



HD Technology

Report No.: 86260519189

Date: Jun. 11, 2026

Page 1 of 44

RF TEST REPORT

Applicant : Zhuhai Miansleep Technology Co, Ltd.

Address: Office 828, No.108 Xiang'ao Road, Hengqin New Area, Zhuhai City, China

Manufacturer: Zhuhai Miansleep Technology Co, Ltd.

Address: Office 828, No.108 Xiang'ao Road, Hengqin New Area, Zhuhai City, China

EUT Name: Bluetooth Speaker

Trade mark: MianSleep

Model: A1

Power supply: Type-C Input : DC 5V
3.7V by battery

Sample Received Date: May 19, 2026

Test Date: May 19, 2026~Jun. 11, 2026

Applicable Standards: MIC Notice No.88 Appendix No.43Article 2, Paragraph 1, Item 19 Rules Section

Application Purpose Original Grant

Prepared by:

Evan Fang

Approved by:

Bruce Zhang

Evan Fang/Project Engineer

Bruce Zhang/Technical Manager

HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,
Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: info@hdt-lab.com

Website: www.hdt-lab.com

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Revision History

Version	Date of Issue	Description
V00	Jun. 11, 2026	Original Version

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1. TEST SUMMARY

Article 2, Paragraph 1, Item 19	Ordinance Regulating Radio Equipment	Description of Test	Test result
	Article 5	Frequency Error	PASS
	Article 6	Occupied Bandwidth	PASS
	Article 7	Spurious emission intensity	PASS
	Article 14&Article 49-20	Antenna Power Error and EIRP Antenna Power	PASS
	Article 24.2	Secondary Spurious Emissions	PASS
	Article 49-20	Transmission Antenna Gain	Not Applicable
	Article 49-20	Transmission Radiation Angle Width	Not Applicable
	Article 49-20	Frequency Hopping Dwell Time	PASS
	Article 9-4.5	Interference Prevention Function	PASS
	Article 49-20	Construction Protection Confirmation	PASS

Not Applicable

- This test item was not required for the output power less than 6.91dBm/MHz (E.I.R.P)

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2. TEST SITE

2.1. Test Facility

HD Testing Technology (GuangDong) Co., Ltd.

Address: Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong, China

A2LA Certificate Number.:7547.01

2.2. Measurement Uncertainty

Uncertainty	
Parameter	Uncertainty
Radio frequency	± 0.12 ppm
Occupied Channel Bandwidth	± 142.12 kHz
RF power conducted	± 0.74 dB
RF power density test	± 1.28 dB
Spurious emissions, conducted	± 1.78 dB
Humidity	$\pm 4.6\%$
Temperature	$\pm 0.7^{\circ}\text{C}$
Time	$\pm 1.25\%$

Note 1: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

2.3. Test Environment Condition

Ambient Temperature:	24.6°C
Ambient Relative Humidity:	55 %

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3. TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Interval
Shielding Room	Taihe Mao Rui Electronic Equipment Co., Ltd.	8m*4m*4m	HDT-EM-030	Oct. 12, 2024	5 Year
Signal Analyzer	Keysight	N9020A	HDT-EM-038	Mar. 02, 2026	1 Year
DC Power	Agilent	E3632A	HDT-EM-043	Mar. 02, 2026	1Year
Power switching box	WCS Technology	SMU-3002	HDT-EM-047	Apr. 15, 2026	1 Year
Temperature & Humidity Meter	Beichuang	HTC-1	HDT-EM-026	Mar. 02, 2026	1 Year
Signal Generator	Agilent	N 5182A	HDT-EM-037	Mar. 02, 2026	1 Year
Power meter	Agilent	E4417A	HDT-EM-060	May 16, 2026	1 Year
Power Probe	Agilent	E9304A	HDT-EM-061	May 16, 2026	1 Year
RF Test Software	WCS Technology	WCN-Regulatory	Version 25.03.2901		

Note:

1. The attenuator is integrated into the Power Switch Box and taken into consideration during testing.

2.The testing equipment is calibrated through method (c).

(a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1) in JRL.

(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992) .

(c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).

(d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right

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column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c)

From JRL Article 24-2, paragraph 4, Item 2

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4. EUT DESCRIPTION

Product:	Bluetooth Speaker
Test Model:	A1
Additional Model:	N/A
Power supply:	Type-C Input : DC 5V 3.7V by battery
Antenna Type:	Chip Antenna
Antenna Gain:	1.7dBi
Specification	Bluetooth ER EDR
Operation Frequency:	2402-2480MHz
Number of Channels:	79
Modulation Type:	GFSK, π /4-DQPSK,8DPSK
Hardware Version:	V1.0
Software Version:	V1.0
Note: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2) Antenna gain was provided by the applicant/ manufacturer, and the applicant/ manufacturer is responsible for its validity. 3) The test results in the report only apply to the tested sample.	

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4.1. Description of Test Configuration

Channel List for Bluetooth:

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	-	-

Test Channel

- Low Channel:2402MHz
- Middle Channel: 2441MHz
- High Channel:2480MHz

4.2. Equipment Modifications

Any modifications installed previous to testing by Zhuhai Miansleep Technology Co, Ltd. will be incorporated in each production model sold / leased in the Japan.

No modifications were installed by HD Testing Technology (GuangDong) Co., Ltd..

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5. TEST METHODOLOGY

5.1. EUT System Operation

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The EUT was powered by DC 5V from adapter during the test.

5.2. Configuration and Mode

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.

Based on the baseline scan, the worst-case data rates were:

Mode	Data rate
GFSK	DH5
π /4-DQPSK	2DH5
8DPSK	3DH5

5.3. TEST CONDITIONS

The BT module was tested while in a continuous transmitter/receiver mode. The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans were completed in all Modes to determine worst case levels.

EUT and Module Power tables				
EUT Setup Value (Vac)		Normal	Hight(+10%)	Low(-10%)
		5V	5.5V	4.5V
IC Vdd Power Measurement Value (Vdc)		Normal	Hight(+10%)	Low(-10%)
		3.3V	3.3V	3.3V
Voltage error (%)	Result	Ref. level	0	0
	Limit	----	± 1	
Judgment		----	normal	normal

Note: Judgment: Since the input voltage of the RF module changes by less than 1% when the EUT input power supply varies by $\pm 10\%$, only the normal voltage needs to be tested

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6. SETUP OF EQUIPMENT UNDER TEST

6.1. 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.

Support Equipment

No.	Equipment	Model	Serial No.	Manufacturer
1	Notebook	Lenovo Rescuer 15ISK	PF0GS9S1	Lenovo
2	USB serial port board	CP2102	/	Silicon Labs

Support Cable

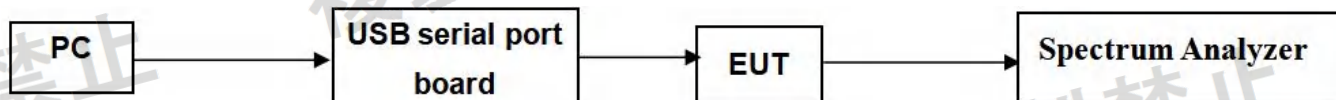
No.	Description	Shield	Length	Manufacturer
1	/	/	/	/
2	/	/	/	/

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.

6.2. Block Diagram of EUT Configuration

RF Conducted configuration



6.3. EUT Exercise Software

Test software:FCC_assist_1.0.2.2

Mode	Power setting
GFSK	2
4-DQPSK	2
8PSK	2

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Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: info@hdt-lab.com

Website: www.hdt-lab.com

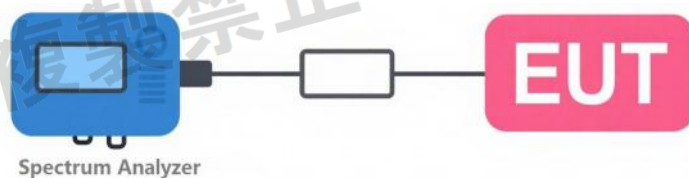
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7. TEST RESULTS AND MEASUREMENT DATA

7.1. FREQUENCY ERROR MEASUREMENT

Test Requirement:	Article 2-1 Item 19
Test Mode:	Transmitting mode with no modulation
Limit:	±50ppm or less
Test Procedure:	Set spectrum analyzer as following: Frequency = Test Frequency SPAN = 500kHz RBW = 10kHz VBW = 10kHz Sweep Time = Auto Detector Mode = Peak Display Mode = Max Hold
Test Result:	PASS

7.1.1. Test Setup:



HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: info@hdt-lab.com

Website: www.hdt-lab.com

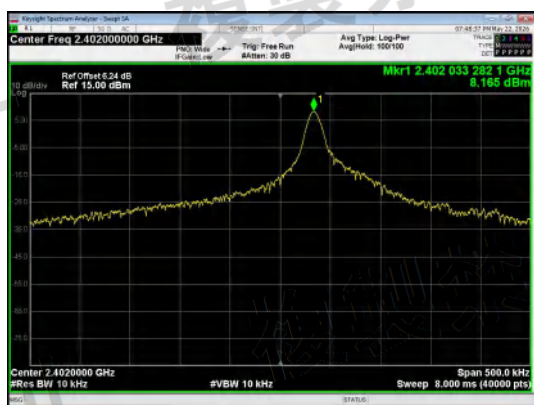
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7.1.2. Test Result

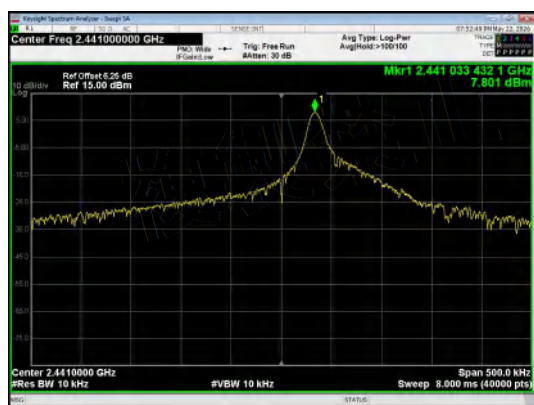
Please refer to following tables.

