

Global United Technology Services Co., Ltd.

Report No.: GTS2023030508F01

TEST REPORT

Applicant: SHENZHEN GIEC DIGITAL CO., LTD

Address of Applicant: 1st&3rd Building, No.26 Puzai Road, Pingdi, Longgang

District, Shenzhen, China

SHENZHEN GIEC DIGITAL CO., LTD Manufacturer:

Address of 1st&3rd Building, No.26 Puzai Road, Pingdi, Longgang

Manufacturer: District, Shenzhen, China

SHENZHEN JOWAY POWER SUPPLY CO., LTD **Factory:**

Address of Factory: Building 11, antuoshan hi tech Industrial Park, Shaer

community, Shajing street, Bao'an District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: True Wireless Earbuds

Model No.: Z3001

FCC ID: 2AHYK-GIECZ3001

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: March 30, 2023

March 31, 2023-April 13, 2023 Date of Test:

Date of report issued: April 13, 2023

PASS * Test Result:

Authorized Signature:



Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver. Page 1 of 35

^{*} In the configuration tested, the EUT complied with the standards specified above.



2 Version

Version No.	Date	Description
00	April 13, 2023	Original

Prepared By:	Project Engineer	Date:	April 13, 2023
Check By:	Reviewer	Date:	April 13, 2023

GTS

Report No.: GTS2023030508F01

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (a)(1)(iii)	Pass
Dwell Time	15.247 (a)(1)(iii)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

Remarks:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. Test according to ANSI C63.10:2013

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz-30MHz	3.1dB	(1)
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)
Note (1): The measurement unce	ertainty is for coverage factor of ka	=2 and a level of confidence of 9	95%.



General Information 5

5.1 General Description of EUT

Product Name:	True Wireless Earbuds
Model No.:	Z3001
Test sample(s) ID:	GTS2023030508-1
Sample(s) Status:	Engineer sample
Serial No.:	GIECZ3001X23050100001
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, π/4-DQPSK
Antenna Type:	Chip Antenna
Antenna gain:	2.16dBi
Power supply:	Charge box: DC 3.7V, 300mAh, 1.11Wh for Li-ion battery
	Earphone: Battery DC 3.7V, 25mAh, 0.0925Wh for Li-ion battery
	The battery is charged via USB DC5V



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

Note:

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

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz



5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode.

5.3 Description of Support Units

None.

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

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

• FCC—Registration No.: 381383

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

• IC —Registration No.: 9079A

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

5.8 Additional Instructions

Test Software	Special test software provided by manufacturer
Power level setup	Default



6 Test Instruments list

	0 Test instruments list							
Rad	iated Emission:			Inventory				
Item	Test Equipment	Manufacturer	Model No.		Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July 02, 2020	July 01, 2025		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	April 22, 2022	April 21, 2023		
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 20, 2023	March 19, 2025		
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June 12, 2022	June 11, 2023		
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 23, 2022	June 22, 2023		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
8	Coaxial Cable	GTS	N/A	GTS213	April 22, 2022	April 21, 2023		
9	Coaxial Cable	GTS	N/A	GTS211	April 22, 2022	April 21, 2023		
10	Coaxial cable	GTS	N/A	GTS210	April 22, 2022	April 21, 2023		
11	Coaxial Cable	GTS	N/A	GTS212	April 22, 2022	April 21, 2023		
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	April 22, 2022	April 21, 2023		
13	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 23, 2022	June 22, 2023		
14	Band filter	Amindeon	82346	GTS219	June 23, 2022	June 22, 2023		
15	Power Meter	Anritsu	ML2495A	GTS540	June 23, 2022	June 22, 2023		
16	Power Sensor	Anritsu	MA2411B	GTS541	June 23, 2022	June 22, 2023		
17	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April 22, 2022	April 21, 2023		
18	Splitter	Agilent	11636B	GTS237	June 23, 2022	June 22, 2023		
19	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 29, 2022	Nov. 28, 2023		
20	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 22, 2022	April 21, 2023		
21	Breitband hornantenna	SCHWARZBECK	BBHA 9170	GTS579	Oct. 16, 2022	Oct. 15, 2023		
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 16, 2022	Oct. 15, 2023		
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 16, 2022	Oct. 15, 2023		
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June 23, 2022	June 22, 2023		
25	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 22, 2022	April 21, 2023		



