

# Global United Technology Services Co., Ltd.

Report No.: GTS202204000048F01

# **TEST REPORT**

**Applicant:** Shenzhen Golden Vision Technology Development Co., Ltd

**Address of Applicant:** No.6 Bao Fu Road, Bao Lai industrial Park, Shang Mu Gu

Villiage, Pinghu Street, Longgang District, Shenzhen City,

Guangdong Province, 518000, China

Manufacturer: Shenzhen Golden Vision Technology Development Co., Ltd

No.6 Bao Fu Road, Bao Lai industrial Park, Shang Mu Gu Address of Villiage, Pinghu Street, Longgang District, Shenzhen City, Manufacturer:

Guangdong Province, 518000, China

**Equipment Under Test (EUT)** 

Smart Pet Feeder **Product Name:** 

Model No.: BL<sub>6</sub>

Add. Model No.: BL5, BL7, BL4, BL3, WF, BL8, C1, C2, C3

**Trade Mark:** N/A

FCC ID: 2APD7-BL6

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

Date of sample receipt: 2022-04-28

Date of Test: 2022-04-28 to 2022-04-29

Date of report issued: 2022-04-29

PASS \* Test Result:



#### **Robinson Luo Laboratory Manager**

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



## 2 Version

Report No.	Version No.	Date	Description
GTS202003000215F01	00	2020-03-19	Original
GTS202108000036F01	01	2021-08-05	Add model number, product photos.
GTS202204000048F01	02	2022-04-29	This report base on the previous report with report number GST202003000215F01 and GTS202108000036F01, since the updated version number added model and cancel the positioning hole on the small PCB, only the false emission (30- 1000MHz) was re-tested, and no other test items needed to be re-tested.

Prepared By:	Trankly	Date:	2022-04-29
	Project Engineer		
Check By:	Johnson Lund	Date:	2022-04-29
	Reviewer	the state of the state of	



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## 4 Test Summary

Test Item	Section	Result
Antenna requirement	FCC part 15.203/15.247 (c)	NA
AC Power Line Conducted Emission	FCC part 15.207	NA
Conducted Peak Output Power	FCC part 15.247 (b)(3)	NA
Channel Bandwidth & 99% OCB	FCC part 15.247 (a)(2)	NA
Power Spectral Density	FCC part 15.247 (e)	NA
Band Edge	FCC part 15.247(d)	NA
Spurious Emission	FCC part 15.205/15.209	Pass

Remark: Test according to ANSI C63.10:2013 and RSS-Gen

Pass: The EUT complies with the essential requirements in the standard.

## **Measurement Uncertainty**

Test Item	Frequency Range	Measurement Uncertainty	Notes
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 uncert	tainty is for coverage factor of k	=2 and a level of confidence of 9	95%.



#### 5 General Information

## 5.1 General Description of EUT

Product Name:	Smart Pet Feeder
Model No.:	BL6
Add. Model No.:	BL5, BL7, BL4, BL3, WF, BL8, C1, C2, C3
Hardware Version:	V1.0
Software Version:	V1.0
Test sample(s) ID:	GTS202003000215-1
Sample(s) Status:	Engineer sample
Sample(s) Status:	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11 802.11n(HT40):7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20)/802.11n(HT40): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	FPC Antenna
Antenna gain:	3.5dBi
Power supply:	Input: AC 120V/60Hz
AL ( M L L (DLO)	1 /DI 5 DI 7 DI 4 DI 6 IWE DI 6 O4 O6 O6)/I I'''

Note: Models (BL6) and models (BL5, BL7, BL4, BL3, WF,BL8, C1, C2, C3)the difference is only to distinguish different sales areas of different customers, the model name is different, and the products are exactly the same.

Operation	Operation Frequency each of channel								
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency		
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz		
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz		
3	2422MHz	6	2437MHz	9	2452MHz				

#### 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:

Toot shound	Frequen	cy (MHz)
Test channel	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz



#### 5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

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:

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

78 00	Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
	Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

#### 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 Version	Realtek 11n 8188F USB WLAN MP Diagnostic				
	Program 1.25.20170609				
Power Setting	Power Setting: not applicable, test used software				
	default power level.				

