

FCC RADIO TEST REPORT

FCC ID: 2BN6E-4DKANKAN

Sample : 3D Capture System

Trade Mark : 4DKanKan

Main Model : 4DKanKan Minion

Additional Model : N/A

Report No. : UNIA25021408ER-61

Prepared for

Zhuhai 4DAGE Technology Co., Ltd. 2-101-2,Building 2,Tech Bay,NO.1 Jintang Road,Tangjiawan, High-Tech Zone,Zhuhai,China

Prepared by

Shenzhen United Testing Technology Co., Ltd.

D101&D401, No. 107, Kaicheng High-Tech Park, Taoyuan Community, Dalang Sub-District, Longhua District, Shenzhen, Guangdong, China

深圳市优耐检测技术有限公司 Shenzhen United Testing Technology Co.,Ltd.



TEST RESULT CERTIFICATION

Applicant	Zhuhai 4DAGE Technology Co., Ltd.
	2-101-2,Building 2,Tech Bay,NO.1 Jintang Road,Tangjiawan, High-Tech Zone,Zhuhai,China Zhuhai 4DAGE Technology Co., Ltd.
Address	2-101-2,Building 2,Tech Bay,NO.1 Jintang Road,Tangjiawan, High-Tech Zone,Zhuhai,China
Product description	
Product	3D Capture System
Trade Mark	4DKanKan
Model Name	4DKanKan Minion
Test Methods	FCC Rules and Regulations Part 15 Subpart C Section 15.249, ANSI C63.10: 2013

This device described above has been tested by Shenzhen United Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full, without the written approval, this document may be altered or revised by Shenzhen United Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

Date of Test

Date (s) of performance of tests	Feb. 27, 2025 ~ Apr. 02, 2025	
Date of Issue	Apr. 02, 2025	
Test Result	Pass	

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Page 3 of 41

Table of Contents	Pages
	, ¹
1 TEST SUMMARY	54
1.1 TEST PROCEDURES AND RESULTS	4
1.2 TEST FACILITY	5
1.3 MEASUREMENT UNCERTAINTY	6 🗸
0.1 ENVIRONMENTAL CONDITIONS	6
2 GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF EUT	7
2.2 CARRIER FREQUENCY OF CHANNELS	8
2.3 TEST MODE	8
2.4 TEST SETUP	9
2.5 EQUIPMENT USED IN TESTED SYSTEM	9
2.6 MEASUREMENT INSTRUMENTS LIST	10
3 CONDUCTED EMISSION	11
3.1 TEST LIMIT	11
3.2 TEST SETUP	11
3.3 TEST PROCEDURE	11
3.4 TEST RESULT	12
4 RADIATED EMISSION	15
4.1 TEST LIMIT	15
4.2 TEST SETUP	16
4.3 TEST PROCEDURE	17
4.4 TEST RESULT	17
5 BAND EDGE	29
5.1 TEST LIMIT	29
5.2 TEST SETUP	29
5.3 MEASUREMENT EQUIPMENT USED 5.4 TEST PROCEDURE	29
5.5 TEST RESULT	29 29
6 20dB BANDWIDTH	32 32
6.1 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION) 6.2 MEASUREMENT EQUIPMENT USED	32
6.3 TEST PROCEDURE	32
6.4 TEST RESULT	32
7 ANTENNA REQUIREMENT	39
8 PHOTO OF TEST	40
	40



Page 4 of 41

Table of Contents

Pages

1 TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

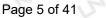
Item	FCC Rules	Description Of Test	Result
1	FCC Part 15.207	Conducted Emission	Pass
2	FCC Part 15.209/15.249	Radiated Emission	Pass
3	FCC Part 15.249/15.205	Band Edge	Pass
4	FCC Part 15.215	20dB Bandwidth	Pass
5	FCC Part 15.203	Antenna Requirement	Pass

Note:

"N/A" denotes test is not applicable in this Test Report.

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1.2 TEST FACILITY

Test Firm	-	Shenzhen United Testing Technology Co., Ltd.
Address	- 1	D101&D401, No. 107, Kaicheng High-Tech Park, Taoyuan Community,
		Dalang Sub-District, Longhua District, Shenzhen, Guangdong, China

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

A2LA Certificate Number: 4747.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 674885

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 31584

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.



