



Keyway Testing Technology (Guangdong) Co., Ltd
Room 2102, Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park,
No.30 of Tangxia District, Dongshen Road, Tangxia Town, Dongguan, 523710,
People's Republic of China

E.U.T:	POWERED SPEAKERS
Model Number:	DVPS1.0
Trade Name:	DUM
Date of Receipt:	Aug 28, 2025
Date of Test:	Aug 28 ~ Nov 17, 2025
FCC ID:	2A8L3-DVPS2025
IC ID:	29087-DVPS000001

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	2.125	2.499	85.03	0.8503	0.7043	0.4706
	19	2.126	2.499	85.08	0.8508	0.7017	0.4704
	39	2.125	2.498	85.07	0.8507	0.7022	0.4706
BLE 2M	0	1.072	1.250	85.83	0.8583	0.6636	0.9328
	19	1.072	1.250	85.80	0.8580	0.6651	0.9328
	39	1.072	1.250	85.79	0.8579	0.6656	0.9328

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

Test Graphs



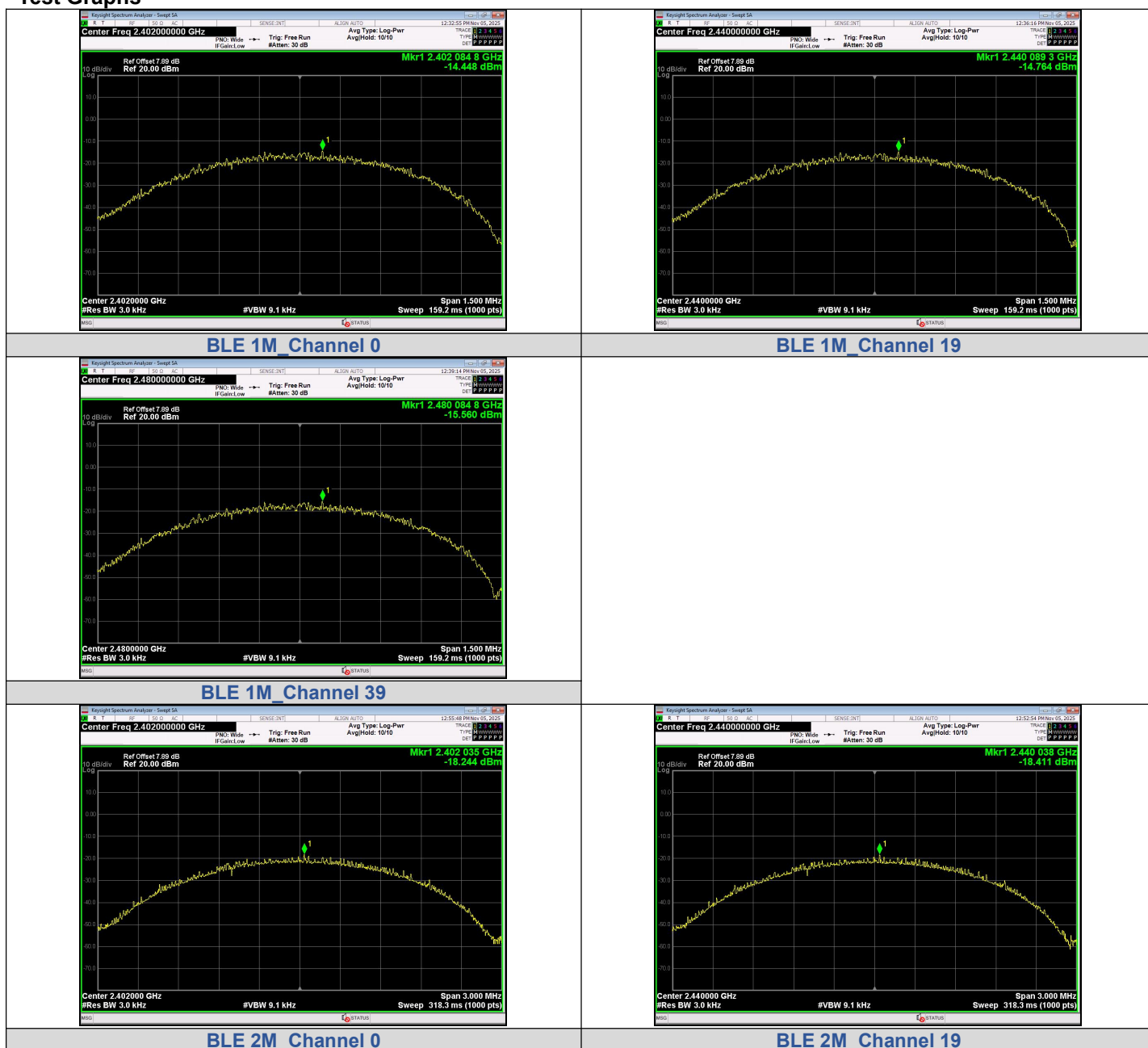
A.2 POWER SPECTRAL DENSITY

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-14.45	≤8	PASS
BLE 1M	19	-14.76	≤8	PASS
BLE 1M	39	-15.56	≤8	PASS
BLE 2M	0	-18.24	≤8	PASS
BLE 2M	19	-18.41	≤8	PASS
BLE 2M	39	-18.96	≤8	PASS

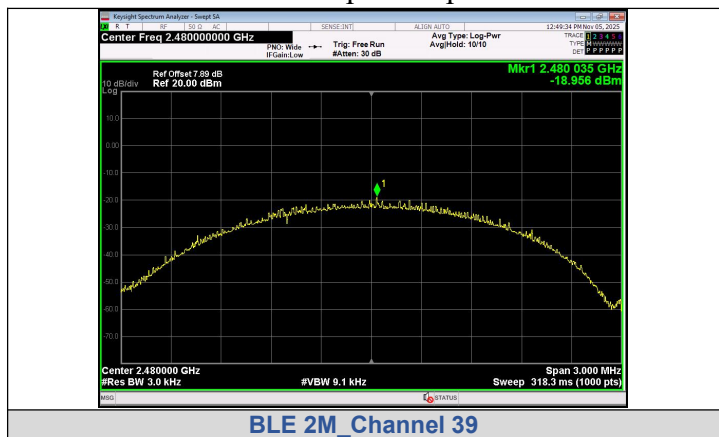
Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs





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A.3 CONDUCTED PEAK OUTPUT POWER

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
BLE 1M	0	1.13	1.3	None	≤30	PASS
	19	0.79	1.2	None	≤30	PASS
	39	0.12	1.03	None	≤30	PASS
BLE 2M	0	1.13	1.3	None	≤30	PASS
	19	0.85	1.22	None	≤30	PASS
	39	0.14	1.03	None	≤30	PASS