Con	Conducted Emission								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May 14, 2022	May 13, 2025			
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 24, 2022	April 23, 2023			
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 23, 2022	June 22, 2023			
4	ENV216 2-L-V- NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	April 22, 2022	April 21, 2023			
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A			
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
7	Thermo meter	JINCHUANG	GSP-8A	GTS639	April 28, 2022	April 27, 2023			
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	April 15, 2022	April 14, 2023			
9	ISN	SCHWARZBECK	NTFM 8158	GTS565	April 22, 2022	April 21, 2023			
10	High voltage probe	SCHWARZBECK	TK9420	GTS537	April 22, 2022	April 21, 2023			

RF C	RF Conducted Test:							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	April 22, 2022	April 21, 2023		
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 22, 2022	April 21, 2023		
3	Spectrum Analyzer	Agilent	E4440A	GTS536	April 22, 2022	April 21, 2023		
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April 22, 2022	April 21, 2023		
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April 22, 2022	April 21, 2023		
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April 22, 2022	April 21, 2023		
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April 22, 2022	April 21, 2023		
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	April 22, 2022	April 21, 2023		
9	EXA Signal Analyzer	Keysight	N9010B	MY60241168	Nov. 04, 2022	Nov. 03, 2023		

Ger	neral used equipment:					
Item	Test Equipment Manufacturer		Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	April 25, 2022	April 24, 2023
2	Barometer	KUMAO	SF132	GTS647	July 26, 2022	July 25, 2023



7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The antenna is chip antenna, reference to the appendix II for details.



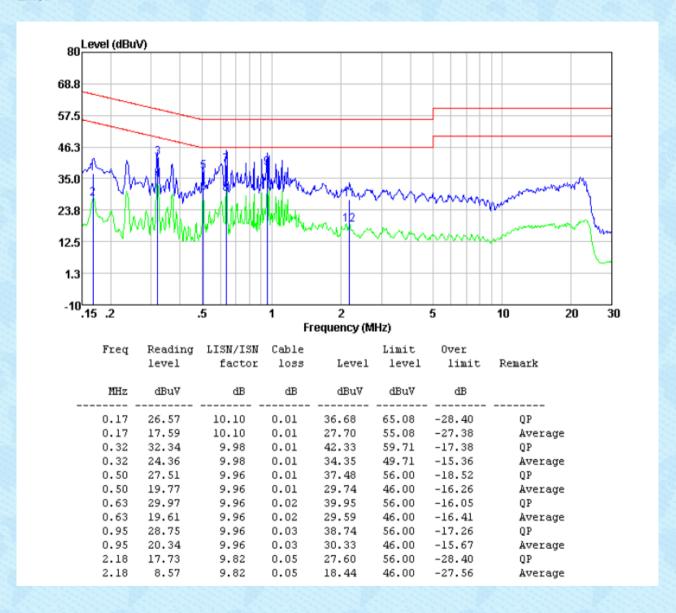
7.2 Conducted Emissions

7.2 Conducted Emissions						
Test Requirement:	FCC Part15 C Section 15.207	7				
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B RBW=9KHz, VBW=30KHz, Sweep time=auto					
Receiver setup:						
Limit:	Limit (dBuV)					
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56 60	46			
	5-30 * Decreases with the logarithr		50			
Test setup:	Reference Plane					
Test procedure:	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m 1. The E.U.T and simulators is	Filter — AC p	main power through a			
rest procedure.	line impedance stabilizatio 500hm/50uH coupling imposed 2. The peripheral devices are LISN that provides a 500hr termination. (Please refer to photographs). 3. Both sides of A.C. line are interference. In order to fin positions of equipment and according to ANSI C63.10:	n network (L.I.S.N.). edance for the meas e also connected to the m/50uH coupling imple to the block diagram checked for maximuly d the maximum emis d all of the interface of	This provides a uring equipment. The main power through a pedance with 500hm of the test setup and the conducted asion, the relative cables must be changed			
Test Instruments:	Refer to section 6.0 for details	3				
Test mode:	Refer to section 5.2 for details	3				
Test environment:	Temp.: 25 °C Hur	nid.: 52%	Press.: 1012mbar			
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					



