Appendix A

Report No.:	CISRR240911102
FCC ID:	2BDZJ-YD08
Product Name:	wireless headphone
Model No.:	YD08
Test Engineer:	Jimmy Huang
Supervised by:	Rory Huang

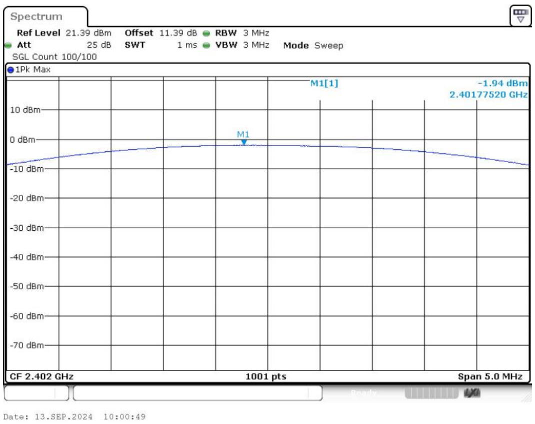
1) Conducted Output Power

Right:

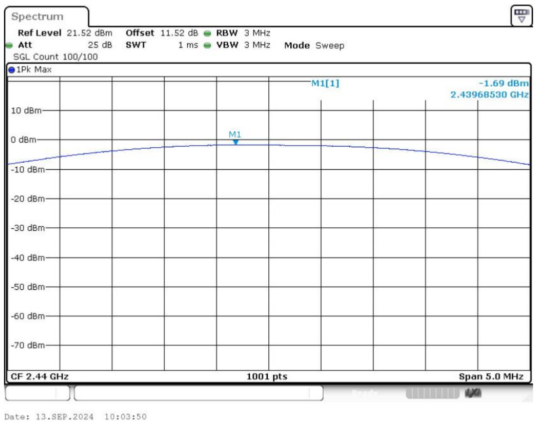
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	-1.94	0.64	≤30	PASS
	19	-1.69	0.68	≤30	PASS
	39	-1.50	0.71	≤30	PASS
BLE 2M	0	-1.73	0.67	≤30	PASS
	19	-1.40	0.73	≤30	PASS
	39	-1.11	0.78	≤30	PASS

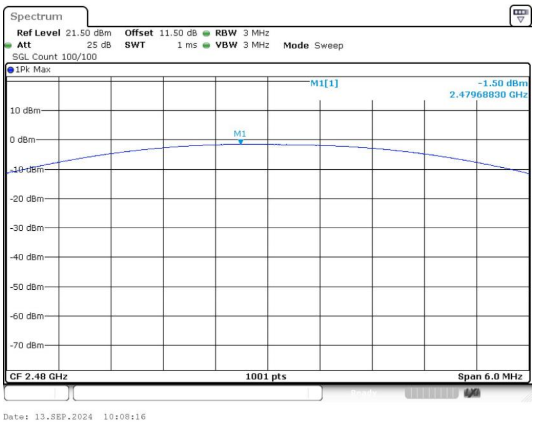
Test Graphs



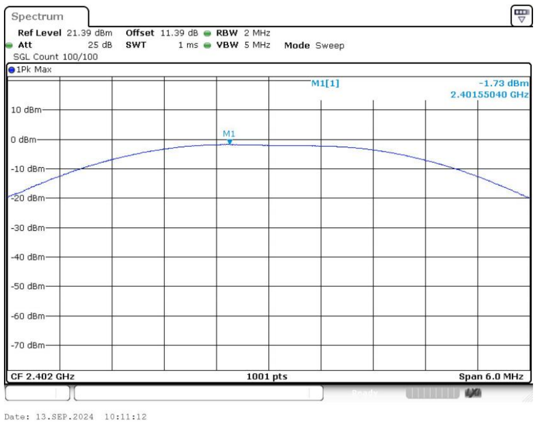
Peak Output Power
BLE 1M_Channel 0



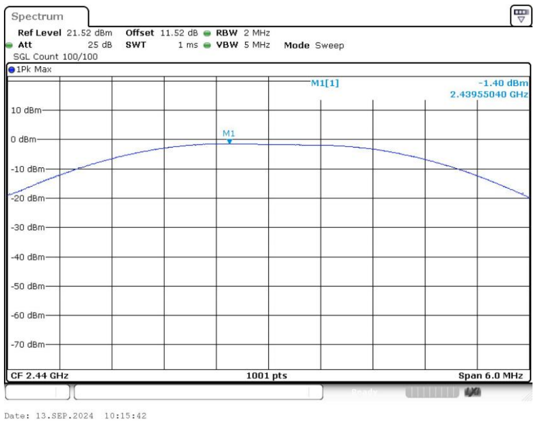
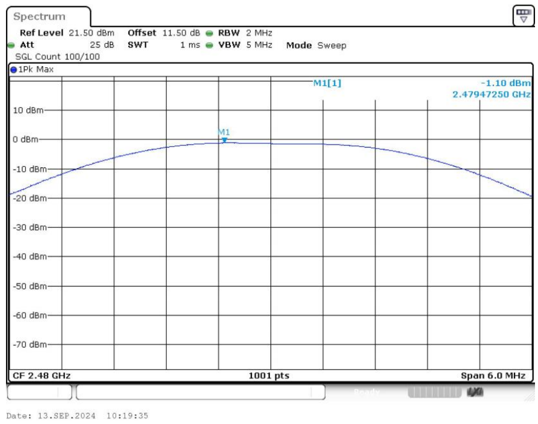
Peak Output Power
BLE 1M_Channel 19



Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0

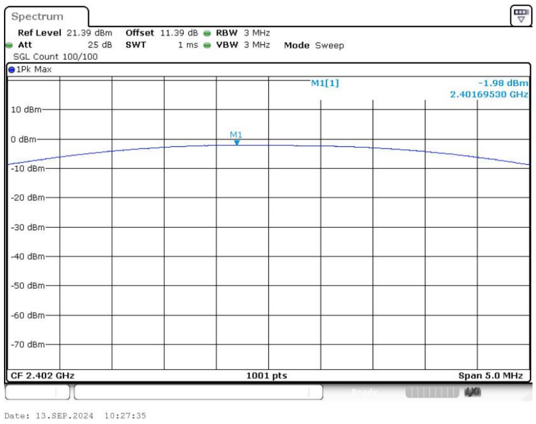
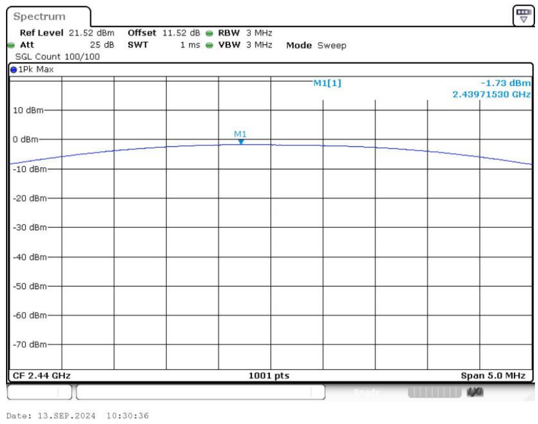
	
Peak Output Power BLE 2M_Channel 19	Peak Output Power BLE 2M_Channel 39

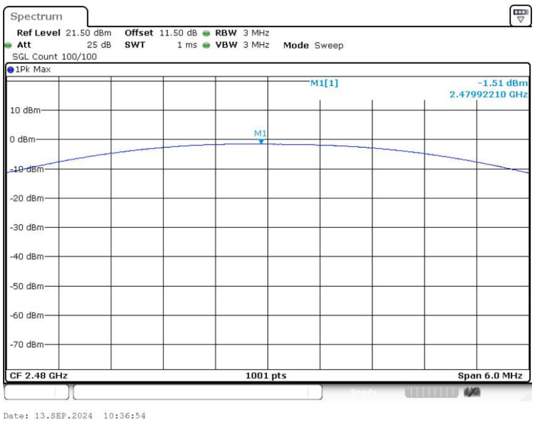
Left:

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	-1.98	0.63	≤30	PASS
	19	-1.73	0.67	≤30	PASS
	39	-1.51	0.71	≤30	PASS
BLE 2M	0	-1.79	0.66	≤30	PASS
	19	-1.49	0.71	≤30	PASS
	39	-1.22	0.76	≤30	PASS

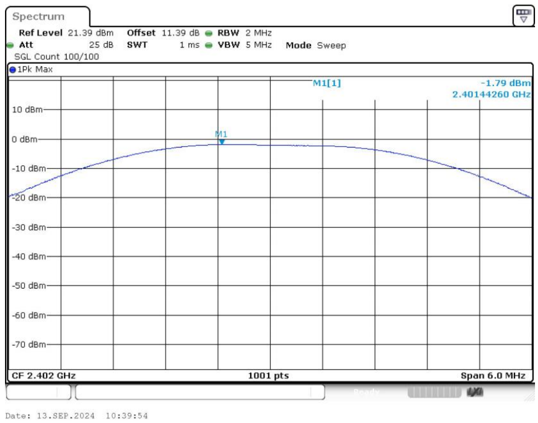
Test Graphs

	
Peak Output Power BLE 1M_Channel 0	Peak Output Power BLE 1M_Channel 19



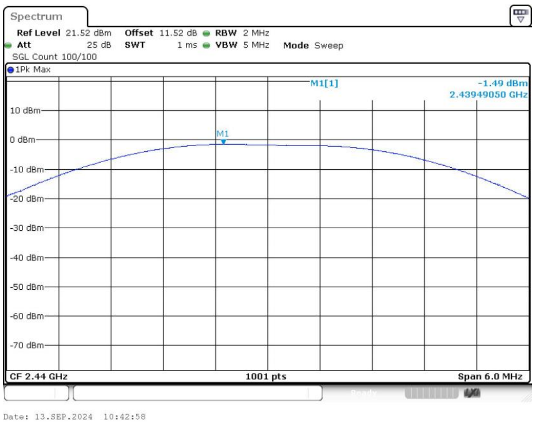
Peak Output Power

BLE 1M_Channel 39



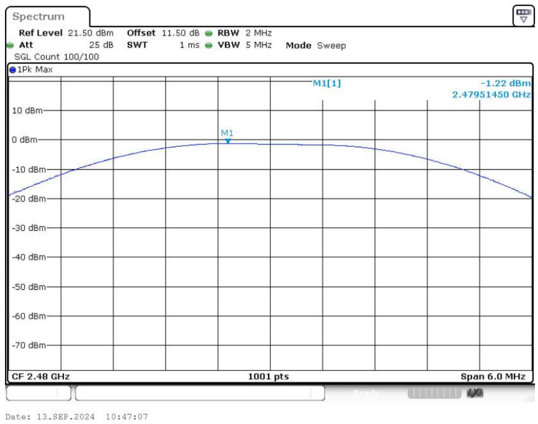
Peak Output Power

BLE 2M_Channel 0



Peak Output Power

BLE 2M_Channel 19



Peak Output Power

BLE 2M_Channel 39

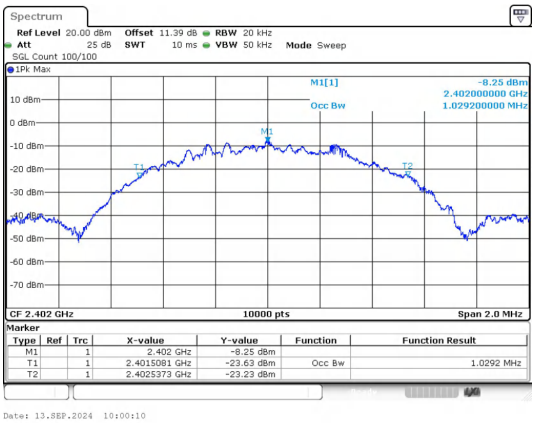
2) 99% Bandwidth

Right：

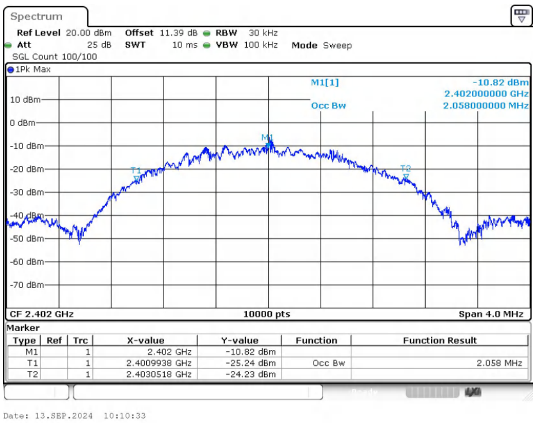
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0292
BLE 1M	19	2440	1.0328
BLE 1M	39	2480	1.0344
BLE 2M	0	2402	2.0580
BLE 2M	19	2440	2.0528
BLE 2M	39	2480	2.0628

