

Appendix B

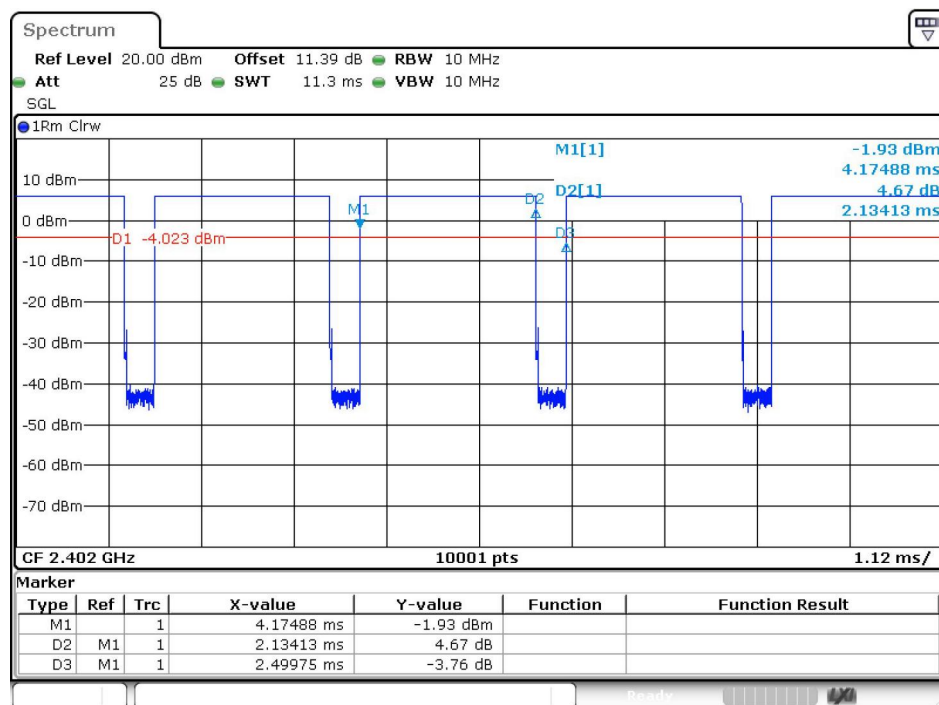
Report No.:	CISRR24082719802
FCC ID:	2BKVY-BCI-AIC
Product Name:	Smart EEG Glasses
Model No.:	BCI-AIC
Test Engineer:	Jimmy Huang
Supervised by:	Rory Huang

1) Duty Cycle

Test Result

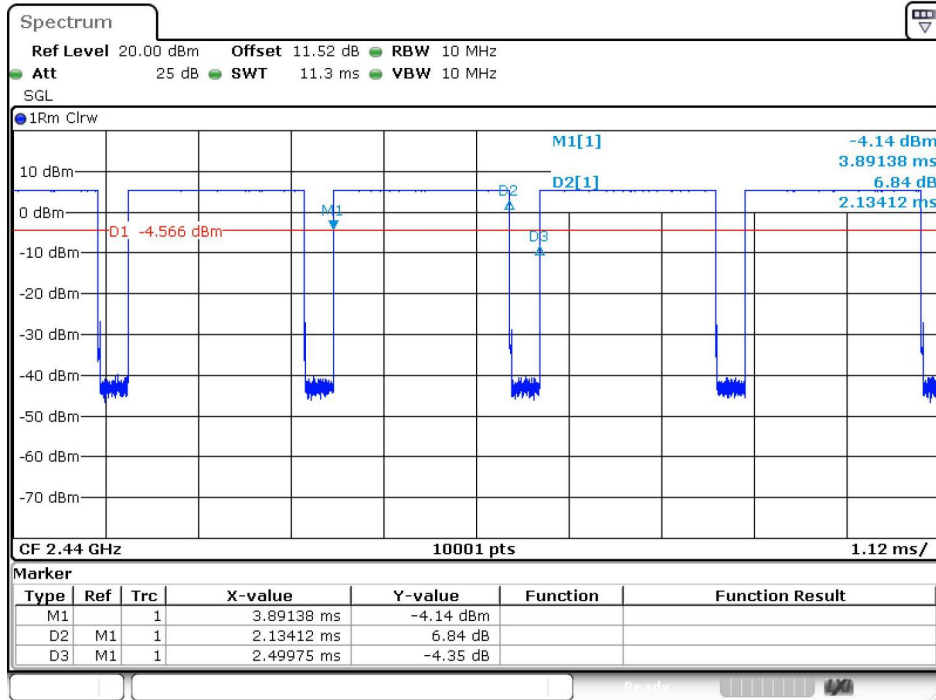
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.134	2.500	85.37	0.8537	0.6869	0.47
	19	2.134	2.500	85.37	0.8537	0.6869	0.47
	39	2.134	2.499	85.41	0.8541	0.6849	0.47
BLE 2M	0	1.082	2.499	43.31	0.4331	3.6341	0.92
	19	1.082	2.499	43.31	0.4331	3.6341	0.92
	39	1.081	2.499	43.27	0.4327	3.6381	0.93