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



## 6 Test Instruments list

Rad	Radiated Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory 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	June. 24 2021	June. 23 2022			
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 24 2021	June. 23 2022			
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 24 2021	June. 23 2022			
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 24 2021	June. 23 2022			
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
8	Coaxial Cable	GTS	N/A	GTS213	June. 24 2021	June. 23 2022			
9	Coaxial Cable	GTS	N/A	GTS211	June. 24 2021	June. 23 2022			
10	Coaxial cable	GTS	N/A	GTS210	June. 24 2021	June. 23 2022			
11	Coaxial Cable	GTS	N/A	GTS212	June. 24 2021	June. 23 2022			
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 24 2021	June. 23 2022			
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 24 2021	June. 23 2022			
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 24 2021	June. 23 2022			
15	Band filter	Amindeon	82346	GTS219	June. 24 2021	June. 23 2022			
16	Power Meter	Anritsu	ML2495A	GTS540	June. 24 2021	June. 23 2022			
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 24 2021	June. 23 2022			
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 24 2021	June. 23 2022			
19	Splitter	Agilent	11636B	GTS237	June. 24 2021	June. 23 2022			
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 24 2021	June. 23 2022			
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 17 2021	Oct. 16 2022			
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 17 2021	Oct. 16 2022			
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 17 2021	Oct. 16 2022			
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 24 2021	June. 23 2022			



Con	ducted Emission			The state of the state of	the state of the state of	of the state of th
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.15 2019	May.14 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 24 2021	June. 23 2022
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 24 2021	June. 23 2022
4	ENV216 2-L-V- NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 24 2021	June. 23 2022
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	KTJ	TA328	GTS233	June. 24 2021	June. 23 2022
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 24 2021	June. 23 2022
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 24 2021	June. 23 2022
10	High voltage probe	SCHWARZBECK	TK9420	GTS537	June. 09 2021	June. 08 2022

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	June. 24 2021	June. 23 2022	
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 24 2021	June. 23 2022	
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 24 2021	June. 23 2022	
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 24 2021	June. 23 2022	
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 24 2021	June. 23 2022	
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 24 2021	June. 23 2022	
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 24 2021	June. 23 2022	
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 24 2021	June. 23 2022	

Gene	Beneral 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	КТЈ	TA328	GTS243	June. 24 2021	June. 23 2022	
2	Barometer	ChangChun	DYM3	GTS255	June. 24 2021	June. 23 2022	



#### 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.

#### **EUT Antenna:**

The antennas are FPC antenna, the best case gain of the antennas are 3.5dBi, reference to the appendix II for details



#### 7.2 Conducted Emissions

line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power throu LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and	Test Requirement:	FCC Part15 C Section 15.207			man man man	
Receiver setup:  RBW=9KHz, VBW=30KHz, Sweep time=auto  Limit:  Frequency range (MHz)  Quasi-peak  Average  0.15-0.5  66 to 56* 56 to 46*  0.5-5  5-30  * Decreases with the logarithm of the frequency.  Reference Plane  LISN  Aux  Equipment  LISN  Aux  Equipment  LISN  Aux  ELUT Equipment  LISN  Test table height=0 8m  Test table height=0 8m  Test procedure:  1. The E.U.T and simulators are connected to the main power through line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through the provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and	Test Method:	ANSI C63.10:2013				
Limit:  Frequency range (MHz)  Quasi-peak  Average  0.15-0.5  66 to 56* 56 to 46*  0.5-5  5-30 60 50  * Decreases with the logarithm of the frequency.  Test setup:  Reference Plane  LISN  Aux  E.U.T  Test table/Insulation plane  Remark  E.U.T Equipment Linder Test  LISN Line impedance Stabilization Network  Test table height-0.8m  Test procedure:  1. The E.U.T and simulators are connected to the main power through line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through line impedance of the measuring equipment.  LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and	Test Frequency Range:					
Test setup:    Reference Plane   Filter   Ac power	Receiver setup:					
Test procedure:  Test procedure:  1. The E.U.T and simulators are connected to the main power through line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and	Limit:	Francisco (AMIL)	Or any or any or			
Test setup:  Reference Plane  LISN  AUX Equipment Under Test LISN Line impedence Stabilization Network Test table height-0 8m  1. The E.U.T and simulators are connected to the main power through line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and		The state of the s			774	
Test setup:  Reference Plane  LISN  AUX Equipment  Filter  Receiver  Remark  E.U.T  Equipment Under Test  LISN Line Impedance Stabilization Network Test table height=0 8m  1. The E.U.T and simulators are connected to the main power through line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through line impedance of the measuring equipment.  2. The peripheral devices are also connected to the main power through line impedance of the measuring equipment.  Please refer to the block diagram of the test setup and the coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and the coupling impedance with 500hm termination.					The state of the s	
* Decreases with the logarithm of the frequency.  Test setup:  Reference Plane  LISN  AUX Equipment  Test table/Insulation plane  Remark  EUT Equipment Under Test LISN Lisn Line impedance Stabilization Network Test table height=0.8m  Test procedure:  1. The E.U.T and simulators are connected to the main power through line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through line impedance stabilization network (L.I.S.N.) (Please refer to the block diagram of the test setup and termination. (Please refer to the block diagram of the test setup and the setup an		75 7 6 70 75 6 75 75 75 75 75 75 75 75 75 75 75 75 75				
Test setup:  Reference Plane  LISN  40cm 80cm Filter Ac power  E.U.T  Equipment  Test table/Insulation plane  Remark EUT. Equipment Under Test LISN Line impedance Stabilization Network Test table height=0.8m  Test procedure:  1. The E.U.T and simulators are connected to the main power through line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through line impedance are also connected to the main power through line impedance with 500hm termination. (Please refer to the block diagram of the test setup and		The second of th	0, 0, 10	50	0 0 0	
Test procedure:  1. The E.U.T and simulators are connected to the main power through line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through line impedance of the measuring equipment.  2. The peripheral devices are also connected to the main power through line impedance of the measuring equipment.  2. The peripheral devices are also connected to the main power through line impedance with 50ohm termination. (Please refer to the block diagram of the test setup and	Tarkarda a	The state of the s	trequency.	The state of the s	Charles on the	
LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and	Test procedure:	AUX Equipment E.U.T  Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m  1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a				
Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative		interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed				
Test Instruments: Refer to section 6.0 for details	Test Instruments:	Refer to section 6.0 for details				
Test mode: Refer to section 5.2 for details	Test mode:	Refer to section 5.2 for details				
Test environment: Temp.: 20.2 °C Humid.: 45% Press.: 1010	Test environment:	Temp.: 20.2 °C Humid.:	45%	Press.:	1010mbar	
Test voltage: NA	Test voltage:	NA CONTRACTOR OF THE PROPERTY		The state of the s	A CANADA	
Test results: NA	Test results:	NA			and the same of th	

