

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

TEST REPORT FCC Rules and Regulations Part PART 15.249

Report Reference No...... CTA24042201101

FCC ID...... 2A4WG-ZAT-M8

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Date of issue...... May. 16, 2024

Testing Laboratory Name Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,

Fuhai Street, Bao'an District, Shenzhen, China

CTATESTIN'

Applicant's name...... Shenzhen Zhuoaite Electronics Co., Ltd.

Bao'an District, China

Standard FCC Rules and Regulations Part PART 15.249

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Test item description Controller

Trade MarkN/A

Manufacturer Shenzhen Zhuoaite Electronics Co., Ltd.

Model/Type reference......ZAT-M8

Listed ModelsZAT-M8A, ZAT-M8B, ZAT-M8C, ZAT-M8D

Modulation GFSK

Frequency......2438MHz

Ratings DC 3.0V From Battery

Result.....PASS

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TEST REPORT

Equipment under Test Controller

ZAT-M8 Model /Type

ZAT-M8A, ZAT-M8B, ZAT-M8C, ZAT-M8D Listed Models

Applicant Shenzhen Zhuoaite Electronics Co., Ltd.

Address 5/F, No.5, Hengkeng Industrial Park Shichang Road, Lezhujiao, Bao'an

District, China

Manufacturer Shenzhen Zhuoaite Electronics Co., Ltd.

CTATESTING 5/F, No.5, Hengkeng Industrial Park Shichang Road, Lezhujiao, Bao'an CTA TESTING Address

District, China

CTATES			
	CTATE	ESTING	
Test	: Result:	PASS	

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test ..da laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15.249: Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz, 5725 - 5875 MHz. and 24.0 - 24.25 GHz.

ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

ANSI C63.4: 2014: –American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz Range of 9 kHz to 40GHz

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2. SUMMARY

2.1. General Remarks

2.1. General Remarks			
Date of receipt of test sample		May. 07, 2024	ESTING
Testing commenced on		May. 07, 2024	CTATE
Testing concluded on	:	May. 16, 2024	

2.2. Product Description

Product Name:	Controller
Model/Type reference:	ZAT-M8
Power Rating	DC 3.0V From Battery
Sample ID:	CTA240422011-1#(Engineer sample)
Sample 1D.	CTA240422011-2#(Normal sample)
Operation frequency	2438MHz
Modulation	GFSK
Antenna Type	PCB antenna
Antenna Gain	0.68

2.3. Equipment Under Power supply system	CTATES.		
Power supply voltage	○ 230V / 50 Hz	○ 120V / 60Hz	
	○ 12 V DC	O 24 V DC	
	Other (specified in	blank below)	Ara

2.4. Short description of the Equipment under Test (EUT)

This is a Controller

For more details, refer to the user's manual of the EUT.

2.5. EUT operation mode

The Applicant use Key to control the EUT for staying in continuous transmitting and receiving mode for testing .There is 1 channels provided to the EUT. Channel 1 was selected to test.

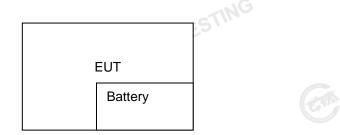
Channel	Frequency (MHz)
01	2438

Test frequency:

01	2438	
CAN CHI		ESTIN
Channel	Frequency (MHz)	
01	2438	

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Block Diagram of Test Setup 2.6. CTATES



Modifications

2.7. No modifications were implemented to meet testing criteria. CTATESTING

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Baoʻan District, Shenzhen, China

3.2. Test Facility

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

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

Industry Canada Registration Number. Is: 27890 CAB identifier: CN0127

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3. Environmental conditions

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

Radiated Emission:

Temperature:	23 ° C
Humidity:	48 %
NG	
Atmospheric pressure:	950-1050mbar

AC Main Conducted testing:

9	
Temperature:	24 ° C
CI	
Humidity:	45 %
75000	C
Atmospheric pressure:	950-1050mbar

Conducted testing:

conducted testing:	
Temperature:	24 ° C
Humidity:	45 %
55711	
Atmospheric pressure:	950-1050mbar
CII	CTA TESTING

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3.4. Summary of measurement results