Test Graphs



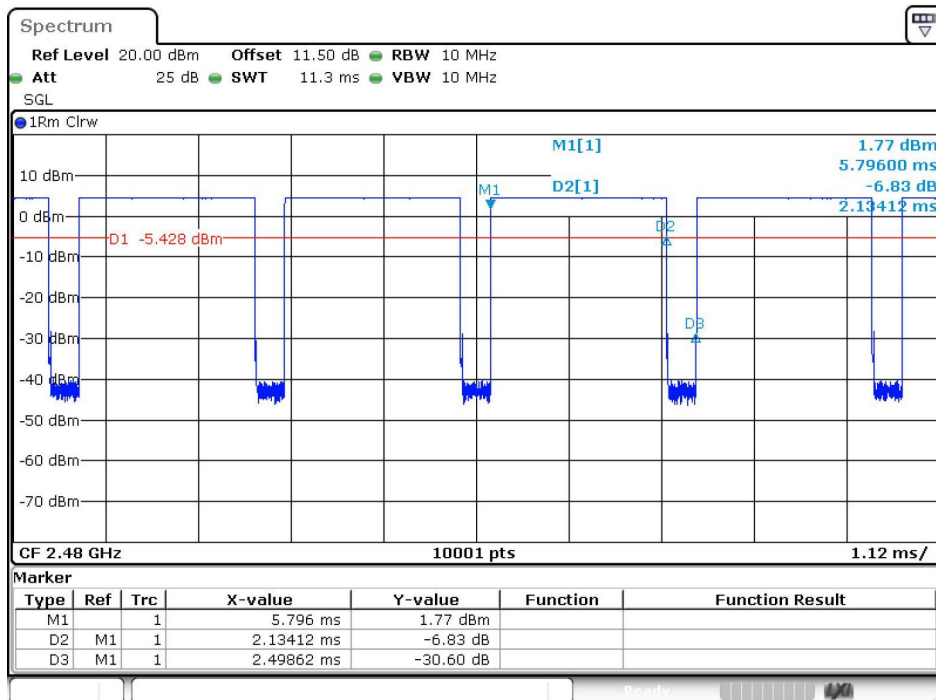
Date: 30.AUG.2024 15:56:33

BLE 1M_Channel 0



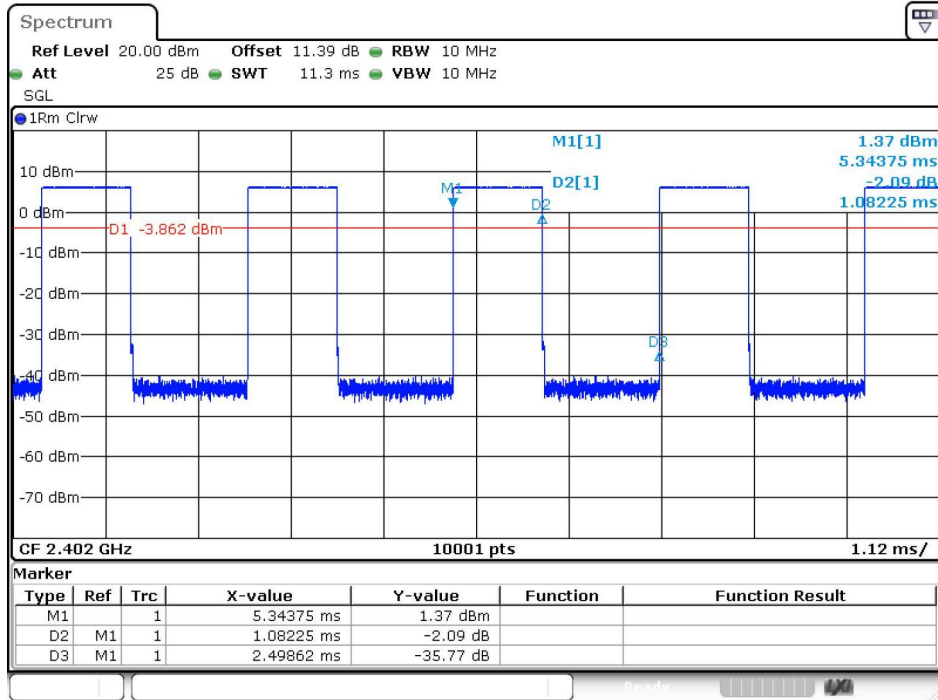
Date: 30.AUG.2024 16:00:30

BLE 1M_Channel 19



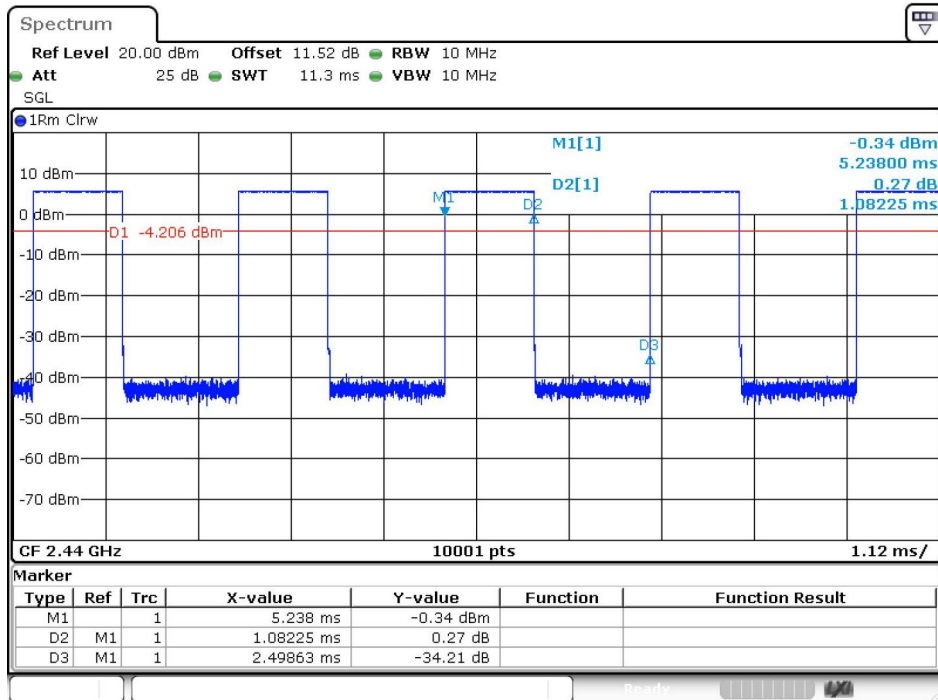
Date: 30.AUG.2024 16:03:28

BLE 1M_Channel 39



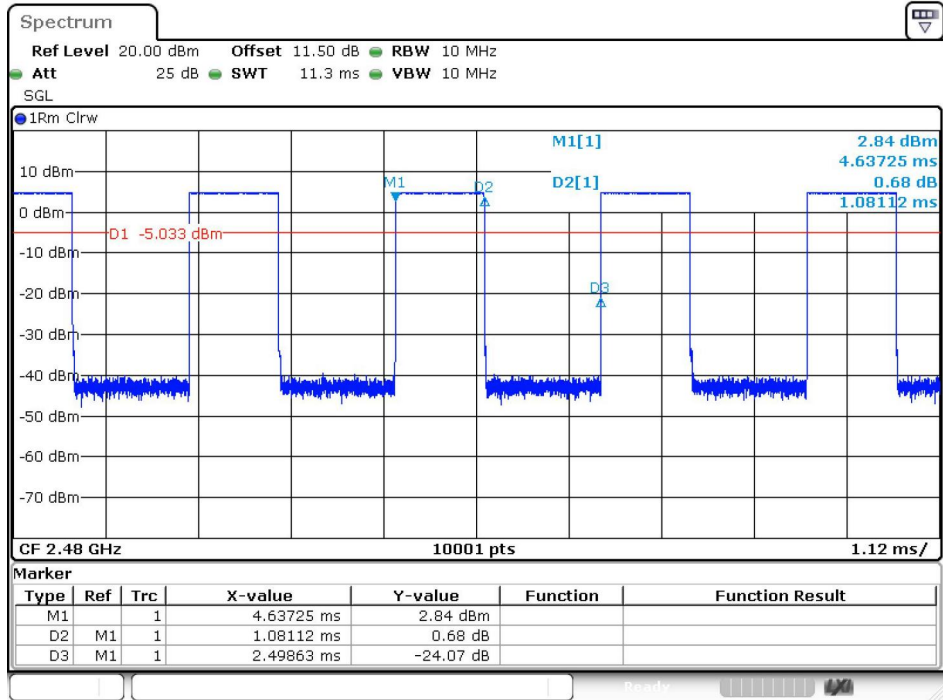
Date: 30.AUG.2024 16:06:52

BLE 2M_Channel 0



Date: 30.AUG.2024 16:10:12

BLE 2M_Channel 19



Date: 30.AUG.2024 16:12:46

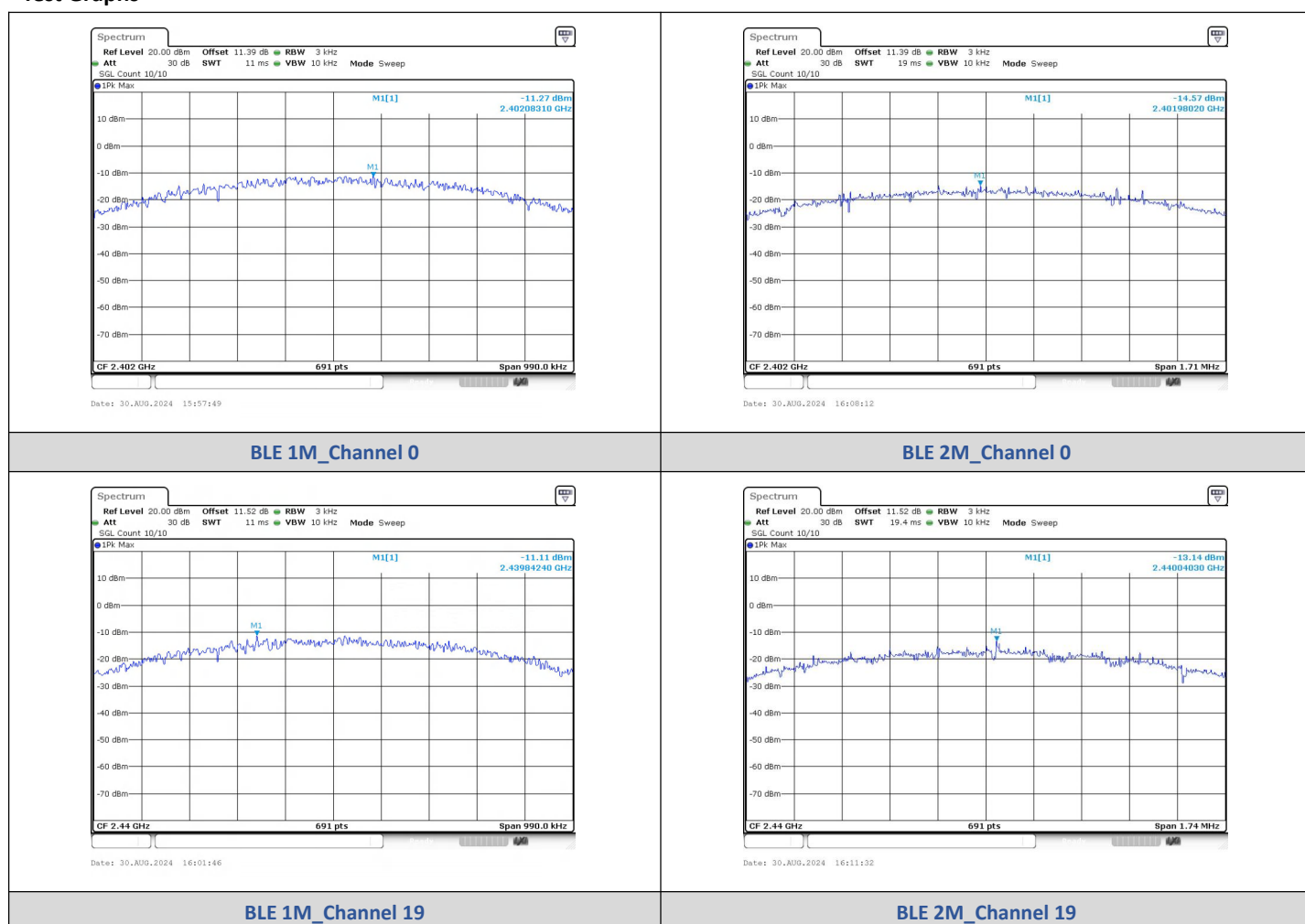
BLE 2M_Channel 39

