



RF Conducted Test - appendix III Bluetooth_(BLE)_Test data.

E.U.T:	Active Loudspeaker
Model Number:	CUBITT 5
Sample ID	33000262245
Sample(s) Status:	Engineer sample
Date of Receipt:	2026.02.06
Date of Test:	2026.02.06 ~ 2026.02.09
FCC ID:	2BUKJCUBITT5
IC:	35125-CUBITT5
Report No.	2026020799823601-00
Tester	Hugh Zhang

A.1 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	0.393	0.625	62.91	0.6291	2.0128	2.5445
	19	0.393	0.625	62.97	0.6297	2.0087	2.5445
	39	0.393	0.625	62.91	0.6291	2.0128	2.5445
BLE 2M	0	0.208	0.625	33.33	0.3333	4.7716	4.8077
	19	0.208	0.625	33.30	0.3330	4.7756	4.8077
	39	0.208	0.625	33.35	0.3335	4.769	4.8077

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

Test Graphs



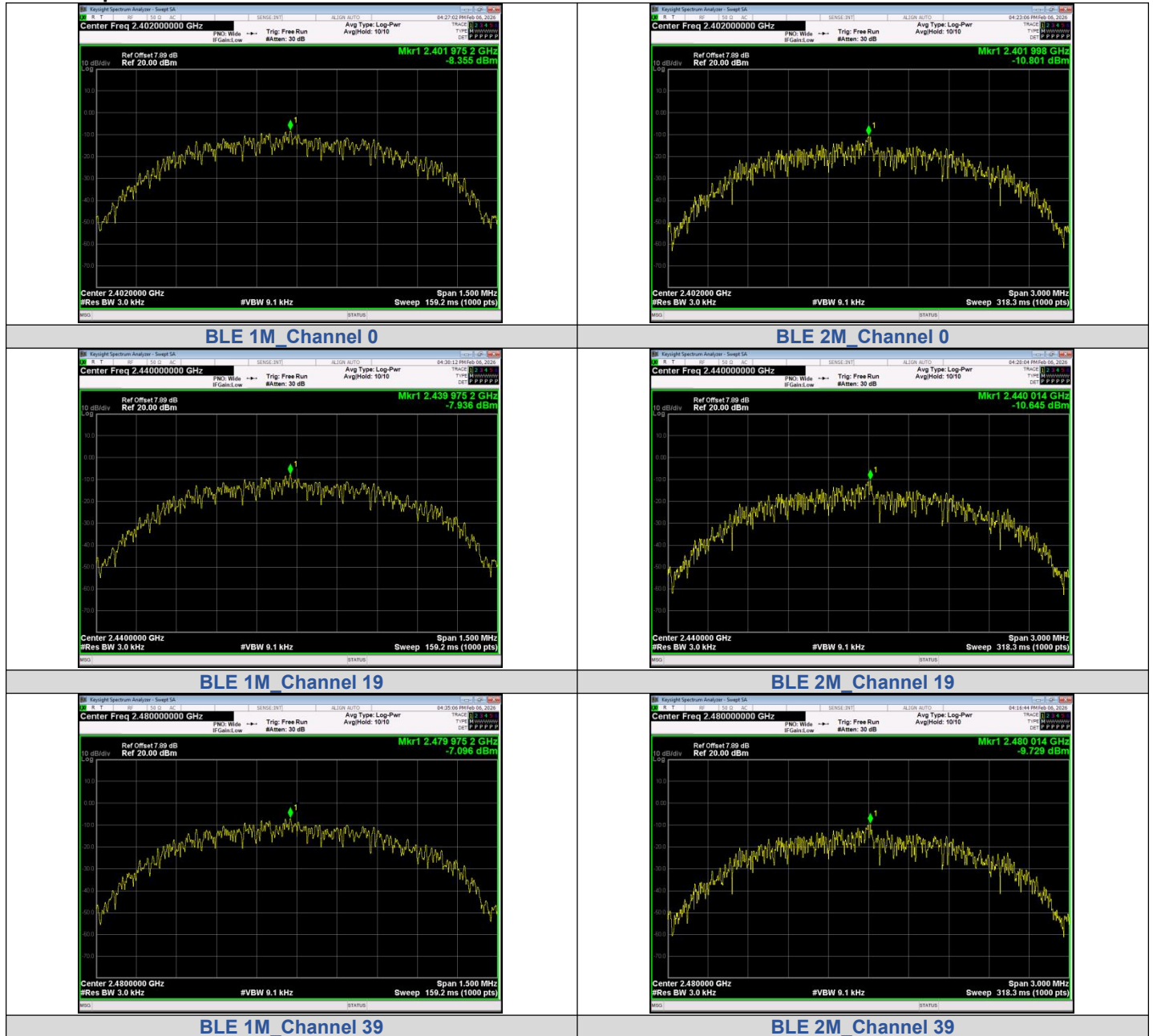
A.2 POWER SPECTRAL DENSITY

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-8.360	≤8	PASS
BLE 1M	19	-7.940	≤8	PASS
BLE 1M	39	-7.100	≤8	PASS
