

Appendix B

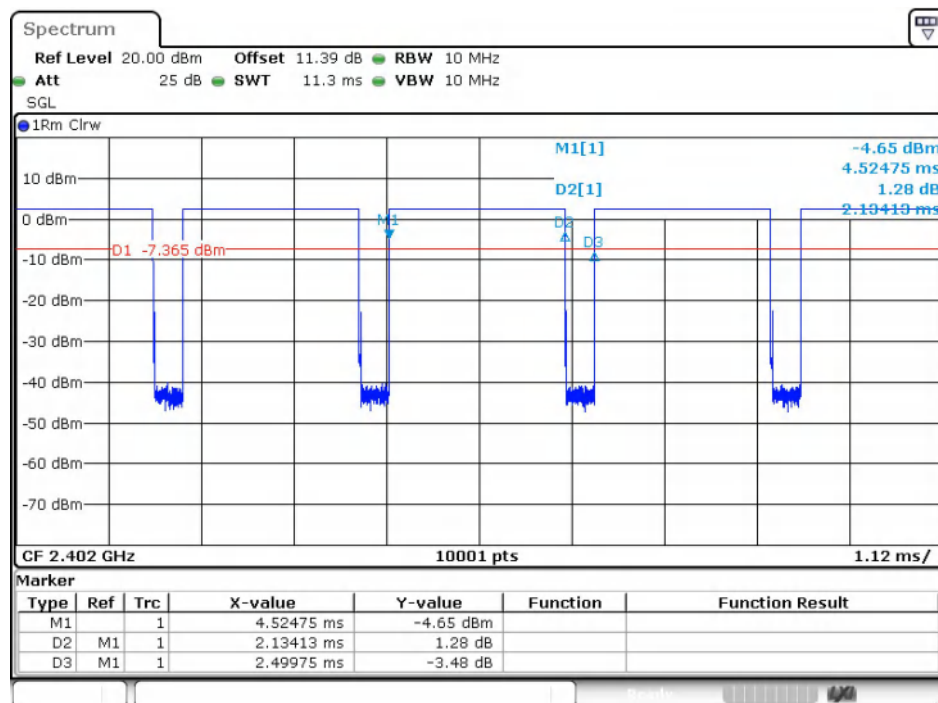
Report No.:	CISRR24081007302
FCC ID:	2BKFO-JHY-81
Product Name:	Wireless Bluetooth earphones
Model No.:	JHY-81
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

1) Duty Cycle

Test Result

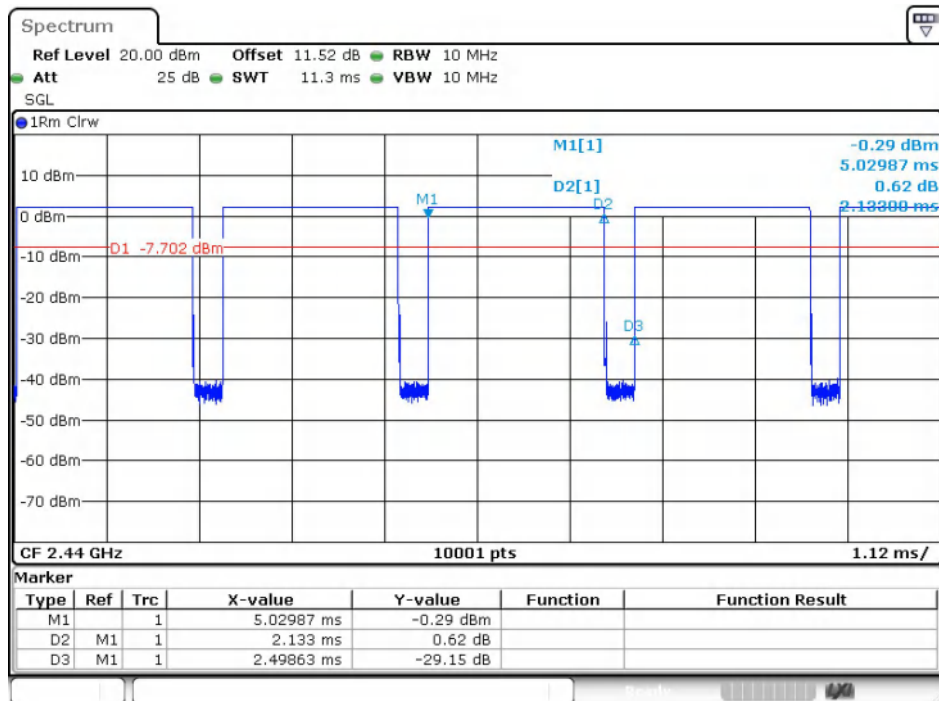
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.134	2.500	85.37	0.8537	0.6869	0.47
	19	2.133	2.499	85.37	0.8537	0.6869	0.47
	39	2.133	2.499	85.37	0.8537	0.6869	0.47
BLE 2M	0	1.081	2.499	43.27	0.4327	3.6381	0.93
	19	1.081	2.499	43.27	0.4327	3.6381	0.93
	39	1.081	2.499	43.27	0.4327	3.6381	0.93

