

Appendix B

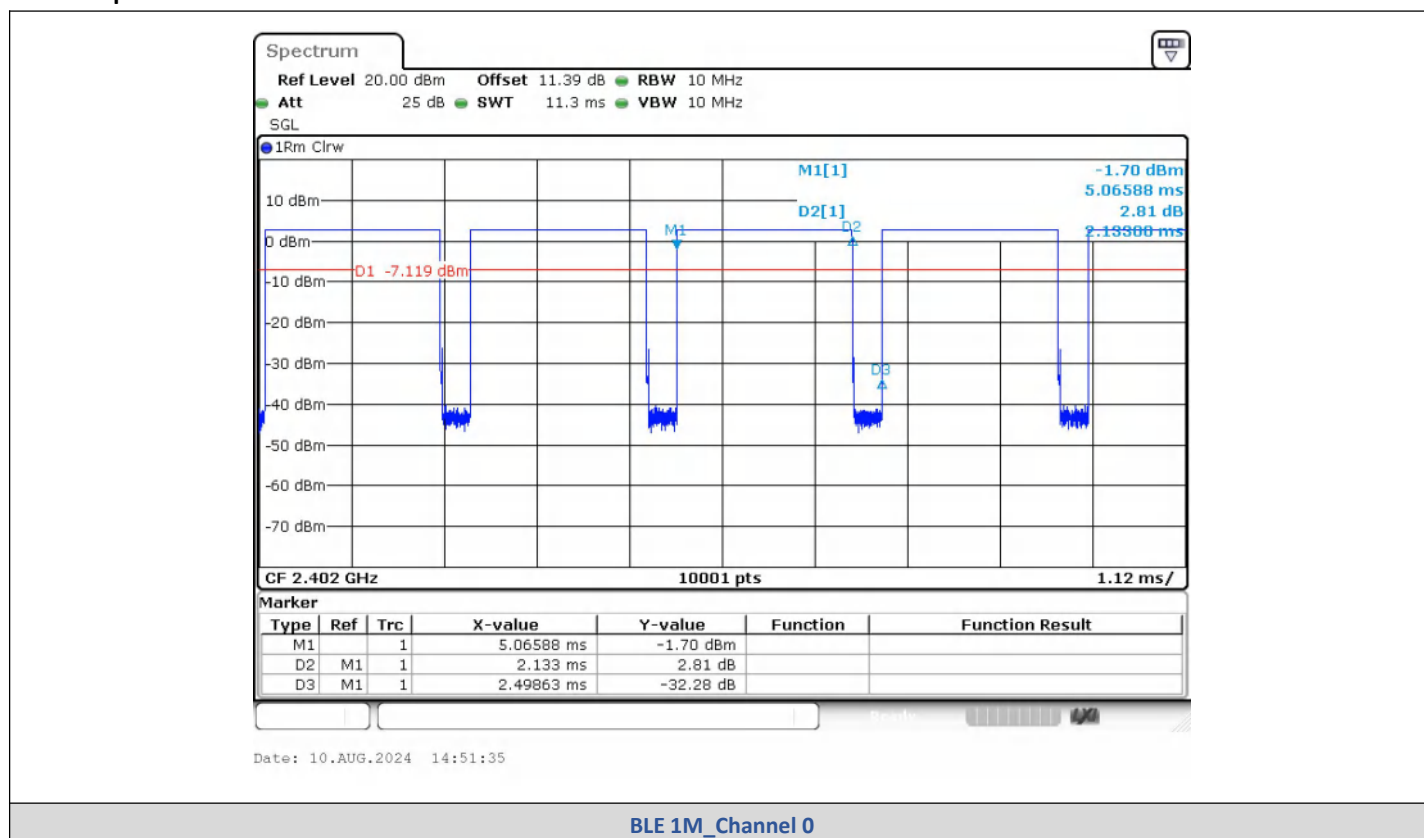
Report No.:	CISRR24080906302
FCC ID:	2A4KD-K25
Product Name:	Helmet headset
Model No.:	K25
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

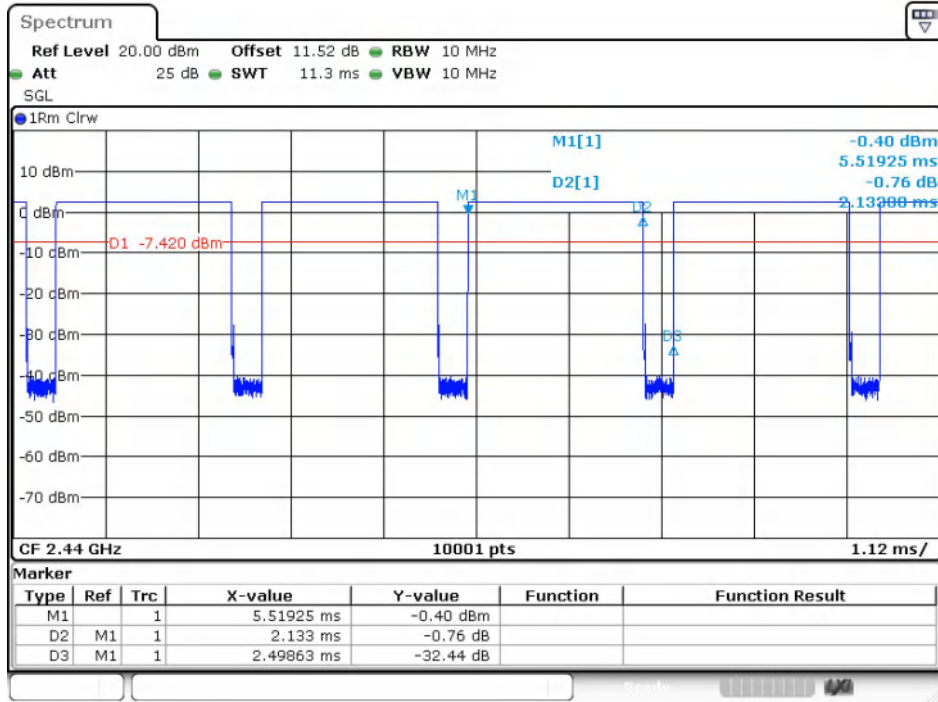
1) Duty Cycle

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	2.133	2.499	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	2.500	43.29	0.4329	3.6361	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