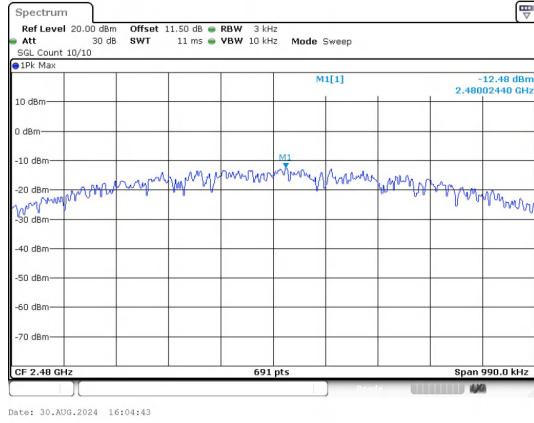
2) Power Spectral Density

Test Result

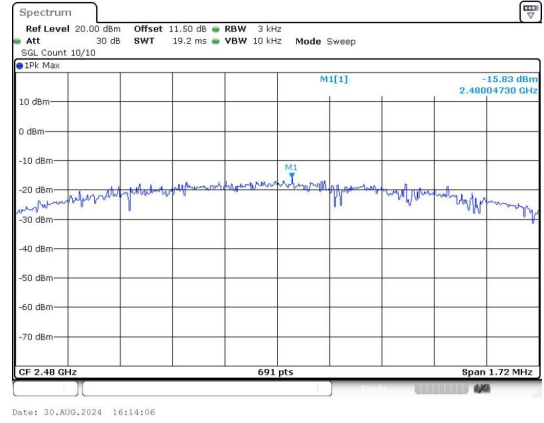
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-11.267	≤8	PASS
BLE 1M	19	-11.106	≤8	PASS
BLE 1M	39	-12.482	≤8	PASS
BLE 2M	0	-14.570	≤8	PASS
BLE 2M	19	-13.139	≤8	PASS
BLE 2M	39	-15.829	≤8	PASS

Test Graphs





BLE 1M_Channel 39



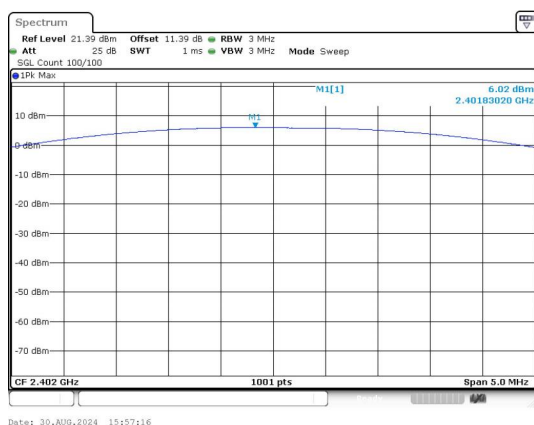
BLE 2M_Channel 39

3) Conducted Output Power

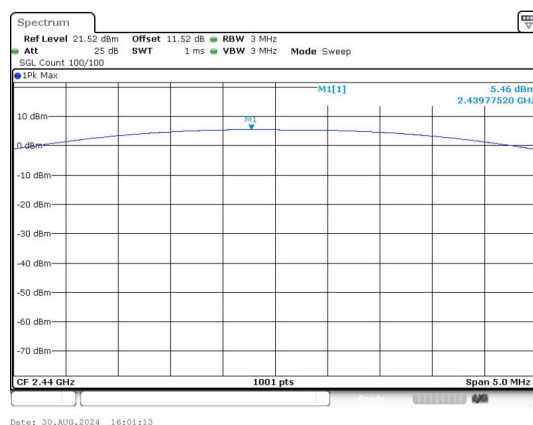