Test Graphs



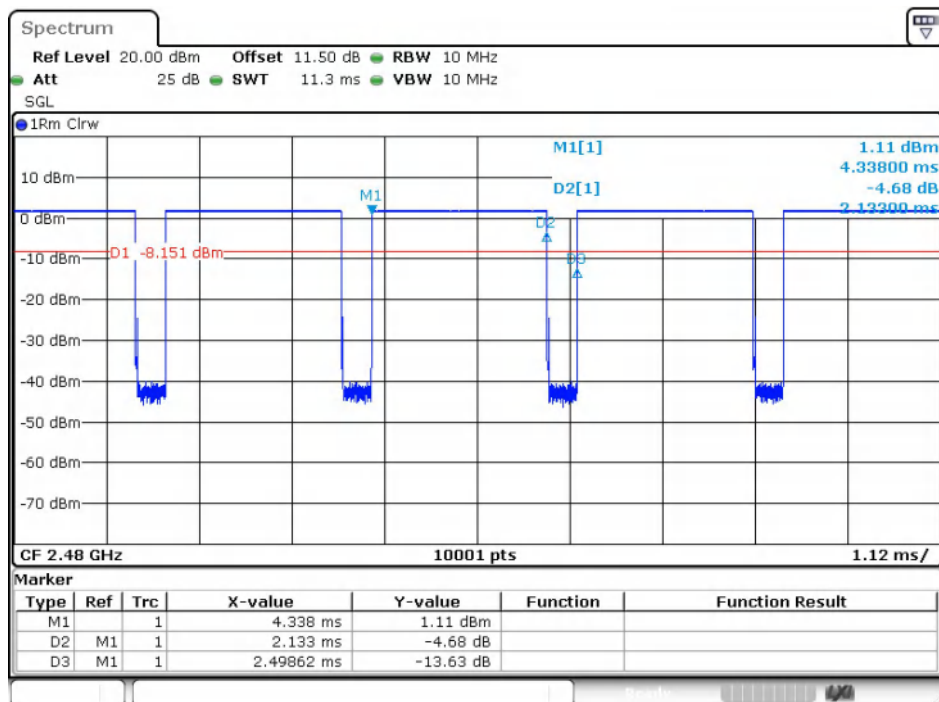
Date: 12.AUG.2024 15:13:03

BLE 1M_Channel 0



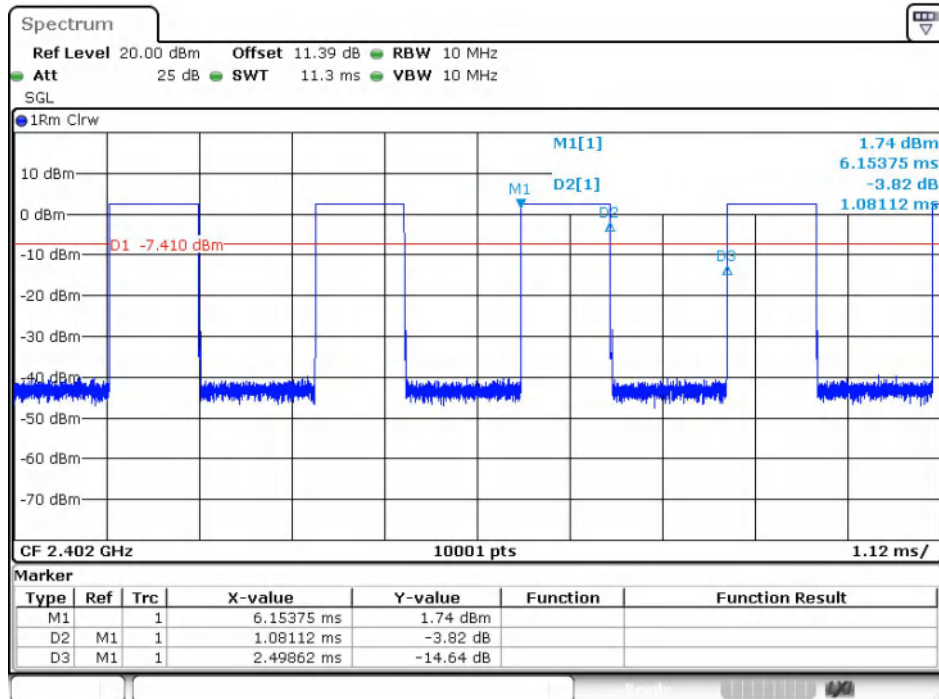
Date: 12.AUG.2024 15:15:44

BLE 1M_Channel 19



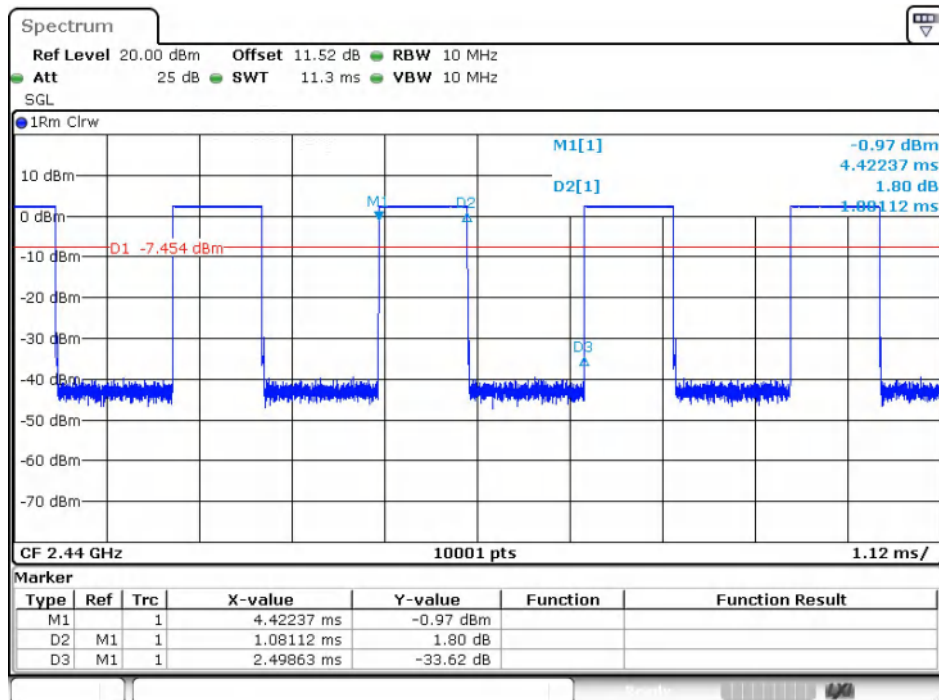
Date: 12.AUG.2024 15:18:15

BLE 1M_Channel 39



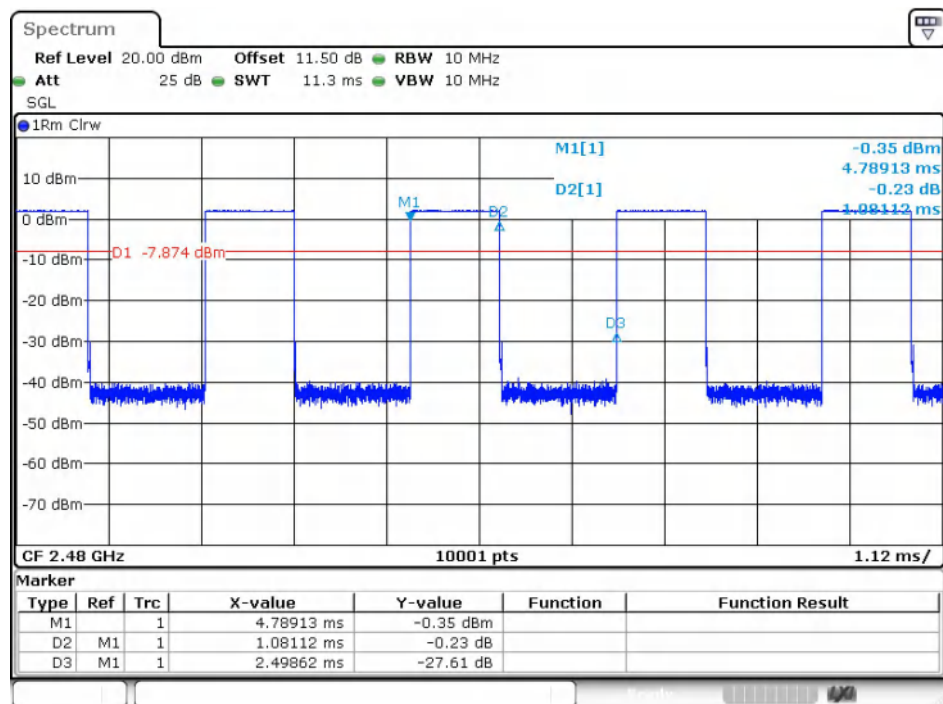
Date: 12.AUG.2024 15:20:55

BLE 2M_Channel 0



Date: 12.AUG.2024 15:23:42

BLE 2M_Channel 19



