

Appendix A

Report No.:	CISRR240618134
FCC ID:	2BG6I-MO-P20
Product Name:	MoTag
Model No.:	Mo-P20
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

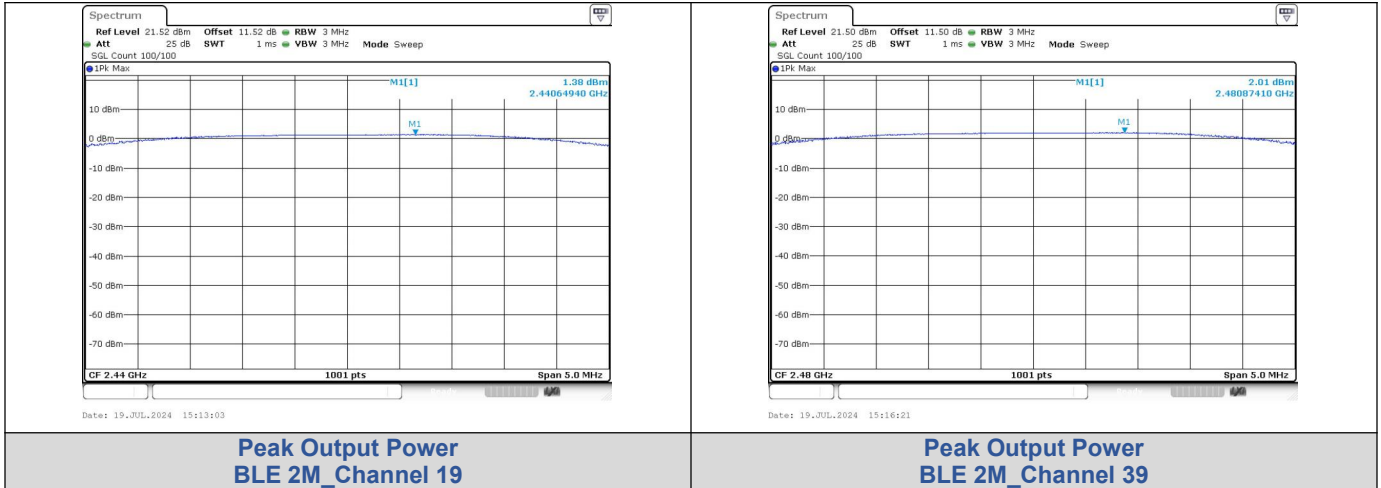
Conducted Output Power

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	0.96	1.25	≤30	PASS
	19	2.19	1.66	≤30	PASS
	39	2.84	1.92	≤30	PASS
BLE 2M	0	1.05	1.27	≤30	PASS
	19	1.38	1.37	≤30	PASS
	39	2.01	1.59	≤30	PASS