FCC PART 15.249		
FCC Part 15.249(a)	Field Strength of Fundamental	PASS
FCC Part 15.209	Spurious Emission	PASS
FCC Part 15.209	Band edge	PASS
FCC Part 15.215(c)	20dB bandwidth	PASS
FCC Part 15.207	Conducted Emission	N/A
FCC Part 15.203	Antenna Requirement	PASS

3.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd.:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.02 dB	(1)
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
Power spectral density	/	0.57 dB	(1)
Spectrum bandwidth	/	1.1%	(1)
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)

CTATESTING (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



3.6. Equipments Used during the Test

	Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
	LISN	R&S	ENV216	CTA-308	2022/08/03	2023/08/02
	LISN	R&S	ENV216	CTA-314	2022/08/03	2023/08/02
	EMI Test Receiver	R&S	ESPI	CTA-307	2022/08/03	2023/08/02
	EMI Test Receiver	R&S	ESCI	CTA-306	2022/08/03	2023/08/02
	Spectrum Analyzer	Agilent	N9020A	CTA-301	2022/08/03	2023/08/02
TE	Spectrum Analyzer	R&S	FSP	CTA-337	2022/08/03	2023/08/02
	Vector Signal generator	Agilent	N5182A	CTA-305	2022/08/03	2023/08/02
	Analog Signal Generator	R&S	SML03	CTA-304	2022/08/03	2023/08/02
	Universal Radio Communication	CMW500	R&S	CTA-302	2022/08/03	2023/08/02
	Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2022/08/03	2023/08/02
	Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/10/17	2024/10/16
	Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2024/10/12
	Loop Antenna	Zhinan	ZN30900C	CTA-311	2023/10/17	2024/10/16
	Horn Antenna	Beijing Hangwei Dayang	OBH100400	CTA-336	2021/08/07	2024/08/06
	Amplifier	Schwarzbeck	BBV 9745	CTA-312	2022/08/03	2023/08/02
	Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2022/08/03	2023/08/02
	Directional coupler	NARDA	4226-10	CTA-303	2022/08/03	2023/08/02
ATE	High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2022/08/03	2023/08/02
	High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2022/08/03	2023/08/02
	Automated filter bank	Tonscend	JS0806-F	CTA-404	2022/08/03	2023/08/02
	Power Sensor	Agilent	U2021XA	CTA-405	2022/08/03	2023/08/02
	Amplifier	Schwarzbeck	BBV9719	CTA-406	2022/08/03	2023/08/02
	- 4	G		Version	Calibration	Calibration

Test Equipment	Manufacturer	Model No.	Version number	Calibration Date	Calibration Due Date
EMI Test Software	Tonscend	TS®JS32-RE	5.0.0.2	N/A	N/A
EMI Test Software	Tonscend	TS®JS32-CE	5.0.0.1	N/A	N/A
RF Test Software	Tonscend	TS®JS1120-3	3.1.65	N/A	N/A
RF Test Software	Tonscend	TS®JS1120	3.1.46	N/A	N/A

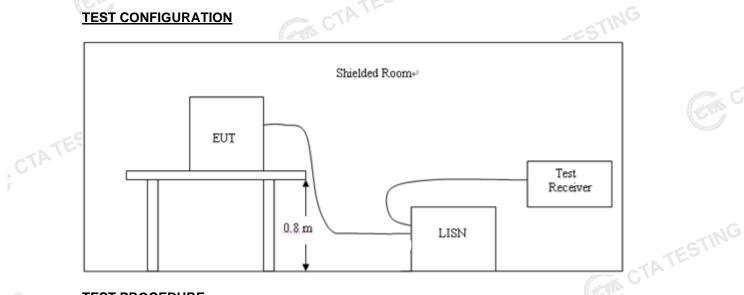
CTATESTING

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4. TEST CONDITIONS AND RESULTS

4.1. AC Power Conducted Emission

TEST CONFIGURATION



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 a tabletop system, 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 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.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

Fraguency range (MHz)	Limit (dBuV)				
Frequency range (MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
* Decreases with the logarithm of the freque	ency.	(2) US			