BLE 2M	0	-10.800	≤8	PASS
BLE 2M	19	-10.640	≤8	PASS
BLE 2M	39	-9.730	≤8	PASS

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

Test Graphs



A.3 CONDUCTED PEAK OUTPUT POWER

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
BLE 1M	0	6.67	4.65	None	≤30	PASS
	19	7.05	5.07	None	≤30	PASS
	39	8.03	6.35	None	≤30	PASS
BLE 2M	0	6.71	4.69	None	≤30	PASS
	19	7.08	5.11	None	≤30	PASS
	39	8.00	6.31	None	≤30	PASS

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

Mode	Channel	Peak Output Power (dBm)	Peak Power Limit (dBm)	ISED EIRP (dBm)	ISED EIRP Limit (dBm)	Max. Avg. Power (dBm)	Result
BLE 1M	0	6.67	≤30	9.97	≤36.02	None	PASS
	19	7.05	≤30	10.35	≤36.02	None	PASS
	39	8.03	≤30	11.33	≤36.02	None	PASS
BLE 2M	0	6.71	≤30	10.01	≤36.02	None	PASS
	19	7.08	≤30	10.38	≤36.02	None	PASS
	39	8.00	≤30	11.3	≤36.02	None	PASS

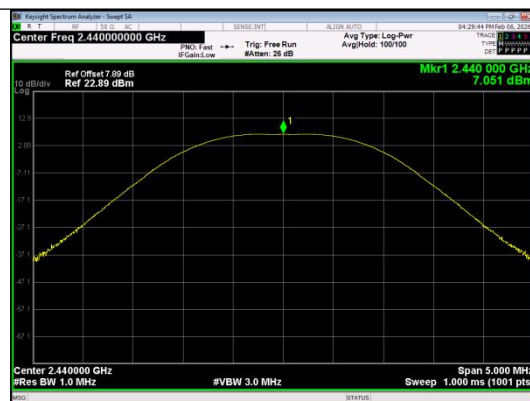
Note: input compensation coefficient (dB)= Cable Loss (dB)

