

Appendix A

Report No.:	CISRR24090302101
FCC ID:	2BGU9-YW08
Product Name:	wireless headphone
Model No.:	YW08
Test Engineer:	Jimmy Huang
Supervised by:	Rory Huang

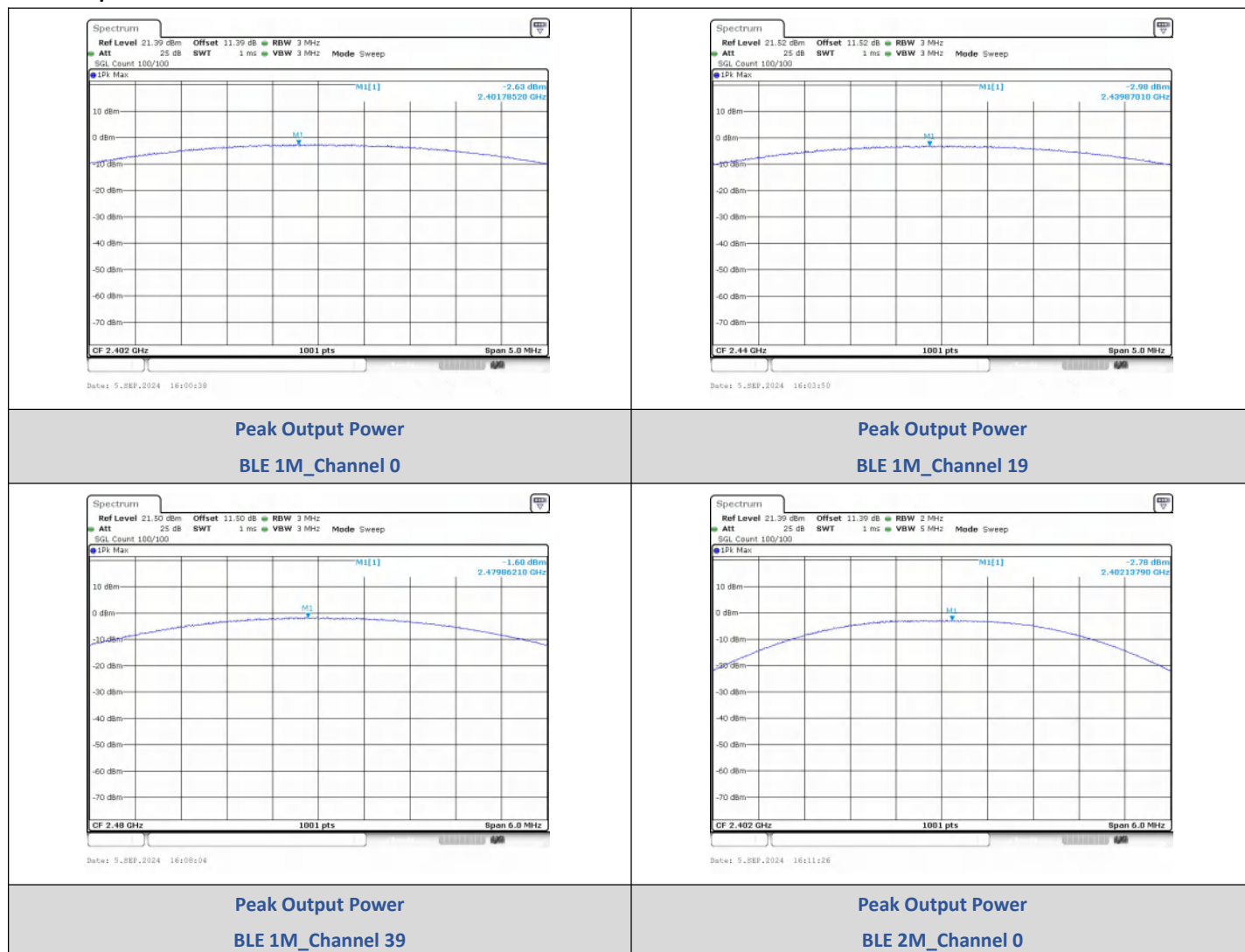
1) Conducted Output Power

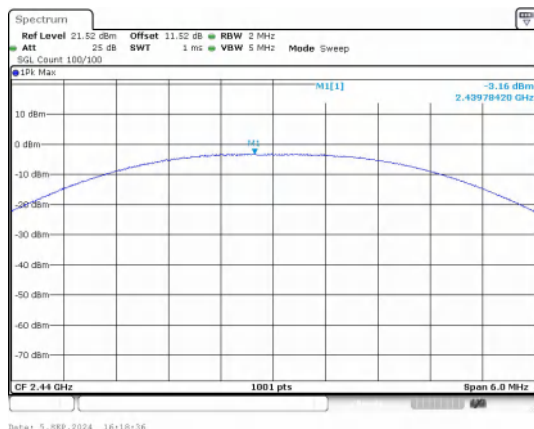
Right:

Test Result

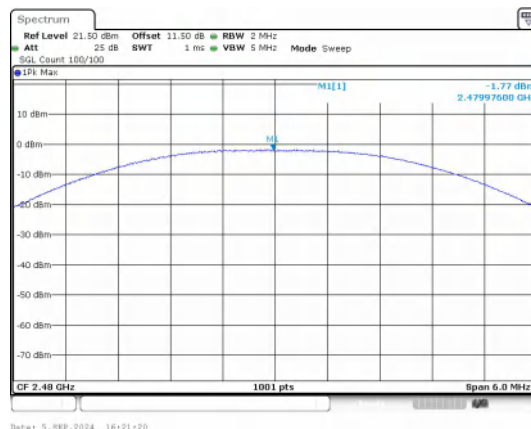
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	-2.63	0.55	≤30	PASS
	19	-2.98	0.5	≤30	PASS
	39	-1.60	0.69	≤30	PASS
BLE 2M	0	-2.78	0.53	≤30	PASS
	19	-3.16	0.48	≤30	PASS
	39	-1.77	0.66	≤30	PASS

Test Graphs





Peak Output Power
BLE 2M_Channel 19



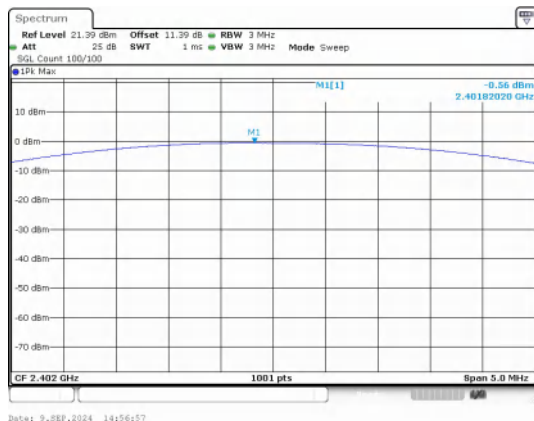
Peak Output Power
BLE 2M_Channel 39

Left:

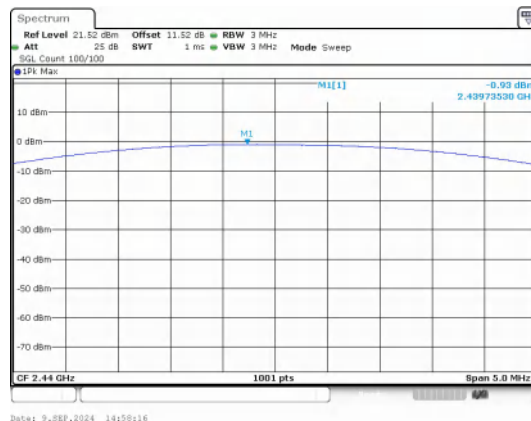
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	-0.56	0.88	≤30	PASS
	19	-0.93	0.81	≤30	PASS
	39	-1.15	0.77	≤30	PASS
BLE 2M	0	-0.63	0.87	≤30	PASS
	19	-0.75	0.84	≤30	PASS
	39	-0.94	0.8	≤30	PASS

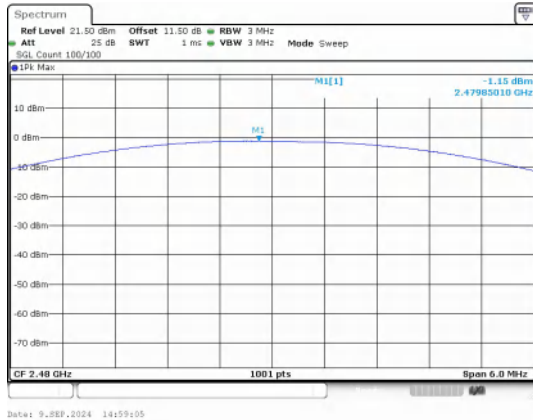
Test Graphs



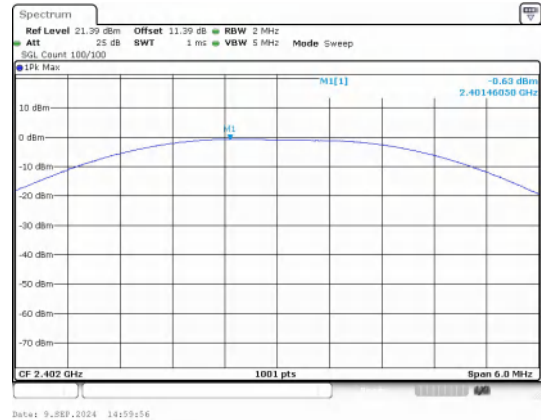
Peak Output Power
BLE 1M_Channel 0



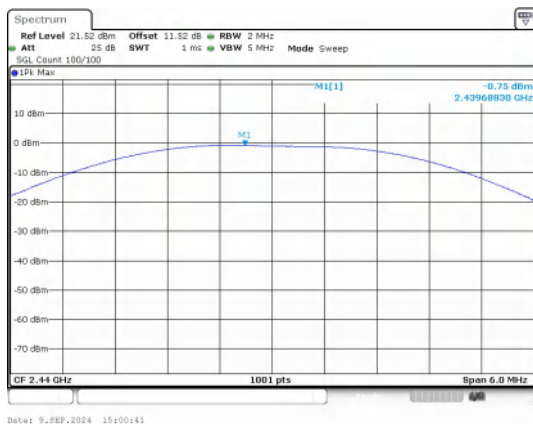
Peak Output Power
BLE 1M_Channel 19



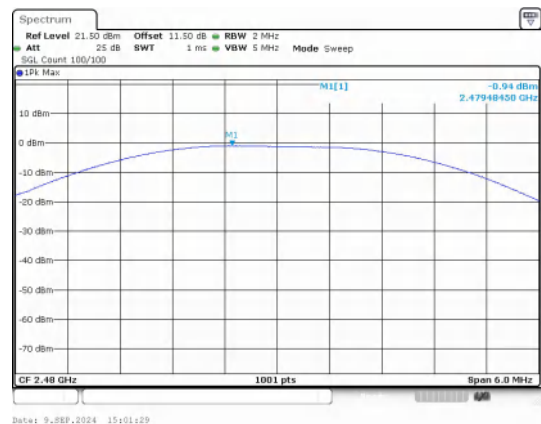
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



