

Appendix B

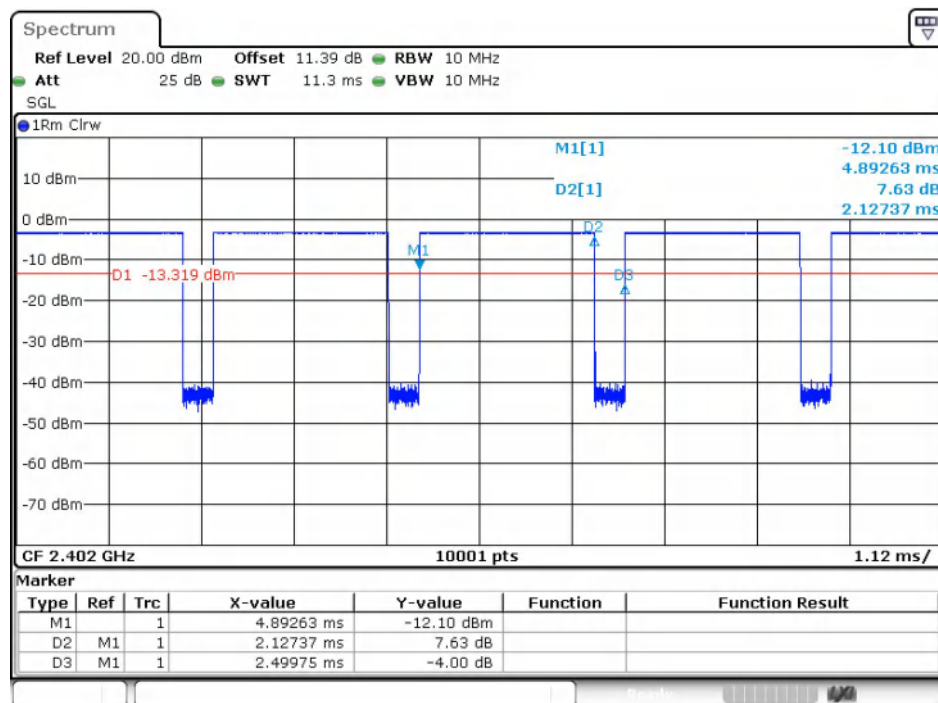
Report No.:	CISRR24102111702
FCC ID:	2BF2Q-KW02
Product Name:	Ice Candy Speaker
Model No.:	KW02
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

1) Duty Cycle

Test Result

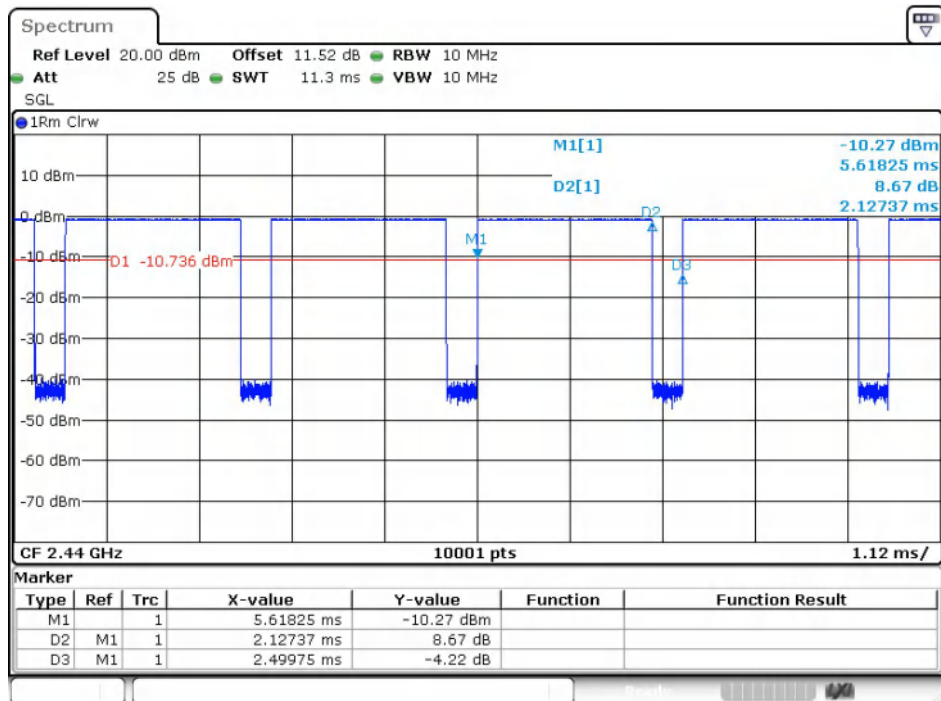
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.127	2.500	85.10	0.8510	0.7007	0.4701
	19	2.127	2.500	85.10	0.8510	0.7007	0.4701
	39	2.127	2.500	85.10	0.8510	0.7007	0.4701
BLE 2M	0	1.070	2.488	43.01	0.4301	3.6643	0.9346
	19	1.074	2.499	43.00	0.4300	3.6653	0.9311
	39	1.070	2.488	43.01	0.4301	3.6643	0.9346

