
2) Power Spectral Density

Test Result

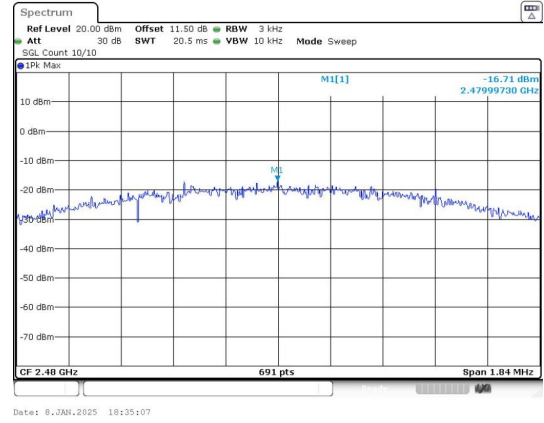
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-14.870	≤8	PASS
BLE 1M	19	-14.030	≤8	PASS
BLE 1M	39	-13.140	≤8	PASS
BLE 2M	0	-18.810	≤8	PASS
BLE 2M	19	-17.340	≤8	PASS
BLE 2M	39	-16.710	≤8	PASS

Test Graphs





BLE 1M_Channel 39



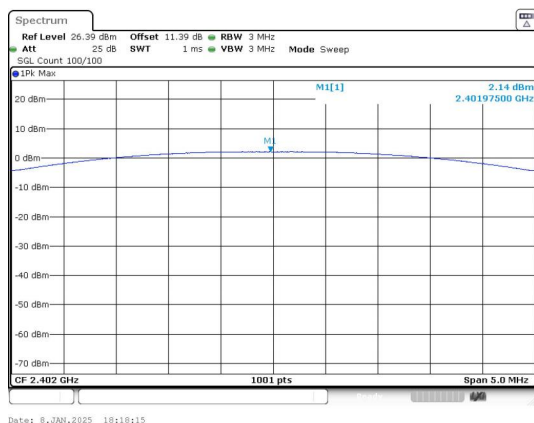
BLE 2M_Channel 39

3) Conducted Output Power

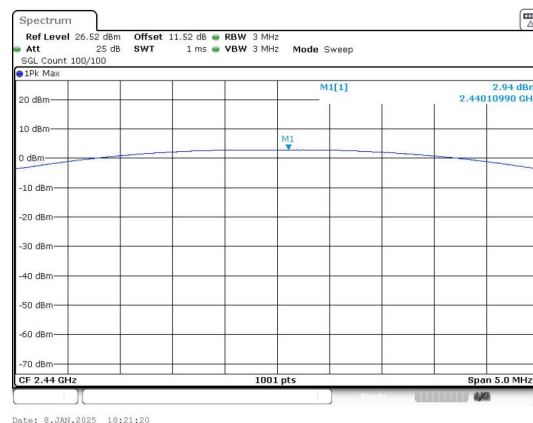
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	2.14	1.64	≤30	PASS
	19	2.94	1.97	≤30	PASS
	39	3.43	2.2	≤30	PASS
BLE 2M	0	1.96	1.57	≤30	PASS
	19	3.02	2.0	≤30	PASS
	39	3.33	2.15	≤30	PASS