Condition	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	2402	Ant1	2402.0332	13.86	±50	Pass
NVNT	2441	Ant1	2441.0334	13.70	±50	Pass
NVNT	2480	Ant1	2480.0336	13.58	±50	Pass

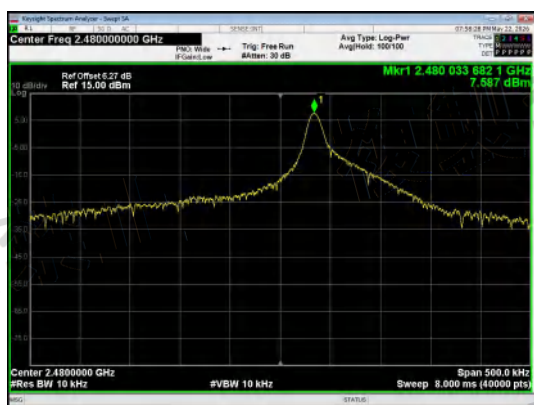
Please refer to Recording the spectrum plots in the worst conditions



NT/NV_2402MHz



NT/NV_2441MHz



NT/NV_2480MHz

HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,
Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: info@hdt-lab.com

Website: www.hdt-lab.com

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7.2. OCCUPIED BANDWIDTH (99%) AND SPREADING BANDWIDTH

Test Requirement:	Article 2-1 Item 19	
Test Mode:	Transmitting mode with modulation	
Standard	Type(Occupied Bandwidth)	Limit
Article 2-1 Item 19	FHSS	≤83.5MHz
	DSSS	≤26MHz
	OFDM	≤38MHz
	others	≤26MHz
Standard	Item(Spreading Bandwidth)	Limit
Article 2-1 Item 19	Spreading Bandwidth	/
Test Procedure:	Set Spectrum Analyzer as below: SPAN = 100MHz RBW = 300kHz VBW = 300kHz Sweep Time = Auto Detector Mode = Peak Display Mode = Max Hold Spreading Bandwidth SPAN = (Spreading Bandwidth limit * 3) MHz (example; 200MHz) RBW = 300kHz VBW = 300kHz Sweep Time = Auto Detector Mode = Peak Display Mode = Max Hold	
Test Result:	PASS	

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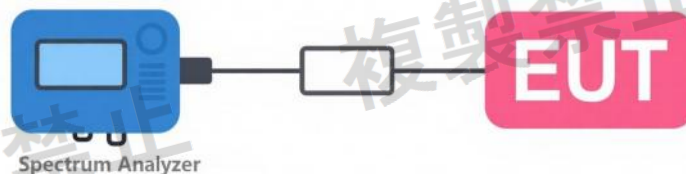
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7.2.1. Test Setup:



7.2.2. Test Result

Please refer to following tables and plots.

Occupied Bandwidth

Condition	Mode	Frequency (MHz)	99% OBW (MHz)	Limit (MHz)	Verdict
NVNT	GFSK	HOP	78.148	≤83.5	Pass
NVNT	$\pi/4$ DQPSK	HOP	78.261	≤83.5	Pass
NVNT	8DPSK	HOP	78.250	≤83.5	Pass

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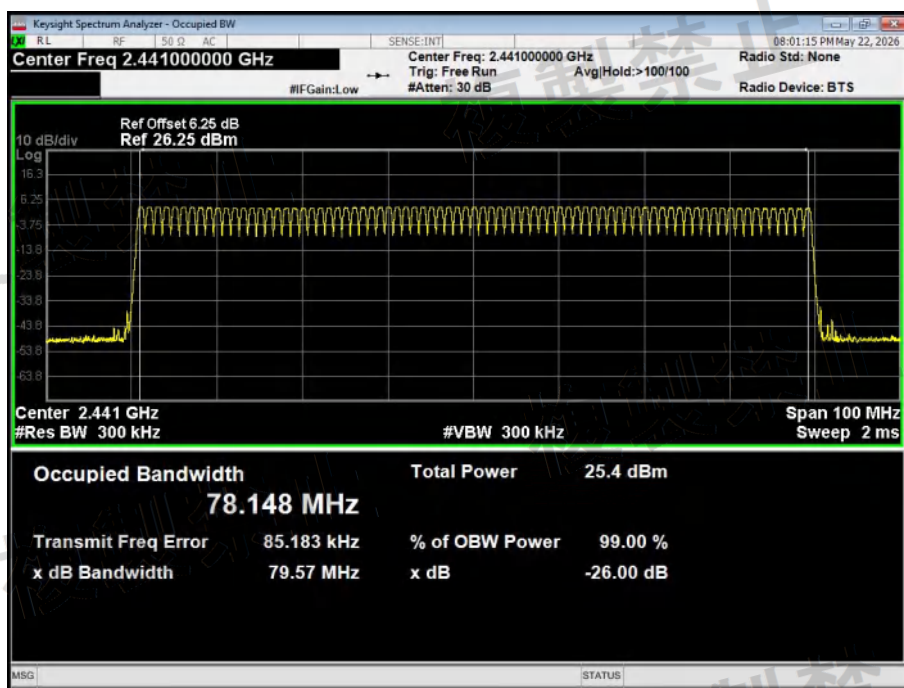
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Tel: +86-0769-22221088

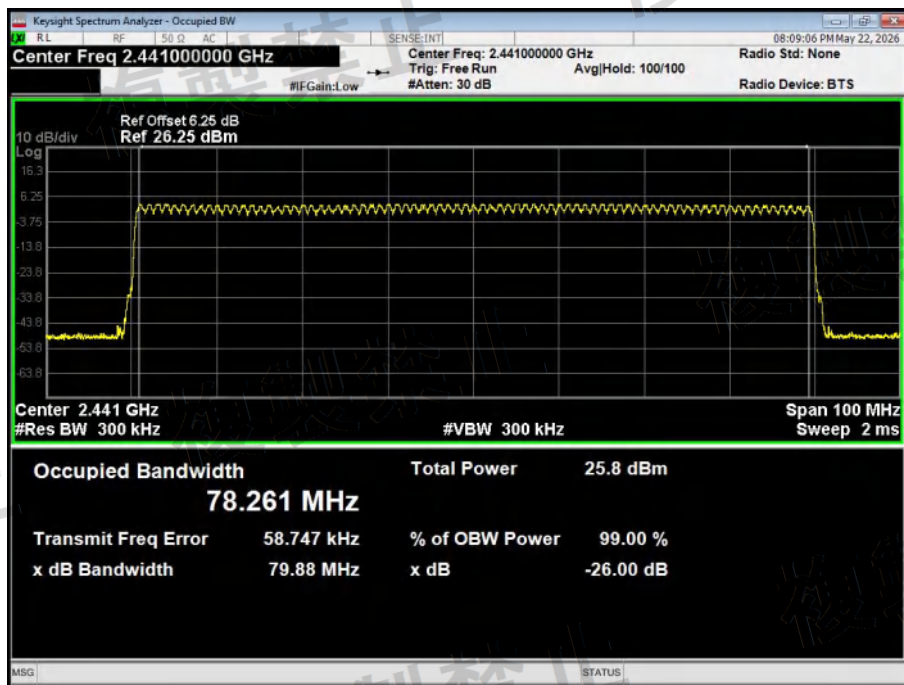
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NT/NV_GFSK_DH5



NT/NV_pi/4QPSK_2-DH5

HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,
Dongguan, Guangdong, China

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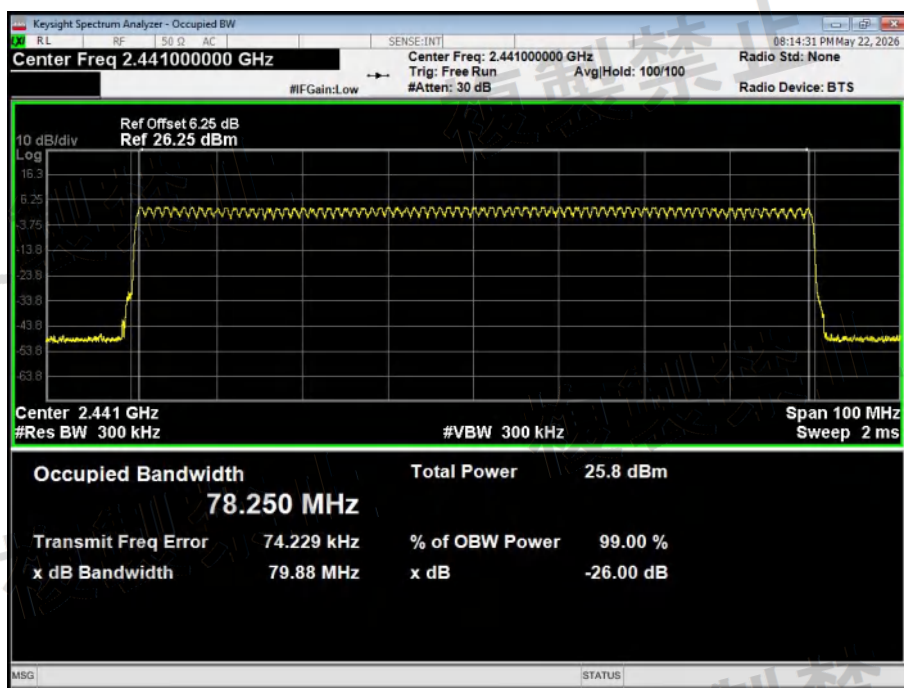
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NT/NV_8DPSK_3-DH5

Spreading Bandwidth

Condition	Mode	Frequency (MHz)	90% SBW (MHz)
NVNT	GFSK	HOP	70.982
NVNT	$\pi/4$ DQPSK	HOP	71.297
NVNT	8DPSK	HOP	71.149

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Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

