Appendix A

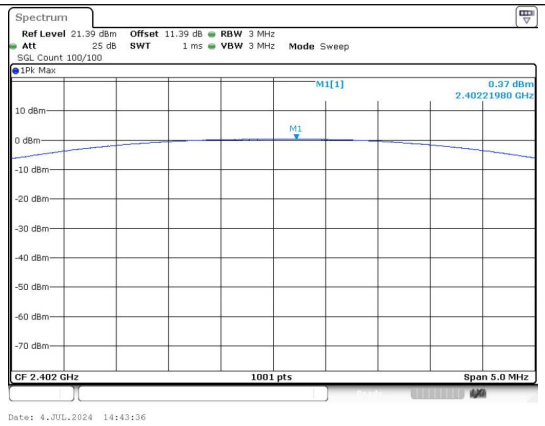
Report No.:	CISRR240611083
FCC ID:	2BG5H-S7
Product Name:	MP3 Player
Model No.:	S7
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

Conducted Output Power

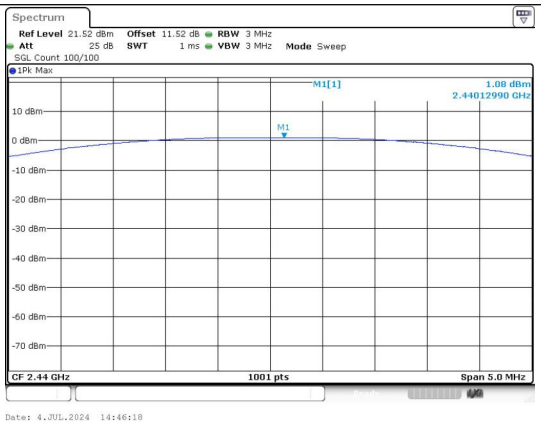
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	0.366	1.09	≤30	PASS
	19	1.080	1.28	≤30	PASS
	39	2.056	1.61	≤30	PASS
BLE 2M	0	0.398	1.1	≤30	PASS
	19	1.133	1.3	≤30	PASS
	39	2.119	1.63	≤30	PASS

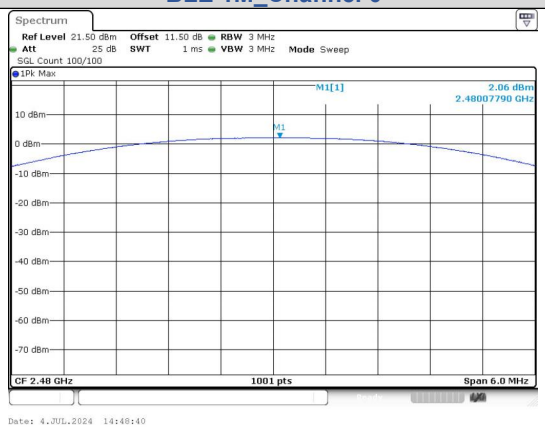
Test Graphs



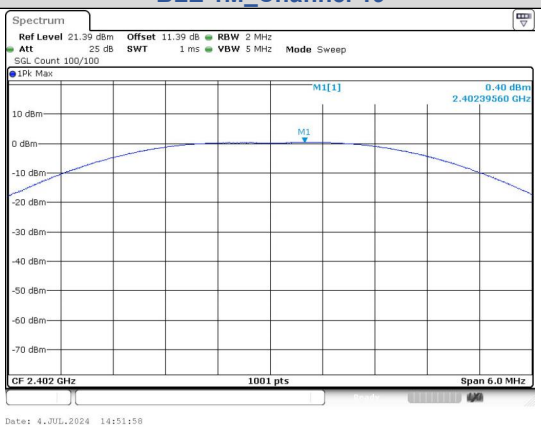
Peak Output Power
BLE 1M_Channel 0



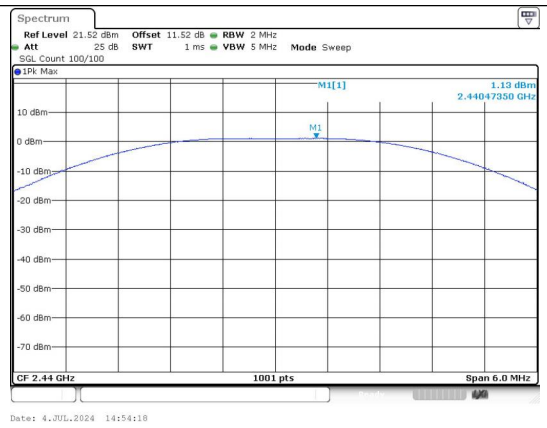
Peak Output Power
BLE 1M_Channel 19



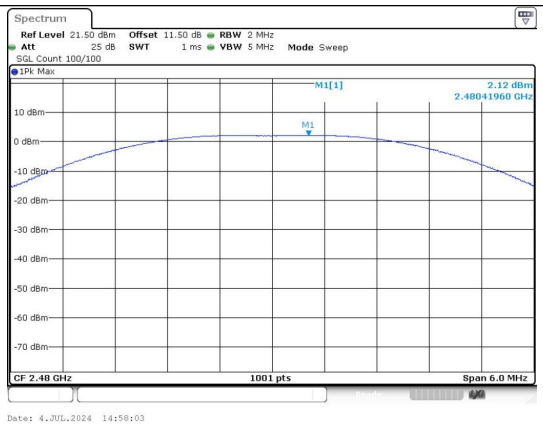
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



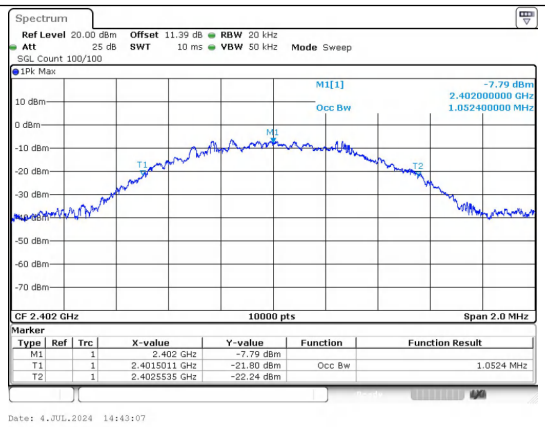
Peak Output Power
BLE 2M_Channel 39

99% Bandwidth

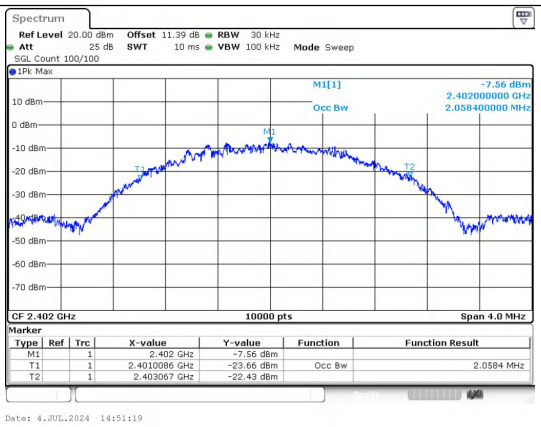
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0524
BLE 1M	19	2440	1.0598
BLE 1M	39	2480	1.0758
BLE 2M	0	2402	2.0584
BLE 2M	19	2440	2.0508
BLE 2M	39	2480	2.0488