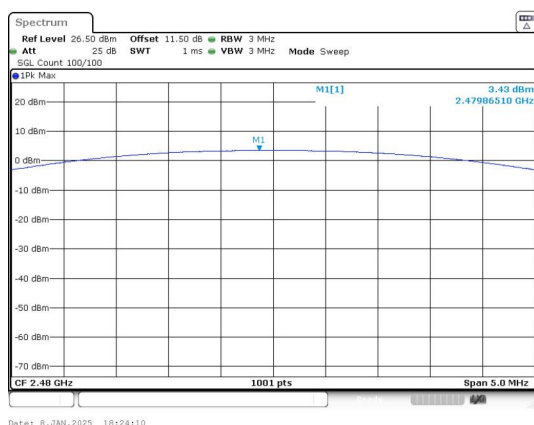
Test Graphs



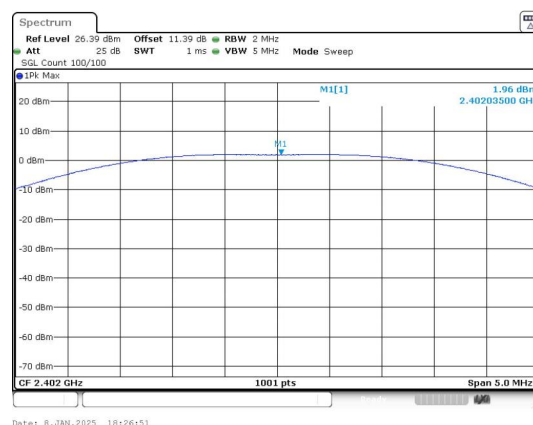
Peak Output Power
BLE 1M_Channel 0



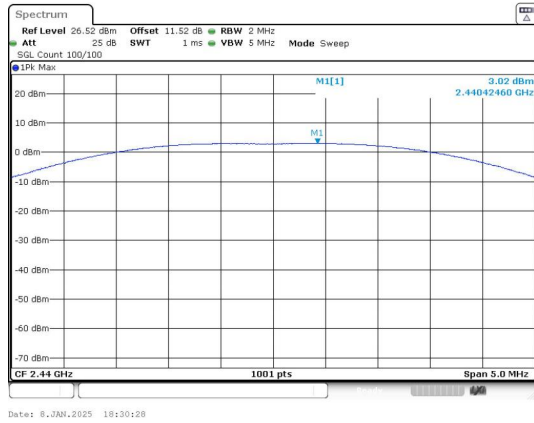
Peak Output Power
BLE 1M_Channel 19



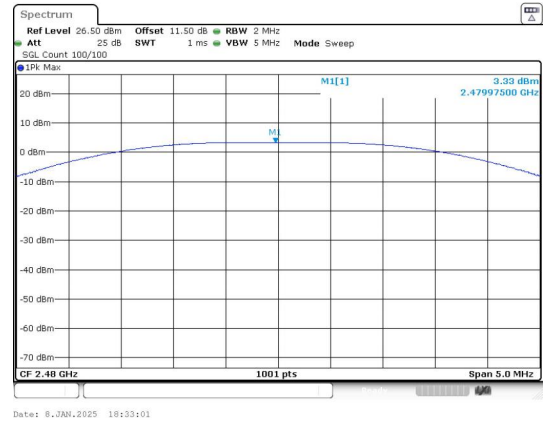
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



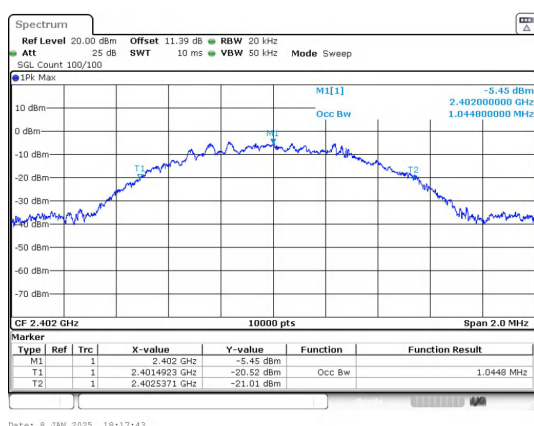
Peak Output Power
BLE 2M_Channel 39

4) 99% Bandwidth

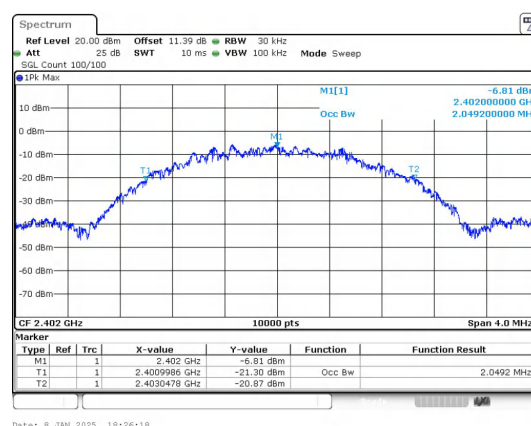
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0448
BLE 1M	19	2440	1.0506
BLE 1M	39	2480	1.0598
BLE 2M	0	2402	2.0492
BLE 2M	19	2440	2.0584
BLE 2M	39	2480	2.0544