#### 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. Emission Level= Read Level+ Correct Factor
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



## 7.3 Conducted Peak Output Power

Test Requirement :	FCC Part15 C Section 15.247 (b)(3)				
Test Method :	KDB558074 D01 DTS Meas Guidance V05or02				
Limit:	30dBm				
Test setup:	Power Meter  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:	NA				



## 7.4 Channel Bandwidth & 99% Occupy Bandwidth

Test Requirement :	FCC Part15 C Section 15.247 (a)(2)			
Test Method :	KDB558074 D01 DTS Meas Guidance V05or02			
Limit:	>500KHz			
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:	NA			



## 7.5 Power Spectral Density

A					
Test Requirement:	FCC Part15 C Section 15.247 (e)				
Test Method:	KDB558074 D01 DTS Meas Guidance V05or02				
Limit:	8dBm/3kHz				
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:	NA STATE OF THE PROPERTY OF TH				



## 7.6 Band edges

## 7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	KDB558074 D01 DTS Meas Guidance V05or02				
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 20 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  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:	NA Commence of the Commence of				



#### 7.6.2 Radiated Emission Method

Toot Doguiroments	FCC Dort4F C C	Castian 15 200	and 15 20	* O1 - O1			
Test Requirement:	FCC Part15 C Section 15.209 and 15.20						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.						
Test site:	Measurement Distance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
	the state of the s	Peak	1MHz	3MHz	Peak		
A	Above 1GHz	Average	1MHz	3MHz	Average		
Limit:	Freque		Limit (dBuV/	m @3m)	Value		
	54.00 Avera				Average		
	Above 1	Above 1GHz 74.00					
Test setup:	Tum Table	< 3n	Test Antenna				
Test Procedure:	<ol> <li>The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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.</li> <li>The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.</li> </ol>						
Test Instruments:	Refer to section		A CONTRACTOR OF THE PARTY OF TH	the state of the s	Charles and Charle		
Test mode:	Refer to section	5.2 for details	The state of the s				
Test results:	NA	and the same	N CO ON CONTROL	Contract of the Contract of th	The state of the s		



## 7.7 Spurious Emission

## 7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	KDB558074 D01 DTS Meas Guidance V05or02				
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 20 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  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:	NA TO THE RESERVE OF THE PARTY				