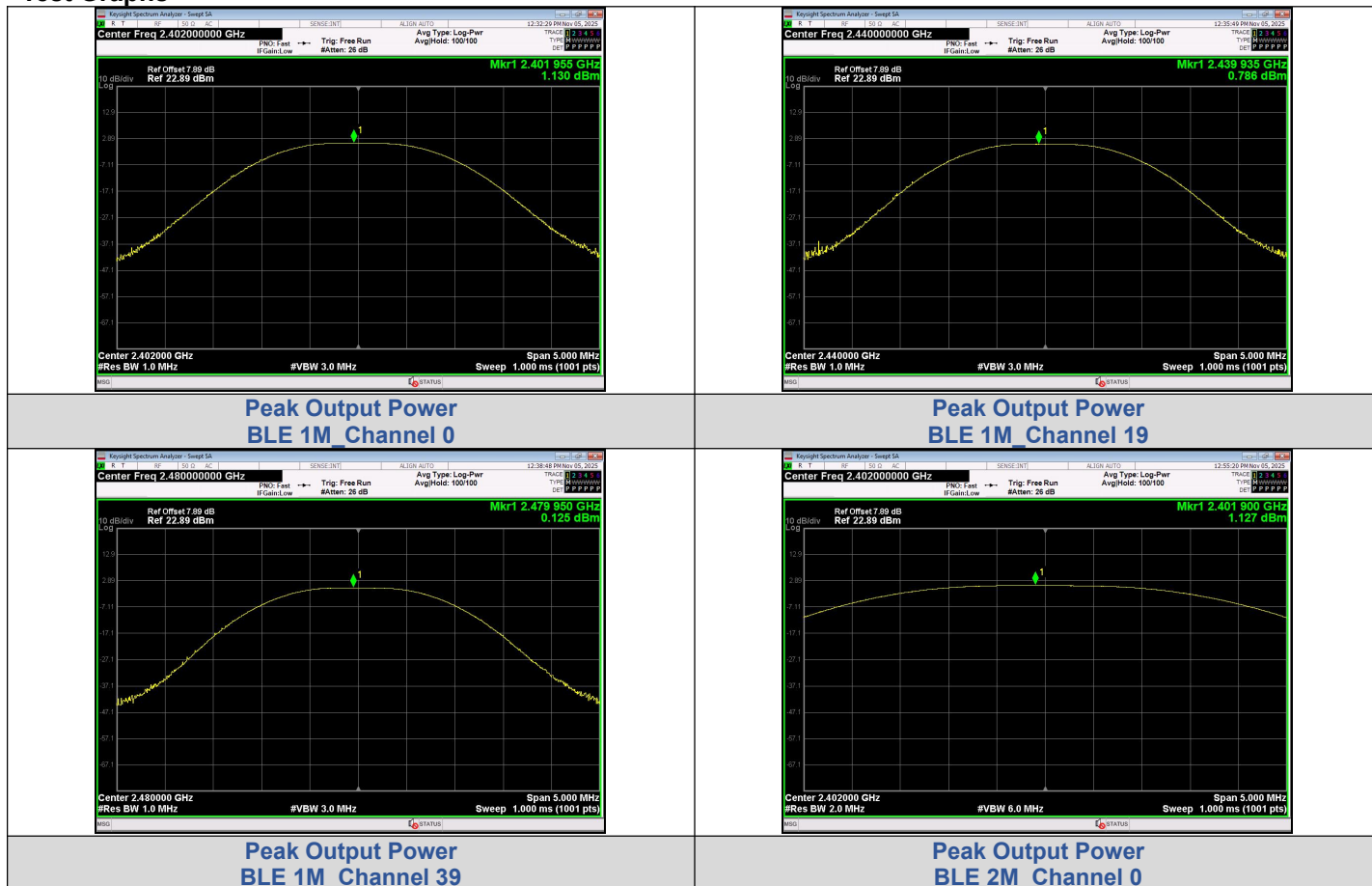
Note: input compensation coefficient (dB)= Cable Loss (dB)

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	1.13	≤30	-3.07	≤36.02	None	PASS
	19	0.79	≤30	-3.41	≤36.02	None	PASS
	39	0.12	≤30	-4.08	≤36.02	None	PASS
BLE 2M	0	1.13	≤30	-3.07	≤36.02	None	PASS
	19	0.85	≤30	-3.35	≤36.02	None	PASS
	39	0.14	≤30	-4.06	≤36.02	None	PASS

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

EIRP=Output Power+ANT Gain

Test Graphs

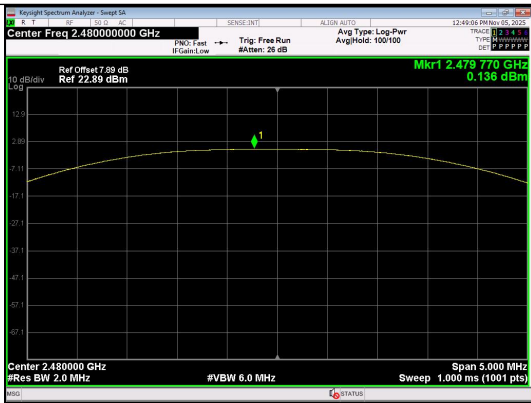




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Peak Output Power
BLE 2M_Channel 19



