

Global United Technology Services Co., Ltd.

Report No.: GTS202205000026F01

TEST REPORT

Applicant: ShenZhen FLYSKY Technology Co.,Ltd

Address of Applicant: 16F, Huafeng Building, No. 6006 Shennan Road, Futian

District, Shenzhen, Guangdong, China

Manufacturer: ShenZhen FLYSKY Technology Co.,Ltd

Address of 16F, Huafeng Building, No. 6006 Shennan Road, Futian

Manufacturer: District, Shenzhen, Guangdong, China

Factory: Dongguan Flysky RC Model technology Co.,Ltd

Address of Factory: West building 3, HuangjinyuanInd Park, Qiaoli North Gate,

Changping Town, Dongguan, China

Equipment Under Test (EUT)

Product Name: 7-CHANNEL RECEIVER

Model No.: FS-R7D

Trade Mark: FLYSKY

FCC ID: 2A2UNR7D00

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

Date of sample receipt: May 06, 2022

Date of Test: May 06-17, 2022

Date of report issued: May 17, 2022

Test Result : PASS *

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

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.

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2 Version

Version No.	Date	Description
00	May 17, 2022	Original

Prepared By:	Trankly	Date:	May 17, 2022	
	Project Engineer			
Check By:	Johnson Lund	Date:	May 17, 2022	
	Reviewer			



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4 Test Summary

Test Item	Section	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

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

Remark: Test according to ANSI C63.10:2013.

4.1 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	3.44dB	(1)	
Note (1): The measurement unce	ertainty 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:	7-CHANNEL RECEIVER
Model No.:	FS-R7D
Serial No.:	N/A
Hardware version:	FS-R7D-V1.1
Software version:	FS-R7D 1.0.1
Test sample(s) ID:	GTS202205000026-1
Sample(s) Status	Engineer sample
Operation Frequency:	2406MHz~2472MHz
Channel numbers:	23
Modulation method:	FHSS
Modulation technology:	DSSS
Antenna Type:	Integral Antenna
Antenna gain:	-0.9dBi
Power supply:	DC 3.5-9.0V

Remark: The system works in the frequency range of 2406MHz to 2472MHz. This band has been divided to 23independent channels. Each radio system uses 20 different channels; the minimum channel separation is ≥3.017MHz. By using various switch-on times, hopping scheme and channel frequencies, the system can guarantee a jamming free radio transmission. Pre-testing all radio systems, this radio system recorded in the report is the worst mode. The channel list is below.



	Operation Frequency each of channel								
Channel Frequency (MHz) Channe		Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
1	2406	7	2424	13	2442	19	2460		
2	2409	8	2427	14	2445	20	2463		
3	2412	9	2430	15	2448	21	2466		
4	2415	10	2433	16	2451	22	2469		
5	2418	11	2436	17	2454	23	2472		
6	2421	12	2439	18	2457				

The test frequencies are below:

Channel	Frequency
The lowest channel	2406MHz
The middle channel	2442MHz
The Highest channel	2472MHz



5.2 Test mode

Transmitting mode Keep the EUT in transmitting mode.

Remark: During the test, the duty cycle >98%, the test voltage is adjusted from DC3.5V to DC9.0V, and found that the worst case was DC9.0V. So the report just shows that condition's data.

5.3 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).

5.4 Test Location

All other 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

5.5 Description of Support Units

Manufacturer	ufacturer Description		Serial Number	
ShenZhen FLYSKY Technology Co.,Ltd	Remote control	G7P	N/A	
GW	DC POWER SUPPLY	GPR-6030D	EF924756	

5.6 Deviation from Standards

None.

5.7 Abnormalities from Standard Conditions

None.

5.8 Additional Instructions

Software (Used for test) from client

Built-in by manufacturer, power set default.

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6 Test Instruments list

O	rest instruments list									
Radi	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	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.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	GTS565	June. 24 2021	June. 23 2022			
10	High voltage probe	SCHWARZBECK	TK9420	GTS537	July. 09 2021	July. 08 2022			

RF C	onducted 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	General used equipment:							
Item	em Test Equipment Manufacturer Model No. Inventor					Cal.Due date		
1	Humidity/ Temperature Indicator	KTJ	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 antenna is integral antenna, the best case gain of the antenna is -0.9dBi, reference to the appendix II for details.