Date: 12.AUG.2024 15:26:17

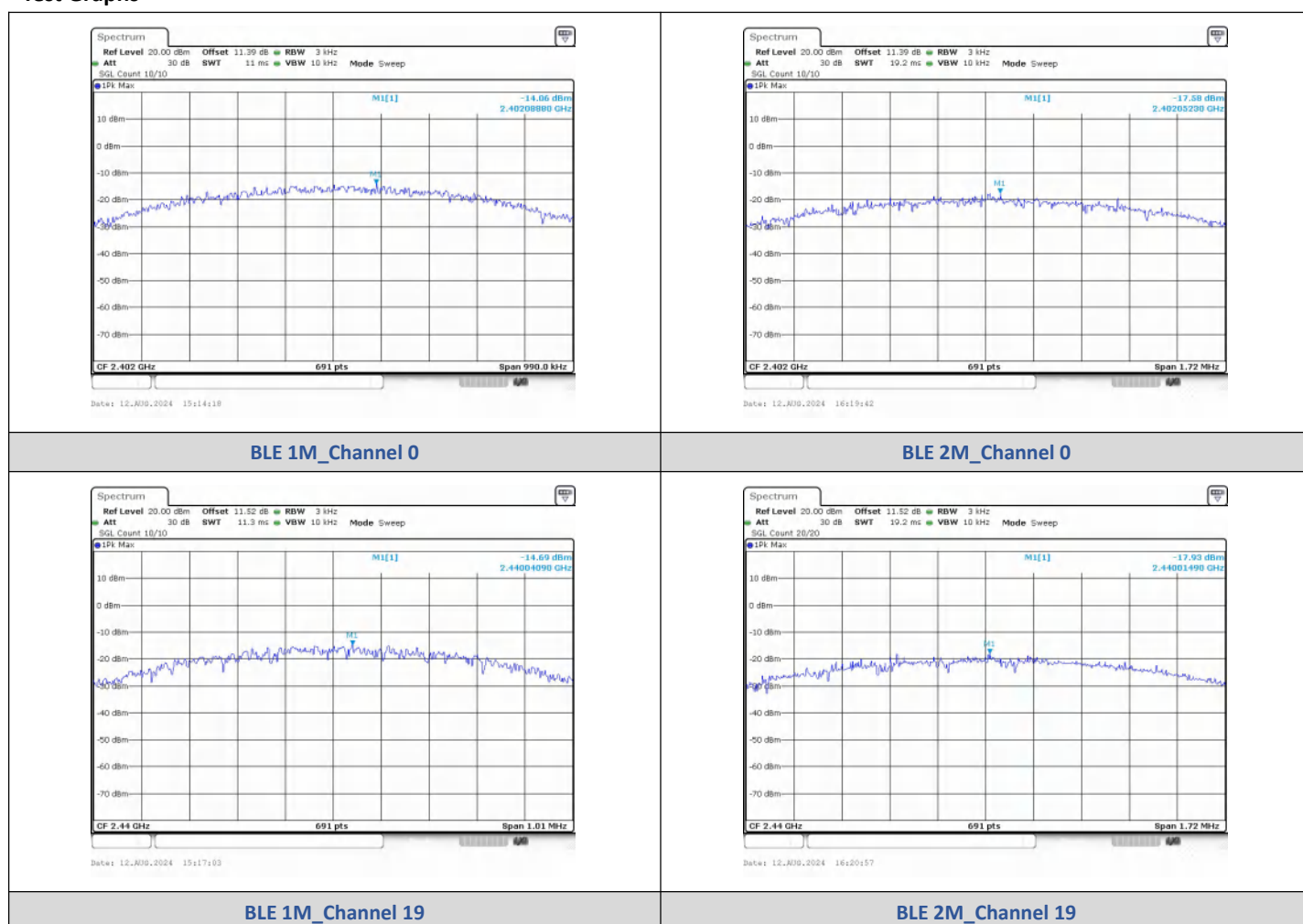
BLE 2M_Channel 39

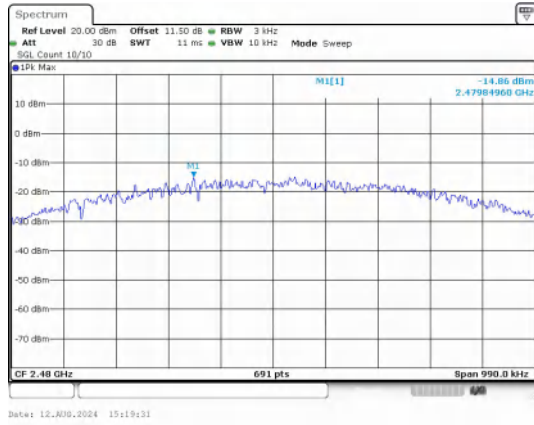
2) Power Spectral Density

Test Result

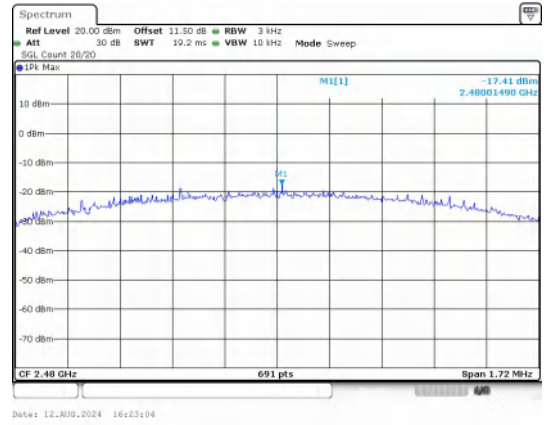
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-14.059	≤8	PASS
BLE 1M	19	-14.688	≤8	PASS
BLE 1M	39	-14.862	≤8	PASS
BLE 2M	0	-17.582	≤8	PASS
BLE 2M	19	-17.935	≤8	PASS
BLE 2M	39	-17.406	≤8	PASS

