

Appendix A Conduction Data for BLE:

1. Conducted Peak Output Power

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power Limit (dBm)	Result
BLE 1M	0	0.48	≤30	PASS
	19	0.17	≤30	PASS
	39	0.33	≤30	PASS
BLE 2M	0	0.72	≤30	PASS
	19	0.42	≤30	PASS
	39	0.49	≤30	PASS

2.Duty Cycle

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
BLE 1M	0	0.394	0.625	63.07	0.6307	2.0018
	19	0.394	0.625	63.07	0.6307	2.0018
	39	0.394	0.625	63.04	0.6304	2.0038
BLE 2M	0	0.208	0.625	33.35	0.3335	4.769
	19	0.208	0.625	33.33	0.3333	4.7716
	39	0.208	0.625	33.35	0.3335	4.769

Test Graphs

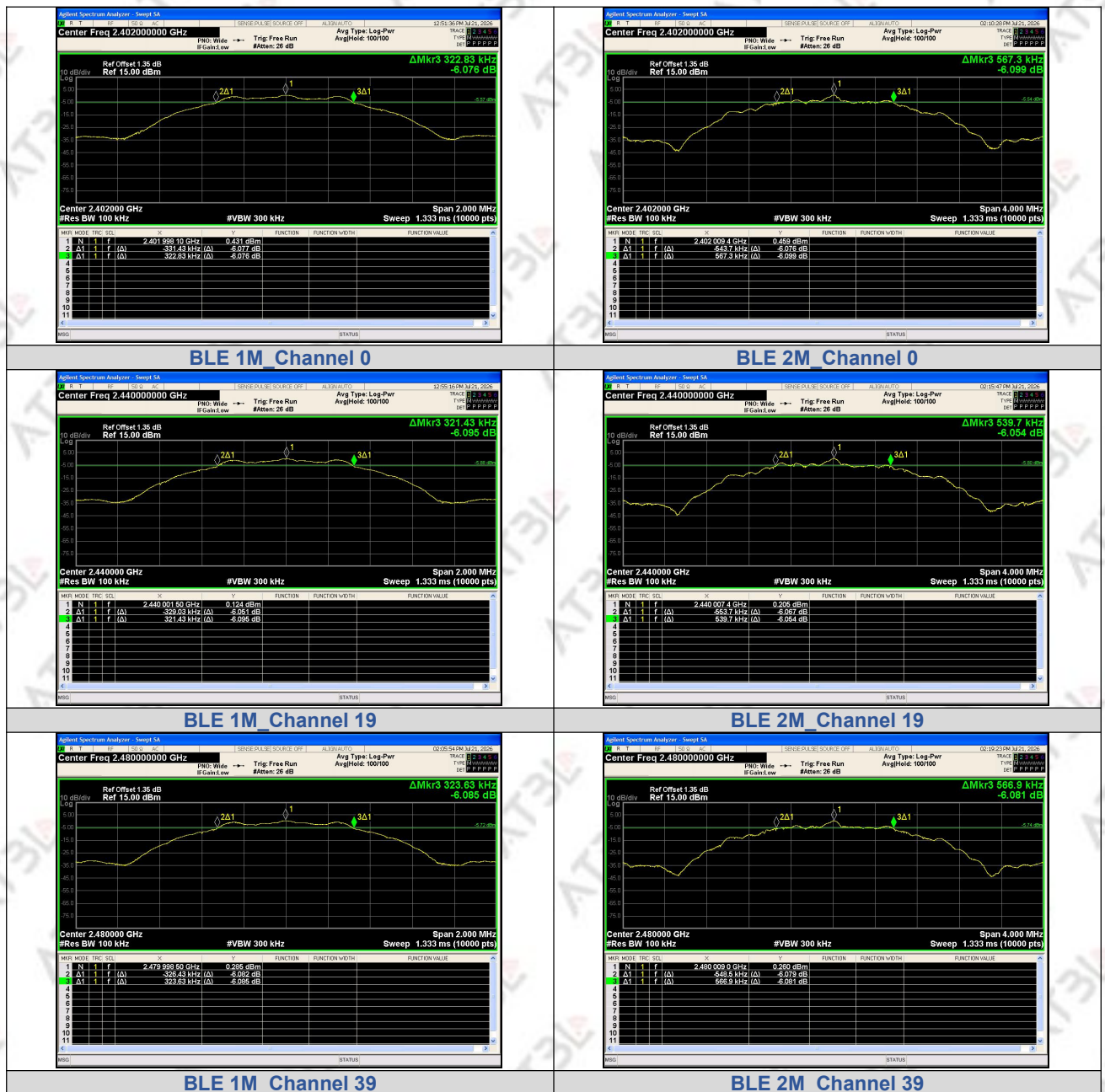


3.6dB Bandwidth and 99% Bandwidth

Test Result

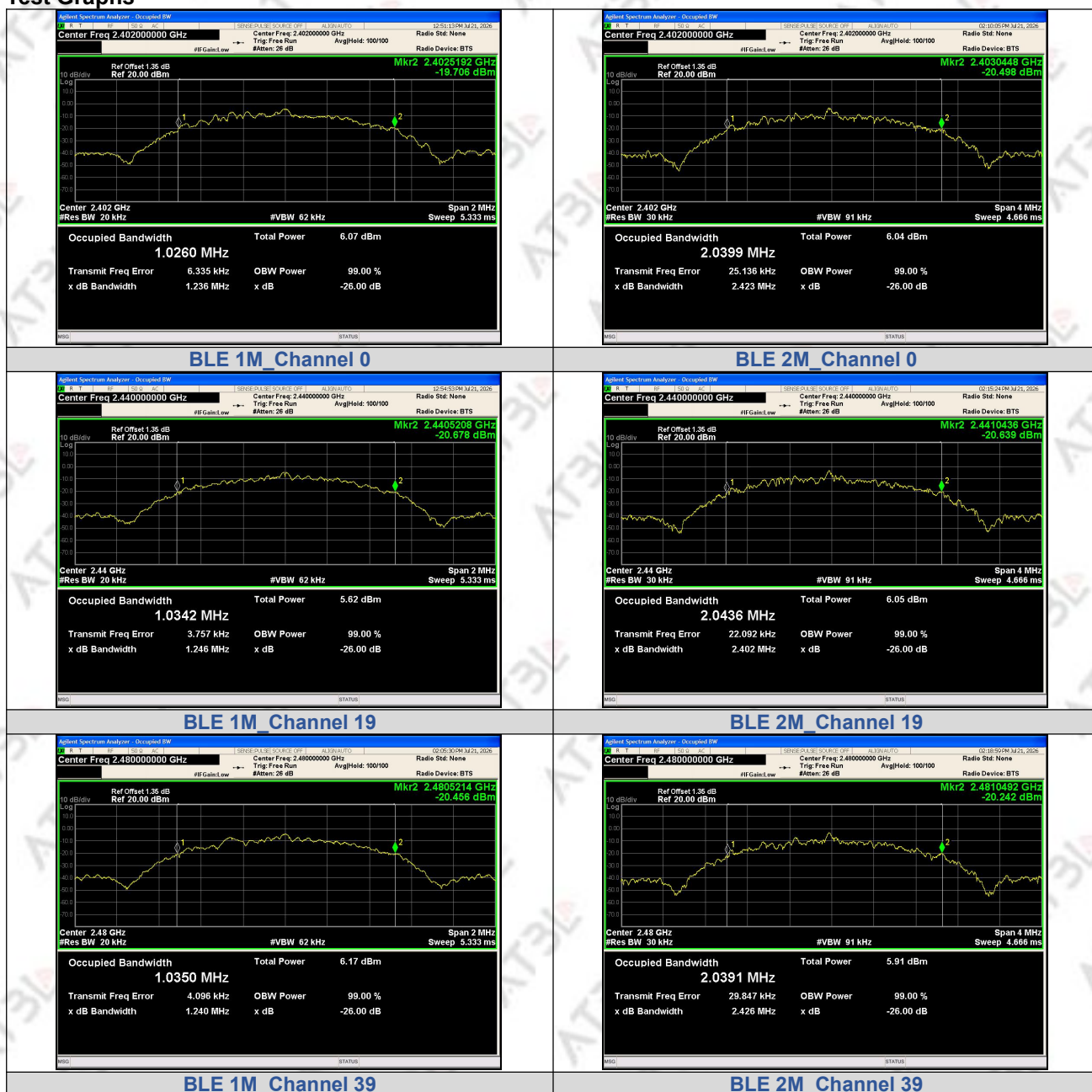
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.65	≥0.5	PASS
	19	2440	0.65		PASS
	39	2480	0.65		PASS
BLE 2M	0	2404	1.11		PASS
	19	2440	1.10		PASS
	39	2478	1.12		PASS

