

Global United Technology Services Co., Ltd.

Report No.: GTS202203000145F01

TEST REPORT

Applicant: ShenZhen FLYSKY Technology Co.,Ltd

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

District, Shenzhen, Guangdong, China

ShenZhen FLYSKY Technology Co., Ltd Manufacturer:

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

District, Shenzhen, Guangdong, China Manufacturer:

Dongguan Flysky RC Model technology Co.,Ltd **Factory:**

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

Changping Town, Dongguan, China

Equipment Under Test (EUT)

Product Name: 3-CHANNELTRANSMITTER

Model No .: HRZ00020

FLYSKY Trade Mark:

FCC ID: 2A2UNHYMG400

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

Date of sample receipt: March 09, 2022

Date of Test: March 10-23, 2022

Date of report issued: March 23, 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. Page 1 of 35



2 Version

Version No.	Date	Description
00	March 23, 2022	Original

Prepared By:	Tranklu	Date:	March 23, 2022	
	Project Engineer			
Check By:	Johnson Lux	Date:	March 23, 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	N/A
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 0.15MHz ~ 30MHz 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:	3-CHANNELTRANSMITTER
Model No.:	HRZ00020
Serial No.:	NO.0I030759
Hardware version:	HY-MG4-V1.1
Software version:	HY-MG4 1.0.7
Test sample(s) ID:	GTS202203000145-1
Sample(s) Status	Engineer sample
Operation Frequency:	2408MHz~2475MHz
Channel numbers:	135
Modulation method:	FHSS
Modulation technology:	GFSK
Antenna Type:	PCB Antenna
Antenna gain:	1dBi
Power supply:	DC6V(4*1.5V Size"AA" Battery)

Remark: The system works in the frequency range of 2408MHz to 2475MHz. This band has been divided to 135 independent channels. Each radio system uses 16 different channels; the minimum channel separation is ≥2.008MHz. By using various switch-on times, hopping scheme and channel frequencies, the system can guarantee a jamming free radio transmission. The channel list is below.

The test frequencies are below:

Channel	Frequency
The lowest channel	2408MHz
The middle channel	2440MHz
The Highest channel	2475MHz



Operation F	Operation Frequency each of channel						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2408	36	2425.5	71	2443	106	2460.5
2	2408.5	37	2426	72	2443.5	107	2461
3	2409	38	2426.5	73	2444	108	2461.5
4	2409.5	39	2427	74	2444.5	109	2462
5	2410	40	2427.5	75	2445	110	2462.5
6	2410.5	41	2428	76	2445.5	111	2463
7	2411	42	2428.5	77	2446	112	2463.5
8	2411.5	43	2429	78	2446.5	113	2464
9	2412	44	2429.5	79	2447	114	2464.5
10	2412.5	45	2430	80	2447.5	115	2465
11	2413	46	2430.5	81	2448	116	2465.5
12	2413.5	47	2431	82	2448.5	117	2466
13	2414	48	2431.5	83	2449	118	2466.5
14	2414.5	49	2432	84	2449.5	119	2467
15	2415	50	2432.5	85	2450	120	2467.5
16	2415.5	51	2433	86	2450.5	121	2468
17	2416	52	2433.5	87	2451	122	2468.5
18	2416.5	53	2434	88	2451.5	123	2469
19	2417	54	2434.5	89	2452	124	2469.5
20	2417.5	55	2435	90	2452.5	125	2470
21	2418	56	2435.5	91	2453	126	2470.5
22	2418.5	57	2436	92	2453.5	127	2471
23	2419	58	2436.5	93	2454	128	2471.5
24	2419.5	59	2437	94	2454.5	129	2472
25	2420	60	2437.5	95	2455	130	2472.5
26	2420.5	61	2438	96	2455.5	131	2473
27	2421	62	2438.5	97	2456	132	2473.5
28	2421.5	63	2439	98	2456.5	133	2474
29	2422	64	2439.5	99	2457	134	2474.5
30	2422.5	65	2440	100	2457.5	135	2475
31	2423	66	2440.5	101	2458		
32	2423.5	67	2441	102	2458.5		
33	2424	68	2441.5	103	2459		
34	2424.5	69	2442	104	2459.5		
35	2425	70	2442.5	105	2460		



5.2 Test mode

Transmitting mode Keep the EUT in transmitting mode.