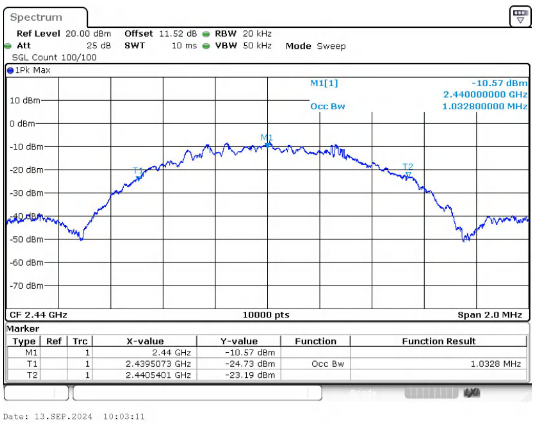
Test Graphs



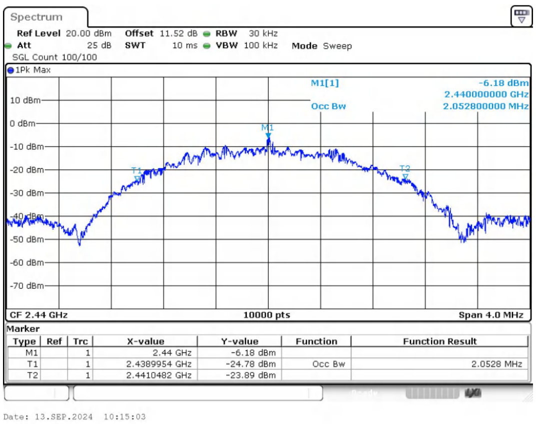
BLE 1M_Channel 0



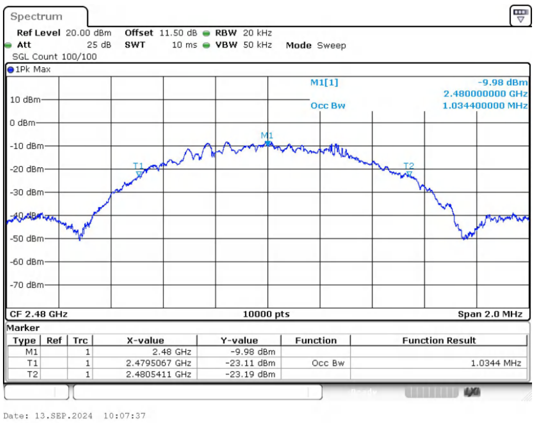
BLE 2M_Channel 0



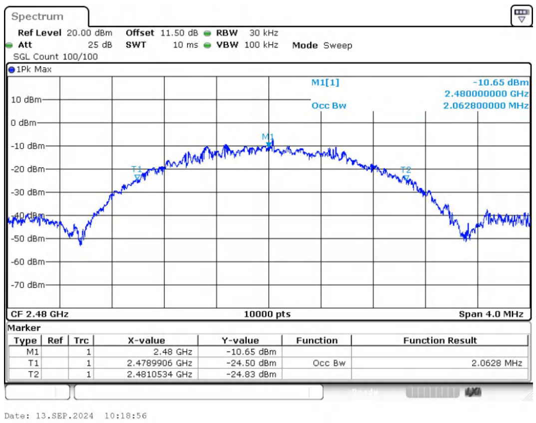
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



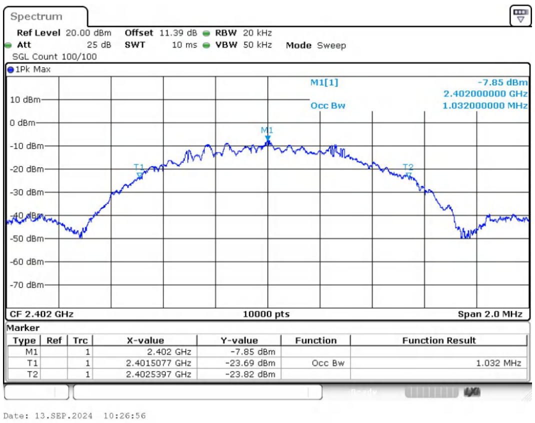
BLE 2M_Channel 39

Left:

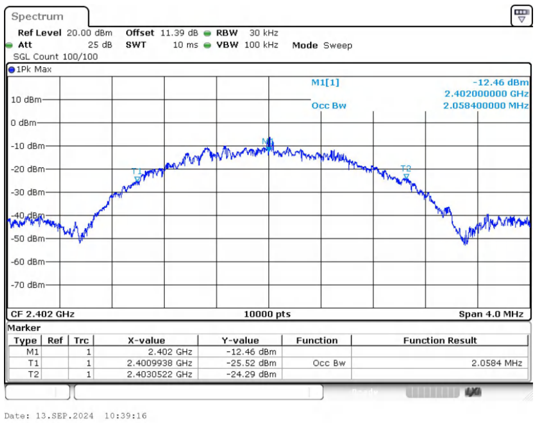
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0322
BLE 1M	19	2440	1.0300
BLE 1M	39	2480	1.0324
BLE 2M	0	2402	2.0584
BLE 2M	19	2440	2.0528
BLE 2M	39	2480	2.0564

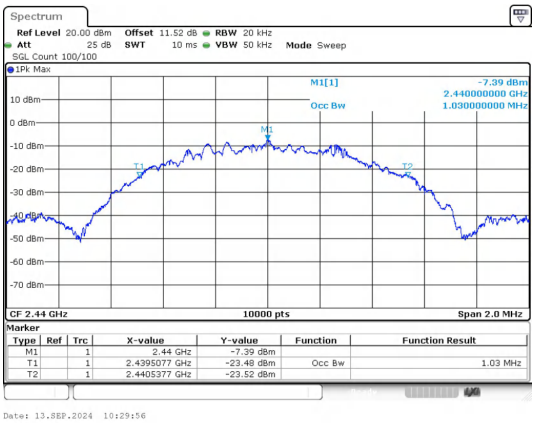
Test Graphs



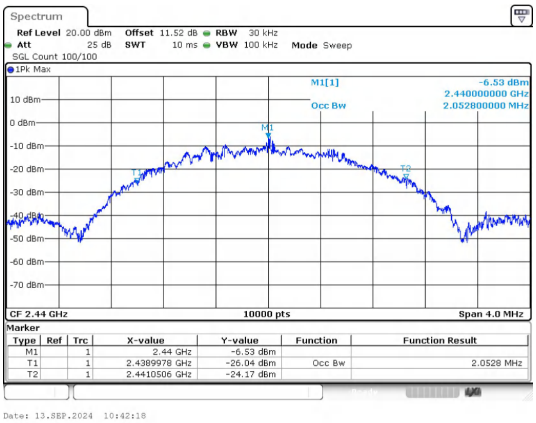
BLE 1M_Channel 0



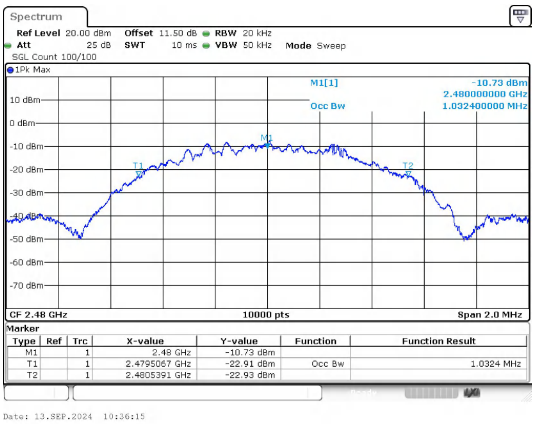
BLE 2M_Channel 0



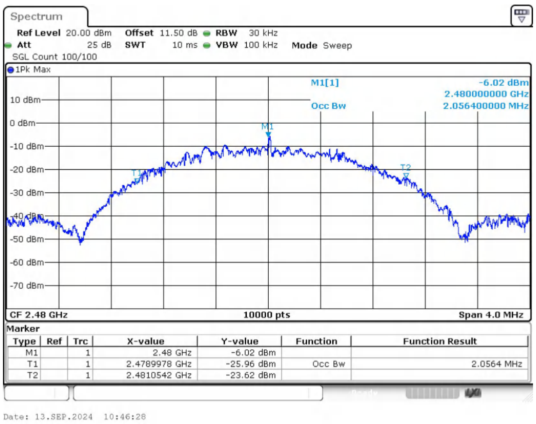
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



BLE 2M_Channel 39

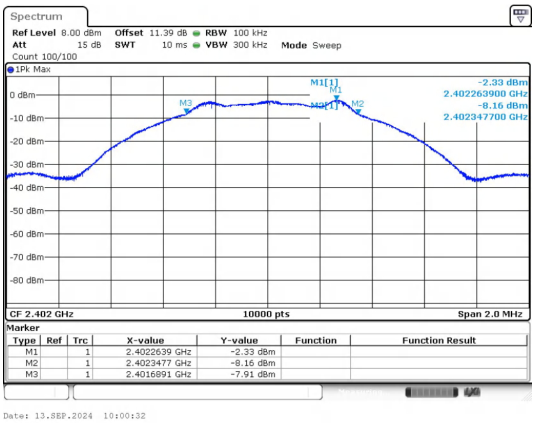
3) 6dB Bandwidth

Right:

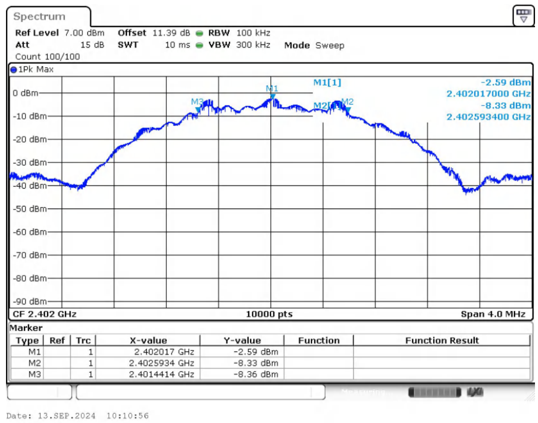
Test Result

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	1.150		PASS
	19	2440	1.130		PASS
	39	2480	1.140		PASS

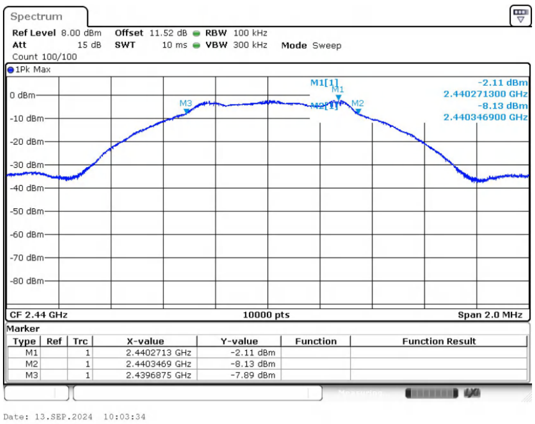
Test Graphs



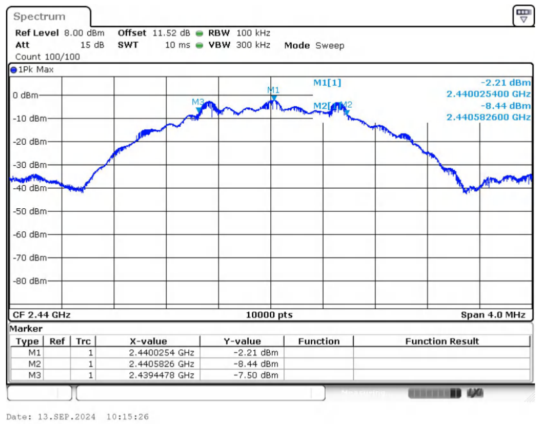
BLE 1M_Channel 0



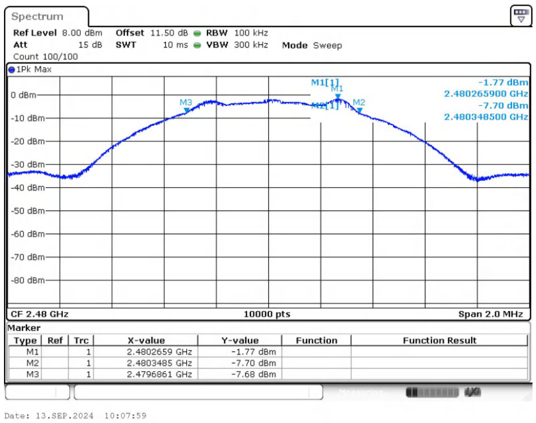
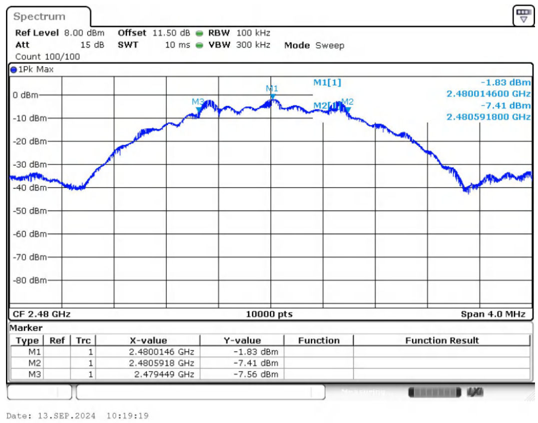
BLE 2M_Channel 0



