

JAPAN MIC

Radio Test Report

Applicant: Lantronix, Inc.
48 Discovery, Suite 250 Irvine, CA 92618 USA

Manufacturer: Lantronix, Inc.
48 Discovery, Suite 250 Irvine, CA 92618 USA

Product Name: FOX5 Series

Brand Name: LANTRONIX

Model No.: FOX5-4G-C1B

Report Number: TERF2604001228ER

Place of Testing SGS Taiwan Ltd. Central RF Lab
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803.

Test Result PASS

Classification of Specified Radio Equipment Article 2 Clause 1 Item 19

Date of EUT Received: April 8, 2026

Date of Test: April 8, 2026~July 17, 2026

Issue Date: July 22, 2026



Approved By: _____

Marcus Tseng**We hereby declare that:**

The data presented with this application to be true and correct; and that our testing equipment is regularly serviced and properly calibrated; and We agree to maintain records of data for a minimum of ten (10) years in our laboratory for immediate presentation upon request by the Certification Body.

Measurement was conducted by the following test method:

the test method of Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Annex 43 of Article 88, Paragraph 1 or the test method more than equivalent.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2604001228ER	00	Original	July 22, 2026	Karen Huang	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.

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SGS Taiwan Ltd.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	FOX5 Series
Brand Name:	LANTRONIX
Model No.:	FOX5-4G-C1B
Hardware Version:	2.3
Firmware Version:	avl_5.0.0_rc6
Power Supply:	12 Vdc

1.2 RF Specification

Type, frequency of
transmittable radio wave and
rated output

Bluetooth GFSK include AFH	F1D 2441MHz 0.000038 ~ 0.000144W/MHz
Bluetooth $\pi/4$ -DQPSK include AFH	G1D 2441MHz 0.000036 ~ 0.00014W/MHz
Bluetooth 8DPSK include AFH	G1D 2441MHz 0.000035 ~ 0.000132W/MHz

1.3 Antenna Designation

Antenna Type	Polarization (H or V)	Peak Gain (dBi)
PIFA	H+V	0.1

Note:

The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

1.4 Assemble

The shielding case is directly soldered to the PCB board. The shielding case will be destroyed when trying to open.

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2 DESCRIPTION OF TEST

2.1 Test Conditions

				Limit	Result	Note	
Environment of Test Room	Temperature	°C	22~23		$5 \leq x \leq 35$	PASS	
	Humidity	%	48~59		$45 \leq x \leq 85$	PASS	
Peak Antenna Gain		dBi	0.1		-----	-----	
Number of hopping channel		-----	79	20	-----	-----	
Declaration Output Power		mW/MHz	0.038	0.144	≤ 3 mW/MHz	PASS	
Declaration Output Power		dBm/MHz	-14.20	-8.42	≤ 4.77 dBm/MHz	PASS	
E.I.R.P.		dBm/MHz	-14.10	-8.32	≤ 6.91 dBm/MHz	PASS	
Tested Circuit Insertion Loss		dB	11.00	11.00	-----	-----	
Input Voltage		VDC	12.00		-----	-----	
Packet Type (Mode)		-----	DH5		-----	-----	
Frequency equal to the transmission rate of the modulation signal		MHz	1		-----	-----	
Test Category		2.4GHz Band Wideband Low-Power Data Communication System (Bluetooth GFSK include AFH)					
The reason why test are performed only rated voltage							
When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).							

				Limit	Result	Note	
Environment of Test Room	Temperature	°C	22~23		$5 \leq x \leq 35$	PASS	
	Humidity	%	48~59		$45 \leq x \leq 85$	PASS	
Peak Antenna Gain		dBi	0.1		-----	-----	
Number of hopping channel		-----	79	20	-----	-----	
Declaration Output Power		mW/MHz	0.036	0.140	≤ 3 mW/MHz	PASS	
Declaration Output Power		dBm/MHz	-14.44	-8.54	≤ 4.77 dBm/MHz	PASS	
E.I.R.P.		dBm/MHz	-14.34	-8.44	≤ 6.91 dBm/MHz	PASS	
Tested Circuit Insertion Loss		dB	11.00	11.00	-----	-----	
Input Voltage		VDC	12.00		-----	-----	
Packet Type (Mode)		-----	2DH5		-----	-----	
Frequency equal to the transmission rate of the modulation signal		MHz	1		-----	-----	
Test Category		2.4GHz Band Wideband Low-Power Data Communication System (Bluetooth $\pi/4$ -DQPSK include AFH)					
The reason why test are performed only rated voltage							
When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).							