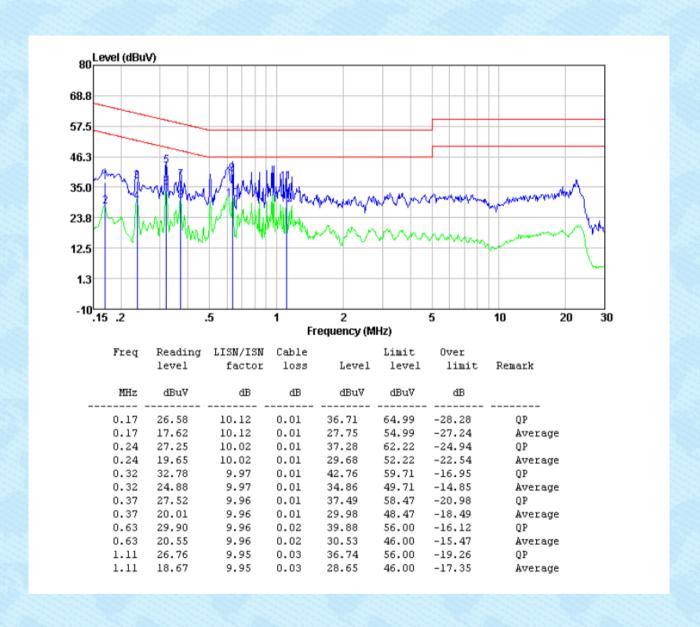
Measurement data:

Pre-scan all test modes, found worst case at GFSK 2402MHz, and so only show the test result of it **Line:**





Neutral:

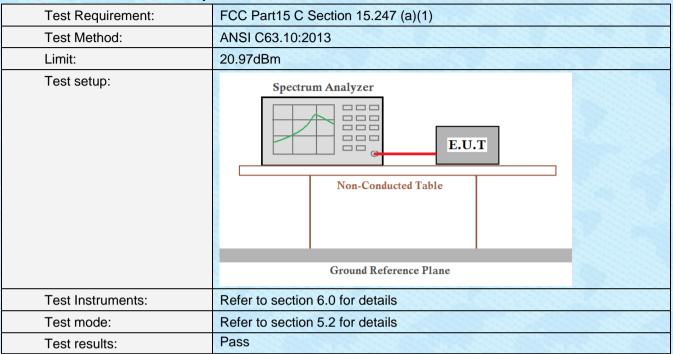


Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Cable Loss



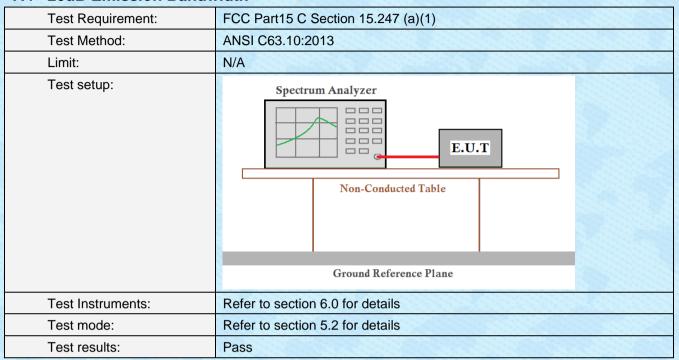
7.3 Conducted Peak Output Power



Measurement Data: The detailed test data see Appendix for BT EDR.



7.4 20dB Emission Bandwidth



Measurement Data: The detailed test data see Appendix for BT EDR.



7.5 Carrier Frequencies Separation

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)			
Test Method:	ANSI C63.10:2013			
Receiver setup:	RBW=100KHz, VBW=300KHz, detector=Peak			
Limit:	GFSK: 20dB bandwidth π/4-DQPSK: 0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.2 for details			
Test results:	Pass			

Measurement Data: The detailed test data see Appendix for BT EDR.



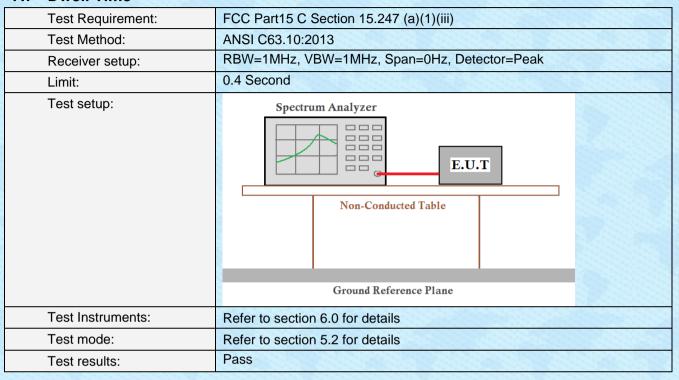
7.6 Hopping Channel Number

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak
Limit:	15 channels
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for BT EDR.