Test Graphs



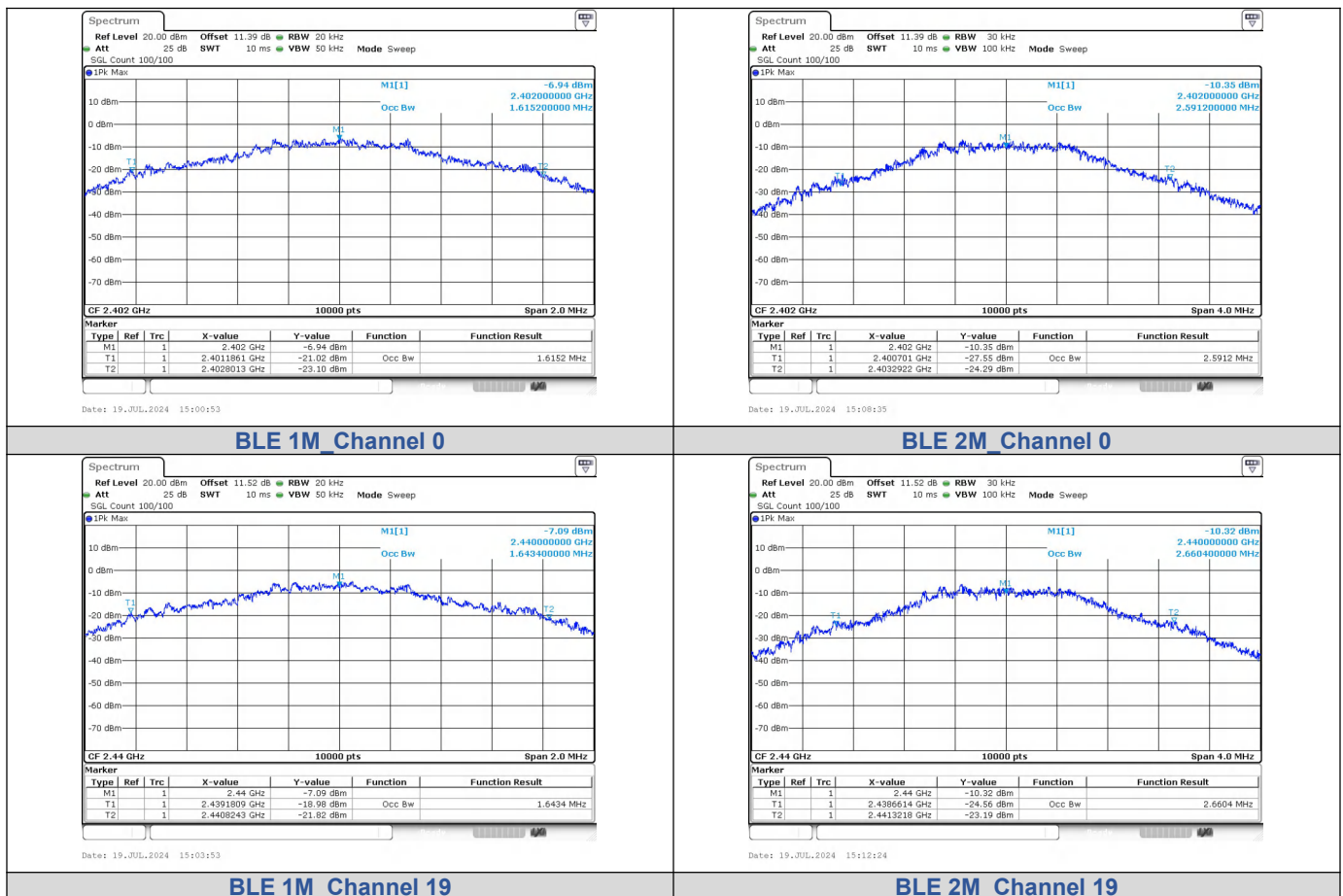


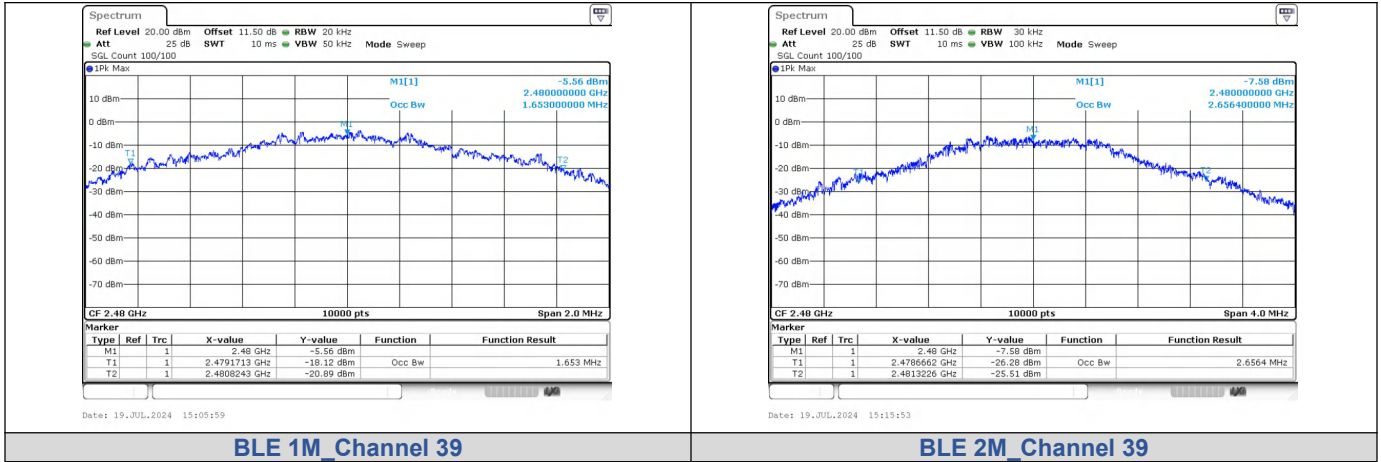
99% Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.6152
BLE 1M	19	2440	1.6434
BLE 1M	39	2480	1.6530
BLE 2M	0	2402	2.5912
BLE 2M	19	2440	2.6604
BLE 2M	39	2480	2.6564