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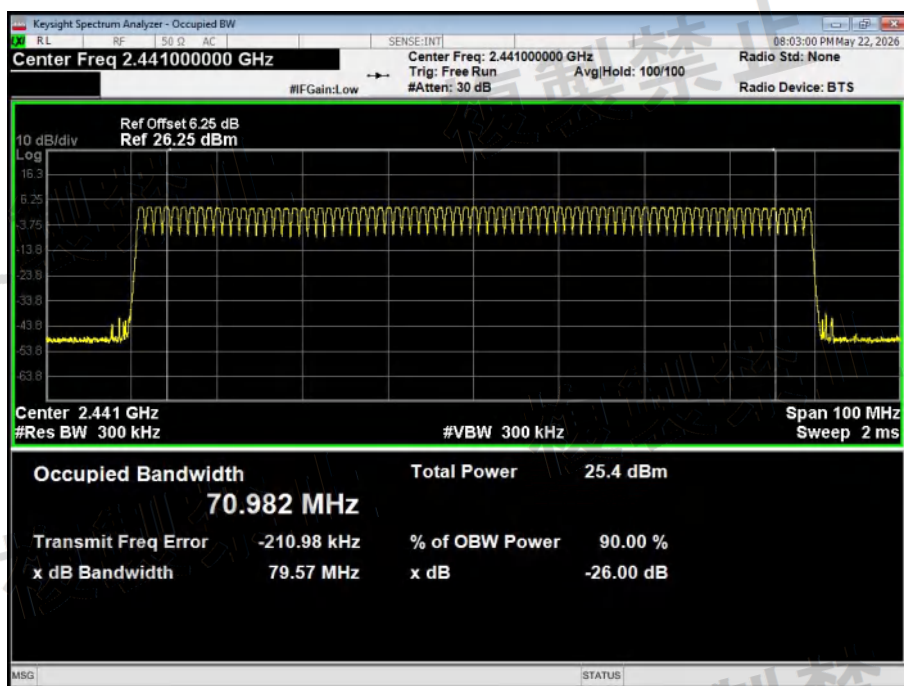
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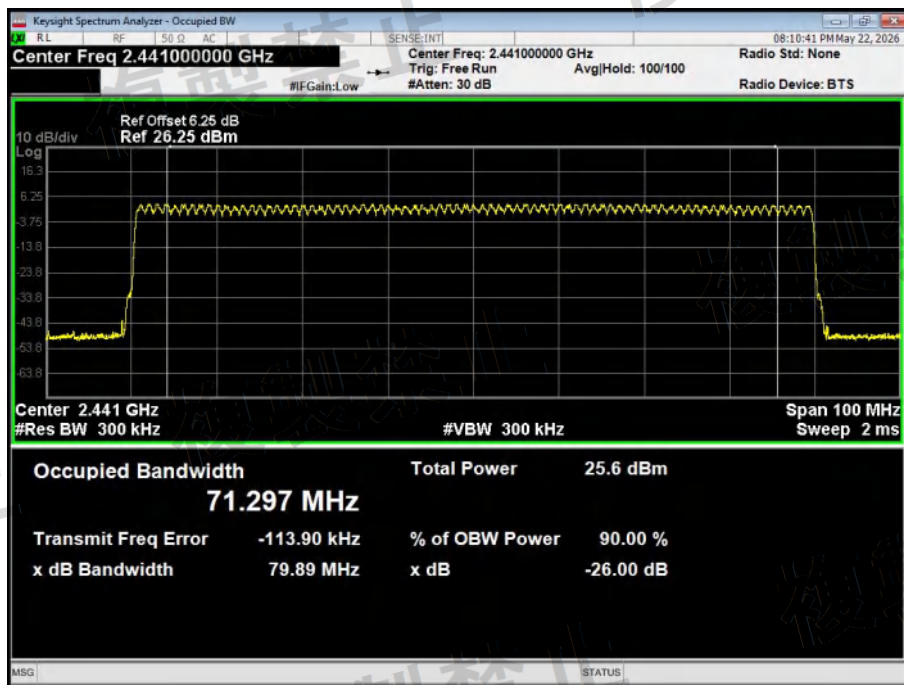
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NT/NV_GFSK_DH5



NT/NV $\pi/4$ DQPSK_2-DH5

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Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,
Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: info@hdt-lab.com

Website: www.hdt-lab.com

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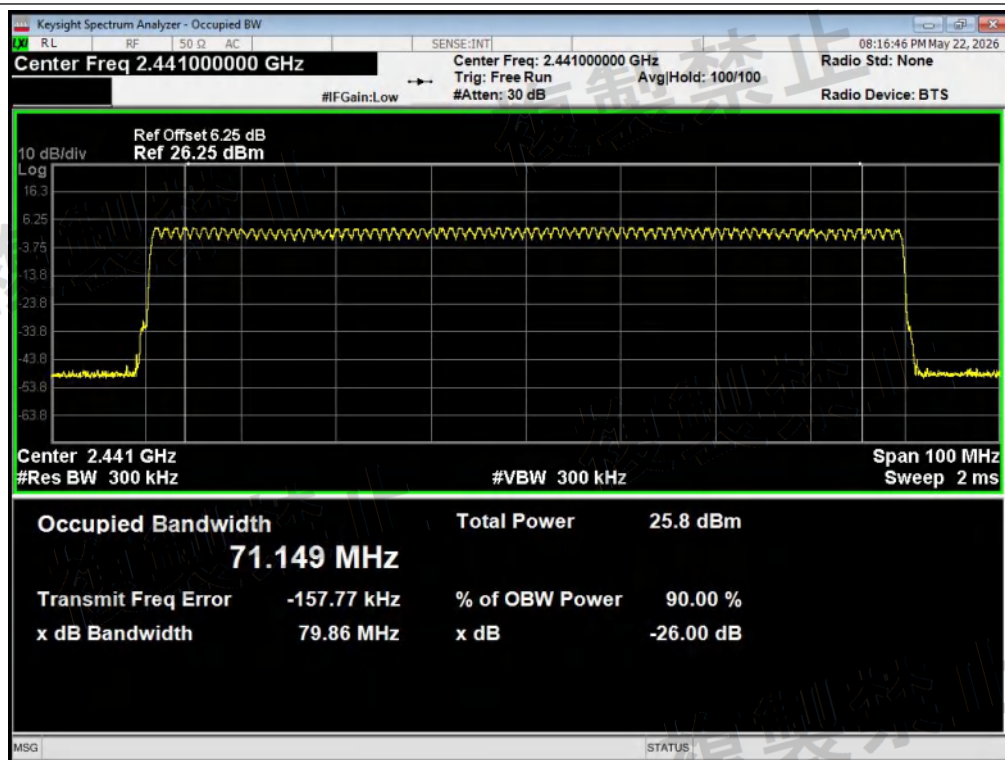
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NT/NV_8DPSK_3-DH5

HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: info@hdt-lab.com

Website: www.hdt-lab.com

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7.3. SPURIOUS EMISSION INTENSITY

Test Requirement:	Article 2-1 Item 19			
Test Mode:	Transmitting mode with modulation			
Limit:				
	Standard	Item	Frequency	Limit
	Article 2-1 Item 19	TX Spurious Emission	30 - 1000MHz	2.5μW/MHz
			1000 - 2387MHz	2.5μW/MHz
			2387 - 2400MHz	25μW/MHz
			2483.5 - 2496.5MHz	25μW/MHz
			2496.5MHz - 12.5GHz	2.5μW/MHz
Test Procedure:	Frequency = 30-1000MHz; 1000-2387MHz; 2387-2400MHz; 2483.5-2496.5MHz; 2496.5MHz-12.5GHz RBW = 1MHz for Below 1GHz 1MHz for Above 1GHz VBW = 1MHz for Below 1GHz 1MHz for Above 1GHz Sweep Time = Auto Detector Mode = Peak Display Mode = Max Hold			
Test Result:	PASS			

7.3.1. Test Setup



HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: info@hdt-lab.com

Website: www.hdt-lab.com

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7.3.2. Test Result

Please refer to following table and plots.

Normal Voltage

Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm/MHz)	Max Value (μ W/MHz)	Limit (μ W/MHz)	Verdict
NVNT	GFSK	2402	30- 1000	192.0	-60.353	0.00092	2.5	Pass
NVNT	GFSK	2402	1000 - 2387	2276.73	-49.156	0.01215	2.5	Pass
NVNT	GFSK	2402	2387 - 2400	2398.66	-41.576	0.06957	25	Pass
NVNT	GFSK	2402	2483.5 - 2496.5	2487.12	-51.784	0.00663	25	Pass
NVNT	GFSK	2402	2496.5-12500	4840.44	-45.657	0.02718	2.5	Pass
NVNT	GFSK	2441	30- 1000	833.59	-48.587	0.01385	2.5	Pass
NVNT	GFSK	2441	1000 - 2387	2249.54	-49.389	0.01151	2.5	Pass
NVNT	GFSK	2441	2387 - 2400	2397.09	-54.288	0.00373	25	Pass
NVNT	GFSK	2441	2483.5 - 2496.5	2485.51	-54.746	0.00335	25	Pass
NVNT	GFSK	2441	2496.5-12500	4882.95	-45.596	0.02757	2.5	Pass
NVNT	GFSK	2480	30- 1000	833.44	-47.293	0.01865	2.5	Pass
NVNT	GFSK	2480	1000 - 2387	2288.66	-49.375	0.01155	2.5	Pass
NVNT	GFSK	2480	2387 - 2400	2397.63	-60.118	0.00097	25	Pass
NVNT	GFSK	2480	2483.5 - 2496.5	2486.2	-47.595	0.01740	25	Pass
NVNT	GFSK	2480	2496.5-12500	4960.49	-47.382	0.01827	2.5	Pass

HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

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Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm/MHz)	Max Value (μW/MHz)	Limit (μW/MHz)	Verdict
NVNT	π/4DQPSK	2402	30- 1000	185.16	-61.936	0.00640	2.5	Pass
NVNT	π/4DQPSK	2402	1000 - 2387	2288.66	-49.816	0.01043	2.5	Pass
NVNT	π/4DQPSK	2402	2387 - 2400	2395.81	-54.178	0.00382	25	Pass
NVNT	π/4DQPSK	2402	2483.5 - 2496.5	2491.65	-55.043	0.00313	25	Pass
NVNT	π/4DQPSK	2402	2496.5-12500	4812.43	-46.21	0.02393	2.5	Pass
NVNT	π/4DQPSK	2441	30- 1000	925.84	-60.301	0.00093	2.5	Pass
NVNT	π/4DQPSK	2441	1000 - 2387	2249.68	-50.765	0.00838	2.5	Pass
NVNT	π/4DQPSK	2441	2387 - 2400	2399.88	-53.733	0.00423	25	Pass
NVNT	π/4DQPSK	2441	2483.5 - 2496.5	2486.9	-54.896	0.00324	25	Pass
NVNT	π/4DQPSK	2441	2496.5-12500	4882.45	-46.017	0.02502	2.5	Pass
NVNT	π/4DQPSK	2480	30- 1000	833.59	-46.047	0.02485	2.5	Pass
NVNT	π/4DQPSK	2480	1000 - 2387	2288.52	-49.67	0.01079	2.5	Pass
NVNT	π/4DQPSK	2480	2387 - 2400	2399.03	-59.966	0.00101	25	Pass
NVNT	π/4DQPSK	2480	2483.5 - 2496.5	2483.62	-49.218	0.01197	25	Pass
NVNT	π/4DQPSK	2480	2496.5-12500	4960.99	-47.523	0.01769	2.5	Pass