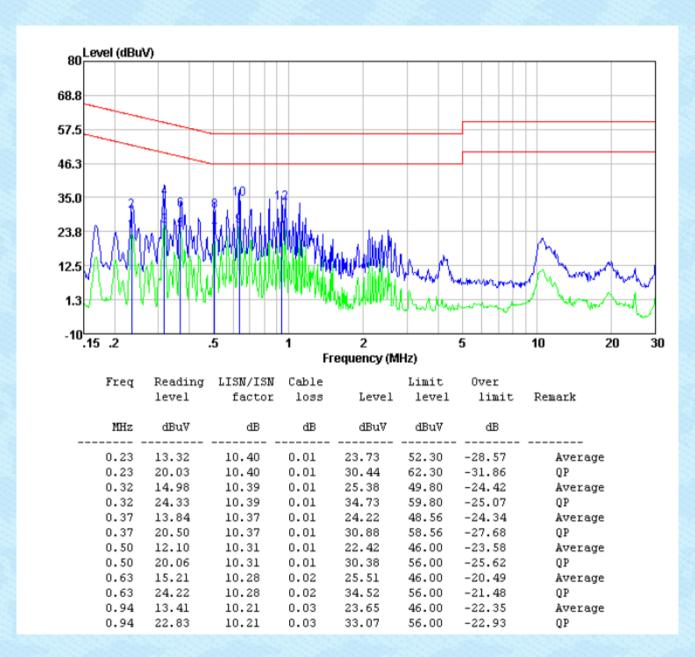
7.2 Conducted Emissions

Test Requirement:	FCC Part15	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.1	ANSI C63.10:2013				
Test Frequency Range:	150KHz to 3	30MHz				
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz	z, VBW=30K	Hz, Sweep tir	ne=auto		
Limit:				Limit	(dBuV)	
	Frequenc	cy range (Mh	lz) Qı	ıasi-peak	Avei	rage
	C	0.15-0.5	(66 to 56*	56 to	46*
		0.5-5		56	4	6
		5-30		60	5	0
	* Decreases	s with the log	arithm of the	frequency.		
Test setup:		Reference	Plane			
	Remark E.U.T Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m					
Test procedure:	 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 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2009 on conducted measurement. 					
Test Instruments:	Refer to sec	ction 6.0 for o	details			
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test results:	Pass					
10011000.10.						



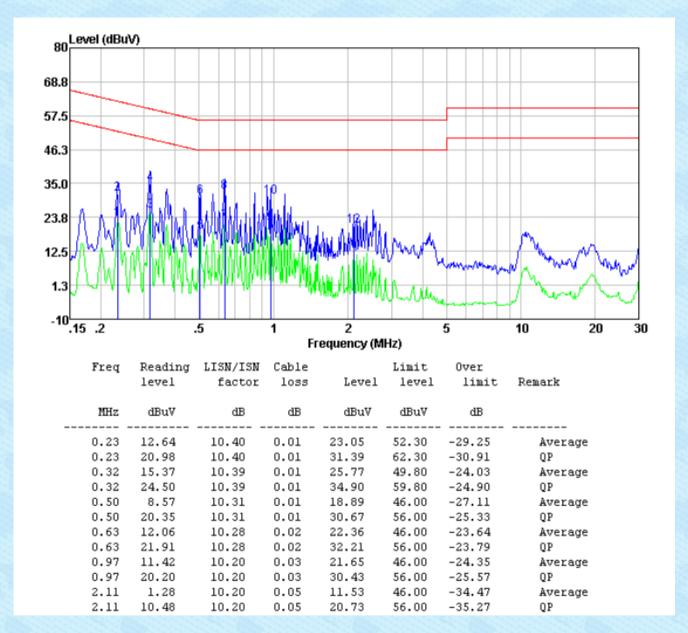
Measurement data

Line:





Neutral:

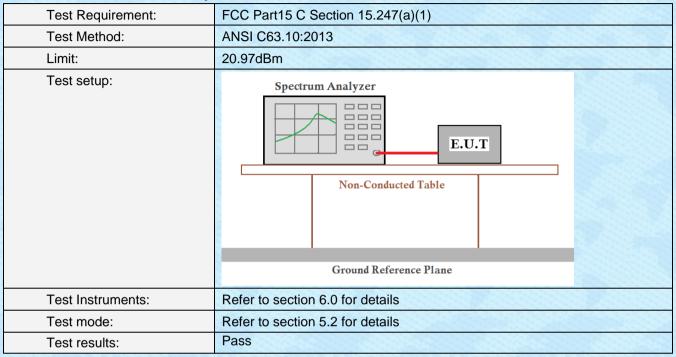


Notes:

- 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
- 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

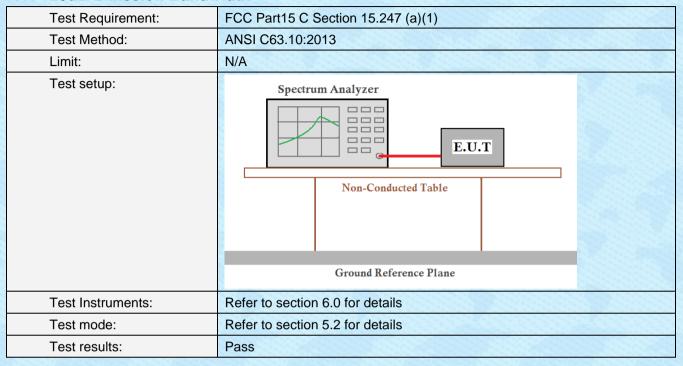


Measurement Data: The detailed test data see Appendix for 2.4G.

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7.4 20dB Emission Bandwidth

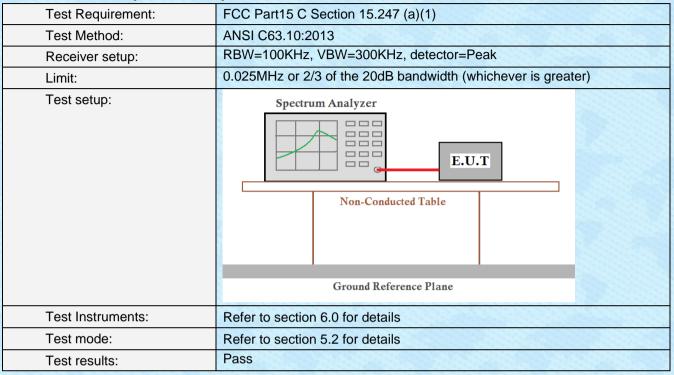


Measurement Data: The detailed test data see Appendix for 2.4G.

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7.5 Carrier Frequencies Separation



Measurement Data: The detailed test data see Appendix for 2.4G.

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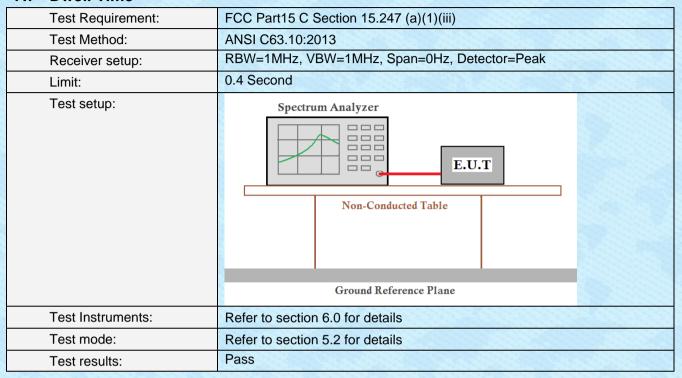
7.6 Hopping Channel Number

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii) ANSI C63.10:2013			
Test Method:				
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 2.4G.



7.7 Dwell Time



Measurement Data: The detailed test data see Appendix for 2.4G.

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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 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 E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section6.0 for details			
Test mode:	Refer to section 5.2 for details			
Test results:	Pass			

Measurement Data: The detailed test data see Appendix for 2.4G.