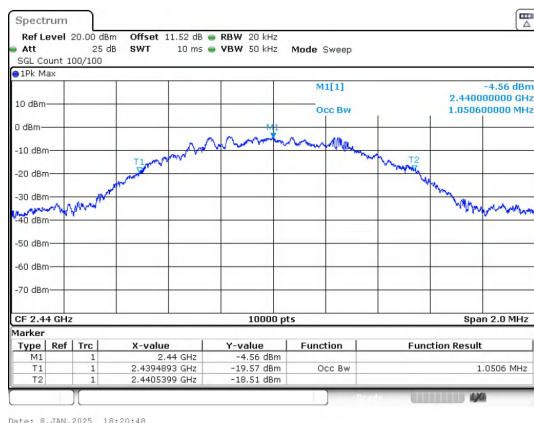
Test Graphs



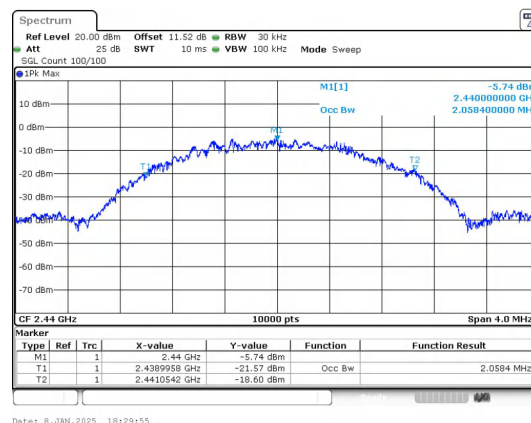
BLE 1M_Channel 0



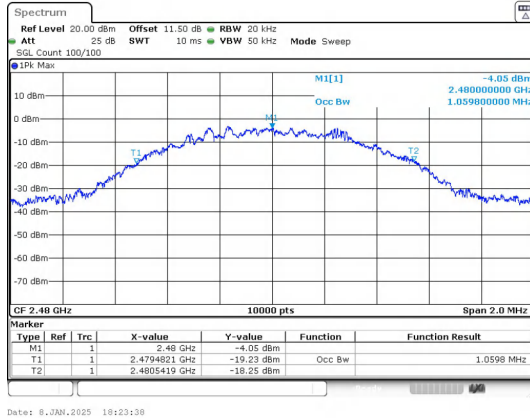
BLE 2M_Channel 0



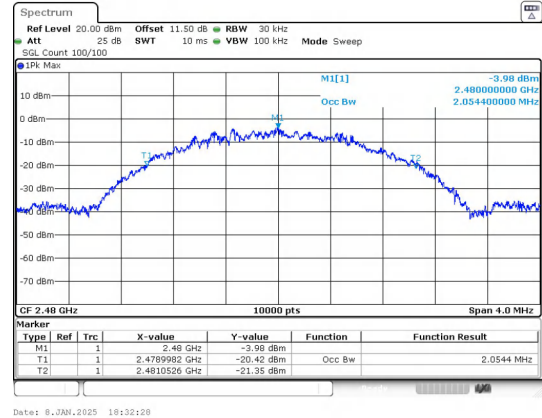
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