Test Graphs



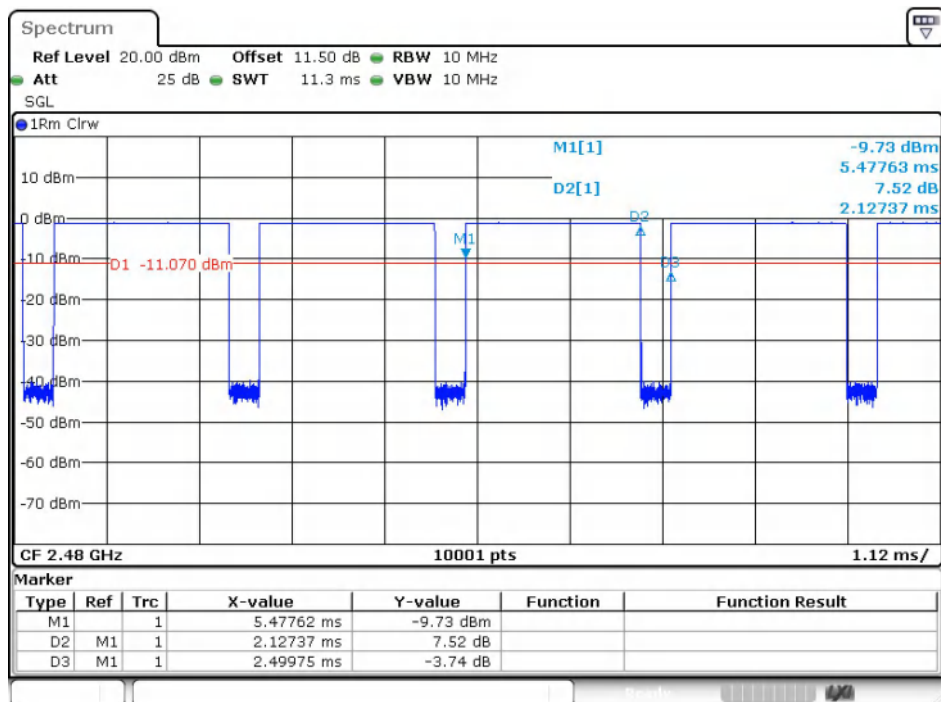
Date: 25.OCT.2024 10:55:33

BLE 1M_Channel 0



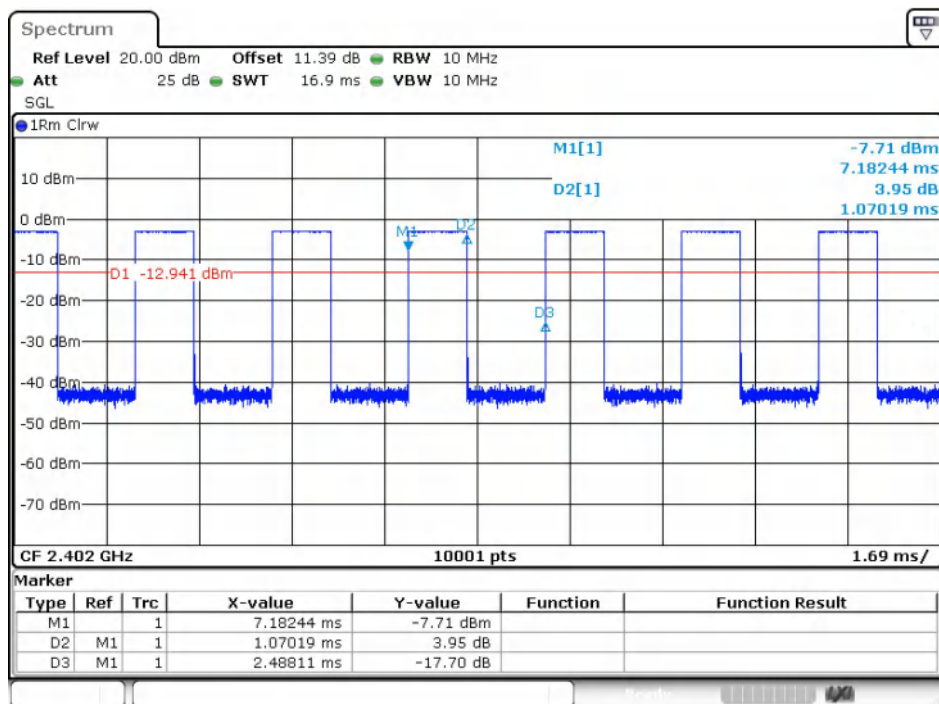
Date: 25.OCT.2024 11:00:25

BLE 1M_Channel 19



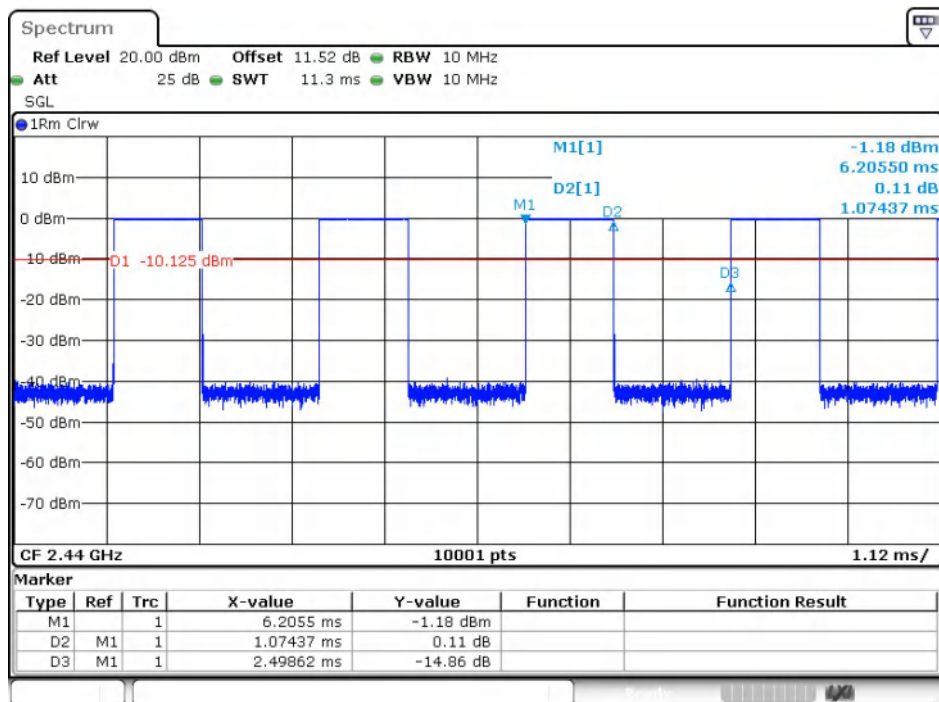
Date: 25.OCT.2024 11:05:56

BLE 1M_Channel 39



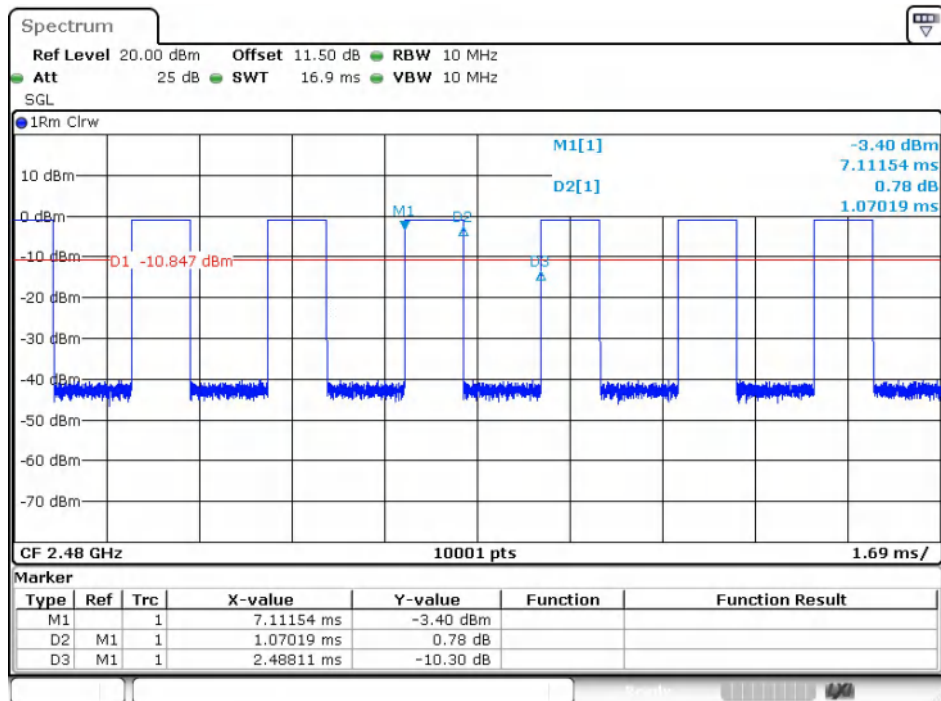
Date: 25.OCT.2024 11:08:35

BLE 2M_Channel 0



Date: 25.OCT.2024 11:11:30

BLE 2M_Channel 19



Date: 25.OCT.2024 11:13:56

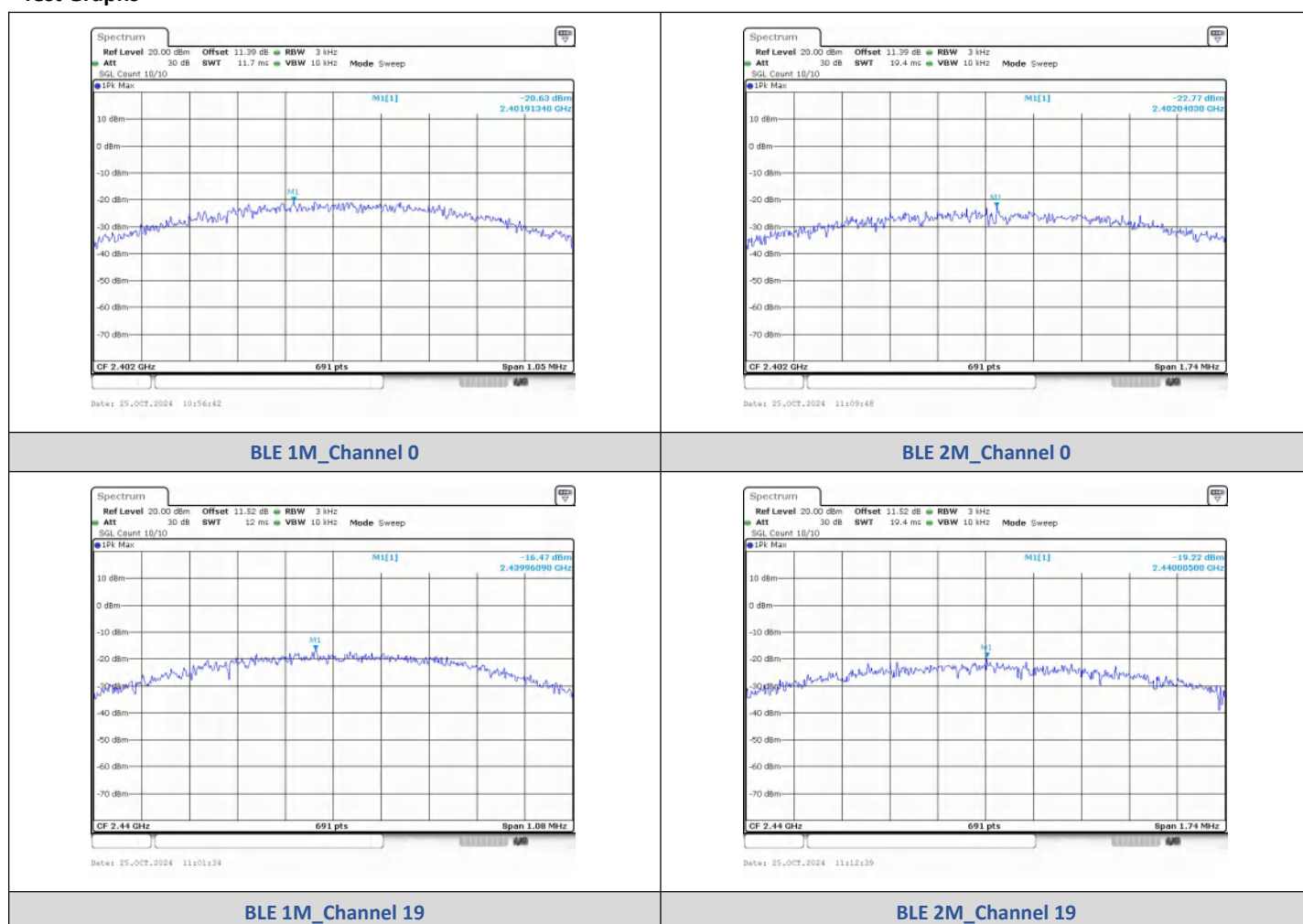
BLE 2M_Channel 39