Test Graphs





BLE 1M_Channel 39



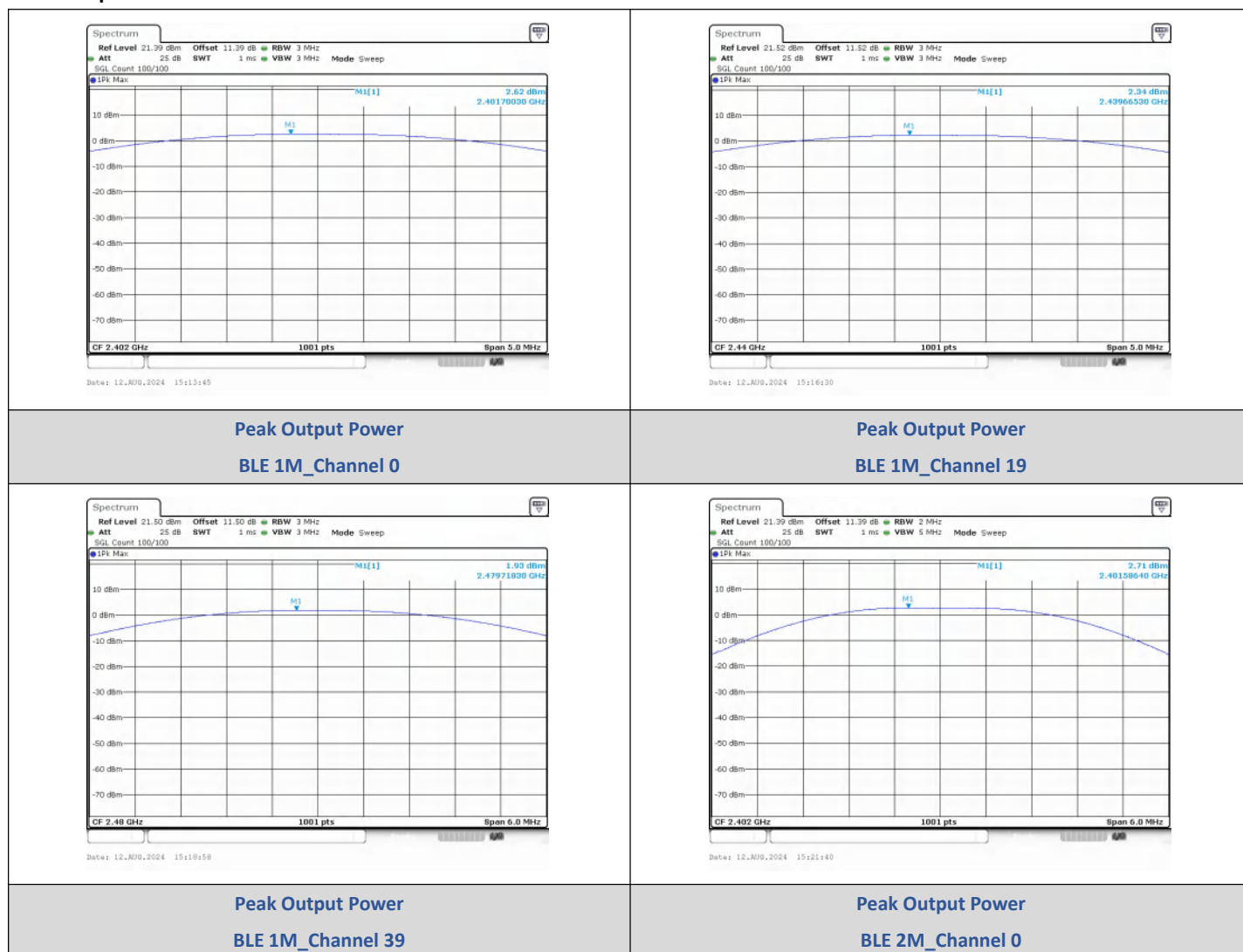
BLE 2M_Channel 39

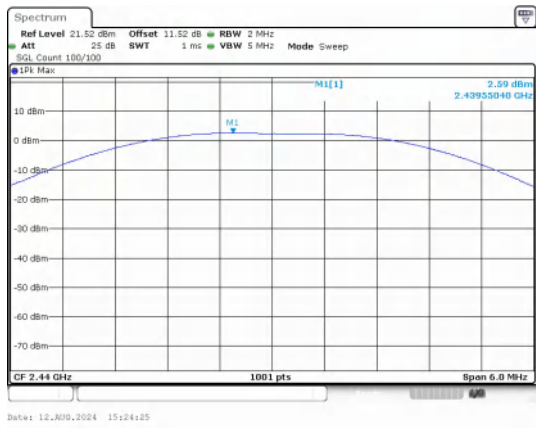
3) Conducted Output Power

Test Result

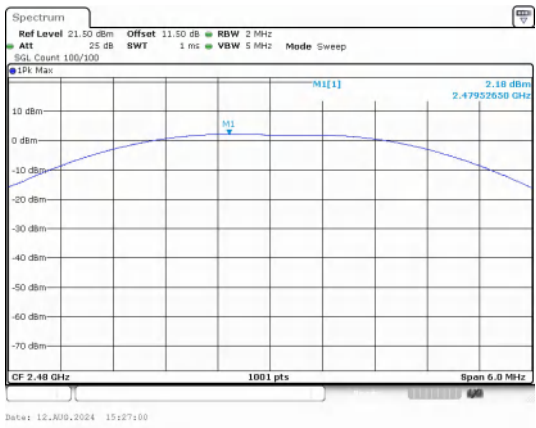
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	2.62	1.83	≤30	PASS
	19	2.34	1.71	≤30	PASS
	39	1.93	1.56	≤30	PASS
BLE 2M	0	2.71	1.87	≤30	PASS
	19	2.59	1.82	≤30	PASS
	39	2.18	1.65	≤30	PASS