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				Limit	Result	Note	
Environment of Test Room	Temperature	°C	22~23		$5 \leq x \leq 35$	PASS	
	Humidity	%	48~59		$45 \leq x \leq 85$	PASS	
Peak Antenna Gain		dBi	0.1		-----	-----	
Number of hopping channel		-----	79	20	-----	-----	
Declaration Output Power		mW/MHz	0.035	0.132	≤ 3 mW/MHz	PASS	
Declaration Output Power		dBm/MHz	-14.56	-8.79	≤ 4.77 dBm/MHz	PASS	
E.I.R.P.		dBm/MHz	-14.46	-8.69	≤ 6.91 dBm/MHz	PASS	
Tested Circuit Insertion Loss		dB	11.00	11.00	-----	-----	
Input Voltage		VDC	12.00		-----	-----	
Packet Type (Mode)		-----	3DH5		-----	-----	
Frequency equal to the transmission rate of the modulation signal		MHz	1		-----	-----	
Test Category		2.4GHz Band Wideband Low-Power Data Communication System (Bluetooth 8DPSK include AFH)					
The reason why test are performed only rated voltage							
When the input voltage to receiver RF circuit varies below ± 1% as the input voltage from the external power supply to the receiver varies ± 10% (excluding power supply).							

2.2 Voltage Variation

Voltage Fluctuation Test	Normal Voltage	High Voltage + 10% of Normal Voltage	Low Voltage - 10% of Normal Voltage
Input DC Power	12	13.2	10.8
Output DC Power	3	3	3
Voltage Variation (%)	0	0	0
Note: Voltage Variation (%) = (Output High or Low Voltage - Output Normal Voltage)/Output Normal Voltage X 100			
During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/- 1%. Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.			

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3 ABOUT UNCERTAINTY OF MEASURED VALUE

- *In this test, the influence of an error or uncertainty may be done according to the following factors.
- Bias of a measurement equipment, Change by aging, Attrition, Noise
 - Skill and capability of an inspector
 - Environment (Temperature, Humidity)
 - Dispersion in a EUT (Equipment Under Test)
 - Uncertainty of calibration of a measurement equipment

Therefore, Synthetic uncertainty is calculated using "k=2" of coverage factor, and about 95% of confidence level shall be obtained.

In consideration of the above, it judged as follows.

JUDGE	Measured value and Standard limit value	
PASS	Case1	Standard limit value +uncertainty -uncertainty Measured value *Even if it takes uncertainty into consideration, a standard limit value is fulfilled.
	Case2	*Although measured value is in a standard limit value, a limit value won't be fulfilled if uncertainty is taken into consideration.
FAIL	Case3	*Although measured value exceeds a standard limit value, a limit value will be fulfilled if uncertainty is taken into consideration.
	Case4	*Even if it takes uncertainty into consideration, a standard limit value isn't fulfilled.

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4 MEASUREMENT EQUIPMENT LIST

Conducted Emission Test Site: Conducted 2						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	Calibration Authority	Cal. Method
Attenuator	Mini-Circuits	BW-S20W5	2	12/07/2025	SGS	C)
DC Block	Mini-Circuits	BLK-18-S+	10	12/07/2025	SGS	C)
DC Power Supply	Gwinstek	SPD-3606	GEW923151	05/13/2026	ETC	C)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/23/2026	ETC	C)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071541	07/17/2025	ETC	C)
Power Meter	Anritsu	ML2496A	1242004	10/23/2025	ETC	C)
Power Sensor	Anritsu	MA2411B	1207365	11/06/2025	ETC	C)
Power Sensor	Anritsu	MA2411B	1207368	10/23/2025	ETC	C)
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N/A	N/A

Note 1: The validity of measurement equipment is one year from the first day of the following month of the calibration date.

(e.g. If the calibration date is December 15th, 2014, measurement equipment can be used from December 15th, 2014 to December 31st, 2015.)

Note 2: Calibration Method

- a): Calibration conducted by the National Institute of Information and Communications Technology(NICT)(hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)
- b): Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
- c) : Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph(1)
- d) : Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)