Test Graphs



Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0260
BLE 1M	19	2440	1.0342
BLE 1M	39	2480	1.0350
BLE 2M	0	2404	2.0399
BLE 2M	19	2440	2.0436
BLE 2M	39	2478	2.0391

Test Graphs

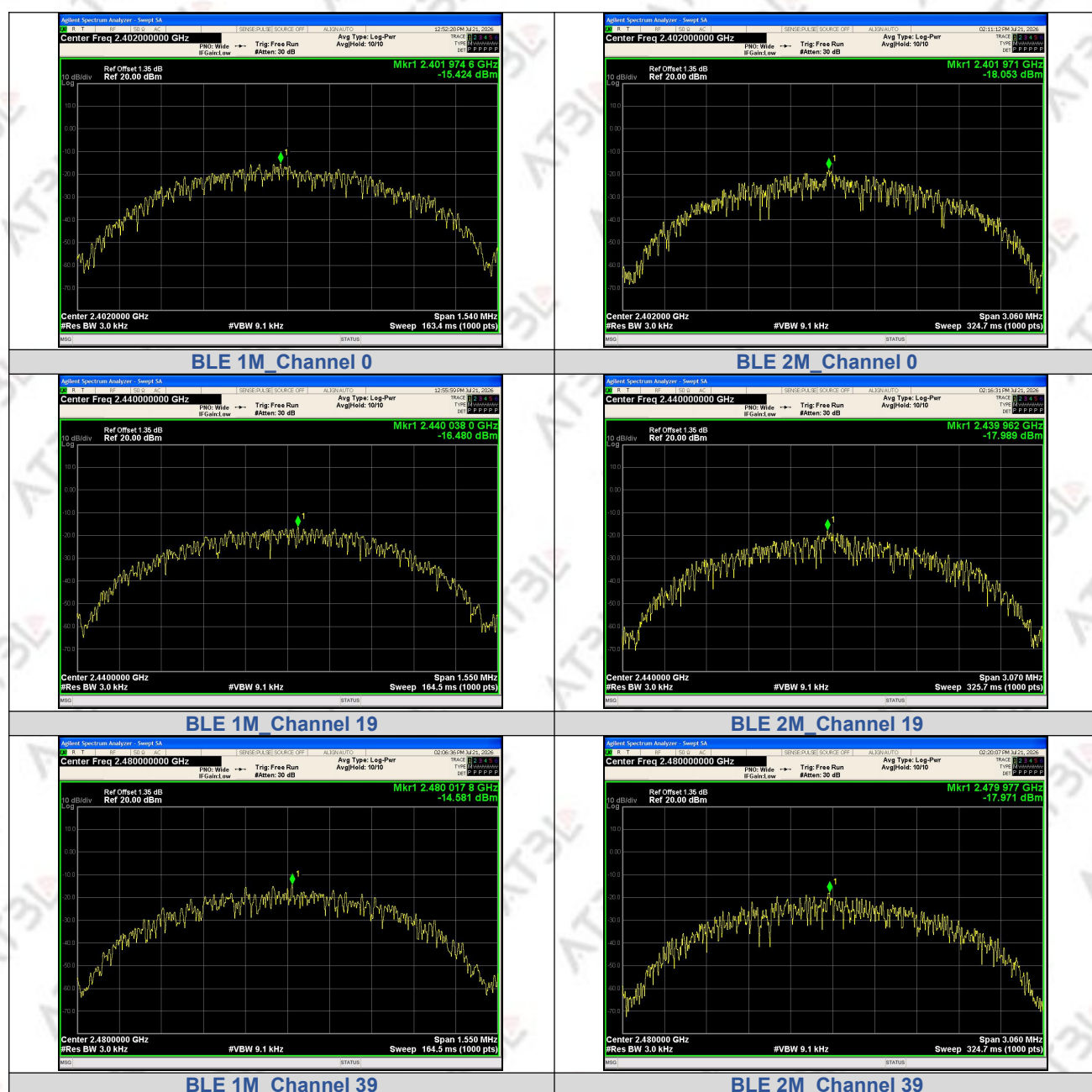