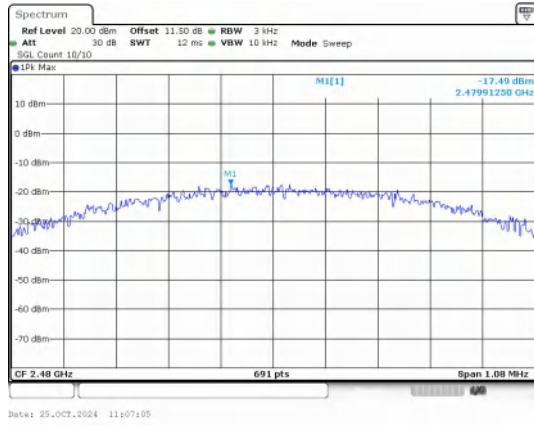
2) Power Spectral Density

Test Result

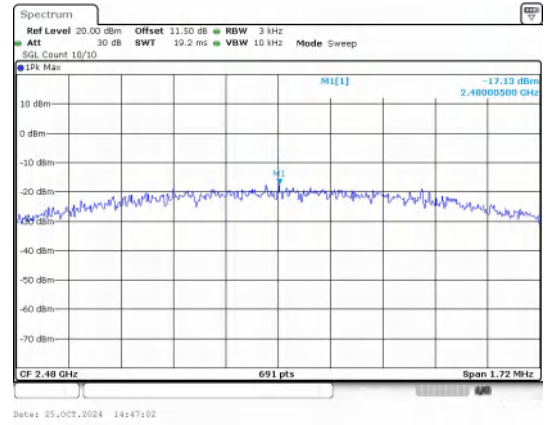
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-20.63	≤8	PASS
BLE 1M	19	-16.47	≤8	PASS
BLE 1M	39	-17.49	≤8	PASS
BLE 2M	0	-22.77	≤8	PASS
BLE 2M	19	-19.22	≤8	PASS
BLE 2M	39	-17.13	≤8	PASS

Test Graphs





BLE 1M_Channel 39



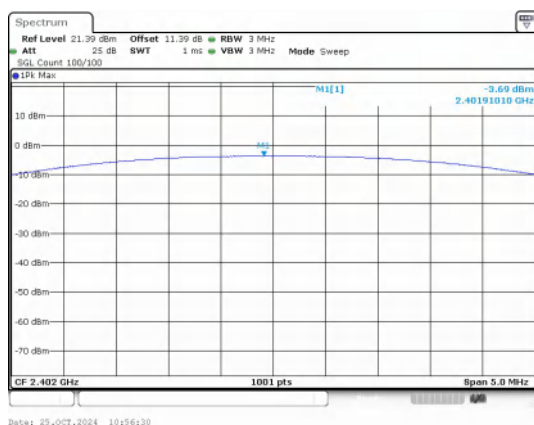
BLE 2M_Channel 39

3) Conducted Output Power

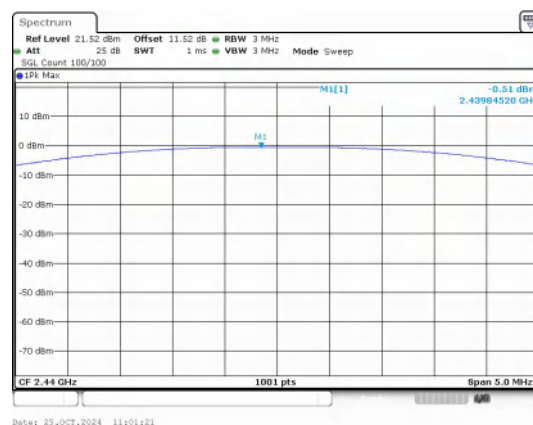