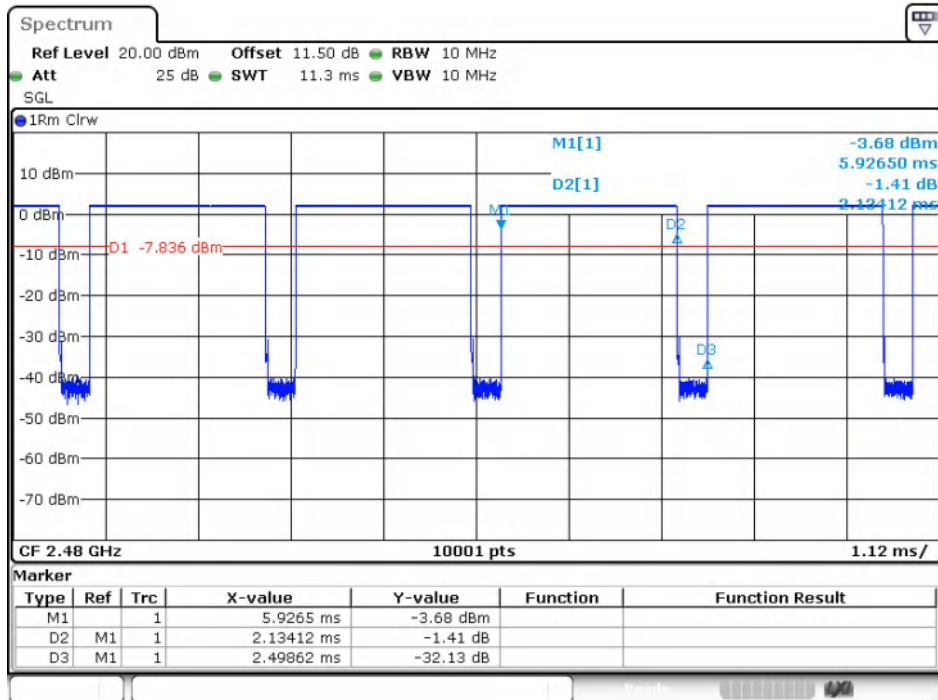
Test Graphs





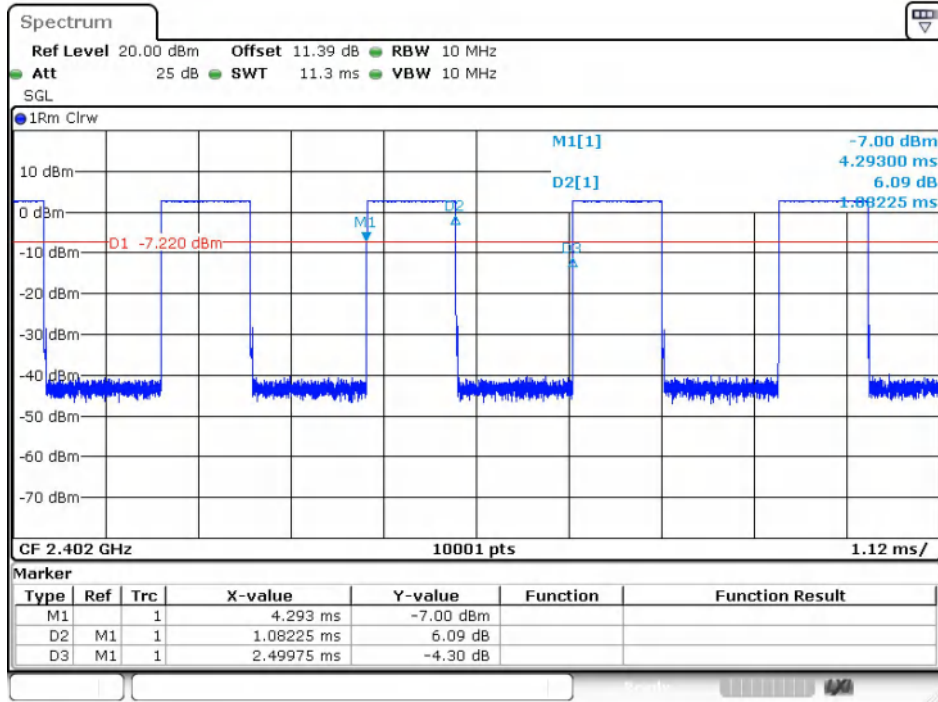
Date: 10.AUG.2024 14:54:34

BLE 1M_Channel 19



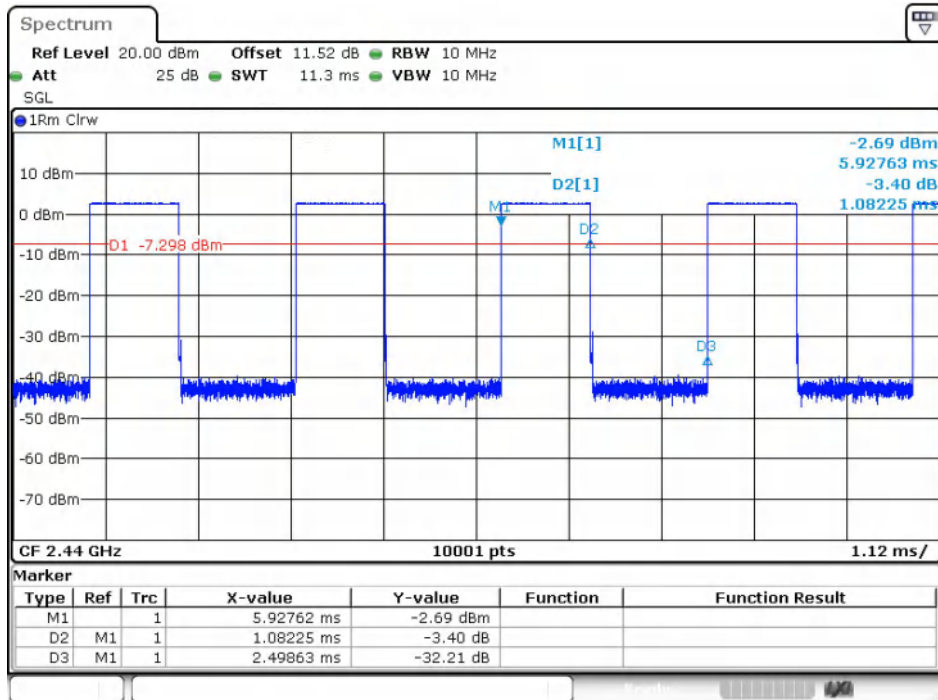
Date: 10.AUG.2024 14:57:00

BLE 1M_Channel 39



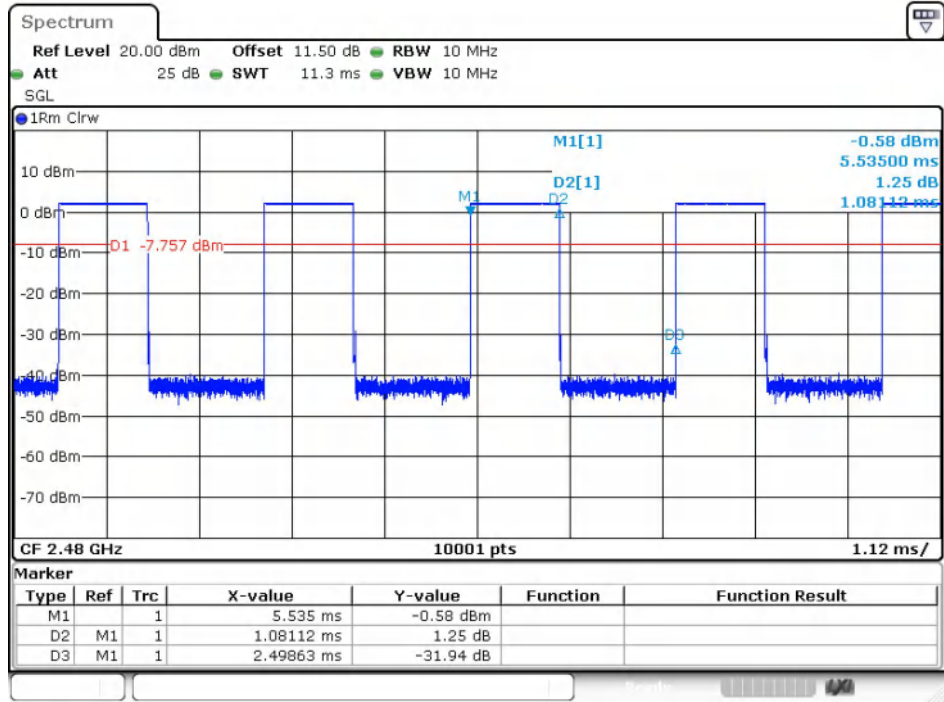
Date: 10.AUG.2024 14:59:42

BLE 2M_Channel 0



Date: 10.AUG.2024 15:02:29

BLE 2M_Channel 19



Date: 10.AUG.2024 15:05:01

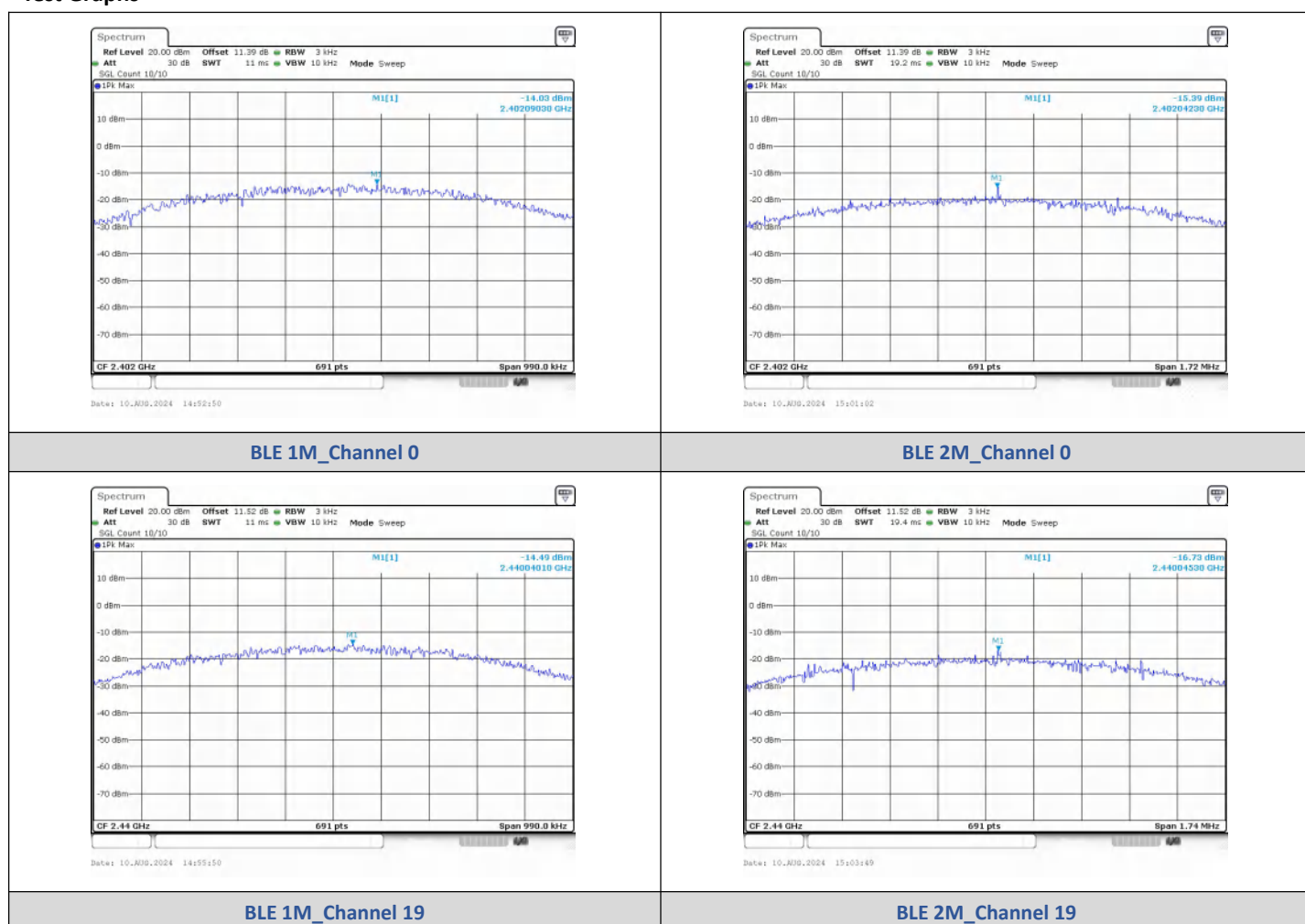
BLE 2M_Channel 39