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 %.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
	ANSI	9kHz ~ 150kHz	2.96	S
UNI ANSI	150kHz ~ 30MHz	2.44	-	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
4.	2	9kHz ~ 30MHz	2.50	5
UNI	ANSI	30MHz ~ 1000MHz	4.80	2
2		Above 1000MHz	4.13	

C. RF Conducted Method:

Item	Measurement Uncertainty
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_{c} = \pm 2 \%$

0.1 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35 °C
Relative Humidity:	30~60 %
Air Pressure:	950~1050 hPa



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

1 · · · ·	
Product:	3D Capture System
Trade Mark:	4DKanKan
Main Model:	4DKanKan Minion
Additional Model:	N/A
Model Difference:	N/A
FCC ID:	2BN6E-4DKANKAN
Operation Frequency:	2402MHz~2480MHz
Number of Channels:	79CH
Field Strength of Fundamental:	99.25dBuV/m(Peak)@3m
Modulation Type:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type:	External Antenna
Antenna Gain:	4.05dBi
Battery:	DC 14.52V
Adapter:	INPUT: 100-240VAC, 50/60Hz, 1.3A OUTPUT:19V- 4.74A
Power Source:	DC 19V from adapter or DC 14.52V from Li-battery
- 1992 Barriel	

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2.2 CARRIER FREQUENCY OF CHANNELS

			Char	nnel List			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	21	2423	42	2444	63	2465
01	2403	22	2424	43	2445	64	2466
02	2404	23	2425	44	2446	65	2467
03	2405	24	2426	45	2447	66	2468
04	2406	25	2427	46	2448	67	2469
05	2407	26	2428	47	2449	68	2470
06	2408	27	2429	48	2450	69	2471
07	2409	28	2430	49	2451	70	2472
08	2410	29	2431	50	2452	71	2473
09	2411	30	2432	51	2453	72	2474
10	2412	31	2433	52	2454	73	2475
11	2413	32	2434	53	2455	74	2476
12 🔪	2414	33	2435	54	2456	75	2477
13	2415	34	2436	55	2457	76	2478
14	2416	35	2437	56	2458	77	2479
15	2417	36	2438	57	2459	78	2480
16 💍	2418	37	2439	58	2460	5	3
17	2419	38	2440	59	2461	Si i	4
18	2420	39	2441	60	2462		
19	2421	40	2442	61	2463	12	5
20	2422	41	2443	62	2464	4.	in .

2.3 TEST MODE

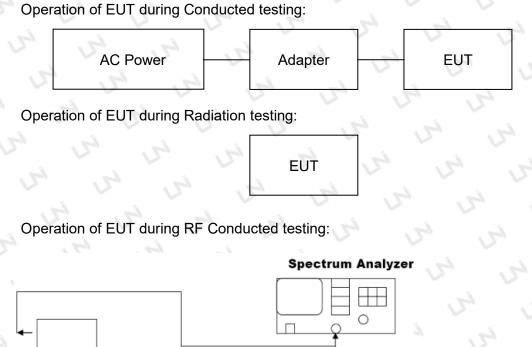
The EUT was programmed to be in continuously transmitting mode.

	Channel List	
Test Channel	EUT Channel	Test Frequency (MHz)
Low	CH00	2402
Middle	CH39	2441
High	CH78	2480

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2.4 TEST SETUP



EUT

RF Cable

2.5 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model/Type No.	Cable Length(m)	Note
<u> </u>	3D Capture System	4DKanKan Minion	· 2 · 2	EUT
2	Adapter	GST90A19	h h	AE

Note:

1. The support equipment was authorized by Declaration of Confirmation.

2. All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.



2.6 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until		
Ś	in 19.	Conduction Emissions Measurement					
1	Conducted Emission Test Software	EZ-EMC	Ver.CCS-3A1-CE	N/A	N/A		
2	AMN	Schwarzbeck	NNLK8121	8121370	2025.06.11		
3	AAN	TESEQ	T8-Cat6	38888	2025.06.11		
4	Pulse Limiter	CYBRTEK	EM5010	E115010056	2025.06.11		
5	EMI Test Receiver	Rohde&Schwarz	ESCI	101210	2025.06.11		
V		Radiated Emis	sions Measurement				
1	Radiated Emission Test Software	EZ-EMC	Ver.CCS-03A1	N/A	N/A		
2	Horn Antenna	Sunol	DRH-118	A101415	2025.07.14		
3	Broadband Hybrid Antenna	Sunol	JB1	A090215	2025.07.28		
4	PREAMP	HP	8449B	3008A00160	2025.06.11		
5	PREAMP	HPU	8447D	2944A07999	2025.06.11		
6	EMI TEST RECEIVER	Rohde&Schwarz	ESR3	101891	2025.06.11		
7	VECTOR Signal Generator	Rohde&Schwarz	SMU200A	101521	2025.06.11		
8	Signal Generator	Agilent	E4421B	MY4335105	2025.06.11		
9	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2025.06.11		
10	MXA Signal Analyzer	Keysight	N9020A	MY51110104	2025.06.11		
11	RF Power sensor	DARE	RPR3006W	15100041SNO88	2025.06.11		
12	RF Power sensor	DARE	RPR3006W	15100041SNO89	2025.06.11		
13	RF power divider	Anritsu	K241B	992289	2025.06.11		
14	Wideband radio communication tester	Rohde&Schwarz	CMW500	154987	2025.06.11		
15	Active Loop Antenna	Com-Power	AL-130R	10160009	2025.06.11		
16	Broadband Hybrid Antennas	Schwarzbeck	VULB9163	VULB9163#958	2025.09.22		
17	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1680	2025.07.14		
18	Horn Antenna	A-INFOMW	LB-180400-KF	J211060660	2025.07.14		
19	Microwave Broadband Preamplifier	Schwarzbeck	BBV 9721	100472	2025.09.22		
20	Signal Generator	Agilent	N5183A	MY47420153	2025.09.22		
21	Spctrum Analyzer	Rohde&Schwarz	FSP 40	100501	2025.09.22		
22	Power Meter	KEYSIGHT	N1911A	MY50520168	2025.09.22		
23	Frequency Meter	VICTOR	VC2000	997406086	2025.09.22		
24	DC Power Source	HYELEC	HY5020E	055161818	2025.09.22		