EIRP=Output Power+ANT Gain

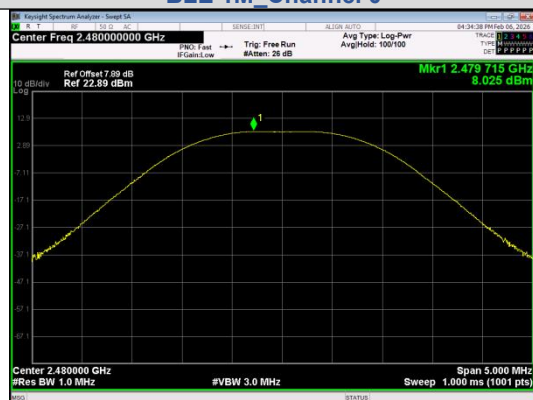
Test Graphs



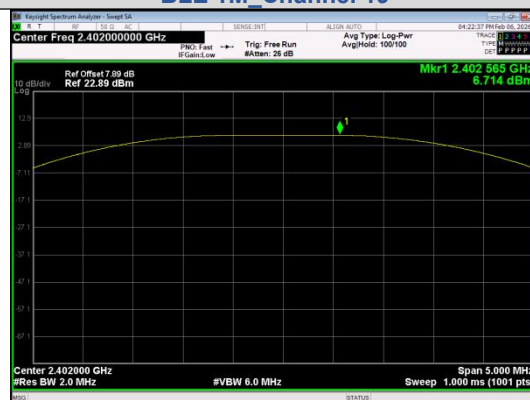
Peak Output Power
BLE 1M_Channel 0



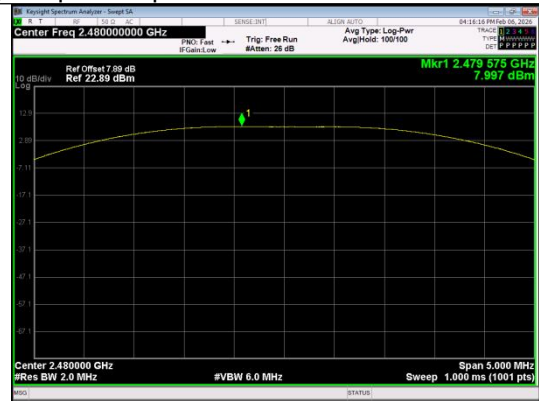
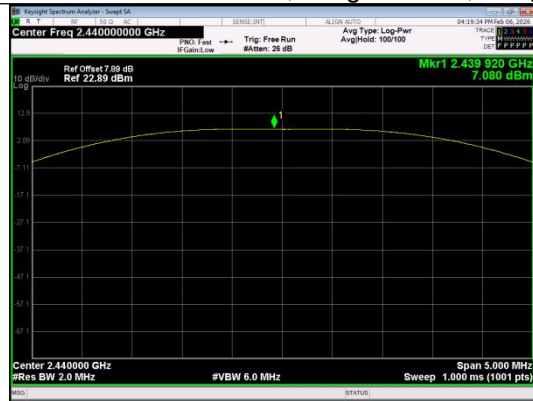
Peak Output Power
BLE 1M_Channel 19



Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



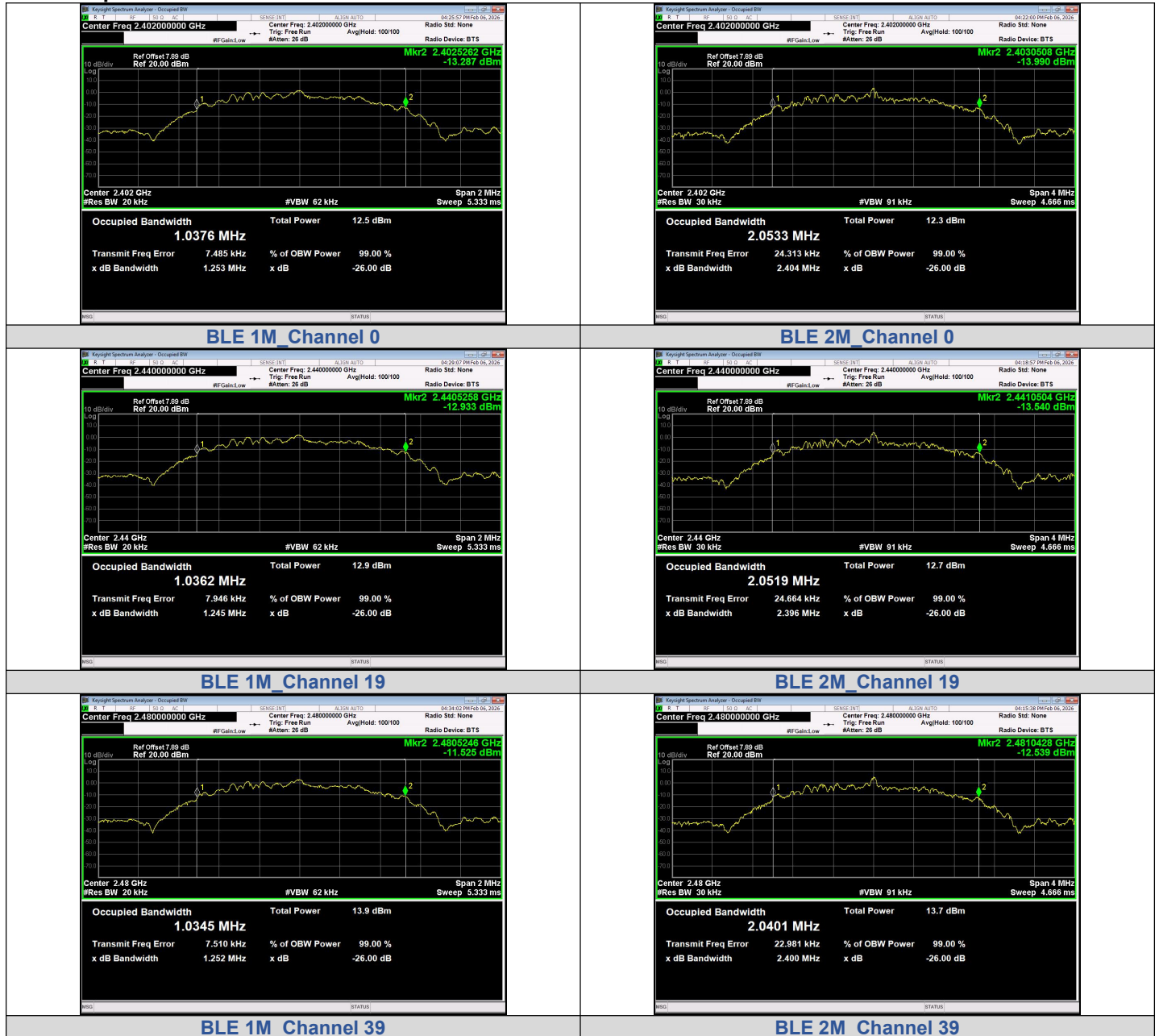
A.4 99% BANDWIDTH

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0376
BLE 1M	19	2440	1.0362
BLE 1M	39	2480	1.0345
BLE 2M	0	2402	2.0533
BLE 2M	19	2440	2.0519
BLE 2M	39	2480	2.0401