Peak Output Power
BLE 2M_Channel 39

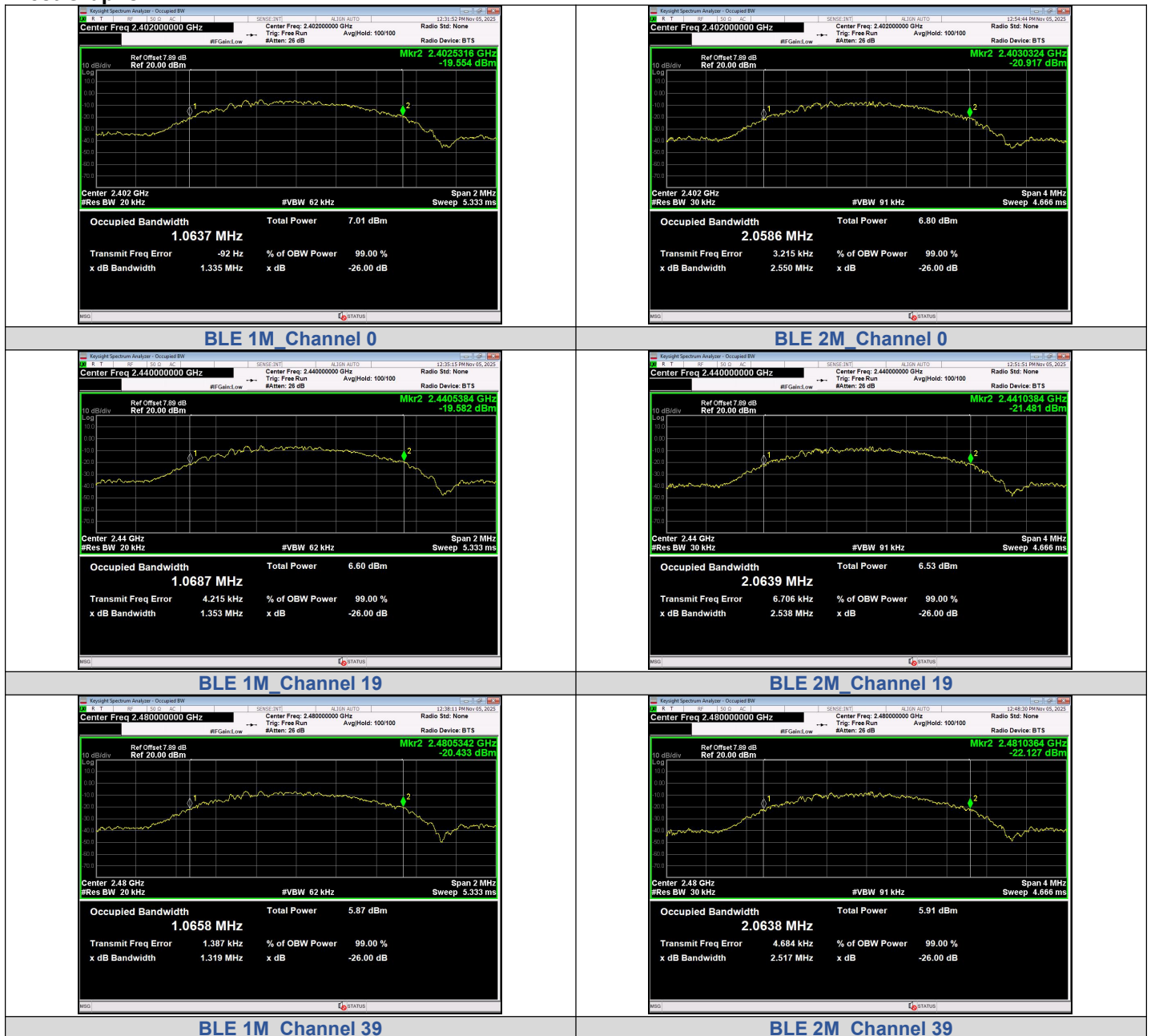
A.4 99% BANDWIDTH

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0637
BLE 1M	19	2440	1.0687
BLE 1M	39	2480	1.0658
BLE 2M	0	2402	2.0586
BLE 2M	19	2440	2.0639
BLE 2M	39	2480	2.0638