Remark: During the test, the duty cycle >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. New battery is used during all test.

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

None.

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		



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	General used equipment:						
Item Test Equipment Manufacturer Model No.				Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
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:

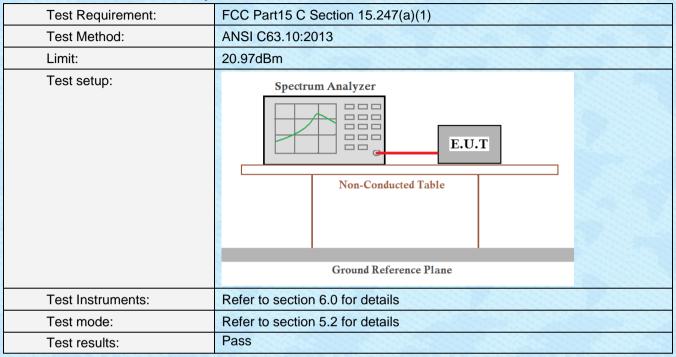
(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional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

EUT Antenna:

The antenna is PCB antenna, the best case gain of the antenna is 1dBi, reference to the appendix II for details.

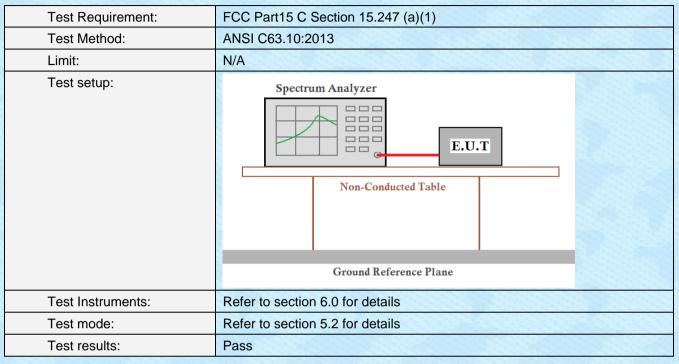


7.2 Conducted Peak Output Power



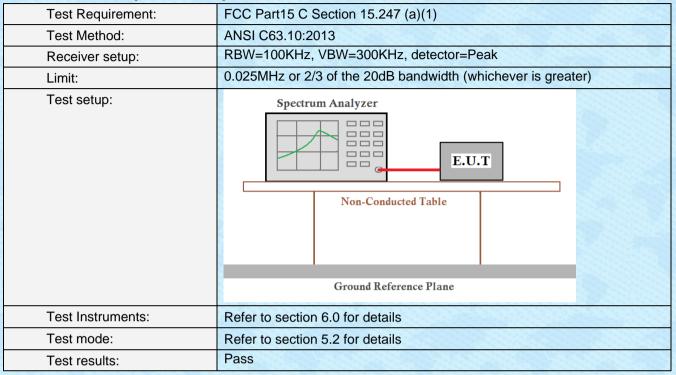


7.3 20dB Emission Bandwidth





7.4 Carrier Frequencies Separation



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

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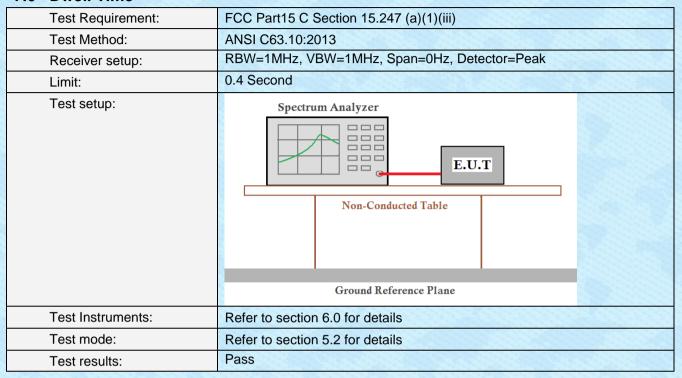