Peak Output Power
BLE 2M_Channel 39

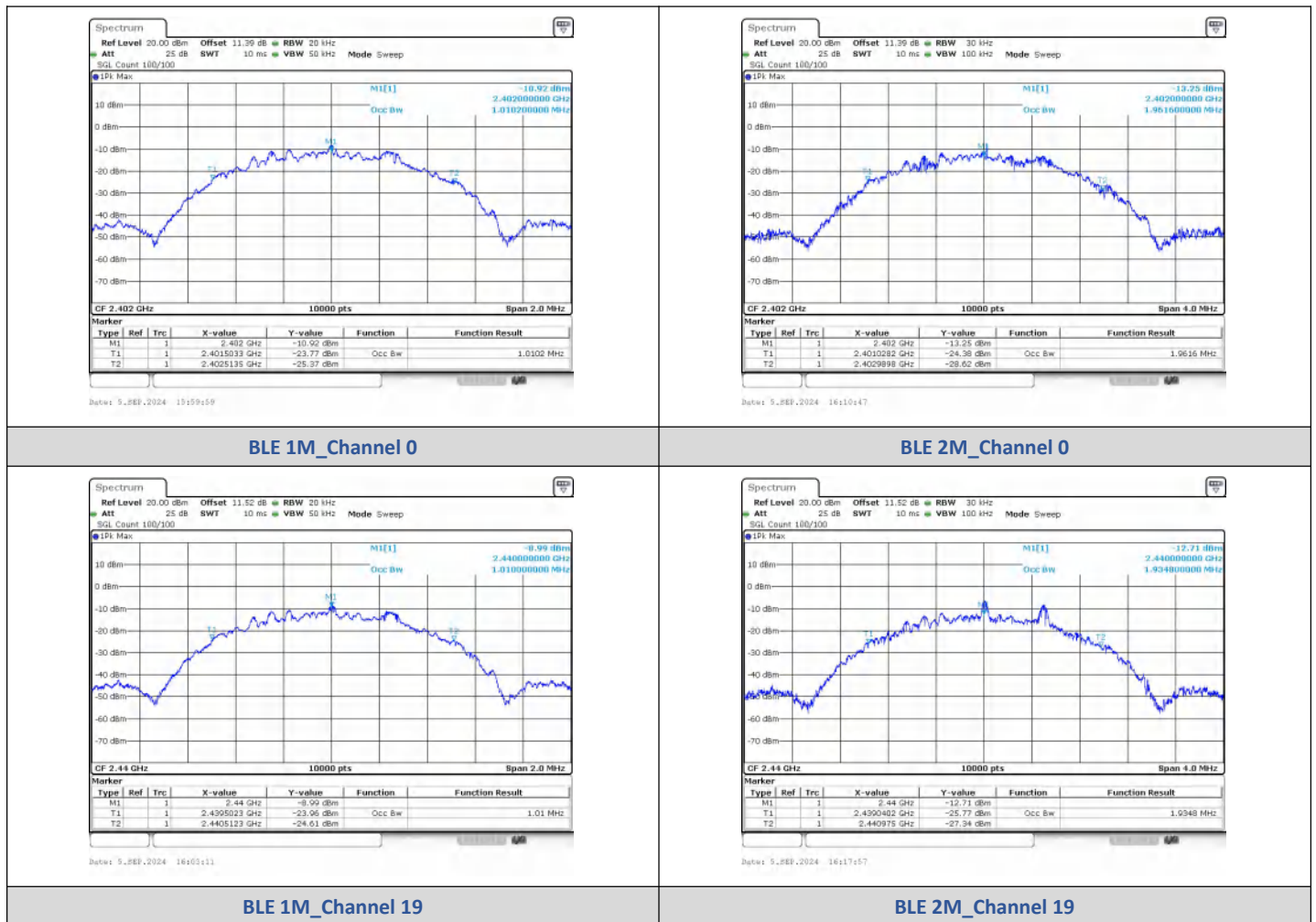
2) 99% Bandwidth

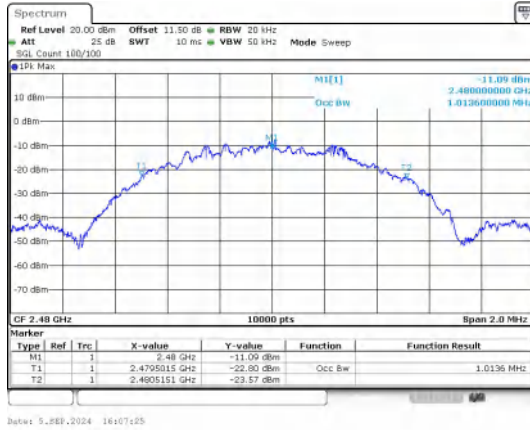
Right:

Test Result

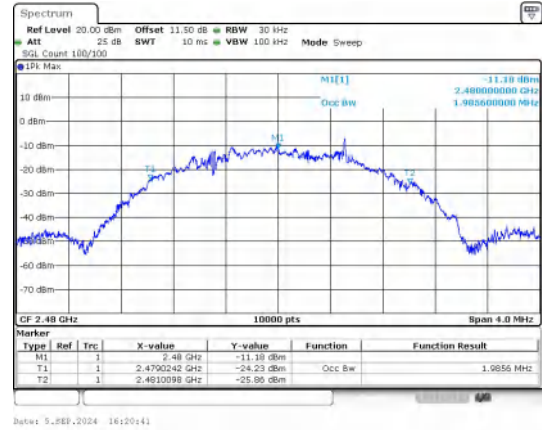
Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0102
BLE 1M	19	2440	1.0100
BLE 1M	39	2480	1.0136
BLE 2M	0	2402	1.9616
BLE 2M	19	2440	1.9348
BLE 2M	39	2480	1.9856

Test Graphs





BLE 1M_Channel 39

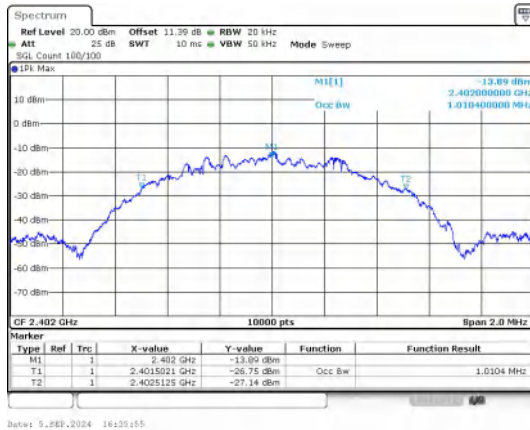


BLE 2M_Channel 39

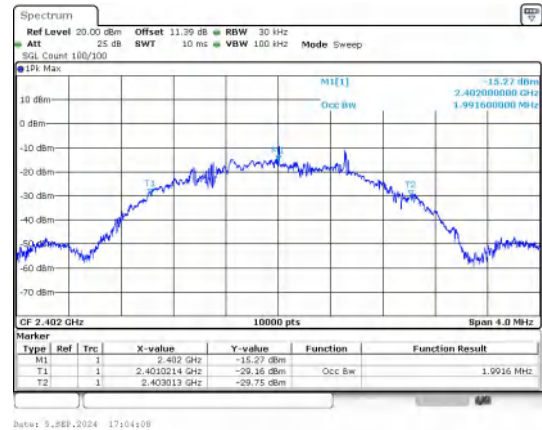
Left: Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0104
BLE 1M	19	2440	1.0120
BLE 1M	39	2480	1.0118
BLE 2M	0	2402	1.9916
BLE 2M	19	2440	1.9280
BLE 2M	39	2480	1.9408

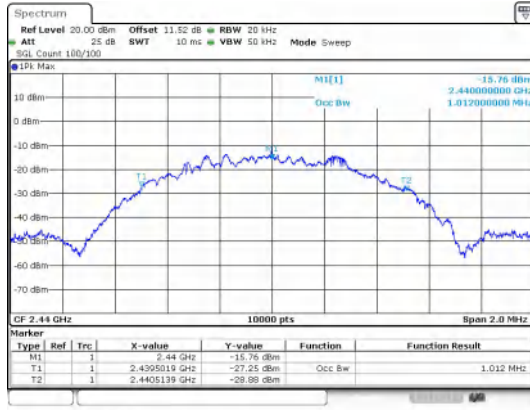
Test Graphs



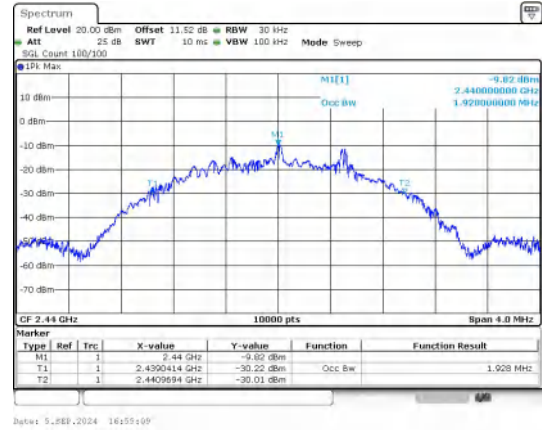
BLE 1M_Channel 0



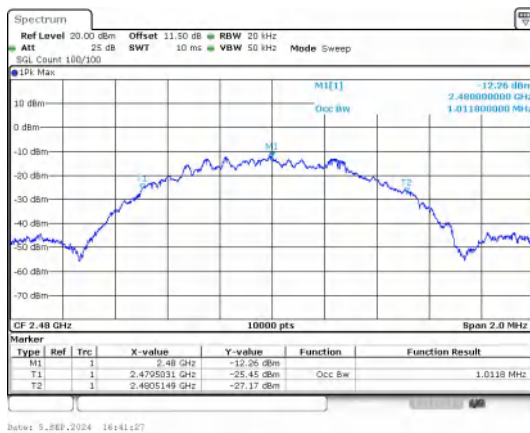
BLE 2M_Channel 0



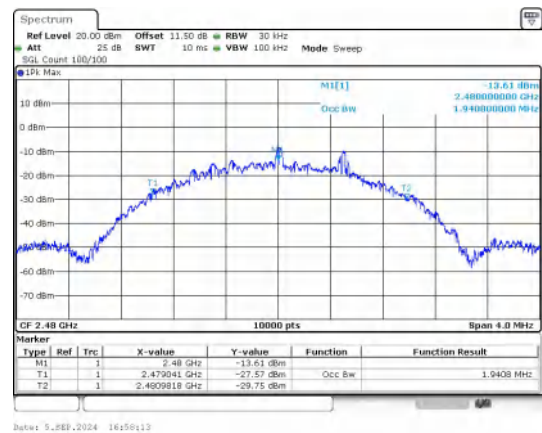
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



BLE 2M_Channel 39

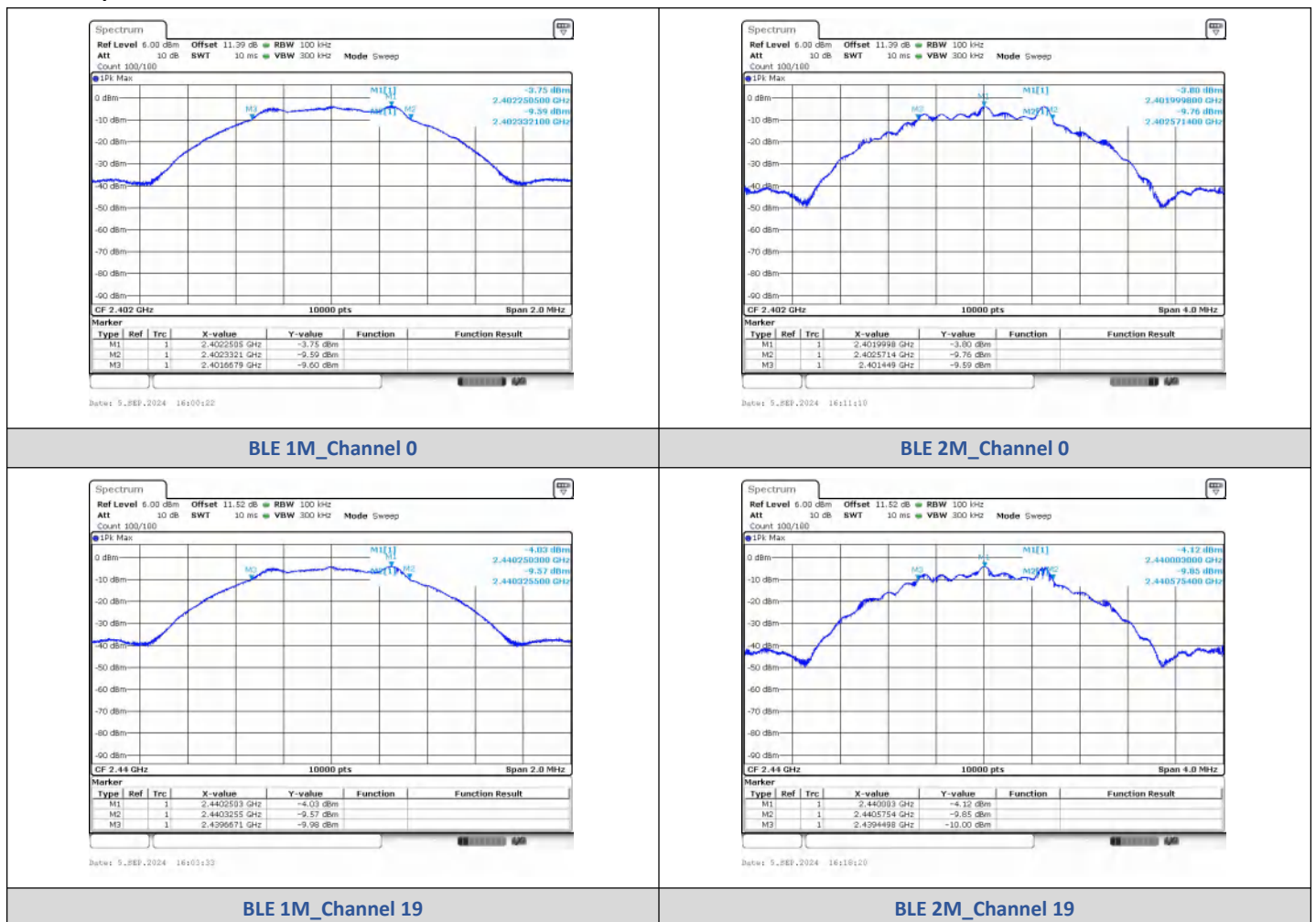
3) 6dB Bandwidth

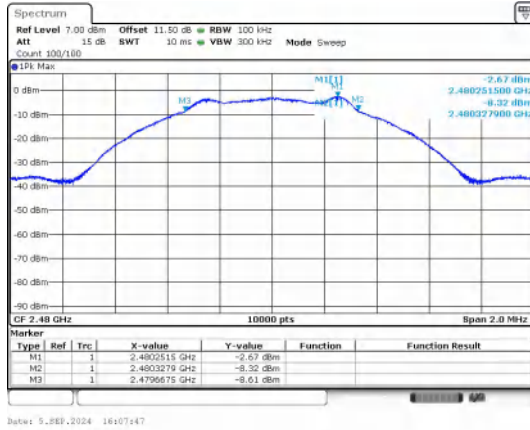
Right:

Test Result

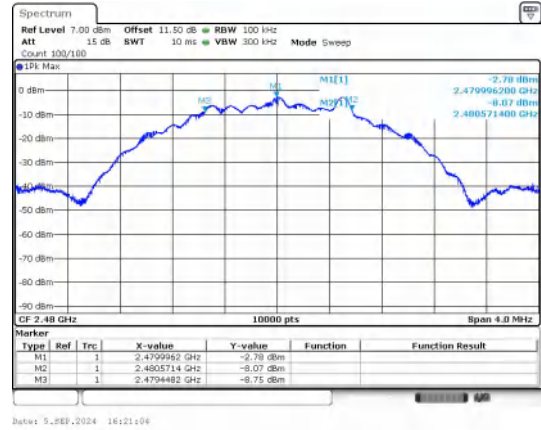
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.120		PASS
	19	2440	1.130		PASS
	39	2480	1.120		PASS

Test Graphs





BLE 1M_Channel 39

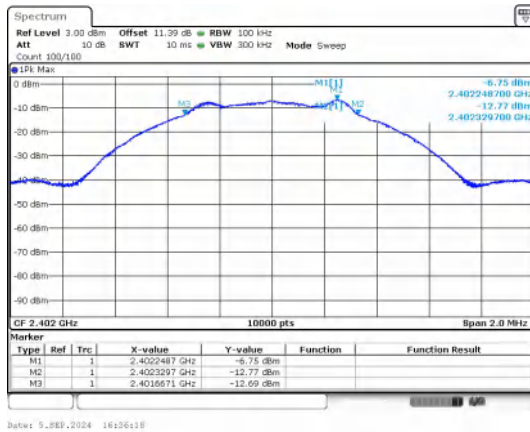


BLE 2M_Channel 39

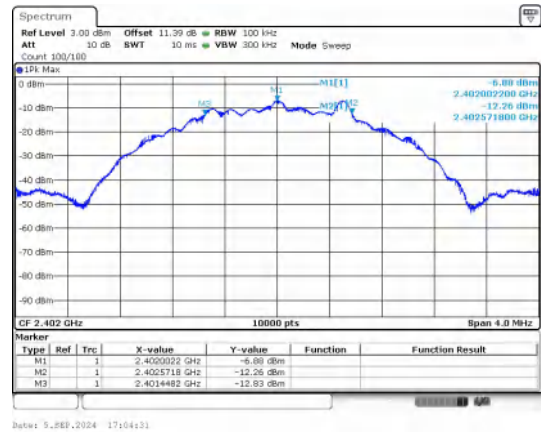
**Left:
Test Result**

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	1.120		PASS
	19	2440	1.130		PASS
	39	2480	1.130		PASS

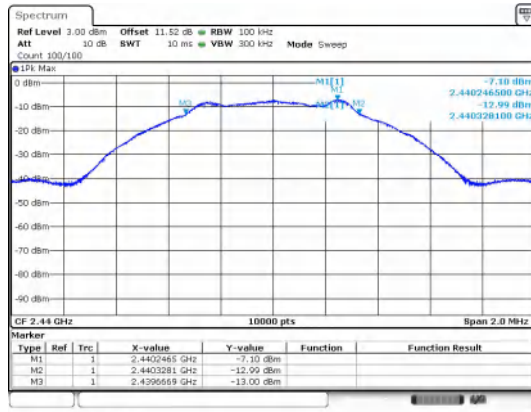
Test Graphs



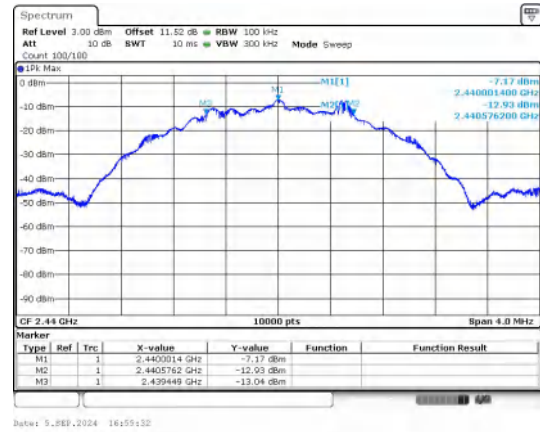
BLE 1M_Channel 0



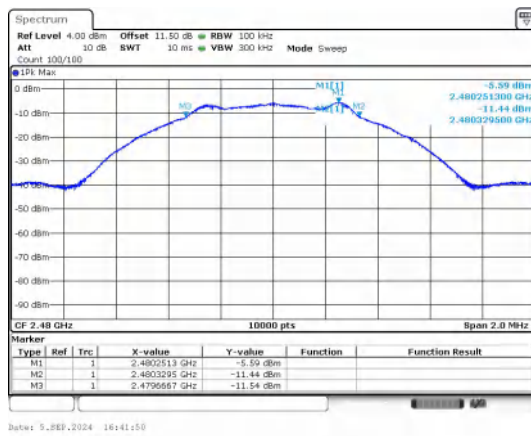
BLE 2M_Channel 0



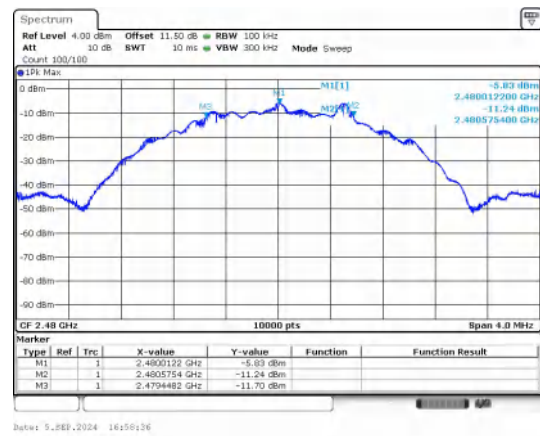
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



BLE 2M_Channel 39

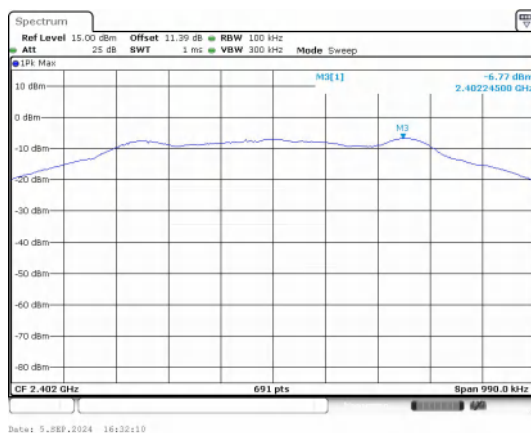
4) Conducted Out Of Band Emission

Right:

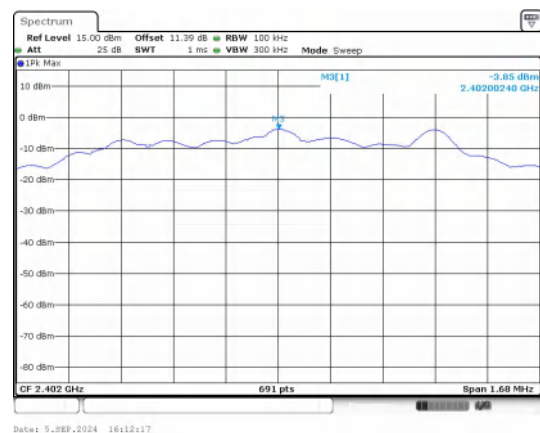
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2395.77	-47.972	-26.77	-21.202	PASS
		2400.00	-51.085	-26.77	-24.315	PASS
		6904.70	-53.424	-26.77	-26.654	PASS
	19	6955.43	-52.692	-24.09	-28.602	PASS
	39	2483.50	-50.414	-22.74	-27.674	PASS
		6949.60	-53.253	-22.74	-30.513	PASS
BLE 2M	0	2400.00	-41.325	-23.85	-17.475	PASS
		6974.57	-52.255	-23.85	-28.405	PASS
	19	6300.38	-53.108	-24.17	-28.938	PASS
	39	2483.50	-50.665	-22.83	-27.835	PASS
		6937.95	-52.553	-22.83	-29.723	PASS

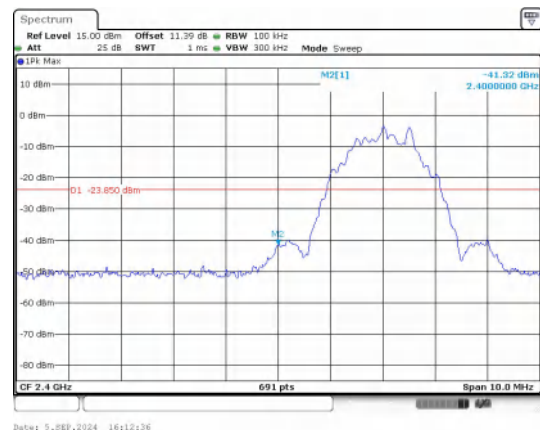
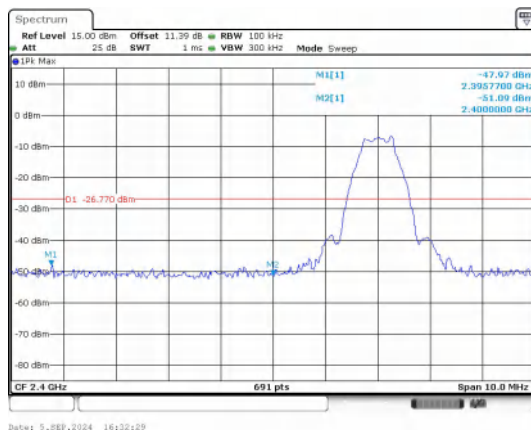
Test Graphs



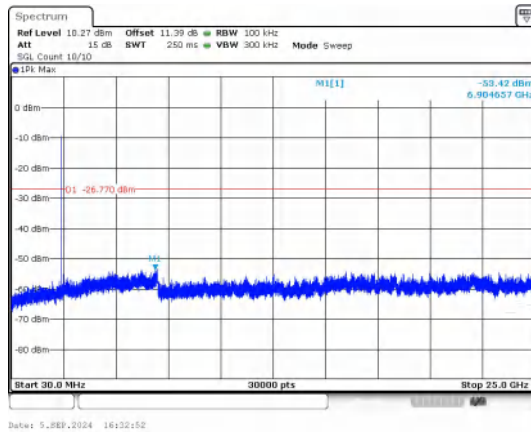
In-Band Reference Level
BLE 1M_Channel 0



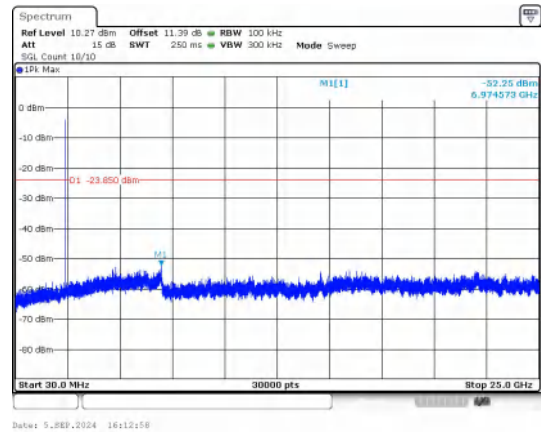
In-Band Reference Level
BLE 2M_Channel 0