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

Test Graphs



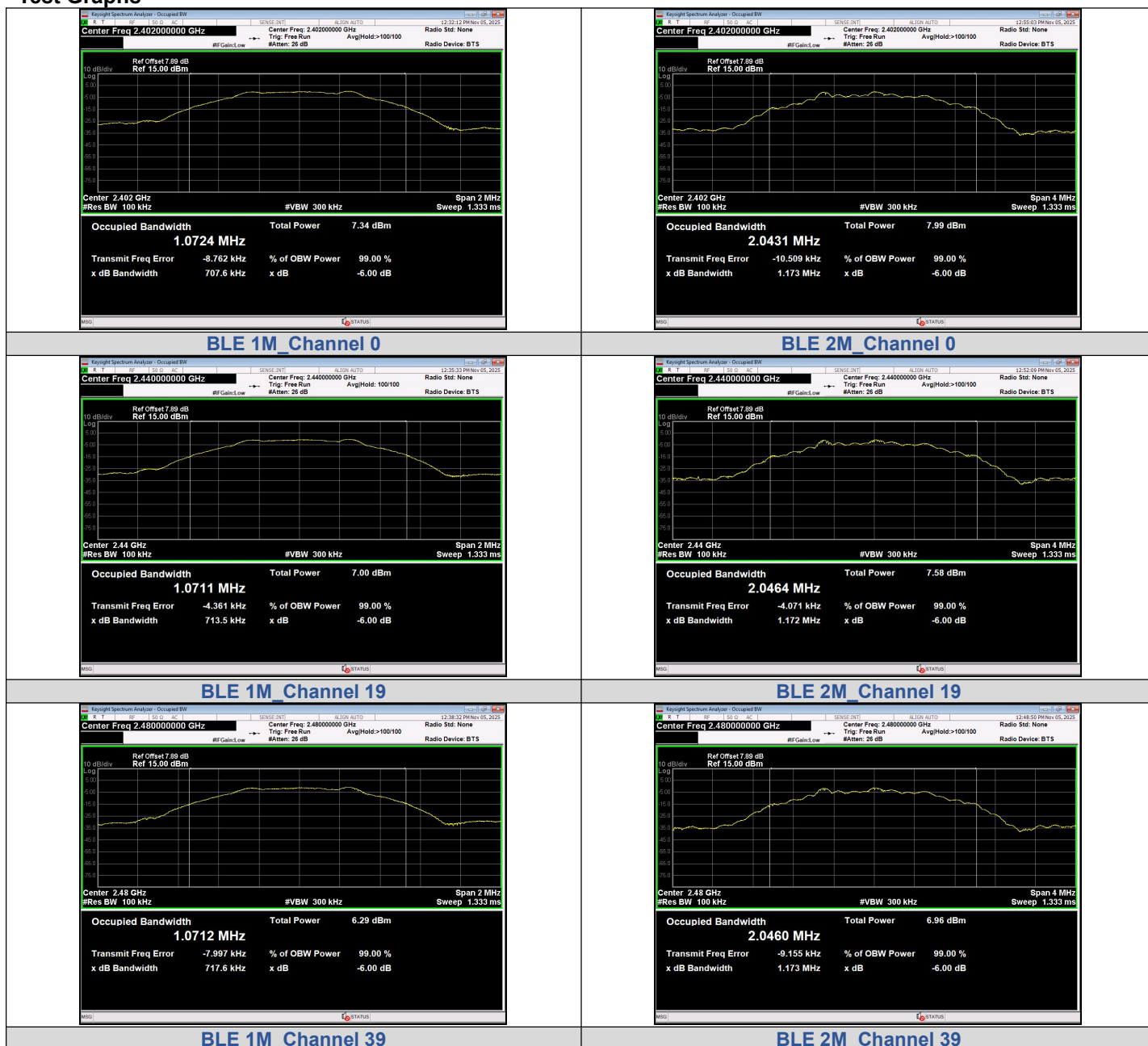
A.5 6DB BANDWIDTH

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.7076	≥0.5	PASS
	19	2440	0.7135		PASS
	39	2480	0.7176		PASS
BLE 2M	0	2402	1.173		PASS
	19	2440	1.172		PASS
	39	2480	1.173		PASS

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

Test Graphs



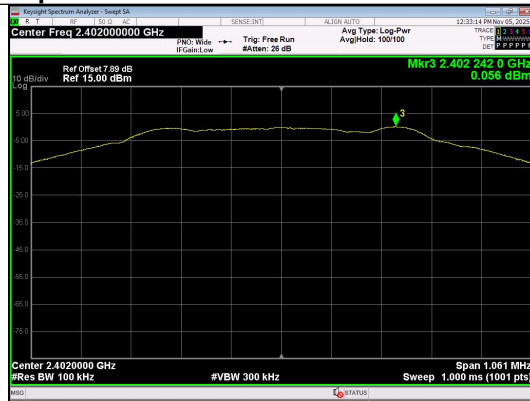
A.6 CONDUCTED SPURIOUS & BAND EDGE EMISSION

Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2390.26	-50.496	-19.94	-30.556	PASS
		2400.00	-52.315	-19.94	-32.375	PASS
		21141.4	-53.171	-19.94	-33.231	PASS
	19	21296.2	-53.183	-20.29	-32.893	PASS
	39	2483.50	-53.850	-20.93	-32.920	PASS
BLE 2M	0	2400.00	-31.201	-20.4	-10.801	PASS
		21193.2	-52.629	-20.4	-32.229	PASS
	19	909.59	-50.617	-20.68	-29.937	PASS
	39	2483.50	-54.853	-21.34	-33.513	PASS
		21241.3	-53.039	-21.34	-31.699	PASS

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

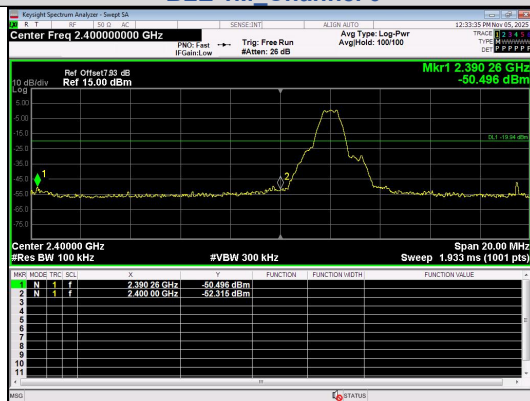
Test Graphs



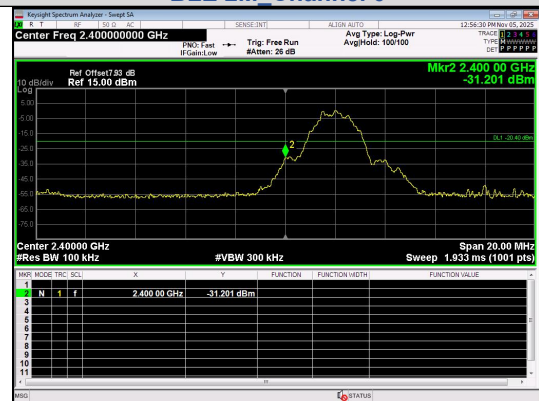
In-Band Reference Level
BLE 1M_Channel 0



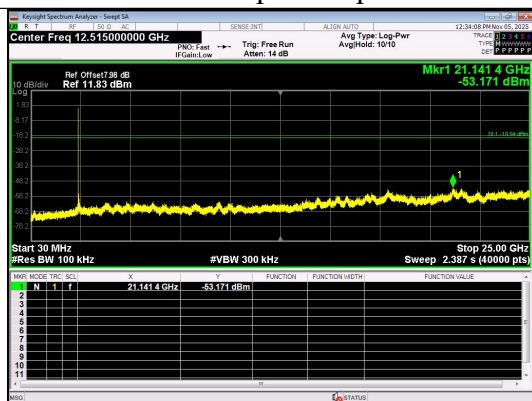
In-Band Reference Level
BLE 2M_Channel 0



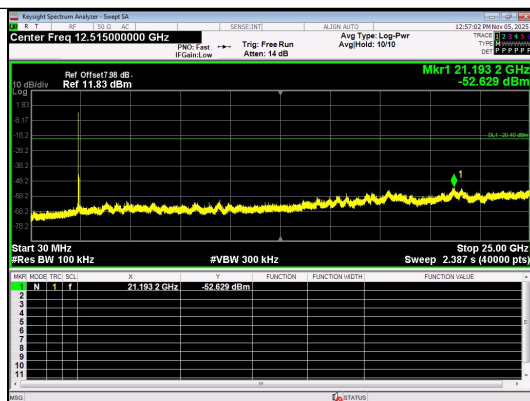
Out Of Band Emission
BLE 1M_Channel 0



Out Of Band Emission
BLE 2M_Channel 0



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



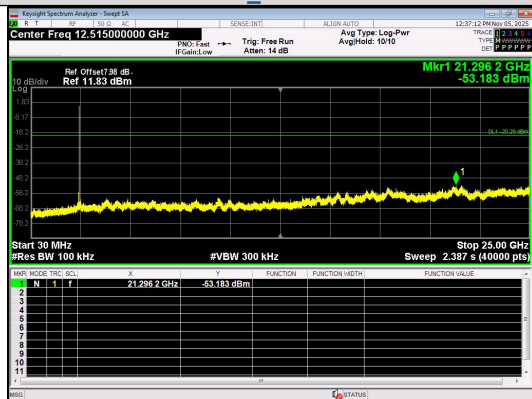
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