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5 TEST RESULTS

DH5

Measurement Frequency		MHz	2402	2441		2480	Limit	Result	Note
Channel Number		Ch.	0	39		78	-----	-----	
Number of hopping channel		-----	-	79	20	-	-----	-----	
Reading Frequency		MHz	2402	2441.004		2480.008	-----	-----	
Frequency Tolerance		ppm	0	1.63867		3.225806	-50 ≤ x ≤ +50	PASS	
Occupied Bandwidth		MHz	-	78.134	19.579	-	≤ 83.5 MHz	PASS	
Spread Bandwidth		MHz	-	70.494	18.627	-	≥ 0.5 MHz	PASS	
Transmission Output Power	Calculated result	mW/MHz	-	0.038	0.144	-	≤ 3 mW/MHz	-----	
	Tolerance	%	-	0.00	0.00	-	≤ 20	PASS	
	Measured value	dBm	-	4.293		-	-----	-----	
	On Time	msec	-	2.890		-	-----	-----	
	Dwell Time	msec	-	308.265		-	≤ 400 msec	PASS	
	Burst Ratio	%	-	77.1		-	-----	-----	
Unwanted Emission Strength	Under 2387MHz	μW/MHz	-	0.042560		-	≤ 2.5uW/MHz	PASS	
		MHz	-	2384.20		-	-----	-----	
	2387-2400MHz	μW/MHz	-	0.192309		-	≤ 25uW/MHz	PASS	
		MHz	-	2400.00		-	-----	-----	
	2483.5-2496.5MHz	μW/MHz	-	0.067298		-	≤ 25uW/MHz	PASS	
		MHz	-	2490.03		-	-----	-----	
	Over 2496.5MHz	μW/MHz	-	0.029648		-	≤ 2.5uW/MHz	PASS	
		MHz	-	3796.50		-	-----	-----	
Secondarily Emitted Radio Wave Strength (RX Spurious)	Under 1GHz	nW	-	0.013900		-	≤ 4 nW	PASS	
		MHz	-	736.00		-	-----	-----	
	Over 1GHz	nW	-	0.243781		-	≤ 20 nW	PASS	
		MHz	-	2412.00		-	-----	-----	
	Tested Circuit Insertion Loss for RX Spurious								1
Spread Factor		-----	-	70.5	18.63	-	≥ 5	PASS	
Dwell Time		mSec	-	274.64		-	≤ 400 msec	PASS	
Interference Prevention Function		-----	-	good		-	-----	PASS	

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2DH5

Measurement Frequency		MHz	2402	2441		2480	Limit	Result	Note
Channel Number		Ch.	0	39		78	----	----	
Number of hopping channel		----	-	79	20	-	----	----	
Reading Frequency		MHz	2401.988	2440.984		2479.99	----	----	
Frequency Tolerance		ppm	-4.995837	-6.55469		-4.032258	-50≤x≤+50	PASS	
Occupied Bandwidth		MHz	-	78.321	20.958	-	≤83.5 MHz	PASS	
Spread Bandwidth		MHz	-	70.865	18.148	-	≥0.5 MHz	PASS	
Transmission Output Power	Calculated result	mW/MHz	-	0.036	0.140	-	≤3 mW/MHz	----	
	Tolerance	%	-	0.00	0.00	-	≤20	PASS	
	Measured value	dBm	-	4.044		-	----	----	
	On Time	msec	-	2.890		-	----	----	
	Dwell Time	msec	-	308.265		-	≤400 msec	PASS	
	Burst Ratio	%	-	77.1		-	----	----	
Unwanted Emission Strength	Under 2387MHz	μW/MHz	-	0.012618		-	≤2.5uW/MHz	PASS	
		MHz	-	1993.30		-	----	----	
	2387-2400MHz	μW/MHz	-	1.815516		-	≤25uW/MHz	PASS	
		MHz	-	2400.00		-	----	----	
	2483.5-2496.5MHz	μW/MHz	-	0.119124		-	≤25uW/MHz	PASS	
		MHz	-	2484.87		-	----	----	
	Over 2496.5MHz	μW/MHz	-	0.019999		-	≤2.5uW/MHz	PASS	
		MHz	-	3773.50		-	----	----	
Secondarily Emitted Radio Wave Strength (RX Spurious)	Under 1GHz	nW	-	0.056494		-	≤4 nW	PASS	
		MHz	-	736.60		-	----	----	
	Over 1GHz	nW	-	0.544503		-	≤20 nW	PASS	
		MHz	-	1764.00		-	----	----	
	Tested Circuit Insertion Loss for RX Spurious								1
Spread Factor		----	-	70.9	18.15	-	≥5	PASS	
Dwell Time		mSec	-	277.04		-	≤400 msec	PASS	
Interference Prevention Function		----	-	good		-	----	PASS	

3DH5

Measurement Frequency		MHz	2402	2441		2480	Limit	Result	Note
Channel Number		Ch.	0	39		78	-----	-----	
Number of hopping channel		-----	-	79	20	-	-----	-----	
Spread Bandwidth		MHz	-	70.660	18.999	-	≥ 0.5 MHz	PASS	
Transmission Output Power	Calculated result	mW/MHz	-	0.035	0.132	-	≤3 mW/MHz	-----	
	Tolerance	%	-	0.00	0.00	-	≤20	PASS	
	Measured value	dBm	-	3.99		-	-----	-----	
	On Time	msec	-	2.890		-	-----	-----	
	Dwell Time	msec	-	308.265		-	≤400 msec	PASS	
	Burst Ratio	%	-	77.1		-	-----	-----	
Spread Factor		-----	-	70.7	19.00	-	≥5	PASS	
Dwell Time		mSec	-	275.28		-	≤400 msec	PASS	
Interference Prevention Function		-----	-	good		-	-----	PASS	

Note: Since 2DH5 is identified as the power worst-case mode, partial test items for 3DH5 are therefore omitted.

