



Keyway Testing Technology (Guangdong) Co., Ltd
21 Floor,Building 6,Dongyi Intelligent Equipment New Energy Vehicle Park,N.30
of Tangxia District,Dongshen Road,Tangxia Town,Dongguan City,Guangdong,China

E.U.T:	Stage One
Model Number:	S1
Trade Name:	SKAA
Sample Number:	250106084
Date of Receipt:	Feb. 28, 2025
Date of Test:	Feb. 28, 2025 ~ Aug. 29, 2025
FCC ID:	2BRDB-S1
IC:	34372-S1

A.1 CONDUCTED OUTPUT POWER

Test Result

Modulation	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
FSK	0	7.41	5.51	None	20.97	PASS
	24	7.89	6.16	None		PASS
	48	7.18	5.23	None		PASS

Modulation	Channel	Peak Output Power (dBm)	Peak Power Limit (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Max. Avg. Power (dBm)	Result
FSK	0	7.41	20.97	2.30	9.71	36.02	None	PASS
	24	7.89	20.97	2.30	10.19	36.02	None	PASS
	48	7.18	20.97	2.30	9.48	36.02	None	PASS

Note: ISED EIRP (dBm) =Peak Output Power (dBm) +Antenna Gain (dBi)

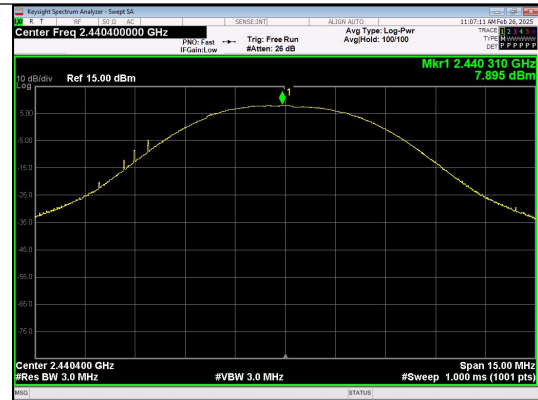


Keyway Testing Technology (Guangdong) Co., Ltd
21 Floor,Building 6,Dongyi Intelligent Equipment New Energy Vehicle Park,N.30
of Tangxia District,Dongshen Road,Tangxia Town,Dongguan City,Guangdong,China