4.Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-15.42	≤8	PASS
BLE 1M	19	-16.48	≤8	PASS
BLE 1M	39	-14.58	≤8	PASS
BLE 2M	0	-18.05	≤8	PASS
BLE 2M	19	-17.99	≤8	PASS
BLE 2M	39	-17.97	≤8	PASS

Test Graphs



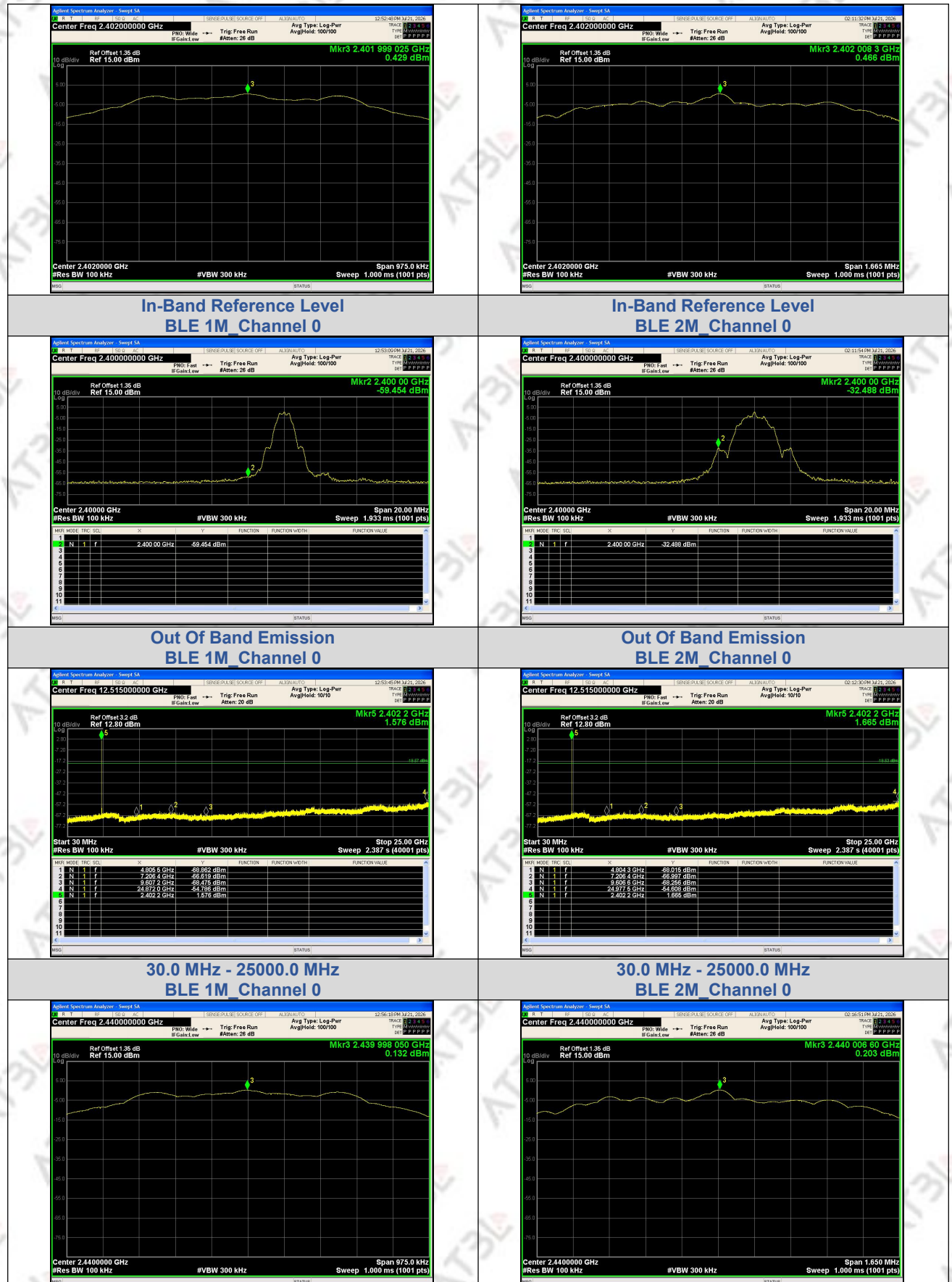
5. Conducted Spurious & Band Edge Emission