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Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

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Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm/MHz)	Max Value (μW/MHz)	Limit (μW/MHz)	Verdict
NVNT	8DPSK	2402	30- 1000	812.2	-60.711	0.00085	2.5	Pass
NVNT	8DPSK	2402	1000 - 2387	2270.69	-49.749	0.01059	2.5	Pass
NVNT	8DPSK	2402	2387 - 2400	2396.0	-53.356	0.00462	25	Pass
NVNT	8DPSK	2402	2483.5 - 2496.5	2495.4	-54.52	0.00353	25	Pass
NVNT	8DPSK	2402	2496.5-12500	4888.46	-45.292	0.02957	2.5	Pass
NVNT	8DPSK	2441	30- 1000	394.01	-60.59	0.00087	2.5	Pass
NVNT	8DPSK	2441	1000 - 2387	2249.61	-50.312	0.00931	2.5	Pass
NVNT	8DPSK	2441	2387 - 2400	2398.86	-54.493	0.00355	25	Pass
NVNT	8DPSK	2441	2483.5 - 2496.5	2485.84	-54.356	0.00367	25	Pass
NVNT	8DPSK	2441	2496.5-12500	4882.45	-45.411	0.02877	2.5	Pass
NVNT	8DPSK	2480	30- 1000	948.15	-53.761	0.00421	2.5	Pass
NVNT	8DPSK	2480	1000 - 2387	2288.45	-49.02	0.01253	2.5	Pass
NVNT	8DPSK	2480	2387 - 2400	2396.05	-59.613	0.00109	25	Pass
NVNT	8DPSK	2480	2483.5 - 2496.5	2483.85	-48.234	0.01502	25	Pass
NVNT	8DPSK	2480	2496.5-12500	4960.49	-47.388	0.01825	2.5	Pass

Note: In the frequency band ranging from 30 MHz to 1000 MHz, the formula for converting the test values with an RBW of 100 kHz to the test values with RBW of 1 MHz is as follows

$$P_{1MHz} = P_{100kHz} + 10 \cdot \log_{10} \left(\frac{RBW_{1MHz}}{RBW_{100kHz}} \right)$$

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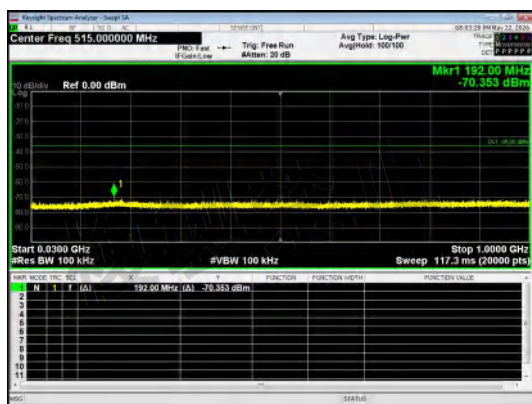
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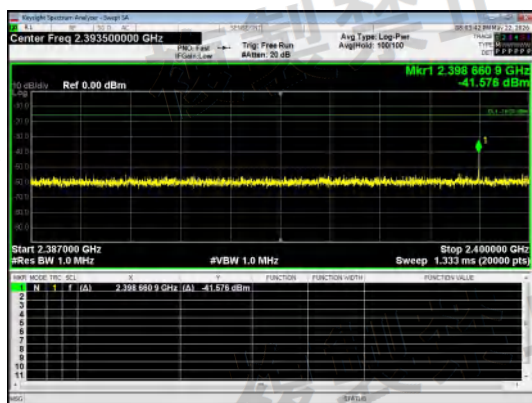
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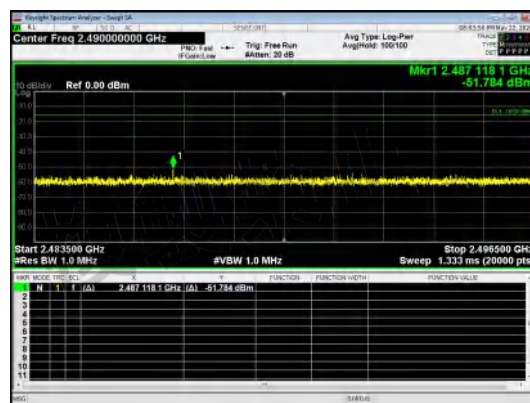
30 to 1000
NT/NV_Antenna 1_GFSK_DH5_Channel 0



1000 to 2387
NT/NV_Antenna 1_GFSK_DH5_Channel 0



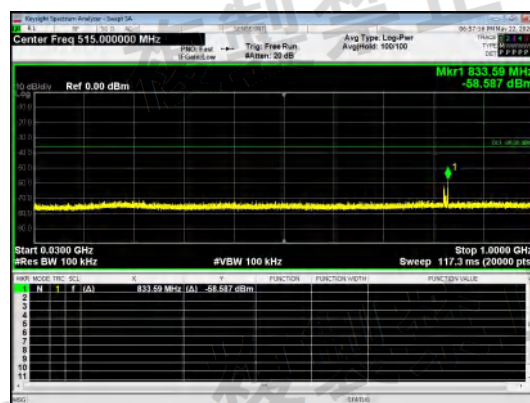
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NT/NV_Antenna 1_GFSK_DH5_Channel 0



2496.5 to 12500
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30 to 1000
NT/NV_Antenna 1_GFSK_DH5_Channel 39

HD Testing Technology (GuangDong) Co., Ltd.

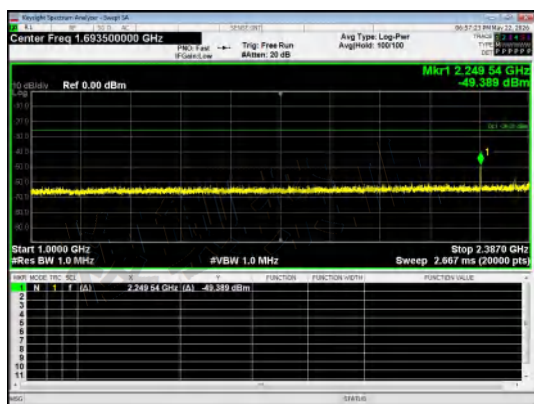
Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,
Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: info@hdt-lab.com

Website: www.hdt-lab.com

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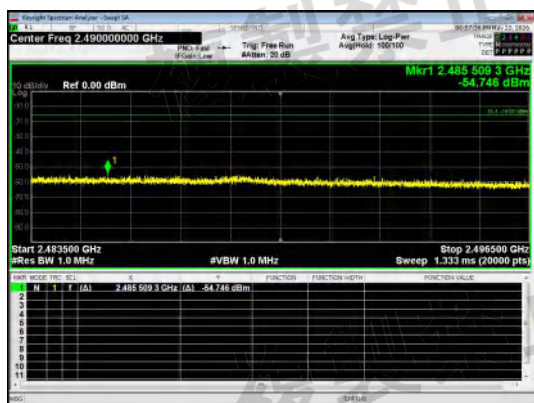
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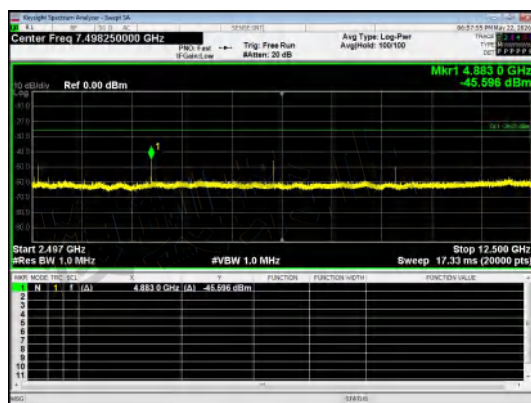
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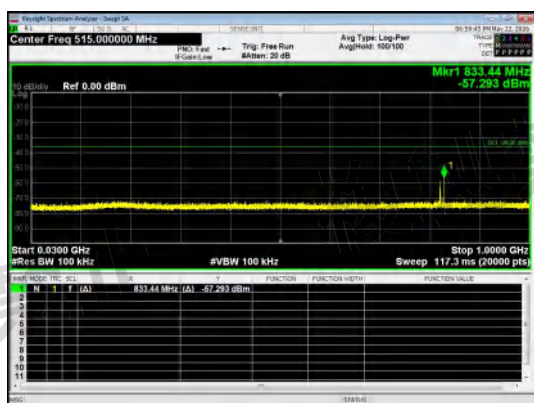
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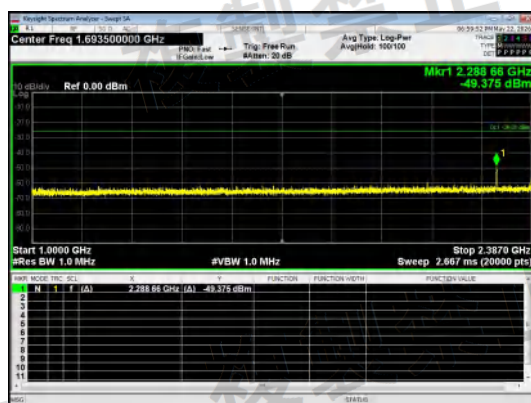
2496.5 to 12500

NT/NV_Antenna 1_GFSK_DH5_Channel 39



30 to 1000

NT/NV_Antenna 1_GFSK_DH5_Channel 78



1000 to 2387

NT/NV_Antenna 1_GFSK_DH5_Channel 78

HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

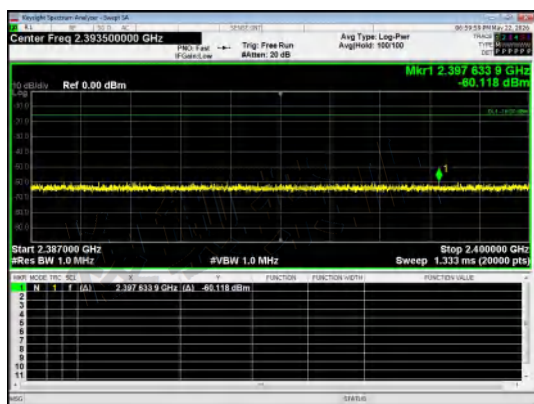
Dongguan, Guangdong, China

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E-mail: info@hdt-lab.com

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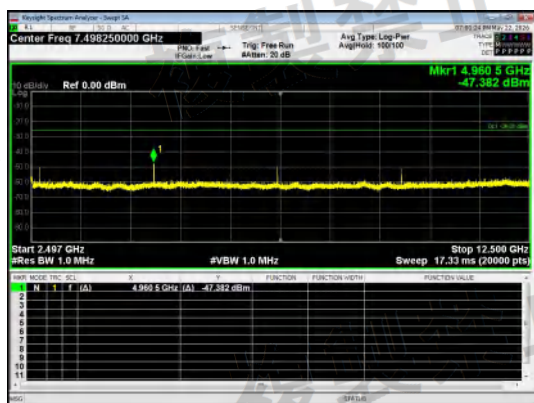
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2483.5 to 2496.5