7.5 Hopping Channel Number

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		



7.6 Dwell Time





7.7 Spurious Emission in Non-restricted & restricted Bands

7.7.1 Conducted Emission Method

Test Requirement: FCC Part15 C Section 15.247 (d) Test Method: ANSI C63.10:2013 Receiver setup: In any 100 kHz bandwidth outside the frequency band in which the sp spectrum intentional radiator is operating, the radio frequency power to is produced by the intentional radiator shall be at least 20 dB below the the 100 kHz bandwidth within the band that contains the highest level the desired power, based on either an RF conducted or a radiated measurement. Test setup: Spectrum Analyzer
Receiver setup: RBW=100kHz, VBW=300kHz, Detector=Peak Limit: In any 100 kHz bandwidth outside the frequency band in which the sp spectrum intentional radiator is operating, the radio frequency power t is produced by the intentional radiator shall be at least 20 dB below the 100 kHz bandwidth within the band that contains the highest level the desired power, based on either an RF conducted or a radiated measurement. Test setup: Spectrum Analyzer Spectrum Analyzer
Limit: In any 100 kHz bandwidth outside the frequency band in which the sp spectrum intentional radiator is operating, the radio frequency power t is produced by the intentional radiator shall be at least 20 dB below th the 100 kHz bandwidth within the band that contains the highest level the desired power, based on either an RF conducted or a radiated measurement. Test setup: Spectrum Analyzer
spectrum intentional radiator is operating, the radio frequency power t is produced by the intentional radiator shall be at least 20 dB below th the 100 kHz bandwidth within the band that contains the highest level 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 section6.0 for details
Test mode: Refer to section 5.2 for details
Test results: Pass



7.7.2 Radiated Emission Method

Test Requirement:	1.1.2 Radiated Emission We	illou							
Test Frequency Range: 9kHz to 25GHz	Test Requirement:	FCC Part15 C Section 15.209 and 15.205							
Test site: Measurement Distance: 3m	Test Method:	ANSI C63.10:2013							
Frequency	Test Frequency Range:	9kHz to 25GHz							
9KHz-150KHz Quasi-peak 200Hz 600Hz Quasi-peak 150KHz-30MHz Quasi-peak 9KHz 30KHz Quasi-peak 30MHz-1GHz Quasi-peak 120KHz 300KHz Quasi-peak 120KHz 30KHz Peak 1MHz 10Hz Average 120KHz 40KHz 40KHz 10Hz Average 120KHz 240V/F(KHz) QP 300M 240V/F(KHz) QP 30V/F(KHz) 240V/F(KHz) 240V/F(KHz) QP 30V/F(KHz) 240V/F(KHz) 240V/F(KH	Test site:	Measurement Distar	nce: 3	3m					
150KHz-30MHz	Receiver setup:	Frequency	Г	etector	RBV	٧	VBW	Value	
30MHz-1GHz		9KHz-150KHz	Qι	asi-peak	200H	lz	600Hz	z Quasi-peak	
Above 1GHz		150KHz-30MHz	Qı	asi-peak	9KH	z	30KH	z Quasi-peak	
Above 1GHz		30MHz-1GHz	Qu	asi-peak	120K	Hz	300KH	Iz Quasi-peak	
Peak 1MHz 10Hz Average		Above 1GHz		Peak	1MH	lz	3MHz	z Peak	
Spurious Emissions Spurious Emissions Comparison		Above 10112		Peak	1MH	lz	10Hz	2 Average	
0.009MHz-0.490MHz		Frequency		Limit (u\	//m)	Va	alue		
1.705MHz-30MHz 30 QP 30m 30MHz-88MHz 100 QP 88MHz-216MHz 150 QP 216MHz-960MHz 200 QP 960MHz-1GHz 500 QP Above 1GHz 500 Average 5000 Peak Test setup: Below 30MHz Test Antenna	,	0.009MHz-0.490M	lHz	2400/F(k	(Hz)	C	QΡ	300m	
30MHz-88MHz 100 QP 88MHz-216MHz 150 QP 216MHz-960MHz 200 QP 960MHz-1GHz 500 QP Above 1GHz 500 Average 5000 Peak Test setup: Below 30MHz Test Antenna Test Antenna		0.490MHz-1.705MHz		24000/F(I	KHz)		QΡ	300m	
88MHz-216MHz		1.705MHz-30MHz		30		C	QΡ	30m	
216MHz-960MHz 200 QP 3m 960MHz-1GHz 500 QP Above 1GHz 5000 Average 5000 Peak Peak Test setup: Below 30MHz Tum Table Tum Table EUT Im Test Antenna Tum Table EUT Test Antenna Tum Table Tum Tab		30MHz-88MHz		100			QΡ		
960MHz-1GHz 500 QP Above 1GHz 500 Average 500 Peak Test setup: Below 30MHz Turn Table Turn Table Turn Table Turn Table		88MHz-216MHz		150			QΡ		
960MHz-1GHz 500 QP Above 1GHz 500 Average 5000 Peak Test setup: Below 30MHz		216MHz-960MH	Z	200		C	QΡ	3m	
Test setup: Below 30MHz Test Antenna Turn Table EUT- Turn Table		960MHz-1GHz		500	- 5			Oill	
Test setup: Below 30MHz Compared to the setup of the s		Above 1GHz		500		Ave	erage		
Tum Table EUT				5000		P	eak		
Below 1GHz	Test setup:	Tum Table Sum > 1		Test A	1m Ĵ		***************************************		