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	6.02	4.00	≤30	PASS
	19	5.46	3.51	≤30	PASS
	39	4.63	2.90	≤30	PASS
BLE 2M	0	6.25	4.22	≤30	PASS
	19	5.85	3.84	≤30	PASS
	39	5.01	3.17	≤30	PASS

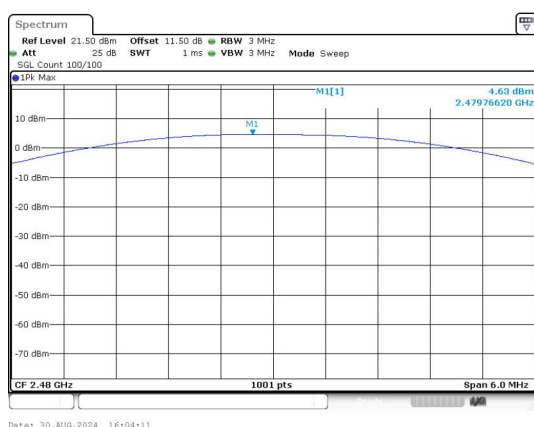
Test Graphs



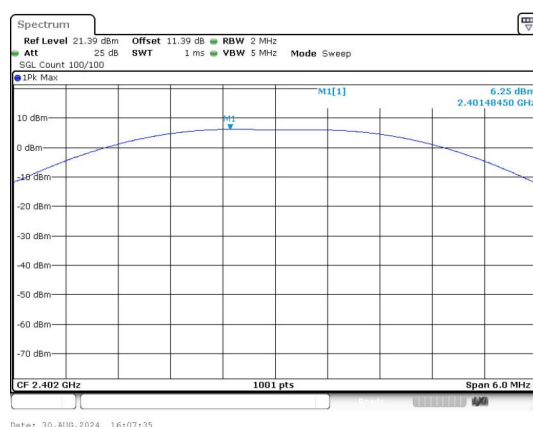
Peak Output Power
BLE 1M_Channel 0



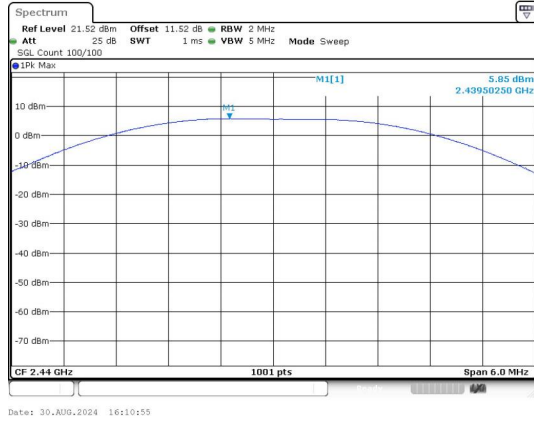
Peak Output Power
BLE 1M_Channel 19



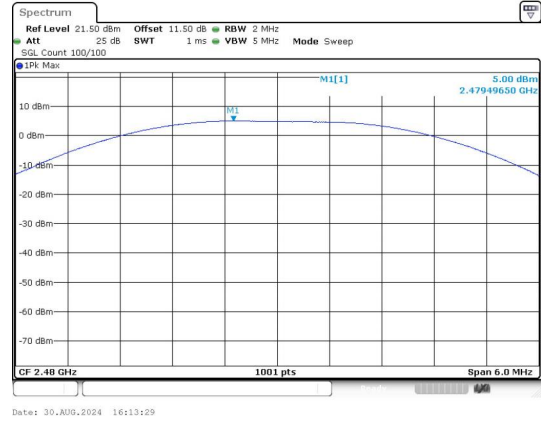
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