7.8.2 Radiated Emission Method

7.8.2 Radiated Emission Method					
Test Requirement:	FCC Part15 C Section	on 15.209 and	15.205		
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distar	nce: 3m			
Receiver setup:	Frequency	Detector	RBW	V VBW	Value Value
	9KHz-150KHz	Quasi-peak	200H	z 600H	z Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	z 30KH	z Quasi-peak
	30MHz-1GHz	Quasi-peak	120KH	1z 300KH	Iz Quasi-peak
	Above 1GHz	Peak	1MH	z 3MHz	z Peak
	710070 10112	Peak	1MH	z 10Hz	Average
Limit: (Spurious Emissions)	Frequency	Limit (uV/m)	Value	Measurement Distance
	0.009MHz-0.490M	Hz 2400/F	(KHz)	QP	300m
	0.490MHz-1.705M	Hz 24000/F	(KHz)	QP	300m
	1.705MHz-30MH			QP	30m
	30MHz-88MHz			QP	
	88MHz-216MHz			QP	
	216MHz-960MH			QP	3m
	960MHz-1GHz			QP	
	Above 1GHz	50		Average	
-		500	00	Peak	
Test setup:	Below 30MHz				
	Turn Table SUT SUCH SUCH SUCH SUCH SUCH SUCH SUCH SUCH		Antenna lm Receiver		
	DOIOW TOTIL				



Report No.: GTS202205000026F01 Test Antenna EUT Turn Table < 80cm Turn Tables Receiver-Preamplifier. Above 1GHz Test Antenna+ < 1m ... 4m > FUT. Tum Table <150cm> Receiver-Preamplifier+ Test Procedure: The EUT was placed on the top of a rotating table (0.8 meters for below 1GHz and 1.5meters for above 1GHz) 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 5.8 for details Test mode: Refer to section 5.2 for details Temp. / Hum. Temp.: 25 °C Humid .: 52% Press.: 1 012mbar

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		Report No.: GTS202205000026F01
Test results:	Pass	

Remark:

1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Measurement data:

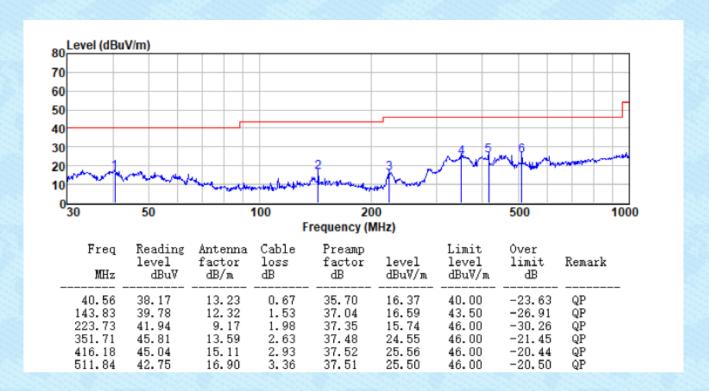
■ Below 30MHz

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.



30MHz ~ 1GHz

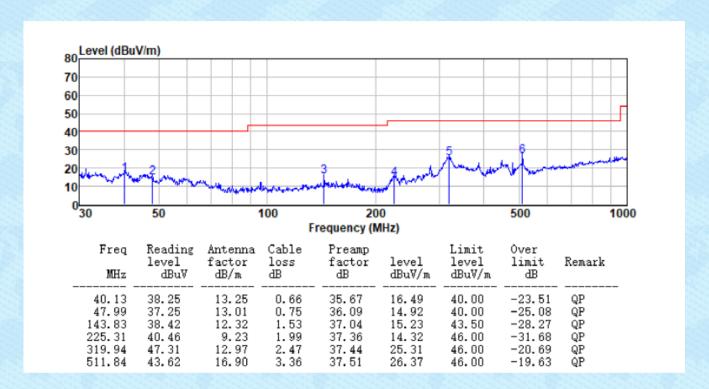
Test channel:	Lowest	Polarization:	Horizontal
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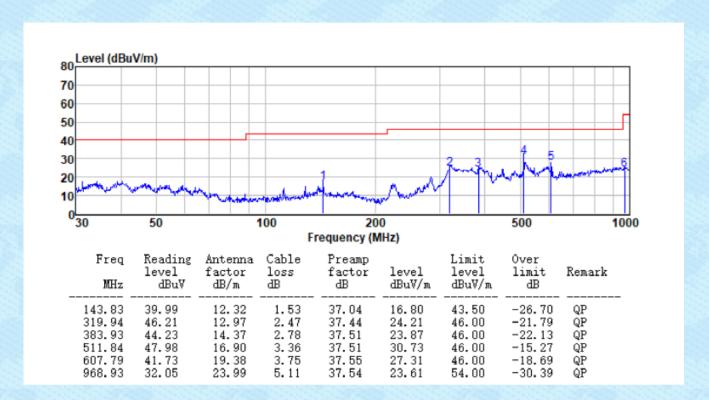