Report No.: GTS202203000145F01 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.: GTS202203000145F01
Test results:	Pass
Test voltage:	DC 6V

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

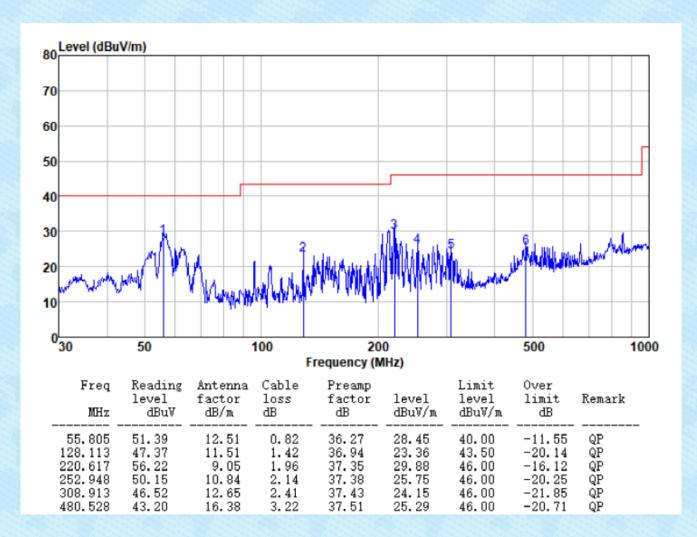
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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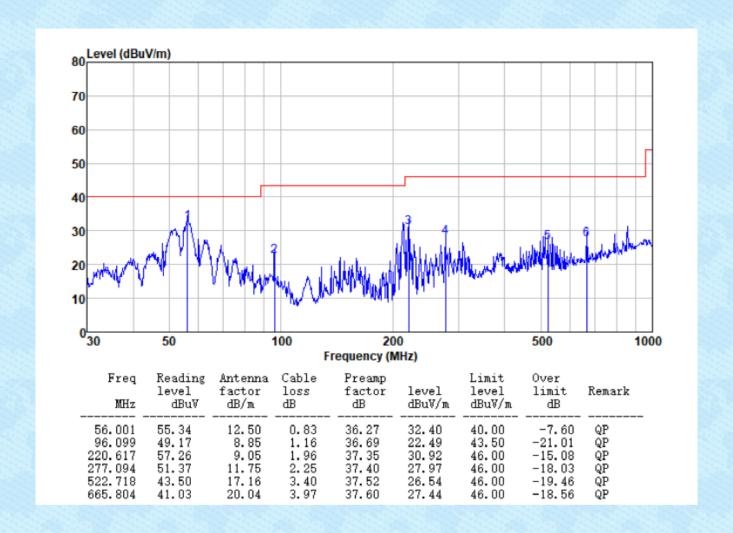