Test Graphs





Peak Output Power
BLE 2M_Channel 19



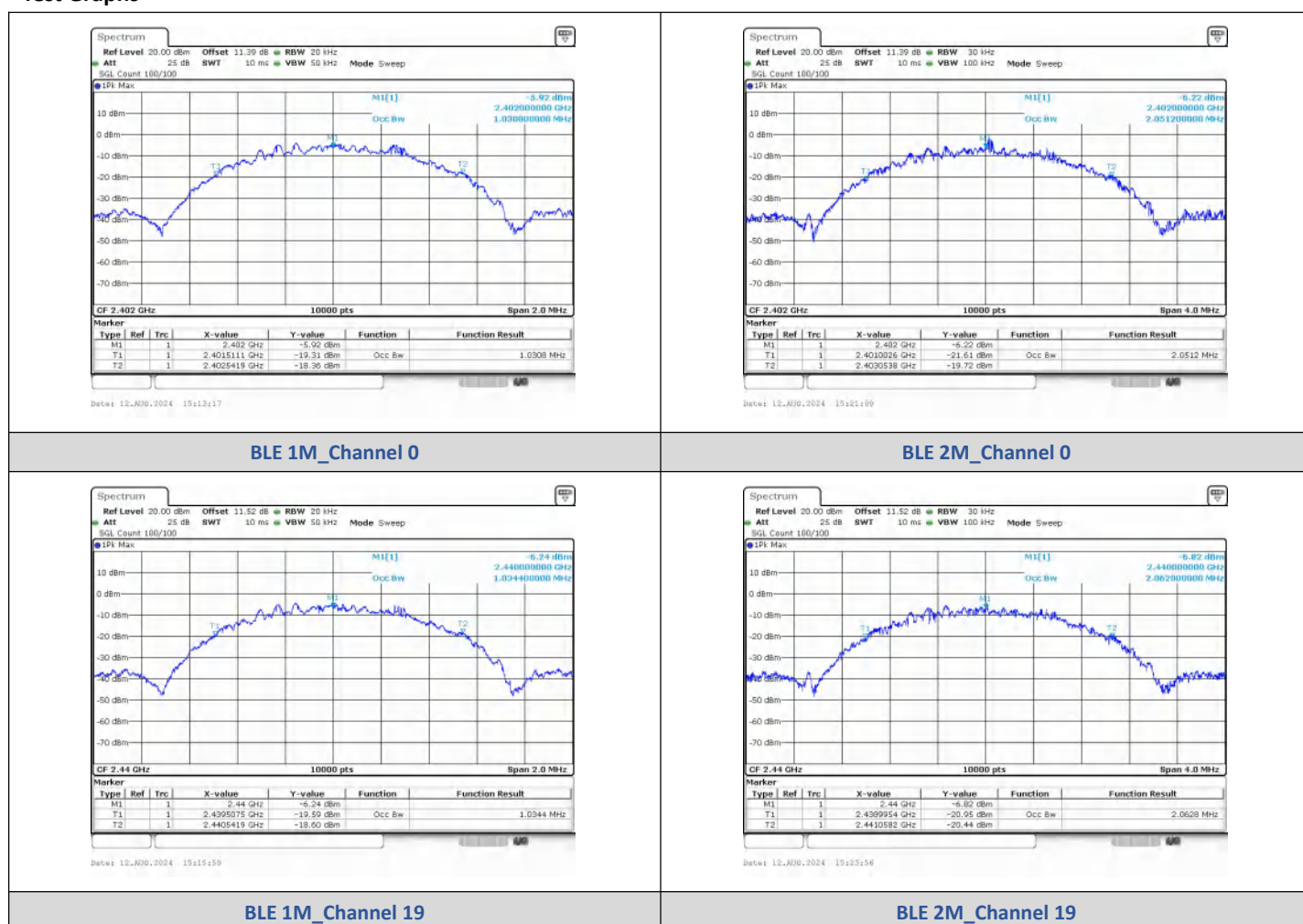
Peak Output Power
BLE 2M_Channel 39

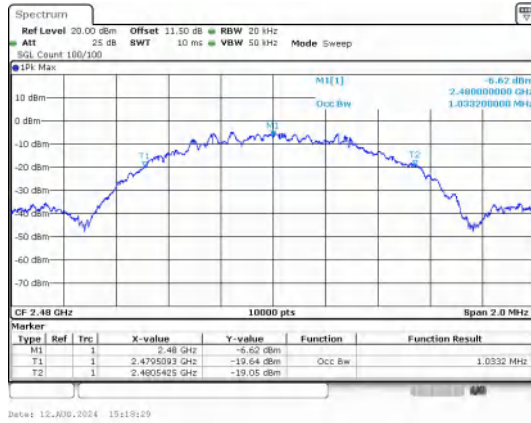
4) 99% Bandwidth

Test Result

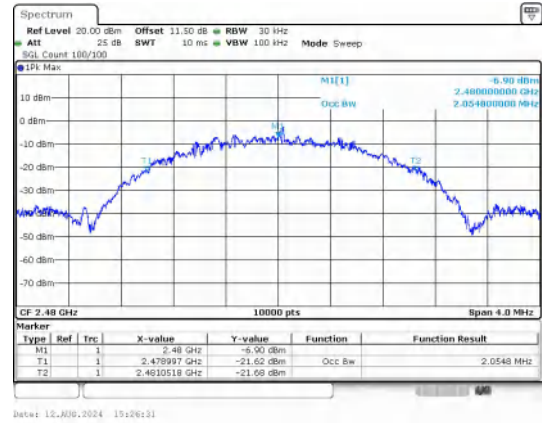
Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0308
BLE 1M	19	2440	1.0344
BLE 1M	39	2480	1.0332
BLE 2M	0	2402	2.0512
BLE 2M	19	2440	2.0628
BLE 2M	39	2480	2.0548