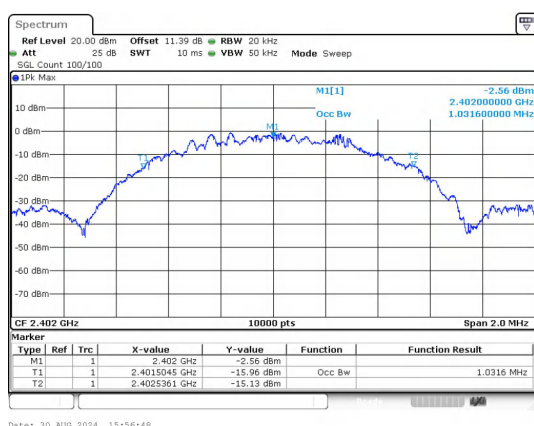
Peak Output Power
BLE 2M_Channel 39

4) 99% Bandwidth

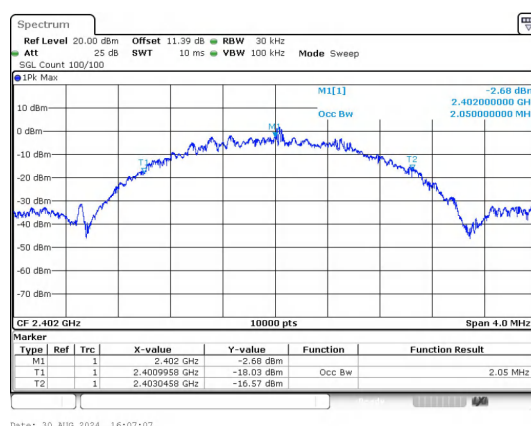
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0316
BLE 1M	19	2440	1.0322
BLE 1M	39	2480	1.0332
BLE 2M	0	2402	2.0500
BLE 2M	19	2440	2.0556
BLE 2M	39	2480	2.0600

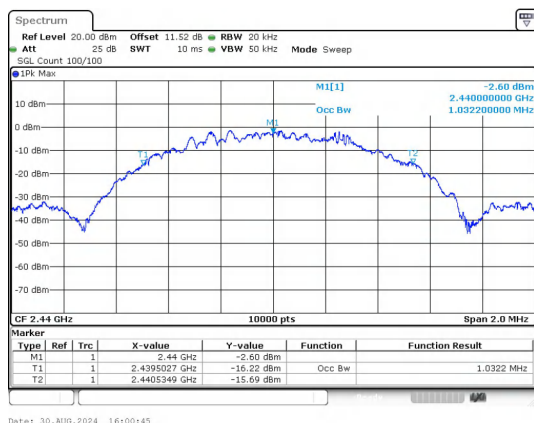
Test Graphs



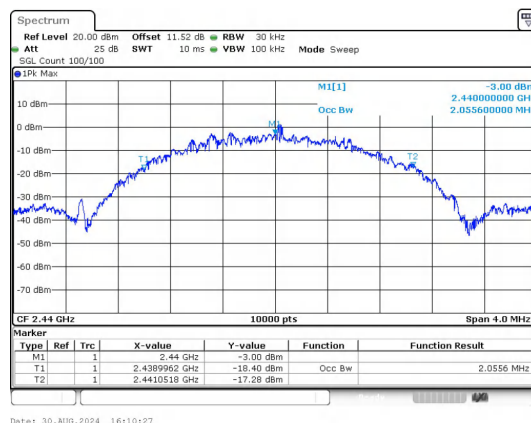
BLE 1M_Channel 0



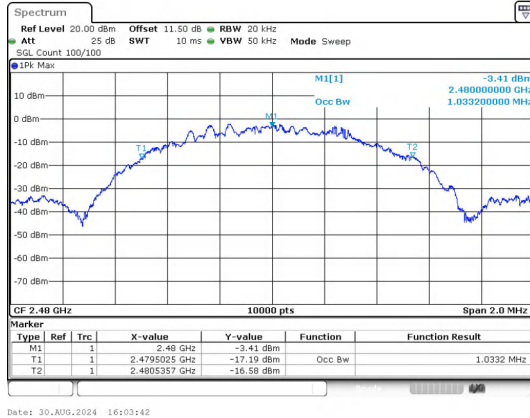
BLE 2M_Channel 0



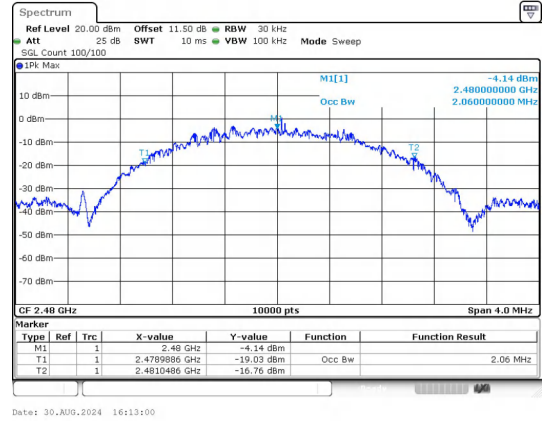
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