■ 30MHz ~ 1GHz

Test channel:	Lowest	Polarization:	Horizontal
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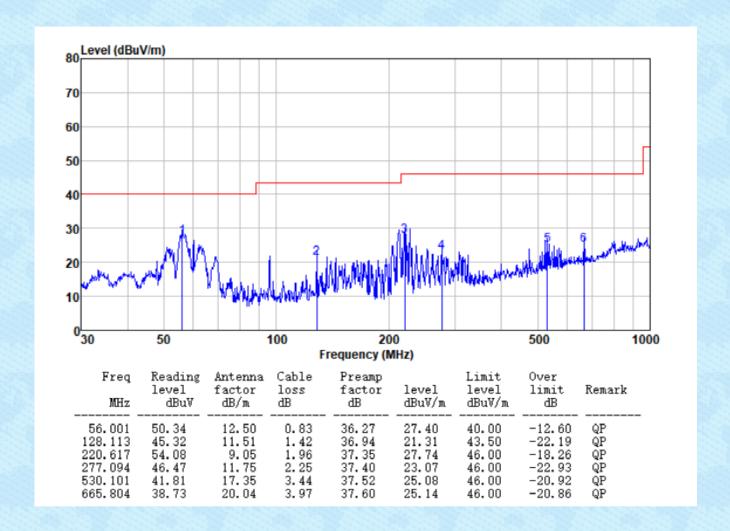






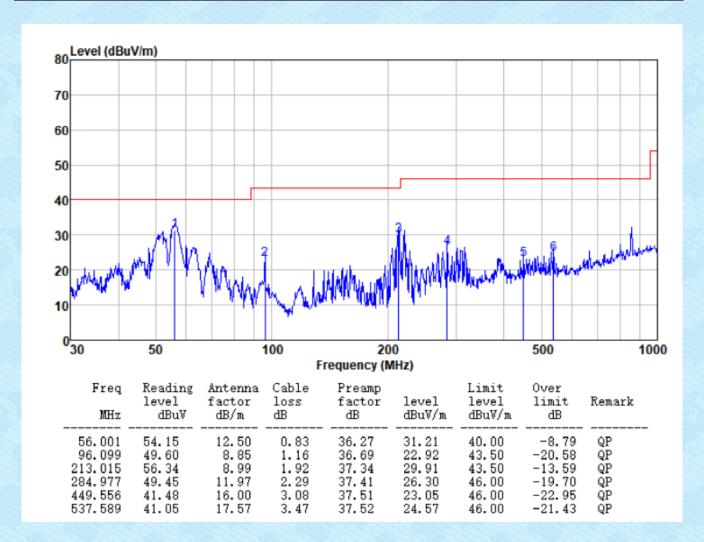


	Test channel:	Middle	Polarization:	Horizontal
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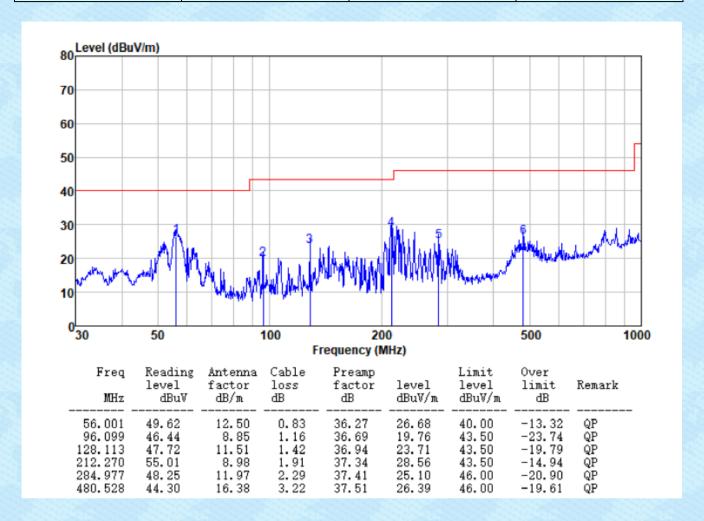


Test channel:	Middle	Polarization:	Vertical
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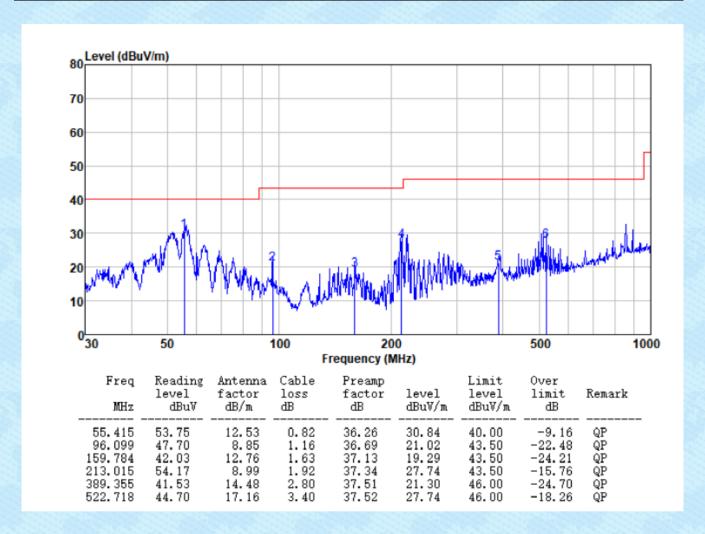