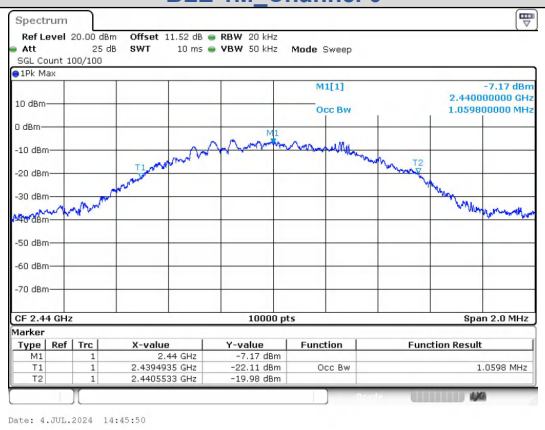
Test Graphs



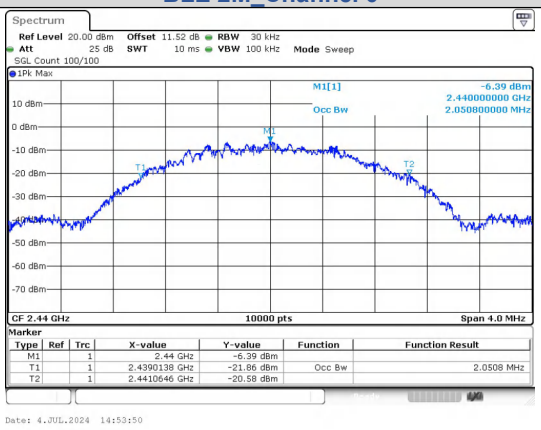
BLE 1M_Channel 0



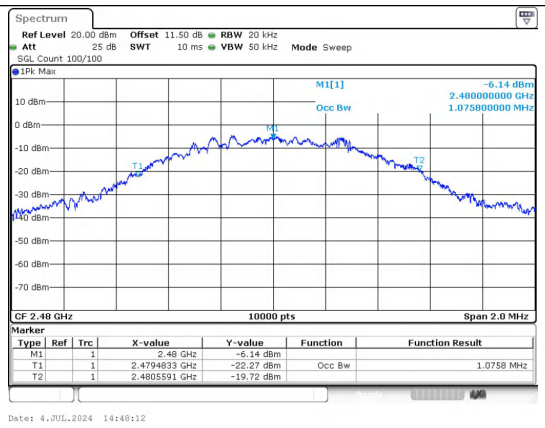
BLE 2M_Channel 0



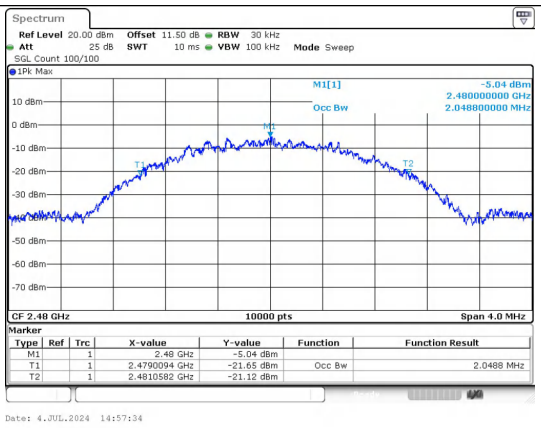
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



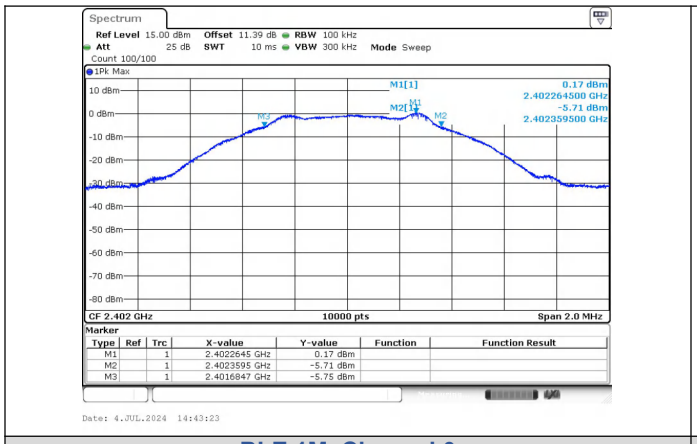
BLE 2M_Channel 39

6dB Bandwidth

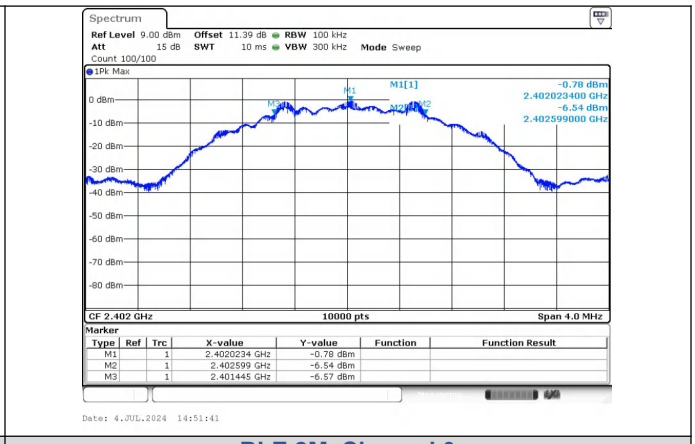
Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6800	≥0.5	PASS
	19	2440	0.6800		PASS
	39	2480	0.6900		PASS
BLE 2M	0	2402	1.150		PASS
	19	2440	1.160		PASS
	39	2480	1.160		PASS