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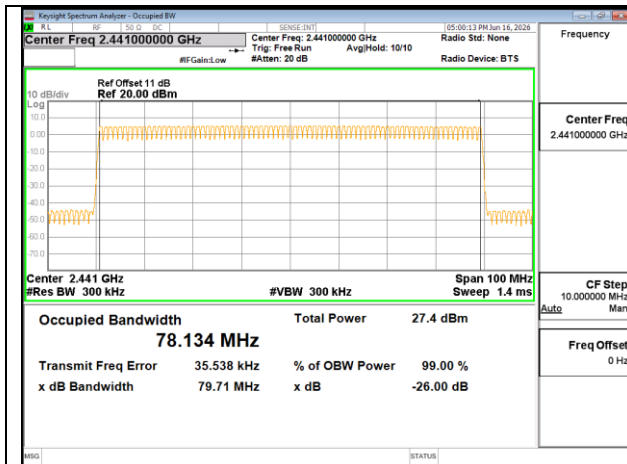
台灣檢驗科技股份有限公司

t (886-2) 2299-3279

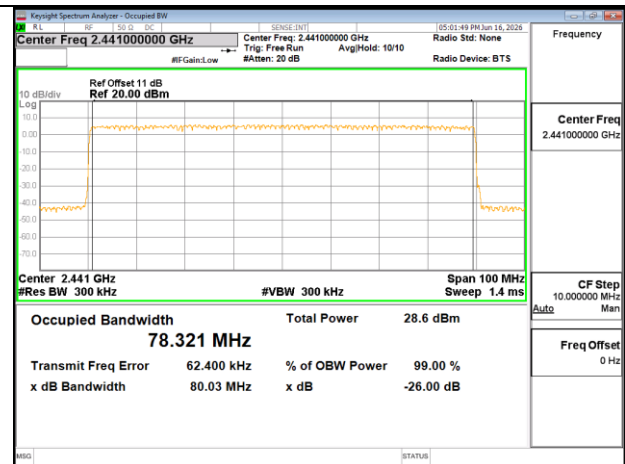
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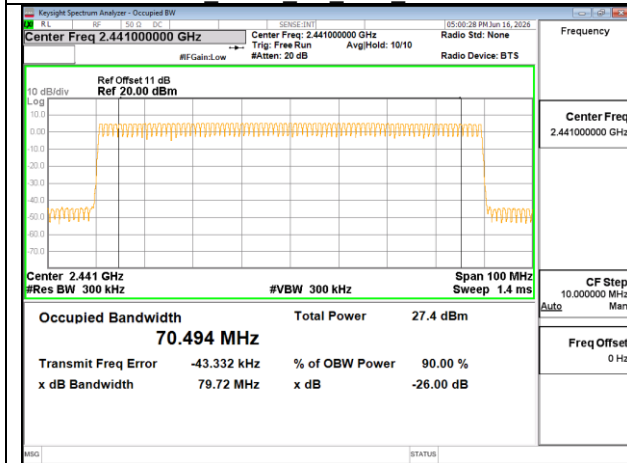
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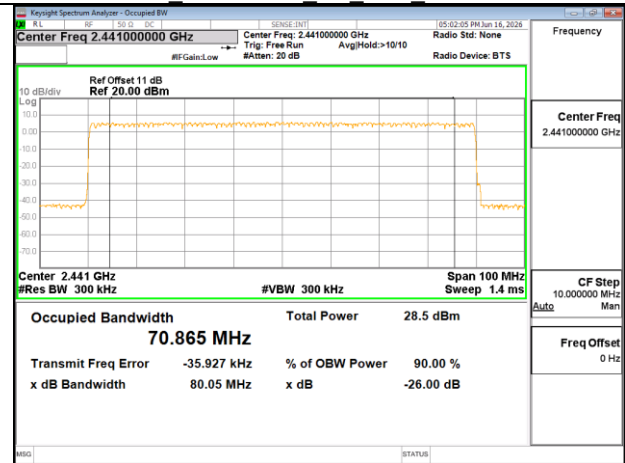
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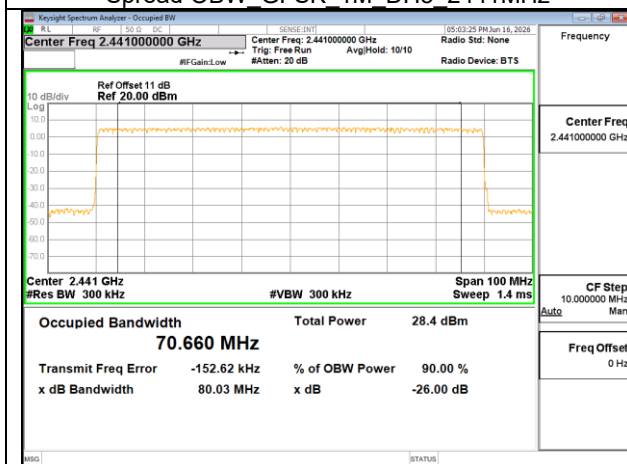
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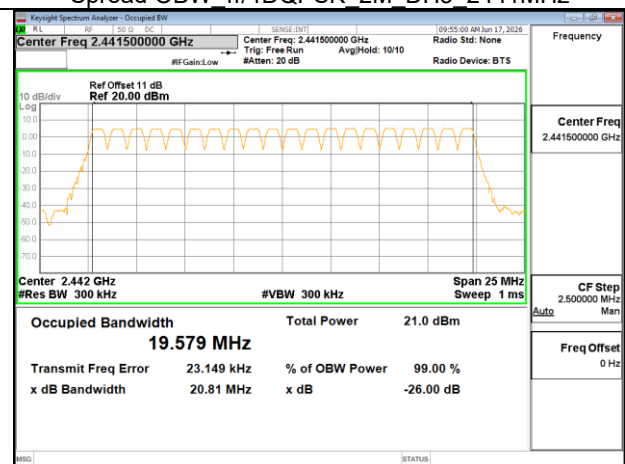
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Spread OBW $\pi/4$ DQPSK 2M DH5 2441MHz