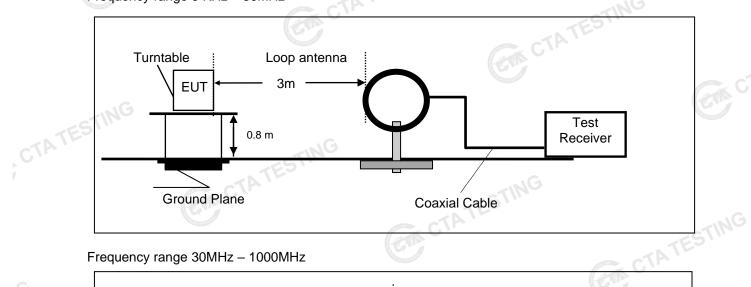
TEST RESULTS

The EUT is powered by the Battery, So this test item is not applicable for the EUT. CTATESTING Report No.: CTA24042201101 Page 11 of 26

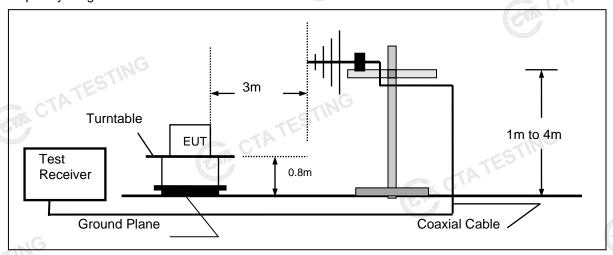
4.2. Radiated Emission and Band Edges

TEST CONFIGURATION

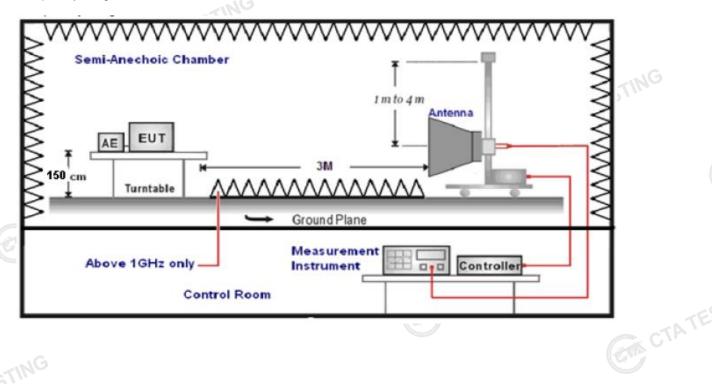
Frequency range 9 KHz - 30MHz



Frequency range 30MHz - 1000MHz



Frequency range above 1GHz-25GHz



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TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz -25GHz.
- Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed.
- The EUT minimum operation frequency was 26MHz and maximum operation frequency was 1910MHz.so radiated emission test frequency band from 9KHz to 25GHz.
- 6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

	~711
Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	Carl C

Transd=AF +CL-AG

RADIATION LIMIT

According 15.249, the field strength of emissions from intentional radiators operated within 2400MHz-2483.5 MHz shall not exceed 94dBµV/m (50mV/m):

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.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply CTATES with the radiated emission limits specified in §15.209(a)

Radiated emission limits

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)	
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)	
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)	
1.705-30	3	20log(30)+ 40log(30/3)	30	
30-88	3	40.0	100	
88-216	3 (1)	43.5	150	
216-960	3	46.0	200	
Above 960	3	54.0	500	
TEST RESULTS Remark:			CIN C	TAIL

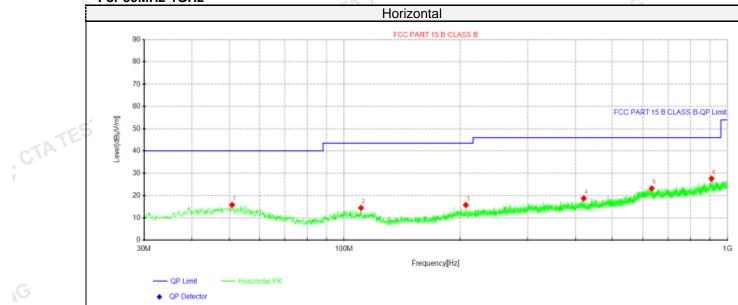
Remark: CTATESTING

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- This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
- 2. Both modes of GFSK were tested at Low, Middle, and High channel and recorded worst mode at GFSK
- Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