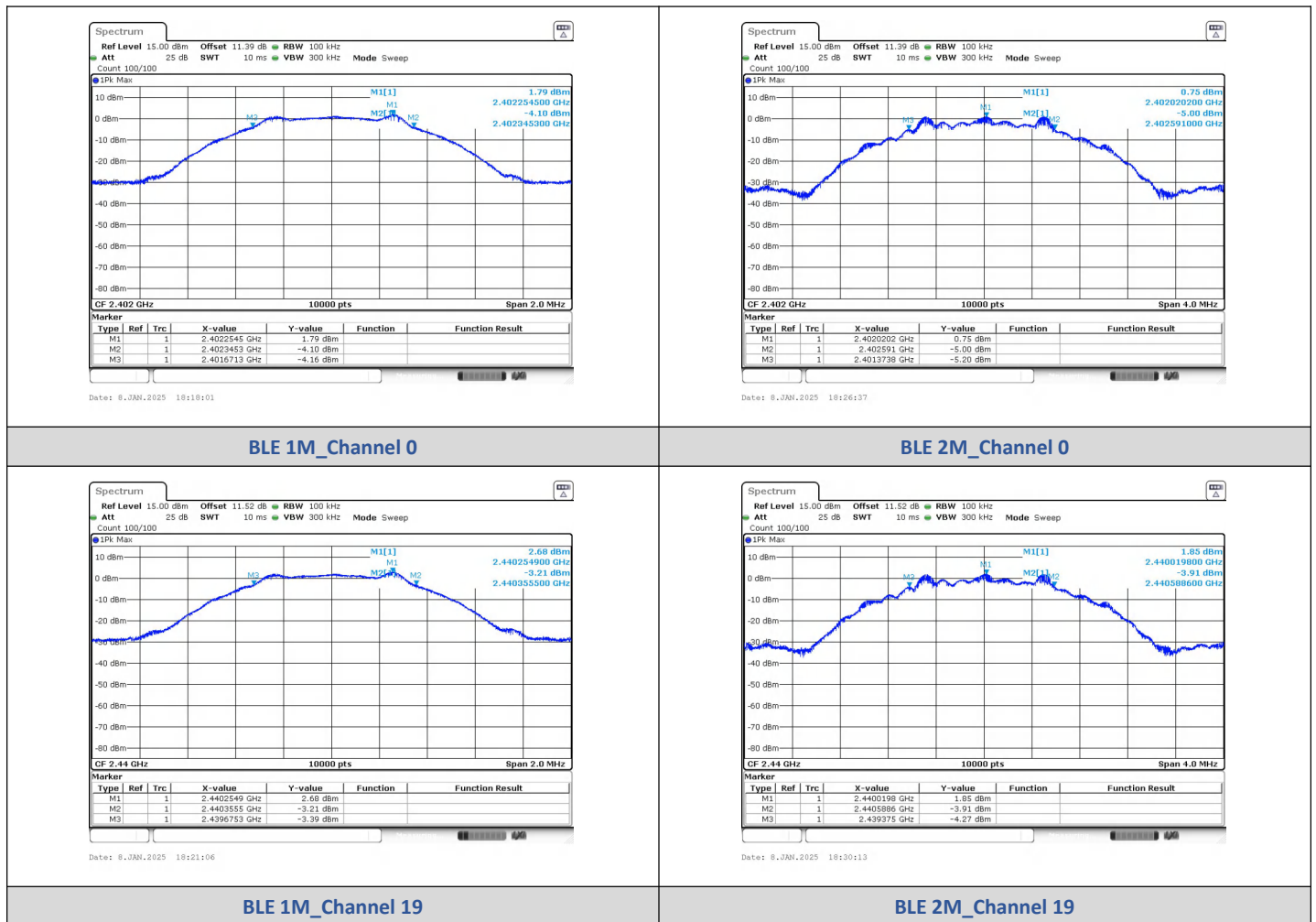
BLE 2M_Channel 39

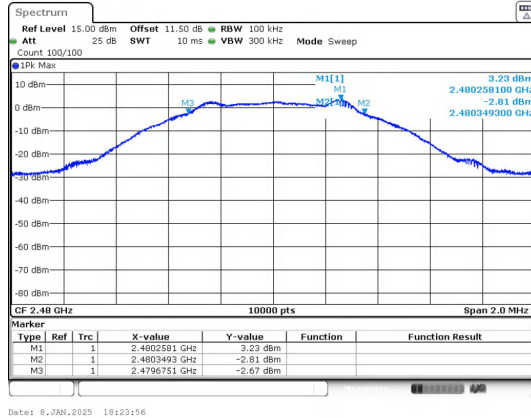
5) 6dB Bandwidth

Test Result

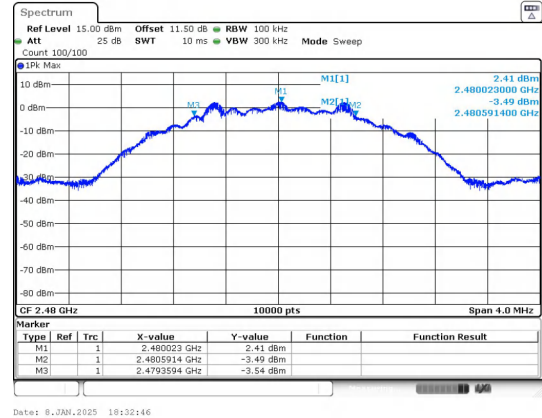
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6800	≥0.5	PASS
	19	2440	0.6800		PASS
	39	2480	0.6700		PASS
BLE 2M	0	2402	1.220		PASS
	19	2440	1.210		PASS
	39	2480	1.230		PASS