Spread OBW 8DPSK 3M DH5 2441MHz

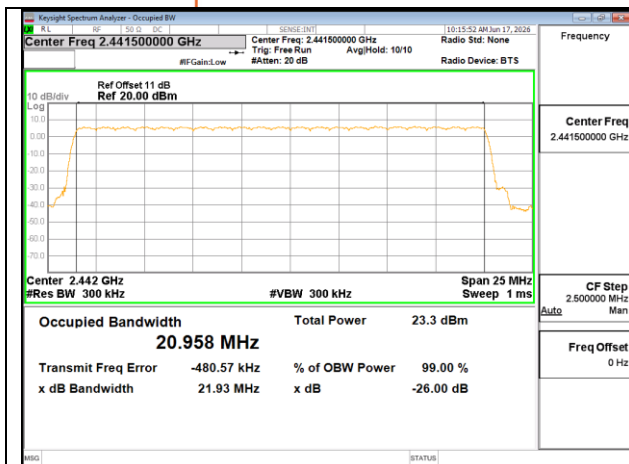
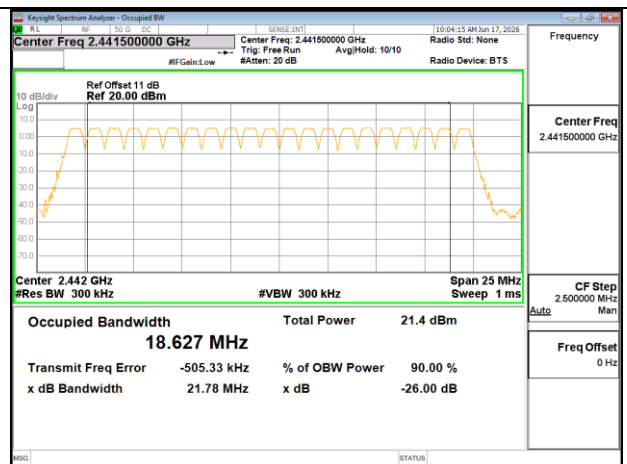


AFH OBW GFSK 1M DH5 2441MHz

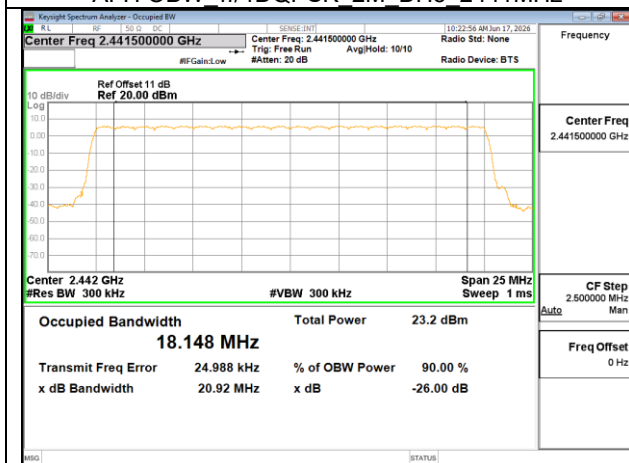
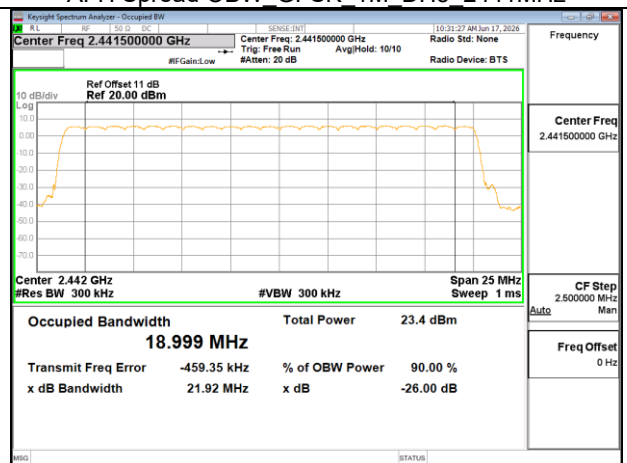
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AFH OBW $\pi/4$ DQPSK 2M DH5 2441MHz