7.7 Dwell Time



Measurement Data: The detailed test data see Appendix for BT EDR.



7.8 Spurious Emission in Non-restricted & restricted Bands

7.8.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013				
Receiver setup:	RBW=100kHz, VBW=300kHz, Detector=Peak				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				

Measurement Data: The detailed test data see Appendix for BT EDR.



7.8.2 Radiated Emission Method

1.0.2 Radiated Ellission is						
Test Requirement:	FCC Part15 C Section	on 15	5.209			
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	9kHz to 25GHz					
Test site:	Measurement Distance: 3m					
Receiver setup:	Frequency	I	Detector	RBW	VBW	Value
	9KHz-150KHz	Qı	uasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Qı	uasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Qı	uasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz		Peak	1MHz	3MHz	Peak
	Above 10112		Peak	1MHz	10Hz	Average
	Note: For Duty cycle < 98%, avera					
Limit:	Frequency		Limit (uV/m)		Value	Measurement Distance
	0.009MHz-0.490M	lHz	2400/F(k	(Hz) F	PK/QP/AV	300m
	0.490MHz-1.705M	lHz	24000/F(KHz)	QP	30m
	1.705MHz-30MH	lz	30		QP	30m
	30MHz-88MHz		100		QP	
	88MHz-216MHz	<u> </u>	150		QP	
	216MHz-960MH	Z	200		QP	3m
	960MHz-1GHz		500			OIII
	Above 1GHz		500 A		Average	
	710000 10112		5000		Peak	
Test setup:	For radiated emissions from 9kHz to 30MHz Compared to 30MHz					



Report No.: GTS2023030508F01 For radiated emissions from 30MHz to1GHz Test Antenna ... 4m > EUT. Turn Table. < 80cm > Turn Tables Receiver# Preamplifier. For radiated emissions above 1GHz < 3m > Test Antenna-< 1m ... 4m > EUT Turn Table <150cm; Receiver-Preamplifier+ Test Procedure: 1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.2 for details

Global United Technology Services Co., Ltd.

No. 123- 128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102



Report No.: GTS2023030508F0 ²						030508F01
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	DC 3.7V					
Test results:	Pass					

Measurement data:

Remarks:

- 1. During the test, pre-scan the GFSK, $\pi/4$ -DQPSK modulation, and found the GFSK modulation which it is worse case.
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

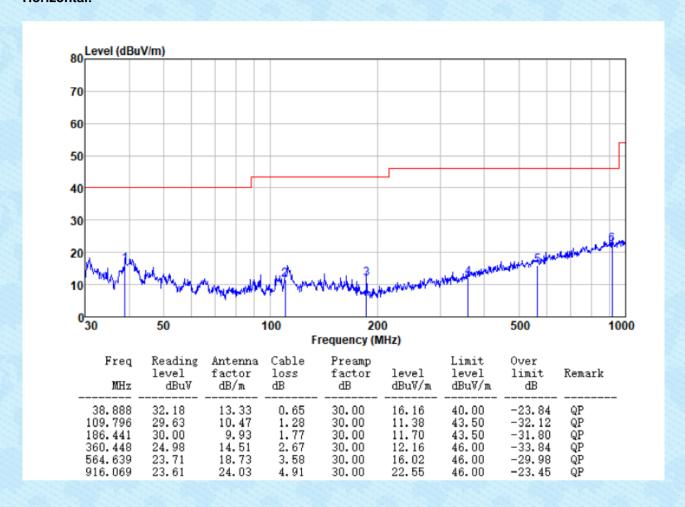
■ 9kHz~30MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