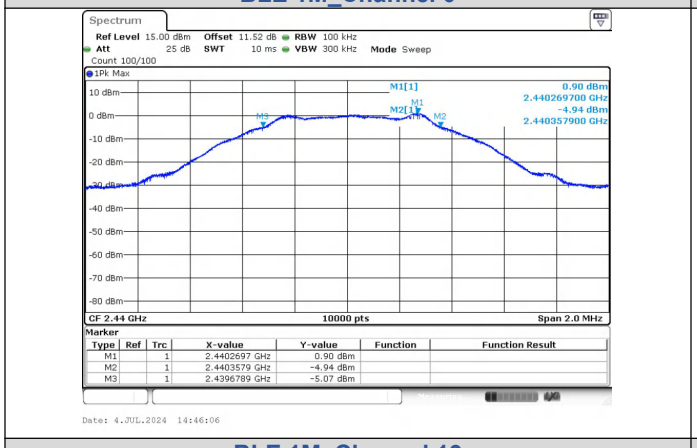
Test Graphs



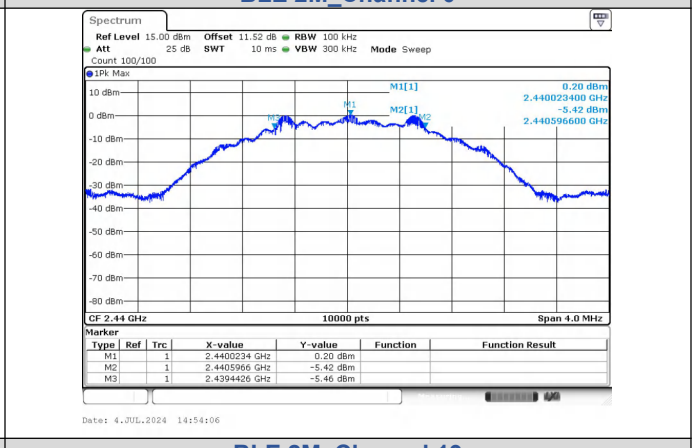
BLE 1M_Channel 0



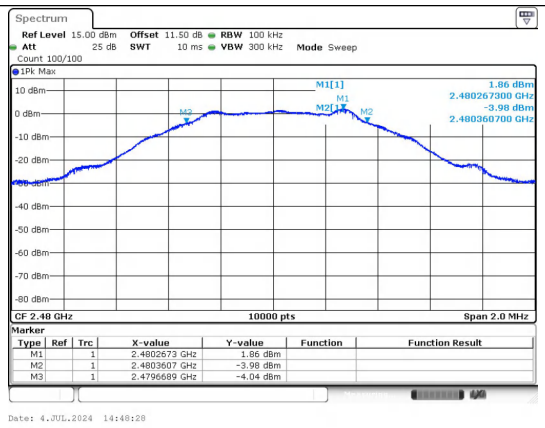
BLE 2M_Channel 0



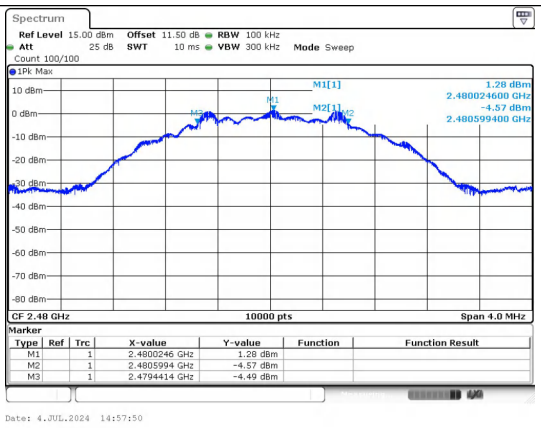
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



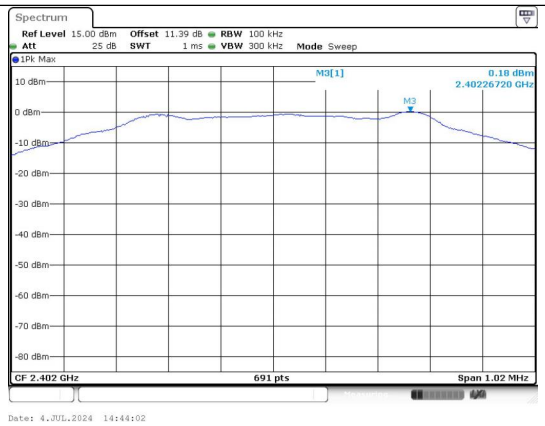
BLE 2M_Channel 39

Conducted Out Of Band Emission

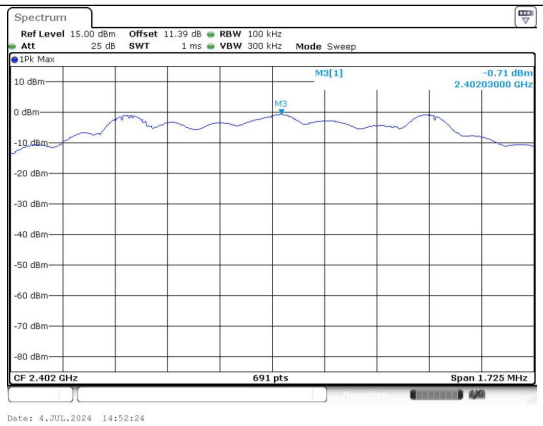
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.63	-48.335	-19.82	-28.515	PASS
		2400.00	-49.764	-19.82	-29.944	PASS
		9608.10	-47.927	-19.82	-28.107	PASS
	19	9760.39	-46.472	-19.12	-27.352	PASS
	39	2483.50	-50.400	-18.13	-32.270	PASS
		4959.49	-48.080	-18.13	-29.950	PASS
BLE 2M	0	2400.00	-34.024	-20.71	-13.314	PASS
		9608.08	-48.671	-20.71	-27.961	PASS
	19	9760.39	-46.789	-19.86	-26.929	PASS
	39	2483.50	-50.720	-18.76	-31.960	PASS
		4960.33	-46.805	-18.76	-28.045	PASS