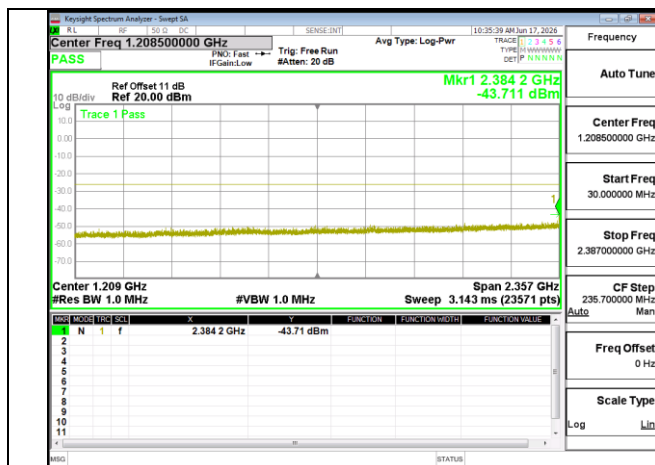
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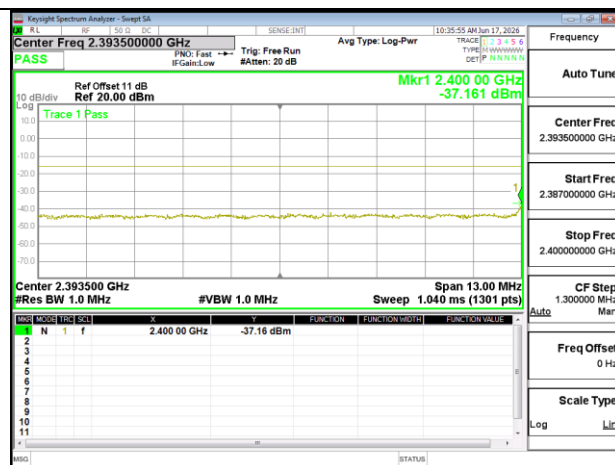
AFH Spread OBW 8DPSK 3M DH5 2441MHz

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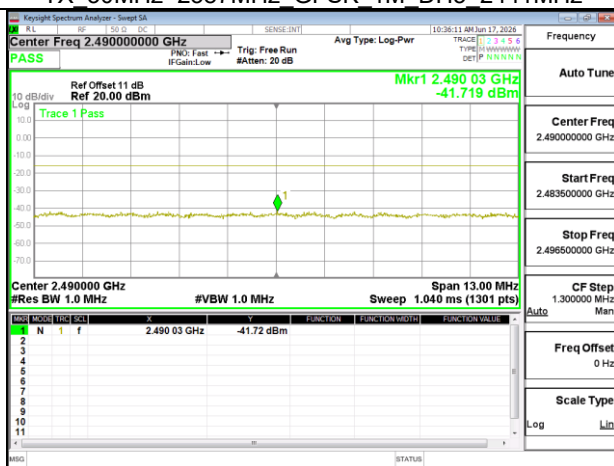
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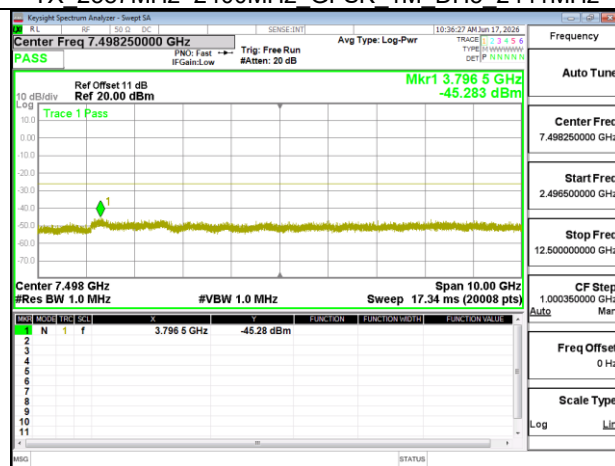
TX 30MHz~2387MHz GFSK 1M DH5 2441MHz