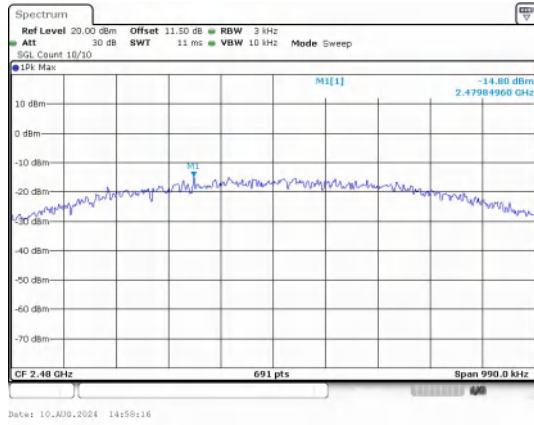
2) Power Spectral Density

Test Result

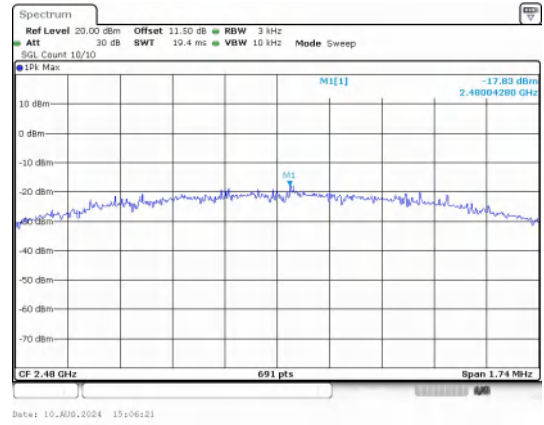
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-14.03	≤8	PASS
BLE 1M	19	-14.49	≤8	PASS
BLE 1M	39	-14.81	≤8	PASS
BLE 2M	0	-15.39	≤8	PASS
BLE 2M	19	-16.73	≤8	PASS
BLE 2M	39	-17.83	≤8	PASS

Test Graphs





BLE 1M_Channel 39



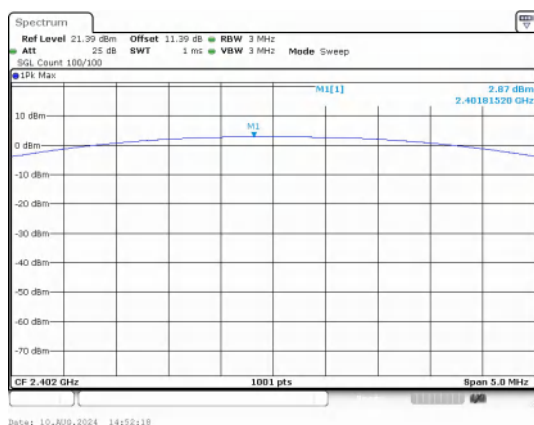
BLE 2M_Channel 39

3) Conducted Output Power

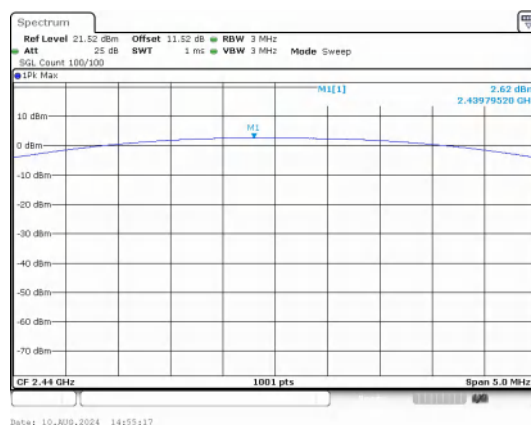