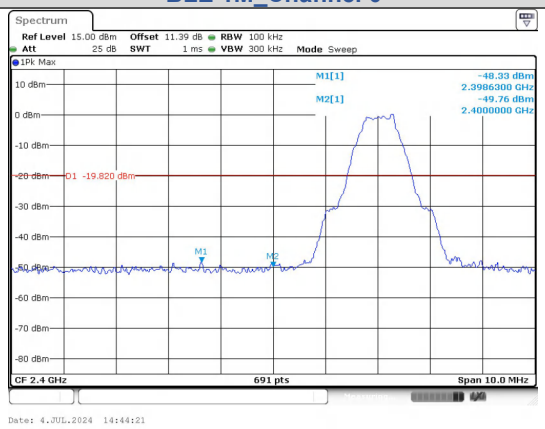
Test Graphs



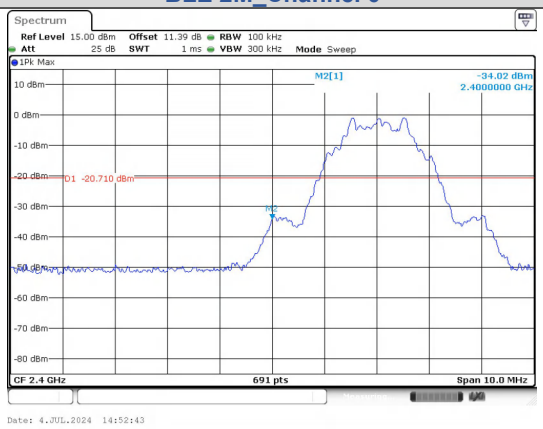
In-Band Reference Level
BLE 1M_Channel 0



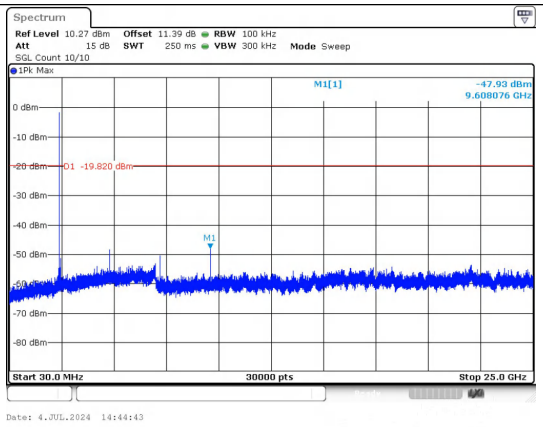
In-Band Reference Level
BLE 2M_Channel 0



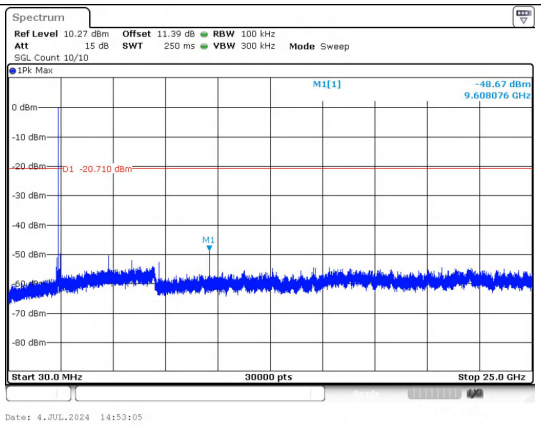
Out Of Band Emission
BLE 1M_Channel 0



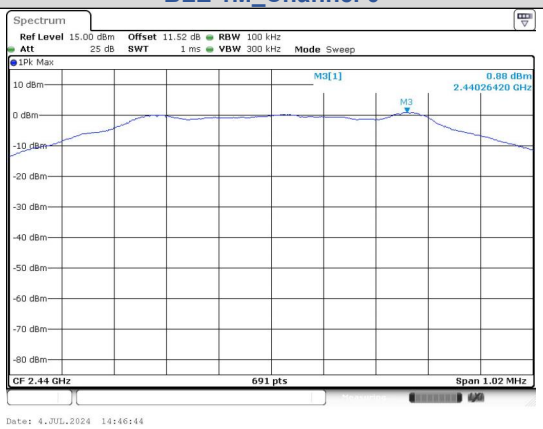
Out Of Band Emission
BLE 2M_Channel 0



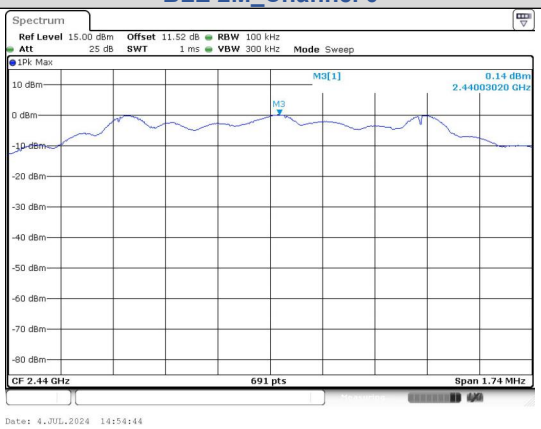
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



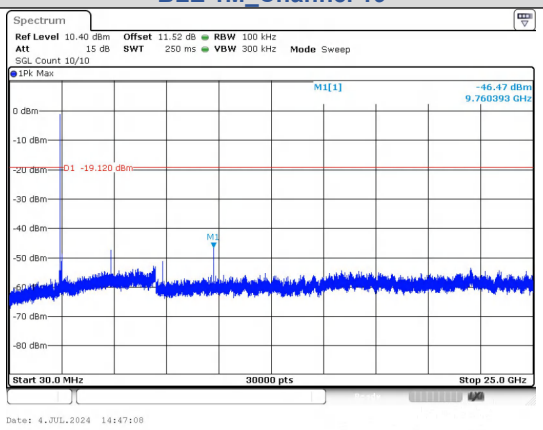
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



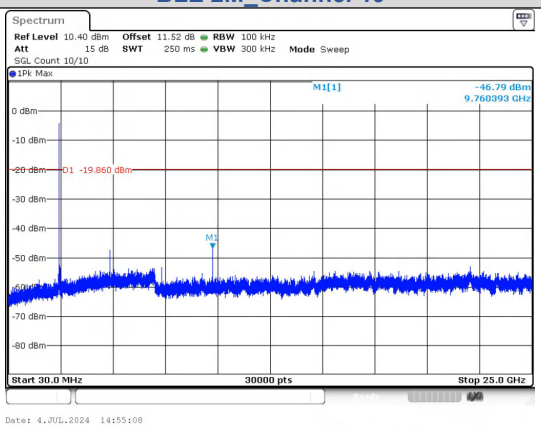
In-Band Reference Level
BLE 1M_Channel 19



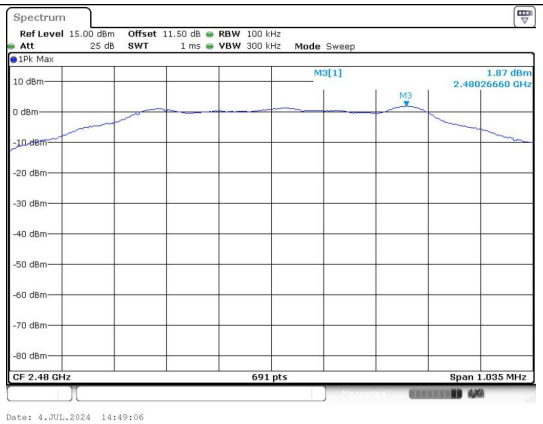
In-Band Reference Level
BLE 2M_Channel 19