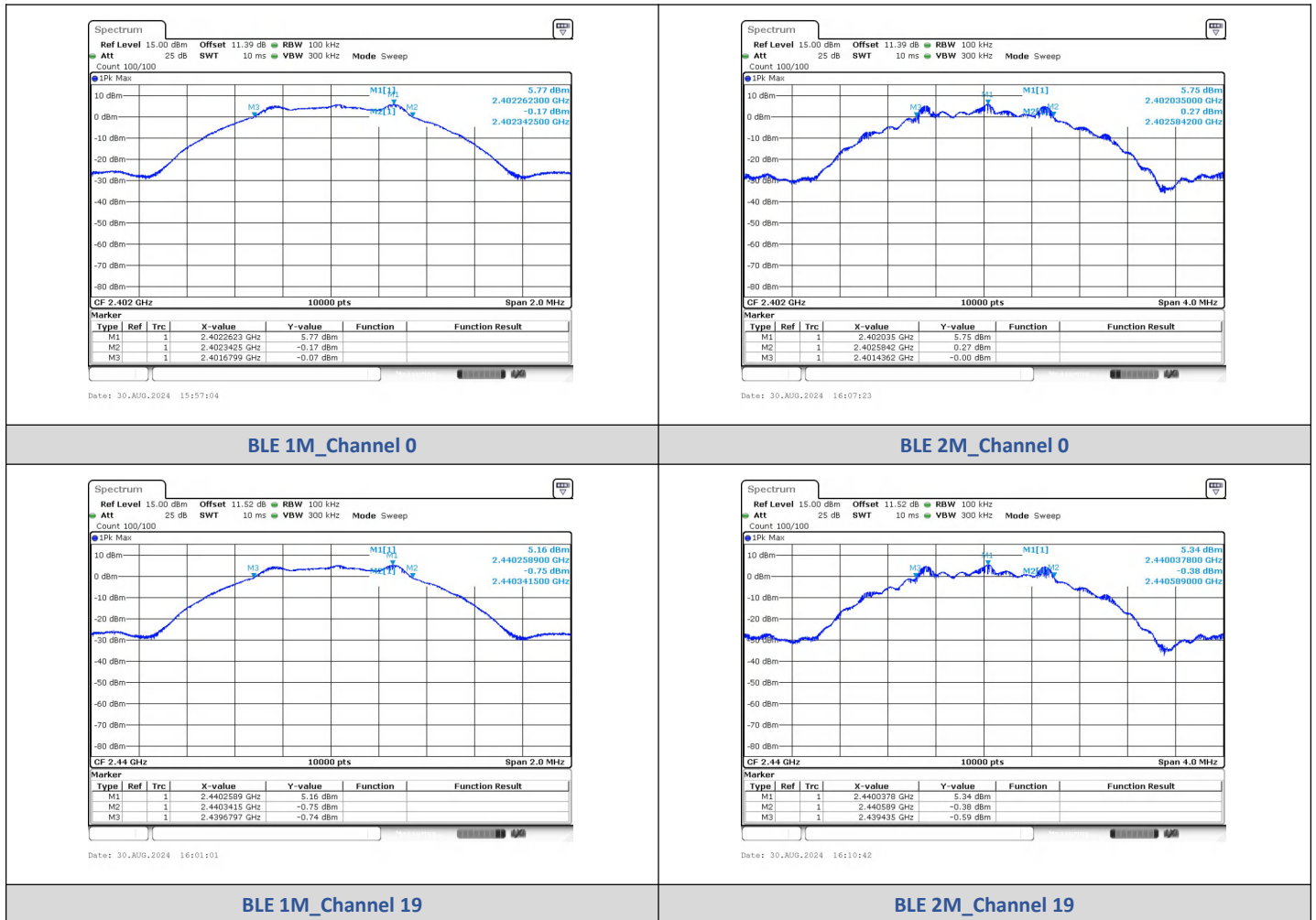
BLE 2M_Channel 39

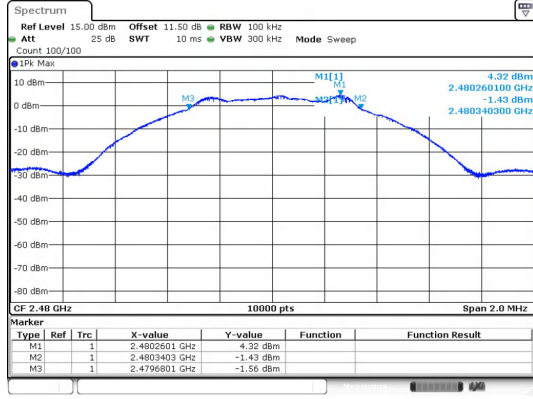
5) 6dB Bandwidth

Test Result

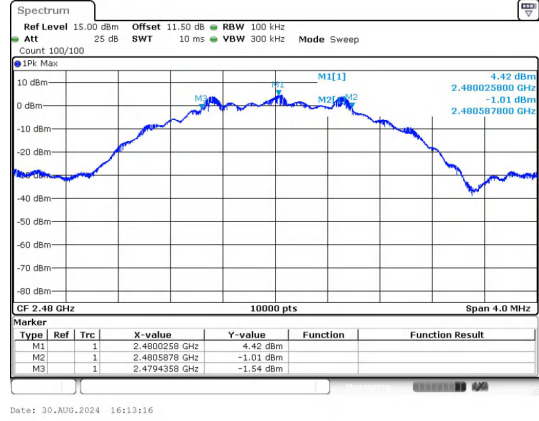
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.140		PASS
	19	2440	1.160		PASS
	39	2480	1.150		PASS

Test Graphs





BLE 1M_Channel 39



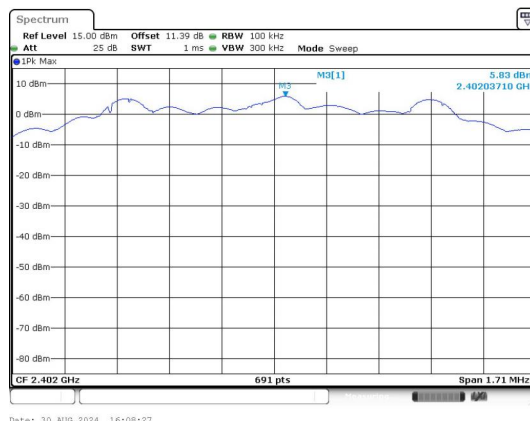
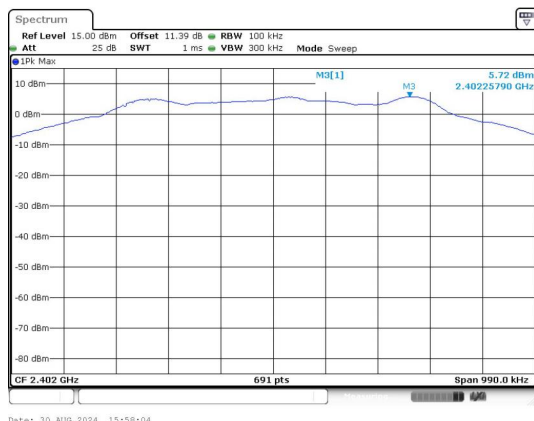
BLE 2M_Channel 39