Test channel: Highest Polarization: Horizontal
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Test channel:	Highest	Polarization:	Vertical
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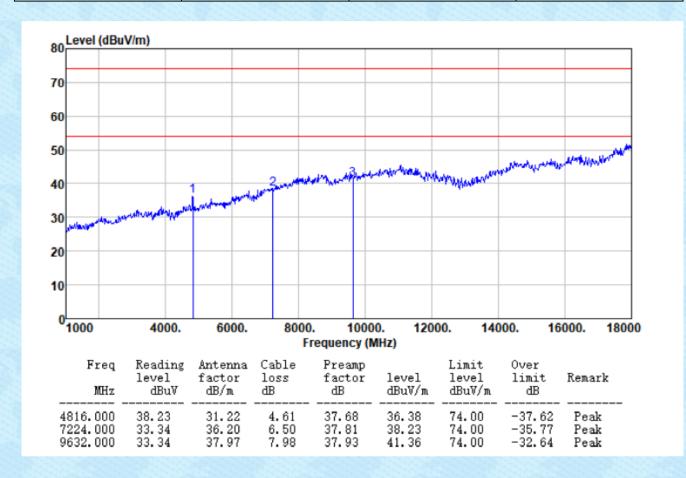




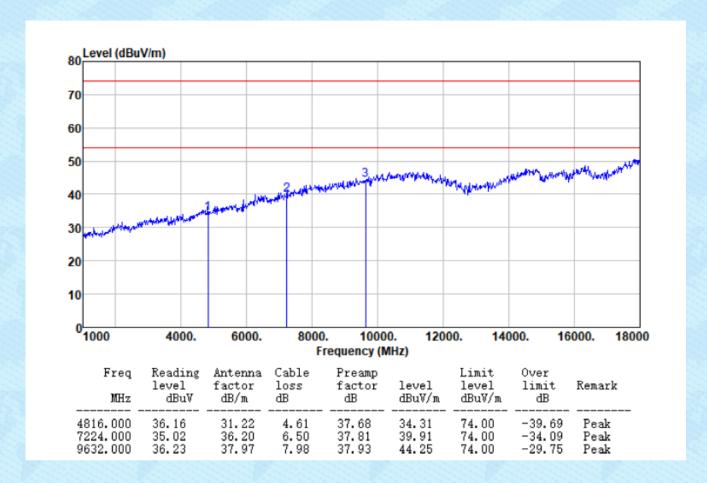
■ Unwanted Emissions in Restricted Frequency Bands

■ Above 1GHz

Test channel:	Lowest	Polarization:	Horizontal
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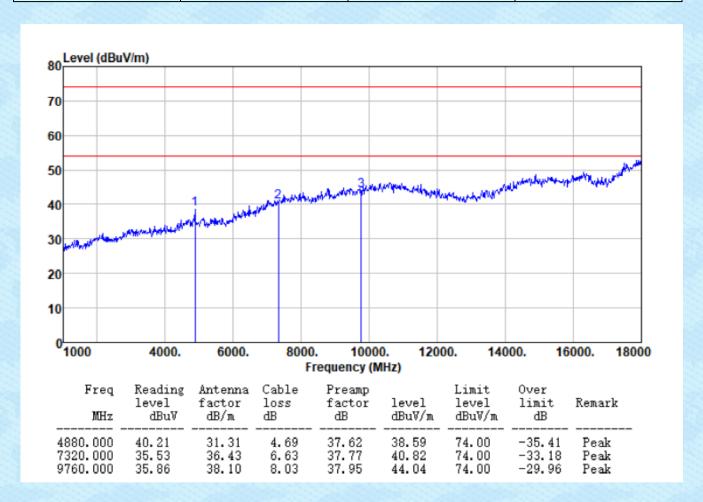