Test Result

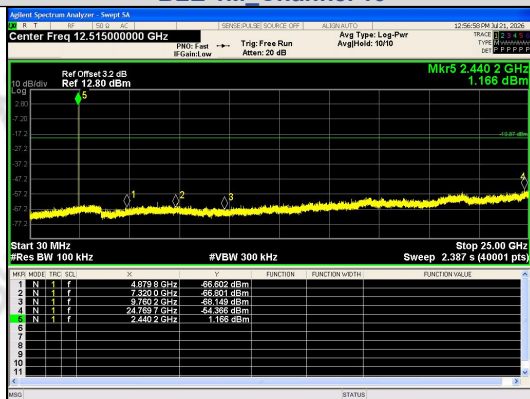
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-59.454	-19.57	-39.884	PASS
		4805.51	-68.862	-19.57	-49.292	PASS
		7206.38	-66.619	-19.57	-47.049	PASS
		9607.24	-68.475	-19.57	-48.905	PASS
		24872.0	-54.786	-19.57	-35.216	PASS
	19	4879.80	-66.602	-19.87	-46.732	PASS
		7319.99	-66.801	-19.87	-46.931	PASS
		9760.18	-68.148	-19.87	-48.278	PASS
		24769.7	-54.367	-19.87	-34.496	PASS
	39	2483.50	-63.863	-19.73	-44.133	PASS
		4959.70	-65.916	-19.73	-46.186	PASS
		7439.85	-66.775	-19.73	-47.045	PASS
		9918.12	-68.668	-19.73	-48.938	PASS
		24822.1	-54.081	-19.73	-34.351	PASS
BLE 2M	0	2400.00	-32.488	-19.53	-12.958	PASS
		4804.26	-68.015	-19.53	-48.485	PASS
		7206.38	-66.997	-19.53	-47.467	PASS
		9606.62	-68.256	-19.53	-48.726	PASS
		24977.5	-54.608	-19.53	-35.078	PASS
	19	4880.42	-68.241	-19.8	-48.441	PASS
		7318.74	-66.216	-19.8	-46.416	PASS
		9761.43	-67.505	-19.8	-47.705	PASS
		24855.2	-54.077	-19.8	-34.277	PASS
	39	2483.50	-62.367	-19.74	-42.627	PASS
		4960.95	-68.366	-19.74	-48.626	PASS
		7438.60	-66.232	-19.74	-46.492	PASS
		9919.37	-68.154	-19.74	-48.414	PASS
		24960.0	-54.607	-19.74	-34.867	PASS

Note: input compensation coefficient (dB)= Cable Loss (dB)