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3 CONDUCTED EMISSION

3.1 TEST LIMIT

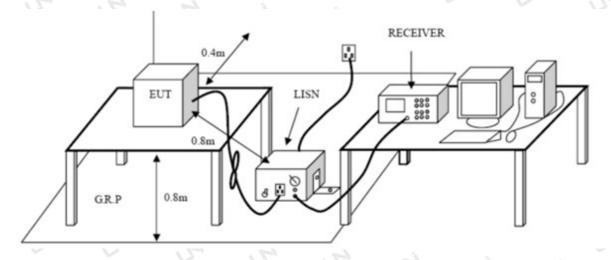
For unintentional device, according to § 15.207(a) Line Conducted Emission Limits is as following

6			a second	Start		
Frequency (MHz)	Maximum RF Line Voltage (dBμV)					
	CLA	SS A	CLASS B			
	Q.P.	Ave.	Q.P.	Ave.		
0.15~0.50	79	66	66~56*	56~46*		
0.50~5.00	73	60	56	46		
5.00~30.0	73	60	60	50		

* Decreasing linearly with the logarithm of the frequency.

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 TEST SETUP



3.3 TEST PROCEDURE

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is placed on a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

3.4 TEST RESULT

PASS

LNi

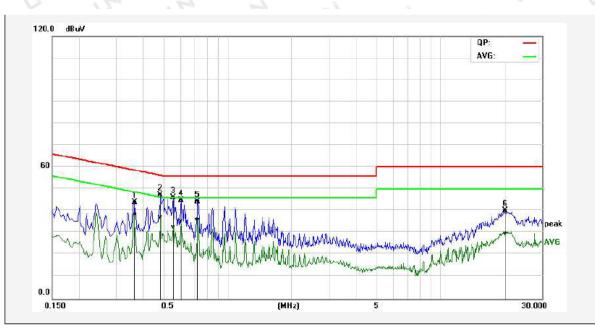
Remark:

- 1. All modes were tested at AC 120V and 240V, only the worst result of AC 120V was reported. 2. All modes were test at Low, Middle, and High channel, only the worst result of 8DPSK Middle Channel was reported.

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Page 13 of 41

Temperature:	24°C	Relative Humidity:	48%			
Test Date:	Mar. 08, 2025	Pressure:	1010hPa			
Test Voltage:	AC 120V, 60Hz Phase: Line					
est Mode: Transmitting mode of GFSK 2402MHz						



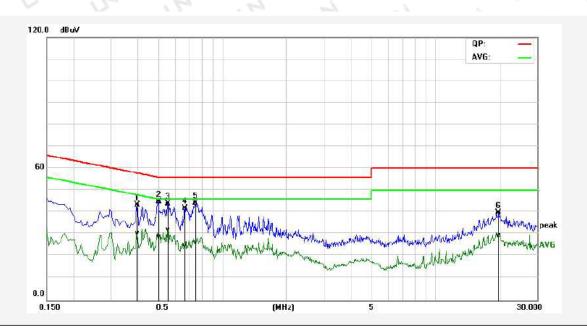
No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1P	0.3660	33.91	28.14	10.12	44.03	38.26	58.59	48.59	-14.56	-10.33	Pass
_	0.4860	37.22	27.03	10.09	47.31	37.12	56.24	46.24	-8.93	-9.12	Pass
ЗP	0.5580	35.96	22.52	10.08	46.04	32.60	56.00	46.00	-9.96	-13.40	Pass
4P	0.6060	34.70	25.15	10.07	44.77	35.22	56.00	46.00	-11.23	-10.78	Pass
5P	0.7260	34.17	25.75	10.10	44.27	35.85	56.00	46.00	-11.73	-10.15	Pass
6P	20.0780	29.41	18.82	10.75	40.16	29.57	60.00	50.00	-19.84	-20.43	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result - Limit.