Test Graphs





BLE 1M_Channel 39



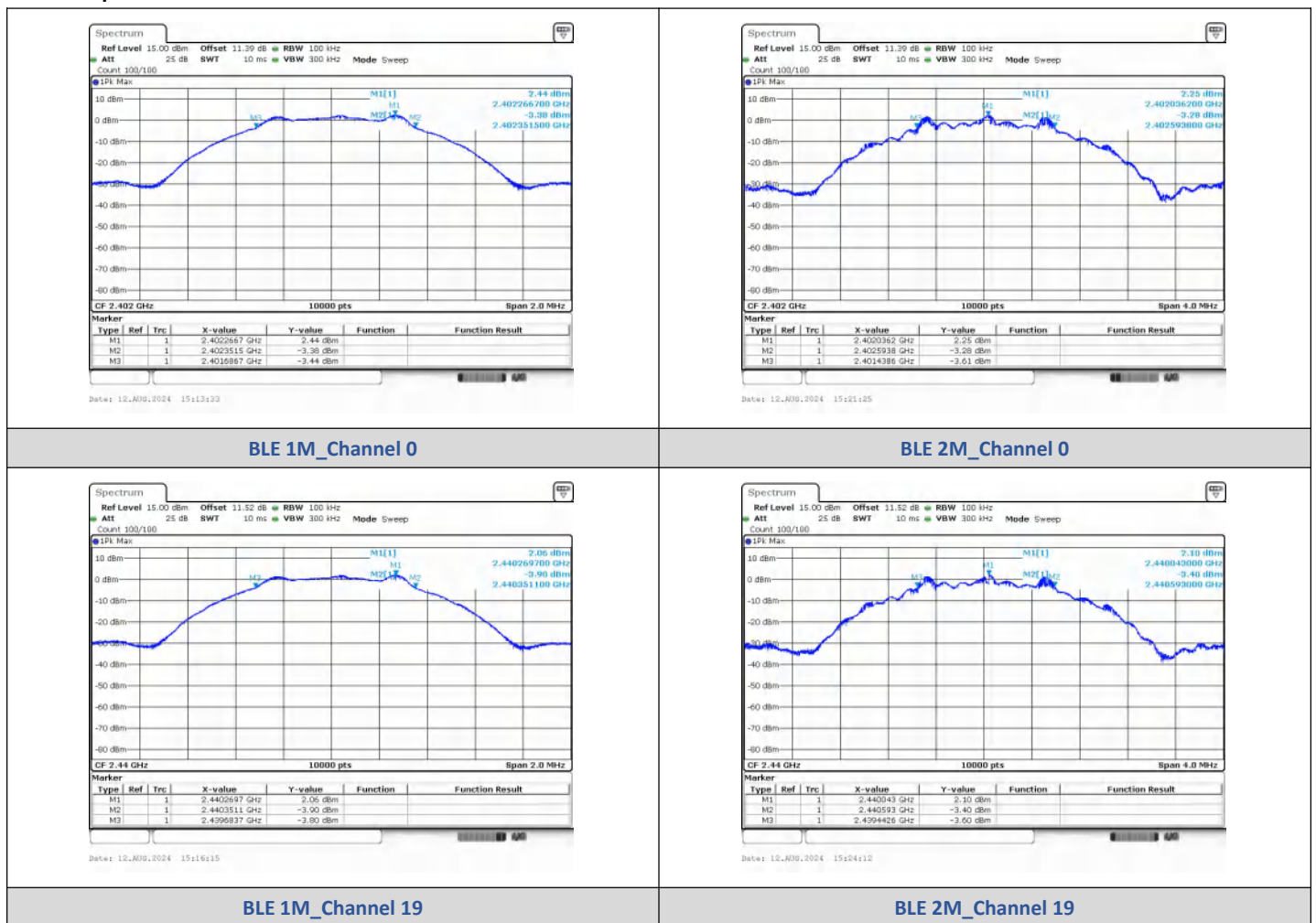
BLE 2M_Channel 39

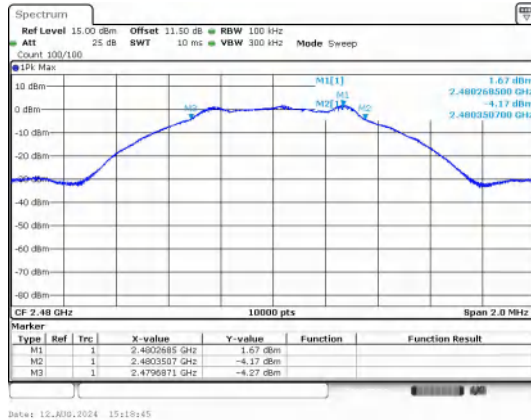
5) 6dB Bandwidth

Test Result

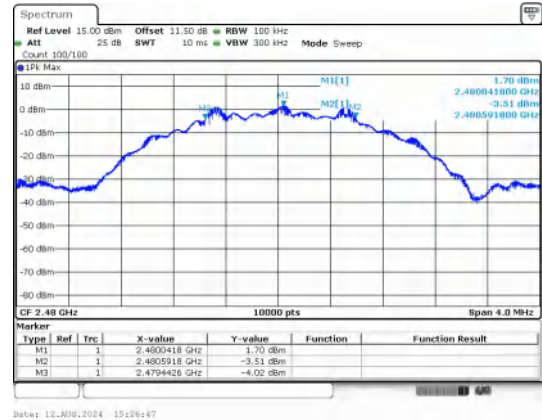
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6700		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.150		PASS
	19	2440	1.150		PASS
	39	2480	1.150		PASS