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

Test Graphs



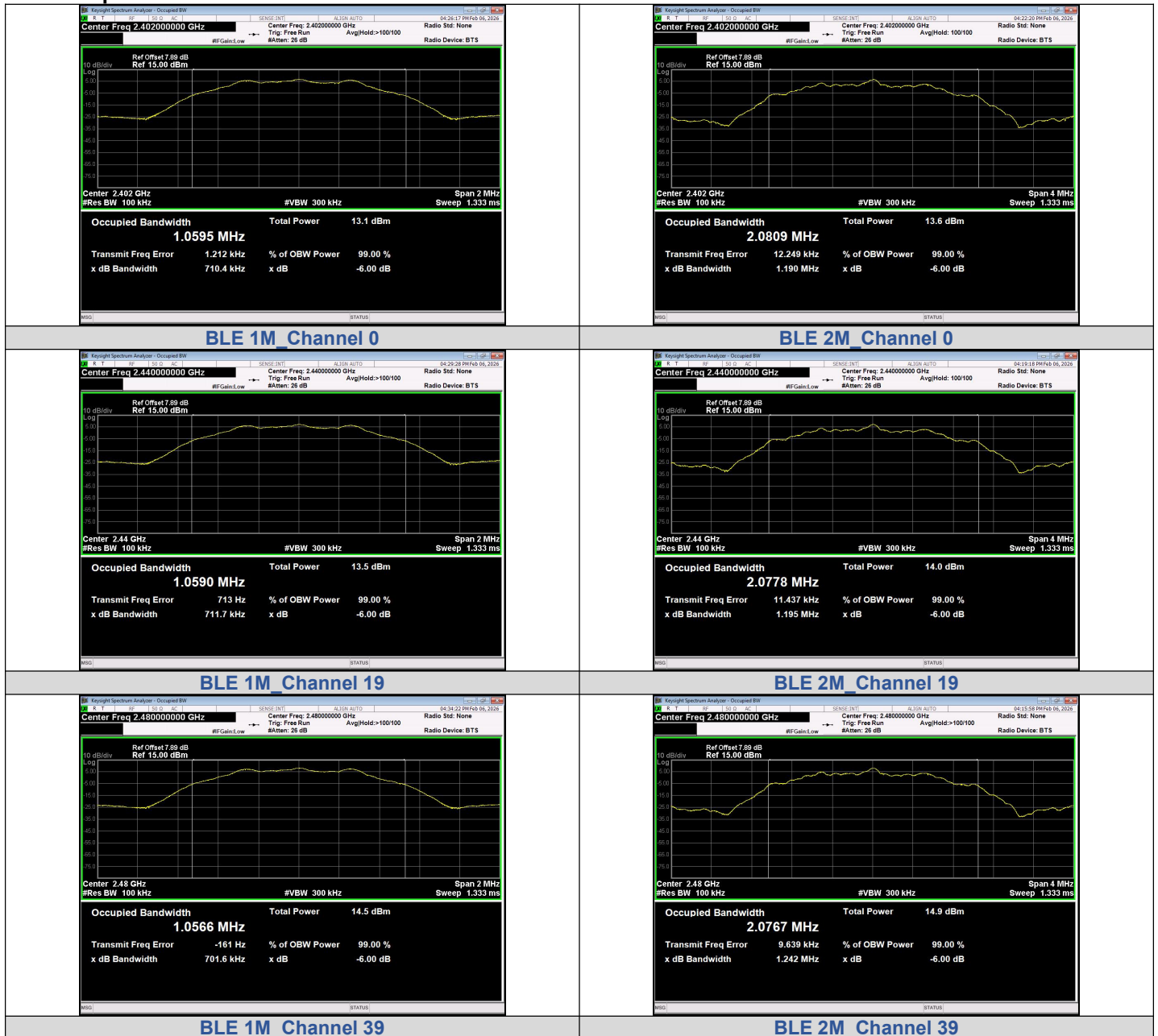
A.5 6DB BANDWIDTH

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.7104	≥0.5	PASS
	19	2440	0.7117		PASS
	39	2480	0.7016		PASS
BLE 2M	0	2402	1.190		PASS
	19	2440	1.195		PASS
	39	2480	1.242		PASS