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	2.87	1.94	≤30	PASS
	19	2.62	1.83	≤30	PASS
	39	2.14	1.64	≤30	PASS
BLE 2M	0	2.86	1.93	≤30	PASS
	19	2.74	1.88	≤30	PASS
	39	2.26	1.68	≤30	PASS

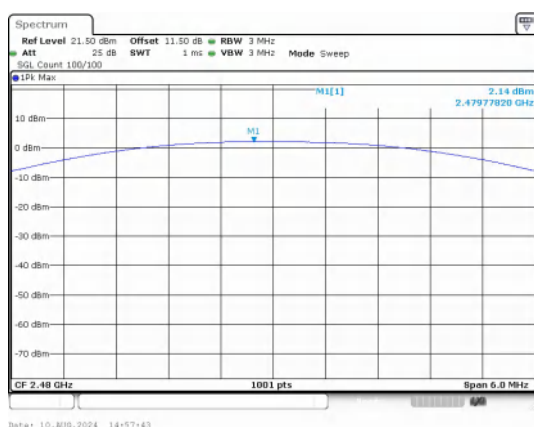
Test Graphs



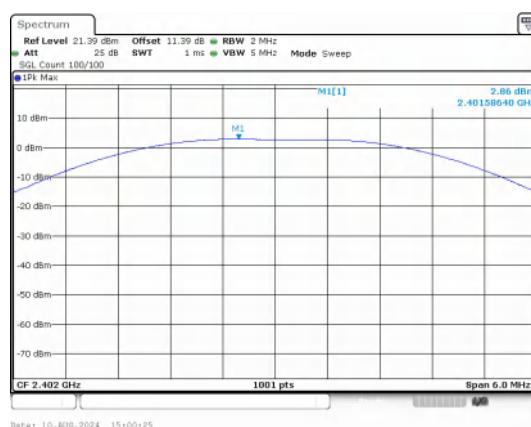
Peak Output Power
BLE 1M_Channel 0



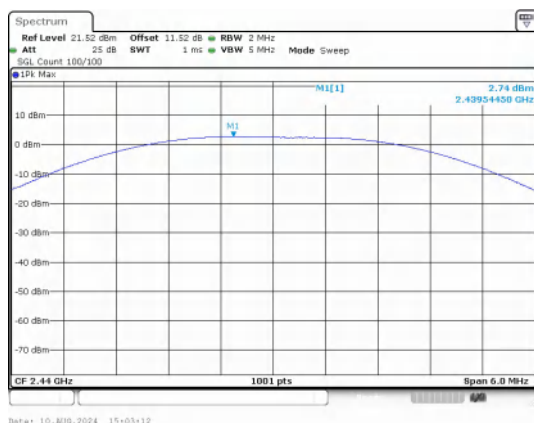
Peak Output Power
BLE 1M_Channel 19



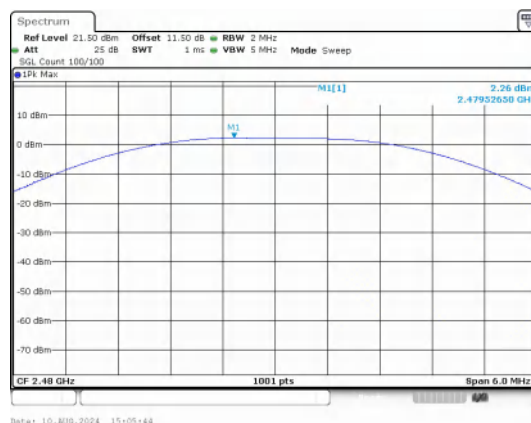
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



