

FCC Test Report

Test Report
On Behalf of
shenzhenshiyunfanhaojingkejiyouxiangongsi
For

LED Display

Model No.: P6, P0.9, P1.25, P1.56, P1.86, P1.875, P1.923, P2.0, P2.5, P2.604, P2.976, P3.0, P3.076, P3.33, P3.84, P3.91, P4, P4.81, P5, P6, P6.67, P7.62, P8, P10, P12, P16, P20, P25 FCC ID: 2BQJ3-P6

Prepared For: shenzhenshiyunfanhaojingkejiyouxiangongsi

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Date of Test: Jun. 19, 2025 ~ Jun. 27, 2025

Date of Report: Jun. 27, 2025

Report Number: HK2506193229-E



Test Result Certification

Applicant's Name:	shenzhenshi	vunfanhao	iinakeii	vouxiand	ionasi
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230hao201, shenzhenshi, China

Manufacturer's Name.....: shenzhenshiyunfanhaojingkejiyouxiangongsi

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Product Description

Trade Mark.....: HIJH SAIL Product Name: LED Display

P6, P0.9, P1.25, P1.56, P1.86, P1.875, P1.923, P2.0, P2.5,

Report No.: HK2506193229-E

Model and/or Type Reference: P2.604, P2.976, P3.0, P3.076, P3.33, P3.84, P3.91, P4, P4.81, P5,

P6, P6.67, P7.62, P8, P10, P12, P16, P20, P25

FCC Rules and Regulations Part 15 Subpart C Section 15.247 Standards....:

ANSI C63.10: 2013

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Date of Test:

Jun. 19, 2025 ~ Jun. 27, 2025 Date (s) of Performance of Tests.....:

Date of Issue: Jun. 27, 2025

Test Result

Testing Engineer

Technical Manager

Sliver Wan

Authorized Signatory

Jason Zhou



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** Modified History **

Revision	Description	Issued Data	Remark	
Revision 1.0	Initial Test Report Release	Jun.27, 2025	Jason Zhou	
y dto 3	DIAN TESTING	HUAK TESTING		
HUAK TESTING				



1.1 Test Procedures and Results

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247(b)(4)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247(b)(3)	PASS
6dB Emission Bandwidth	§15.247(a)(2)	PASS
Power Spectral Density	§15.247(e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

1.2 Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd. Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01. FCC Designation Number is CN1229. Canada IC CAB identifier is CN0045. CNAS Registration Number is L9589.



1.3 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU			
1	Conducted Emission	±2.71dB			
2	RF Power, Conducted	±0.37dB			
3	Spurious Emissions, Conducted ±0.1				
4	All Emissions, Radiated(<1G) ±3				
5	All Emissions, Radiated(>1G)	±4.28dB			
6	Temperature ±0.				
7	Humidity HUACTESTING	±1.0%			



2. EUT Description

2.1 General Description of EUT

Equipment:	LED Display
Model Name:	P6
Series Model:	P0.9, P1.25, P1.56, P1.86, P1.875, P1.923, P2.0, P2.5, P2.604, P2.976, P3.0, P3.076, P3.33, P3.84, P3.91, P4, P4.81, P5, P6, P6.67, P7.62, P8, P10, P12, P16, P20, P25
Model Difference:	All model's the function, software and electric circuit are the same, only with product model named different. Test sample model: P6.
FCC ID:	2BQJ3-P6
Antenna Type:	Internal Antenna
Antenna Gain:	3.17dBi
Operation Frequency:	802.11b/g/n (HT20):2412~2462 MHz 802.11n (HT40): 2422~2452MHz
Number of Channels:	802.11b/g/n(HT20): 11CH 802.11n (HT40): 7CH
Modulation Type:	DSSS, OFDM
Power Source:	AC 100-240V, 400W
Power Rating:	AC 100-240V, 400W
Hardware Version:	V2.1
Software Version:	V2.1 HUAK TESTING

Note

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. Antenna gain Refer to the antenna specifications.
- 3. The cable loss data is obtained from the supplier.
- 4. The test results in the report only apply to the tested sample.