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	-3.69	0.43	≤30	PASS
	19	-0.51	0.89	≤30	PASS
	39	-0.98	0.80	≤30	PASS
BLE 2M	0	-2.90	0.51	≤30	PASS
	19	-0.10	0.98	≤30	PASS
	39	-0.81	0.83	≤30	PASS

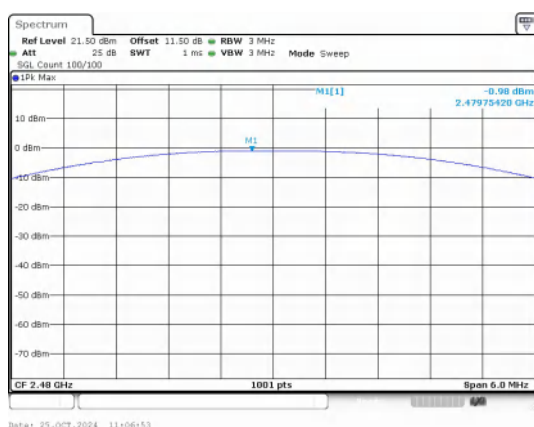
Test Graphs



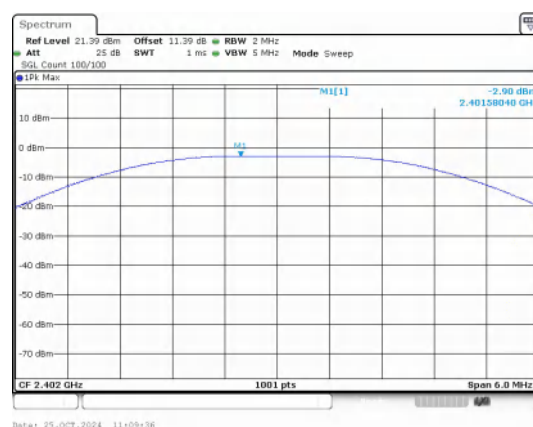
Peak Output Power
BLE 1M_Channel 0



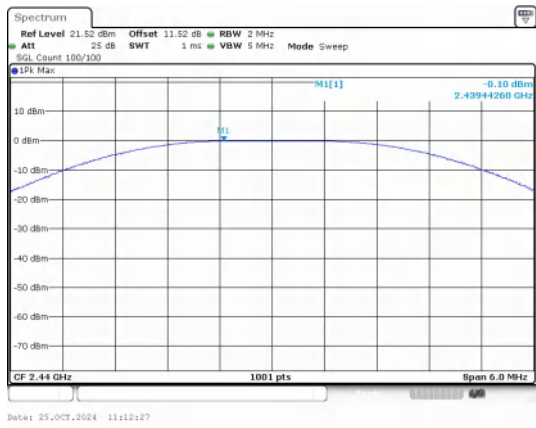
Peak Output Power
BLE 1M_Channel 19



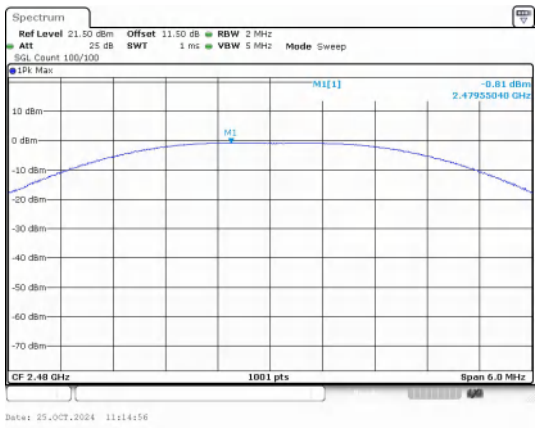
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