Test Graphs



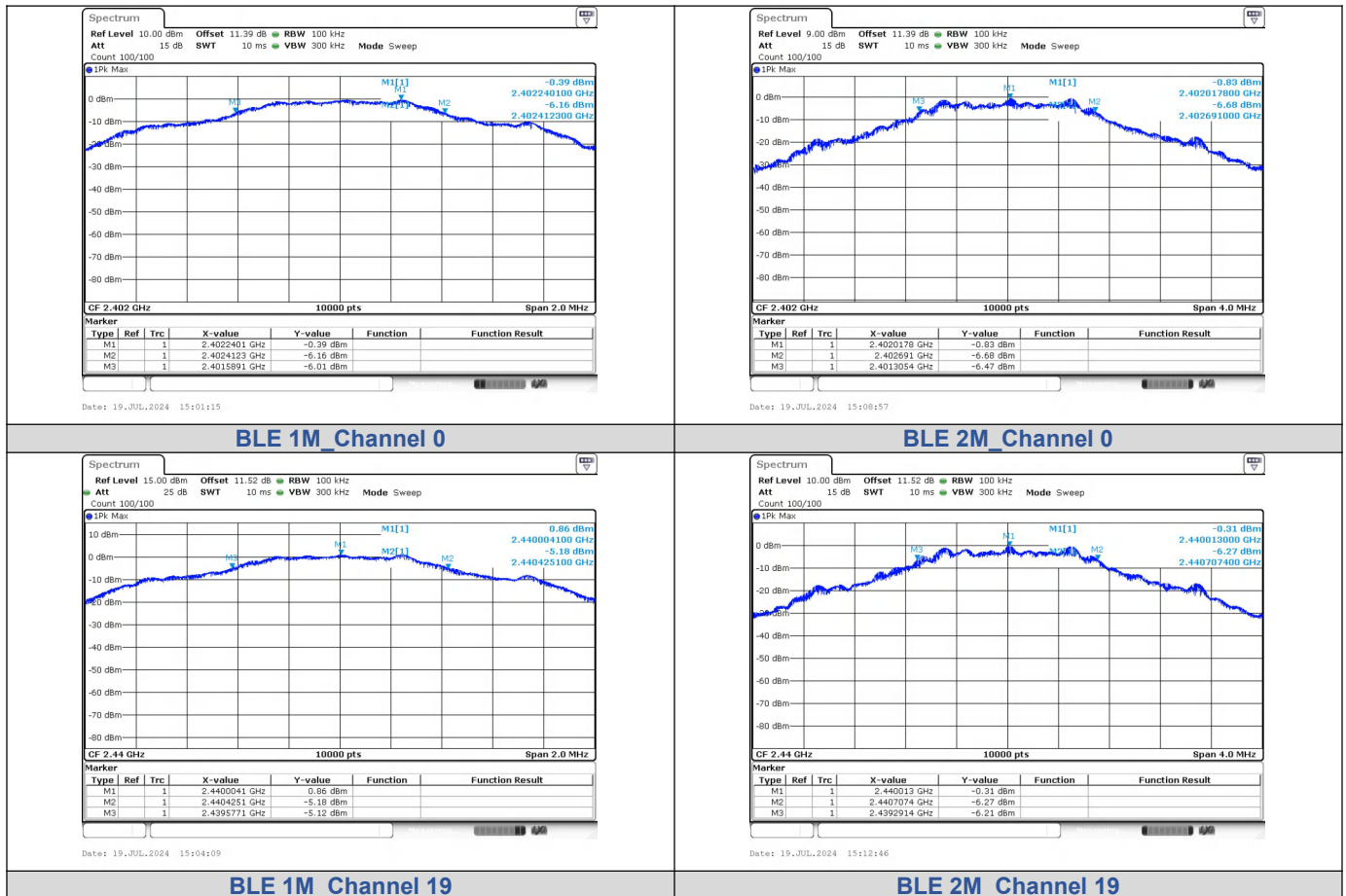


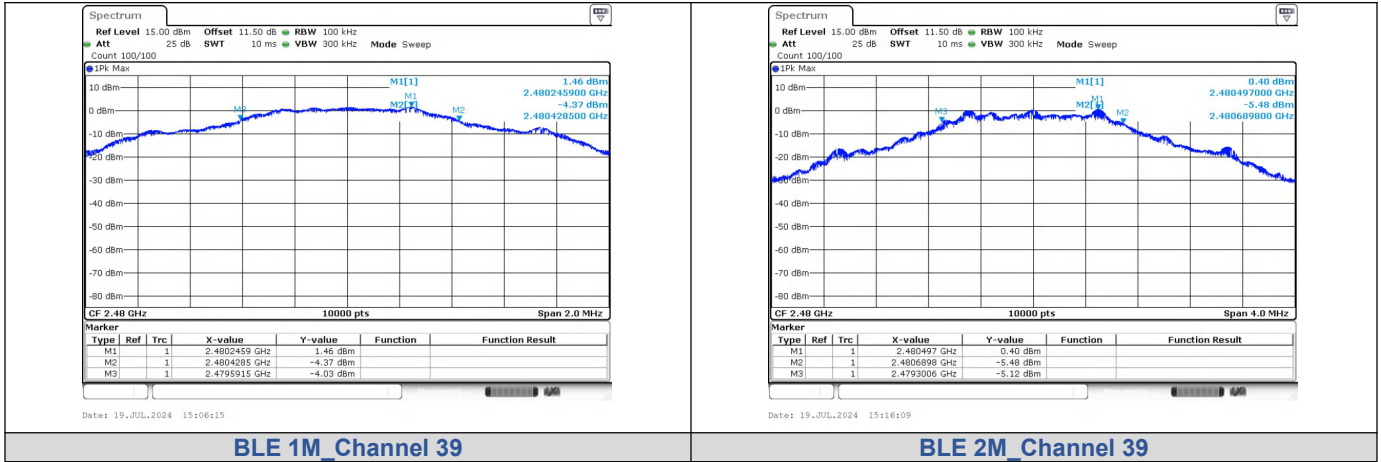
6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.8200	≥0.5	PASS
	19	2440	0.8500		PASS
	39	2480	0.8400		PASS
BLE 2M	0	2402	1.380		PASS
	19	2440	1.420		PASS
	39	2480	1.390		PASS