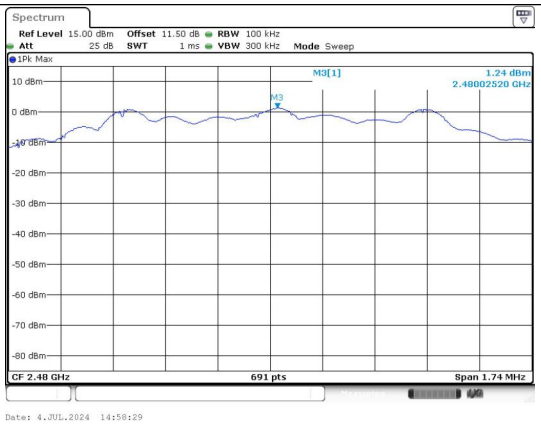
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



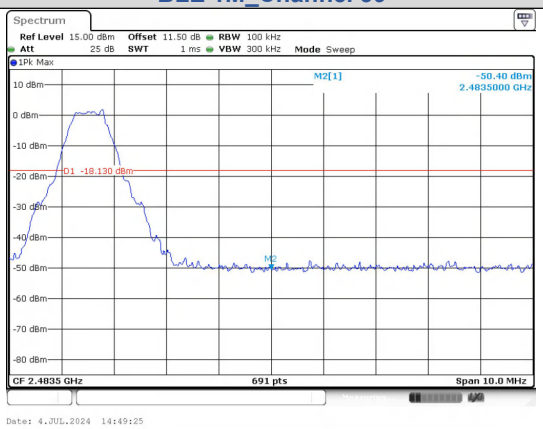
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



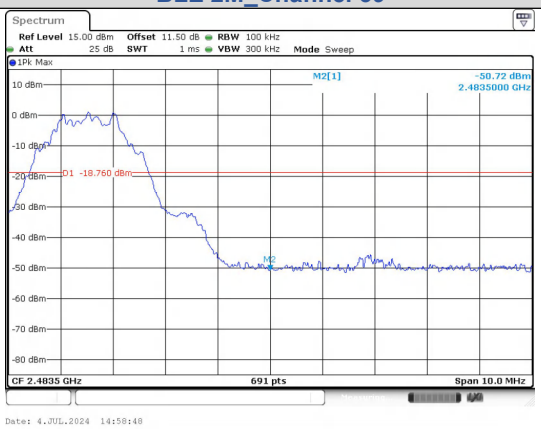
In-Band Reference Level
BLE 1M_Channel 39



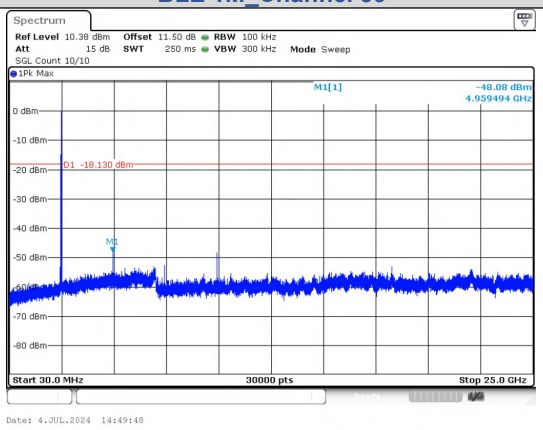
In-Band Reference Level
BLE 2M_Channel 39



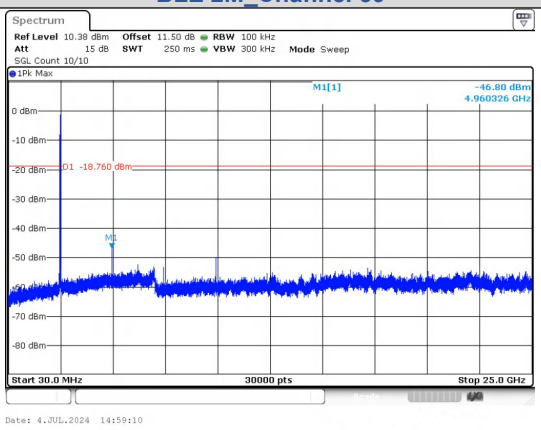
Out Of Band Emission
BLE 1M_Channel 39



Out Of Band Emission
BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39



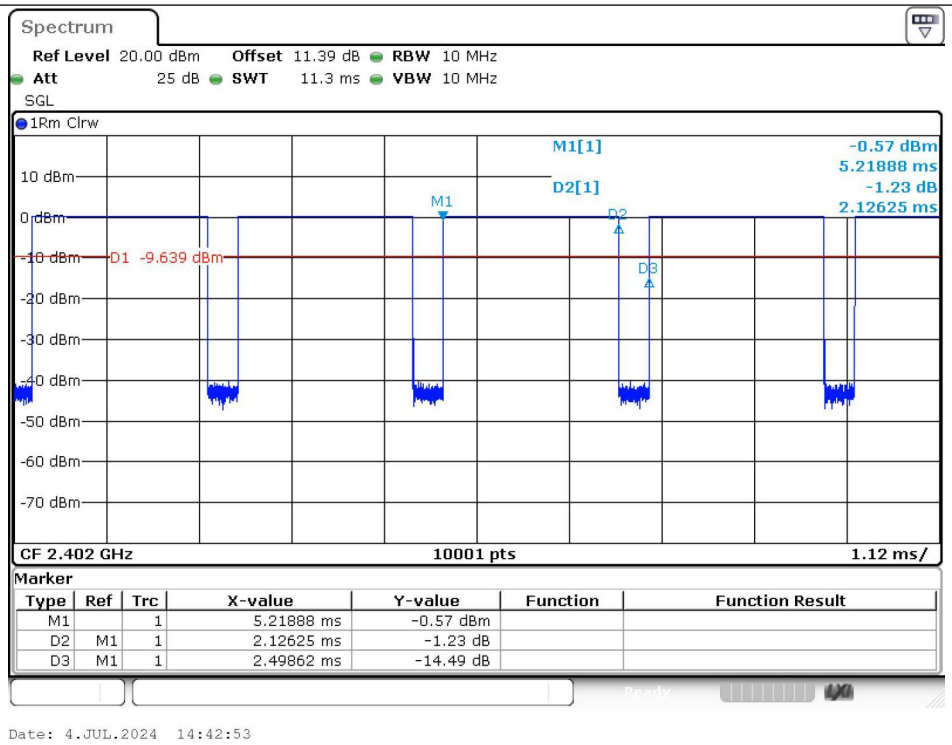
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39