BLE 1M_Channel 19



BLE 2M_Channel 19

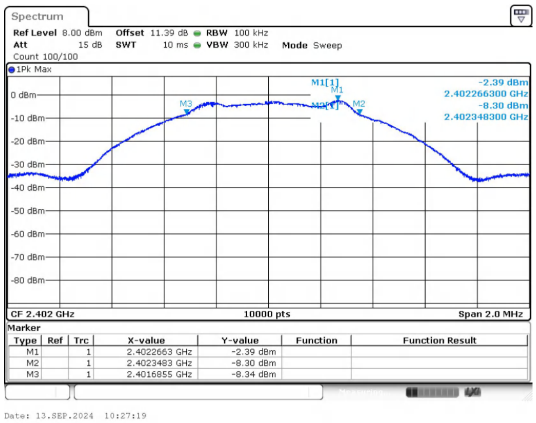
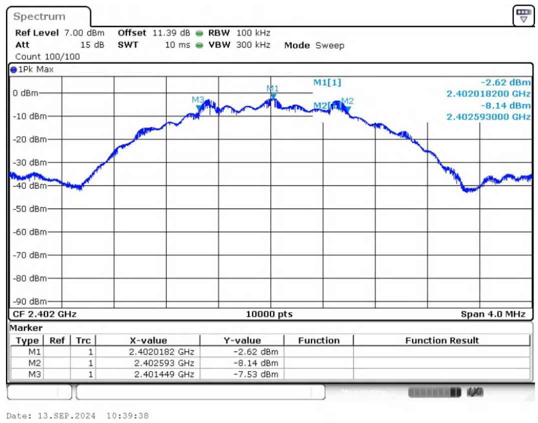
	
BLE 1M_Channel 39	BLE 2M_Channel 39

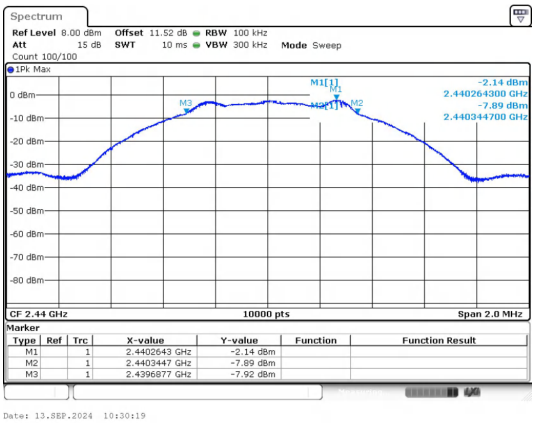
Left:

Test Result

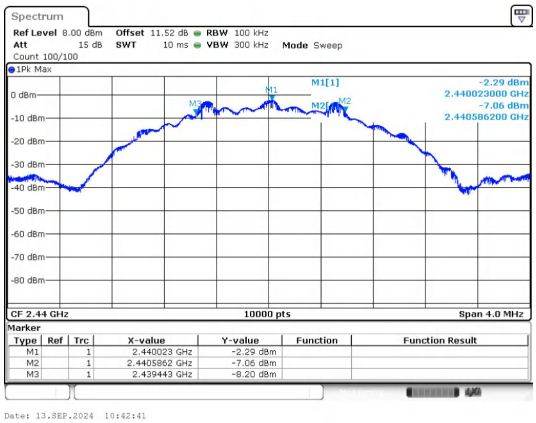
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6500		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.140		PASS
	19	2440	1.150		PASS
	39	2480	1.150		PASS

Test Graphs

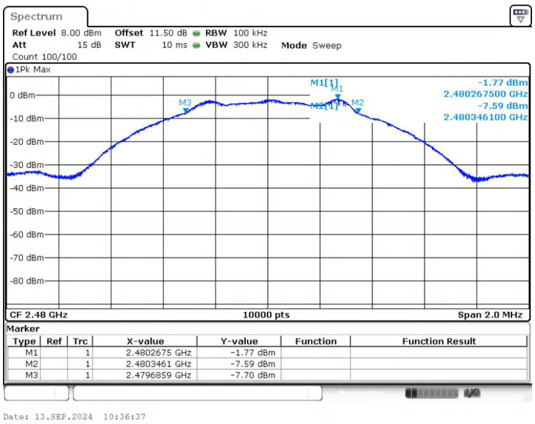
	
BLE 1M_Channel 0	BLE 2M_Channel 0



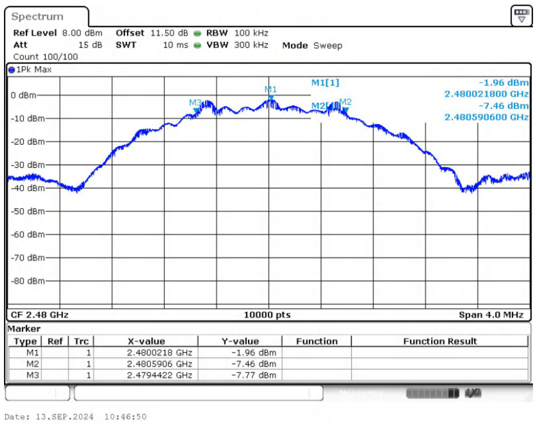
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



BLE 2M_Channel 39

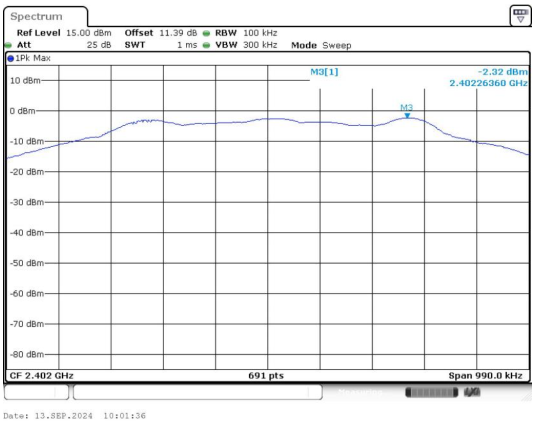
4) Conducted Out Of Band Emission

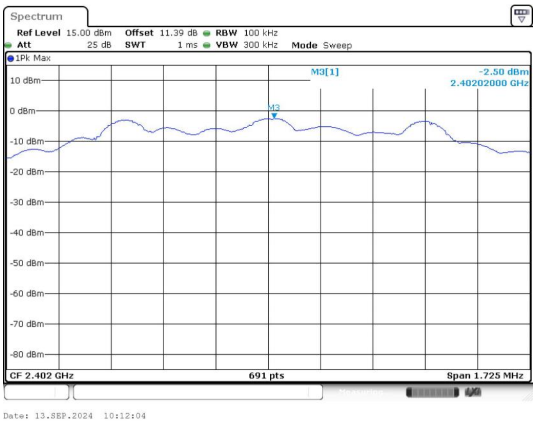
Right:

Test Result

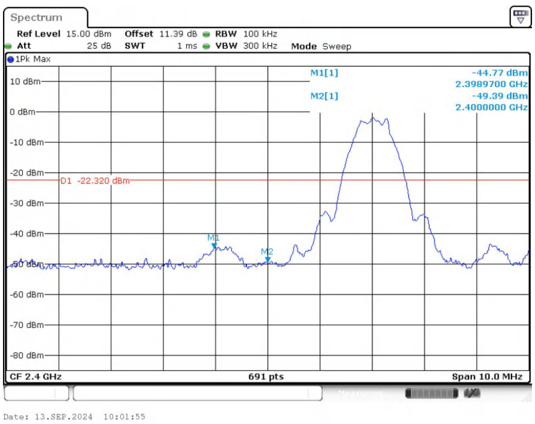
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.97	-44.772	-22.32	-22.452	PASS
		2400.00	-49.390	-22.32	-27.070	PASS
		9602.20	-38.705	-22.32	-16.385	PASS
	19	9753.73	-34.412	-22.07	-12.342	PASS
	39	2483.50	-45.512	-21.85	-23.662	PASS
		9914.37	-35.559	-21.85	-13.709	PASS
BLE 2M	0	2400.00	-35.236	-22.5	-12.736	PASS
		9602.25	-39.071	-22.5	-16.571	PASS
	19	9753.73	-34.563	-22.18	-12.383	PASS
	39	2483.50	-50.070	-21.88	-28.190	PASS
		9914.37	-35.517	-21.88	-13.637	PASS