Test Graphs



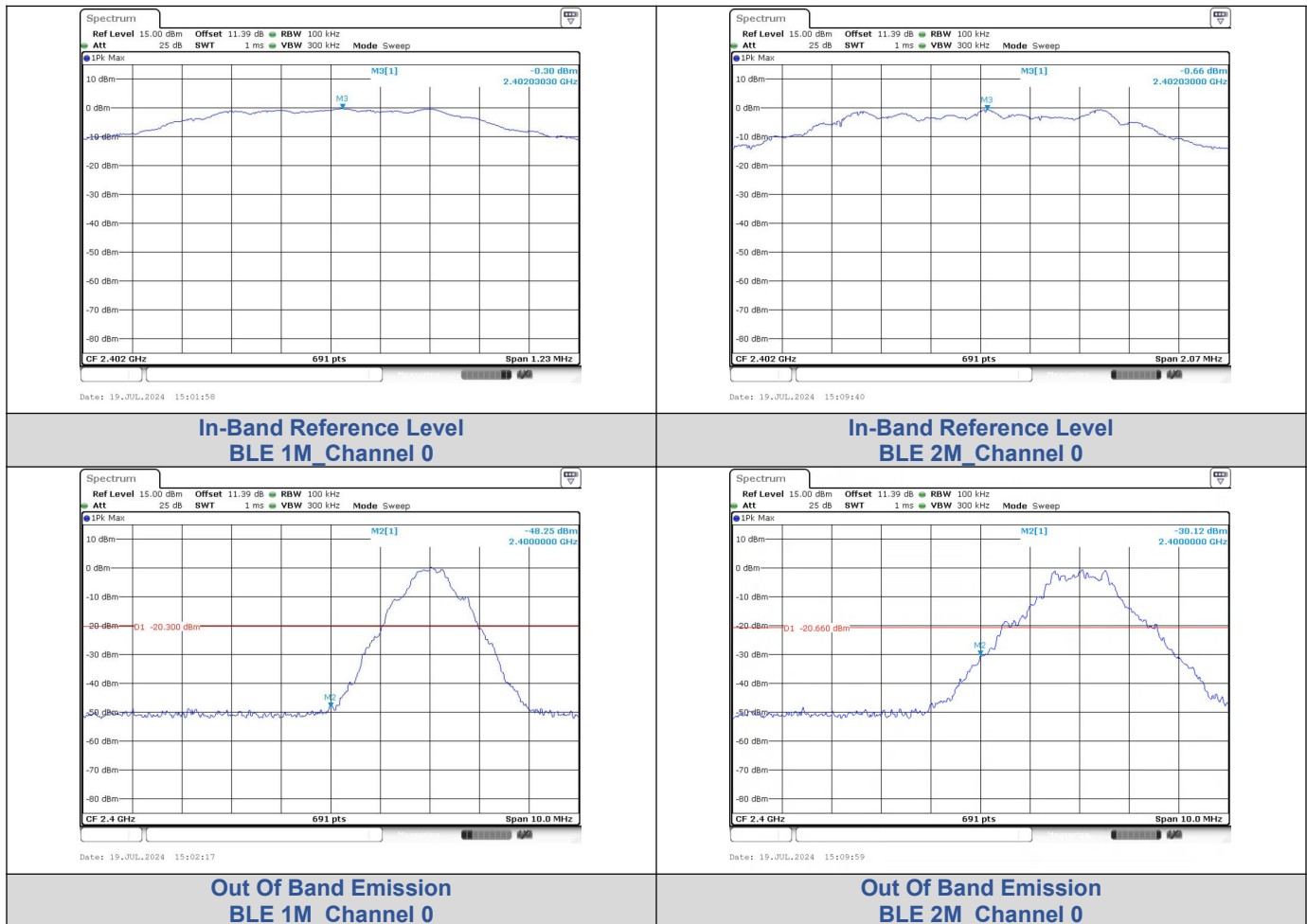


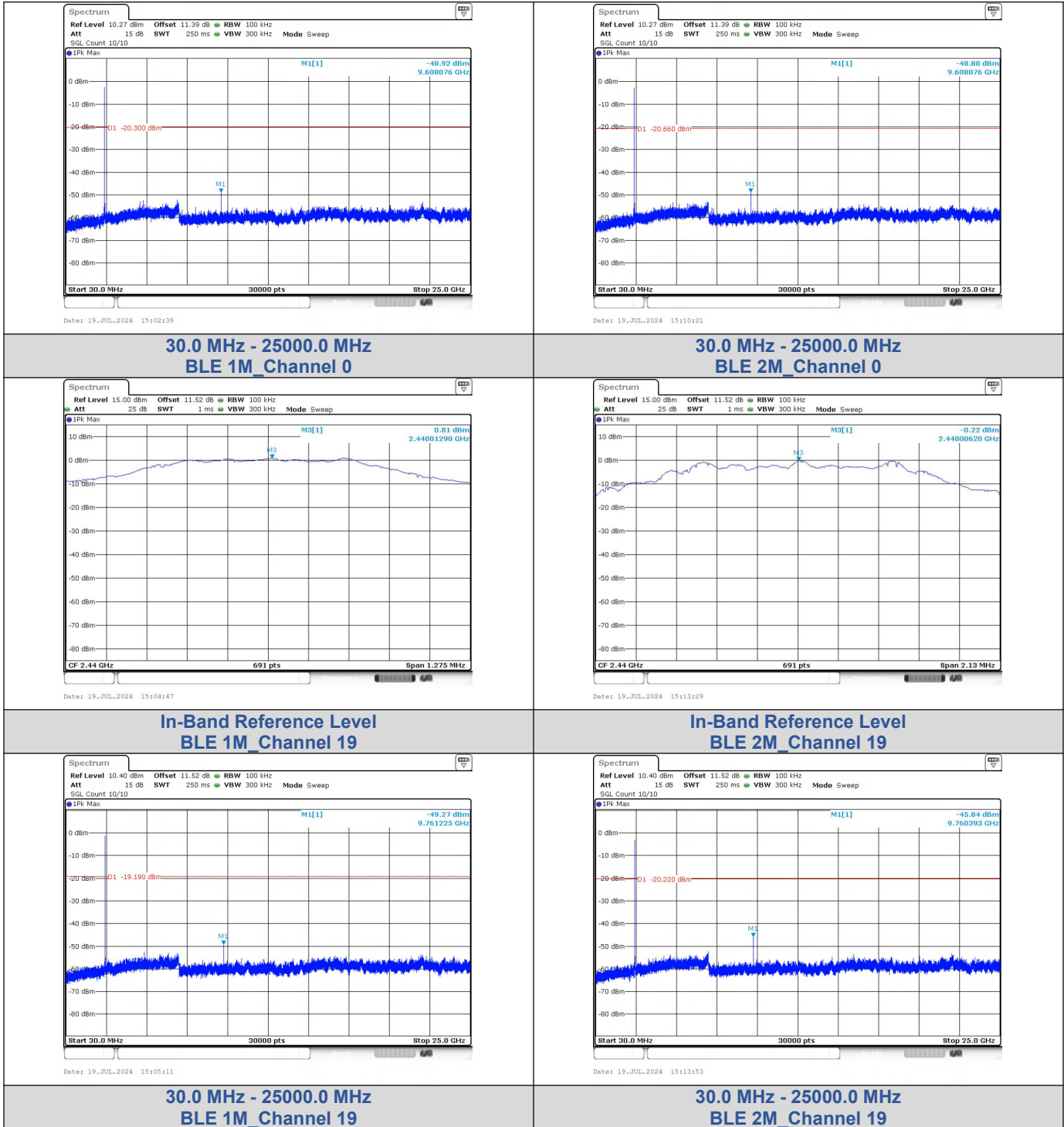
Conducted Out Of Band Emission

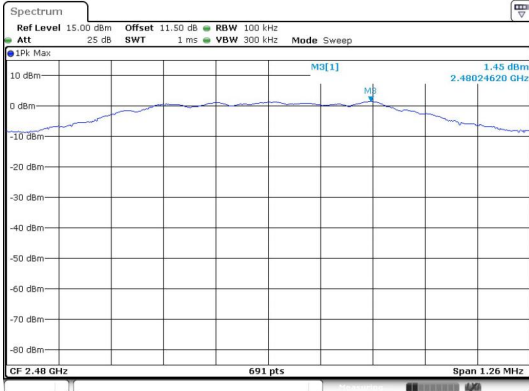
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-48.245	-20.3	-27.945	PASS
		9608.08	-48.916	-20.3	-28.616	PASS
	19	9761.23	-49.271	-19.19	-30.081	PASS
	39	2483.50	-48.931	-18.55	-30.381	PASS
		9920.20	-46.587	-18.55	-28.037	PASS