NT/NV_Antenna 1_GFSK_DH5_Channel 78



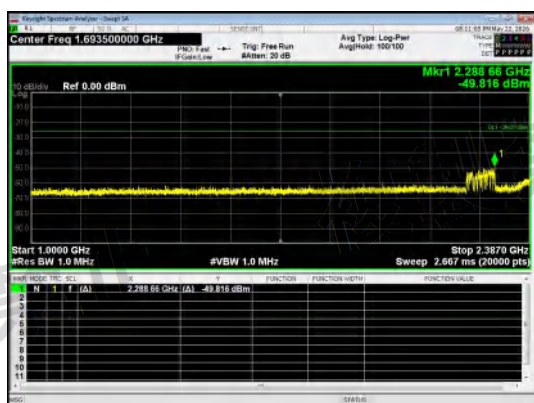
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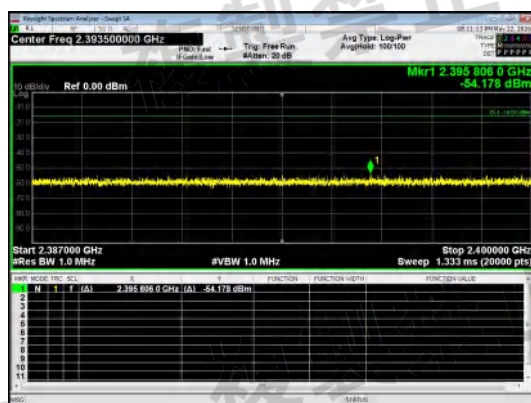
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1000 to 2387

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2387 to 2400

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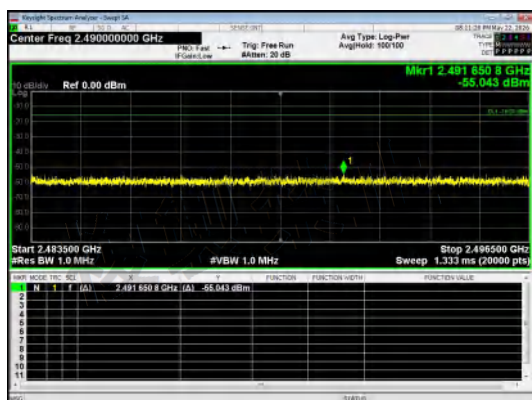
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E-mail: info@hdt-lab.com

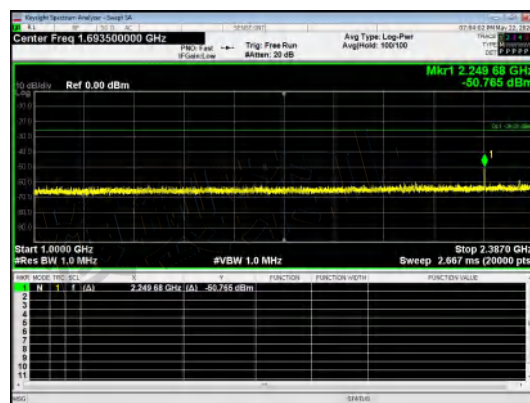
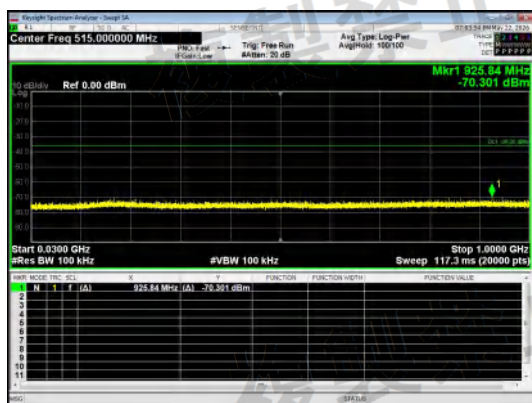
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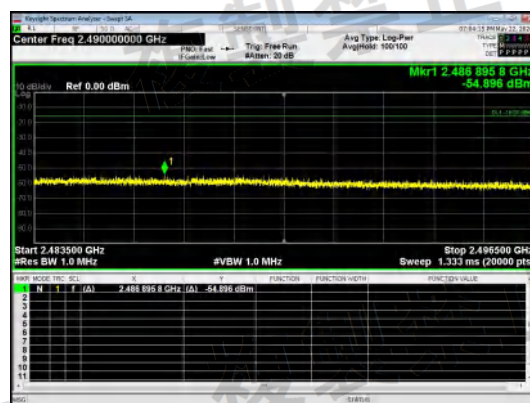
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30 to 1000
NT/NV_Antenna 1 π /4QPSK_2-DH5_Channel 39

1000 to 2387
NT/NV_Antenna 1 π /4QPSK_2-DH5_Channel 39



2387 to 2400
NT/NV_Antenna 1 π /4QPSK_2-DH5_Channel 39

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HD Testing Technology (GuangDong) Co., Ltd.

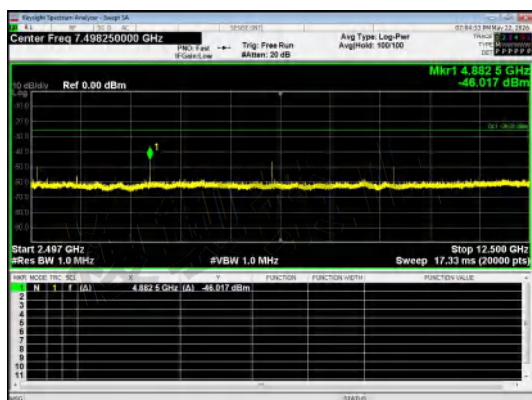
Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,
Dongguan, Guangdong, China

Tel: +86-0769-22221088

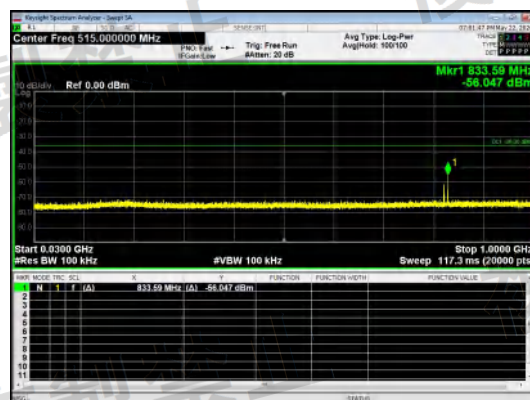
E-mail: info@hdt-lab.com

Website: www.hdt-lab.com

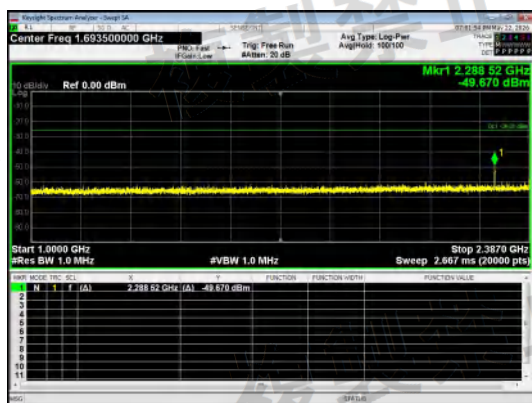
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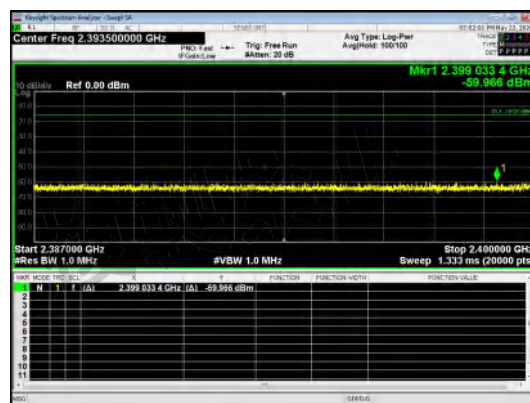
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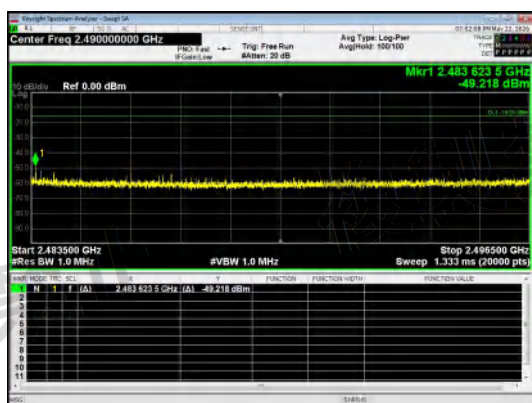
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2387 to 2400
NT/NV_Antenna 1 $\pi/4$ DQPSK_2-DH5_Channel 78