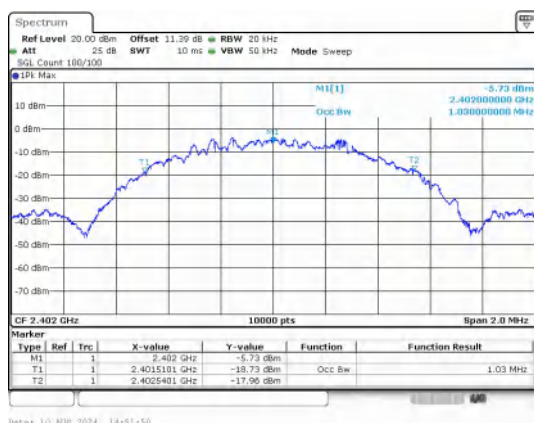
Peak Output Power
BLE 2M_Channel 39

4) 99% Bandwidth

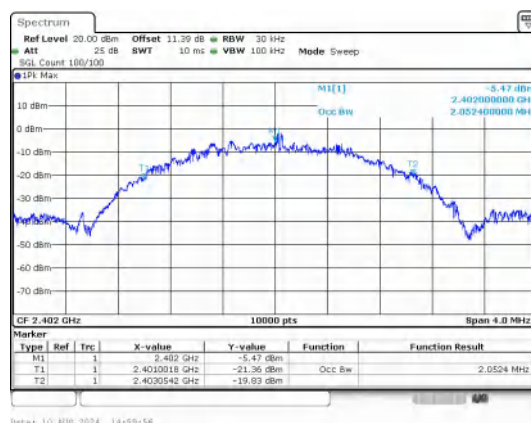
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0300
BLE 1M	19	2440	1.0324
BLE 1M	39	2480	1.0334
BLE 2M	0	2402	2.0524
BLE 2M	19	2440	2.0512
BLE 2M	39	2480	2.0508

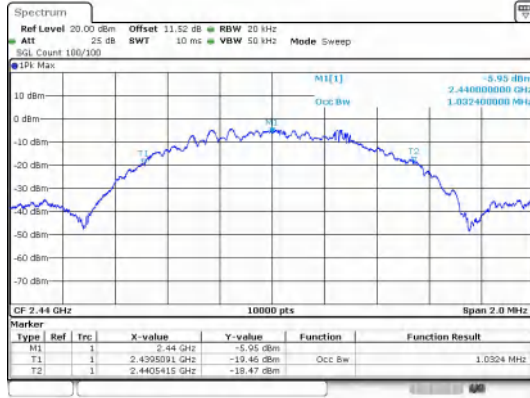
Test Graphs



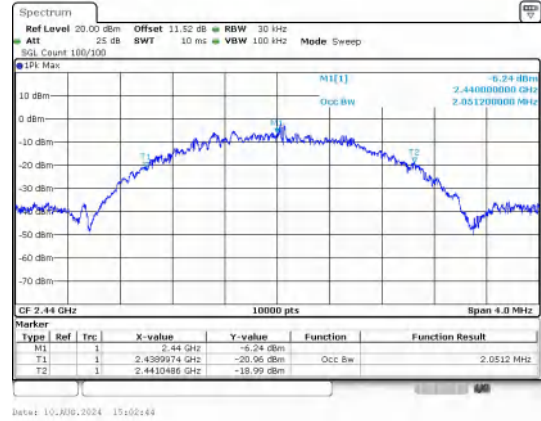
BLE 1M_Channel 0



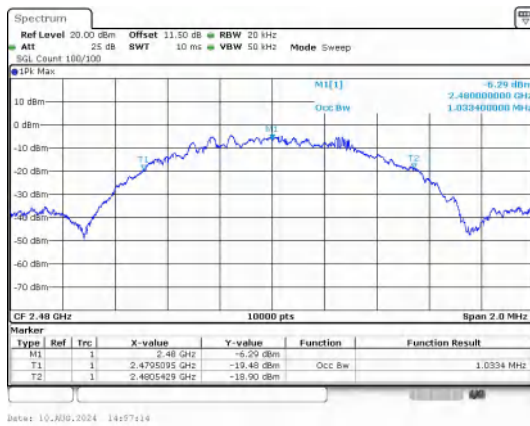
BLE 2M_Channel 0



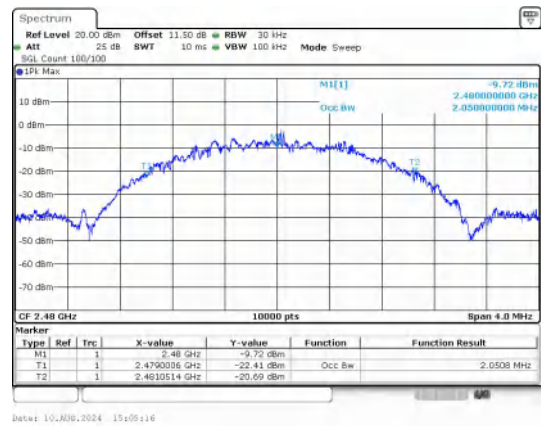
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