6) Conducted Out Of Band Emission

Test Result

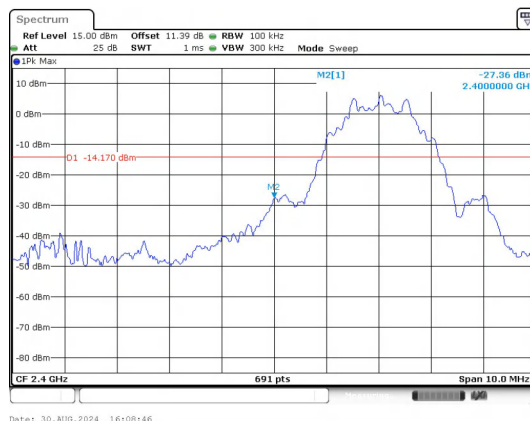
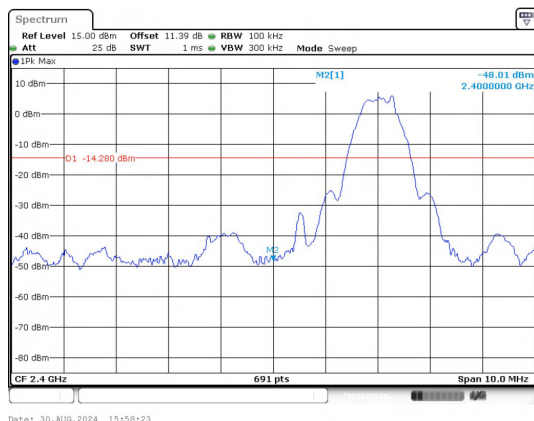
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2399.00	-39.869	-14.28	-25.589	PASS
		2400.00	-48.009	-14.28	-33.729	PASS
		7205.10	-41.418	-14.28	-27.138	PASS
	19	2247.75	-43.054	-14.81	-28.244	PASS
		2287.70	-41.826	-15.68	-26.146	PASS
		2483.50	-46.347	-15.68	-30.667	PASS
BLE 2M	0	2400.00	-27.358	-14.17	-13.188	PASS
		7207.63	-44.666	-14.17	-30.496	PASS
	19	2247.75	-45.328	-14.66	-30.668	PASS
		2288.54	-44.496	-15.47	-29.026	PASS
	39	2483.50	-49.869	-15.47	-34.399	PASS

Test Graphs



In-Band Reference Level
BLE 1M_Channel 0

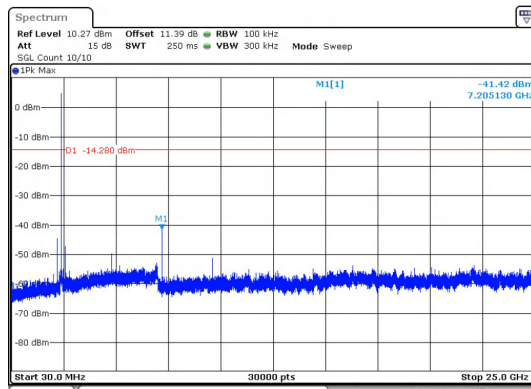
In-Band Reference Level
BLE 2M_Channel 0