2483.5 to 2496.5
NT/NV_Antenna 1 $\pi/4$ DQPSK_2-DH5_Channel 78



2496.5 to 12500
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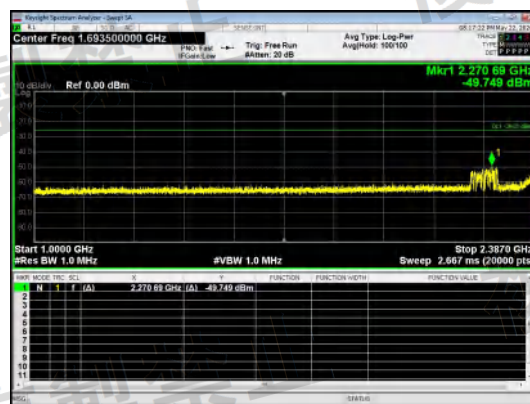
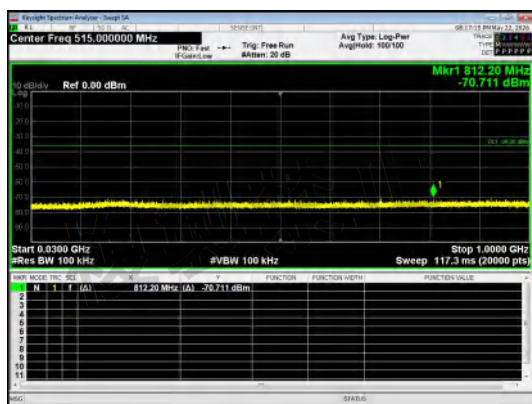
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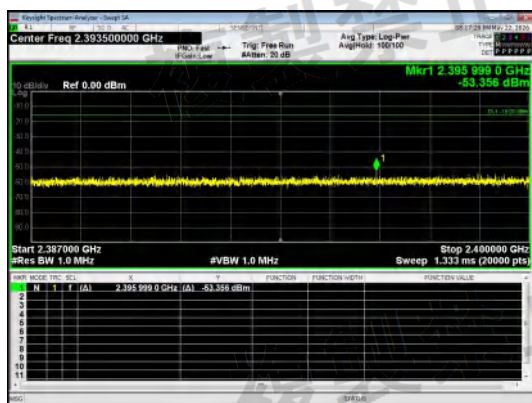
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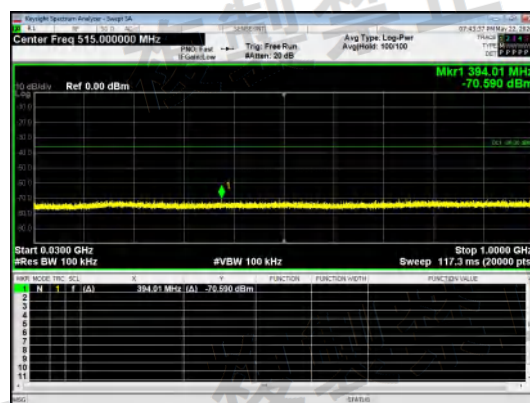
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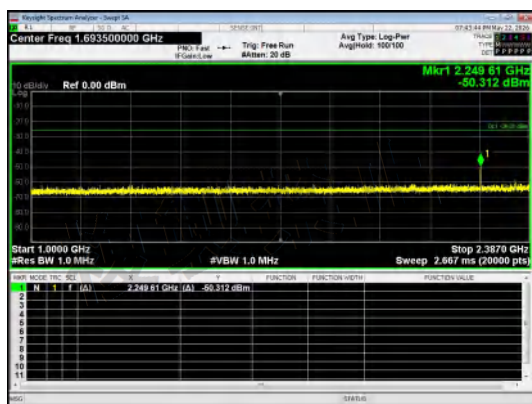
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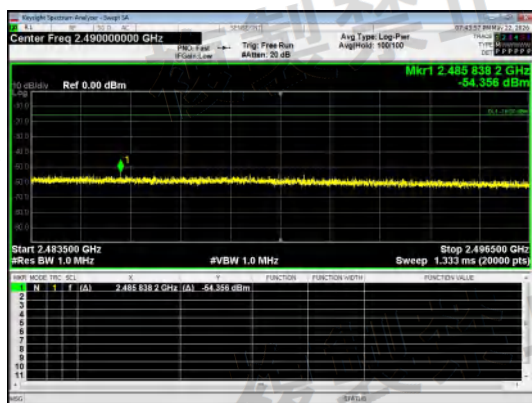
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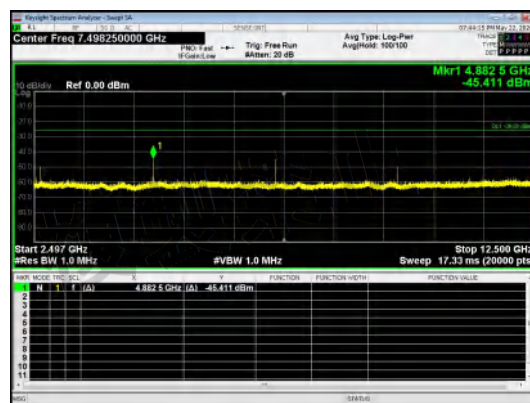
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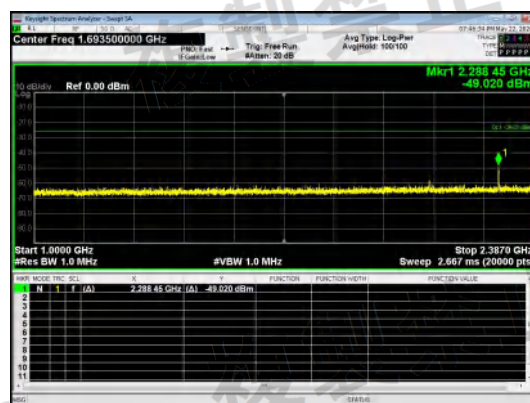
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30 to 1000

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1000 to 2387

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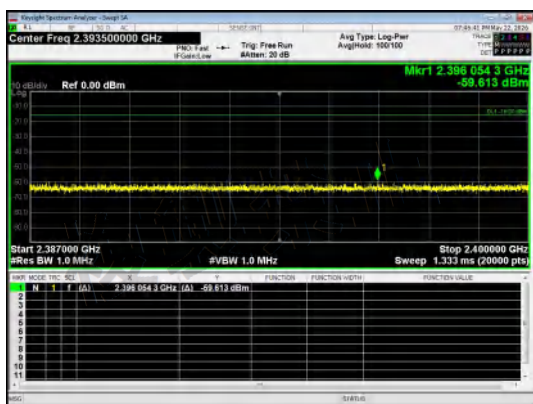
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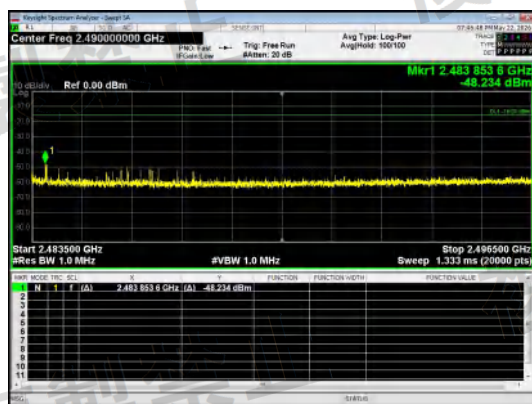
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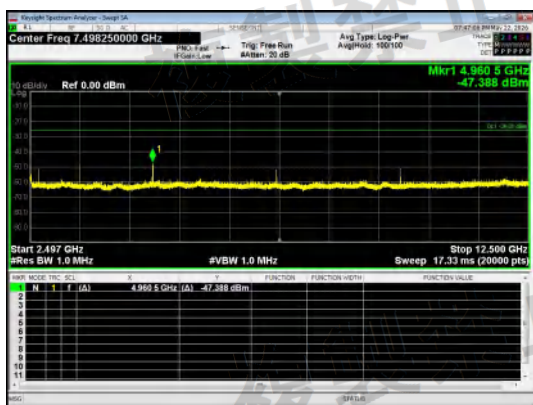
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2496.5 to 12500

NT/NV_Antenna 1_8DPSK_3-DH5_Channel 78

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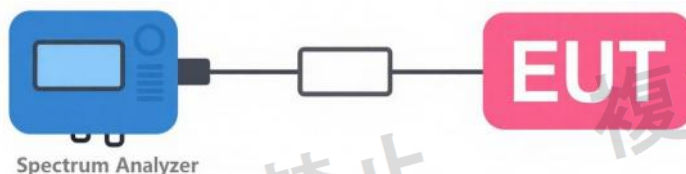
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7.4. SECONDARY SPURIOUS EMISSIONS

Test Requirement:	Article 2-1 Item 19	
Test Mode:	Transmitting mode with modulation	
Limit:	Frequency	Limit
	Below 1GHz	4nW/-54dBm
	Above 1GHz	20nW/-47dBm
Test Procedure:	Frequency = Below 1GHz(30MHz-1GHz) Above 1GHz(1-12.5GHz) RBW = 100kHz for Below 1GHz 1MHz for Above 1GHz VBW = 100kHz for Below 1GHz 1MHz for Above 1GHz Sweep Time = Auto Detector Mode = Peak Display Mode = Max Hold	
Test Result:	PASS	

7.4.1. Test Setup:



7.4.2. Test Result

Please refer to following table and plots.

HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

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Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Max Value (nW)	Limit (nW)	Verdict
NVNT	GFSK	2402	30- 1000	204.21	-84.462	0.00358	4	Pass
NVNT	GFSK	2402	1000-12500	3421.6	-61.639	0.68565	20	Pass
NVNT	GFSK	2441	30- 1000	923.7	-83.853	0.00412	4	Pass
NVNT	GFSK	2441	1000-12500	3402.4	-59.559	1.10688	20	Pass
NVNT	GFSK	2480	30- 1000	240.86	-83.406	0.00456	4	Pass
NVNT	GFSK	2480	1000-12500	3402.0	-65.180	0.30339	20	Pass
NVNT	$\pi/4$ DQPS	2402	30- 1000	862.14	-84.430	0.00361	4	Pass
NVNT	$\pi/4$ DQPS	2402	1000-12500	3425.8	-68.9	0.12882	20	Pass
NVNT	$\pi/4$ DQPS	2441	30- 1000	852.04	-84.825	0.00329	4	Pass
NVNT	$\pi/4$ DQPS	2441	1000-12500	3498.6	-65.728	0.26742	20	Pass
NVNT	$\pi/4$ DQPS	2480	30- 1000	748.94	-84.87	0.00326	4	Pass
NVNT	$\pi/4$ DQPS	2480	1000-12500	1757.1	-61.934	0.64062	20	Pass
NVNT	8DPSK	2402	30- 1000	851.99	-84.7183	0.00000	4	Pass
NVNT	8DPSK	2402	1000-12500	980.2	-70.963	0.08011	20	Pass
NVNT	8DPSK	2441	30- 1000	925.05	-84.678	0.00341	4	Pass
NVNT	8DPSK	2441	1000-12500	3471.0	-66.091	0.24598	20	Pass
NVNT	8DPSK	2480	30- 1000	927.4	-84.142	0.00385	4	Pass
NVNT	8DPSK	2480	1000-12500	11974.8	-70.907	0.08115	20	Pass