BLE 2M	0	2400.00	-30.121	-20.66	-9.461	PASS
		9608.08	-48.884	-20.66	-28.224	PASS
	19	9760.39	-45.845	-20.22	-25.625	PASS
	39	2483.50	-49.226	-19.65	-29.576	PASS
		9921.03	-47.234	-19.65	-27.584	PASS

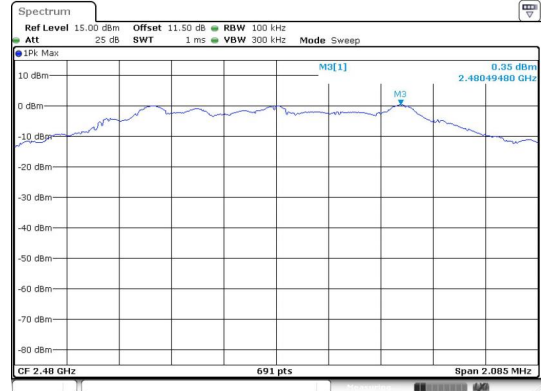
Test Graphs



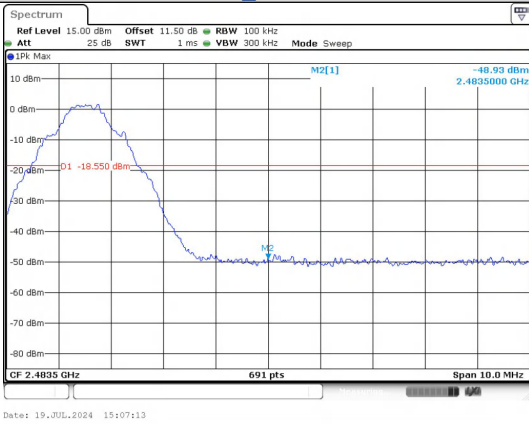




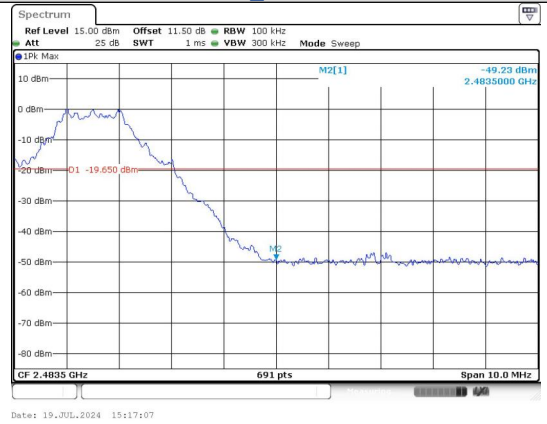
**In-Band Reference Level
BLE 1M_Channel 39**