Test Graphs





BLE 1M_Channel 39



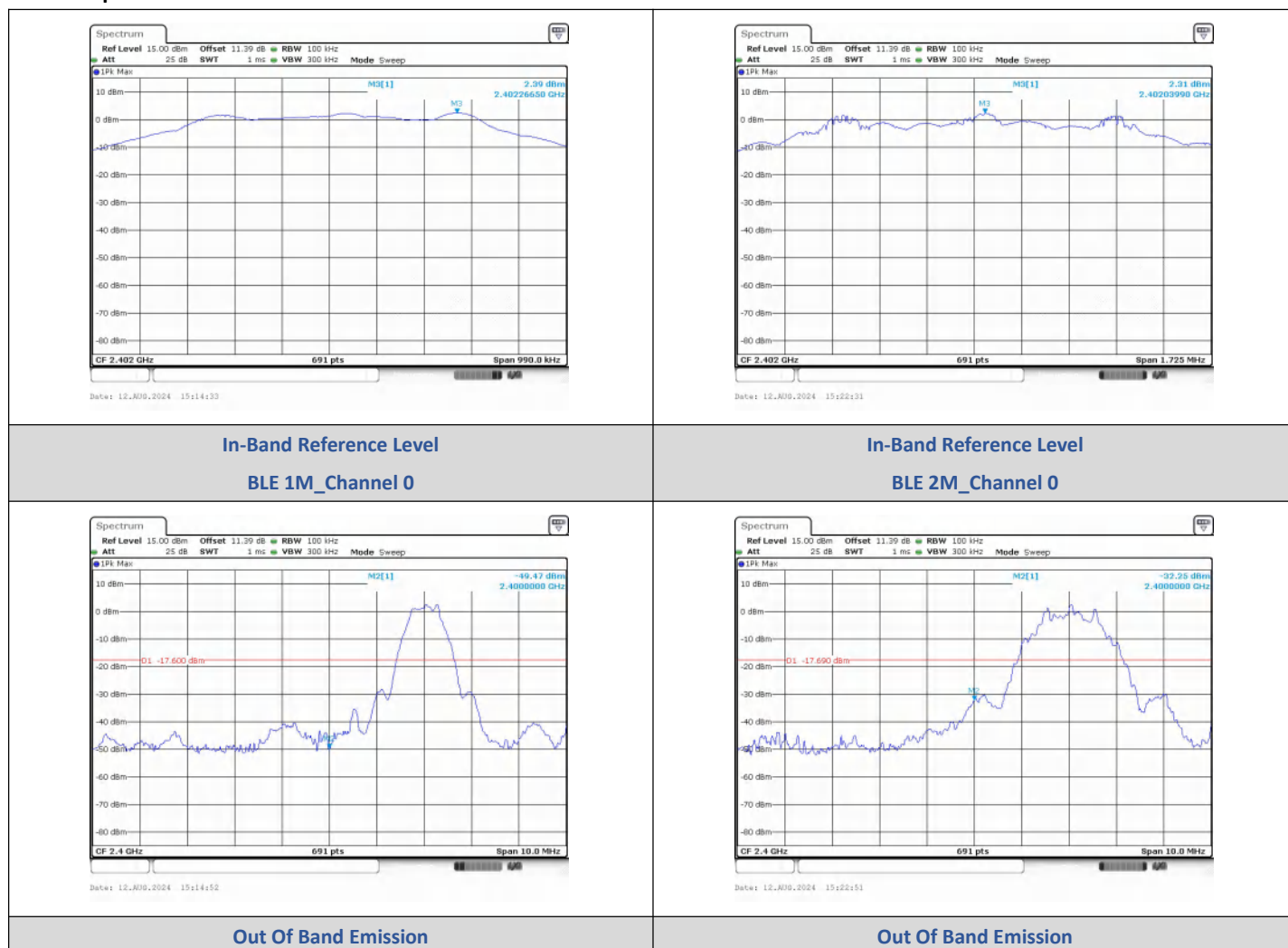
BLE 2M_Channel 39

6) Conducted Out Of Band Emission

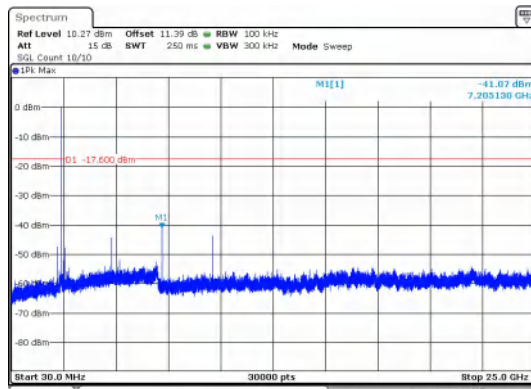
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2399.00	-41.233	-17.6	-23.633	PASS
		2400.00	-49.467	-17.6	-31.867	PASS
		7205.10	-41.073	-17.6	-23.473	PASS
	19	9753.73	-39.742	-17.94	-21.802	PASS
		2483.50	-46.800	-18.35	-28.450	PASS
		9914.37	-38.444	-18.35	-20.094	PASS
BLE 2M	0	2400.00	-32.252	-17.69	-14.562	PASS
		7204.30	-40.229	-17.69	-22.539	PASS
	19	9753.73	-40.202	-17.91	-22.292	PASS
		2483.50	-50.760	-18.55	-32.210	PASS
	39	9914.37	-38.419	-18.55	-19.869	PASS