2.2 Carrier Frequency of Channels

Channel List For 802.11b/802.11g/802.11n (HT20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
HUAK 02 NG	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

	Channel List For 802.11n (HT40)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
HUAK TESTING		04	2427	07	2442		
		05	2432	08	2447	-	
03	2422	06	2437	09	2452	(\sta)	

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

2.3 Operation of EUT during Testing

Operating Mode

The mode is used: Transmitting mode for 802.11b/802.11g/802.11n (HT20)

Low Channel: 2412MHz Middle Channel: 2437MHz High Channel: 2462MHz

The mode is used: Transmitting mode for 802.11n (HT40)

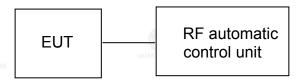
Low Channel: 2422MHz Middle Channel: 2437MHz High Channel: 2452MHz



2.4 Description of Test Setup

Operation of EUT during radiation testing and AC Conducted testing:

Operation of EUT during RF Conducted testing:



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.



2.5 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Remark
1	LED Display	HIJH SAIL	P6	N/A	EUT
			(31)	HUAK TESTING	ŀ

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

3.1 Test Environment and Mode

3. General Information

25.0 °C HUAK TESTING				
56 % RH				
1010 mbar				
Engineering Mode: Keep the EUT in continuous transmitti by select channel and modulations				

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	6.5Mbps
802.11n(HT40)	13.5Mbps

Final Test Mode:

Operation mode:

Keep the EUT in continuous transmitting with modulation

- 1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.
- 2.According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(HT20), 13.5Mbps for 802.11n(HT40).

3. Mode Test Duty Cycle

Mode	Duty Cycle
802.11b	0.96
802.11g	0.96
802.11n(HT20)	0.96
802.11n(HT40)	HUAK TEST 0.93

Test plots as follows:

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4. Test Results and Measurement Data

4.1 AC Conducted Emission

Test Specification

Test Requirement:	FCC Part15 C Section	on 15 207	WAY FRETING				
•	AK TESTING	511 15.207					
Test Method:	ANSI C63.10:2013						
Frequency Range:	150 kHz to 30 MHz		HUAK TESTING				
Receiver Setup:	RBW=9 kHz, VBW=	RBW=9 kHz, VBW=30 kHz, Sweep time=auto					
	Frequency range (MHz)	Limit (c	dBuV) Average				
Limits:	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	Reference Plane						
Test Setup:	40cm E.U.T AC power 80cm Filter AC power Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m						
Test Mode:	Transmitting with mo	odulation					
Test Procedure:	 The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 						
Test Result:	N/A						



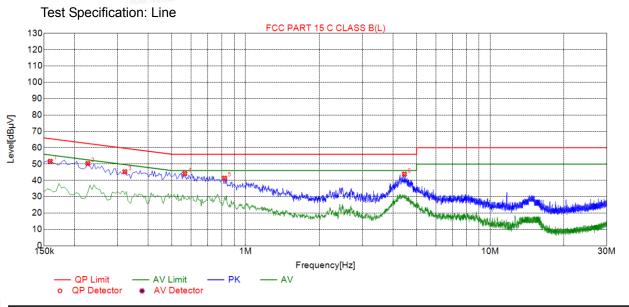
Test Instruments

100	V KTA 9						
Conducted Emission Shielding Room Test Site (843)							
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Receiver	R&S	ESR	HKE-005	Feb. 19, 2025	Feb. 18, 2026		
LISN	R&S	ENV216	HKE-002	Feb. 19, 2025	Feb. 18, 2026		
LISN	R&S	ENV216	HKE-059	Feb. 19, 2025	Feb. 18, 2026		
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Feb. 19, 2025	Feb. 18, 2026		
EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	N/A	N/A		
10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 19, 2025	Feb. 18, 2026		

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



4.2 Test Result



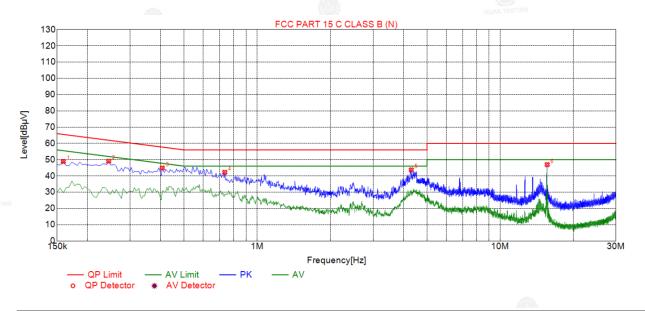
Sus	Suspected List								
NO.	Freq. [MHz]	Level [dBµ∀]	Factor [dB]	Limit [dBµ∀]	Margin [dB]	Reading [dBµ∀]	Detector	Туре	
1	0.1590	51.66	19.56	65.52	13.86	32.10	PK	L	
2	0.2265	50.33	19.83	62.58	12.25	30.50	PK	L	
3	0.3210	45.24	19.85	59.68	14.44	25.39	PK	L	
4	0.5640	44.20	19.79	56.00	11.80	24.41	PK	L	
5	0.8205	41.38	19.70	56.00	14.62	21.68	PK	L	
6	4.4610	43.83	20.37	56.00	12.17	23.46	PK	L	