#### 7.7.2 Radiated Emission Method

7.7.2 Radiated Emission Method							
Test Requirement:	FCC Part15 C Section	on 15	.209	on on on	200		
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	9kHz to 25GHz						
Test site:	Measurement Distance: 3m						
Receiver setup:	Frequency	% or □	etector	RBW VBW		VBW	Value
	9KHz-150KHz Quasi-peak 200Hz 600Hz Quasi-pe				z Quasi-peak		
	150KHz-30MHz Quasi-peak 9KHz 30KHz Quasi-peak					z Quasi-peak	
	30MHz-1GHz Quasi-peak 100KHz 300KHz Quasi-pea				Iz Quasi-peak		
	Above 1GHz	200	Peak	1MHz		3MHz	z Peak
	7,5000 10112	On the	Peak	1MHz		10Hz	Average
Limit:	Frequency		Limit (u\	//m)	V	'alue	Measurement Distance
	0.009MHz-0.490M	Hz	2400/F(K	(Hz)	91	QP	300m
	0.490MHz-1.705M	Hz	24000/F(I	KHz)	On the	QP	300m
	1.705MHz-30MH	Z	30		71 - 171 171 - 171	QP	30m
6	30MHz-88MHz	300	100	Or or or	San Constitution of the	QP	
	88MHz-216MHz	99	150	n and	0	QP	
	The second secon	216MHz-960MHz 200				QP	3m
	960MHz-1GHz 500 QP						
	Above 1GHz	on on	500		- VA	erage	
Test setup:		70	5000	On the last	77 0	Peak	
	For radiated emissions from 9kHz to 30MHz  Tum Table  Receiver  Tum Table  (3m)  Receiver  Tum Table  (1m 4m)  (2m						



	Report No.: GTS202204000048F01
	For radiated emissions above 1GHz
	Tum Table -
Test Procedure:	<ol> <li>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.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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.</li> </ol>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test voltage:	AC120V 60Hz
Test environment:	Temp.: 23.6 °C Humid.: 49% Press.: 1012mbar
Test voltage:	AC 120V, 60Hz
Test results:	Pass



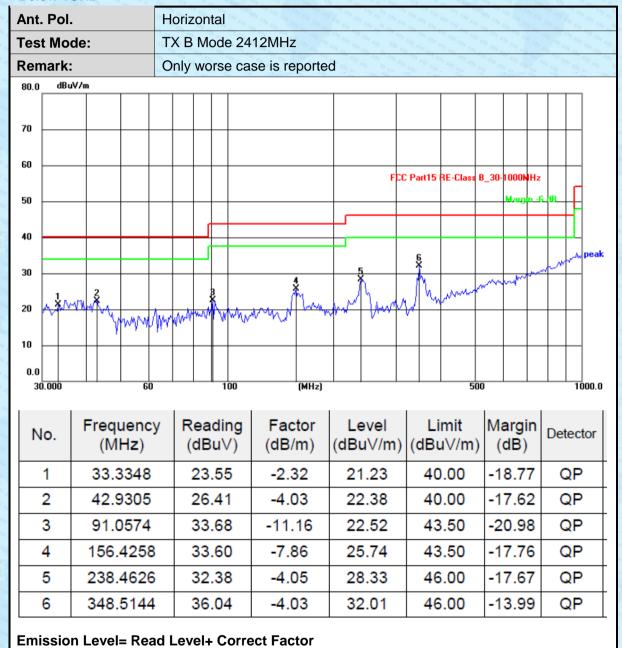
Measurement data:

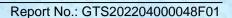
Report No.: GTS202204000048F01

#### ■ 9kHz~30MHz

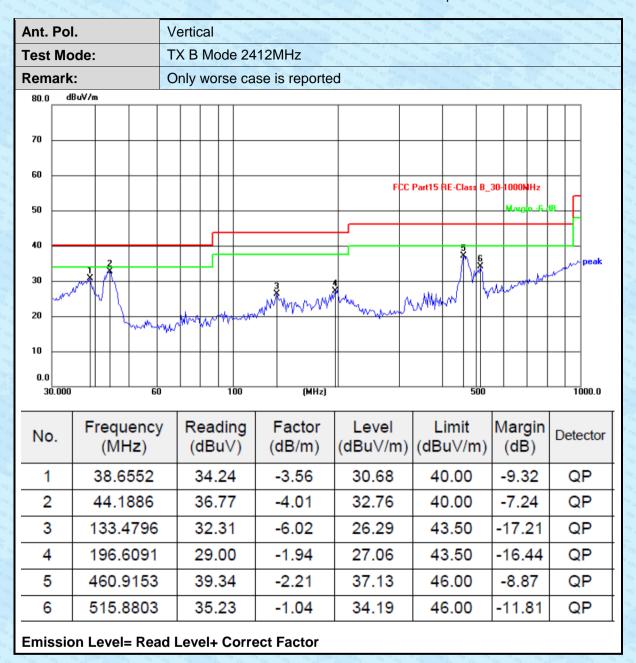
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

#### ■ Below 1GHz











#### ■ Above 1GHz

NA

#### Remark:

1.No report for the emission which more than 10 dB below the prescribed limit.

2.Emission Level= Read Level+ Correct Factor



## 8 Test Setup Photo

Reference to the appendix I for details.

## 9 EUT Constructional Details

Reference to the appendix II for details.

-----End-----