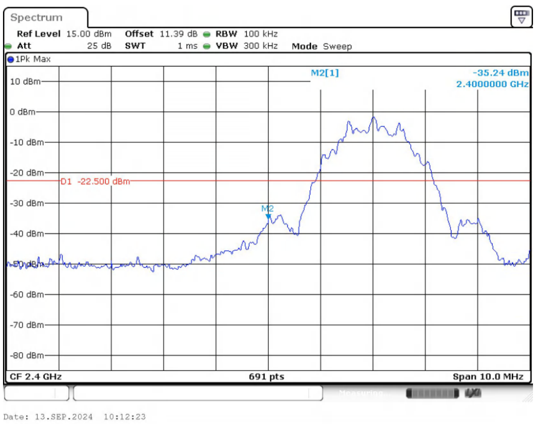
Test Graphs

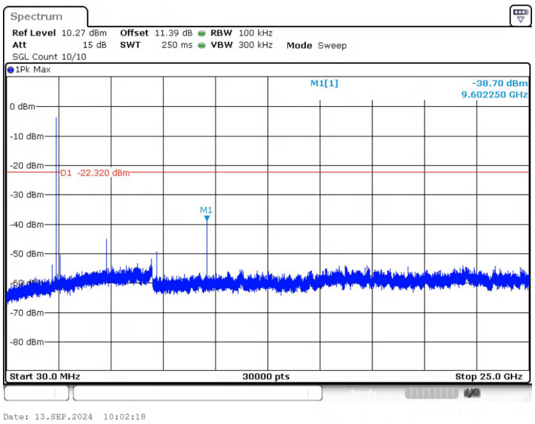
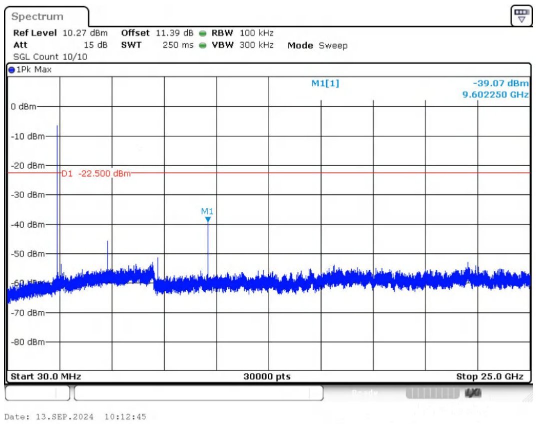
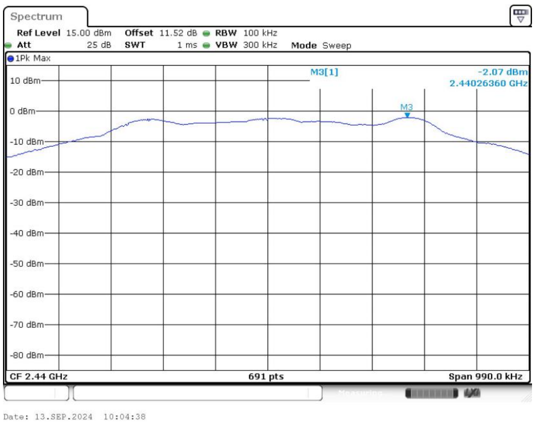
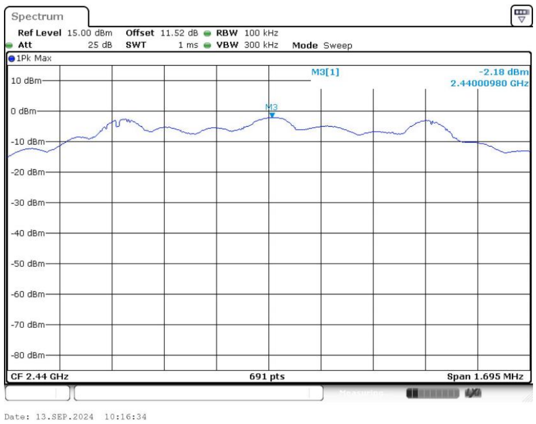
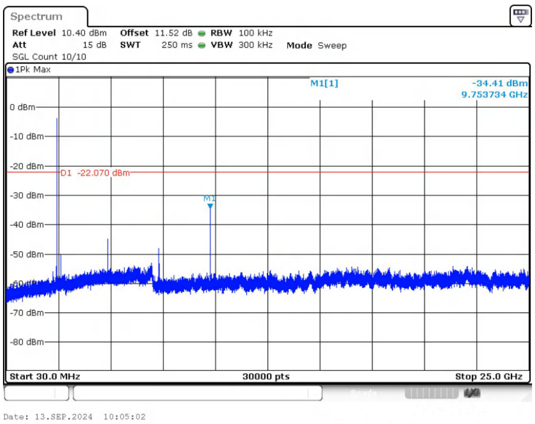
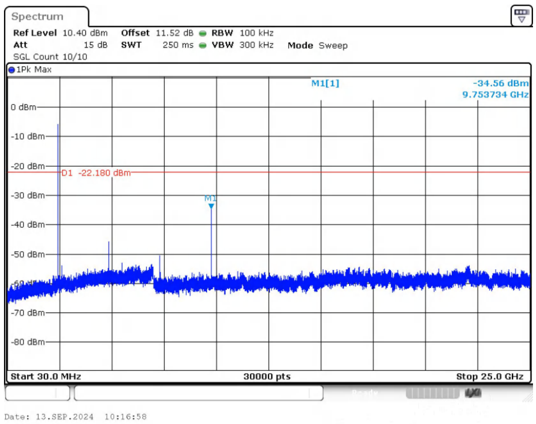


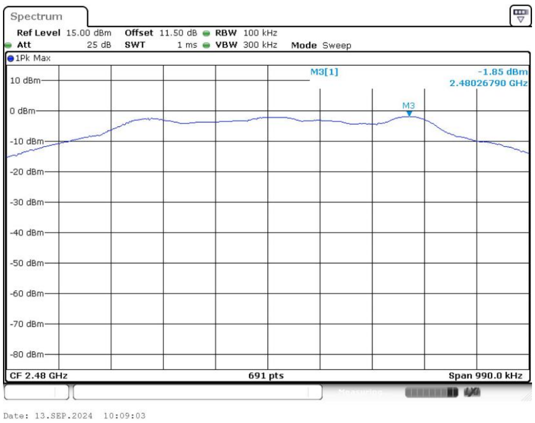


In-Band Reference Level BLE 1M_Channel 0	In-Band Reference Level BLE 2M_Channel 0



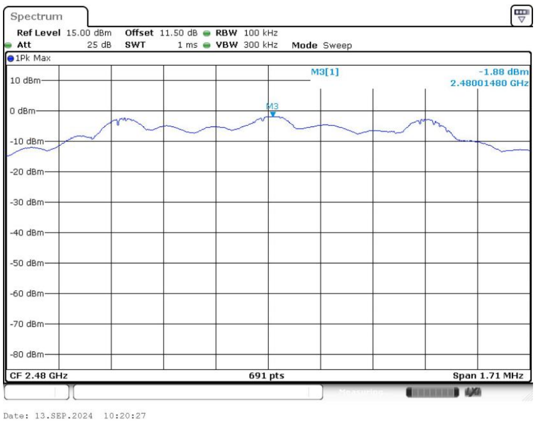


<table>
<tr><th>Out Of Band Emission
BLE 1M_Channel 0</th><th>Out Of Band Emission
BLE 2M_Channel 0</th></tr>
<tr><td>
</td><td>
</td></tr>
<tr><th>30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0</th><th>30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0</th></tr>
<tr><td>
</td><td>
</td></tr>
<tr><th>In-Band Reference Level
BLE 1M_Channel 19</th><th>In-Band Reference Level
BLE 2M_Channel 19</th></tr>
<tr><td>
</td><td>
</td></tr>
<tr><th>30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19</th><th>30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19</th></tr>
</table>



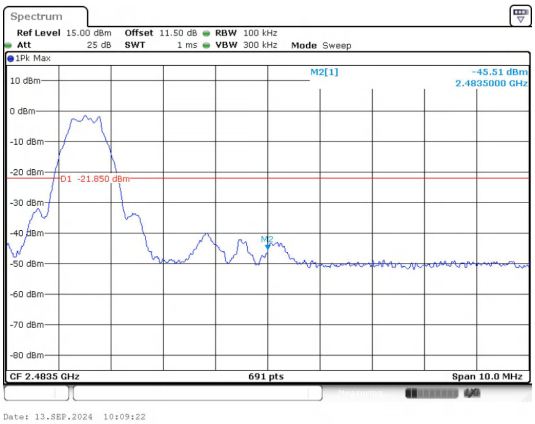
In-Band Reference Level

BLE 1M_Channel 39



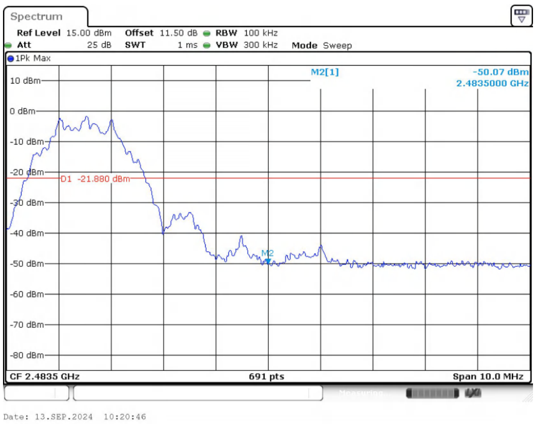
In-Band Reference Level

BLE 2M_Channel 39



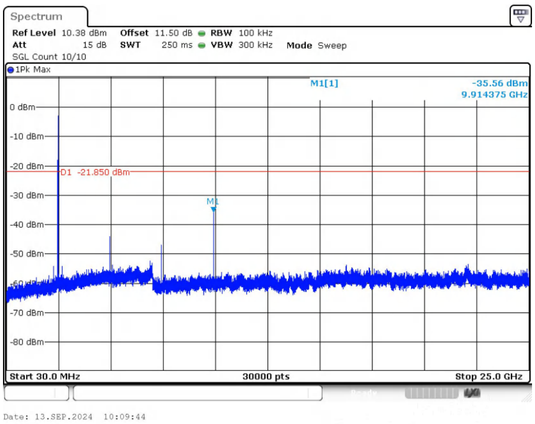
Out Of Band Emission

BLE 1M_Channel 39



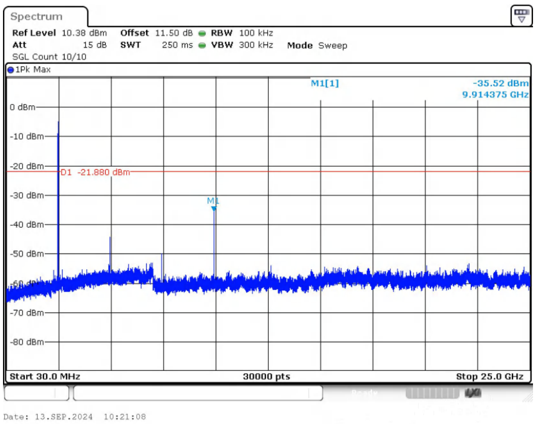
Out Of Band Emission

BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz

BLE 1M_Channel 39



30.0 MHz - 25000.0 MHz

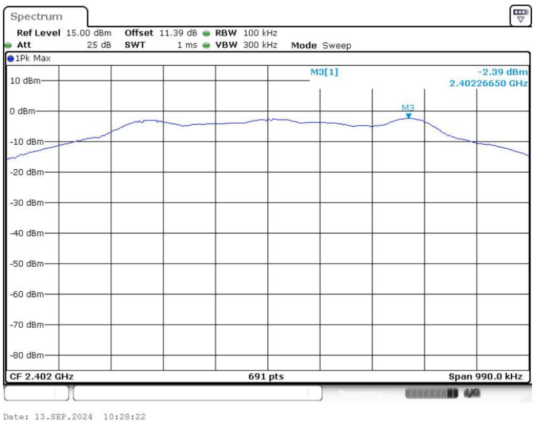
BLE 2M_Channel 39

Left:

Test Result

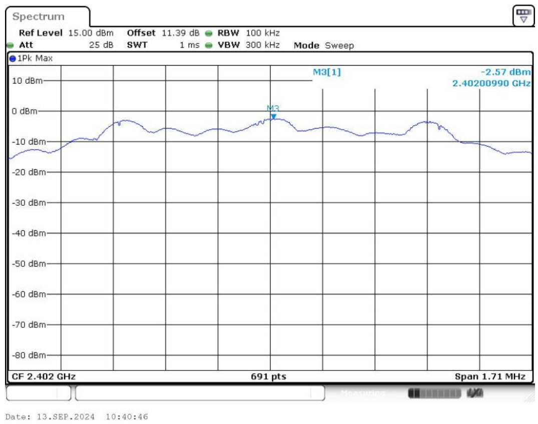
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.97	-44.663	-22.39	-22.273	PASS
		2400.00	-48.842	-22.39	-26.452	PASS
		9602.20	-38.898	-22.39	-16.508	PASS
	19	9753.73	-34.540	-22.13	-12.410	PASS
	39	2483.50	-46.345	-21.88	-24.465	PASS
		9914.37	-35.577	-21.88	-13.697	PASS
BLE 2M	0	2400.00	-34.736	-22.57	-12.166	PASS
		9602.25	-38.937	-22.57	-16.367	PASS
	19	9753.73	-34.537	-22.22	-12.317	PASS
	39	2483.50	-49.726	-21.96	-27.766	PASS
		9914.37	-35.268	-21.96	-13.308	PASS