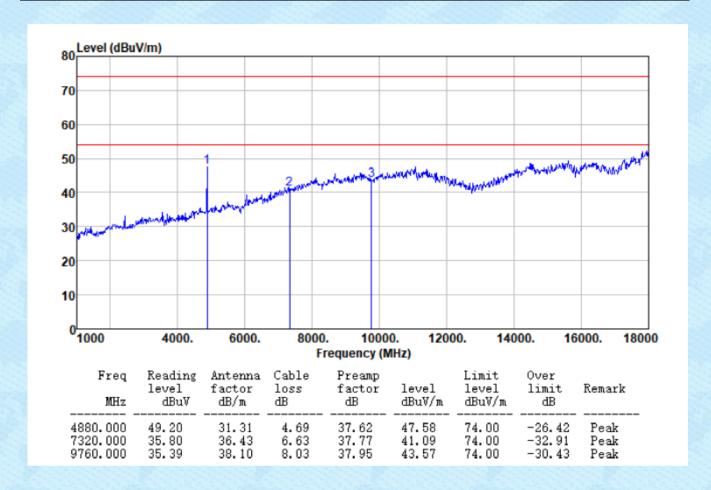


	Test channel:	Middle	Polarization:	Horizontal	
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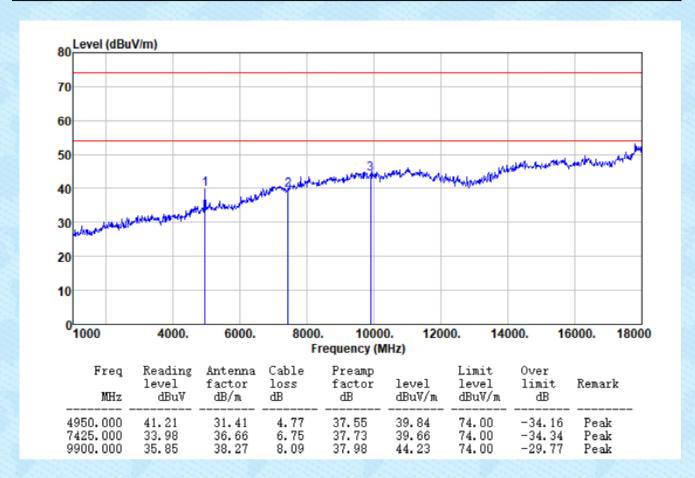


Test channel:	Middle	Polarization:	Vertical
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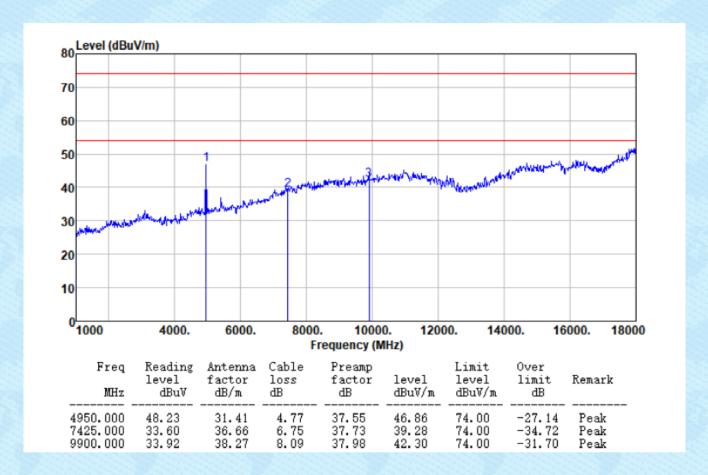


	Test channel:	Highest	Polarization:	Horizontal
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Test channel:	Highest	Polarization:	Vertical
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Remark:

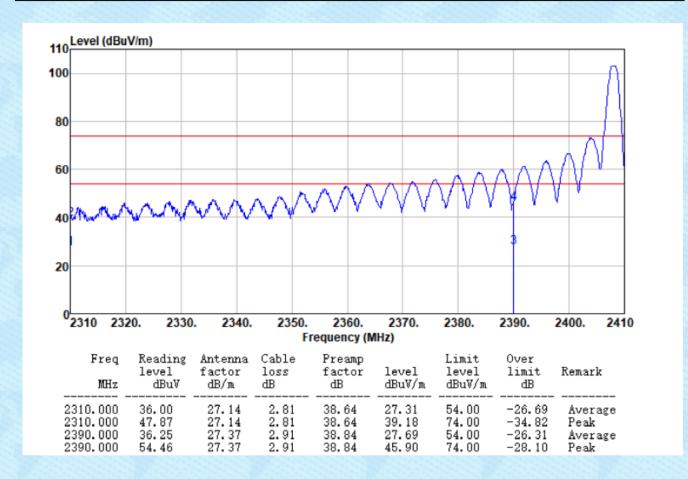
- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. For above 25GHz, no emission found.