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Page 14 of 41

Temperature:	24℃	Relative Humidity:	48%			
Test Date:	Mar. 08, 2025	Pressure:	1010hPa			
Test Voltage:	AC 120V, 60Hz Phase: Neutral					
Test Mode: Transmitting mode of GFSK 2402MHz						



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1P	0.3980	33.08	20.46	10.12	43.20	30.58	57.89	47.90	-14.69	-17.32	Pass
_	0.5020	34.83	19.00	10.08	44.91	29.08	56.00	46.00	-11.09	-16.92	Pass
ЗP	0.5580	33.99	21.85	10.08	44.07	31.93	56.00	46.00	-11.93	-14.07	Pass
4P	0.6700	31.73	14.64	10.09	41.82	24.73	56.00	46.00	-14.18	-21.27	Pass
5P	0.7500	34.11	15.99	10.11	44.22	26.10	56.00	46.00	-11.78	-19.90	Pass
6P	19.7979	29.02	18.83	10.73	39.75	29.56	60.00	50.00	-20.25	-20.44	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.

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4 RADIATED EMISSION

4.1 TEST LIMIT

For unintentional device, according to § 15.209(a), except for Class B digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

	1790 A			
Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F (kHz)	L-1	Quasi-peak	300
0.490MHz-1.705MHz	24000/F (kHz)	-	Quasi-peak	30
1.705MHz-30MHz	30	-	Quasi-peak	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
	500	54.0	Average	3
Above 1GHz	500	74.0	Peak	3

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

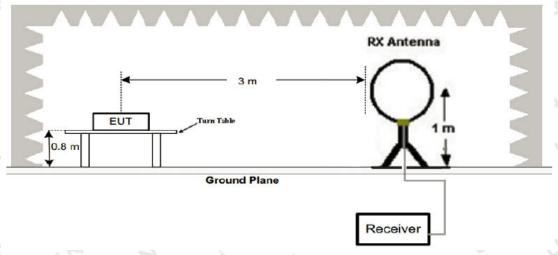
Limit: (Field strength of	the funda	amental	signal)	_

Frequency	Limit (dBuV/m @3m)	Remark
2400MHz-2483.5MHz	94.0	Average Value
	114.0	Peak Value

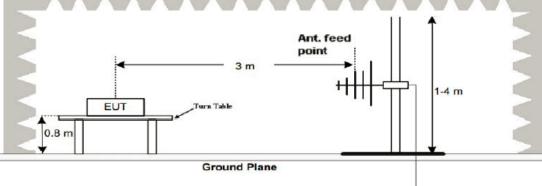


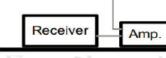
4.2 TEST SETUP

1. Radiated Emission Test-Up Frequency Below 30MHz

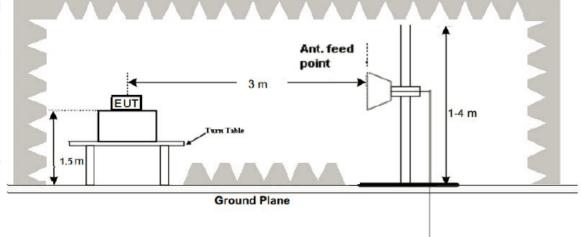


2. Radiated Emission Test-Up Frequency 30MHz~1GHz





3. Radiated Emission Test-Up Frequency Above 1GHz



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Receiver

Amp



4.3 TEST PROCEDURE

- 1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The test frequency range from 9kHz to 25GHz per FCC PART 15.33(a).
- Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 TEST RESULT

PASS

Remark:

- 1. All modes were test at Low, Middle, and High channel, only the worst result of 8DPSK Middle Channel was reported for below 1GHz test.
- 2. By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, and test data recorded in this report.
- 3. Radiated emission test from 9kHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9kHz to 30MHz and not recorded in this report.