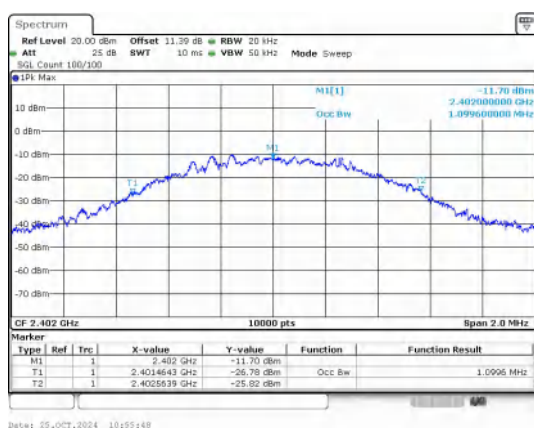
Peak Output Power
BLE 2M_Channel 39

4) 99% Bandwidth

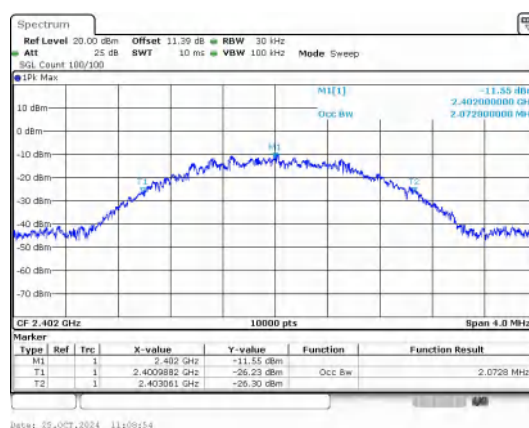
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0996
BLE 1M	19	2440	1.1194
BLE 1M	39	2480	1.1234
BLE 2M	0	2402	2.0728
BLE 2M	19	2440	2.0792
BLE 2M	39	2480	2.0792

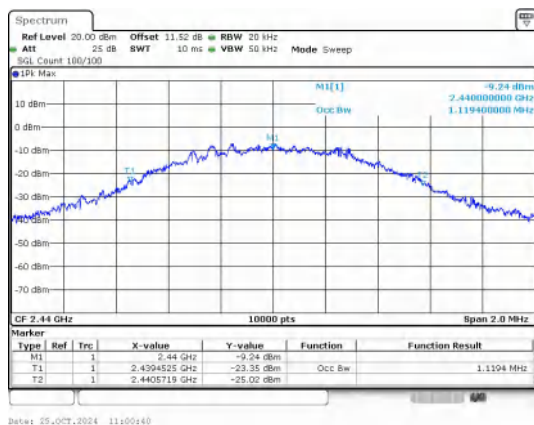
Test Graphs



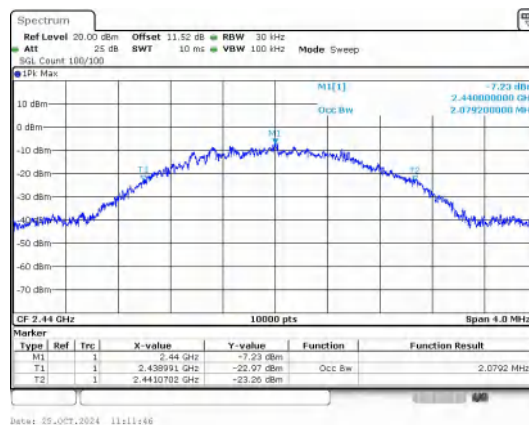
BLE 1M_Channel 0



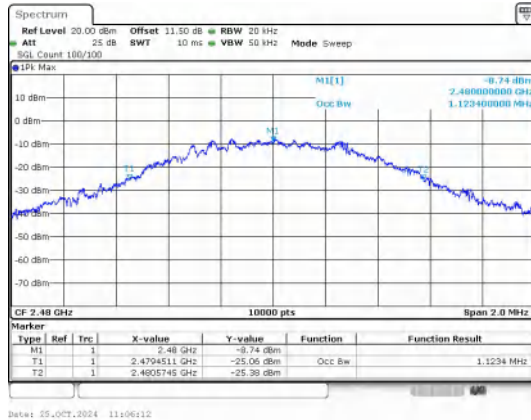
BLE 2M_Channel 0



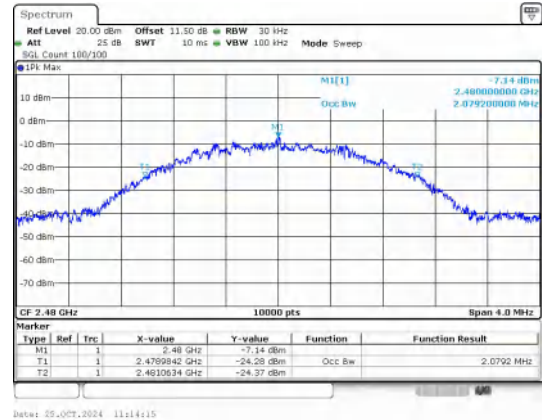
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