Unwanted Emissions in Non-restricted Frequency Bands

Report No.: GTS202203000145F01

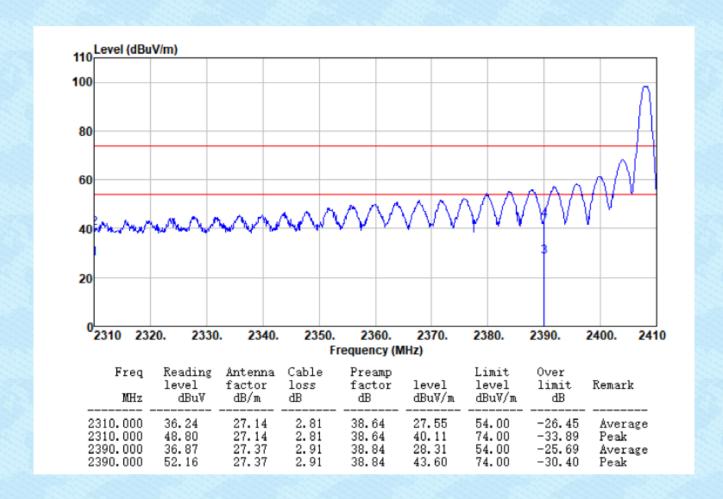
Test channel: Lowest Polarization: Horizontal



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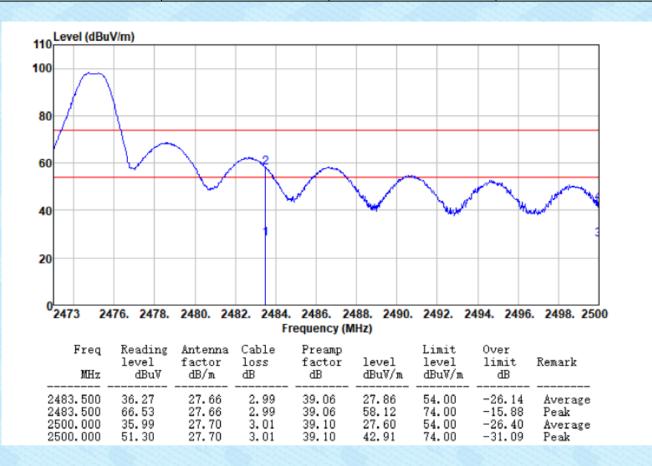
	Test channel:	Lowest	Polarization:	Vertical
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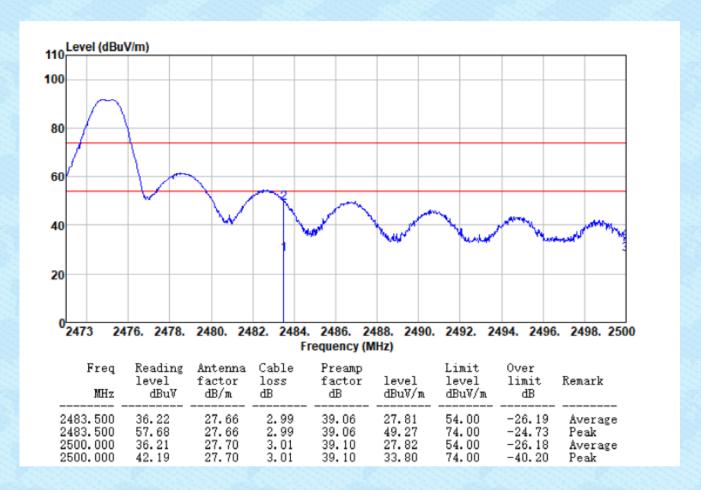
Test channel: Highest Polarization: Horizontal



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Test channel: Hi	lighest	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.
- 3. "*", means this data is the too weak instrument of signal is unable to test.

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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