■ Below 1GHz

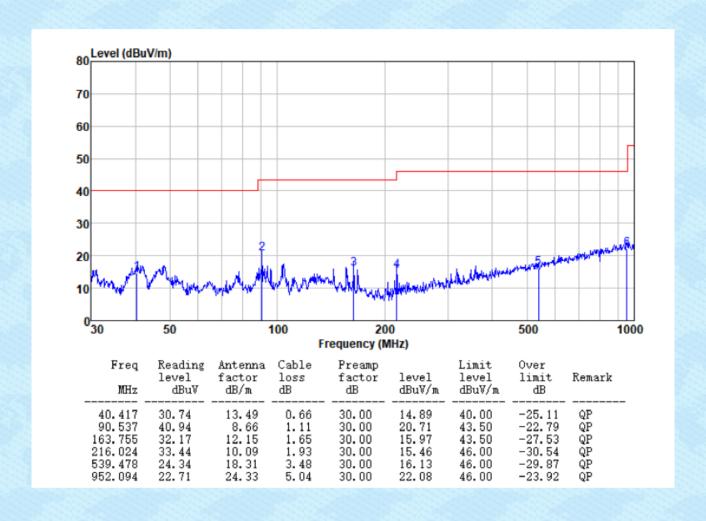
Pre-scan all test modes, found worst case at GFSK 2402MHz, and so only show the test result of it **Horizontal**:





Vertical:

Report No.: GTS2023030508F01

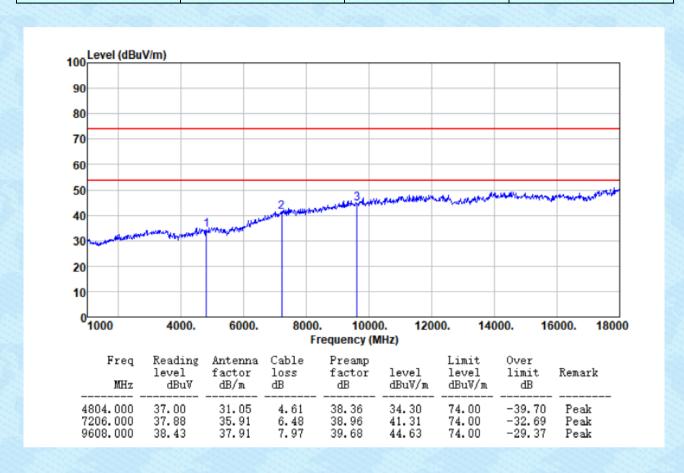




Above 1GHz

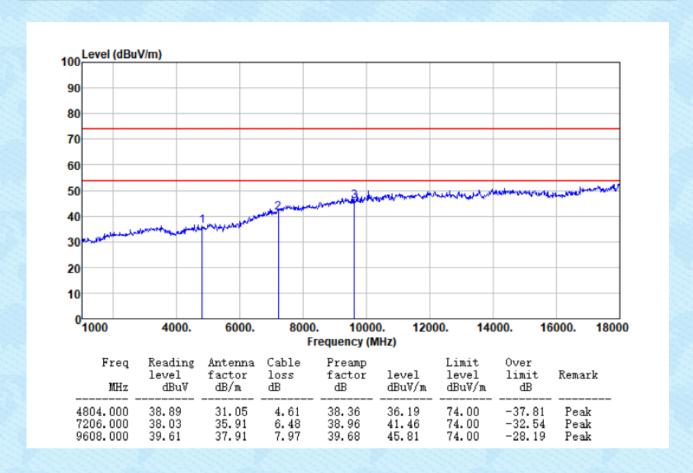
Unwanted Emissions in Restricted Frequency Bands