Test Graphs





BLE 1M_Channel 39



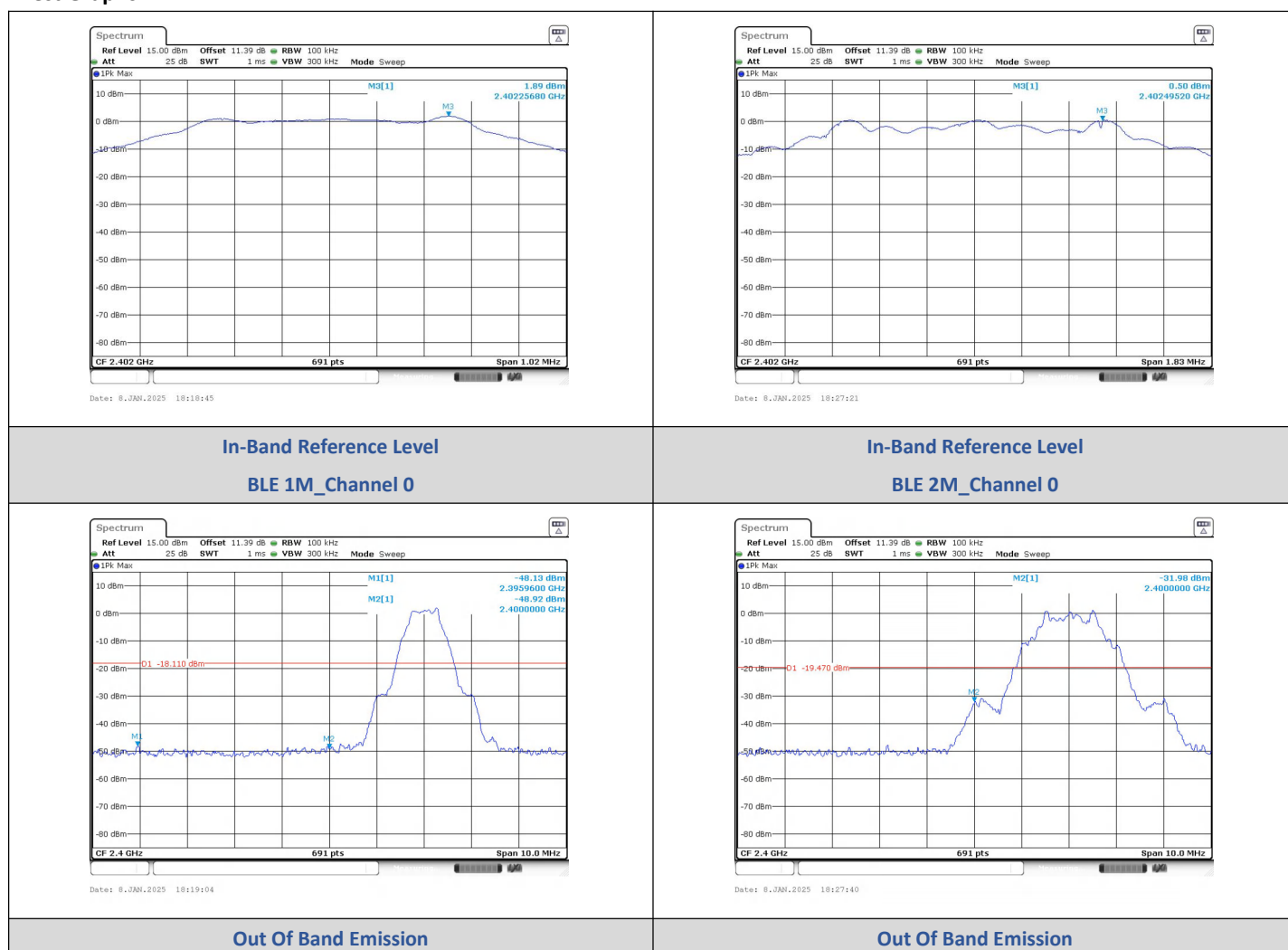
BLE 2M_Channel 39

6) Conducted Out Of Band Emission

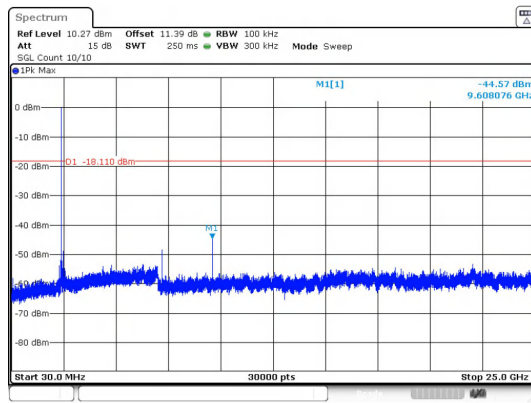
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2395.96	-48.127	-18.11	-30.017	PASS
		2400.00	-48.920	-18.11	-30.810	PASS
		9608.10	-44.565	-18.11	-26.455	PASS
	19	9760.39	-43.792	-17.41	-26.382	PASS
	39	2483.50	-48.800	-16.71	-32.090	PASS
		9920.20	-42.905	-16.71	-26.195	PASS
BLE 2M	0	2400.00	-33.400	-19.47	-13.930	PASS
		9608.08	-45.761	-19.47	-26.291	PASS