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Below 1GHz Test Results:

Temperature:	24°C	Relative Humidity:	48%		
Test Date:	Mar. 08, 2025	Pressure:	1010hPa		
Test Voltage:	DC 14.52V	DC 14.52V Phase: Horizontal			
Test Mode:	Transmitting mode of GFSK 2402MHz				



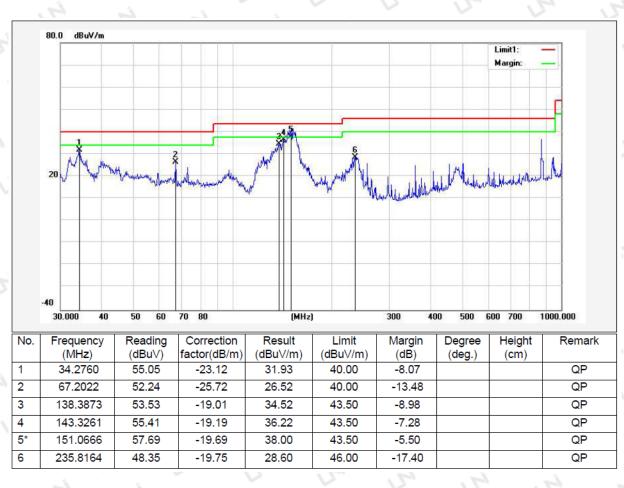
Remark: Result = Reading Level + Factor, Margin = Result– Limit Factor = Ant. Factor + Cable Loss – Pre-amplifier

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Page 19 of 41

Report No.: UNIA25021408ER-61

Temperature	04%0	Deletive Humidity	48%			
Temperature:	24°C	Relative Humidity:	40%			
Test Date:	Mar. 08, 2025	Pressure:	1010hPa			
Test Voltage:	age: DC 14.52V Phase: Vertical					
Test Mode:	Transmitting mode of GFSK 2402MHz					



Remark: Result = Reading Level + Factor, Margin = Result – Limit Factor = Ant. Factor + Cable Loss – Pre-amplifier

Remark:

- 1. Measuring frequencies from 9 kHz to the 1 GHz, Radiated emission test from 9kHz to 30MHzwas verified, and no any emission was found except system noise floor.
- 2. * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- 3. The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120kHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10kHz.

Above 1 GHz Test Results:

GFSK Modulation: CH00 (2402MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2402	105.09	-5.84	99.25	114	-14.75	PK
2402	85.11	-5.84	79.27	94	-14.73	AV
4804	57.25	-3.64	53.61	74	-20.39	PK
4804	37.17	-3.64	33.53	54	-20.47	AV
7206	54.39	-0.95	53.44	74	-20.56	PK
7206	34.65	-0.95	33.7	54	-20.3	AV
Remark: Fac	tor = Antenna	Factor + Cab	le Loss – Pre-ampl	ifier. Margin =	Emission L	evel – Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2402	104.27	-5.84	98.43	114	-15.57	PK
2402	85.25	-5.84	79.41	94	-14.59	AV
4804	57.27	-3.64	53.63	74	-20.37	PK
4804	36.19	-3.64	32.55	54	-21.45	AV
7206	54.35	-0.95	53.4	74	-20.6	PK 🗸
7206	34.15	-0.95	33.2	54	-20.8	AV
Remark: Fact	tor = Antenna	Factor + Cab	le Loss – Pre-ampl	ifier. Margin =	Emission L	evel – Limit

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5

CH39 (2441MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2441	104.27	-5.71	98.56	114	-15.44	PK
2441	84.22	-5.71	78.51	94	-15.49	AV
4882	57.21	-3.51	53.7	74	-20.3	PK
4882	37.15	-3.51	33.64	54	-20.36	AV
7323	54.32	-0.82	53.5	74	-20.5	PK
7323	34.19	-0.82	33.37	54	-20.63	AV

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2441	104.27	-5.71	98.56	114	-15.44	PK
2441	84.29	-5.71	78.58	94	-15.42	AV
4882	57.28	-3.51	53.77	74	-20.23	PK PK
4882	37.15	-3.51	33.64	54	-20.36	AV
7323	54.13	-0.82	53.31	74	-20.69	PK
7323	33.25	-0.82	32.43	54	-21.57	AV
Remark: Fac	tor = Antenna	Factor + Cab	le Loss – Pre-ampl	ifier. Margin =	Emission L	evel – Limit

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CH78 (2480MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2480	103.20	-5.65	97.55	114	-16.45	PK
2480	83.89	-5.65	78.24	94	-15.76	AV
4960	57.28	-3.43	53.85	74	-20.15	PK
4960	37.15	-3.43	33.72	54	-20.28	AV
7440	54.11	-0.75	53.36	74	-20.64	PK
7440	33.85	-0.75	33.1	54	-20.9	AV