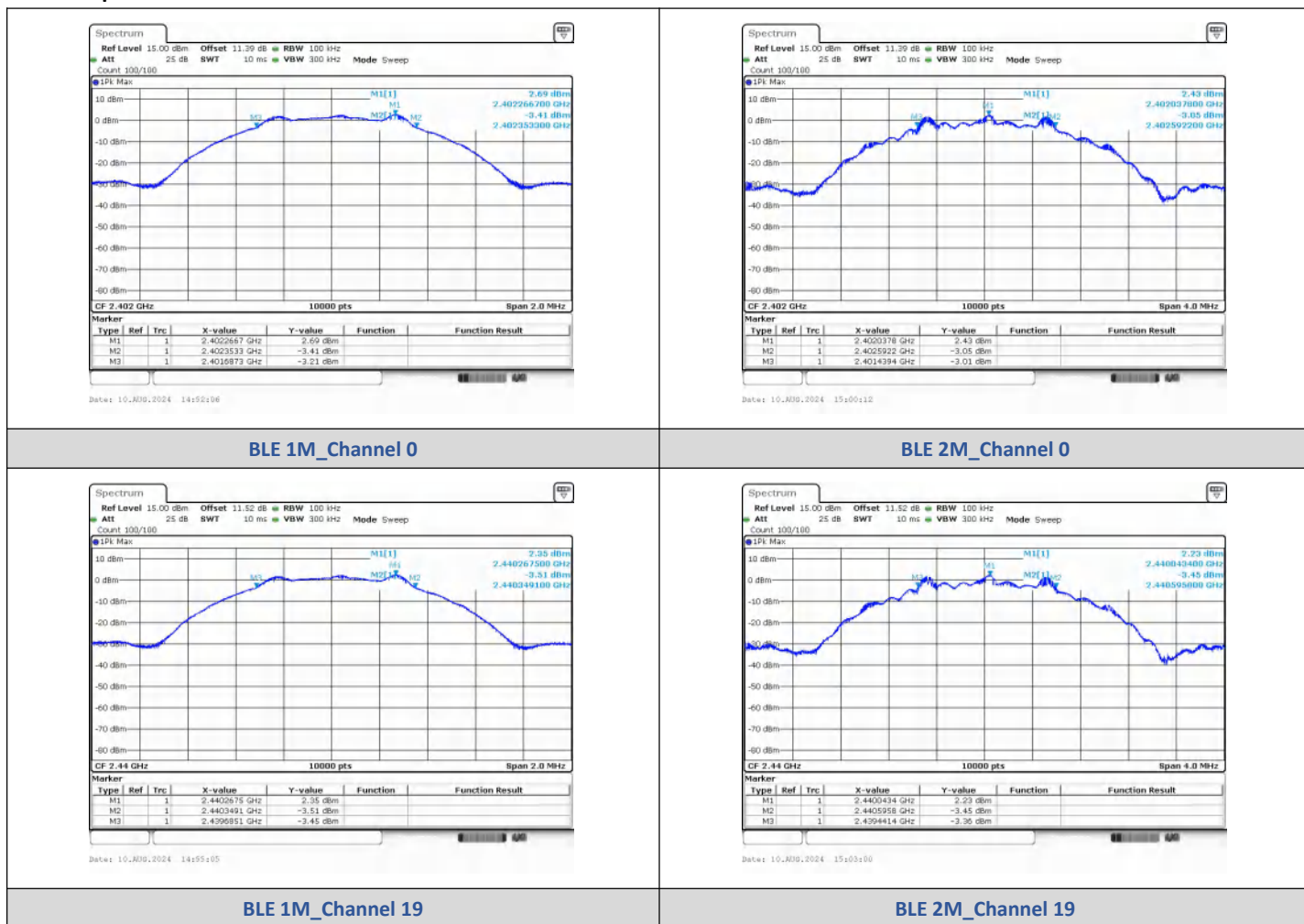
BLE 2M_Channel 39

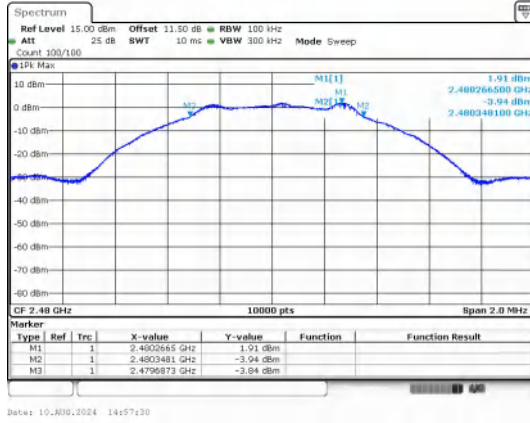
5) 6dB Bandwidth

Test Result

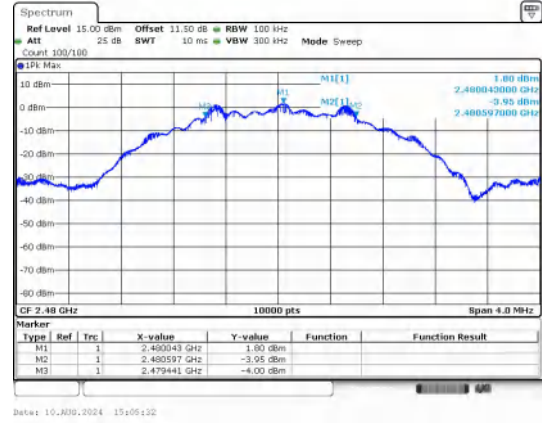
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.150		PASS
	19	2440	1.160		PASS
	39	2480	1.160		PASS