Duty Cycle

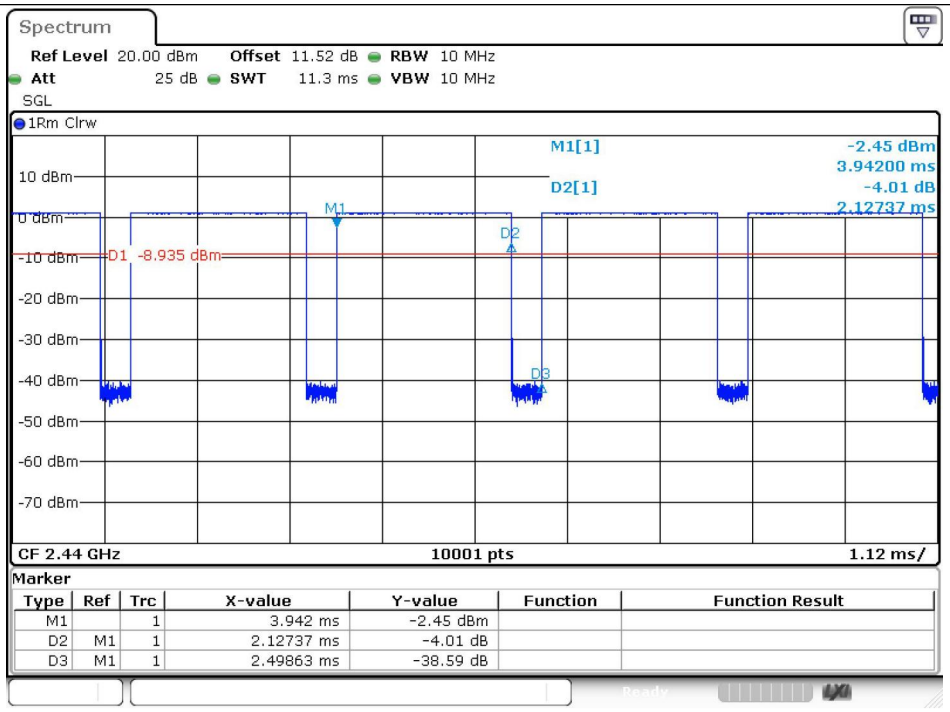
Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.126	2.499	85.10	0.8510	0.7007	0.47
	19	2.127	2.499	85.14	0.8514	0.6987	0.47
	39	2.126	2.499	85.10	0.8510	0.7007	0.47
BLE 2M	0	1.075	2.499	43.04	0.4304	3.6613	0.93
	19	1.074	2.499	43.00	0.4300	3.6653	0.93
	39	1.075	2.499	43.04	0.4304	3.6613	0.93