Test channel:	Lowest	Polarization:	Vertical
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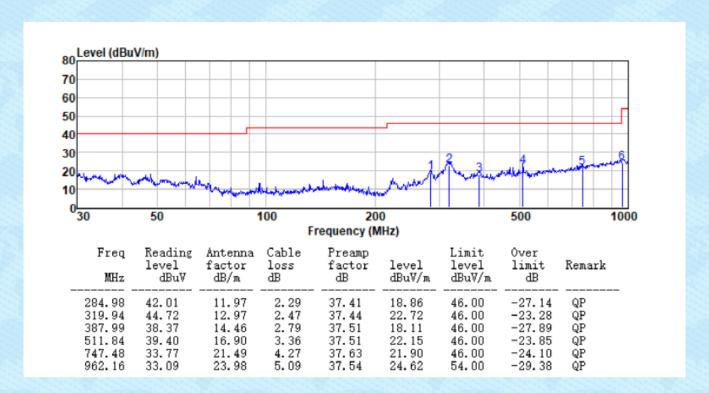


Test channel:	Middle	Polarization:	Horizontal
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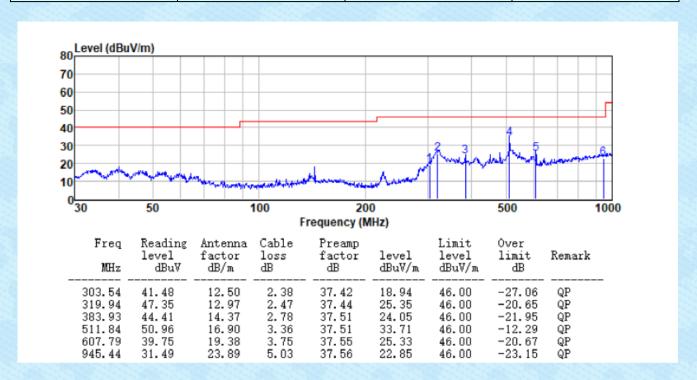


Test channel:	Middle	Polarization:	Vertical
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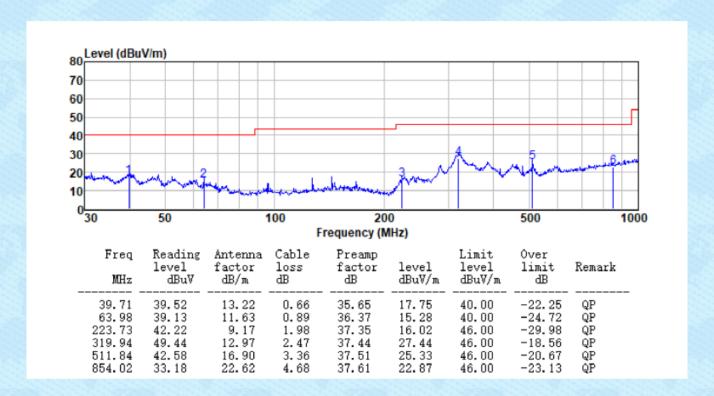


Test channel:	Highest	Polarization:	Horizontal
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Trigitott Trigitott Trigitott Trigitott		Test channel:	Highest	Polarization:	Vertical
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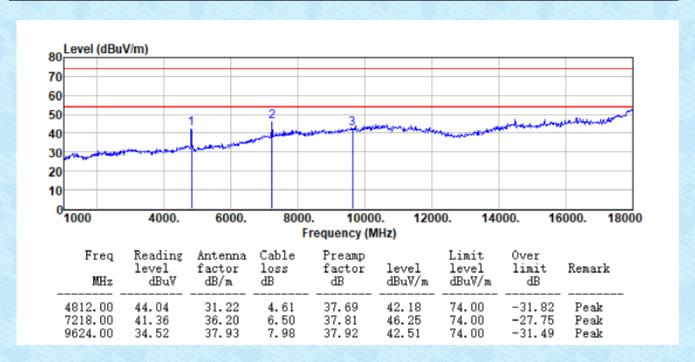