Test Graphs





BLE 1M_Channel 39



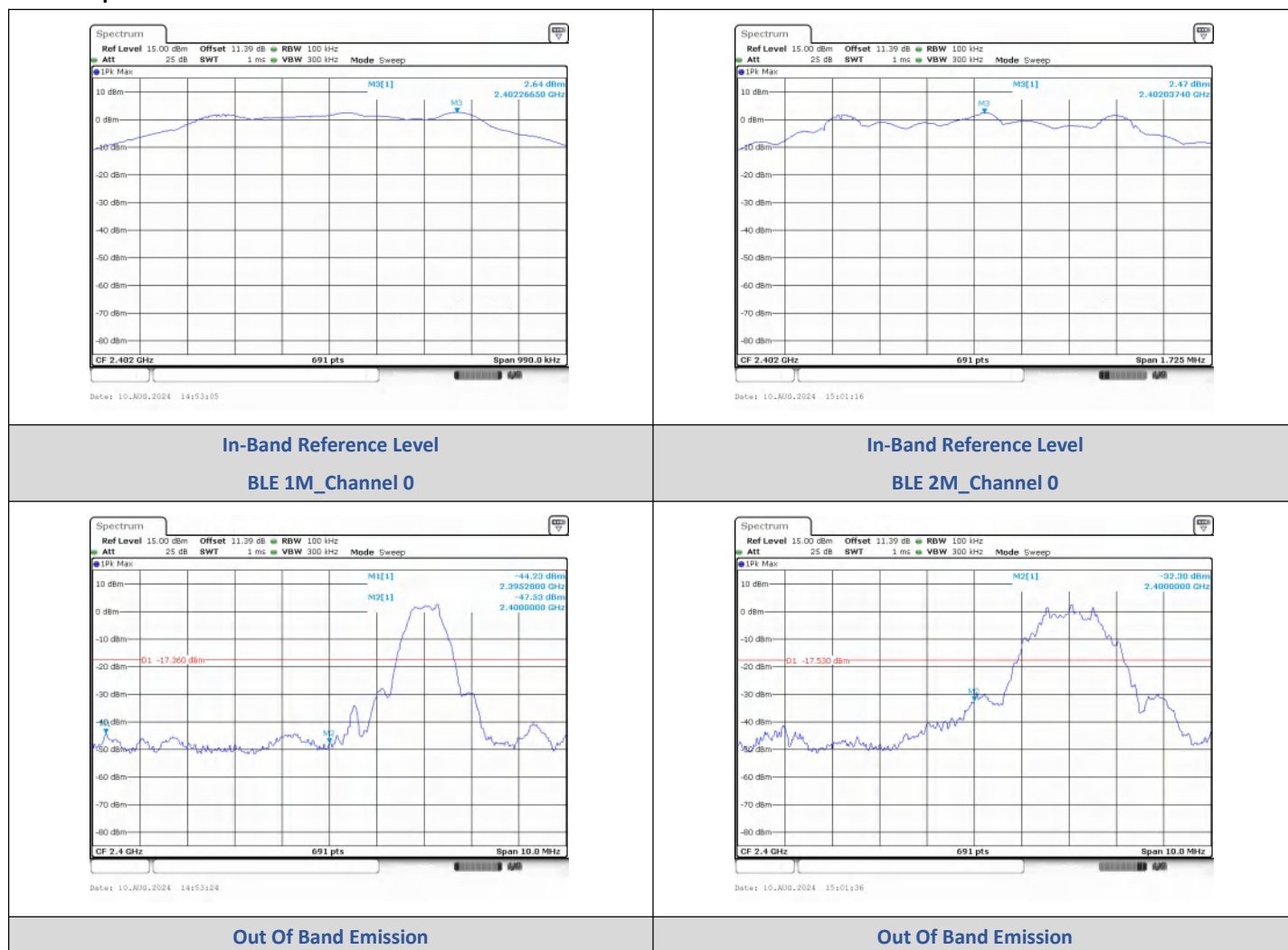
BLE 2M_Channel 39

6) Conducted Out Of Band Emission

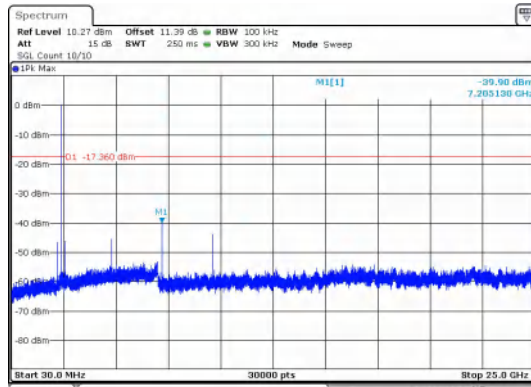
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2395.28	-44.23	-17.36	-26.868	PASS
		2400.00	-47.53	-17.36	-30.171	PASS
		7205.10	-39.90	-17.36	-22.537	PASS
	19	9753.73	-39.77	-17.69	-22.080	PASS
		2483.50	-45.98	-18.15	-27.829	PASS
		9914.37	-38.24	-18.15	-20.087	PASS
BLE 2M	0	2400.00	-32.30	-17.53	-14.770	PASS
		7204.30	-43.12	-17.53	-25.589	PASS
	19	9753.73	-39.72	-17.75	-21.969	PASS
		2483.50	-50.12	-18.2	-31.917	PASS
	39	9914.37	-37.89	-18.2	-19.691	PASS