4	Test channel:	Lowest	Polarization:	Horizontal
	rost charmer.	LOWCSI	i dianzadon.	Honzontal



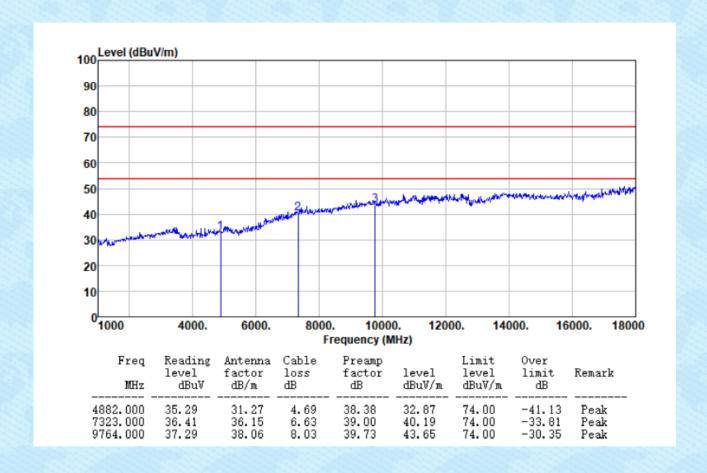


Test channel:	Lowest	Polarization:	Vertical





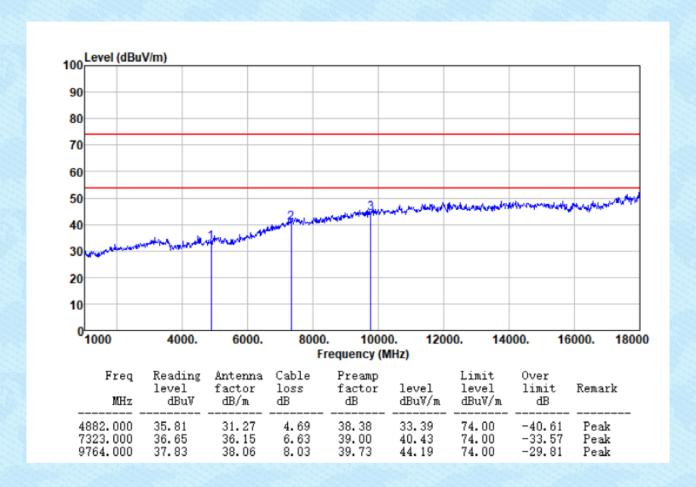
Test channel: Middle Polarization: Horizontal



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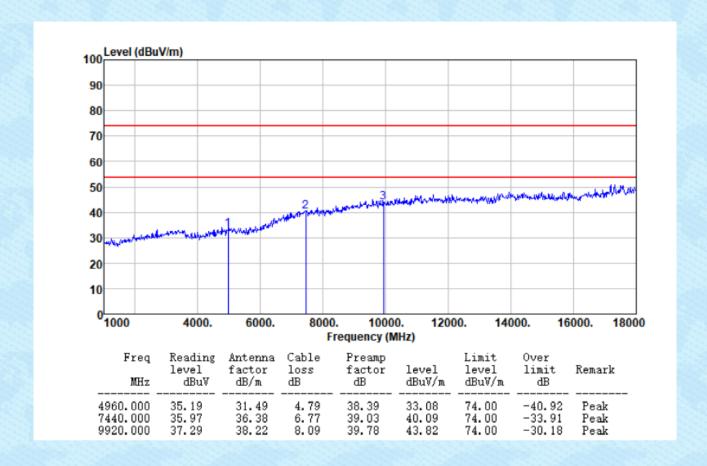


Test channel:	Middle	Polarization:	Vertical
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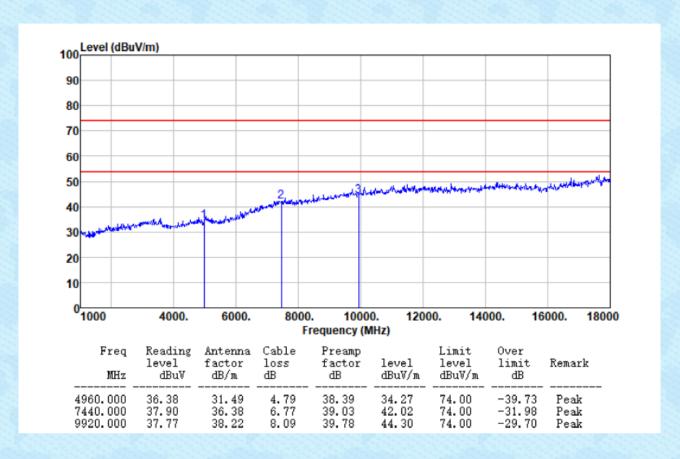


Test channel: Highest Polarization: Horizontal	
------------------------------------------------	--





Test channel:	Highest	Polarization:	Vertical
1 00t oriainioi.	i ligitoot	i olanzadori.	, voitioai