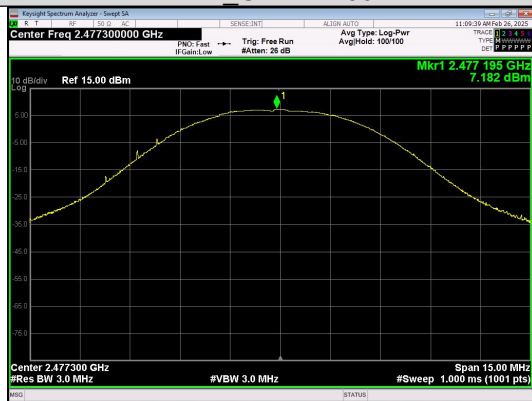
Test Graphs



Peak Output Power
FSK_Channel 00



Peak Output Power
FSK_Channel 24



Peak Output Power
FSK_Channel 48



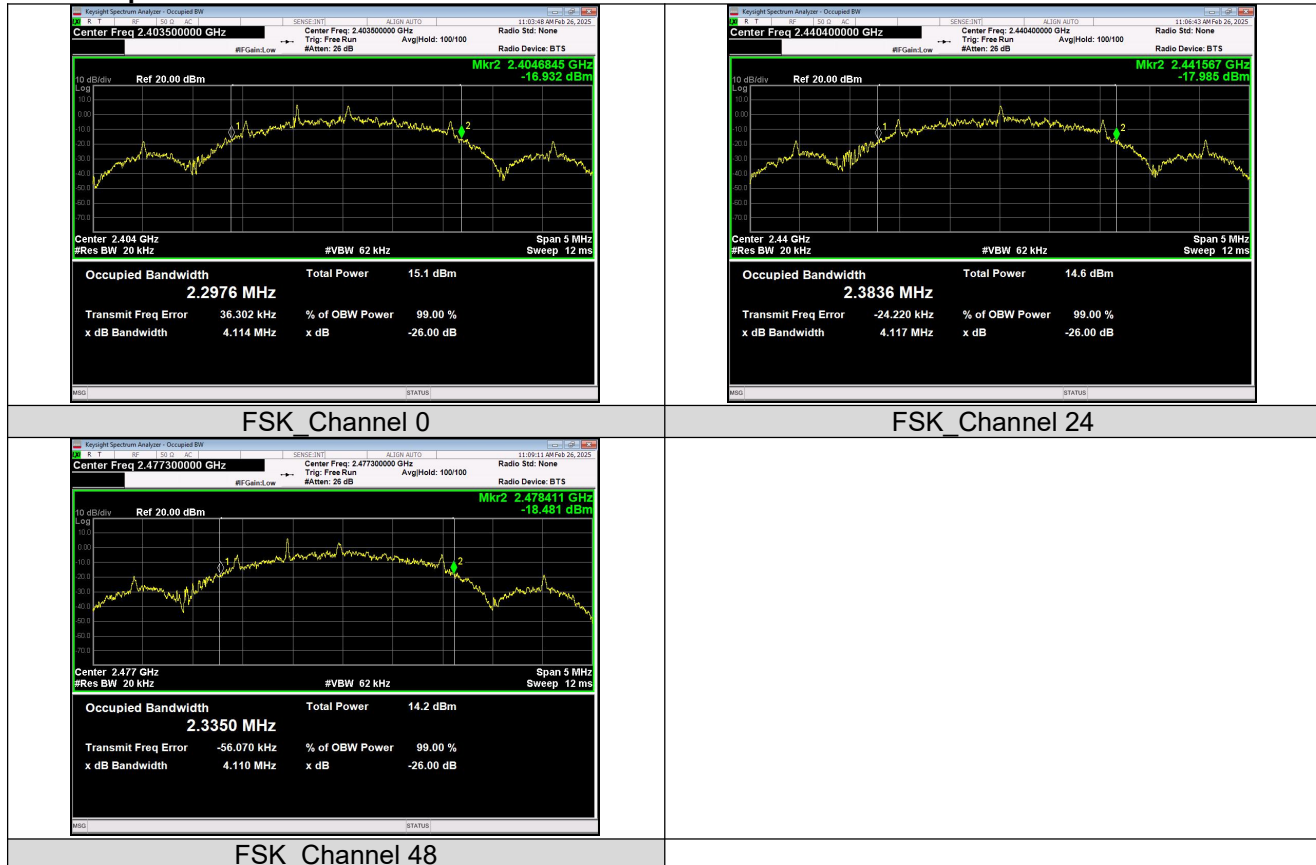
Keyway Testing Technology (Guangdong) Co., Ltd
21 Floor,Building 6,Dongyi Intelligent Equipment New Energy Vehicle Park,N.30
of Tangxia District,Dongshen Road,Tangxia Town,Dongguan City,Guangdong,China