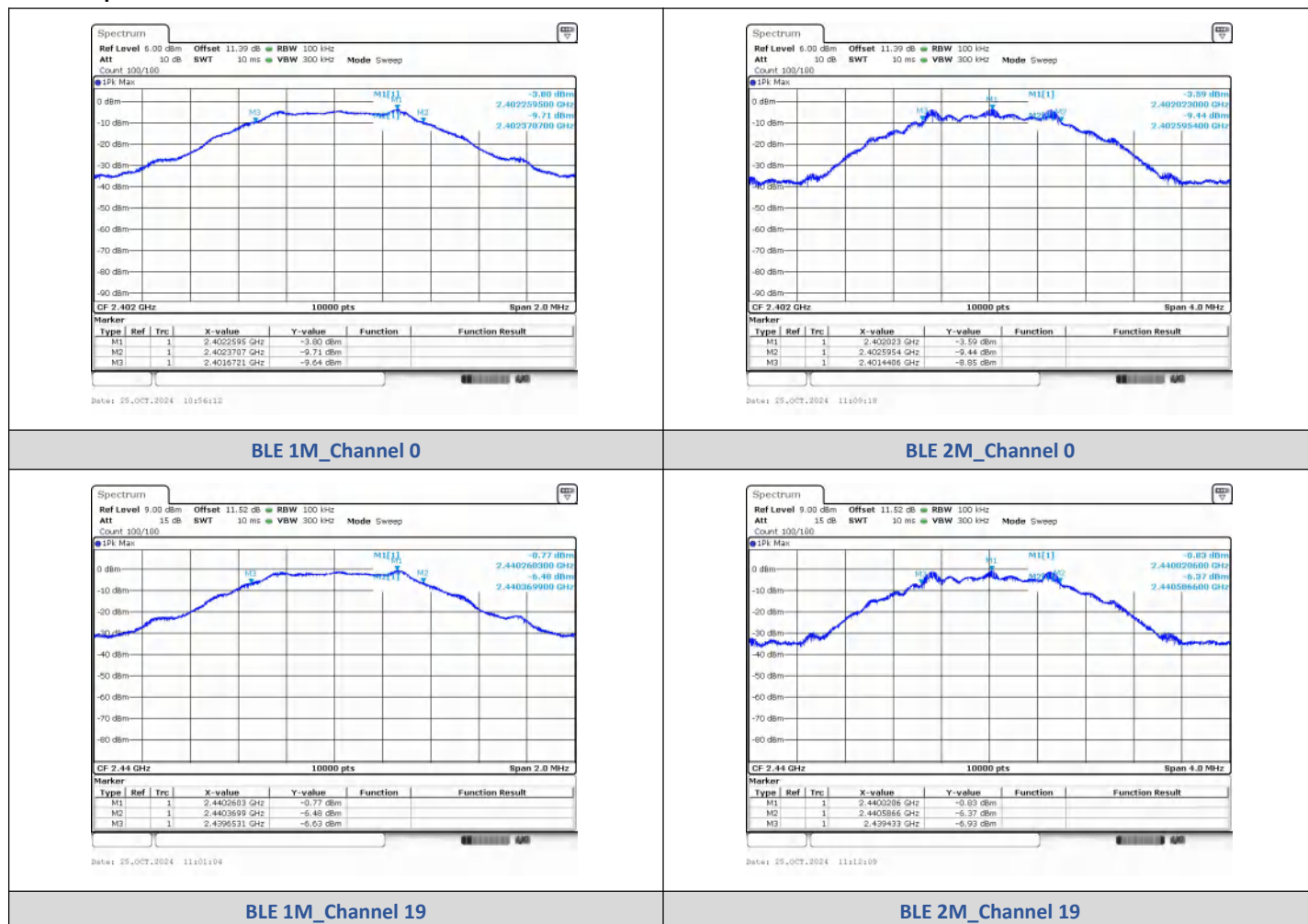
BLE 2M_Channel 39

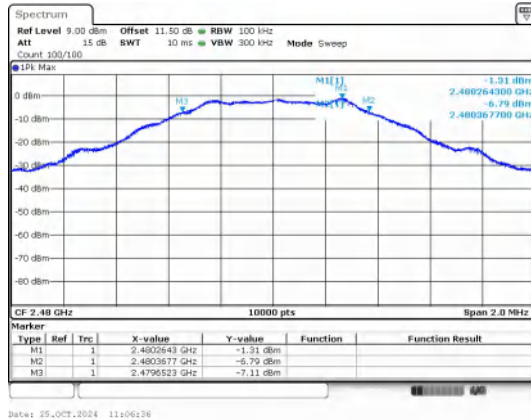
5) 6dB Bandwidth

Test Result

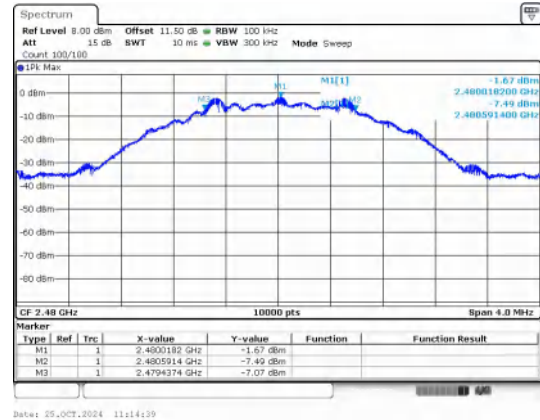
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.7000	≥0.5	PASS
	19	2440	0.7200		PASS
	39	2480	0.7200		PASS
BLE 2M	0	2402	1.160		PASS
	19	2440	1.160		PASS
	39	2480	1.150		PASS