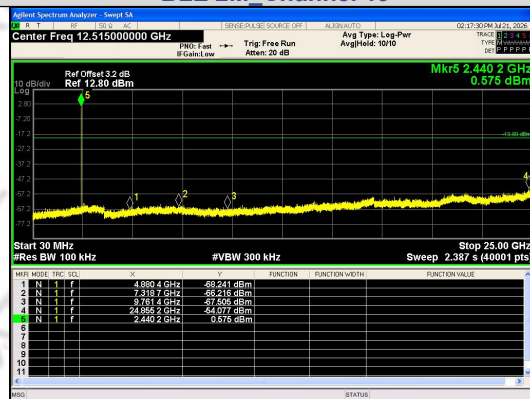
Test Graphs



In-Band Reference Level BLE 1M_Channel 19



In-Band Reference Level BLE 2M_Channel 19



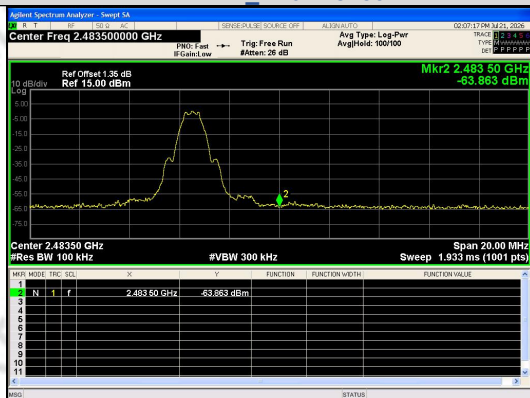
30.0 MHz - 25000.0 MHz BLE 1M_Channel 19



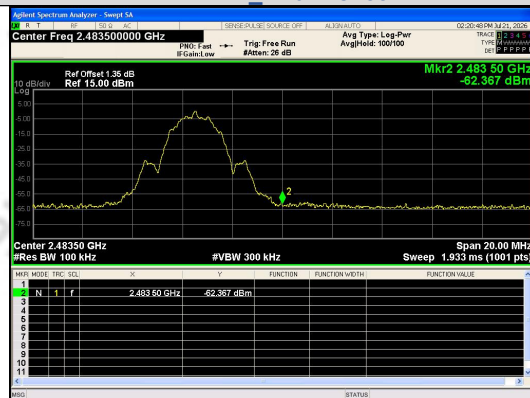
30.0 MHz - 25000.0 MHz BLE 2M_Channel 19



In-Band Reference Level BLE 1M_Channel 39

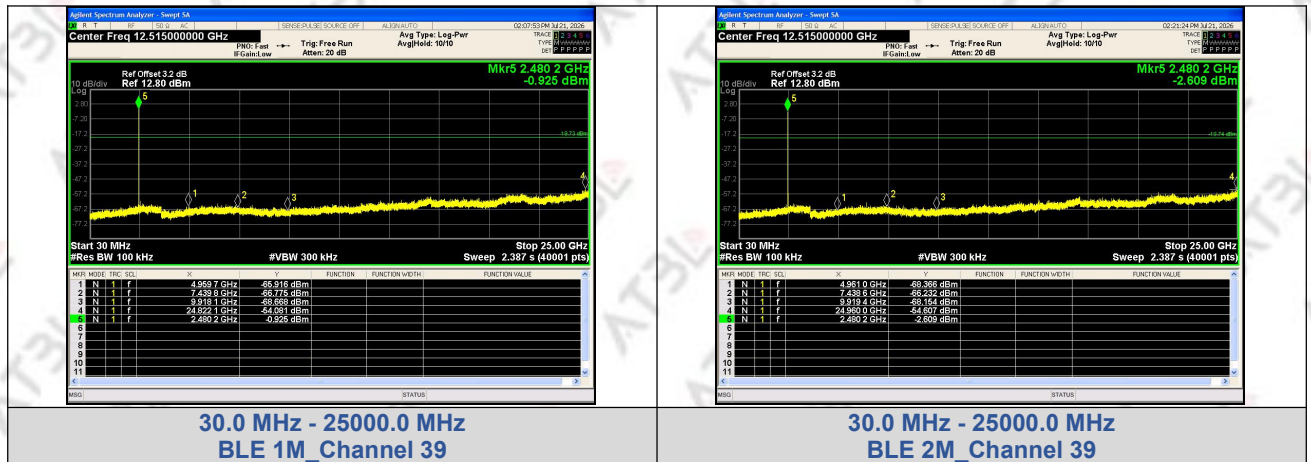


In-Band Reference Level BLE 2M_Channel 39



Out Of Band Emission BLE 1M_Channel 39

Out Of Band Emission BLE 2M_Channel 39



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