Test Graphs



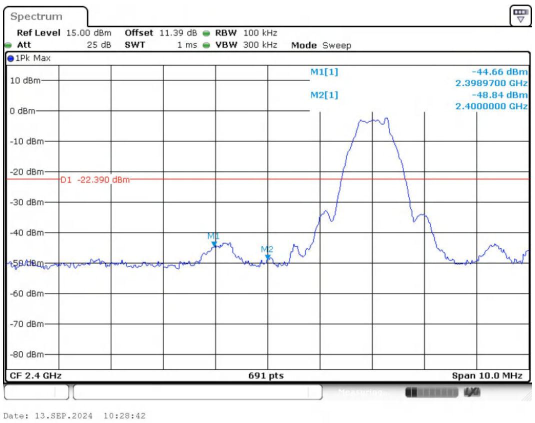
In-Band Reference Level

BLE 1M_Channel 0



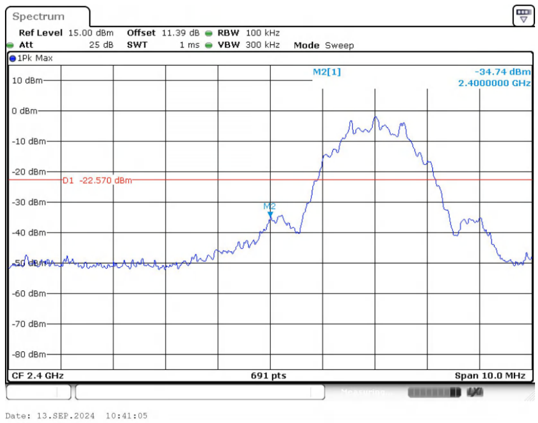
In-Band Reference Level

BLE 2M_Channel 0



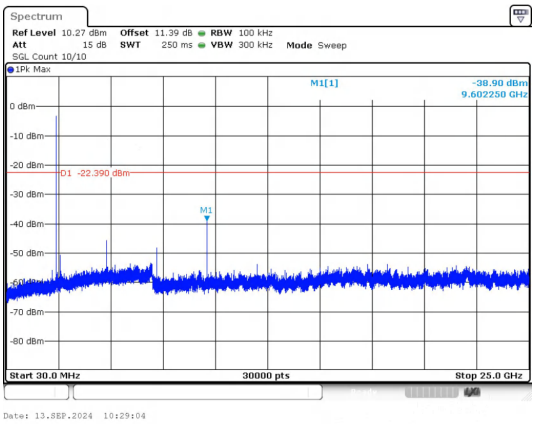
Out Of Band Emission

BLE 1M_Channel 0



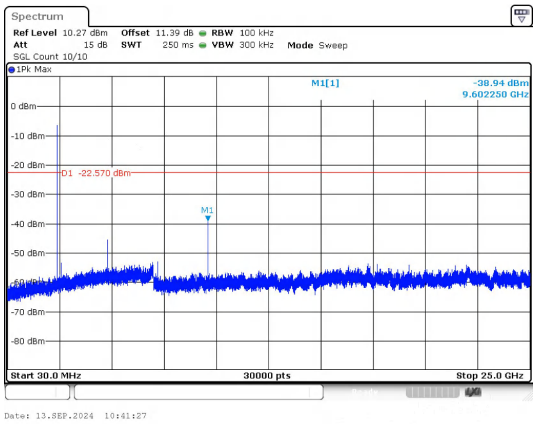
Out Of Band Emission

BLE 2M_Channel 0



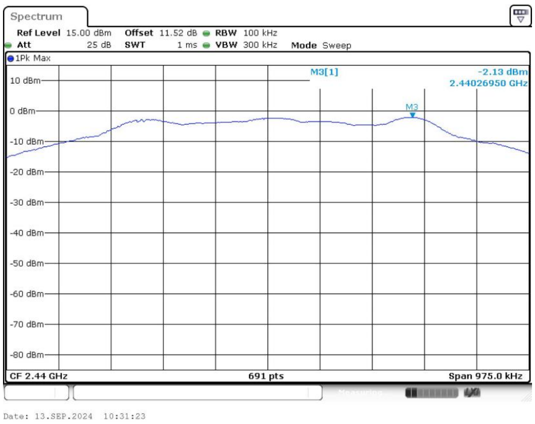
30.0 MHz - 25000.0 MHz

BLE 1M_Channel 0



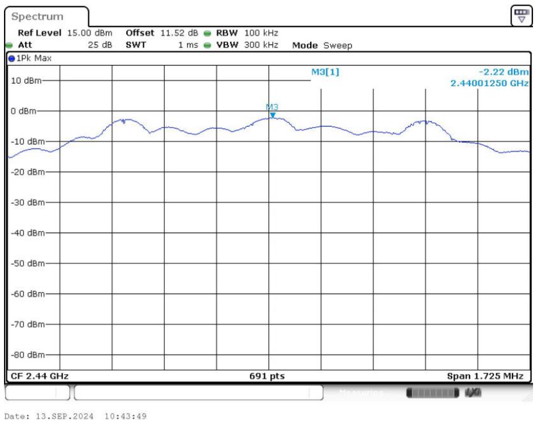
30.0 MHz - 25000.0 MHz

BLE 2M_Channel 0



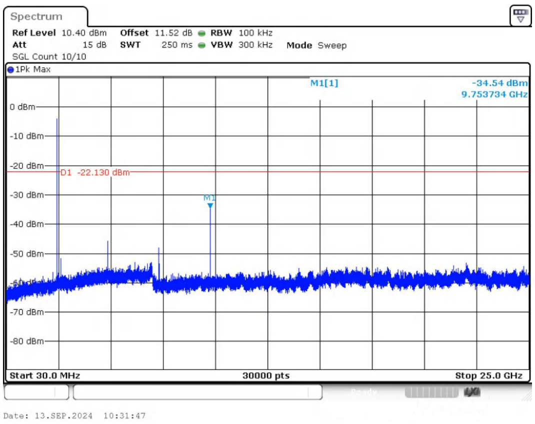
In-Band Reference Level

BLE 1M_Channel 19



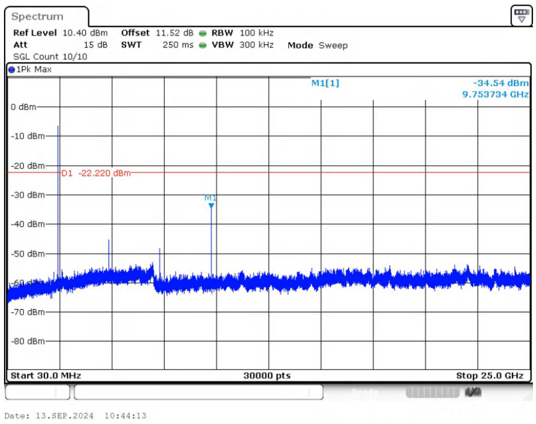
In-Band Reference Level

BLE 2M_Channel 19



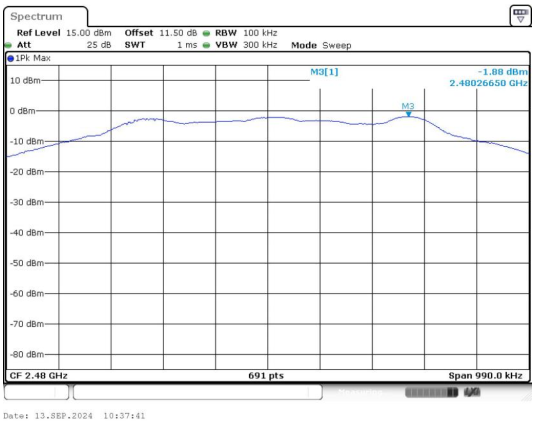
30.0 MHz - 25000.0 MHz

BLE 1M_Channel 19



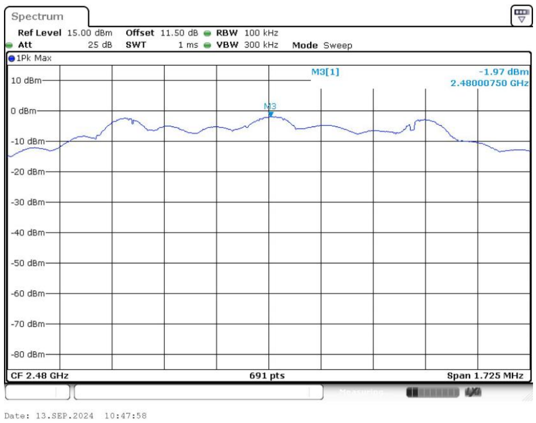
30.0 MHz - 25000.0 MHz

BLE 2M_Channel 19



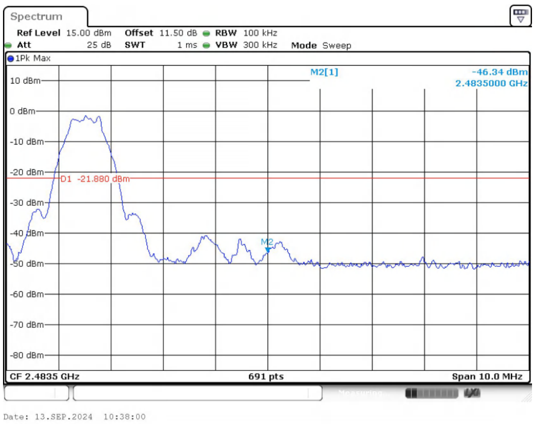
In-Band Reference Level

BLE 1M_Channel 39



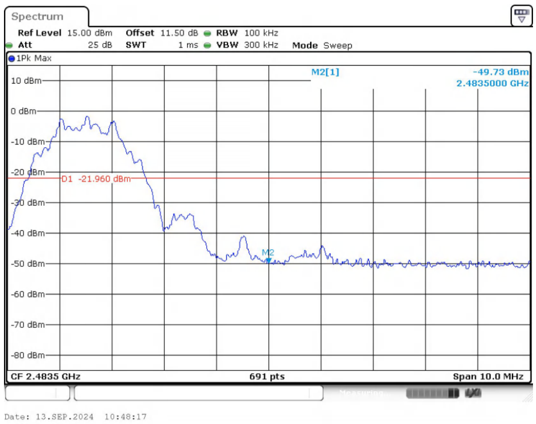
In-Band Reference Level

BLE 2M_Channel 39



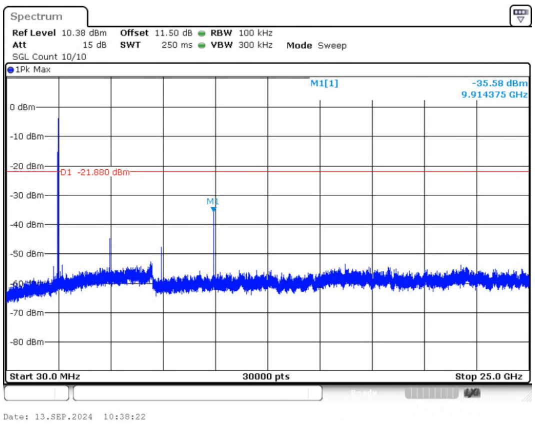
Out Of Band Emission

BLE 1M_Channel 39



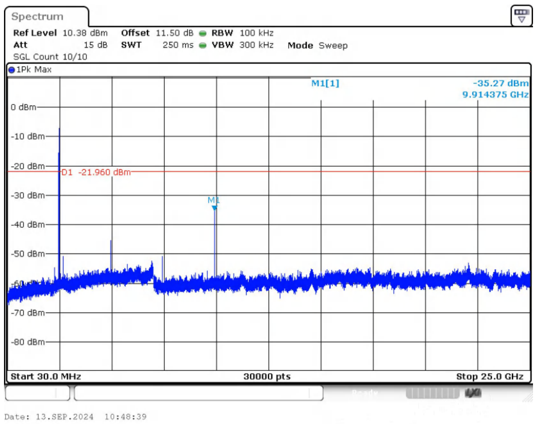
Out Of Band Emission

BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz

BLE 1M_Channel 39



30.0 MHz - 25000.0 MHz

BLE 2M_Channel 39

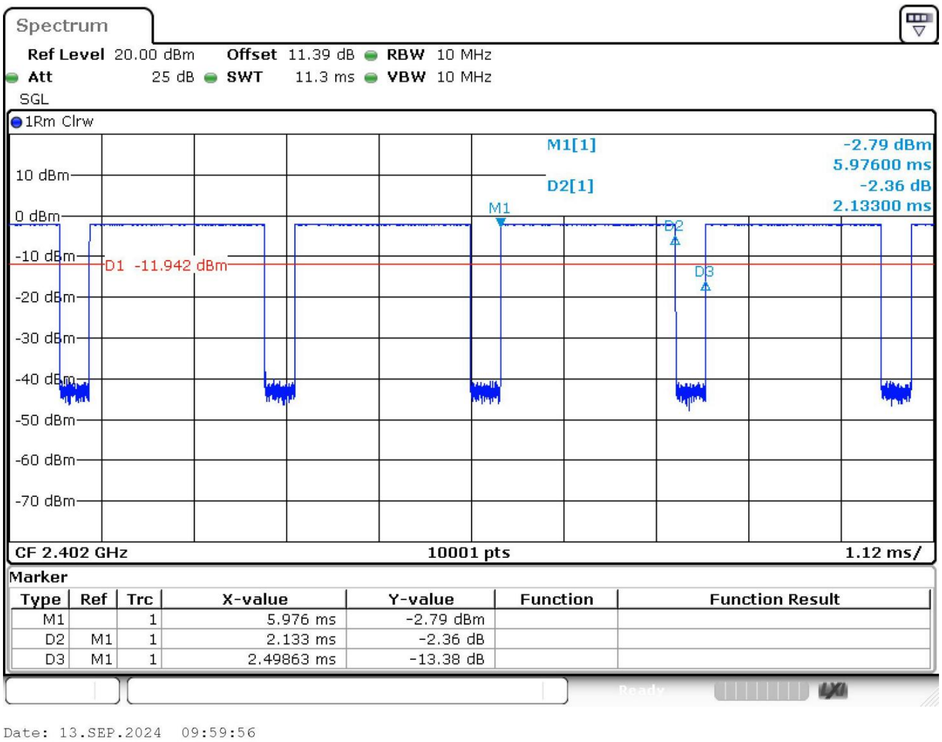
5) Duty Cycle

Right:

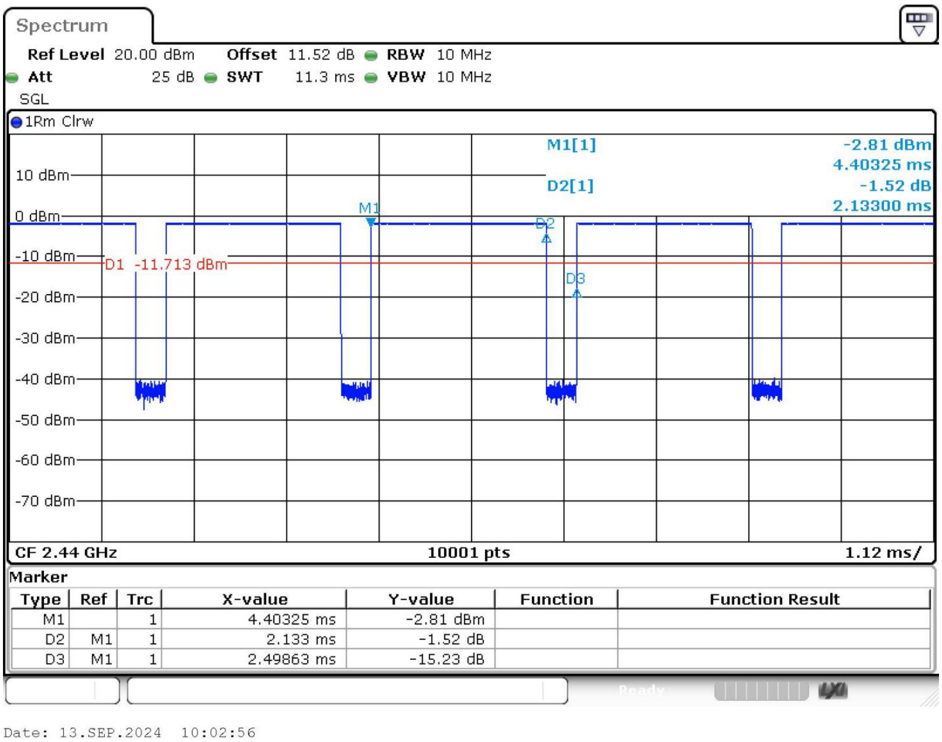
Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.133	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	2.500	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