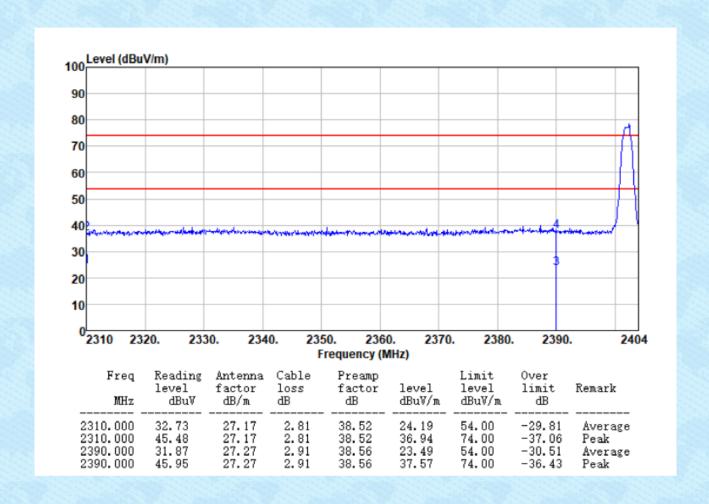


Remarks:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of frequencies range from 18GHz-25GHz are very lower than the limit and not show in test report.

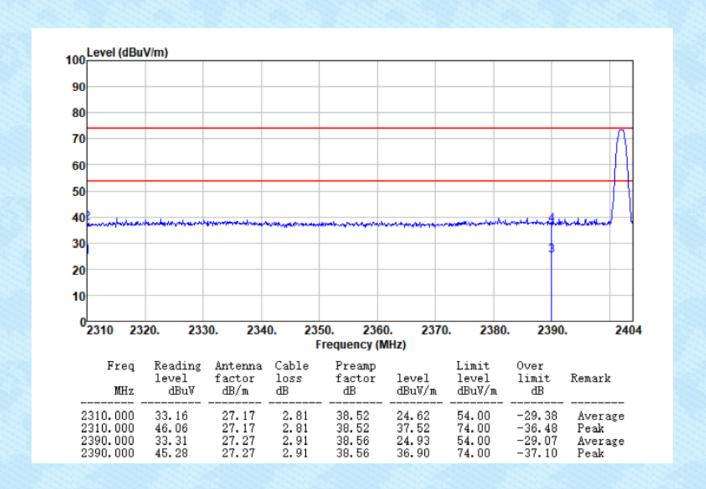


■ Unwanted Emissions in Non-restricted Frequency Bands



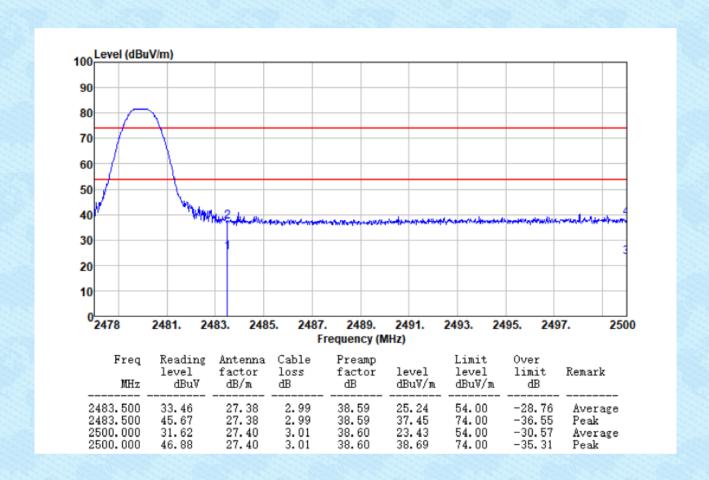


Test channel:	Lowest	Polarization:	Vertical
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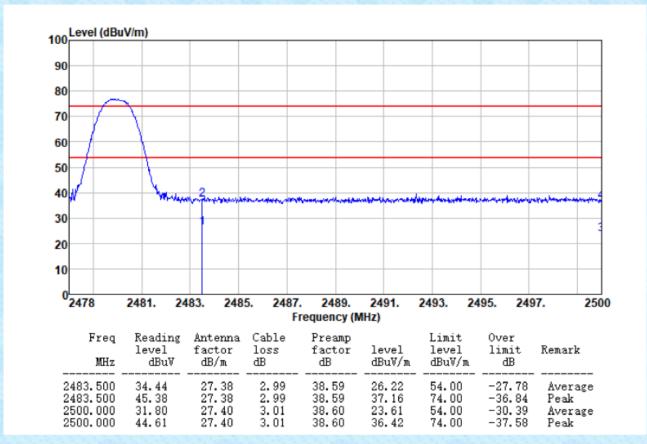


Test channel: Highest Polarization: Horizontal





Test channel:	Highest	Polarization:	Vertical
1 00t oriainioi.	i ligitoot	i olanzadori.	, voitioai



Remarks:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

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