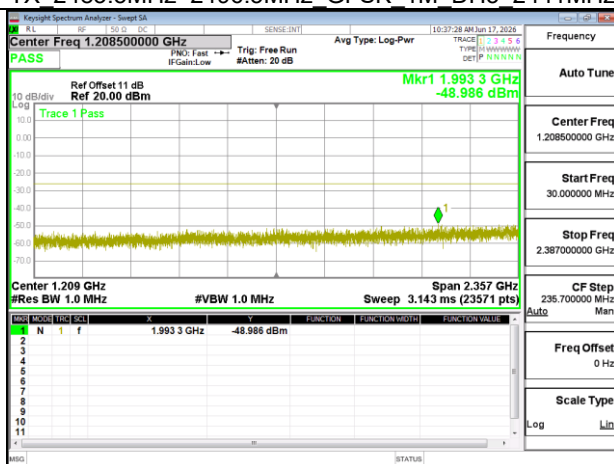
TX 2387MHz~2400MHz GFSK 1M DH5 2441MHz



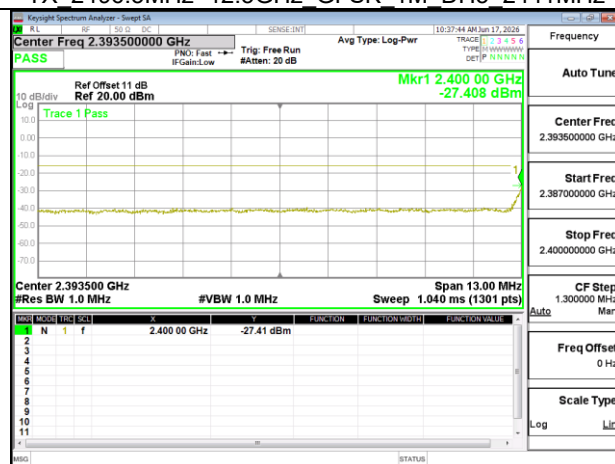
TX 2483.5MHz~2496.5MHz GFSK 1M DH5 2441MHz