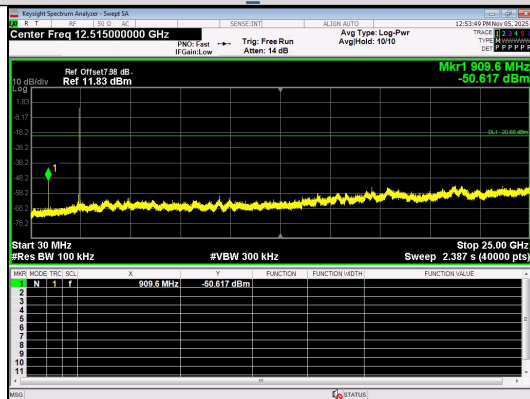
In-Band Reference Level
BLE 1M_Channel 19



In-Band Reference Level
BLE 2M_Channel 19



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39



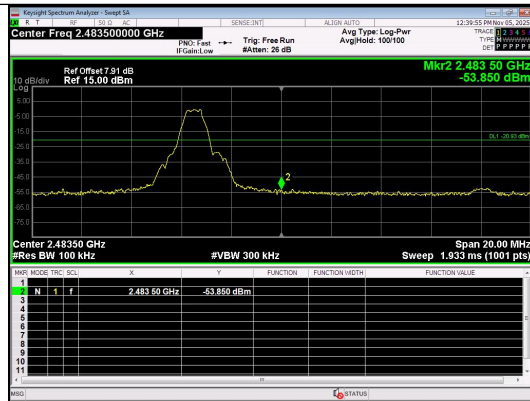
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39



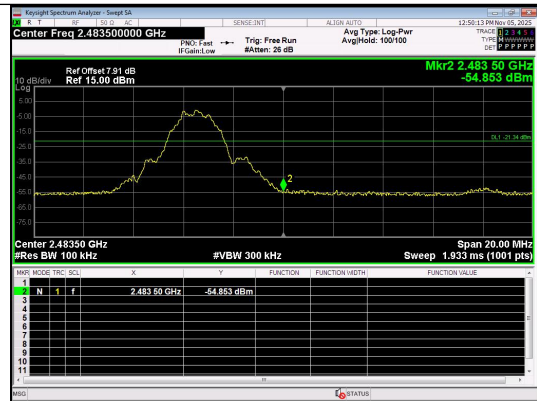
In-Band Reference Level
BLE 1M_Channel 39



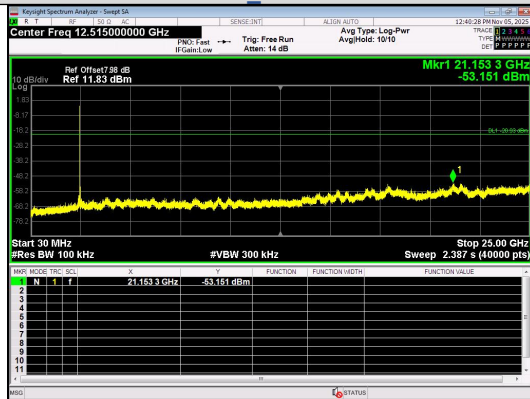
In-Band Reference Level
BLE 2M_Channel 39



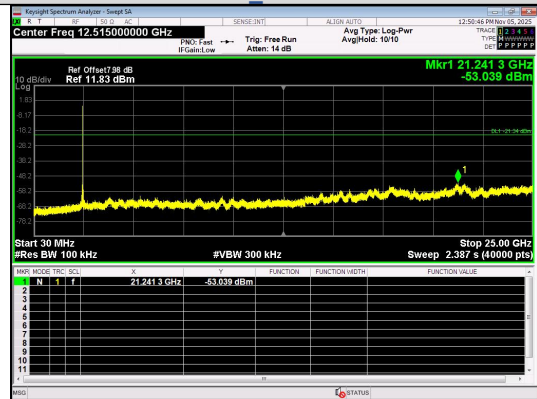
**Out Of Band Emission
BLE 1M_Channel 39**



**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**