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2480	103.42	-5.63	97.79	114	-16.21	PK
2480	83.82	-5.65	78.17	94	-15.83	AV
4960	57.57	-3.43	54.14	74	-19.86	PK
4960	37.15	-3.43	33.72	54	-20.28	AV
7440	54.17	-0.75	53.42	74	-20.58	PK
7440	33.87	-0.75	33.12	54	-20.88	AV

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π/4 DQPSK Modulation: CH00 (2402MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2402	104.42	-5.84	98.58	114	-15.42	PK
2402	84.82	-5.84	78.98	94	-15.02	AV
4804	56.52	-3.64	52.88	74	-21.12	PK
4804	37.15	-3.64	33.51	54	-20.49	AV
7206	54.15	-0.95	53.2	74	-20.8	PK
7206	33.86	-0.95	32.91	54	-21.09	AV

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2402	103.45	-5.84	97.61	114	-16.39	PK
2402	85.83	-5.84	79.99	94	-14.01	AV
4804	56.57	-3.64	52.93	74	-21.07	PK
4804	37.16	-3.64	33.52	54	-20.48	AV
7206	54.14	-0.95	53.19	74	-20.81	N PK
7206	33.86	-0.95	32.91	54	-21.09	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Emission Level – Limit

CH39 (2441MHz)

Horizontal:

Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
104.65	-5.71	98.94	114	-15.06	PK
84.89	-5.71	79.18	94	-14.82	AV
56.59	-3.51	53.08	74	-20.92	PK
38.16	-3.51	34.65	54	-19.35	AV
54.14	-0.82	53.32	74	-20.68	PK
33.66	-0.82	32.84	54	-21.16	AV
tor = Antenna	Factor + Cat	le Loss – Pre-ampl	ifier. Margin =	Emission L	evel – Limi
		5 5	6	12	1
	Result (dBµV) 104.65 84.89 56.59 38.16 54.14 33.66	ResultFactor(dBµV)(dB)104.65-5.7184.89-5.7156.59-3.5138.16-3.5154.14-0.8233.66-0.82	ResultFactorEmission Level(dBµV)(dB)(dBµV/m)104.65-5.7198.9484.89-5.7179.1856.59-3.5153.0838.16-3.5134.6554.14-0.8253.3233.66-0.8232.84	ResultFactorEmission LevelLimits(dBµV)(dB)(dBµV/m)(dBµV/m)104.65-5.7198.9411484.89-5.7179.189456.59-3.5153.087438.16-3.5134.655454.14-0.8253.327433.66-0.8232.8454	ResultFactorEmission LevelLimitsMargin(dBµV)(dB)(dBµV/m)(dBµV/m)(dB)104.65-5.7198.94114-15.0684.89-5.7179.1894-14.8256.59-3.5153.0874-20.9238.16-3.5134.6554-19.3554.14-0.8253.3274-20.68

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2441	103.59	-5.71	97.88	114	-16.12	PK
2441	83.84	-5.71	78.13	94	-15.87	AV
4882	56.54	-3.51	53.03	74	-20.97	PK PK
4882	38.16	-3.51	34.65	54	-19.35	AV
7323	54.11	-0.82	53.29	74	-20.71	PK
7323	33.55	-0.82	32.73	54	-21.27	AV
Remark: Fac	tor = Antenna	Factor + Cab	le Loss – Pre-ampl	ifier. Margin =	Emission L	evel – Limit

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CH78 (2480MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2480	103.55	-5.65	97.9	114	-16.1	PK
2480	83.84	-5.65	78.19	94	-15.81	AV
4960	57.56	-3.43	54.13	74	-19.87	PK
4960	39.18	-3.43	35.75	54	-18.25	AV
7440	55.16	-0.75	54.41	74	-19.59	PK
7440	34.54	-0.75	33.79	54	-20.21	AV

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2480	102.88	-5.63	97.25	114	-16.75	PK
2480	82.52	-5.65	76.87	94	-17.13	AV
4960	58.87	-3.43	55.44	74	-18.56	PK
4960	38.63	-3.43	35.2	54	-18.8	AV
7440	55.55	-0.75	54.8	74	-19.2	РК
7440	35.65	-0.75	34.9	54	-19.1	AV
Remark: Fac	tor = Antenna	Factor + Cab	le Loss – Pre-ampl	ifier. Margin =	Emission L	evel – Limit

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N

8DPSK Modulation: CH00 (2402MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2402	103.49	-5.84	97.65	114	-16.35	PK
2402	83.95	-5.84	78.11	94	-15.89	AV
4804	59.22	-3.64	55.58	74	-18.42	PK
4804	39.06	-3.64	35.42	54	-18.58	🔺 AV
7206	56.08	-0.95	55.13	74	-18.87	PK
7206	35.75	-0.95	34.8	54	-19.2	AV
Remark: Fac	tor = Antenna	Factor + Cab	le Loss – Pre-ampl	ifier. Margin =	Emission L	evel – Limit