Unwanted Emissions in Restricted Frequency Bands

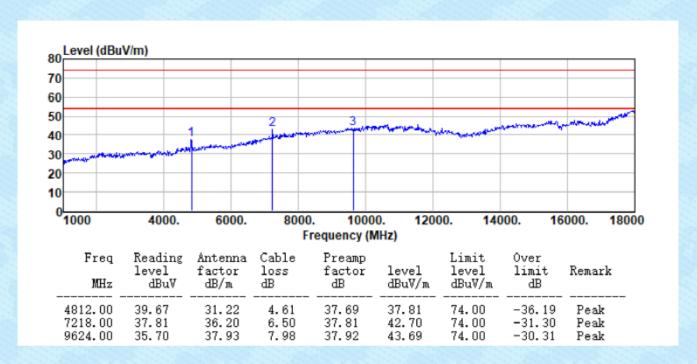
■ Above 1GHz

Test channel:	Lowest	Polarization:	Horizontal
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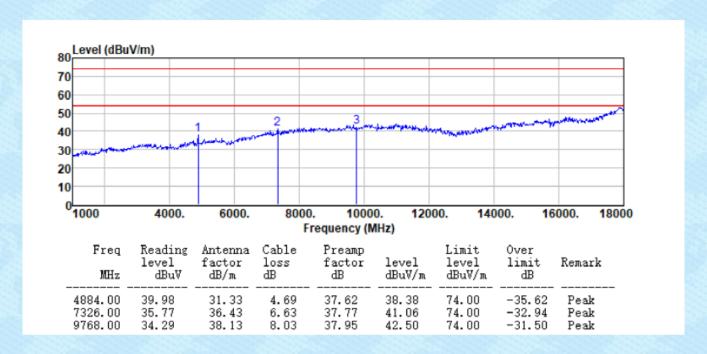
Test channel:	Lowest	Polarization:	Vertical
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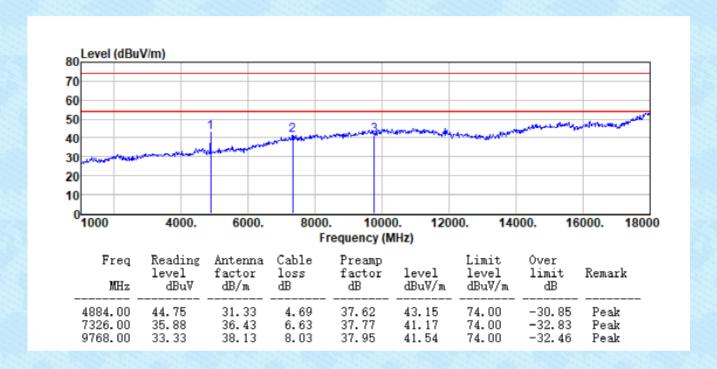


est channel:	Middle	Polarization:	Horizontal
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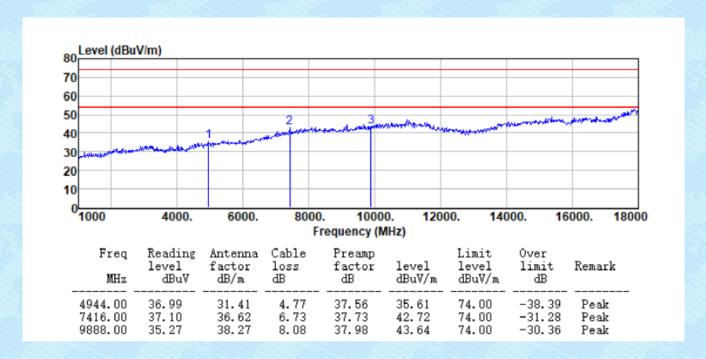


	Test channel:	Middle	Polarization:	Vertical	
--	---------------	--------	---------------	----------	--