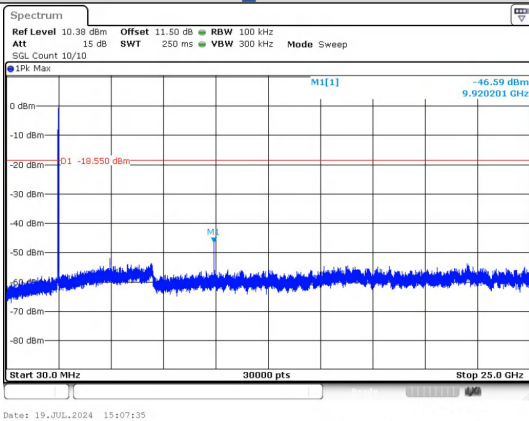
**In-Band Reference Level
BLE 2M_Channel 39**



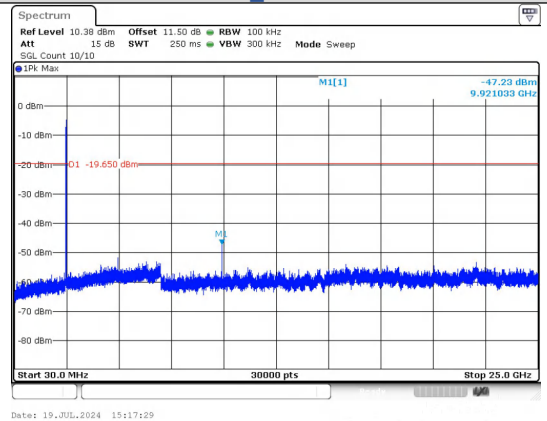
**Out Of Band Emission
BLE 1M_Channel 39**



**Out Of Band Emission
BLE 2M_Channel 39**



**30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39**



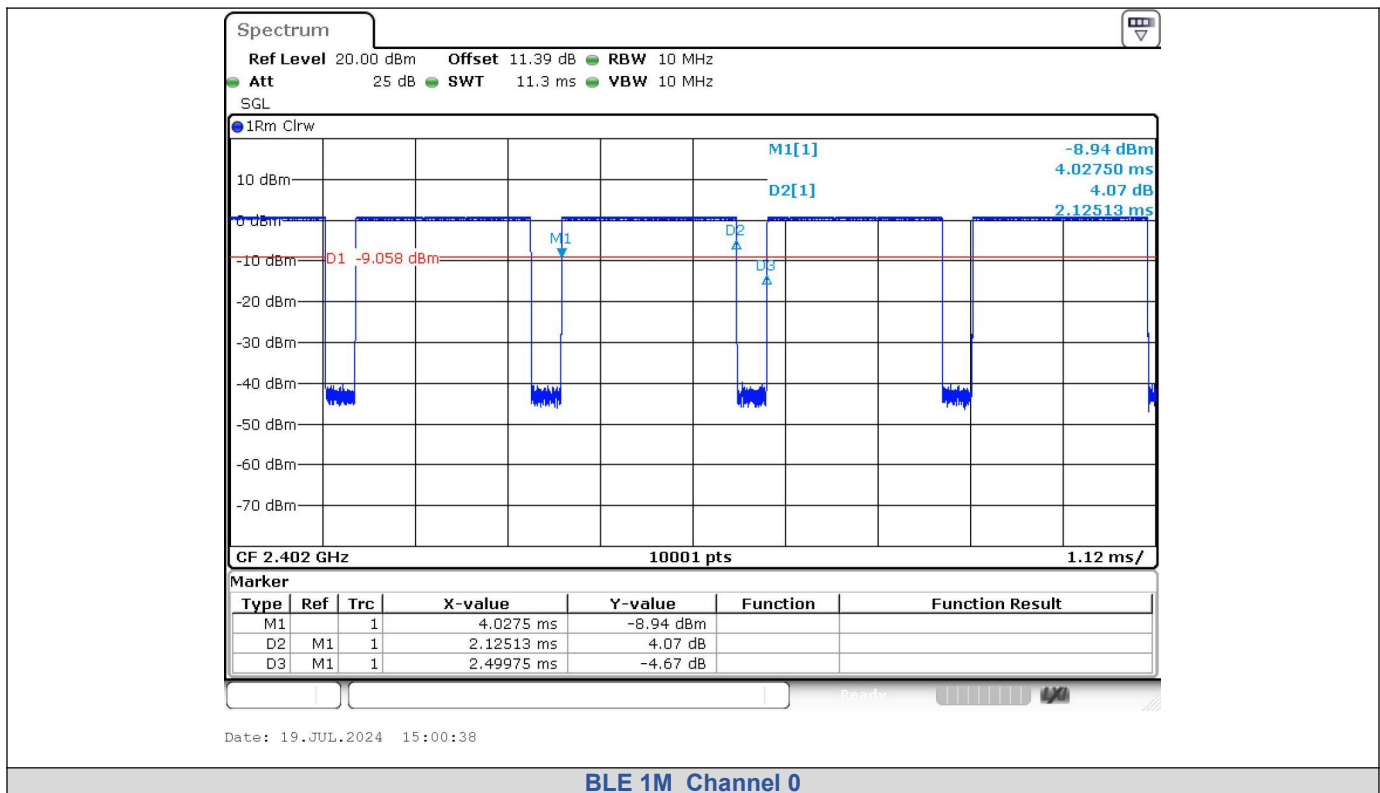
**30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39**