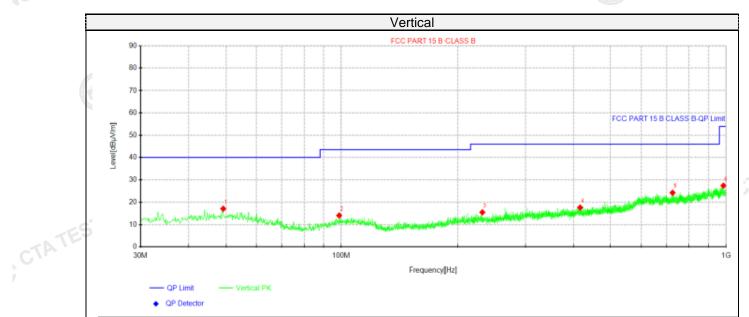
For 30MHz-1GHz



Suspe	ected Data	List							
NO	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Delevite
NO.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	50.855	27.27	15.74	-11.53	40.00	24.26	100	337	Horizontal
2	110.51	28.08	14.35	-13.73	43.50	29.15	100	256	Horizontal
3	206.903	28.92	15.68	-13.24	43.50	27.82	100	0	Horizontal
4	420.425	28.98	18.69	-10.29	46.00	27.31	100	279	Horizontal
5	633.34	28.40	23.18	-5.22	46.00	22.82	100	357	Horizontal
6	907.243	29.89	27.66	-2.23	46.00	18.34	100	0	Horizontal
lote:1).Level (dBµV/m)= Reading (dBµV)+ Factor (dB/m)). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)									
3). Març	gin(dB) = L	.imit (dBµV/n	n) - Level (c	dΒμV/m)					To nest think

3). Margin(dB) = Limit (dB μ V/m) - Level (dB μ V/m) CTA TESTING

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Suspe	Suspected Data List										
NO.	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Dolosita		
NO.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	49.1575	28.50	17.01	-11.49	40.00	22.99	100	46	Vertical		
2	98.7488	27.56	13.95	-13.61	43.50	29.55	100	91	Vertical		
3	231.881	28.29	15.38	-12.91	46.00	30.62	100	138	Vertical		
4	416.181	27.86	17.53	-10.33	46.00	28.47	100	103	Vertical		
5	725.611	29.31	24.25	-5.06	46.00	21.75	100	150	Vertical		
6	983.873	28.84	27.46	-1.38	54.00	26.54	100	115	Vertical		

Note:1).Level ($dB\mu V/m$)= Reading ($dB\mu V$)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dB μ V/m) - Level (dB μ V/m)

CTATESTING

CTATEST

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For 1GHz to 25GHz

GFSK (above 1GHz)

Frequency(MHz):			2438		Polarity:		HORIZONTAL		
Frequency (MHz)	Emis Le (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2438.00	97.98	PK	114.00	16.02	109.23	27.52	3.45	42.22	-11.25
2438.00	79.30	AV	94.00	14.70	90.55	27.52	3.45	42.22	-11.25
4876.00	51.32	PK	74.00	22.68	55.20	32.6	5.34	41.82	-3.88
4876.00	45.96	AV	54.00	8.04	49.84	32.6	5.34	41.82	-3.88
7314.00	49.34	PK	74.00	24.66	49.45	36.8	6.81	43.72	-0.11
7314.00	39.92	AV	54.00	14.08	40.03	36.8	6.81	43.72	-0.11

Frequency(MHz):			2438		Polarity:		VERTICAL		
Frequency (MHz)	Emis Lev (dBu		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2438.00	96.09	PK	114.00	17.91	107.34	27.52	3.45	42.22	-11.25
2438.00	77.85	AV	94.00	16.15	89.10	27.52	3.45	42.22	-11.25
4876.00	49.44	PK	74.00	24.56	53.32	32.6	5.34	41.82	-3.88
4876.00	43.37	AV	54.00	10.63	47.25	32.6	5.34	41.82	-3.88
7314.00	46.79	PK	74.00	27.21	46.90	36.8	6.81	43.72	-0.11
7314.00	37.09	AV	54.00	16.91	37.20	36.8	6.81	43.72	-0.11

REMARKS:

- Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)- Pre-amplifier
- Margin value = Limit value- Emission level.
- -- Mean the PK detector measured value is below average limit. lir در imit. د.
- 5. The other emission levels were very low against the limit.