5

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2402	103.15	-5.84	97.31	114	-16.69	PK
2402	83.9	-5.84	78.06	94	-15.94	AV
4804	59.22	-3.64	55.58	74	-18.42	PK
4804	38.92	-3.64	35.28	54	-18.72	AV
7206	55.96	-0.95	55.01	74	-18.99	PK
7206	35.46	-0.95	34.51	54	-19.49	AV
Remark: Fac	tor = Antenna	Factor + Cab	le Loss – Pre-ampl	ifier. Margin =	Emission L	evel – Limit

emark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Emission Level

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5

CH39 (2441MHz)

Horizontal:

and the second	5				15	100
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2441	103.59	-5.71	97.88	114	-16.12	PK
2441	83.23	-5.71	77.52	94	-16.48	AV
4882	59.49	-3.51	55.98	74	-18.02	PK
4882	39.45	-3.51	35.94	54	-18.06	AV
7323	56.35	-0.82	55.53	74	-18.47	PK
7323	36.56	-0.82	35.74	54	-18.26	AV

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2441	103.39	-5.71	97.68	114	-16.32	PK
2441	82.59	-5.71	76.88	94	-17.12	AV
4882	59.39	-3.51	55.88	74	-18.12	PK
4882	39.25	-3.51	35.74	54	-18.26	AV
7323	56.54	-0.82	55.72	74	-18.28	PK
7323	35.55	-0.82	34.73	54	-19.27	AV
Remark: Fac	tor = Antenna	Factor + Cab	le Loss – Pre-ampl	ifier. Margin =	Emission L	evel – Limi

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CH78 (2480MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2480	103.47	-5.65	97.82	114	-16.18	PK
2480	83.19	-5.65	77.54	94	-16.46	AV
4960	59.71	-3.43	56.28	74	-17.72	PK
4960	39.55	-3.43	36.12	54	-17.88	AV
7440	56.54	-0.75	55.79	74	-18.21	PK
7440	38.26	-0.75	37.51	54	-16.49	AV

/ertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2480	103.02	-5.63	97.39	114	-16.61	PK
2480	83.12	-5.65	77.47	94	-16.53	AV
4960	59.07	-3.43	55.64	74	-18.36	PK
4960	38.86	-3.43	35.43	54	-18.57	AV
7440	55.78	-0.75	55.03	74	-18.97	PK
7440	35.24	-0.75	34.49	54	-19.51	AV
Remark [·] Eac	tor = Antenna	Factor + Cab	le Loss – Pre-ampl	ifier Margin =	Emission I	evel – Limit

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Emission Level – Limit

Remark:

- 1. Measuring frequencies from 1 GHz to the 25 GHz.
- 2. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- 3. * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- 4. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120kHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10kHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 6. When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- 7. For fundamental frequency, RBW>20dB Bandwidth, VBW>=3*RBW, Peak detector for PK value, RMS detector for AV value.

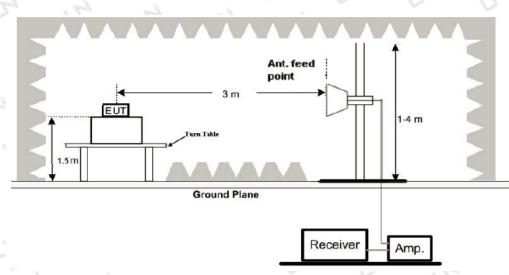


5 BAND EDGE

5.1 TEST LIMIT

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 TEST SETUP



5.3 MEASUREMENT EQUIPMENT USED

Refer to Section 2.6.

5.4 TEST PROCEDURE

- The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode. The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc.
- Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO (b) AVERAGE: RBW=1MHz ; VBW=3MHz / Sweep=AUTO

5.5 TEST RESULT

PASS

Remark: All modes of were tested, only the worst result of 8DPSK was reported.