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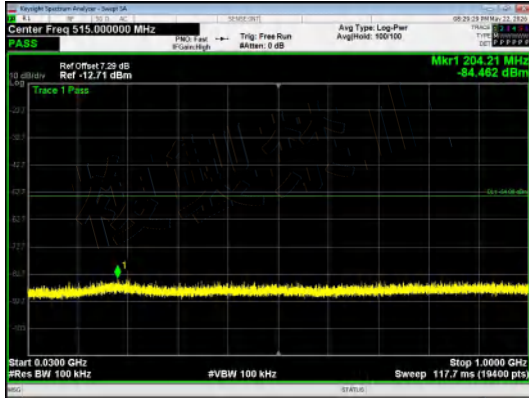
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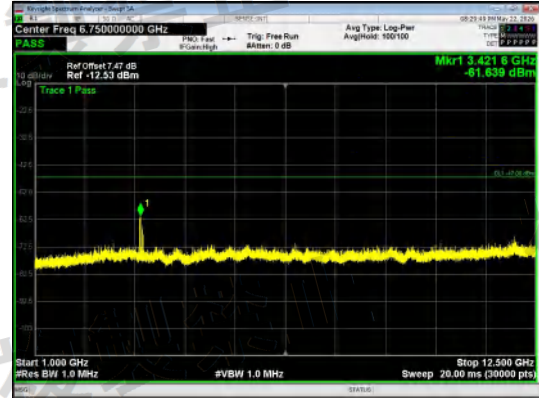
E-mail: info@hdt-lab.com

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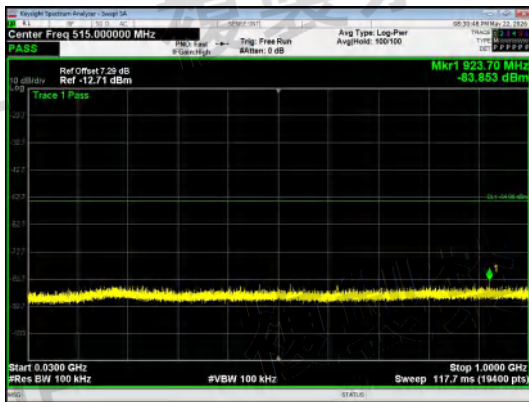
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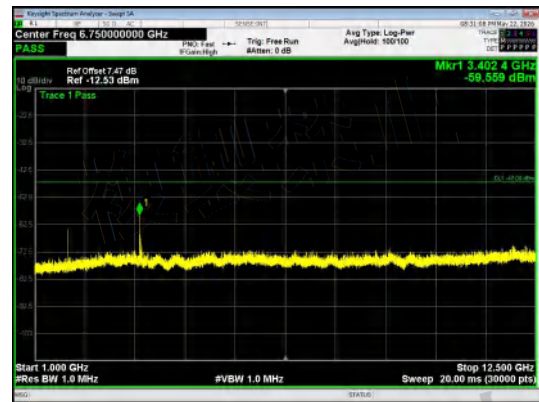
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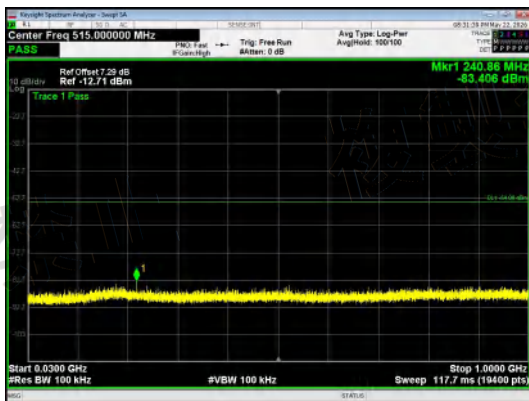
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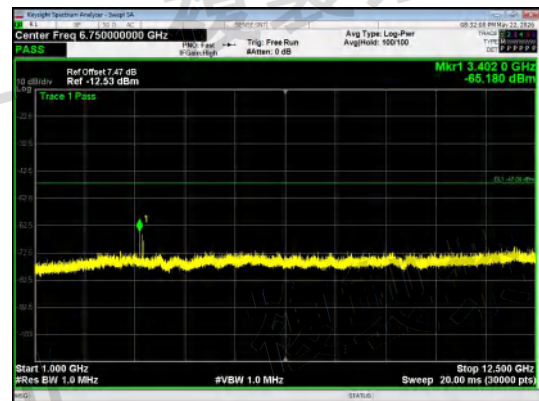
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30MHz - 1000MHz
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NT/NV_GFSK_DH5_Channel 78

HD Testing Technology (GuangDong) Co., Ltd.

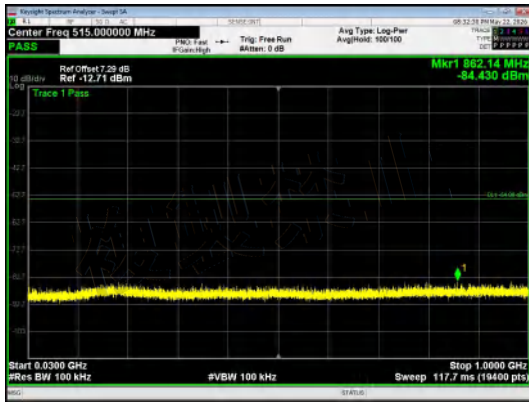
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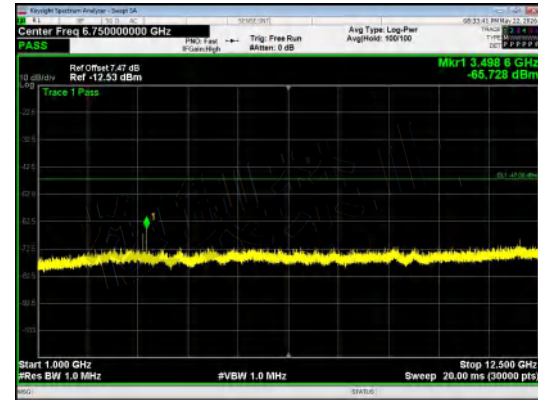
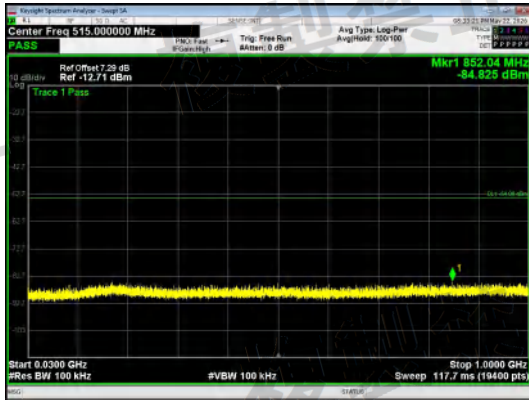
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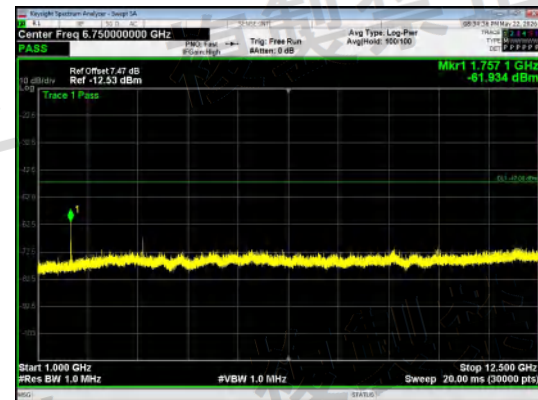
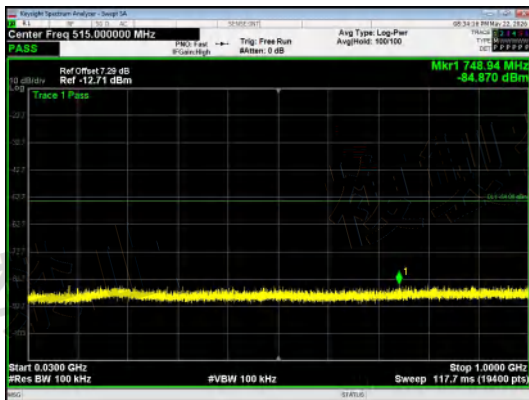
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30MHz - 1000MHz
NT/NV π /4DQPSK_2-DH5_Channel 78