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Results of Band Edges Test (Radiated)

Freque	ncy(MHz)	:	24	38	Polarity:		HORIZONTAL		
Frequency (MHz)	Le	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390.00	61.60	PK	74	12.40	72.02	27.42	4.31	42.15	-10.42
2390.00	43.44	AV	54	10.56	53.86	27.42	4.31	42.15	-10.42
Freque	ncy(MHz)	:	24	38	Pola	rity:		VERTICAL	
Frequency (MHz)	Le	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390.00	59.88	PK	74	14.12	70.30	27.42	4.31	42.15	-10.42
2390.00	41.28	AV	54	12.72	51.70	27.42	4.31	42.15	-10.42

Freque	Frequency(MHz):		2438		Polarity:		HORIZONTAL		
Frequency (MHz)	Le	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50	61.16	PK	74	12.84	71.27	27.7	4.47	42.28	-10.11
2483.50	43.89	AV	54	10.11	54.00	27.7	4.47	42.28	-10.11
Frequency(MHz):		2438		Polarity:		VERTICAL			
Frequency (MHz)	Le	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50	58.52	PK	74	15.48	68.63	27.7	4.47	42.28	-10.11
2483.50	41.36	AV	54	12.64	51.47	27.7	4.47	42.28	-10.11

Note:

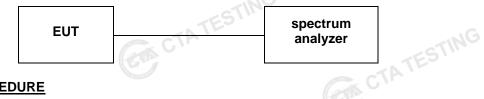
- 1) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 2) Margin value = Limits-Emission level.
- 3) -- Mean the PK detector measured value is below average limit.
- 4) The other emission levels were very low against the limit.
- 5) RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.



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4.3. 20dB Bandwidth Measurement

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with across the course and the course analyzer with across the course and across the course analyzer with across the course analyzer with across the course analyzer with across the course and across the course analyzer with a course and across the course and across the course analyzer with a course and across the course analyzer with a course and across the course analyzer with a course and across the course analyzer with a course and across the course

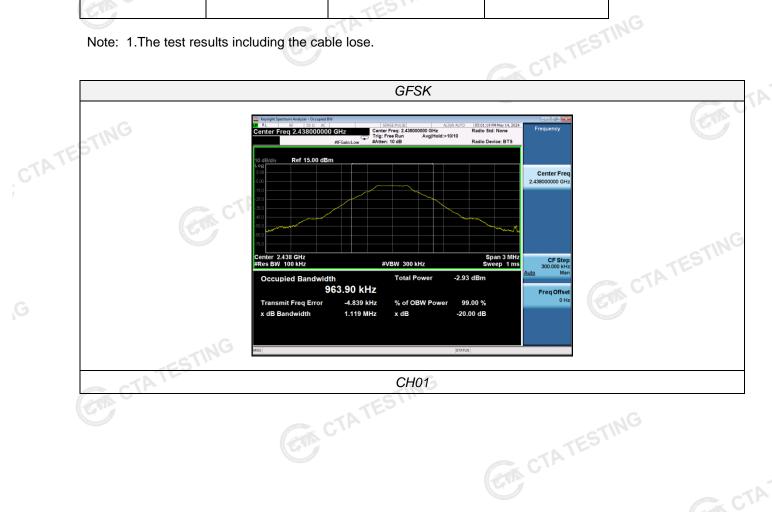
The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

LIMIT

TEST RESULTS

N/A TEST RESULTS		CTATE		CTATESTING
Modulation	Channel	20dB bandwidth (MHz)	Result	
GFSK	1	1.119	PASS	

Note: 1.The test results including the cable lose.



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4.4. 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.

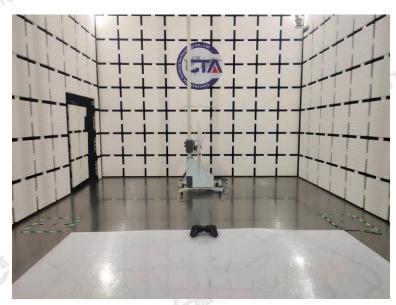
And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than CTATE 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

The maximum gain of antenna was 0.68 dBi.