Test Graphs





BLE 1M_Channel 39



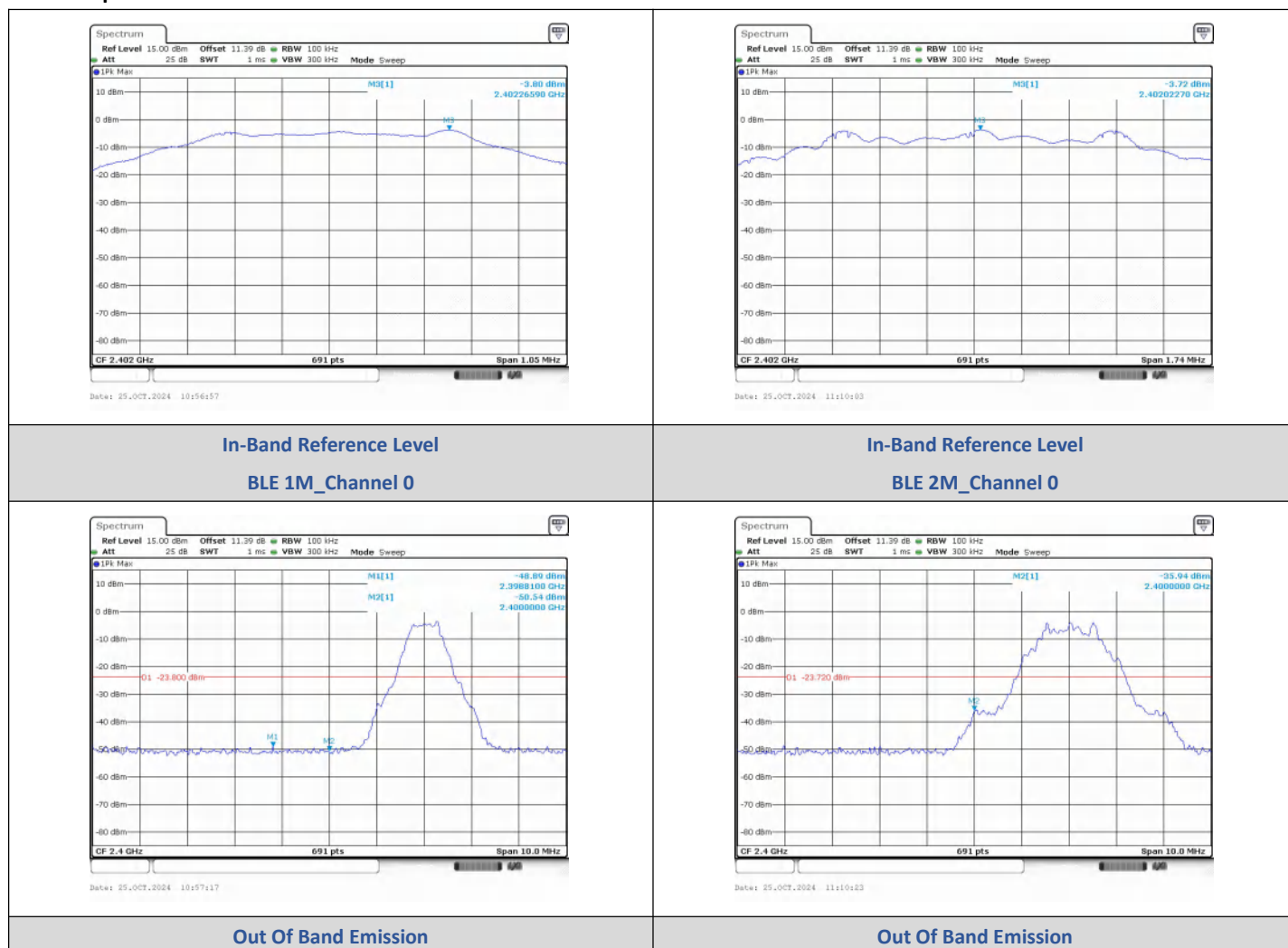
BLE 2M_Channel 39

6) Conducted Out Of Band Emission

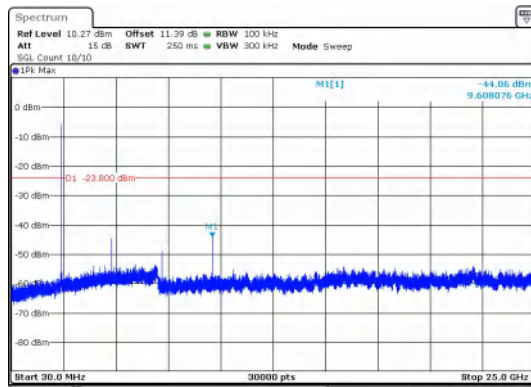
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.81	-48.894	-23.8	-25.094	PASS
		2400.00	-50.538	-23.8	-26.738	PASS
		9608.10	-44.062	-23.8	-20.262	PASS
	19	9760.39	-43.876	-20.68	-23.196	PASS
		2483.50	-50.312	-21.21	-29.102	PASS
		9920.20	-43.070	-21.21	-21.860	PASS
BLE 2M	0	2400.00	-35.935	-23.72	-12.215	PASS
		9608.08	-44.451	-23.72	-20.731	PASS
	19	9760.39	-43.427	-20.86	-22.567	PASS
		2483.50	-48.095	-21.59	-26.505	PASS
	39	9920.20	-41.958	-21.59	-20.368	PASS