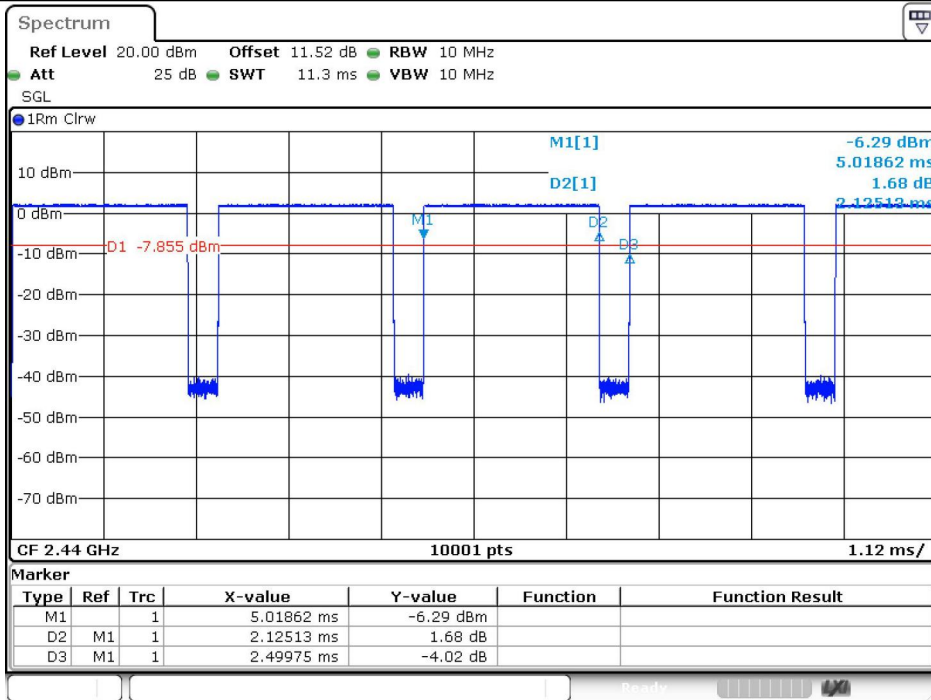
Duty Cycle

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.125	2.500	85.01	0.8501	0.7053	0.47
	19	2.125	2.500	85.01	0.8501	0.7053	0.47
	39	2.125	2.500	85.01	0.8501	0.7053	0.47
BLE 2M	0	1.072	2.499	42.91	0.4291	3.6744	0.93
	19	1.072	2.499	42.91	0.4291	3.6744	0.93
	39	1.073	2.500	42.93	0.4293	3.6724	0.93