A.2 99% BANDWIDTH

Test Result

Modulation	Channel	99% BW (MHz)
FSK	00	2.1601
	24	2.1890
	48	2.2085

Test Graphs





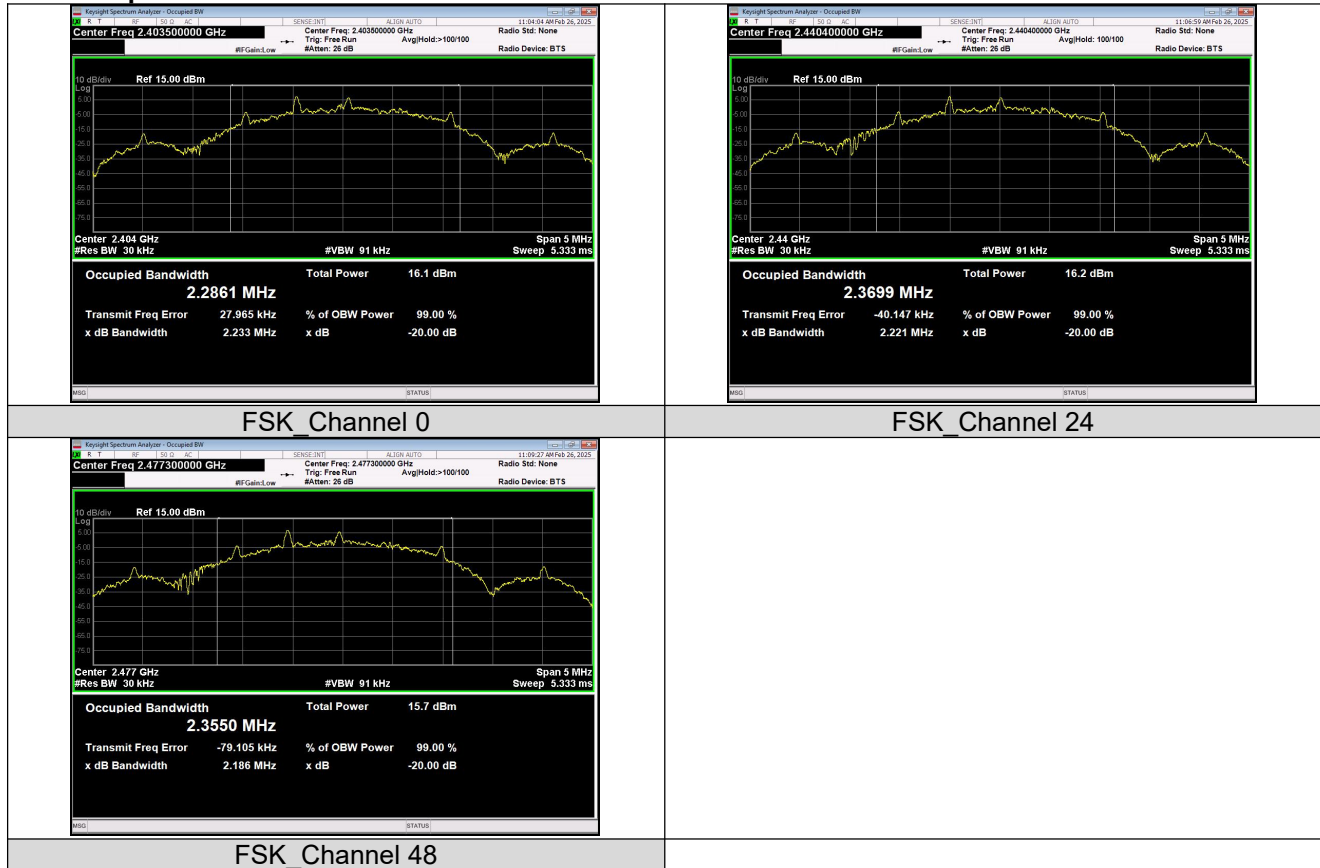
Keyway Testing Technology (Guangdong) Co., Ltd
21 Floor,Building 6,Dongyi Intelligent Equipment New Energy Vehicle Park,N.30
of Tangxia District,Dongshen Road,Tangxia Town,Dongguan City,Guangdong,China