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor



Test Specification: Neutral



Su	Suspected List									
NO.	Freq. [MHz]	Level [dBµ∀]	Factor [dB]	Limit [dBµ∀]	Margin [dB]	Reading [dBµ∀]	Detector	Туре		
1	0.1590	48.86	19.61	65.52	16.66	29.25	PK	N		
2	0.2445	49.04	19.65	61.94	12.90	29.39	PK	N		
3	0.4065	44.85	19.70	57.72	12.87	25.15	PK	N		
4	0.7350	42.19	19.76	56.00	13.81	22.43	PK	N		
5	4.3080	43.72	20.19	56.00	12.28	23.53	PK	N		
6	15.6300	46.98	21.92	60.00	13.02	25.06	PK	N		

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor



4.3 Maximum Conducted Output Power

Test Specification

	A0155
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02
Limit:	30dBm
Test Setup:	RF automatic control unit EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB 558074 D01 15.247 Meas Guidance v05r02. The RF output of EUT was connected to the RF automatic control unit by RF cable. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the Peak output power and record the results in the test report.
Test Result:	PASS

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document



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Test Instruments

100	(et a)							
	RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due			
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026			
Power meter	Agilent	E4419B	HKE-085	Feb. 19, 2025	Feb. 18, 2026			
Power Sensor	Agilent	E9300A	HKE-086	Feb. 19, 2025	Feb. 18, 2026			
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026			
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026			
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



Test Data

Mode	Test Channel	Frequency	Maximum Peak Conducted Output Power	LIMIT
		(MHz)	(dBm)	dBm
802.11b	CH01	2412	13.51	30
802.11b	CH06	2437	13.72	TESTING 30
802.11b	CH11	2462	13.96	30
802.11g	CH01	2412	13.60	30
802.11g	CH06	2437	13.74	30
802.11g	CH11	2462	13.20	30
802.11n(HT20)	CH01	2412	13.99	30
802.11n(HT20)	CH06	2437	13.87	30
802.11n(HT20)	CH11	2462	13.60	30
802.11n(HT40)	CH03	2422	13.53	30
802.11n(HT40)	CH06	2437	13.66	30
802.11n(HT40)	CH09	2452	13.19	30

Note: The test results including the cable loss.



4.4 Emission Bandwidth

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02
Limit:	>500kHz
Test Setup:	Spectrum Analyzer HUAK TEB INS
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test Result:	PASS

Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026	
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026	
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026	
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A	

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).





Test Data

			HOART			
Test channel	6dB Emission Bandwidth (MHz)					
rest channel	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	8.080	16.360	17.560	35.600		
Middle	8.080	16.320	17.320	35.120		
Highest	8.560	16.360	17.560	35.360		
Limit:		>5	00kHz	NG		
Test Result:	IAK TESTING	F	PASS			

Test plots as follows:



802.11b Modulation

Lowest channel



Middle channel



Highest channel





802.11g Modulation

Lowest channel

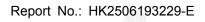


Middle channel



Highest channel







802.11n (HT20) Modulation

Lowest channel

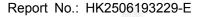


Middle channel



Highest channel

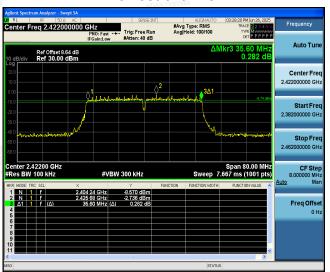




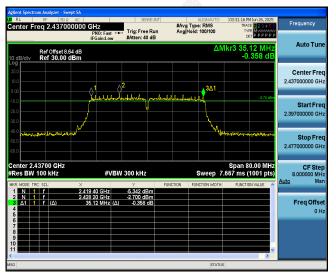


802.11n (HT40) Modulation

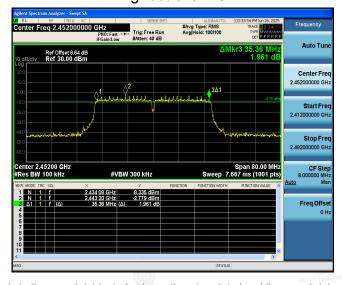
Lowest channel



Middle channel



Highest channel





4.5 Power Spectral Density

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)					
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02					
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 The testing follows Measurement procedure 10.2 method PKPSD of FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. Detector = Peak, Sweep time = auto couple. Employ trace averaging (Peak) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. 					
Test Result:	PASS HUAK TESTING					