Remark:The antenna Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Shenzhen CTA Testing Technology Co., Ltd. does not assume any responsibility. CTATES!

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5. Test Setup Photos of the EUT CTATES





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6. Test Photos of the EUT







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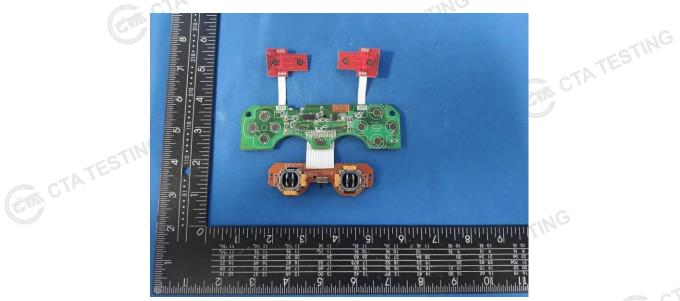






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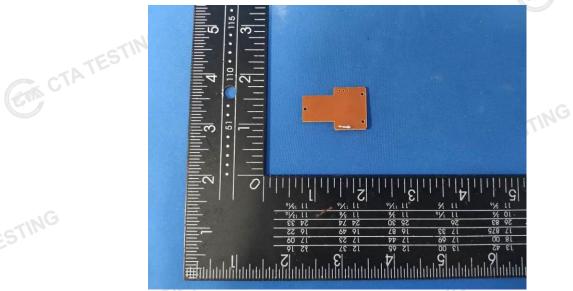


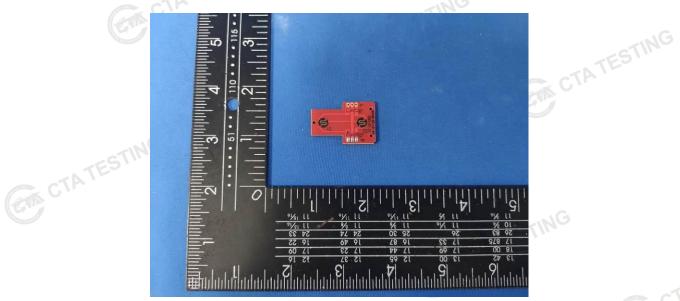




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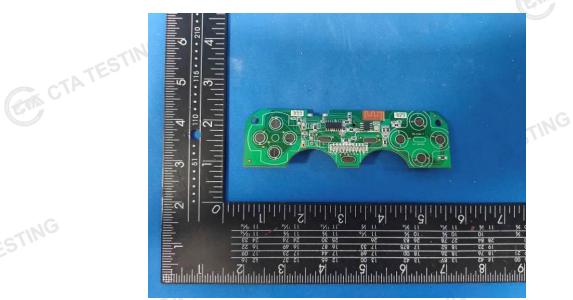




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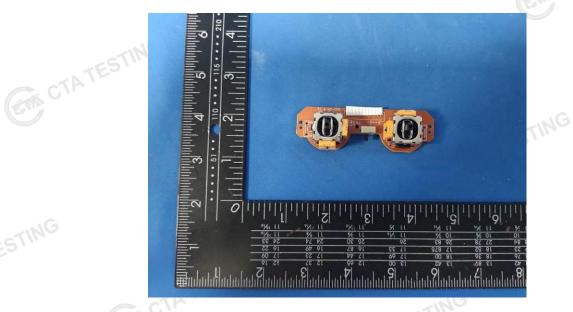


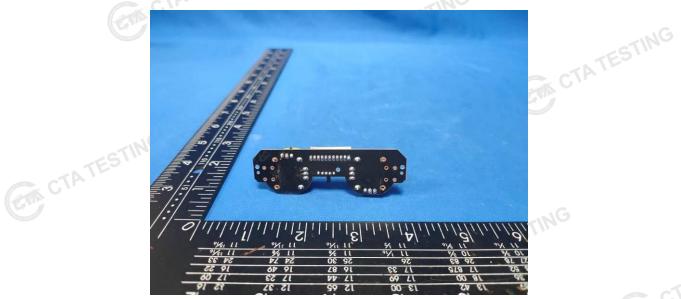




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.....End of Report.