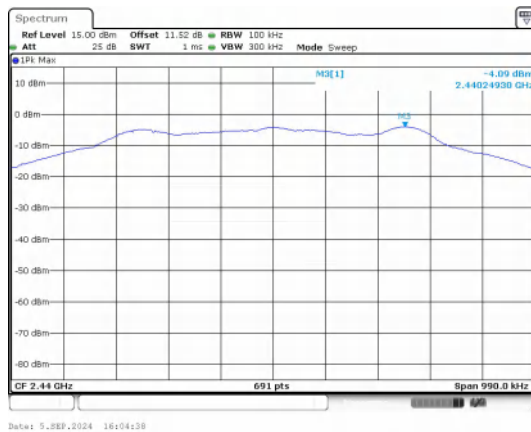
Out Of Band Emission
BLE 1M_Channel 0



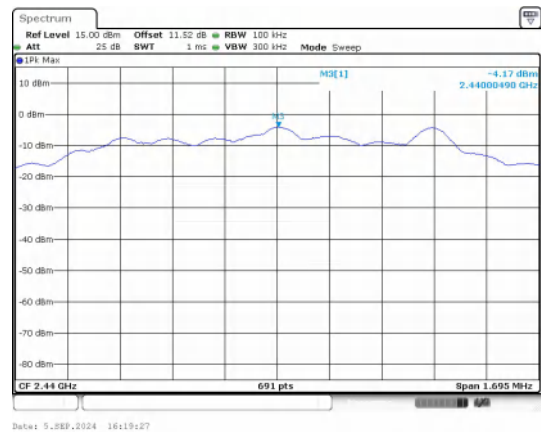
Out Of Band Emission
BLE 2M_Channel 0



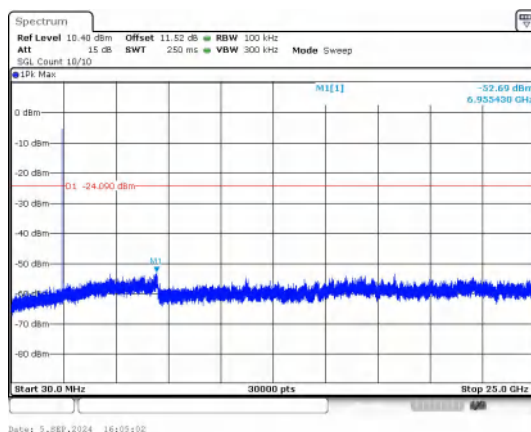
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



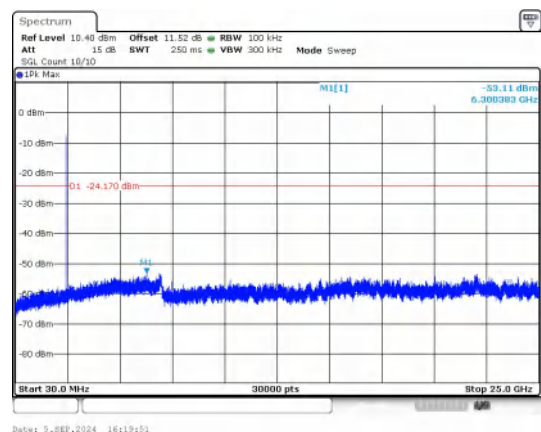
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



In-Band Reference Level
BLE 1M_Channel 19

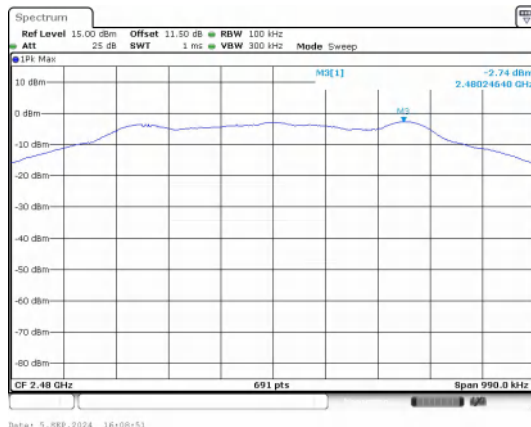


In-Band Reference Level
BLE 2M_Channel 19

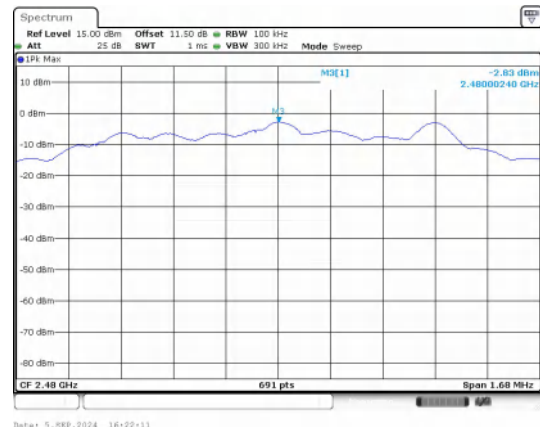


30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19

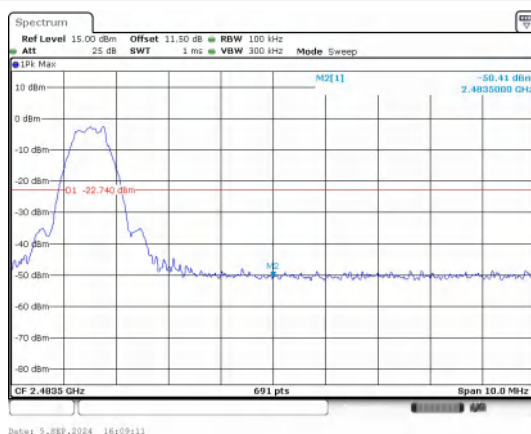
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



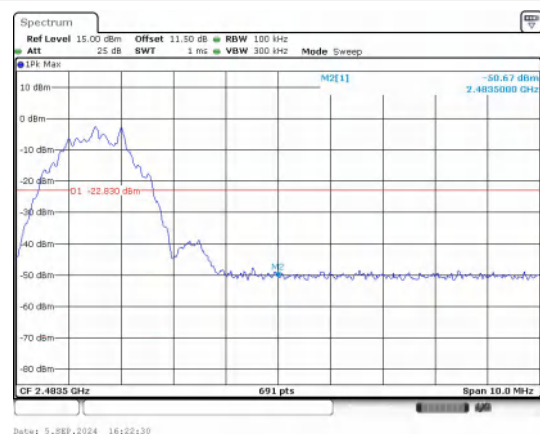
In-Band Reference Level
BLE 1M_Channel 39



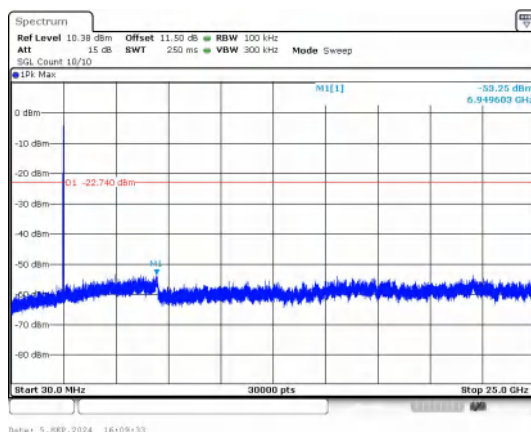
In-Band Reference Level
BLE 2M_Channel 39



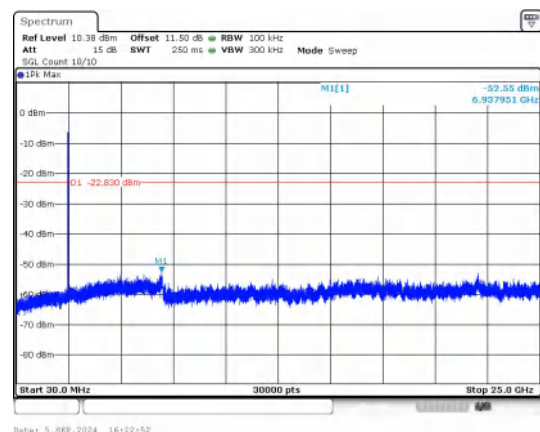
Out Of Band Emission
BLE 1M_Channel 39



Out Of Band Emission
BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39



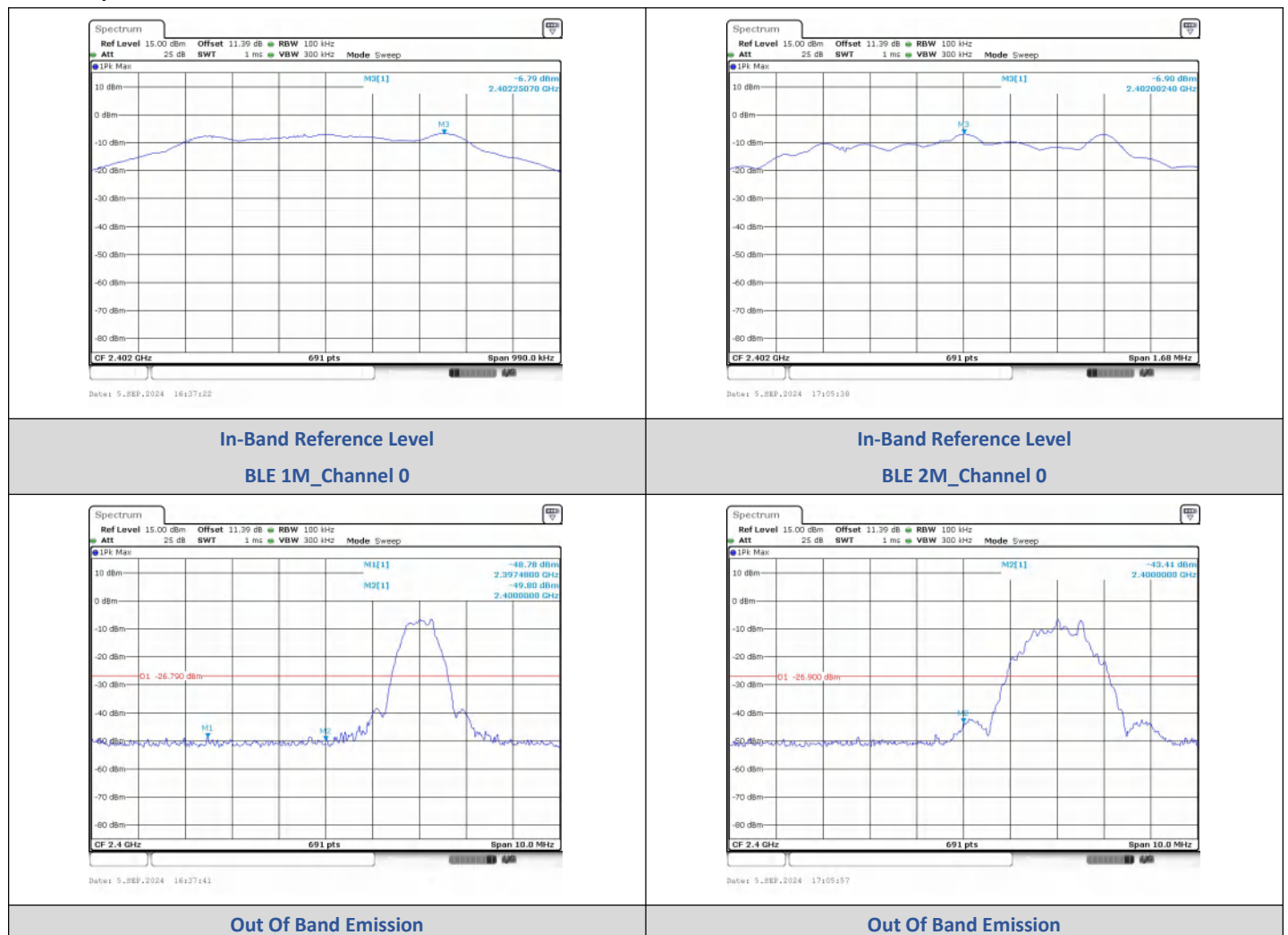
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39

Left:

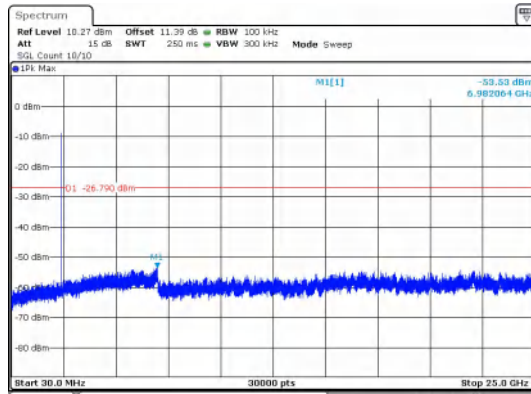
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2397.48	-48.779	-26.79	-21.989	PASS
		2400.00	-49.803	-26.79	-23.013	PASS
		6982.10	-53.530	-26.79	-26.740	PASS
	19	6163.05	-52.992	-27.11	-25.882	PASS
	39	2483.50	-50.140	-25.75	-24.390	PASS
		6993.72	-52.775	-25.75	-27.025	PASS
BLE 2M	0	2400.00	-43.408	-26.9	-16.508	PASS
		22053.1	-52.260	-26.9	-25.360	PASS
	19	6952.93	-53.197	-27.22	-25.977	PASS
	39	2483.50	-51.242	-25.9	-25.342	PASS
		6923.80	-52.414	-25.9	-26.514	PASS

Test Graphs

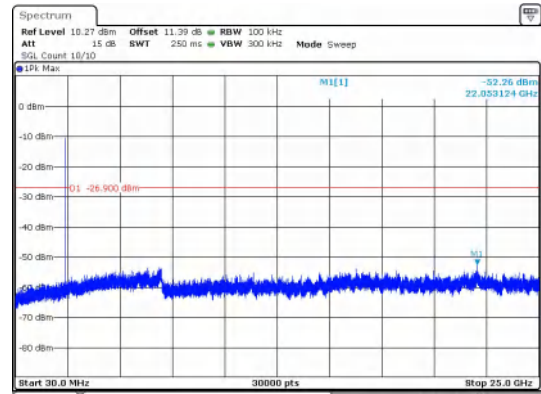


BLE 1M_Channel 0



Date: 5. SEP. 2024 16:39:06

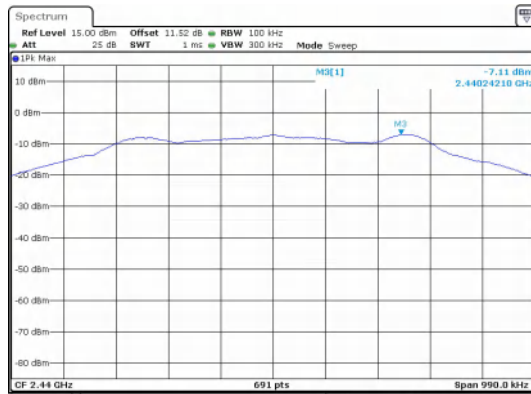
BLE 2M_Channel 0



Date: 5. SEP. 2024 17:06:19

30.0 MHz - 25000.0 MHz

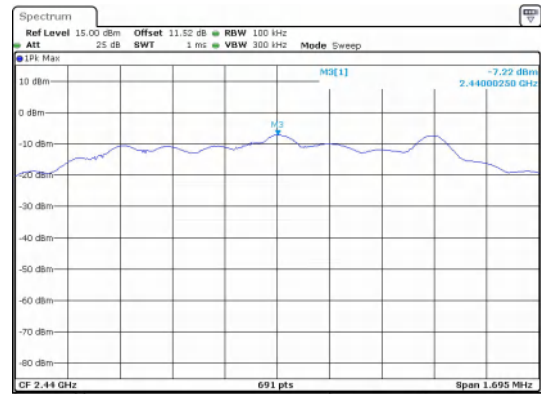
BLE 1M_Channel 0



Date: 5. SEP. 2024 16:39:17

30.0 MHz - 25000.0 MHz

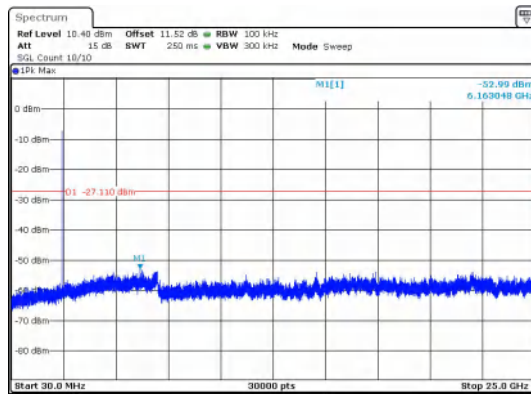
BLE 2M_Channel 0



Date: 5. SEP. 2024 16:56:39

In-Band Reference Level

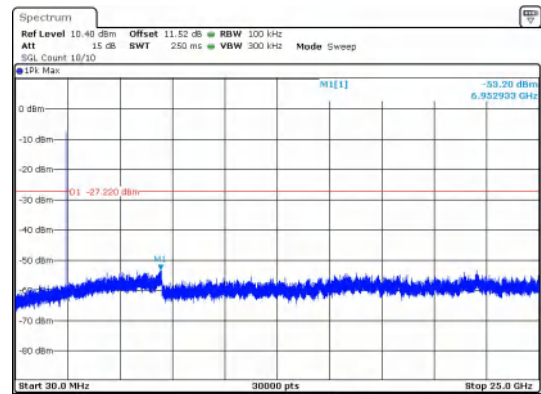
BLE 1M_Channel 19



Date: 5. SEP. 2024 16:40:42

In-Band Reference Level

BLE 2M_Channel 19



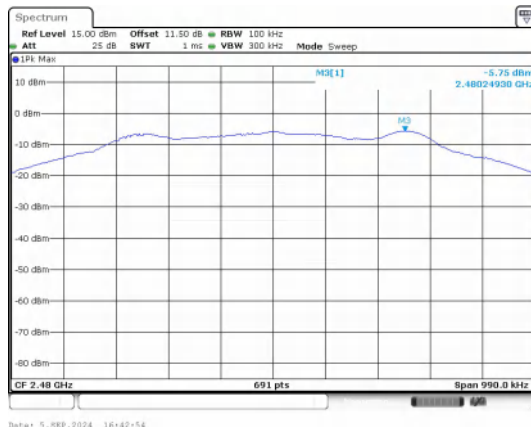
Date: 5. SEP. 2024 16:57:03

30.0 MHz - 25000.0 MHz

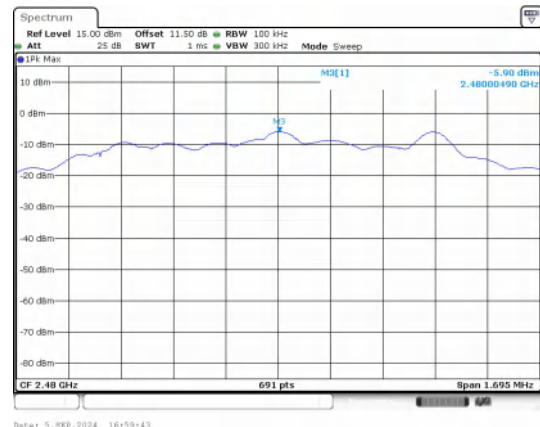
BLE 1M_Channel 19

30.0 MHz - 25000.0 MHz

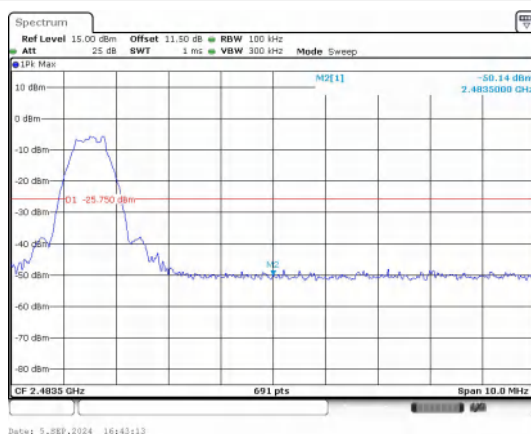
BLE 2M_Channel 19



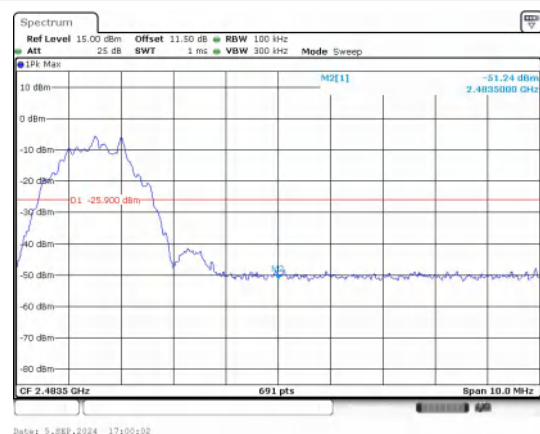
In-Band Reference Level
BLE 1M_Channel 39



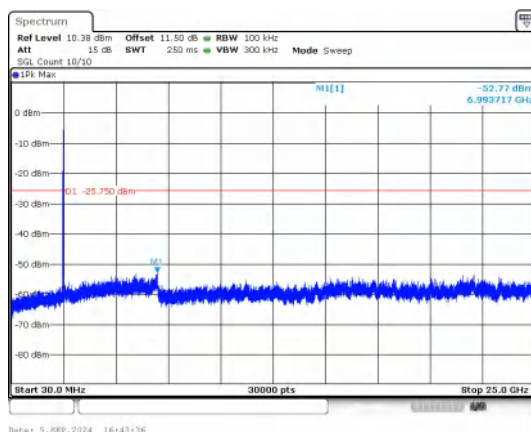
In-Band Reference Level
BLE 2M_Channel 39



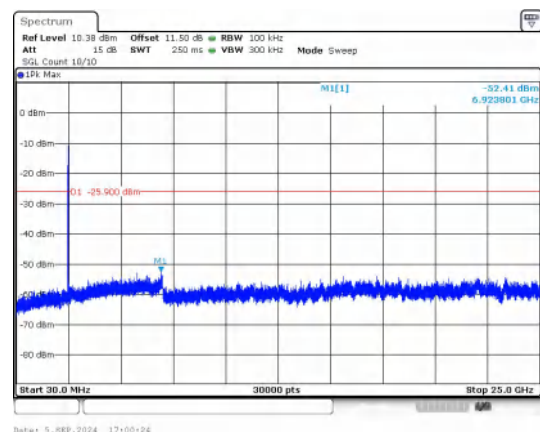
Out Of Band Emission
BLE 1M_Channel 39



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

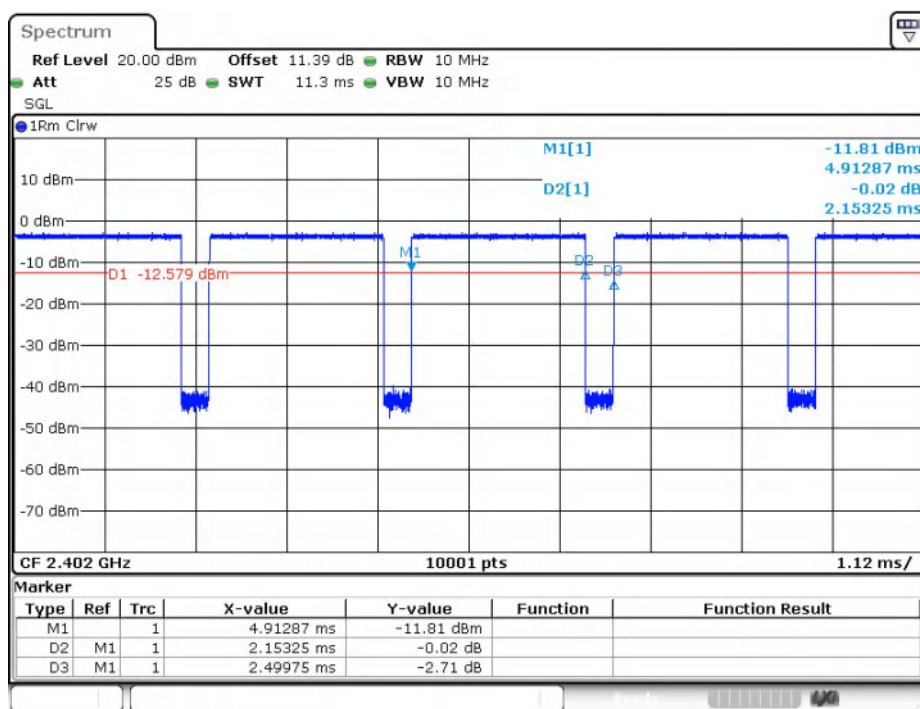
5) Duty Cycle

Right:

Test Result

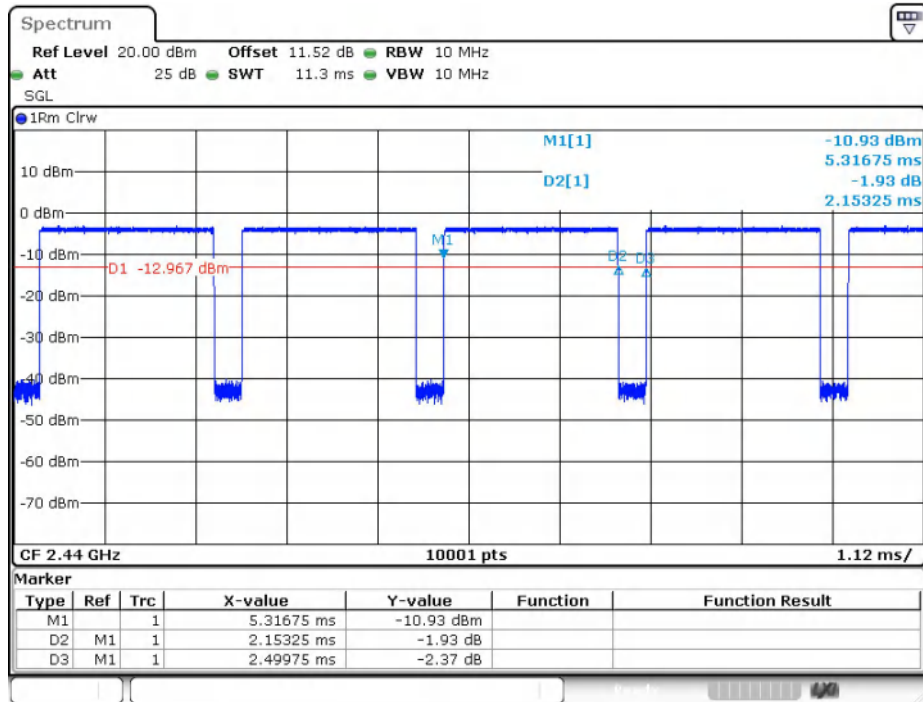
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.153	2.500	86.14	0.8614	0.648	0.46
	19	2.153	2.500	86.14	0.8614	0.648	0.46
	39	2.152	2.499	86.13	0.8613	0.6485	0.46
BLE 2M	0	1.097	1.874	58.54	0.5854	2.3255	0.91
	19	1.098	1.874	58.58	0.5858	2.3225	0.91
	39	1.097	1.874	58.54	0.5854	2.3255	0.91

Test Graphs



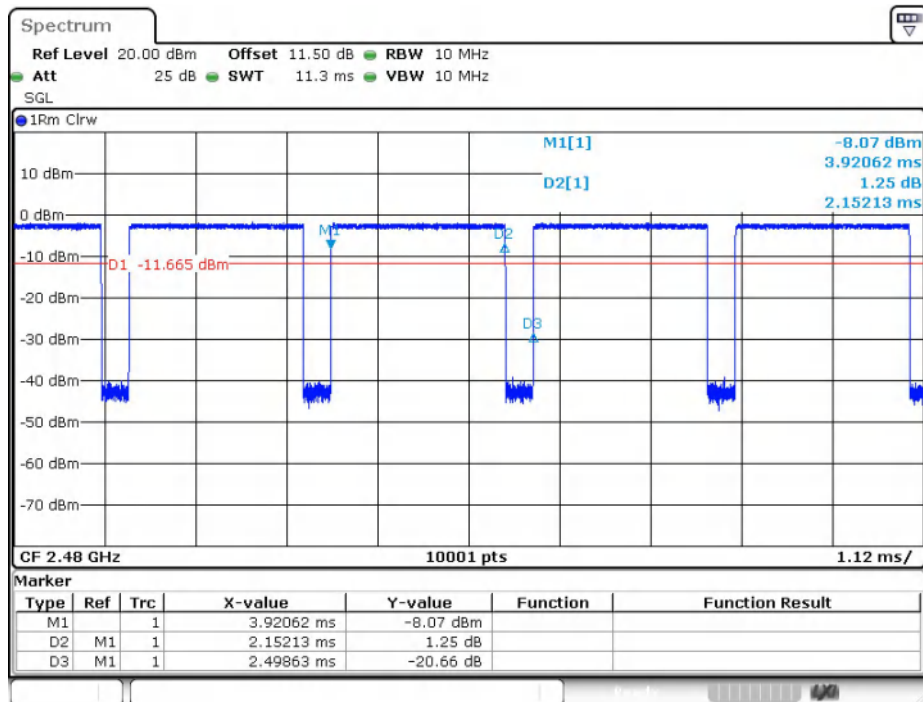
Date: 5.SEP.2024 15:59:45

BLE 1M_Channel 0



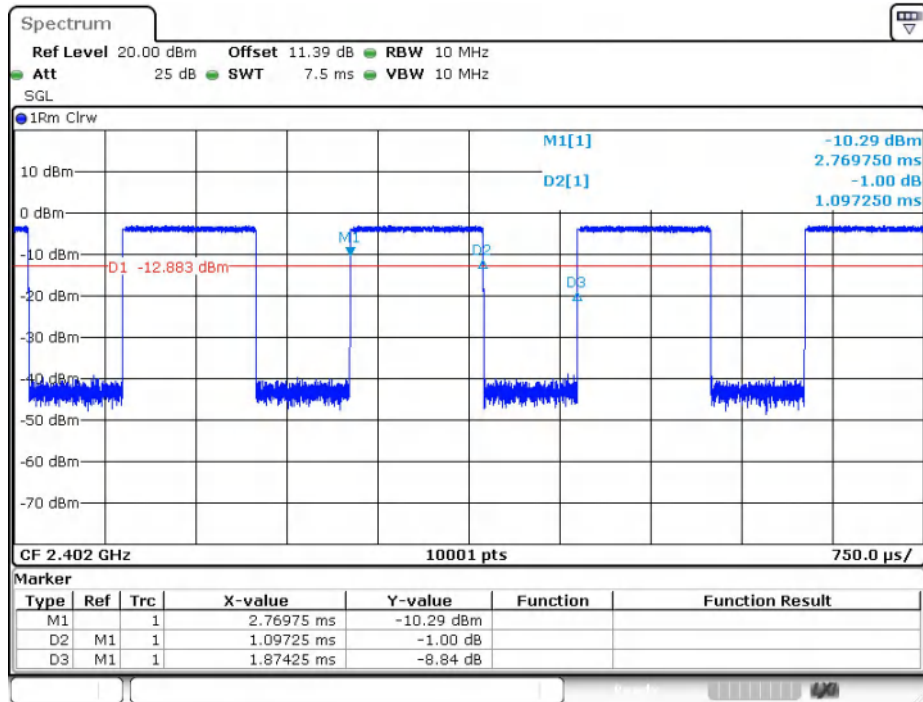
Date: 5.SEP.2024 16:02:56

BLE 1M_Channel 19



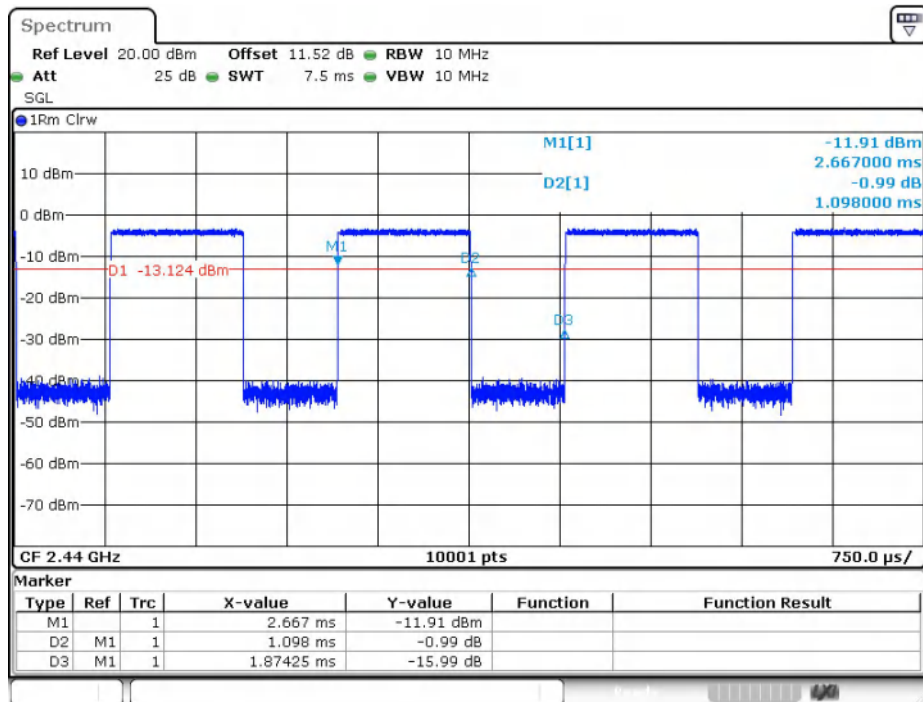
Date: 5.SEP.2024 16:07:10

BLE 1M_Channel 39



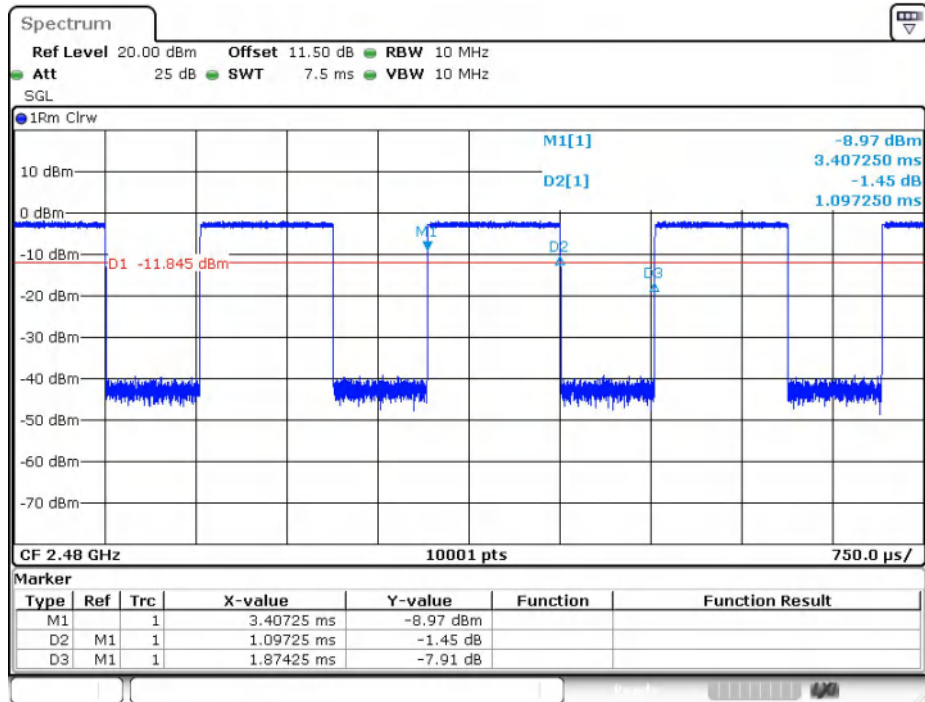
Date: 5.SEP.2024 16:10:33

BLE 2M_Channel 0



Date: 5.SEP.2024 16:17:43

BLE 2M_Channel 19



Date: 5.SEP.2024 16:20:27

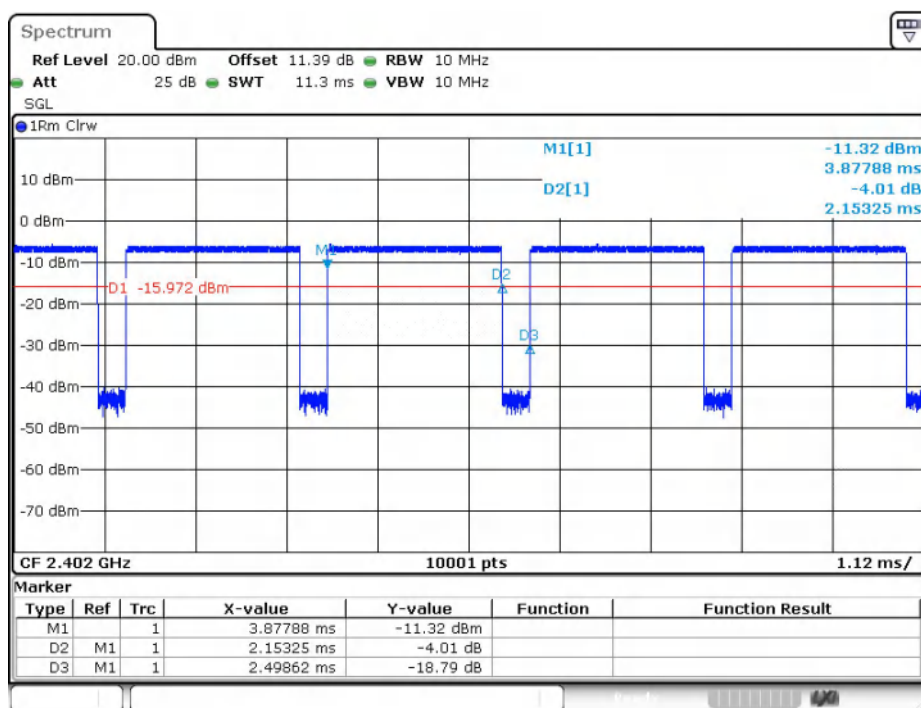
BLE 2M_Channel 39

Left:

Test Result

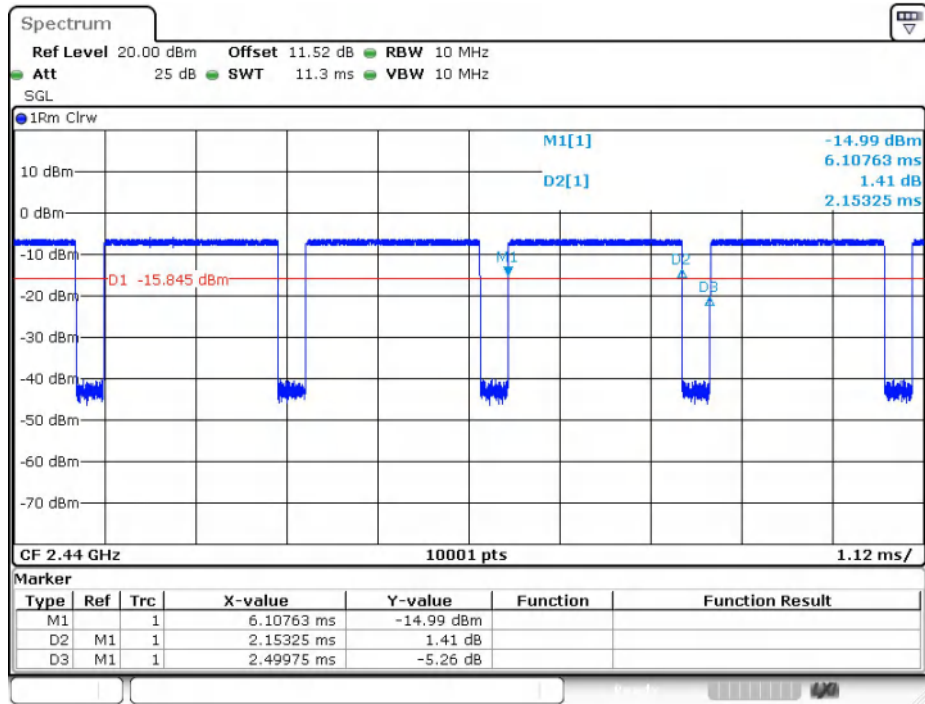
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.153	2.499	86.18	0.8618	0.6459	0.46
	19	2.153	2.500	86.14	0.8614	0.648	0.46
	39	2.152	2.499	86.13	0.8613	0.6485	0.46
BLE 2M	0	1.097	1.873	58.56	0.5856	2.324	0.91
	19	1.097	1.874	58.52	0.5852	2.327	0.91
	39	1.097	1.873	58.56	0.5856	2.324	0.91