TX 2496.5MHz~12.5GHz GFSK 1M DH5 2441MHz



TX 30MHz~2387MHz $\pi/4$ DQPSK 2M DH5 2441MHz

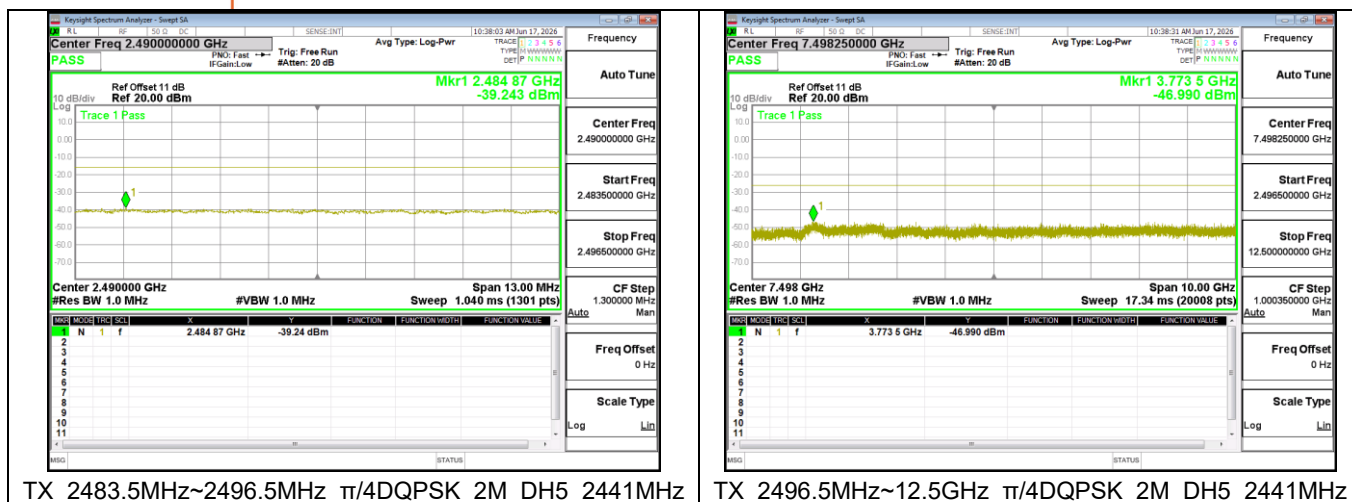


TX 2387MHz~2400MHz $\pi/4$ DQPSK 2M DH5 2441MHz

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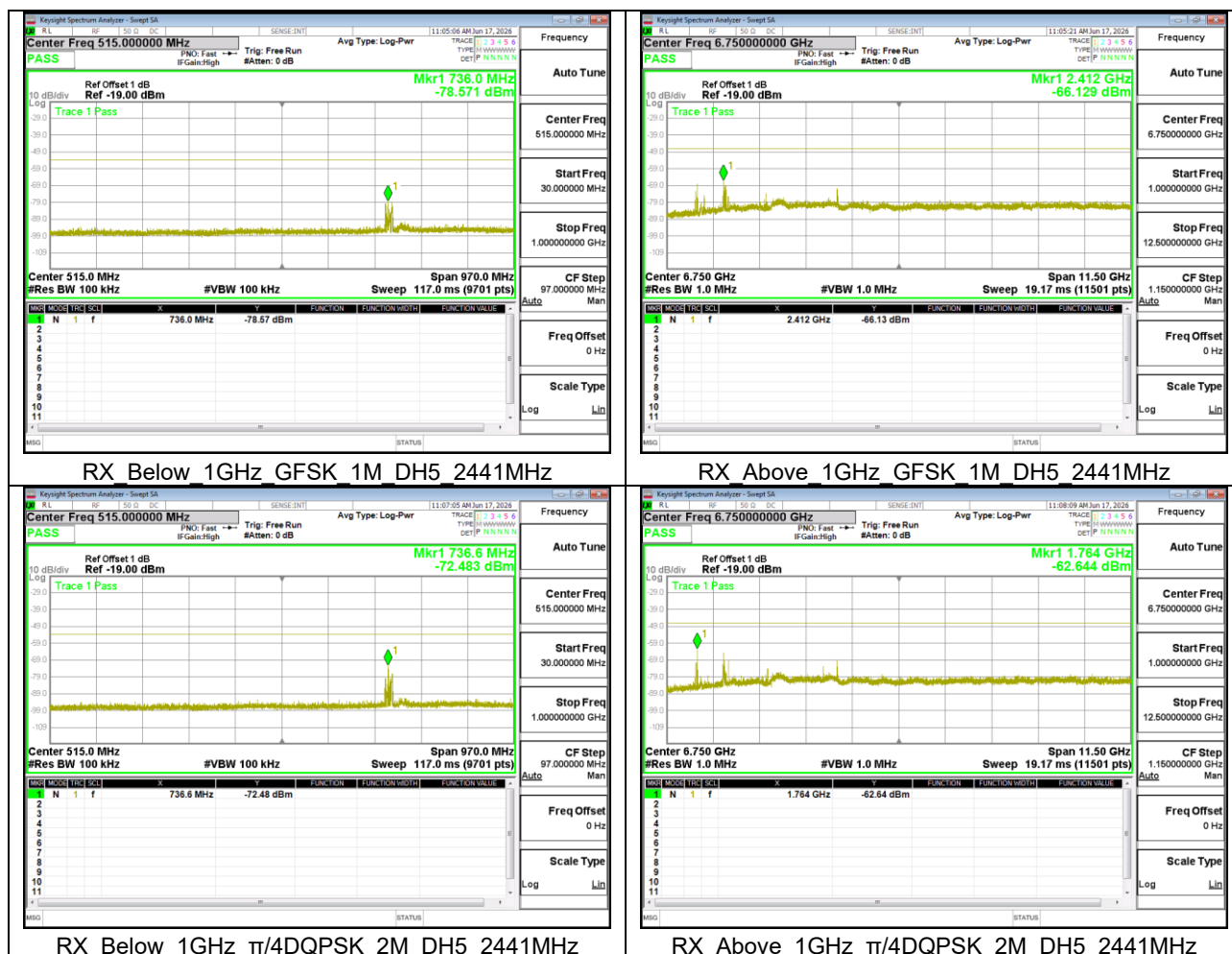
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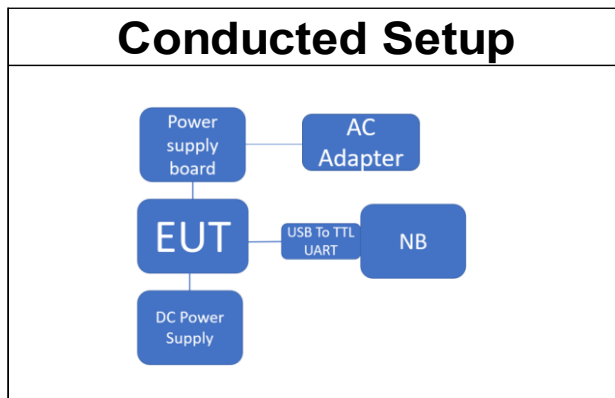


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6 TEST SETUP

6.1 Setup Diagram



~ End of Report ~

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