Test Instruments

	4014			HUAKTESTING			
RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026		
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026		
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A HUAK TESTING		

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



Test data

Channel	Result (dBm/30KHz)	Result (dBm/3kHz)				
Lowest	-1.46	-11.46				
Middle	-0.55	-10.55 HUAK TESTING				
Highest	-0.02	-10.02				
Lowest	-4.61	-14.61				
Middle	-4.59	-14.59				
Highest	-4.56	-14.56				
Lowest	-4.03	-14.03				
Middle	-4.12 HUAK TEST	-14.12				
Highest	-4.76	-14.76				
Lowest	-5.74	-15.74				
Middle	-6.11	-16.11				
Highest	-6.20	-16.2				
PSD Test Result (dBm/3kHz)= PSD Test Result (dBm/30kHz)-10						
lz						
PASS						
	Lowest Middle Highest	Lowest -1.46 Middle -0.55 Highest -0.02 Lowest -4.61 Middle -4.59 Highest -4.56 Lowest -4.03 Middle -4.12 Highest -4.76 Lowest -5.74 Middle -6.11 Highest -6.20 (dBm/3kHz)= PSD Test Result (dBm/30kHz)				

Test plots as follows:



802.11b Modulation

Lowest channel



Middle channel



Highest channel





802.11g Modulation

Lowest channel

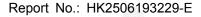


Middle channel



Highest channel

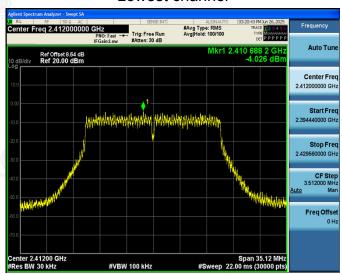






802.11n (HT20) Modulation

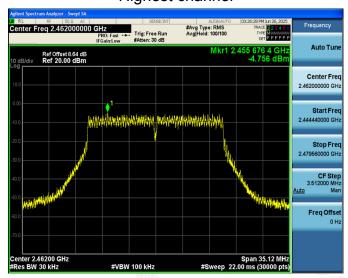
Lowest channel

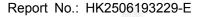


Middle channel



Highest channel

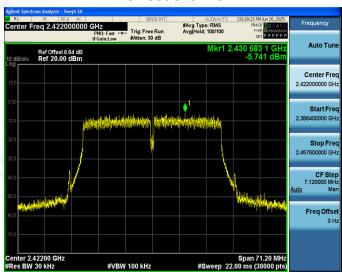




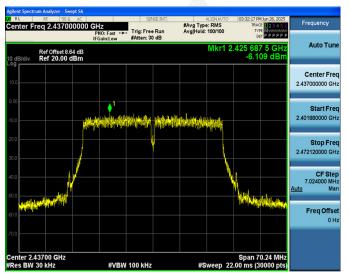


802.11n (HT40) Modulation

Lowest channel



Middle channel



Highest channel





4.6 Conducted Band Edge and Spurious Emission Measurement

Test Specification

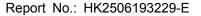
Test Requirement:	FCC Part15 C Section 15.247 (d)		
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02		
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).		
Test Setup:	Spectrum Analyzer EUT		
Test Mode:	Transmitting mode with modulation		
Test Procedure:	 The testing follows FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 		
Test Result:	PASS		



Test Instruments

1927	v et a v						
RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026		
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 19, 2025	Feb. 18, 2026		
RF Cable (9KHz-26.5GHz)	Tonscend	170660	HUAK TESTIV N/A	Feb. 19, 2025	Feb. 18, 2026		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026		
RF Test software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A		