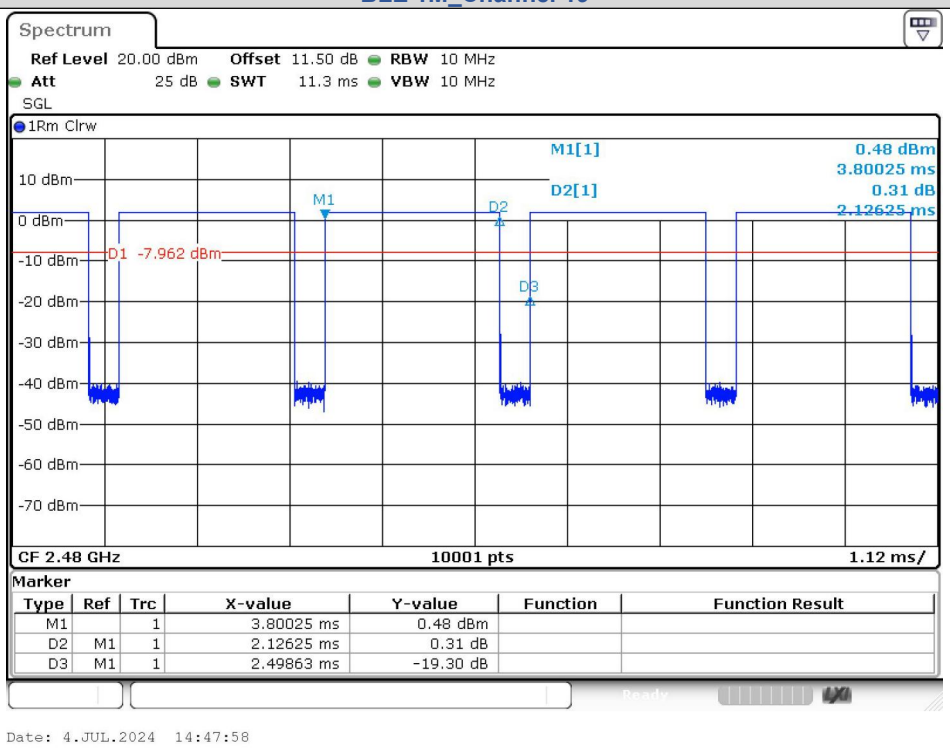
Test Graphs



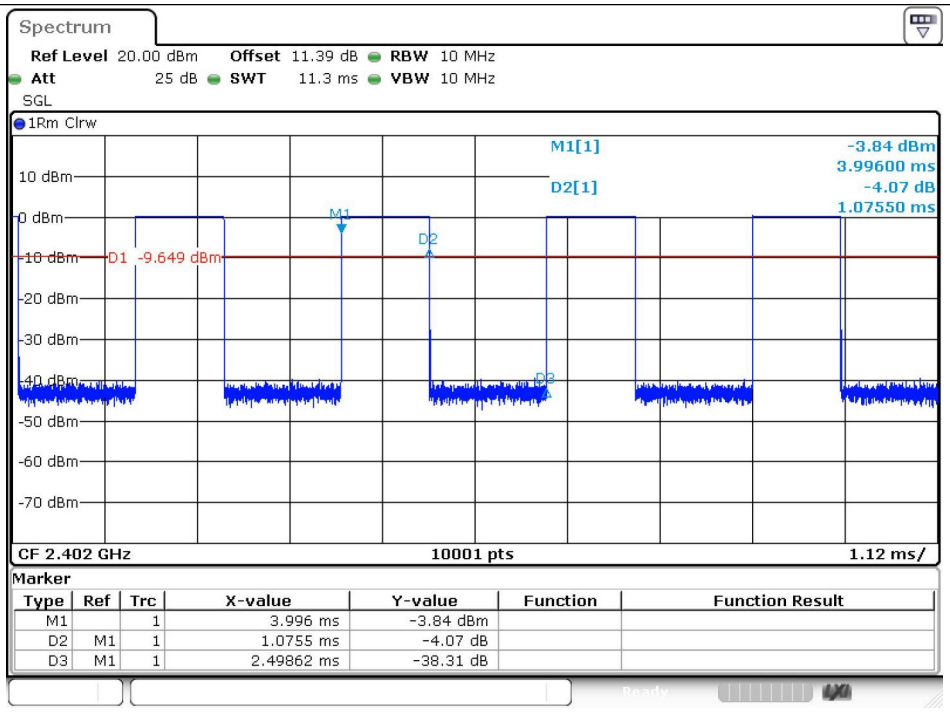
BLE 1M_Channel 0



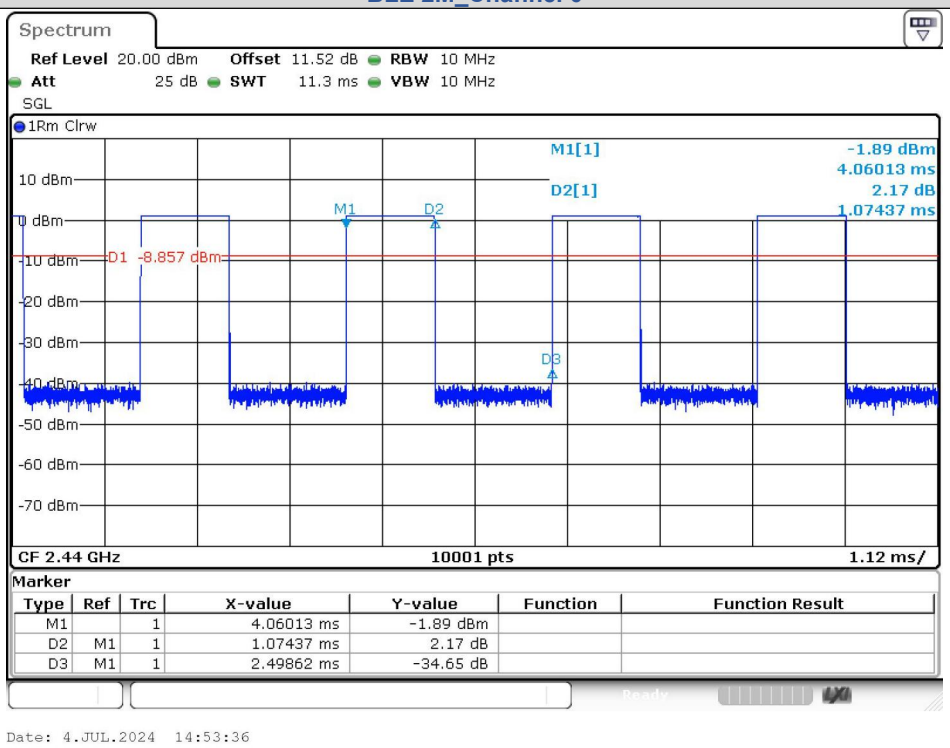
BLE 1M_Channel 19



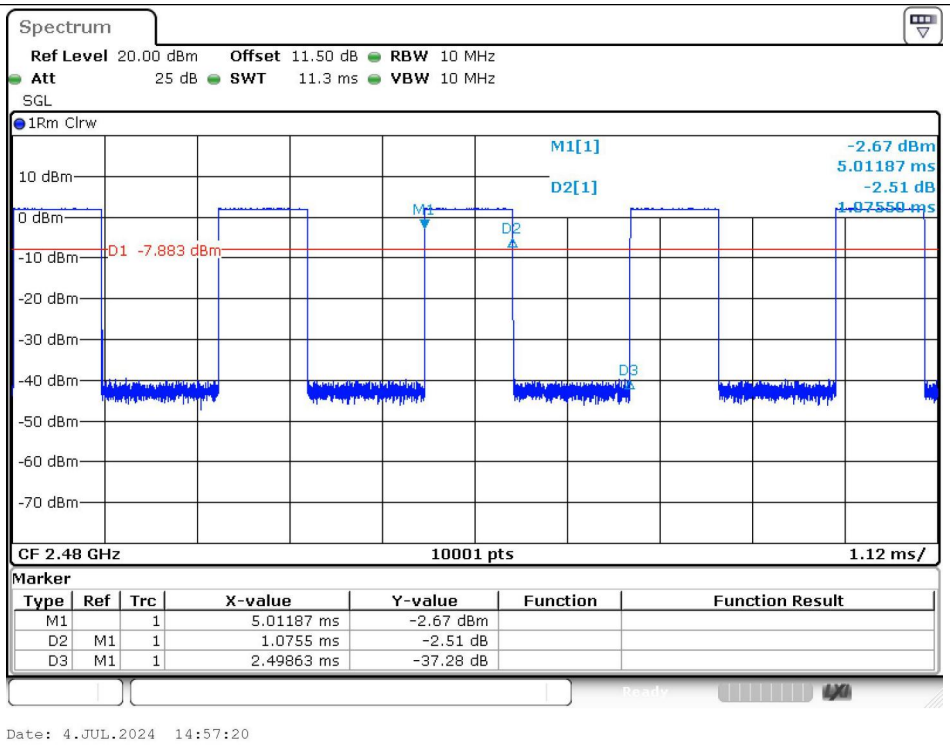
BLE 1M_Channel 39



BLE 2M_Channel 0



BLE 2M_Channel 19



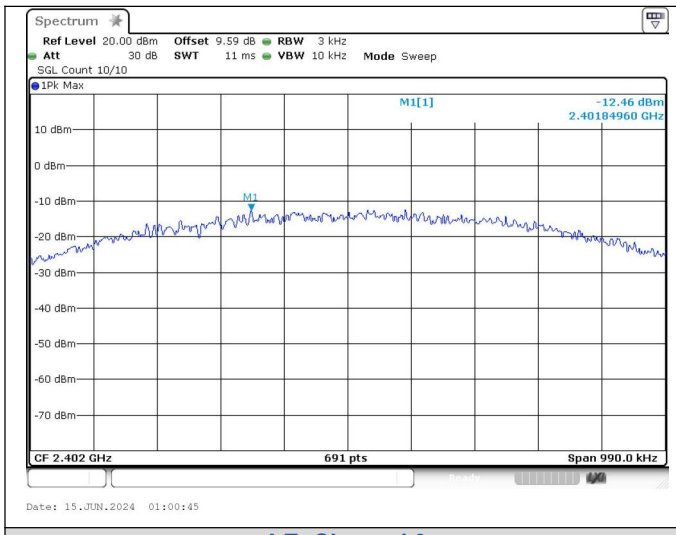
BLE 2M_Channel 39

Power Spectral Density

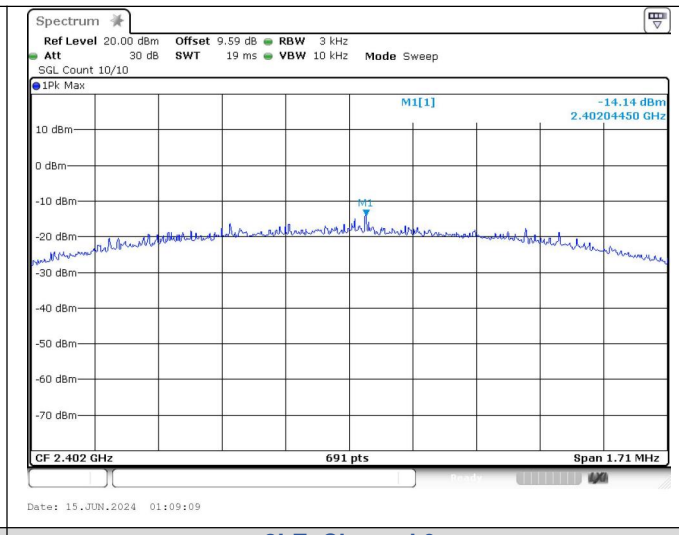