A.3 20DB BANDWIDTH

Test Result

Modulation	Channel	20 dB Bandwidth (MHz)
FSK	00	2.233
	24	2.221
	48	2.186

Test Graphs





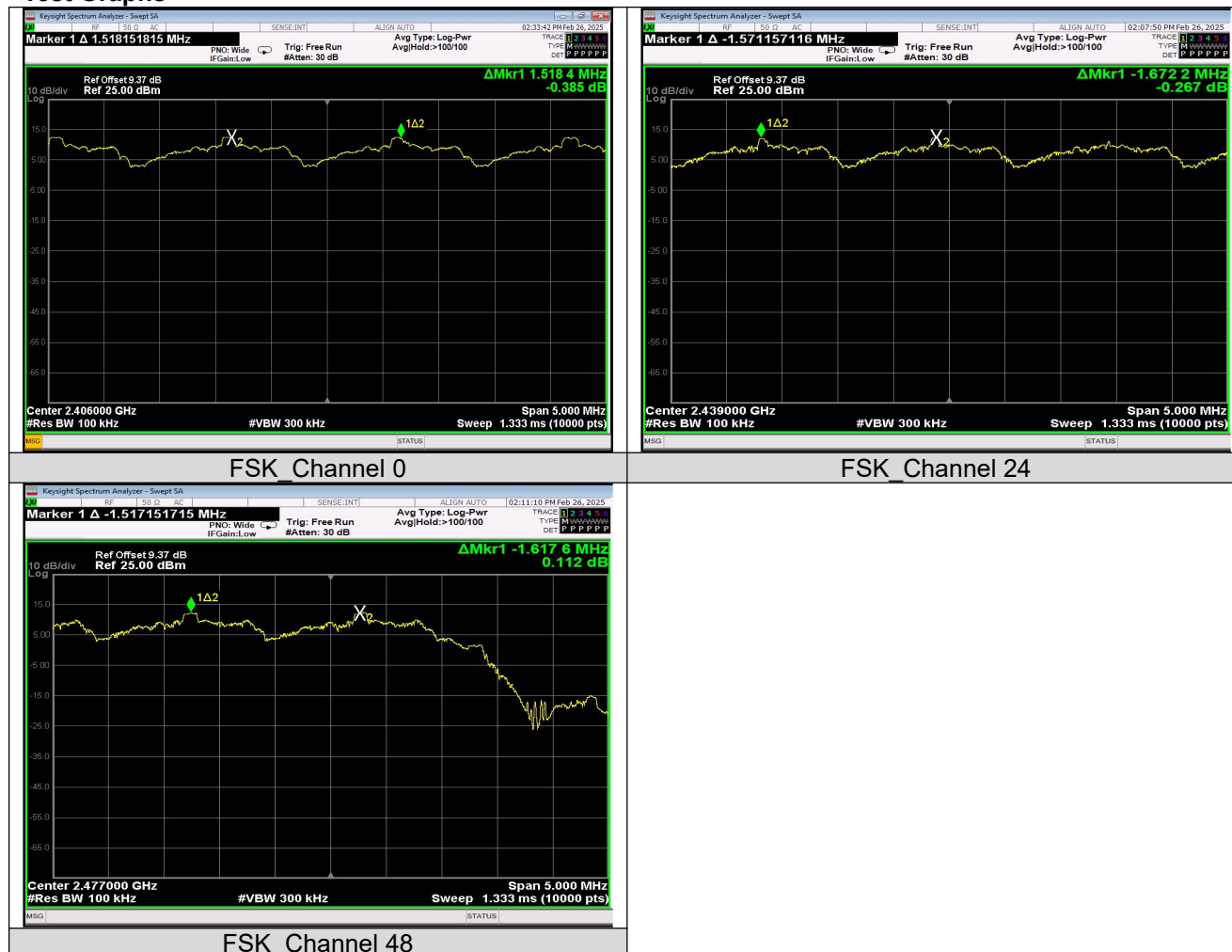
Keyway Testing Technology (Guangdong) Co., Ltd
21 Floor,Building 6,Dongyi Intelligent Equipment New Energy Vehicle Park,N.30
of Tangxia District,Dongshen Road,Tangxia Town,Dongguan City,Guangdong,China

A.4 CARRIER FREQUENCIES SEPARATION

Test Result

Modulation	Channel	Separation (MHz)	Limit(MHz)	Result
FSK	0	1.5184	1.501	PASS
FSK	24	1.6722	1.489	PASS
FSK	48	1.6176	1.459	PASS

Test Graphs





Keyway Testing Technology (Guangdong) Co., Ltd
21 Floor,Building 6,Dongyi Intelligent Equipment New Energy Vehicle Park,N.30
of Tangxia District,Dongshen Road,Tangxia Town,Dongguan City,Guangdong,China

A.5 100KHZ BANDWIDTH OF FREQUENCY BAND EDGE REQUIREMENT

Test Result

Non-Hopping

Modulation	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
FSK	0	2398.45	-35.938	-12.55	-23.388	PASS
		2400.00	-42.115	-12.55	-29.565	PASS
		4808.10	-44.805	-12.55	-32.255	PASS
	24	21123.9	-48.849	-11.99	-36.859	PASS
		2483.50	-43.444	-12.64	-30.804	PASS
		21156.4	-48.740	-12.64	-36.100	PASS

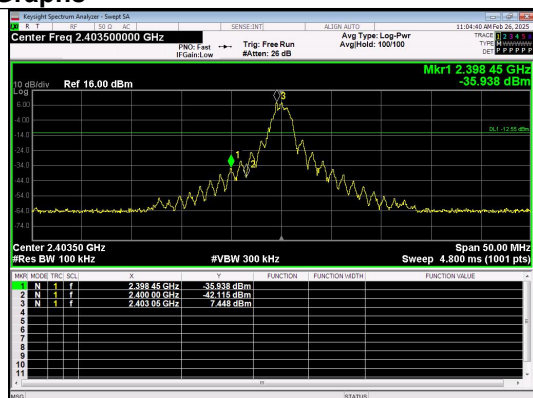
Note: input compensation coefficient (dB)= Cable Loss (dB)

Hopping

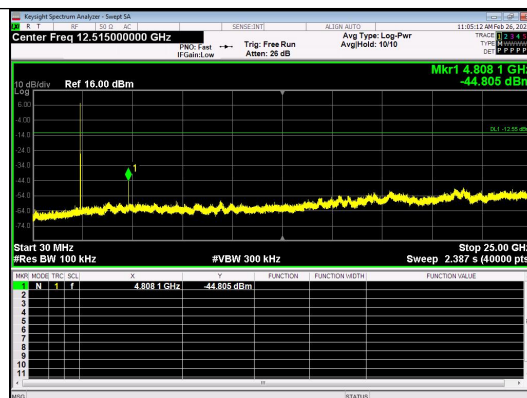
Modulation	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
FSK	Hopping	2400.00	-35.732	-12.03	-23.702	PASS
		2483.50	-44.391	-12.57	-31.821	PASS