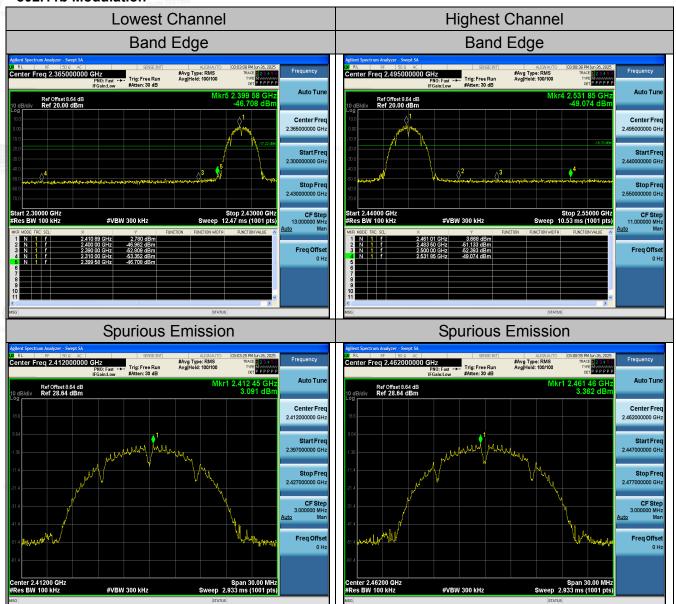
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



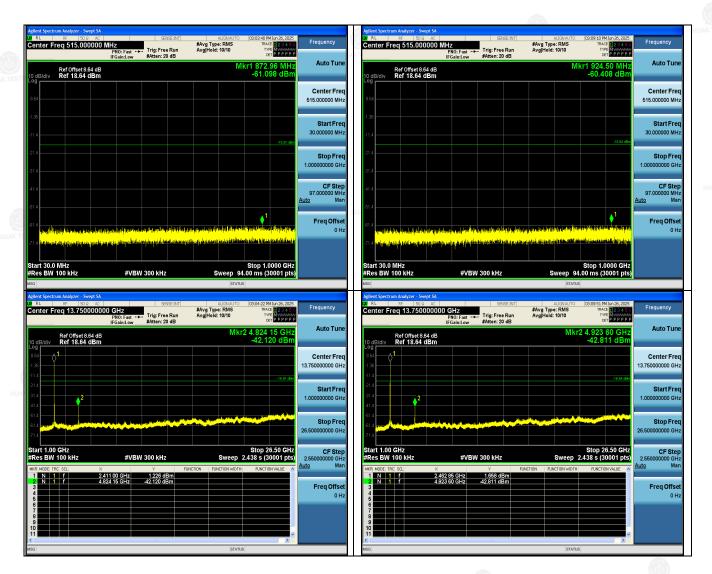


Test Data

802.11b Modulation

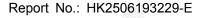




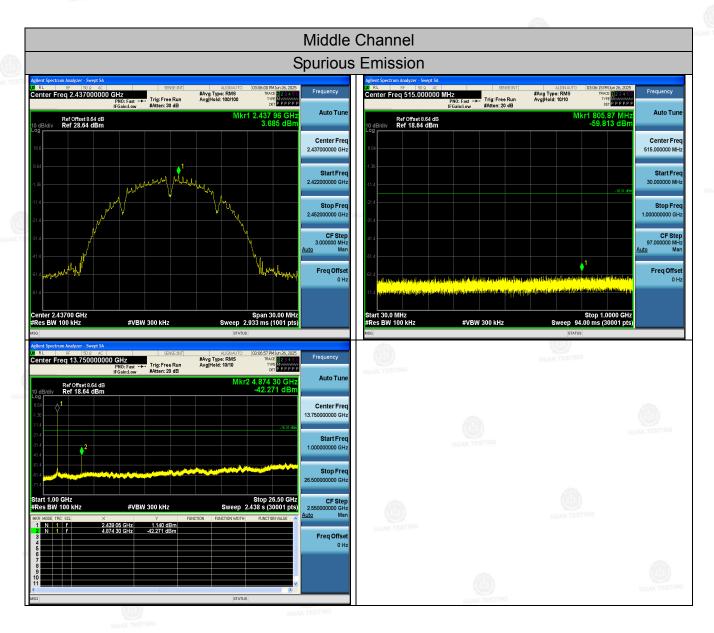


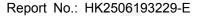
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAK Testing Technology Co., Ltd., this document cannont be reproduced except in full with our prior written permission.

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802.11g Modulation