	19	9760.39	-43.634	-18.42	-25.214	PASS
	39	2483.50	-49.030	-17.85	-31.180	PASS
		9920.20	-41.706	-17.85	-23.856	PASS

Test Graphs

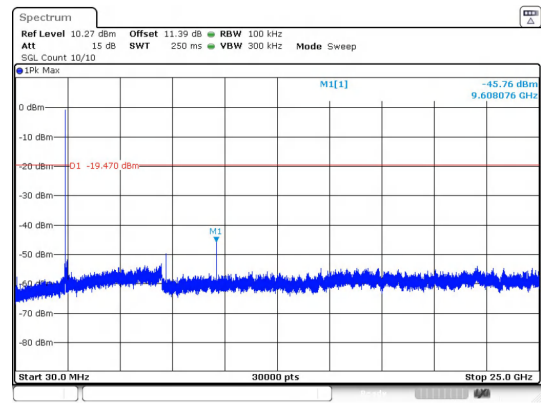


BLE 1M_Channel 0



Date: 8.JAN.2025 18:19:27

BLE 2M_Channel 0



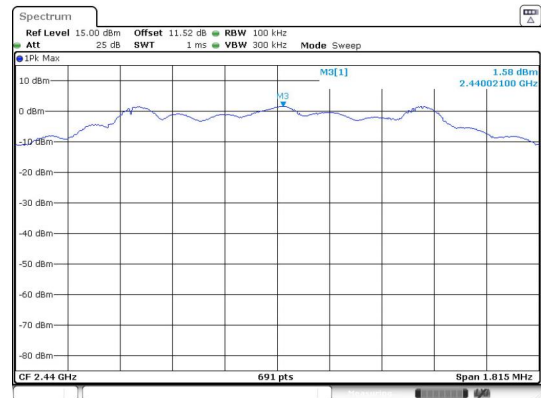
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**30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0**



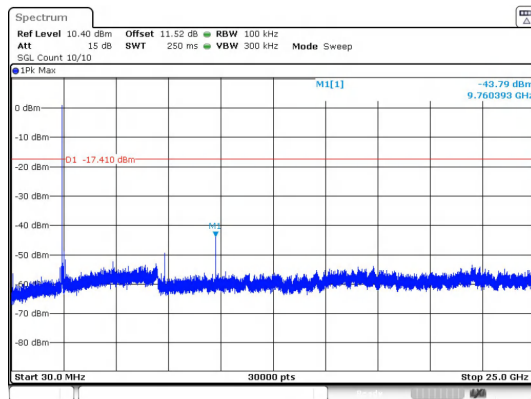
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**30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0**