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

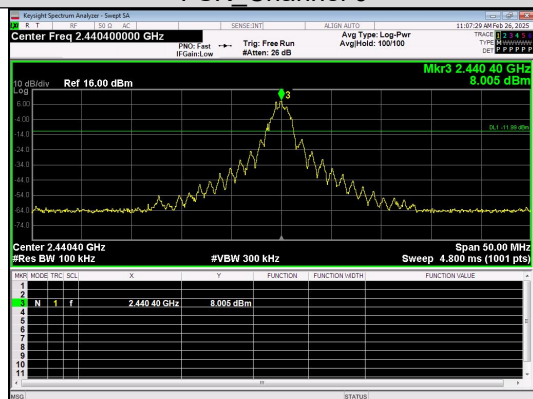
Test Graphs



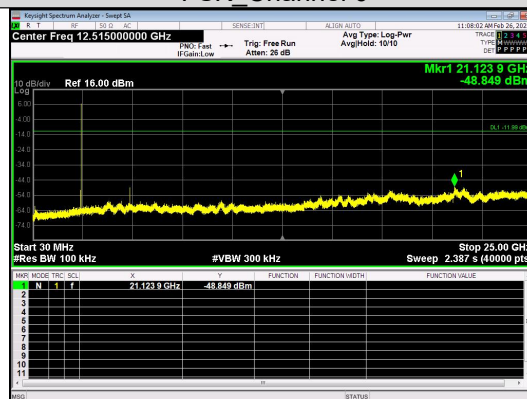
Out Of Band Emission
FSK_Channel 0



Spurious Emission
FSK_Channel 0



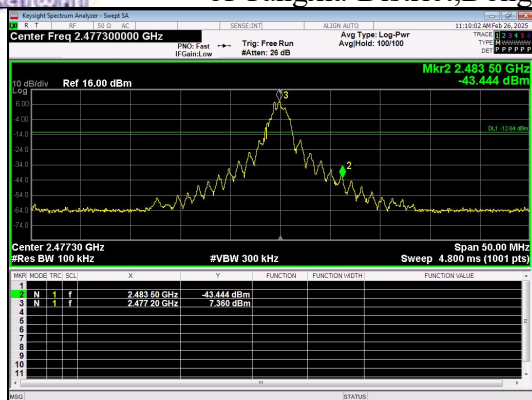
Out Of Band Emission
FSK_Channel 24



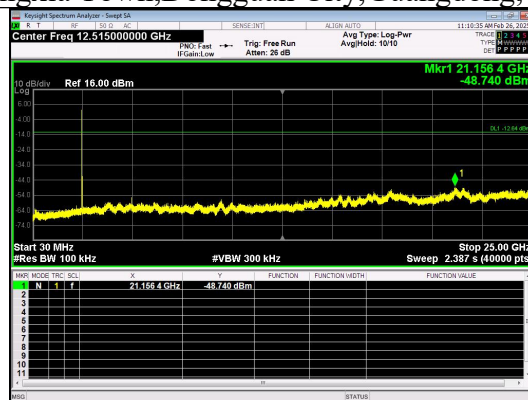
Spurious Emissions
FSK_Channel 24



Keyway Testing Technology (Guangdong) Co., Ltd
21 Floor,Building 6,Dongyi Intelligent Equipment New Energy Vehicle Park,N.30
of Tangxia District,Dongshen Road,Tangxia Town,Dongguan City,Guangdong,China