Test Graphs

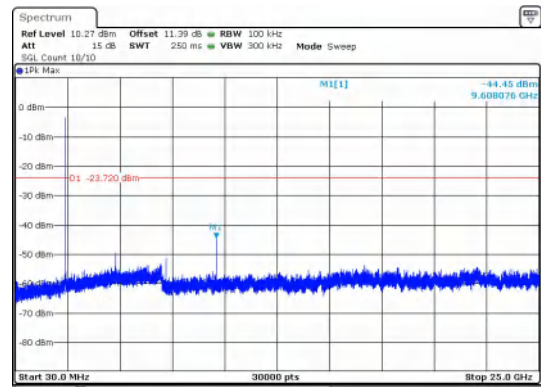


BLE 1M_Channel 0



Date: 25_OCT_2024 10:57:29

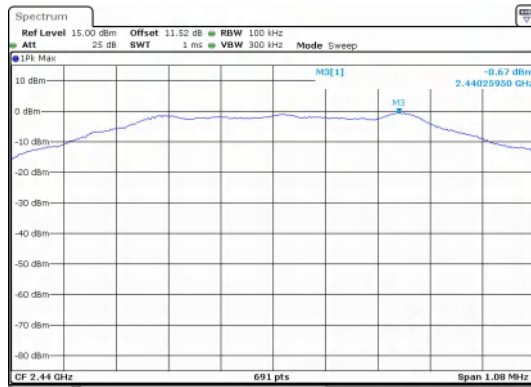
BLE 2M_Channel 0



Date: 25_OCT_2024 11:10:45

30.0 MHz - 25000.0 MHz

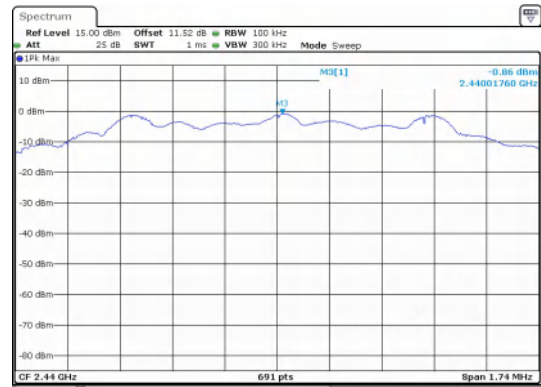
BLE 1M_Channel 0



Date: 25_OCT_2024 11:01:49

30.0 MHz - 25000.0 MHz

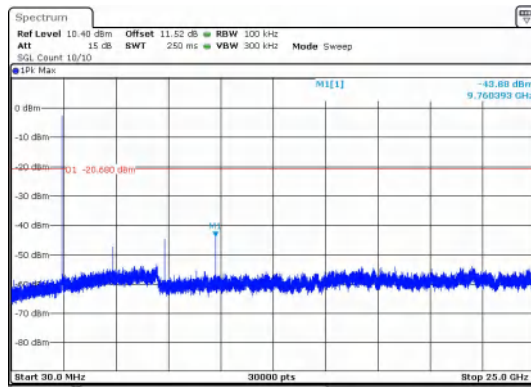
BLE 2M_Channel 0



Date: 25_OCT_2024 11:12:55

In-Band Reference Level

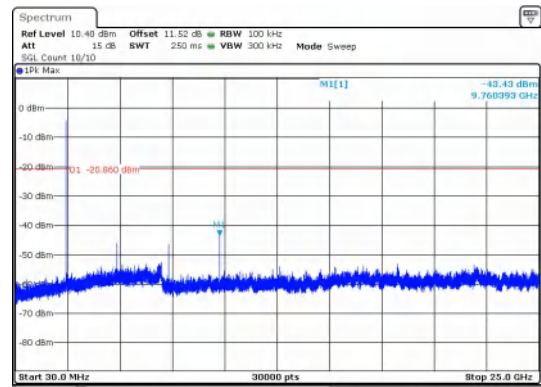
BLE 1M_Channel 19



Date: 25_OCT_2024 11:02:12

In-Band Reference Level

BLE 2M_Channel 19



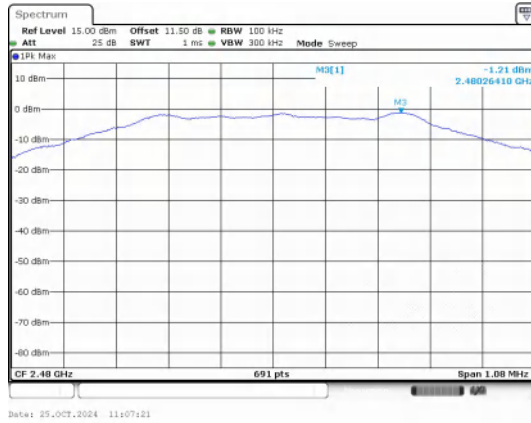
Date: 25_OCT_2024 11:13:19

30.0 MHz - 25000.0 MHz

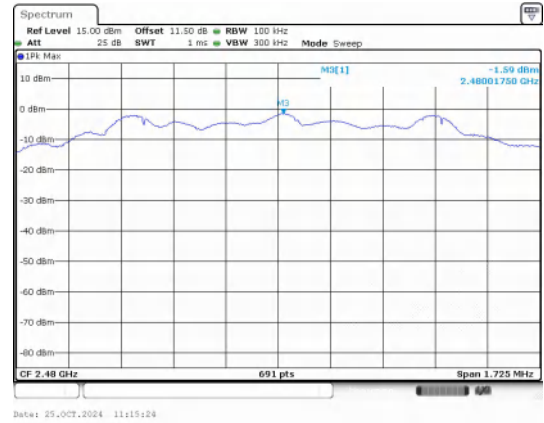
BLE 1M_Channel 19

30.0 MHz - 25000.0 MHz

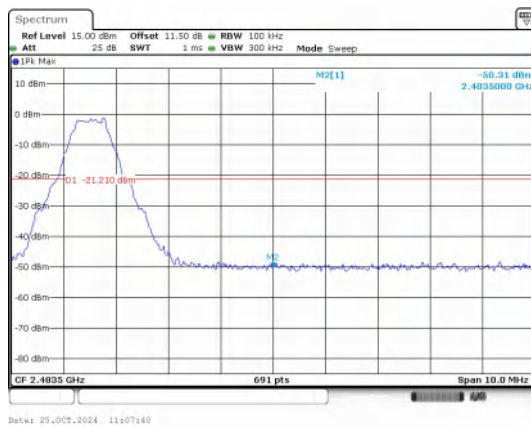
BLE 2M_Channel 19



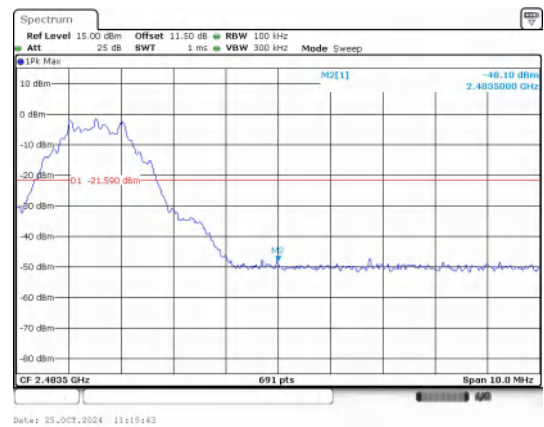
In-Band Reference Level
BLE 1M_Channel 39



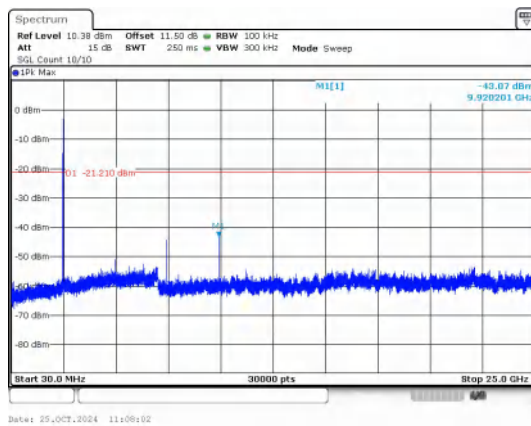
In-Band Reference Level
BLE 2M_Channel 39



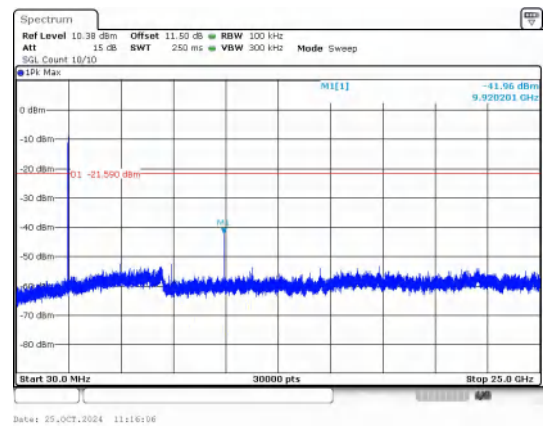
Out Of Band Emission
BLE 1M_Channel 39



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