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
LE	0	-12.460	8	PASS
LE	19	-12.171	8	PASS
LE	39	-13.828	8	PASS
2LE	0	-14.137	8	PASS
2LE	19	-13.684	8	PASS
2LE	39	-15.364	8	PASS

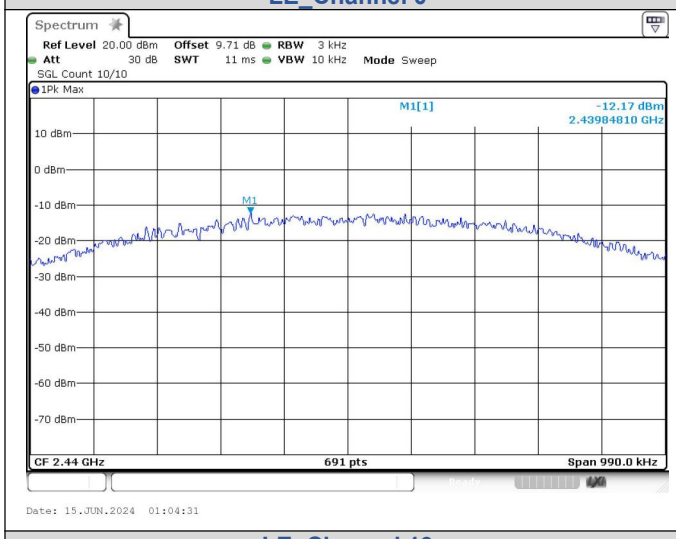
Test Graphs



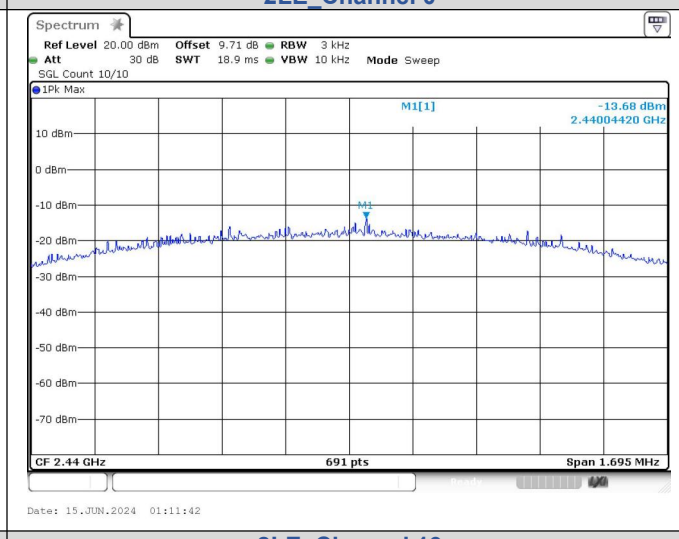
LE_Channel 0



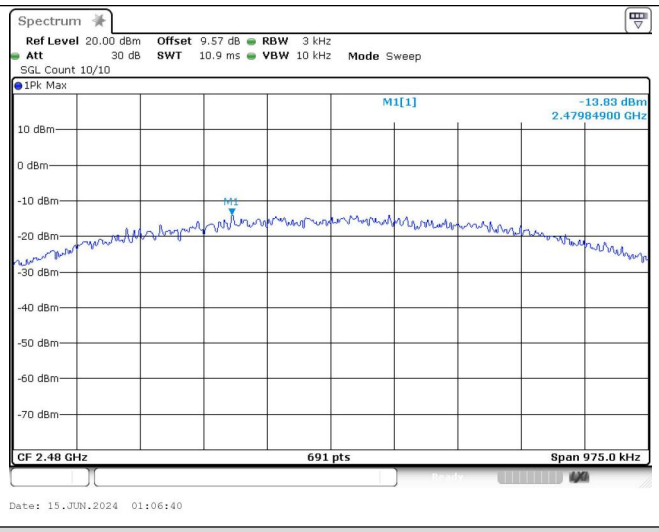
2LE_Channel 0



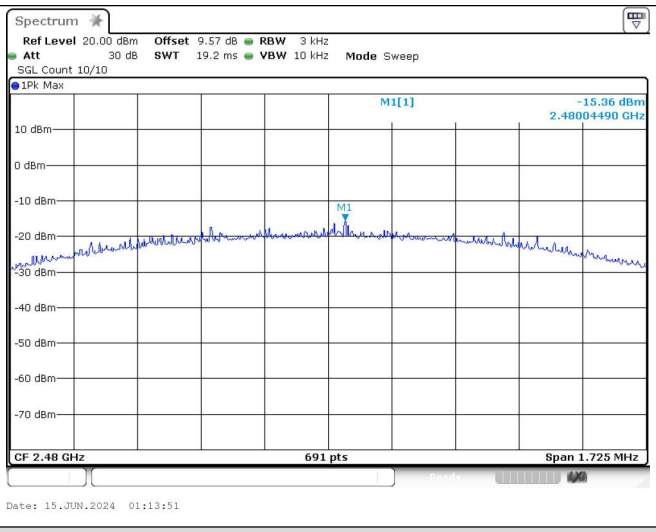
LE_Channel 19



2LE_Channel 19



LE_Channel 39



2LE_Channel 39