Test Graphs

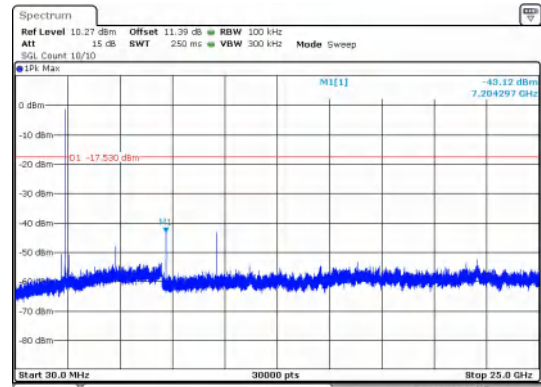


BLE 1M_Channel 0



Date: 10/20/2024 14:53:46

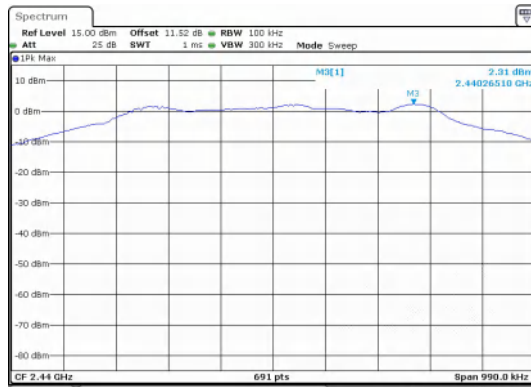
BLE 2M_Channel 0



Date: 10/20/2024 15:01:58

30.0 MHz - 25000.0 MHz

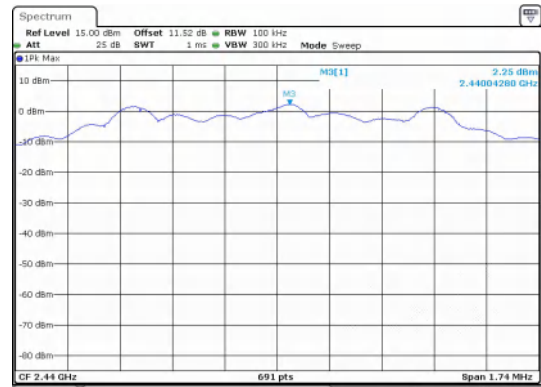
BLE 1M_Channel 0



Date: 10/20/2024 16:04:52

30.0 MHz - 25000.0 MHz

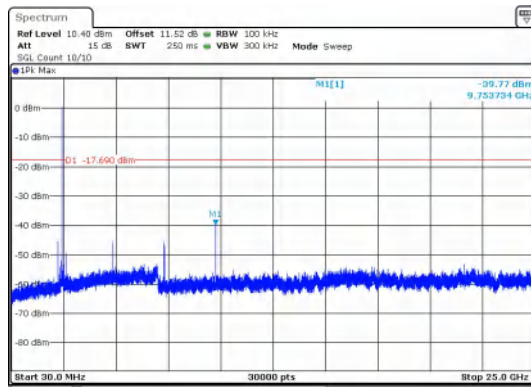
BLE 2M_Channel 0



Date: 10/20/2024 15:04:04

In-Band Reference Level

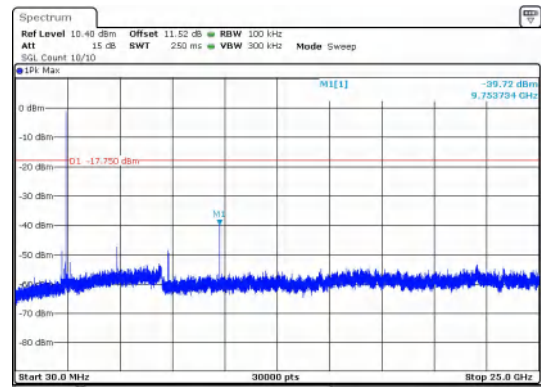
BLE 1M_Channel 19



Date: 10/20/2024 16:05:16

In-Band Reference Level

BLE 2M_Channel 19



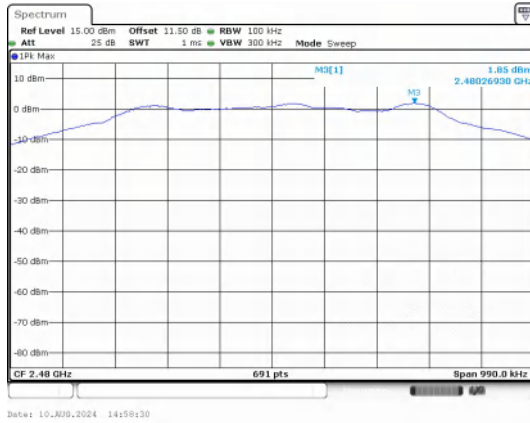
Date: 10/20/2024 15:04:28

30.0 MHz - 25000.0 MHz

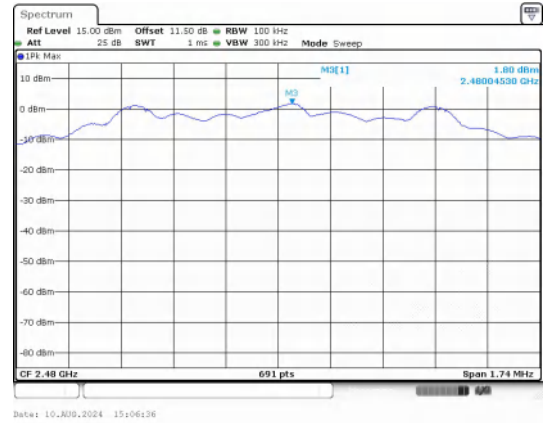
BLE 1M_Channel 19

30.0 MHz - 25000.0 MHz

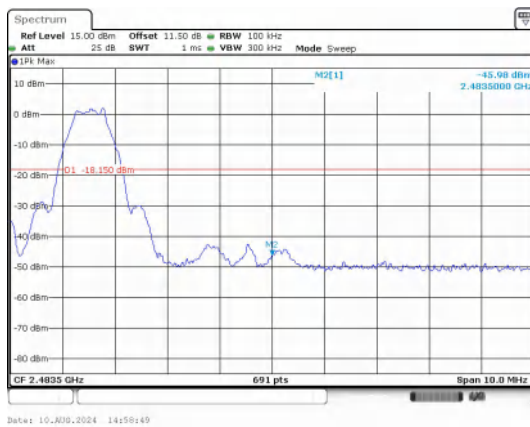
BLE 2M_Channel 19



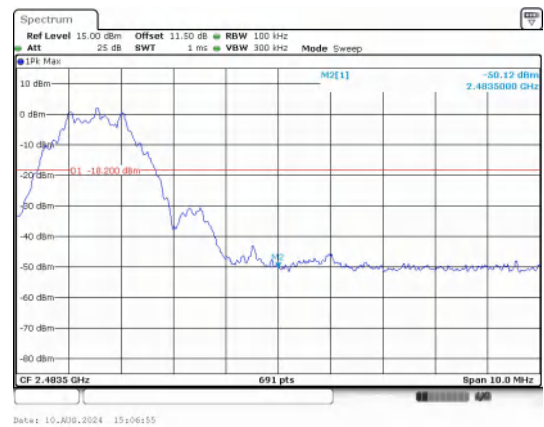
In-Band Reference Level
BLE 1M_Channel 39



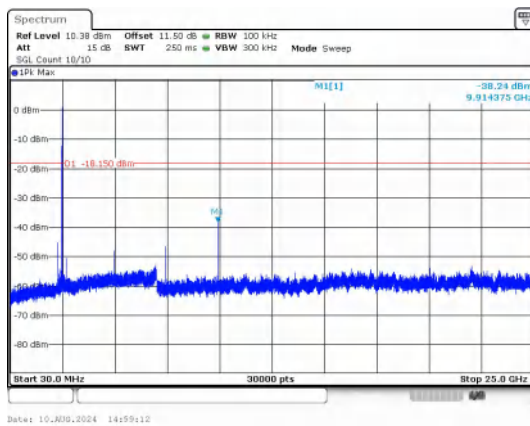
In-Band Reference Level
BLE 2M_Channel 39



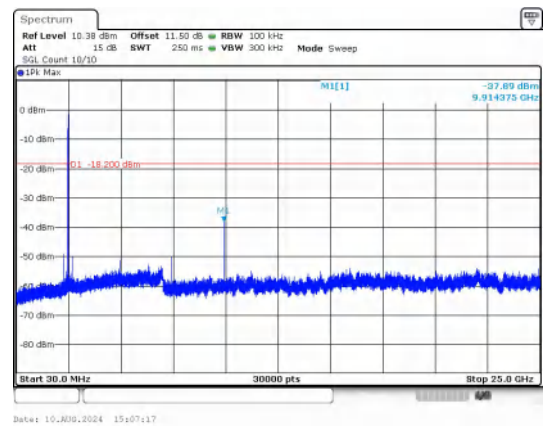
Out Of Band Emission
BLE 1M_Channel 39



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