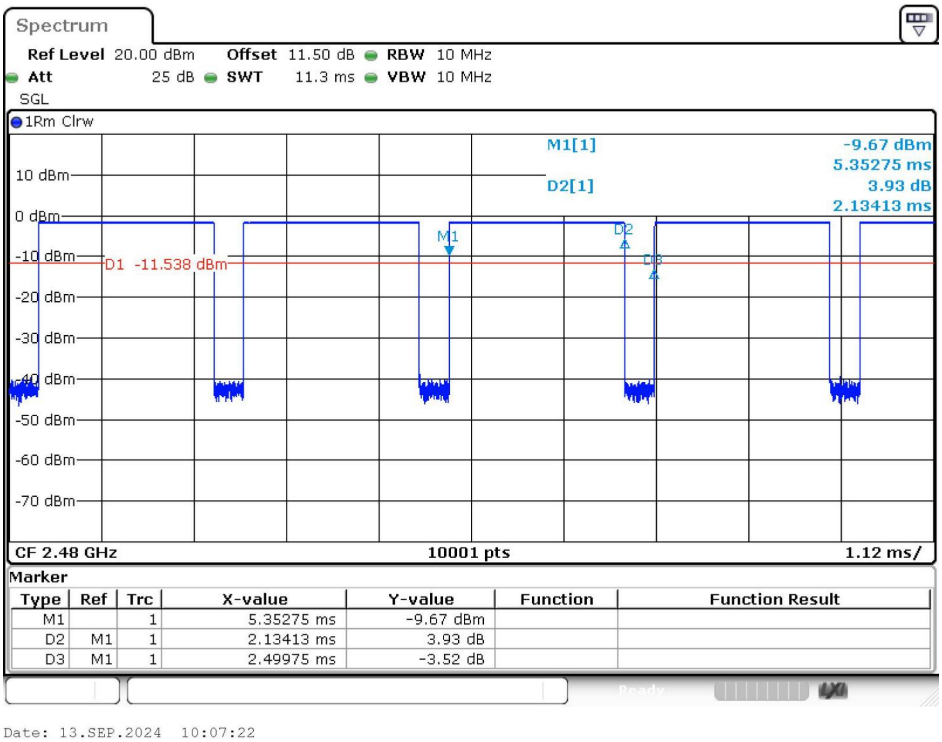
Test Graphs



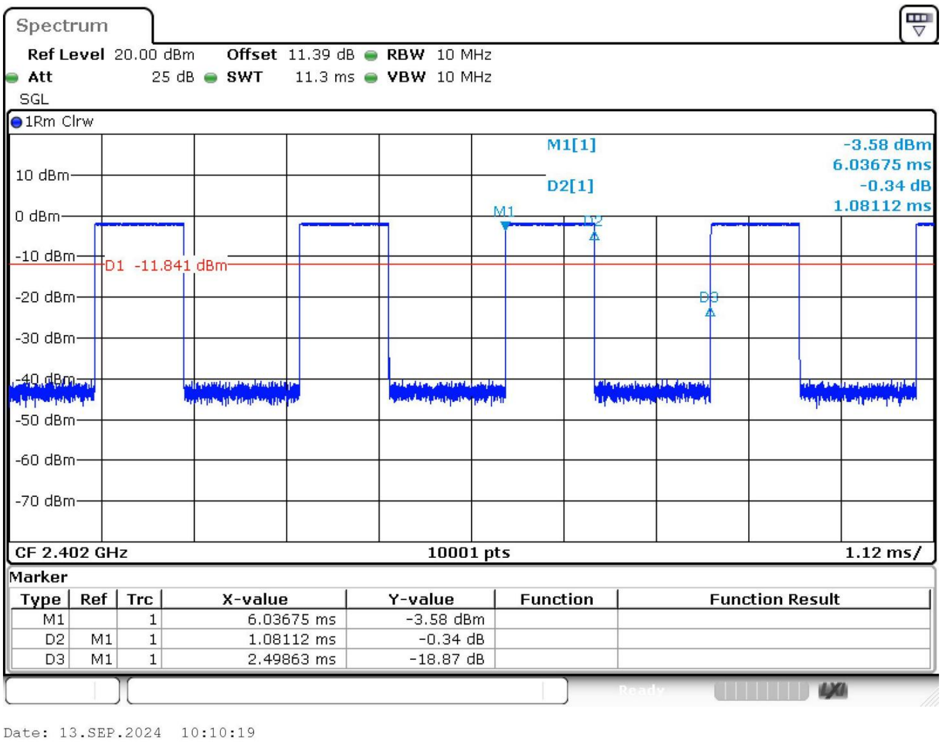
BLE 1M_Channel 0



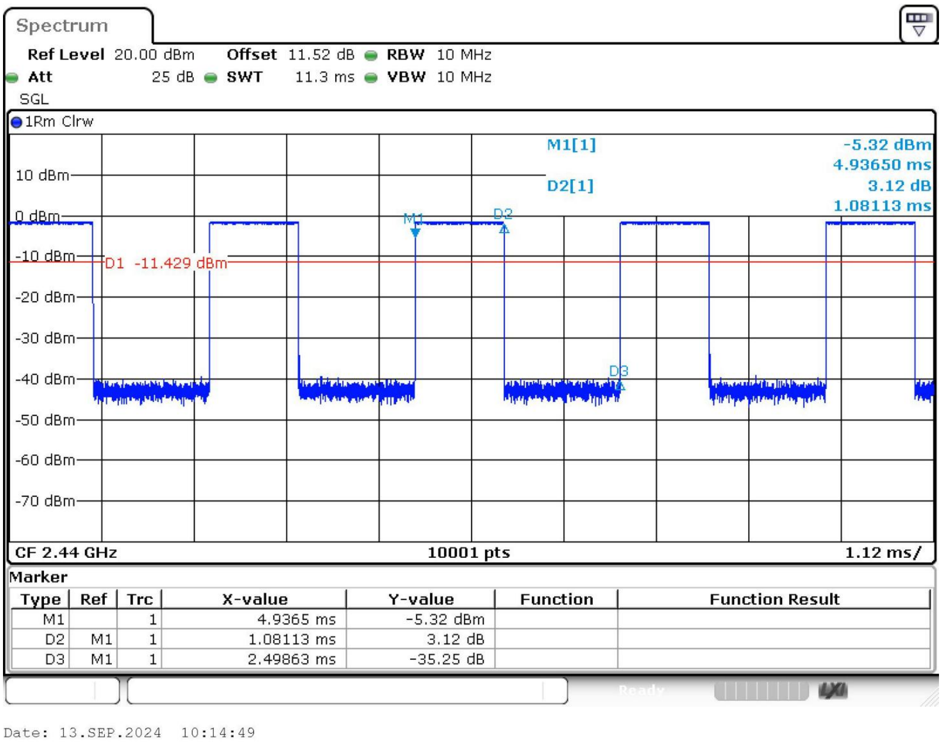
BLE 1M_Channel 19



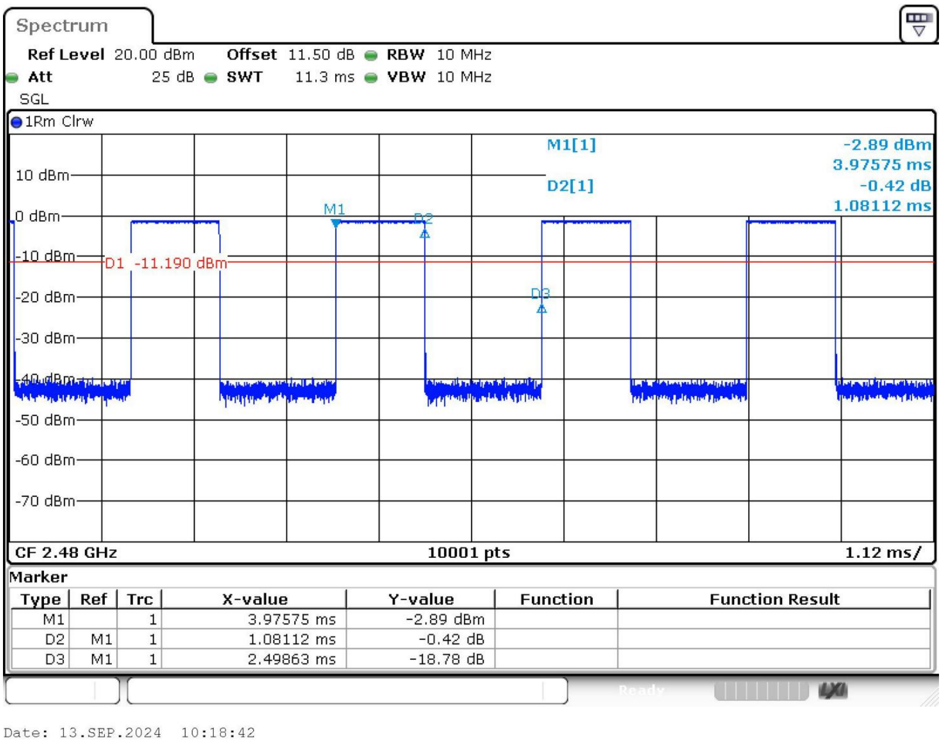
BLE 1M_Channel 39



BLE 2M_Channel 0



BLE 2M_Channel 19



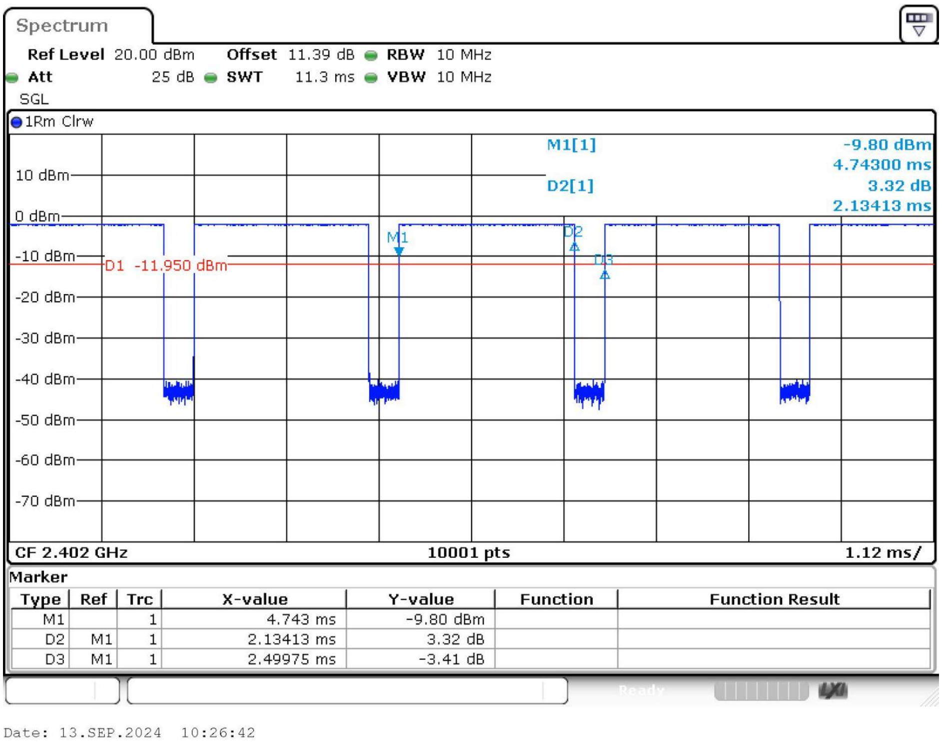
BLE 2M_Channel 39

Left:

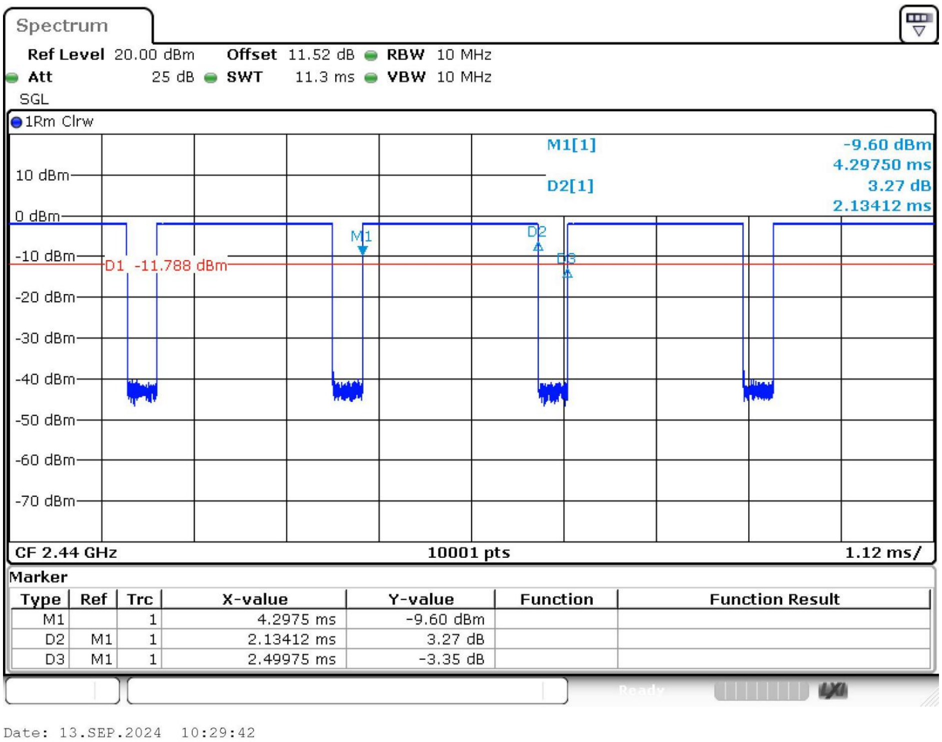
Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.134	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	1.081	2.499	43.27	0.4327	3.6381	0.93
	39	1.081	2.499	43.27	0.4327	3.6381	0.93