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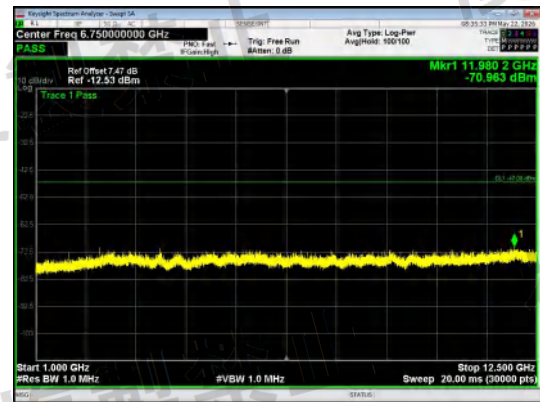
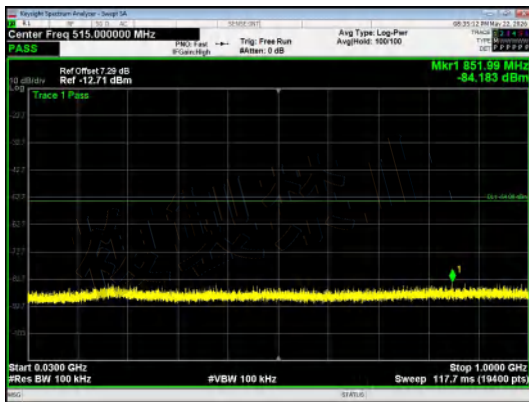
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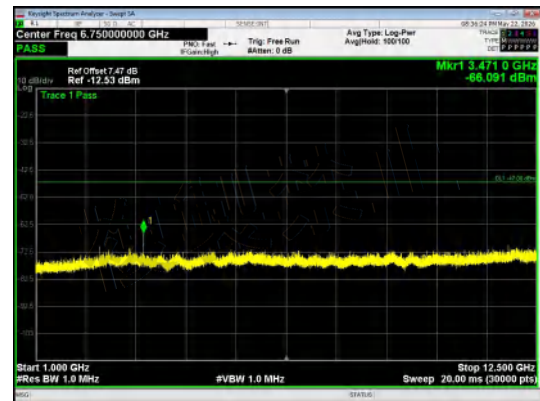
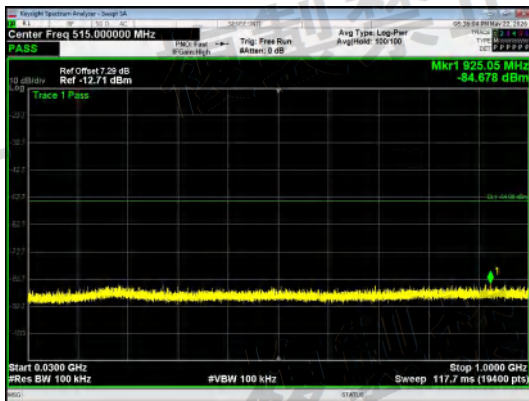
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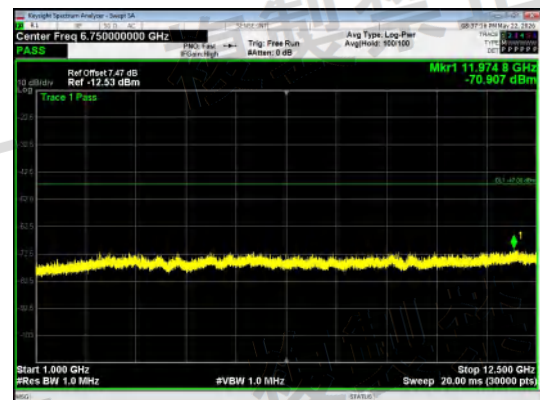
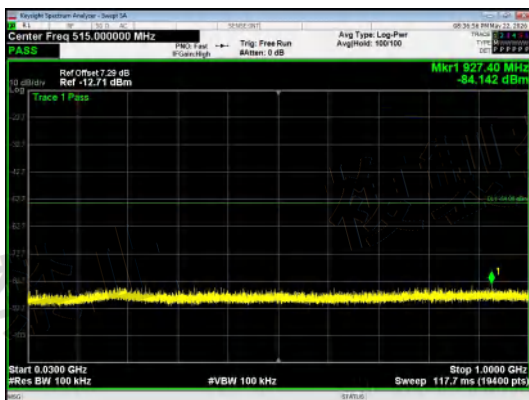
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> 1GHz
NT/NV_8DPSK_3-DH5_Channel 0



30MHz - 1000MHz
NT/NV_8DPSK_3-DH5_Channel 39

> 1GHz
NT/NV_8DPSK_3-DH5_Channel 39



30MHz - 1000MHz
NT/NV_8DPSK_3-DH5_Channel 78

> 1GHz
NT/NV_8DPSK_3-DH5_Channel 78

HD Testing Technology (GuangDong) Co., Ltd.

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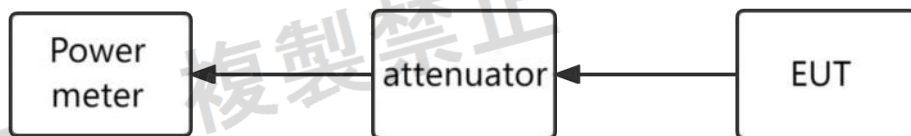
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7.5. ANTENNA POWER ERROR AND EIRP ANTENNA POWER

Test Requirement:	Article 2-1 Item 19	
Test Mode:	Transmitting mode with modulation	
Limit:	Item	Limit
	Antenna Power Density	$\leq 3 \text{ mW /MHz}$ (FHSS from 2400-2483.5 MHz) $\leq 10 \text{ mW/MHz}$ (OFDM, DSSS from 2400-2483.5 MHz) $\leq 10 \text{ mW}$ (Other method(Except FHSS & OFDM)from 2400-2483.5 MHz)
	Antenna Power Error	$\leq 20\%$
Test Procedure:	(a) Connect a high-frequency power meter to the output of the dummy load (attenuator) and measure the total power. (b) Divide the total power by the spread bandwidth to calculate the average power per 1 MHz.	
Test Result:	PASS	

7.5.1. Test Setup:



HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: info@hdt-lab.com

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7.5.2. Test Result

Please refer to following table.

Antenna Power

Test Condition	ANT1	Test Mode	Freq. (MHz)	Result (dBm)	Result (mW)	Spread bandwidth (MHz)	Result (mW/MHz)	Limit (mW/MHz)	declared Antenna Power (mW/MHz)	Tolerance (%)	Verdict
NTNV	ANT	DH5	Hop	20.34	108.1434	70.982	1.524	≤3	2	-23.8	PASS
		2DH5	Hop	20.68	116.9499	71.297	1.640	≤3	2	-18	PASS
		3DH5	Hop	20.72	118.0321	71.149	1.659	≤3	2	-17.1	PASS
	Note: Result [mW/MHz] = Result [mW] / Spread bandwidth [MHz] Tolerance +20%(Base on manufacturer declare Antenna Power Density)										

EIRP Power

Condition	Mode	Frequency (MHz)	Antenna Power (dBm/MHz)	Gain (dBi)	EIRP Power (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	DH5	Hop	1.830	1.7	3.530	6.91	Pass
NVNT	2DH5	Hop	2.148	1.7	3.848	6.91	Pass
NVNT	3DH5	Hop	2.198	1.7	3.898	6.91	Pass

Note:

1.Declared Power by manufacturer.

2.Antenna power tolerance(%)=(Antenna power-declared power)/declared power*100%

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7.6. INTERFERENCE PREVENTION FUNCTION

Test Requirement:	Article 9-4.5
Test Mode:	Transmitting mode with modulation
Limit:	According to Item 19 of Article 2 Paragraph 1. The device shall have the function of automatic transmission or reception of identification code.
Test Procedure:	- Set the EUT in the usual operation condition - The radio equipment with automatic transmitting function of identification code - Transmit the assigned identification code from the radio equipment. - Confirm the identification code received by the demodulator. - The radio equipment with automatic receiving function of identification code - Transmit the assigned identification code from the opposite equipment. - Confirm that the usual communication is available. - Transmit the identification code distinct from the assigned one from the opposite equipment. - Confirm that the radio equipment is stopped or an indication is displayed as the identification code is different. - The identification function shall be recorded with "Good" or "No".
Test Result:	Pass

7.6.1. Test Result

Test Item	Test Result	Verdict
Transmitting Function of Identification Code	The device have the function of automatic transmission or reception of identification code	Pass
Receiving Function of Identification Code	The device have the function of automatic transmission or reception of identification code	Pass

Mac address:5F:B3:E4:AF:35:2B

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Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

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7.7. FREQUENCY HOPPING DWELL TIME

Test Requirement:	Article 49-20
Test Mode:	Transmitting mode with modulation
Limit:	According to Item 19 of Article 2 Paragraph 1., frequency dwell time is 0.4 seconds or below.
Test Procedure:	1. Connect the UUT to the spectrum analyser and use the following settings: Center frequency: 2402MHz Span:Zero span RBW: 1MHz, VBW: 3MHz Log scale: 10dB/Div, Data points: 1001points Reference level: Enough level for maximum dynamic range Detection: Positive Peak, Sweep mode: Continuous Duty cycle= Ton/(Ton+Toff) 2. Make the following changes to the settings of the spectrum analyser: Center frequency: 2402MHz Span:Zero span RBW: 1MHz, VBW: 3MHz Reference level: Enough level for maximum dynamic range Detection: Positive Peak, Sweep mode: Continuous Sweep time:0.4s* Spreading Rate Dwell time = Time per one hopping (On time) * hopping numbers
Test Result:	Pass

7.7.1. Test setup



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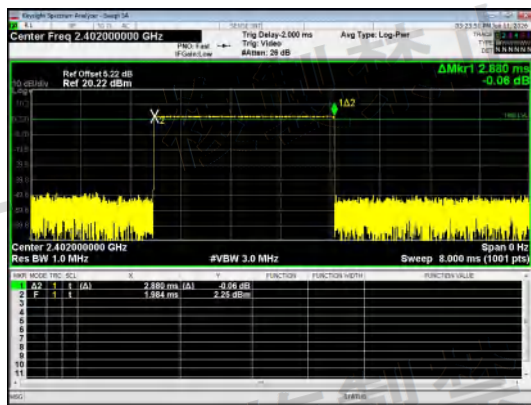
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7.7.2. Test Result

Please refer to following table.

Condition	Modulation	Mode	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Limit (ms)	Verdict
NVNT	GFSK	Hopping	Ant1	2.880	264.96	92	400	Pass
NVNT	$\pi/4$ DQPSK	Hopping	Ant1	2.880	288.0	100	400	Pass
NVNT	8DPSK	Hopping	Ant1	2.896	283.81	98	400	Pass



Pulse Width
GFSK_DH5



Number of Pulses
GFSK_DH5



Pulse Width
 $\pi/4$ DQPSK_2-DH5



Number of Pulses
 $\pi/4$ DQPSK_2-DH5

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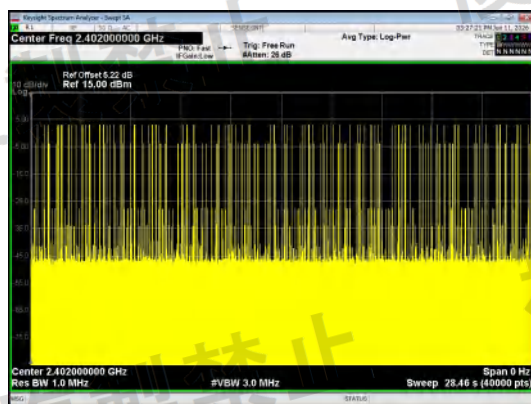
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Pulse Width
8DPSK_3-DH5



Number of Pulses
8DPSK_3-DH5

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Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,
Dongguan, Guangdong, China

Tel: +86-0769-22221088

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8. PHOTOGRAPHS OF TEST SET-UP

For photographs of the test set-up, refer to the appendix file.(Test Setup Photo)

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Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

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9. PHOTOGRAPHS OF THE EUT

For photographs of the EUT, refer to the appendix file(EUT External Photos and EUT Internal Photos).

*** End of Report ***

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