Out Of Band Emission

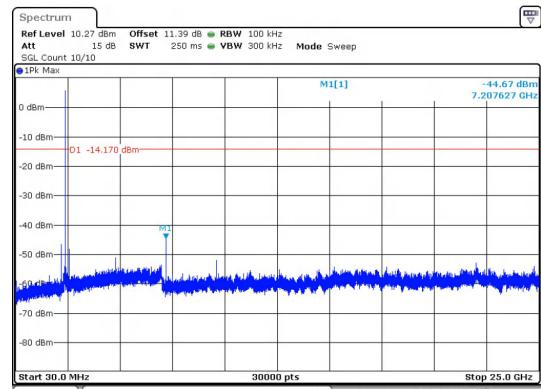
Out Of Band Emission

BLE 1M_Channel 0



Date: 30.AUG.2024 15:58:45

BLE 2M_Channel 0



Date: 30.AUG.2024 16:09:08

30.0 MHz - 25000.0 MHz

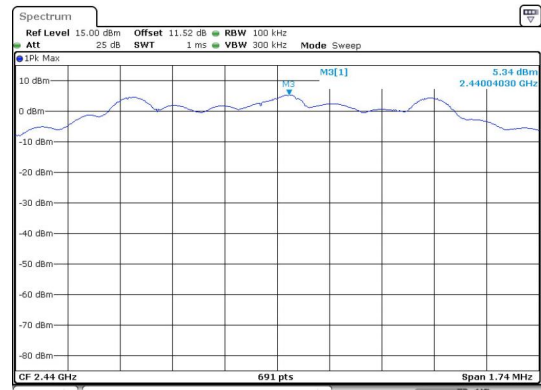
BLE 1M_Channel 0



Date: 30.AUG.2024 16:02:00

30.0 MHz - 25000.0 MHz

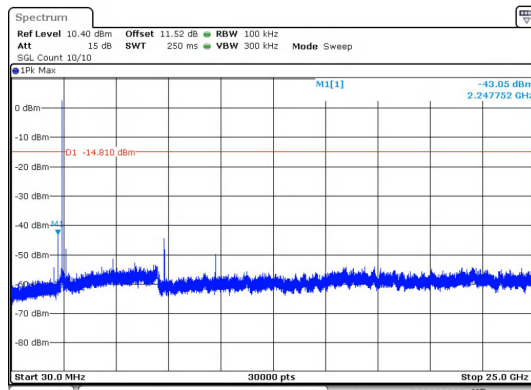
BLE 2M_Channel 0



Date: 30.AUG.2024 16:11:46

In-Band Reference Level

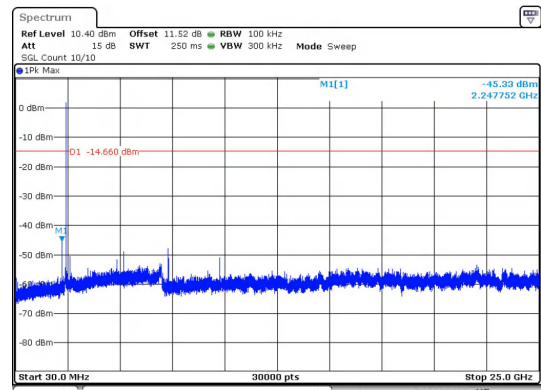
BLE 1M_Channel 19



Date: 30.AUG.2024 16:02:25

In-Band Reference Level

BLE 2M_Channel 19



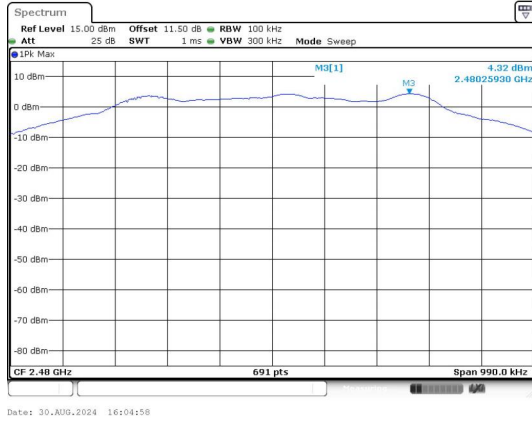
Date: 30.AUG.2024 16:12:11

30.0 MHz - 25000.0 MHz

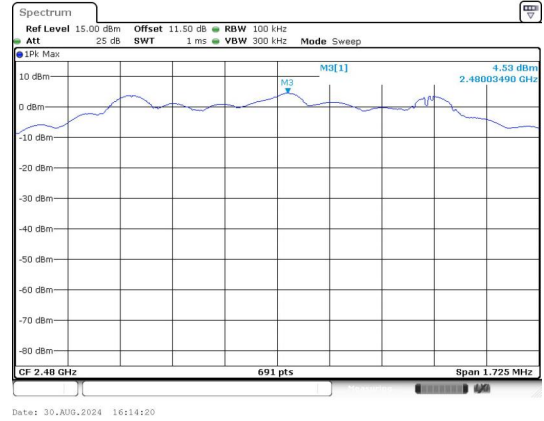
BLE 1M_Channel 19

30.0 MHz - 25000.0 MHz

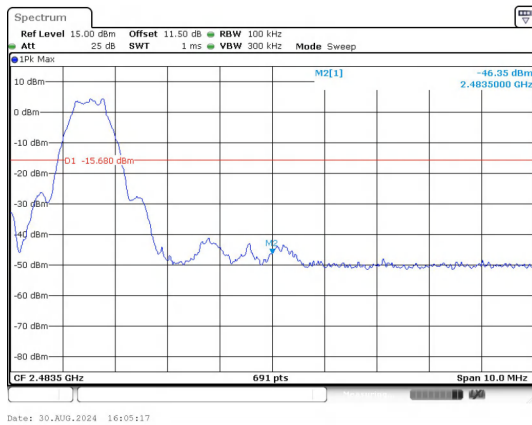
BLE 2M_Channel 19



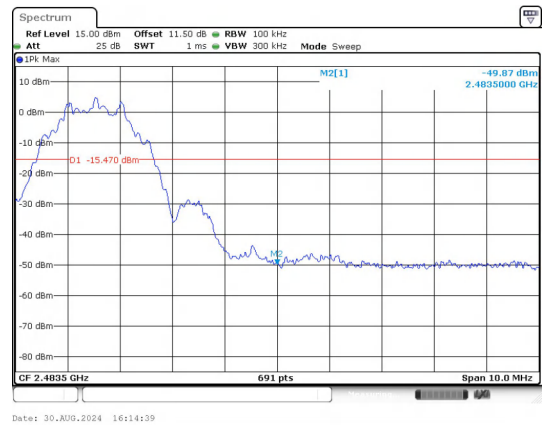
**In-Band Reference Level
BLE 1M_Channel 39**



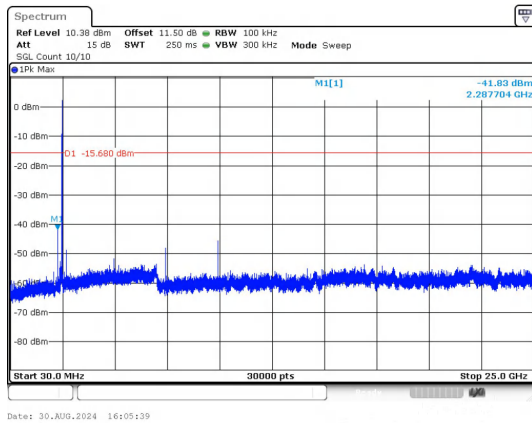
**In-Band Reference Level
BLE 2M_Channel 39**



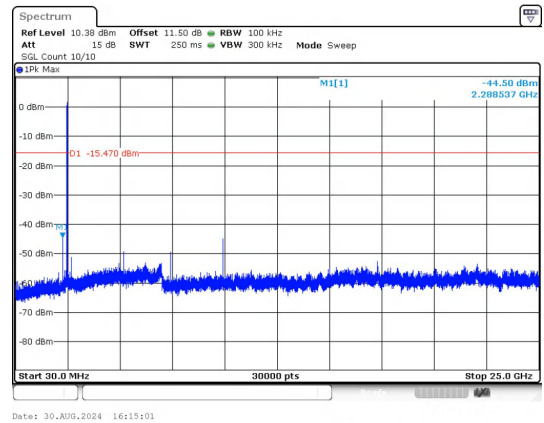
**Out Of Band Emission
BLE 1M_Channel 39**



**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**