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

Test Graphs



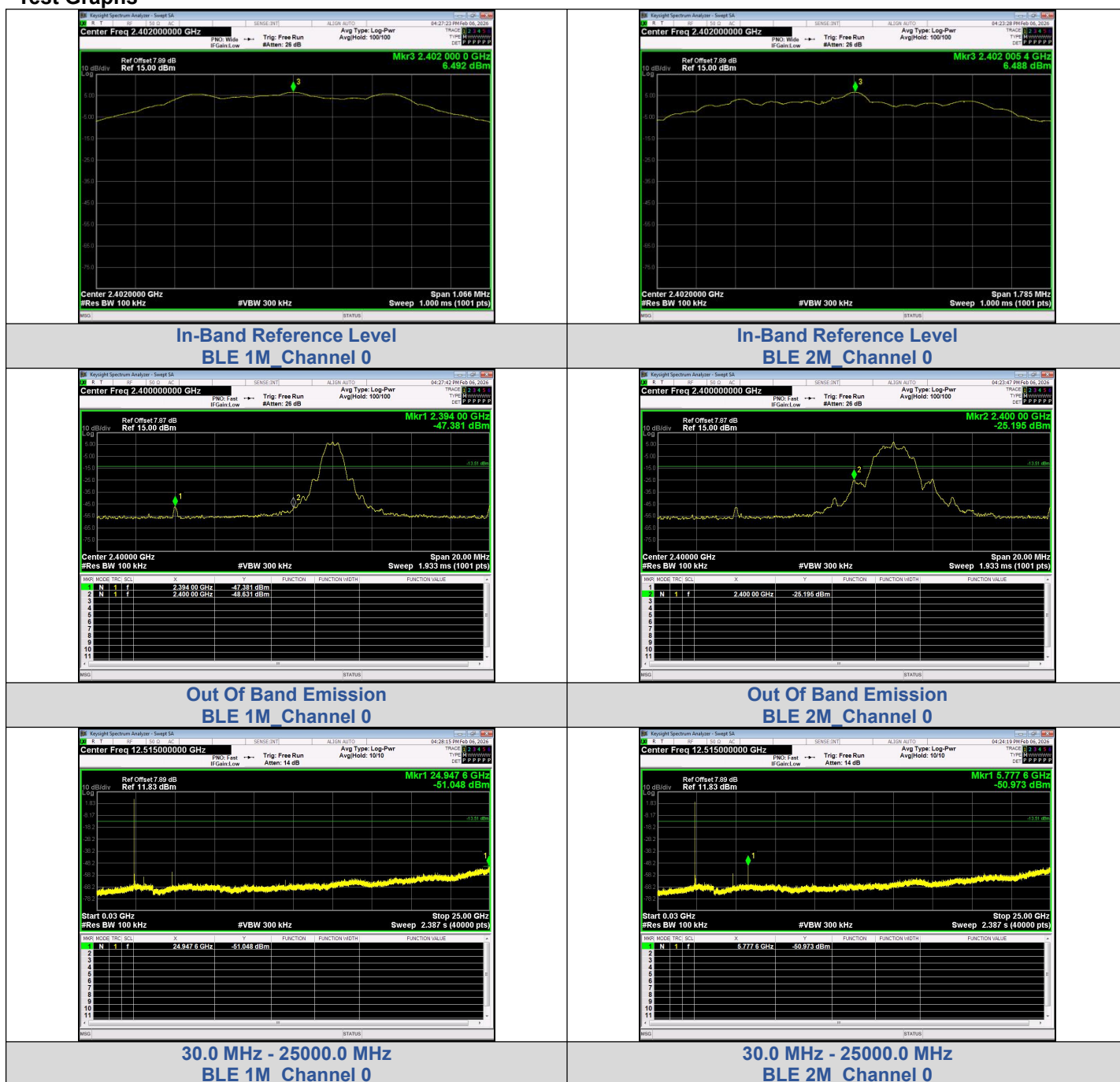
A.6 CONDUCTED SPURIOUS & BAND EDGE EMISSION

Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2394.00	-47.381	-13.51	-33.871	PASS
		2400.00	-48.631	-13.51	-35.121	PASS
		24947.6	-51.047	-13.51	-37.538	PASS
	19	24929.5	-51.899	-13.15	-38.749	PASS
		2483.50	-52.463	-12.15	-40.313	PASS
		2487.73	-50.285	-12.15	-38.135	PASS
BLE 2M	0	2400.00	-25.195	-13.51	-11.685	PASS
		5777.61	-50.973	-13.51	-37.463	PASS
	19	24886.4	-50.355	-13.13	-37.225	PASS
		2483.50	-49.820	-12.21	-37.610	PASS
	39	24946.3	-50.843	-12.21	-38.633	PASS