Test Graphs



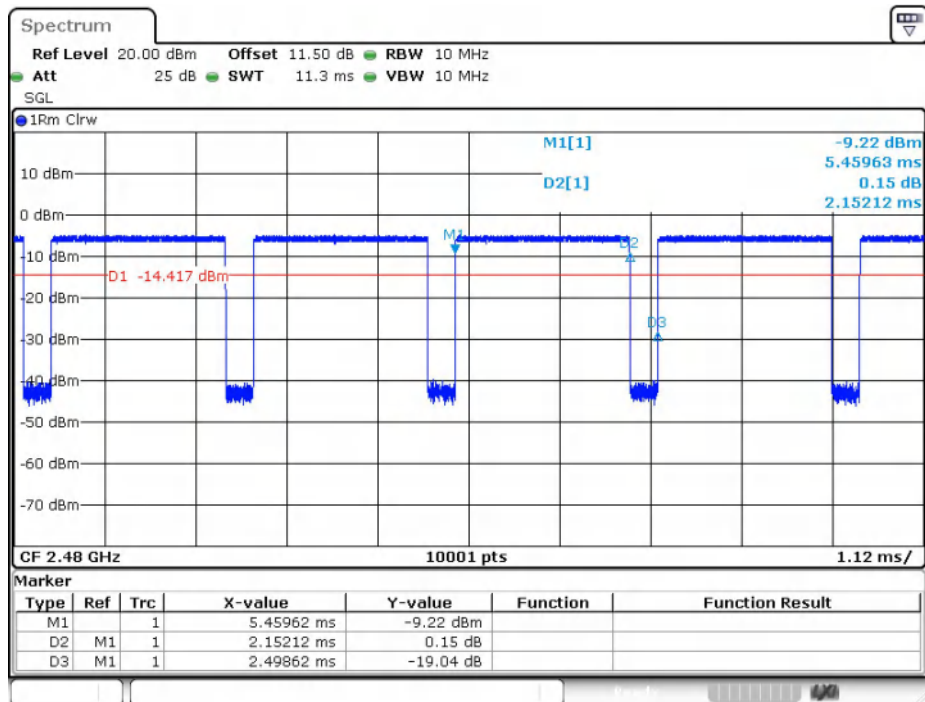
Date: 5.SEP.2024 16:35:41

BLE 1M_Channel 0



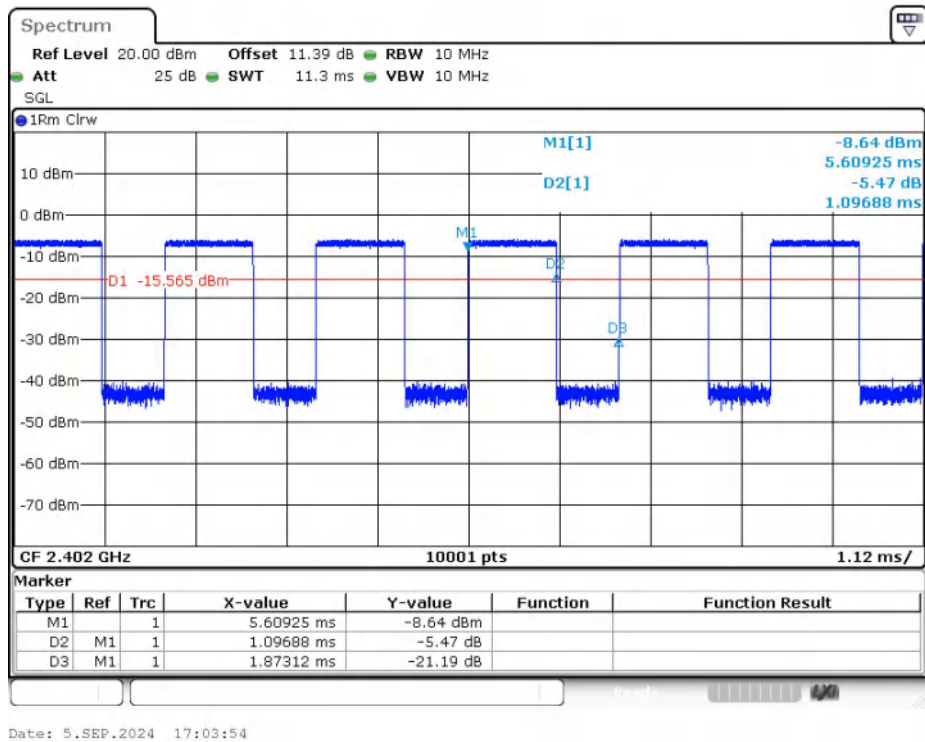
Date: 5.SEP.2024 16:38:37

BLE 1M_Channel 19

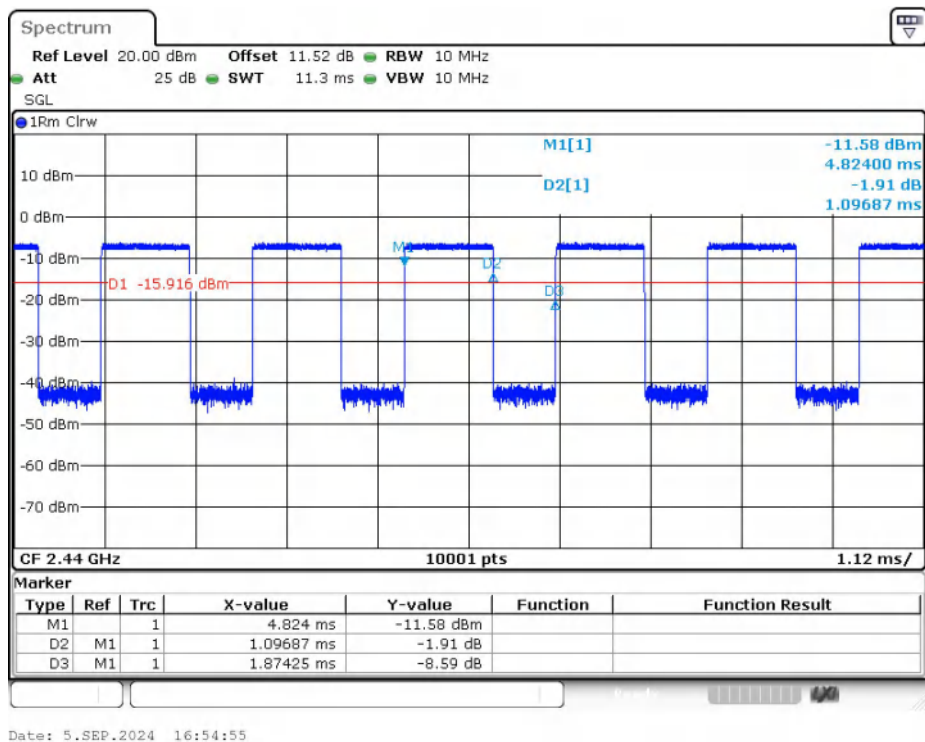


Date: 5.SEP.2024 16:41:13

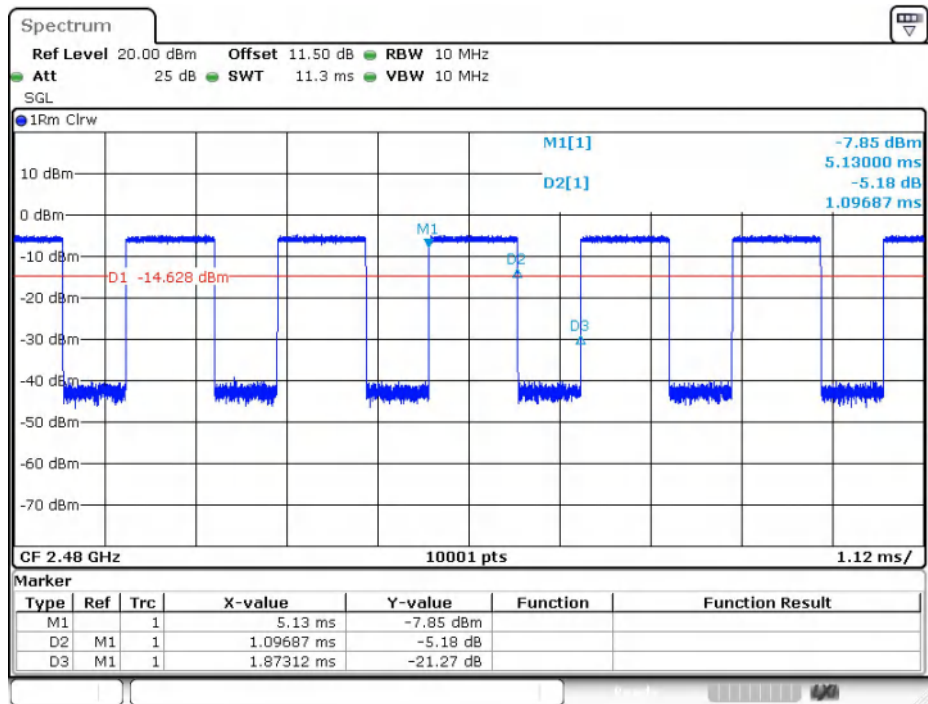
BLE 1M_Channel 39



BLE 2M_Channel 0



BLE 2M_Channel 19



Date: 5.SEP.2024 16:57:59

BLE 2M_Channel 39

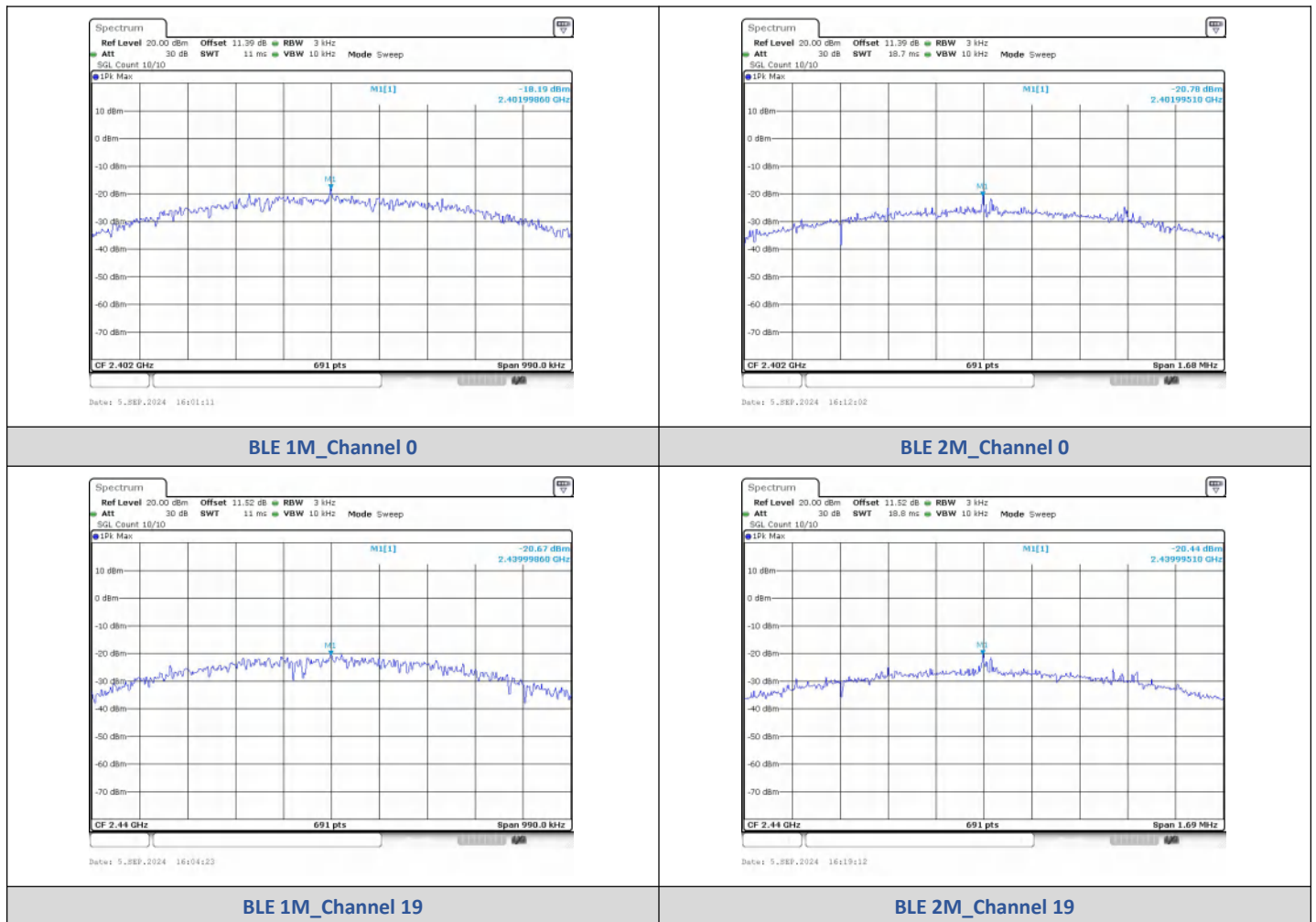
6) Power Spectral Density

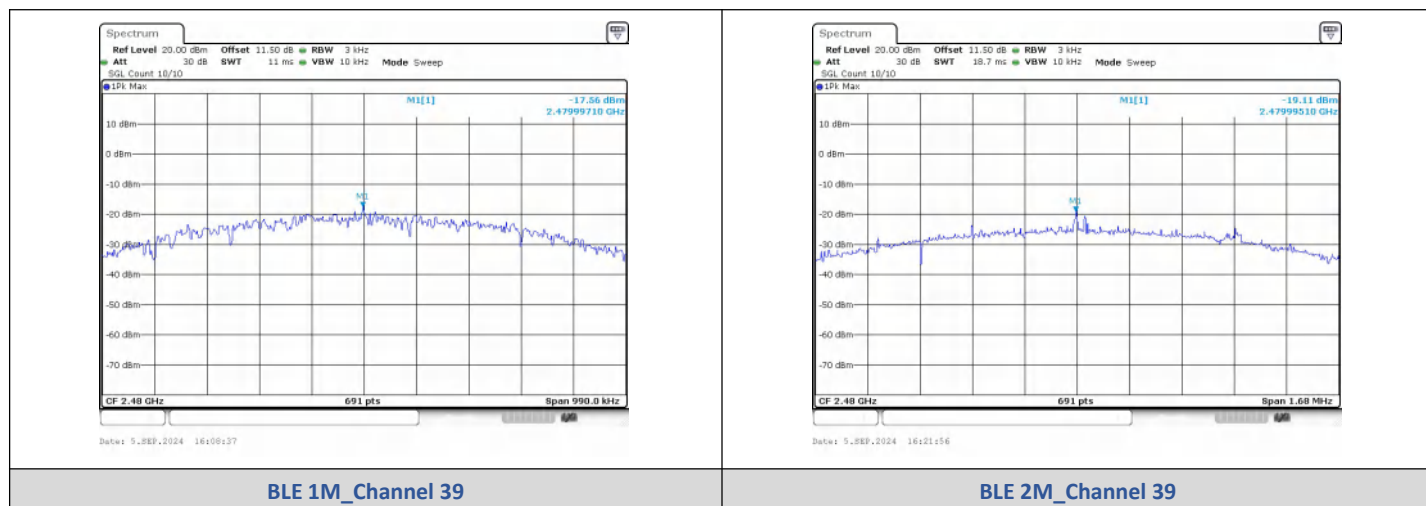
Right:

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-18.185	≤8	PASS
BLE 1M	19	-20.673	≤8	PASS
BLE 1M	39	-17.558	≤8	PASS
BLE 2M	0	-20.783	≤8	PASS
BLE 2M	19	-20.440	≤8	PASS
BLE 2M	39	-19.106	≤8	PASS

Test Graphs



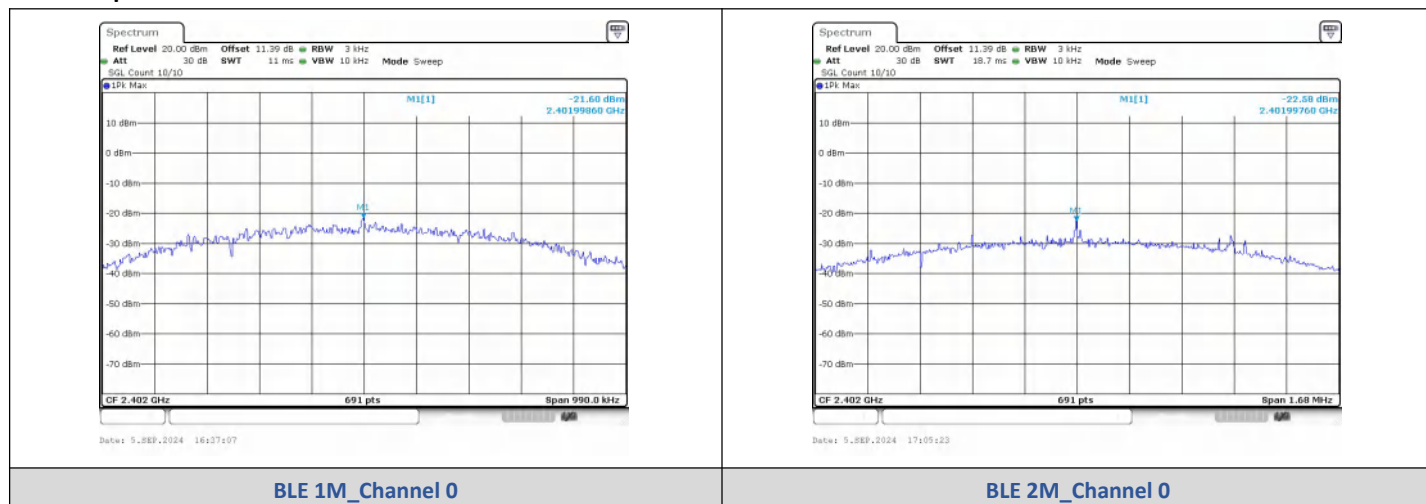


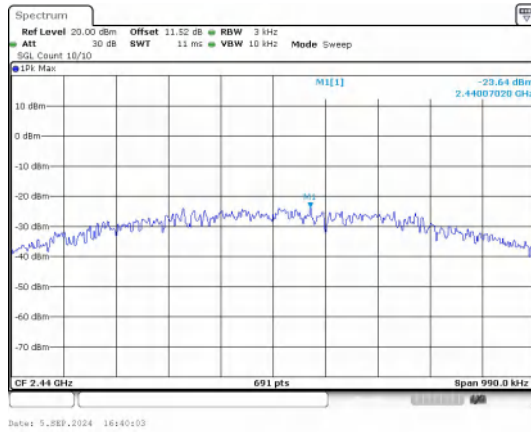
Left:

Test Result

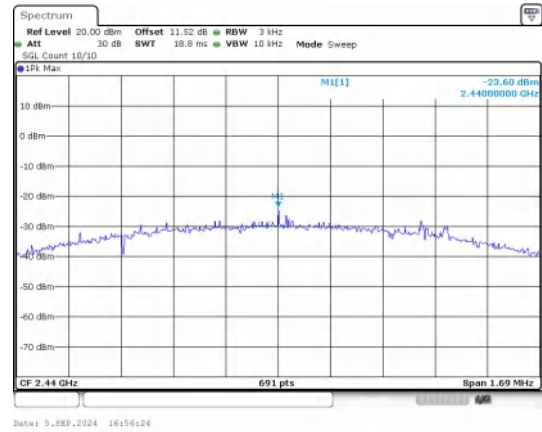
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-21.605	≤8	PASS
BLE 1M	19	-23.637	≤8	PASS
BLE 1M	39	-19.461	≤8	PASS
BLE 2M	0	-22.583	≤8	PASS
BLE 2M	19	-23.601	≤8	PASS
BLE 2M	39	-22.303	≤8	PASS

Test Graphs

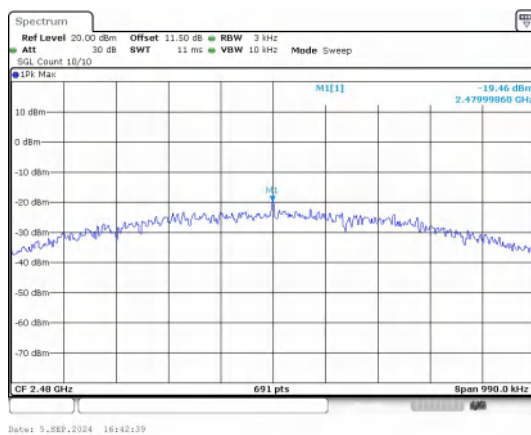




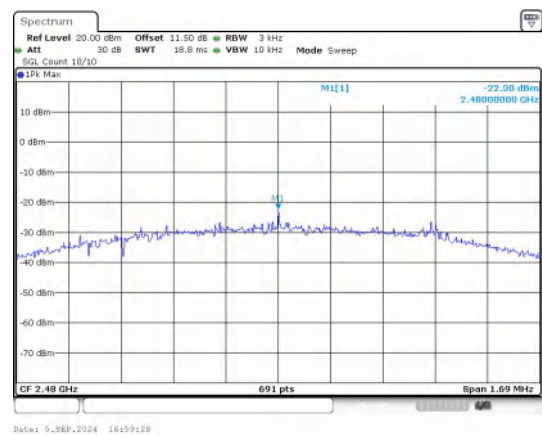
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



BLE 2M_Channel 39