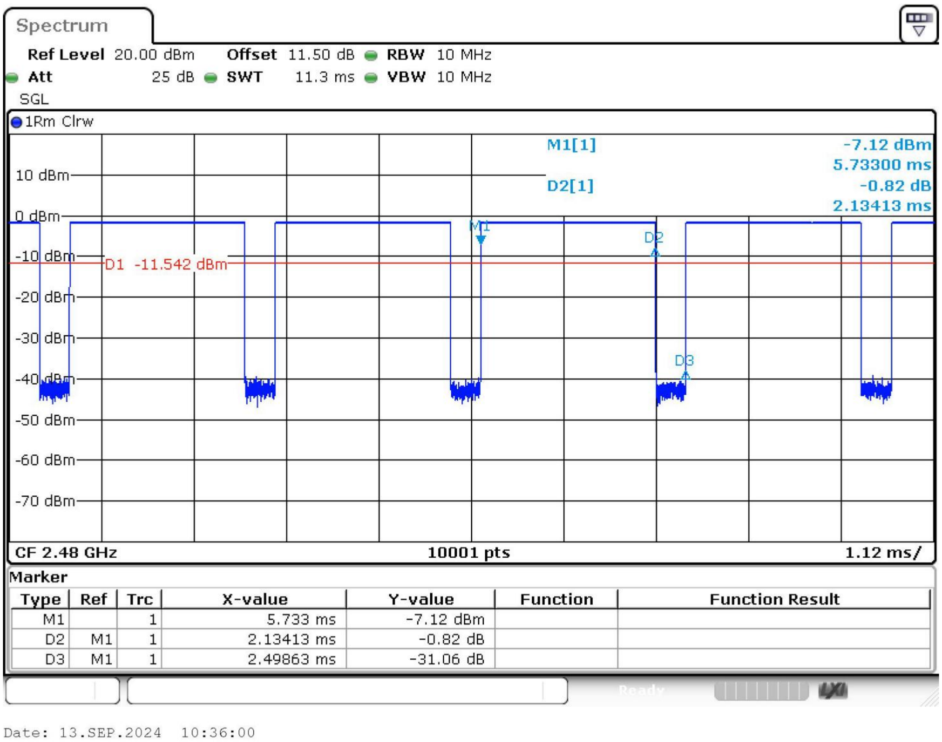
Test Graphs



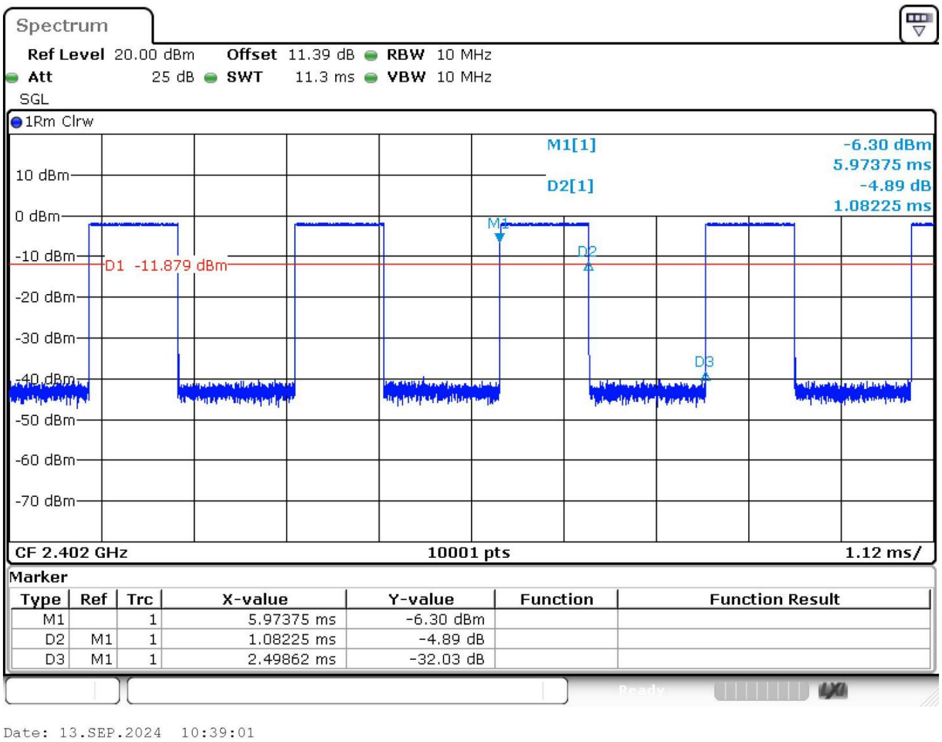
BLE 1M_Channel 0



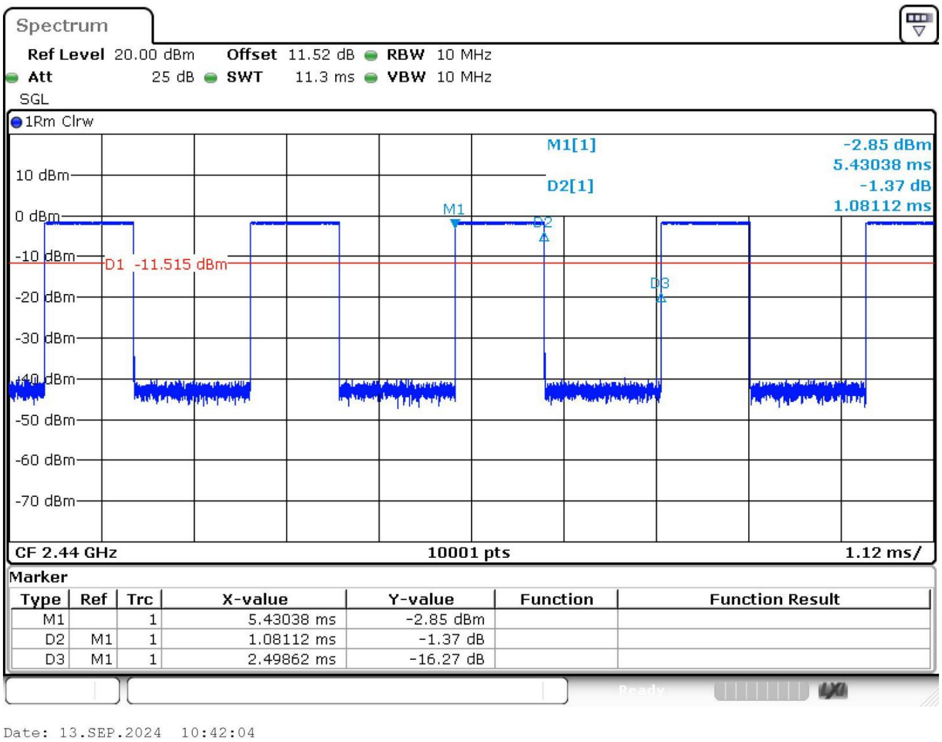
BLE 1M_Channel 19



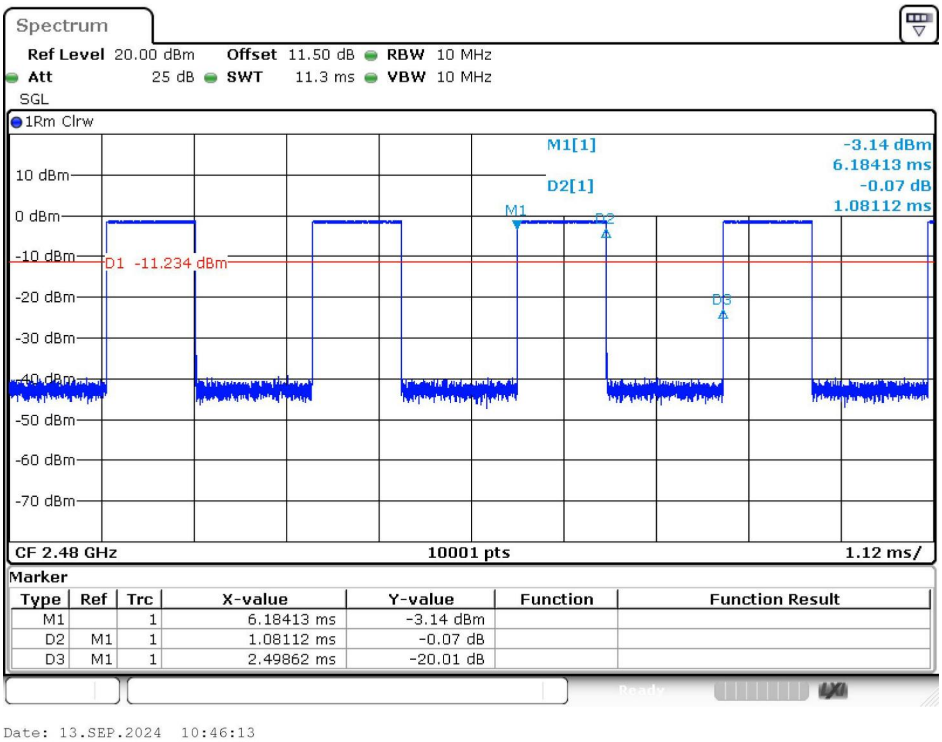
BLE 1M_Channel 39



BLE 2M_Channel 0



BLE 2M_Channel 19



BLE 2M_Channel 39

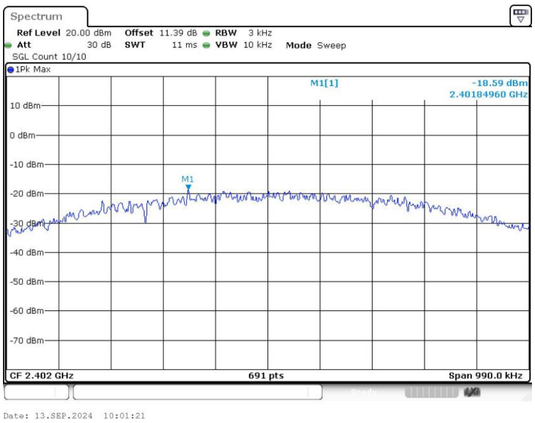
6) Power Spectral Density

Right:

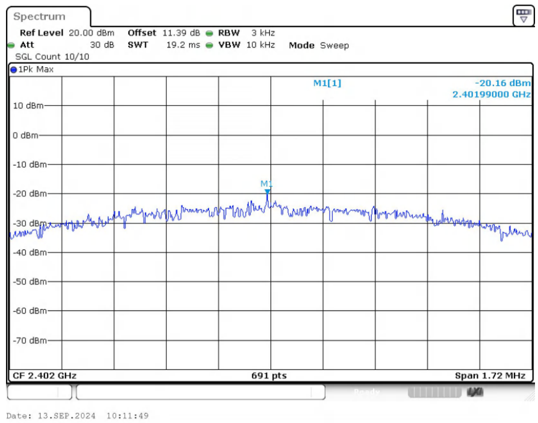
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-18.591	≤8	PASS
BLE 1M	19	-18.621	≤8	PASS
BLE 1M	39	-18.246	≤8	PASS
BLE 2M	0	-20.160	≤8	PASS
BLE 2M	19	-20.401	≤8	PASS
BLE 2M	39	-22.540	≤8	PASS

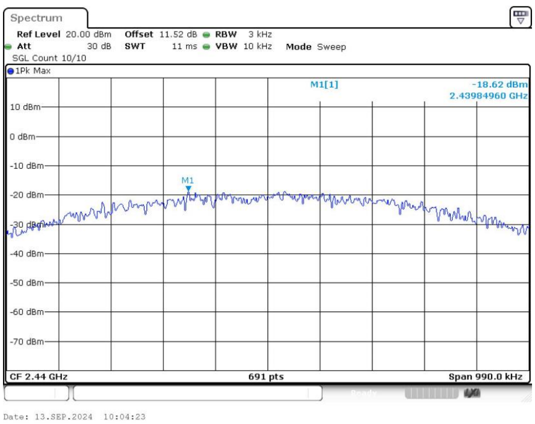
Test Graphs



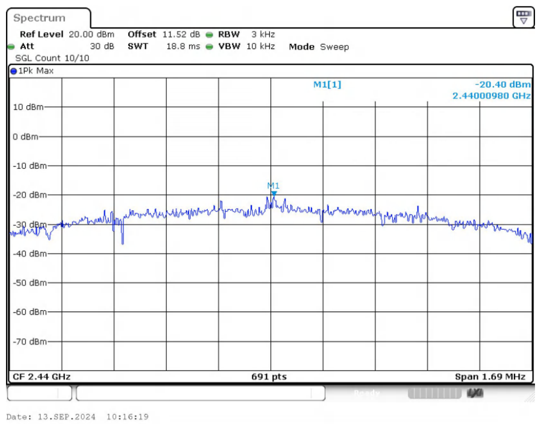
BLE 1M_Channel 0



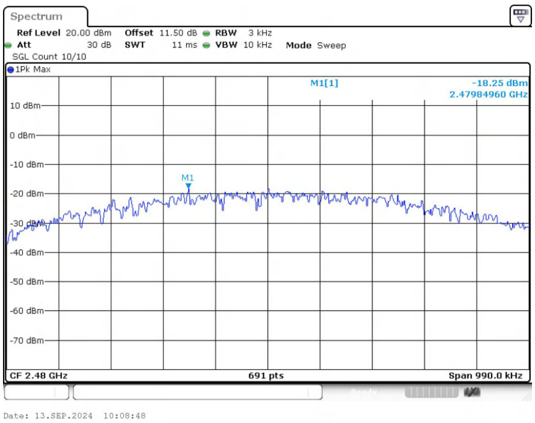
BLE 2M_Channel 0



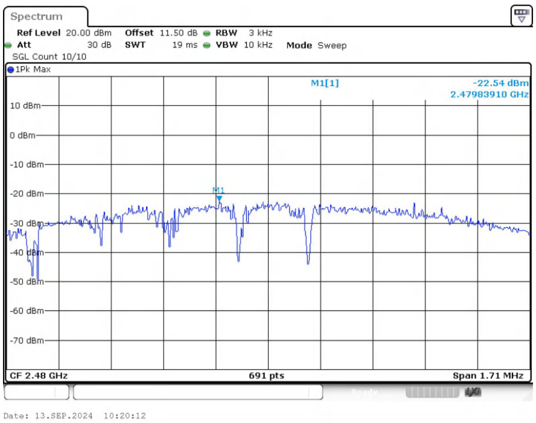
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



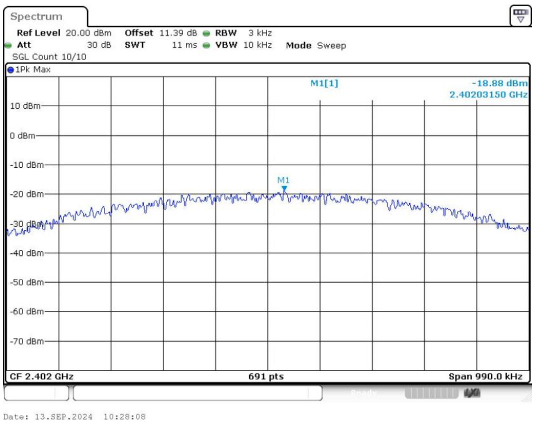
BLE 2M_Channel 39

Left:

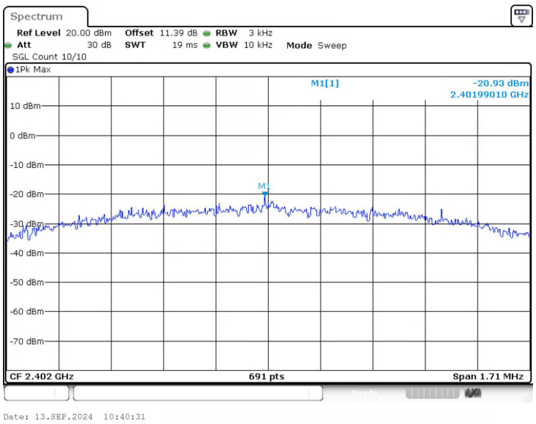
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-18.876	≤8	PASS
BLE 1M	19	-18.087	≤8	PASS
BLE 1M	39	-18.462	≤8	PASS
BLE 2M	0	-20.925	≤8	PASS
BLE 2M	19	-20.484	≤8	PASS
BLE 2M	39	-20.927	≤8	PASS

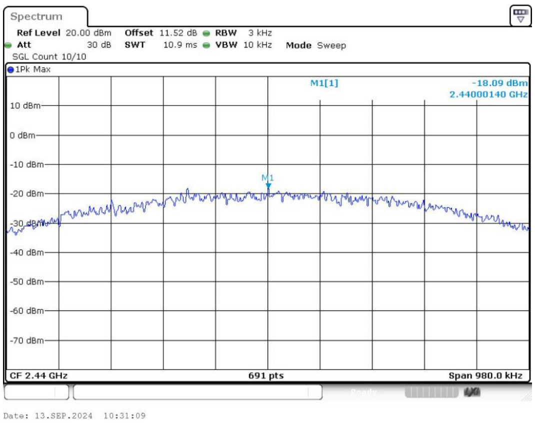
Test Graphs



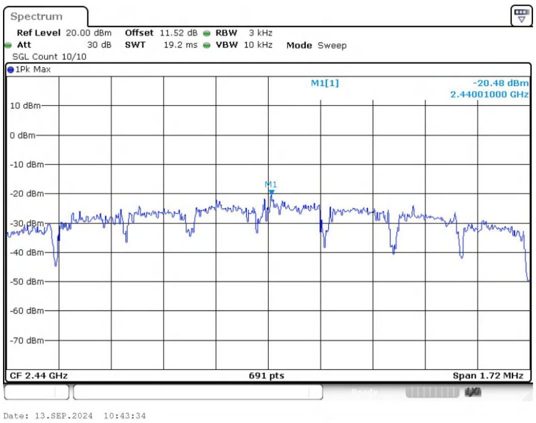
BLE 1M_Channel 0



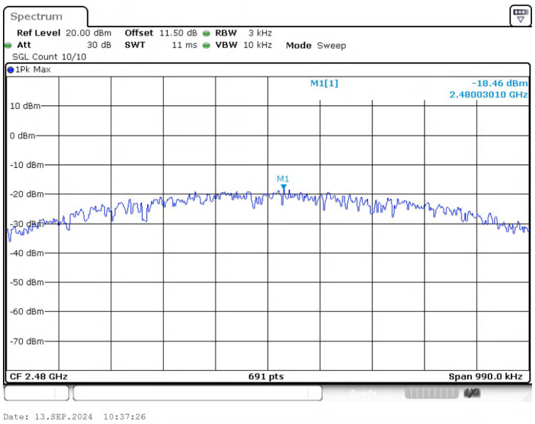
BLE 2M_Channel 0



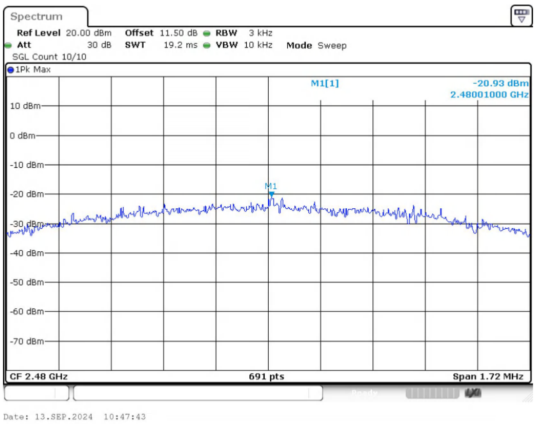
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



BLE 2M_Channel 39