Out Of Band Emission
FSK_Channel 48



Spurious Emission
FSK_Channel 48



Out Of Band Emission(Left)
FSK_Channel Hopping



Out Of Band Emission(Right)
FSK_Channel Hopping

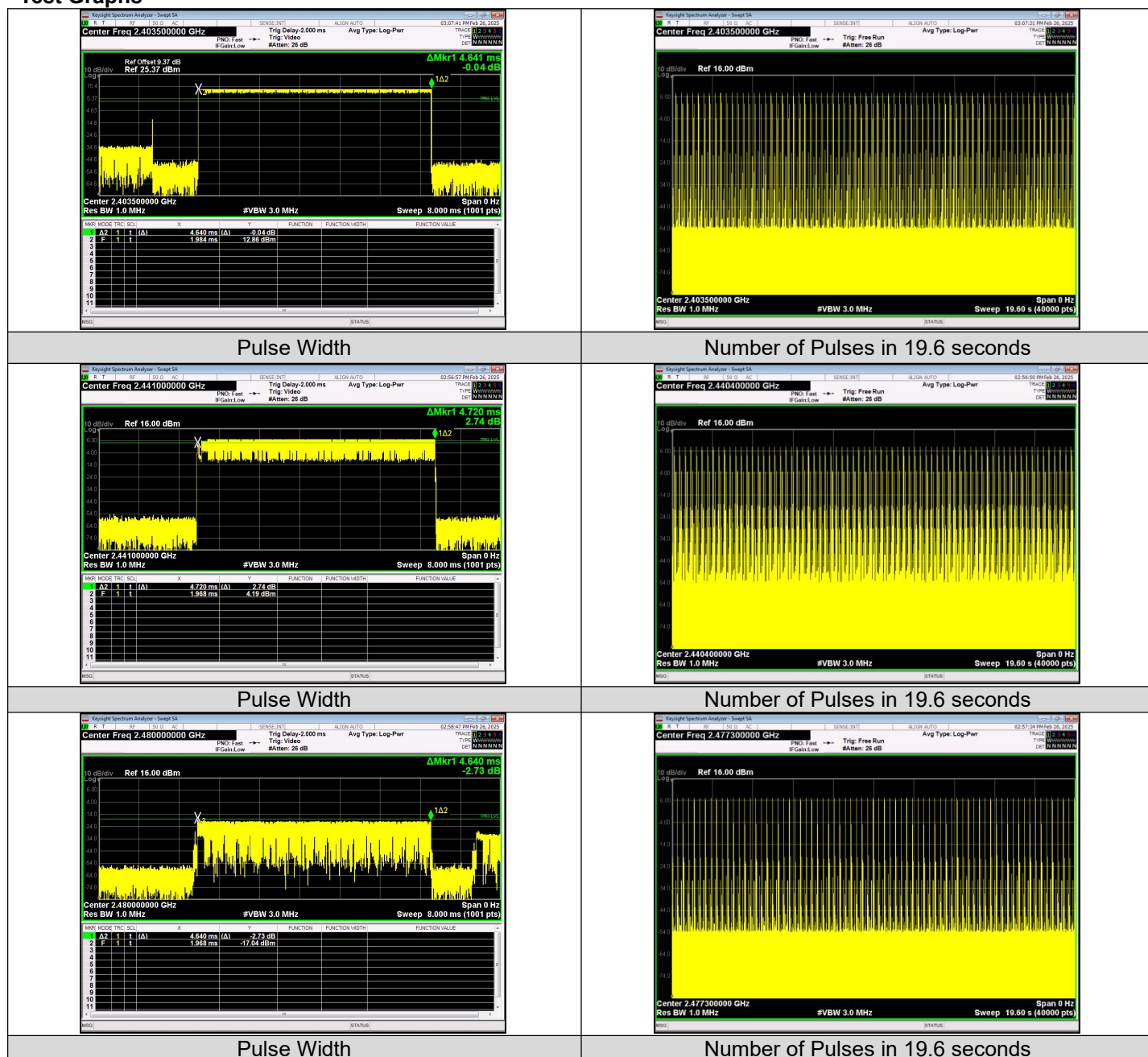


A.6 DWELL TIME

Test Result

Modulation	Channel	Pulse Width (ms)	Number of Pulses in 19.6 seconds	Dwell Time (ms)	Limit (ms)	Result
FSK	CH0 (2403.5MHz)	4.641	72	334.15	< 400	PASS
	CH24 (2440.4MHz)	4.720	84	396.48		PASS
	CH48 (2477.3MHz)	4.640	72	334.08		PASS

Test Graphs





Keyway Testing Technology (Guangdong) Co., Ltd
21 Floor,Building 6,Dongyi Intelligent Equipment New Energy Vehicle Park,N.30
of Tangxia District,Dongshen Road,Tangxia Town,Dongguan City,Guangdong,China

A.7 NUMBER OF HOPPING CHANNEL

Test Result

Mode	Frequency (MHz)	Num of Hopping Frequencies		Verdict
		ANT1	Limit	
FSK	HOPP	49	≥ 15	Pass

Test Graphs