Test Graphs

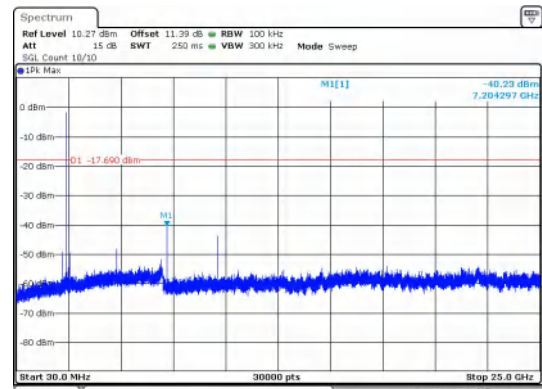


BLE 1M_Channel 0



Date: 12,NOV,2024 15:15:14

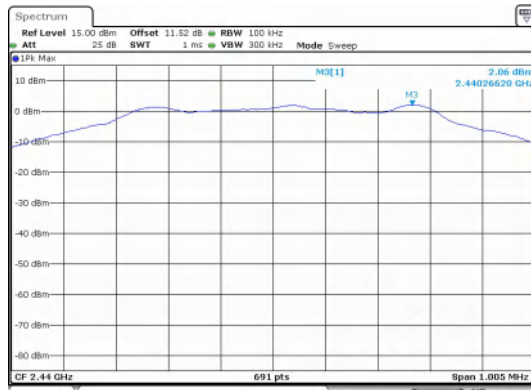
BLE 2M_Channel 0



Date: 12,NOV,2024 15:23:13

30.0 MHz - 25000.0 MHz

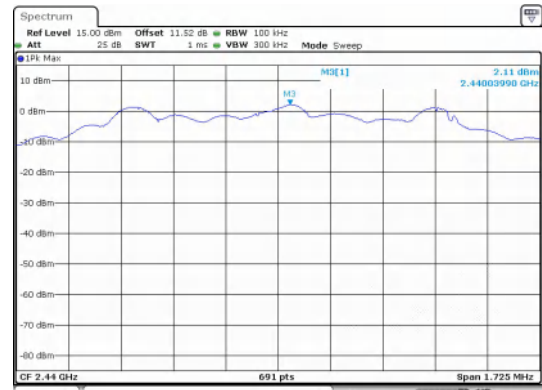
BLE 1M_Channel 0



Date: 12,NOV,2024 15:17:18

30.0 MHz - 25000.0 MHz

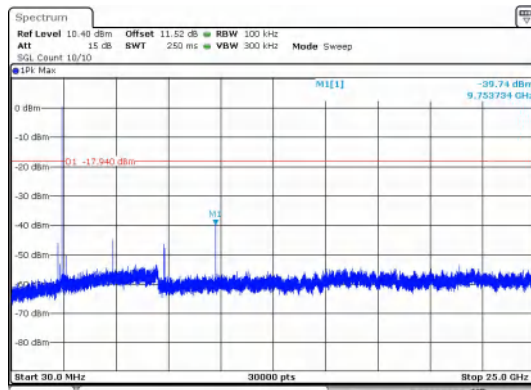
BLE 2M_Channel 0



Date: 12,NOV,2024 15:25:16

In-Band Reference Level

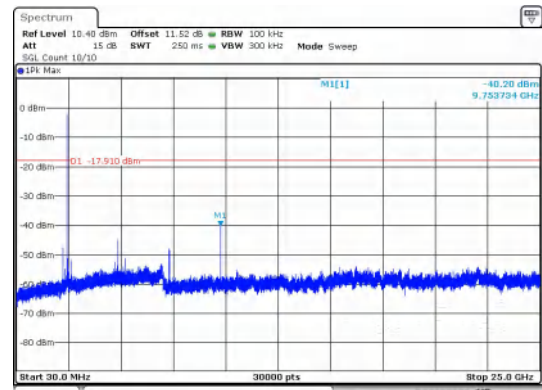
BLE 1M_Channel 19



Date: 12,NOV,2024 15:17:42

In-Band Reference Level

BLE 2M_Channel 19



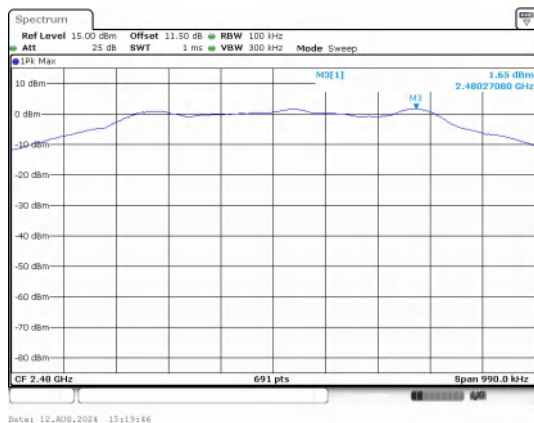
Date: 12,NOV,2024 15:25:41

30.0 MHz - 25000.0 MHz

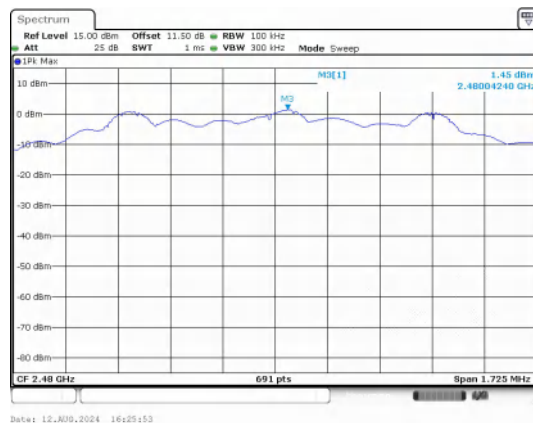
BLE 1M_Channel 19

30.0 MHz - 25000.0 MHz

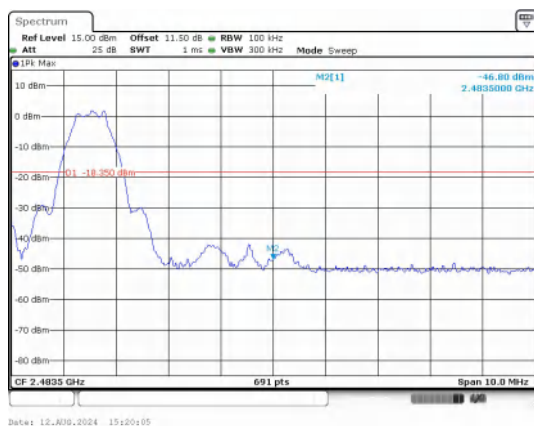
BLE 2M_Channel 19



In-Band Reference Level
BLE 1M_Channel 39



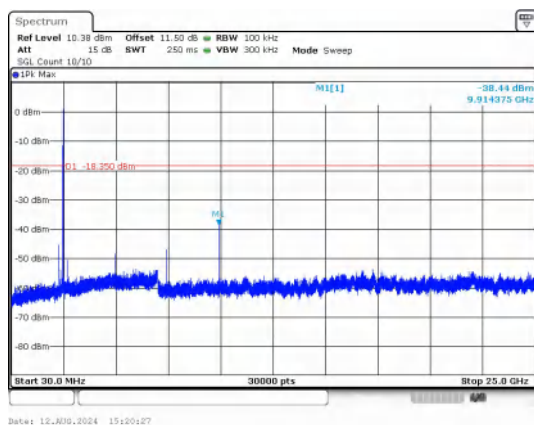
In-Band Reference Level
BLE 2M_Channel 39



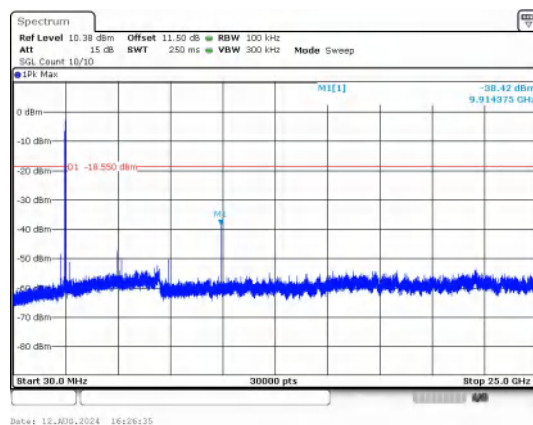
Out Of Band Emission
BLE 1M_Channel 39



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