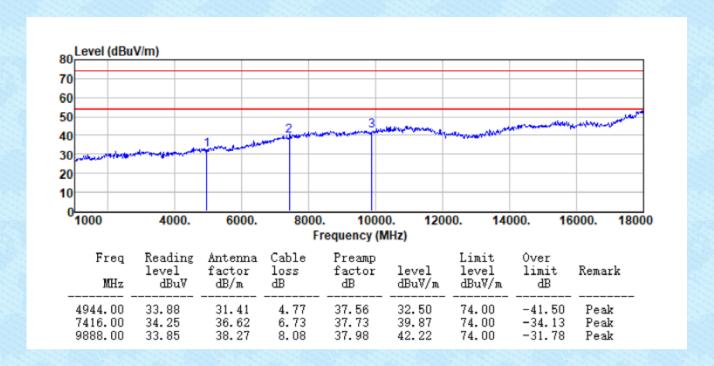


Test channel:	Highest	Polarization:	Horizontal
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Test channel: Highest Polarization: Vertical
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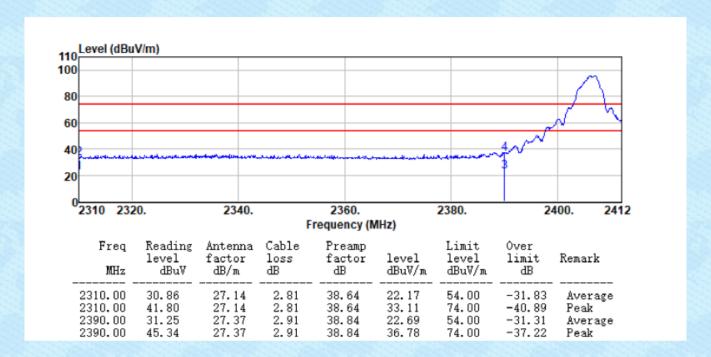
Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. For above 18GHz, no emission found.



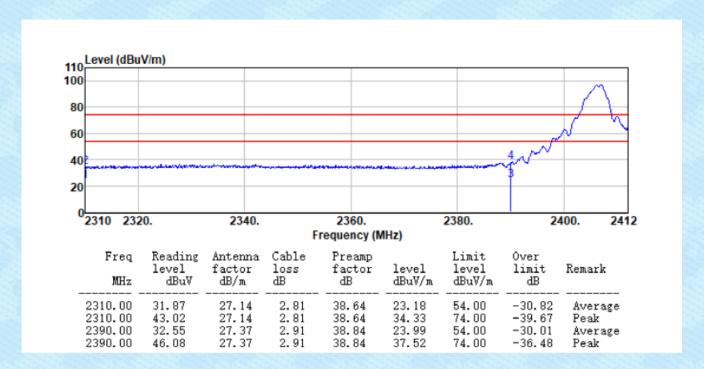
Unwanted Emissions in Non-restricted Frequency Bands





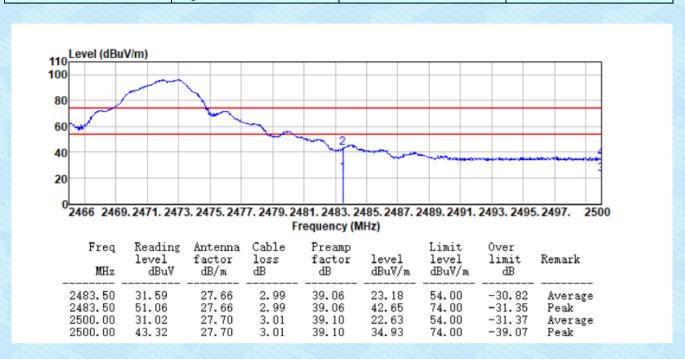


Test channel:	Lowest	Polarization:	Vertical	
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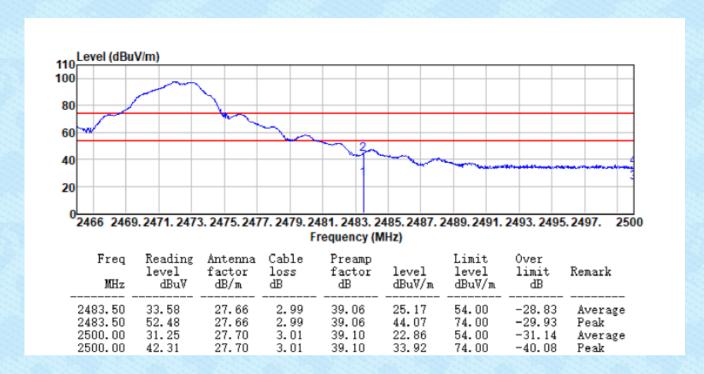


Test channel:	Highest	Polarization:	Horizontal	
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	Test channel:	Highest	Polarziation:	Vertical	
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Remarks:

- 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.

---End---