Operation Mode: TX CH00 (2402MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	56.67	-5.81	50.86	74	-23.14	PK
2310	1	-5.81		54	A	AV
2390	57.15	-5.84	51.31	74	-22.69	PK
2390	51.12	-5.84	1	54	1	AV
2400	57.44	-5.84	51.6	74	-22.4	PK
2400	/ \	-5.84	15	54	1	AV

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	56.59	-5.81	50.78	74	-23.22	PK
2310		-5.81	51 1	54	1	AV
2390	56.97	-5.84	51.13	74	-22.87	PK
2390	1	-5.84	1	54	51	AV
2400	57.15	-5.84	51.31	74	-22.69	PK
2400	15	-5.84	/	54		AV
Remark: Facto	or = Antenna Fact	or + Cable L	oss – Pre-amplifi	er.	5.	in a

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Operation Mode: TX CH39 (2480MHz)

Horizontal:

- 1			6-7		S	
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	55.59	-5.65	49.94	74	-24.06	PK
2483.5	2 12	-5.65	1	54	\sim	AV
2500	56.52	-5.72	50.8	74	-23.2	PK
2500		-5.72	T	54	21	AV
		S		- I		

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

	1						
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
2483.5	57.63	-5.65	51.98	74	-22.02	У РК	
2483.5		-5.65		54	F	AV	
2500	56.82	-5.72	51.1	74	-22.9	PK	
2500	515	-5.72		54	1	AV	
Remark: Fac	Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier						

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

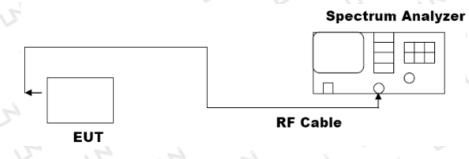
Note:

1. Since the peak value is less than the average limit, the average value does not reflected in the report.



6 20dB BANDWIDTH

6.1 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)



6.2 MEASUREMENT EQUIPMENT USED

Refer to Section 3.3.

6.3 TEST PROCEDURE

- 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.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 30 kHz. Set the Video bandwidth (VBW) = 100 kHz. In order to make an accurate measurement.
- 4. For 20dB Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
- 5. Measure and record the results in the test report.

6.4 TEST RESULT

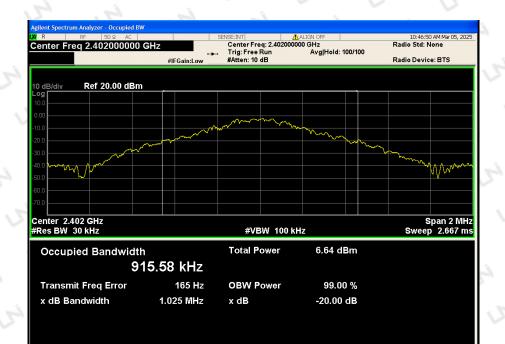
PASS



GFSK Modulation:

Channel	Frequency (MHz)	20dB Bandwidth (MHz)	Result
CH00	2402	1.025	PASS
CH39	2441	0.961	PASS
CH78	2480	1.030	PASS

CH00: 2402MHz



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D101& D401, No.107, Kaicheng High-Tech Park, Taoyuan Community, Dalang Sub-District, Longhua District, Shenzhen, Guangdong, China 广东省深圳市龙华区大浪街道陶元社区凯诚高新园107(D101/D401) (PC.518109) Tel: +86-755-8618 0996 UNITED TESTING



CH39: 2441MHz



CH78: 2480MHz



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$\pi/4$ DQPSK Modulation:

Channel	Frequency (MHz)	20dB Bandwidth (MHz)	Result
CH00	2402	1.392	PASS
CH39	2441	1.385	PASS
CH78	2480	1.394	PASS

Page 35 of 41

CH00: 2402MHz



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CH39: 2441MHz



CH78: 2480MHz



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8DPSK Modulation:

Channel	Frequency (MHz)	20dB Bandwidth (MHz)	Result
CH00	2402	1.373	PASS
CH39	2441	1.376	PASS
CH78	2480	1.382	PASS

CH00: 2402MHz



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CH39: 2441MHz



CH78: 2480MHz



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7 ANTENNA REQUIREMENT

Standard Applicable:

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Connected Construction

The antenna used in this product is a External Antenna, The directional gains of antenna used for transmitting is 4.05dBi.

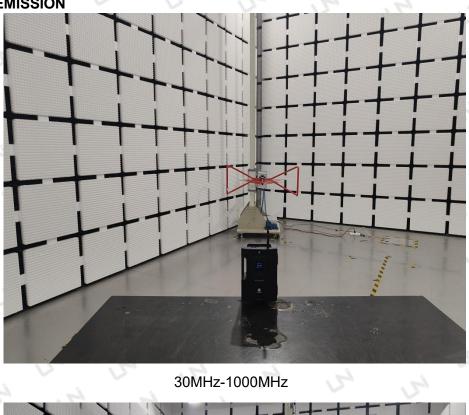
ANTENNA:



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8 PHOTO OF TEST RADIATED EMISSION





Above 1GHz

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CONDUCTED EMISSION



RF CONDUCTED



End of Report

深圳市优耐检测技术有限公司 Shenzhen United Testing Technology Co.,Ltd.