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

Test Graphs

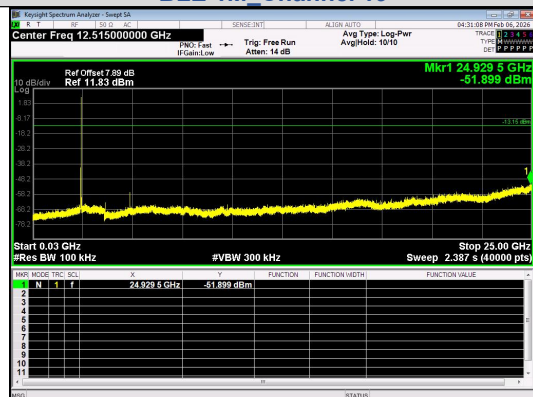




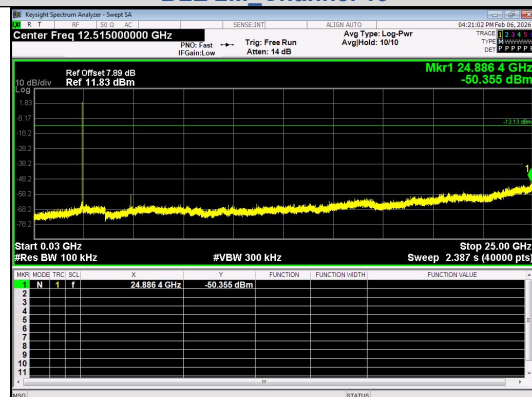
In-Band Reference Level
BLE 1M Channel 19



In-Band Reference Level
BLE 2M Channel 19



30.0 MHz - 25000.0 MHz
BLE 1M Channel 19



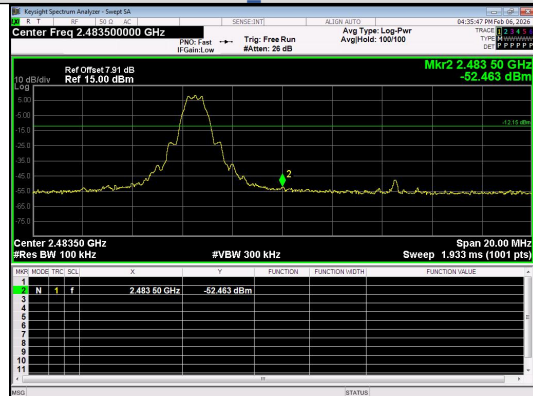
30.0 MHz - 25000.0 MHz
BLE 2M Channel 19



In-Band Reference Level
BLE 1M Channel 39



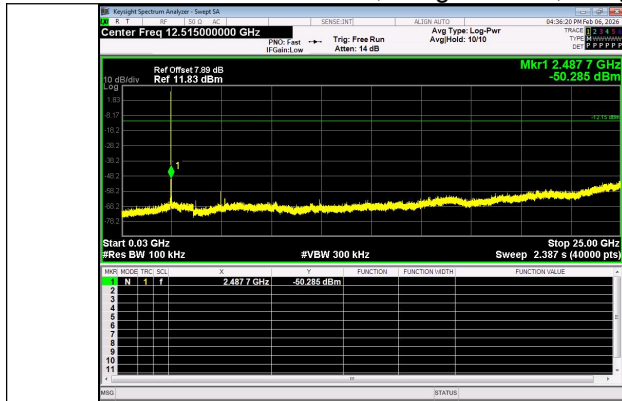
In-Band Reference Level
BLE 2M Channel 39



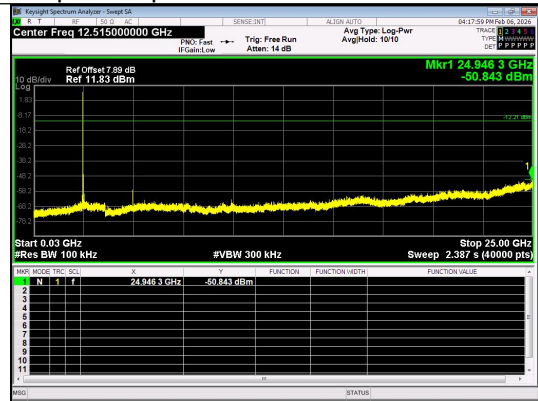
Out Of Band Emission
BLE 1M Channel 39



Out Of Band Emission
BLE 2M Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39