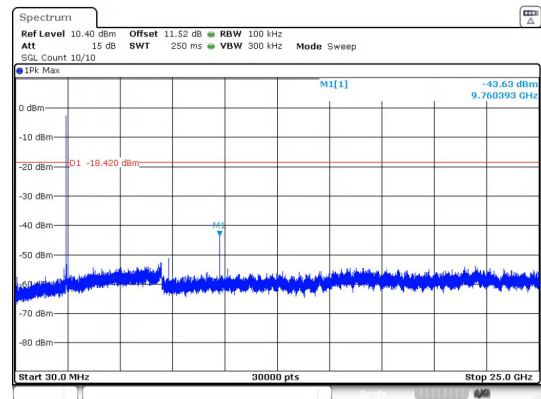
Date: 8.JAN.2025 18:30:58

**In-Band Reference Level
BLE 1M_Channel 19**



Date: 8.JAN.2025 18:22:14

**In-Band Reference Level
BLE 2M_Channel 19**



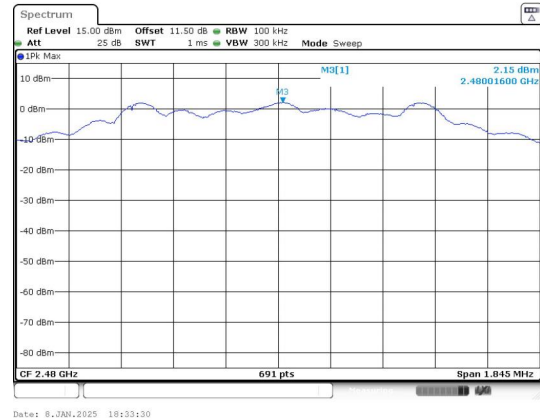
Date: 8.JAN.2025 18:31:22

**30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19**

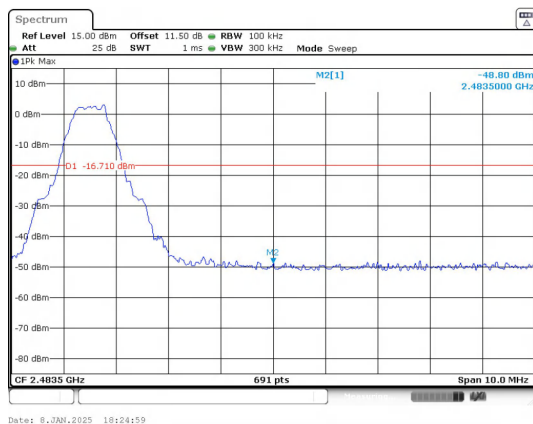
**30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19**



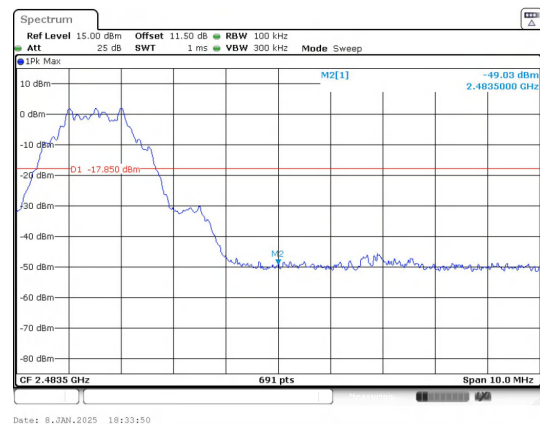
In-Band Reference Level
BLE 1M_Channel 39



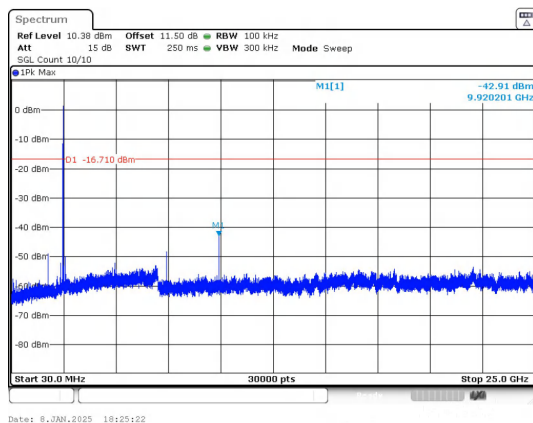
In-Band Reference Level
BLE 2M_Channel 39



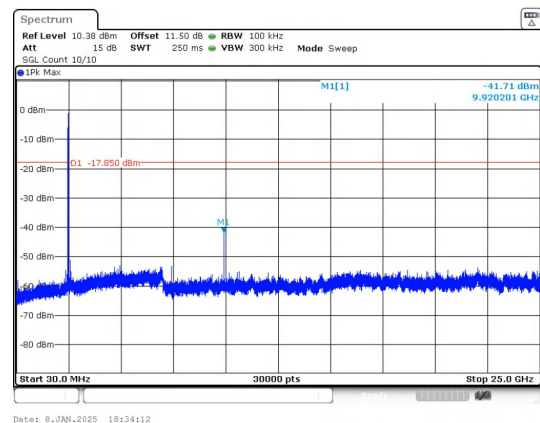
Out Of Band Emission
BLE 1M_Channel 39



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

-----End of the report-----