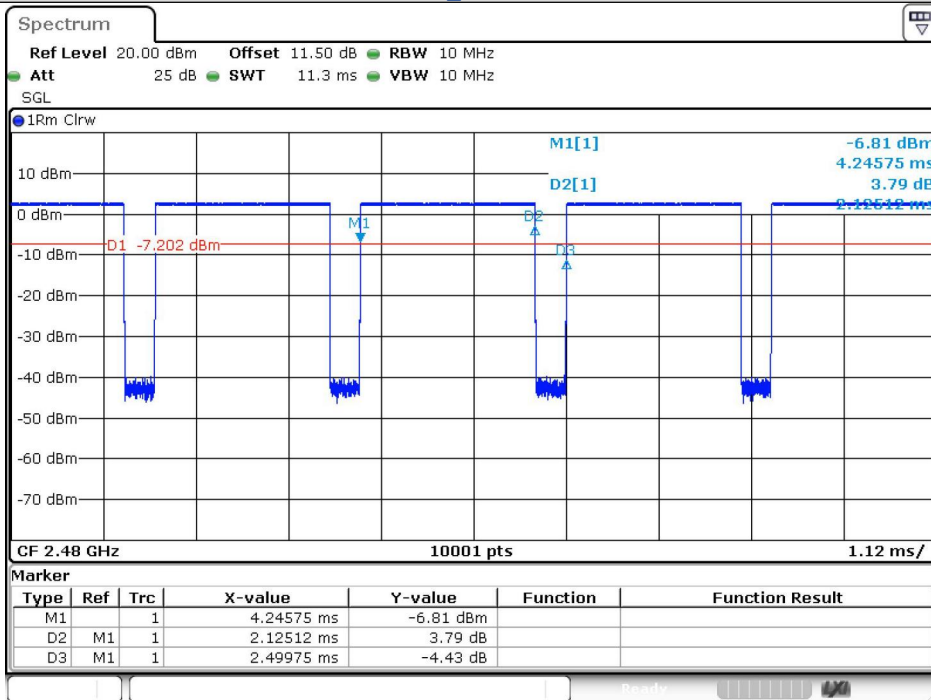
Test Graphs





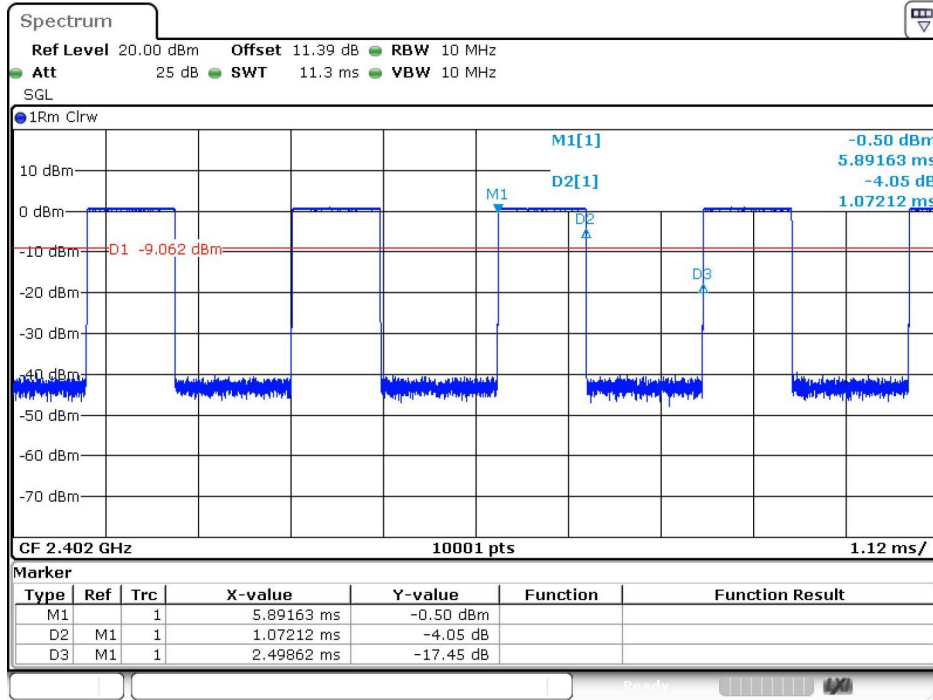
Date: 19.JUL.2024 15:03:38

BLE 1M_Channel 19



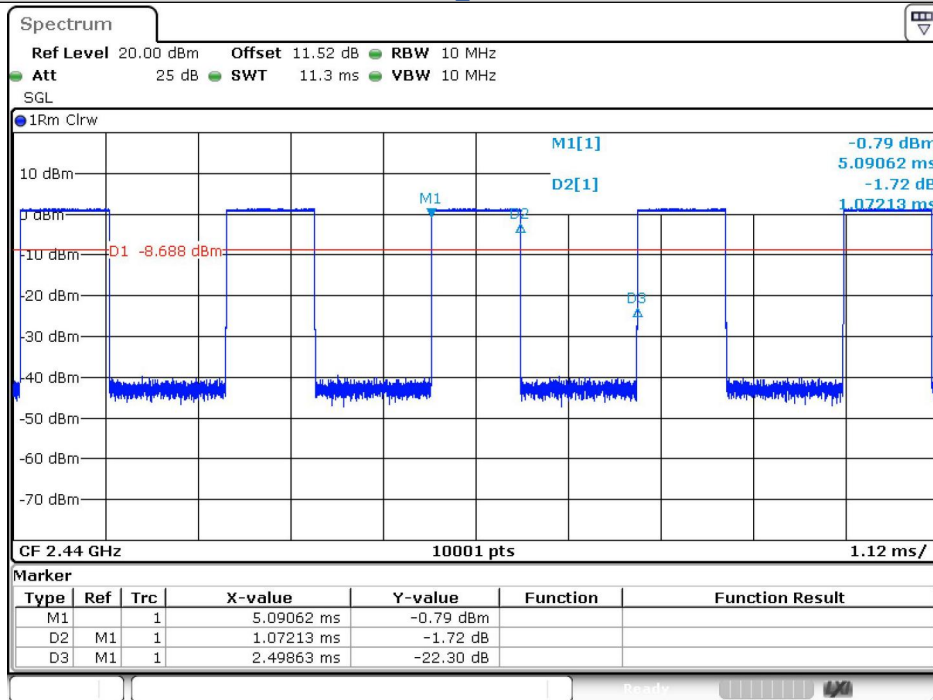
Date: 19.JUL.2024 15:05:45

BLE 1M_Channel 39



Date: 19.JUL.2024 15:08:21

BLE 2M_Channel 0



Date: 19.JUL.2024 15:12:10

BLE 2M_Channel 19



— 14 —

Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-14.689	≤8	PASS
BLE 1M	19	-13.815	≤8	PASS
BLE 1M	39	-13.773	≤8	PASS
BLE 2M	0	-18.004	≤8	PASS
BLE 2M	19	-17.693	≤8	PASS
BLE 2M	39	-16.866	≤8	PASS

Test Graphs

