

# Global United Technology Services Co., Ltd.

Report No.: GTS2023040438F01

## **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:** 4-CHANNEL RECEIVER

Model No .: FS-R4D-ESC-BS

Trade Mark: **FLYSKY** 

FCC ID: 2A2UNR4DESC01

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

Date of sample receipt: April 24, 2023

**Date of Test:** April 24-28, 2023

Date of report issued: April 28, 2023

Test Result: PASS \*

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

Authorized Signature:

Robinson Luo 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 38



## 2 Version

Version No.	Date	Description
00	April 28, 2023	Original

Prepared By:	Tranklu	Date:	April 28, 2023	
	Project Engineer			
Check By:	Johnson Lun	Date:	April 28, 2023	
	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  0.15MHz ~ 30MHz 3.44dB				
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:	4-CHANNEL RECEIVER
Model No.:	FS-R4D-ESC-BS
Serial No.:	RD1001467
Hardware version:	V1.0
Software version:	V1.0.2
Test sample(s) ID:	GTS2023040438-1
Sample(s) Status	Engineer sample
Operation Frequency:	2408MHz~2475MHz
Channel numbers:	135
Modulation method:	FHSS
Modulation technology:	GFSK
Antenna Type:	Coaxial antenna
Antenna gain:	-1.11dBi
Power supply:	DC 6V~13.32V

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 ≥1.2MHz. 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.

#### The test frequencies are below:

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



Operation F	requency eac	h 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 is adjusted from DC6V to DC13.32V, and found that the worst case was DC8.4V. 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	Description	Model	Serial Number	
ShenZhen FLYSKY Technology Co.,Ltd	Remote control	G4P	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

	0 Test instruments list							
Rad	iated 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	April 21, 2023	April 20, 2024		
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 21, 2023	April 20, 2024		
9	Coaxial Cable	GTS	N/A	GTS211	April 21, 2023	April 20, 2024		
10	Coaxial cable	GTS	N/A	GTS210	April 21, 2023	April 20, 2024		
11	Coaxial Cable	GTS	N/A	GTS212	April 21, 2023	April 20, 2024		
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	April 21, 2023	April 20, 2024		
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 21, 2023	April 20, 2024		
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 21, 2023	April 20, 2024		
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 21, 2023	April 20, 2024		



Con	ducted 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 23, 2023	April 22, 2024
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 21, 2023	April 20, 2024
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 27, 2023	April 26, 2024
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	April 14, 2023	April 13, 2024
9	ISN	SCHWARZBECK	NTFM 8158	GTS565	April 21, 2023	April 20, 2024
10	High voltage probe	SCHWARZBECK	TK9420	GTS537	April 21, 2023	April 20, 2024

RF C	RF Conducted Test:							
Item	Test Equipment	Manufacturer	Model No.	Model No. Serial No.		Cal.Due date (mm-dd-yy)		
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	April 21, 2023	April 20, 2024		
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 21, 2023	April 20, 2024		
3	Spectrum Analyzer	Agilent	E4440A	GTS536	April 21, 2023	April 20, 2024		
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April 21, 2023	April 20, 2024		
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April 21, 2023	April 20, 2024		
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April 21, 2023	April 20, 2024		
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April 21, 2023	April 20, 2024		
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	April 21, 2023	April 20, 2024		

Ger	General 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 23, 2023	April 22, 2024
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.

#### **EUT Antenna:**

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



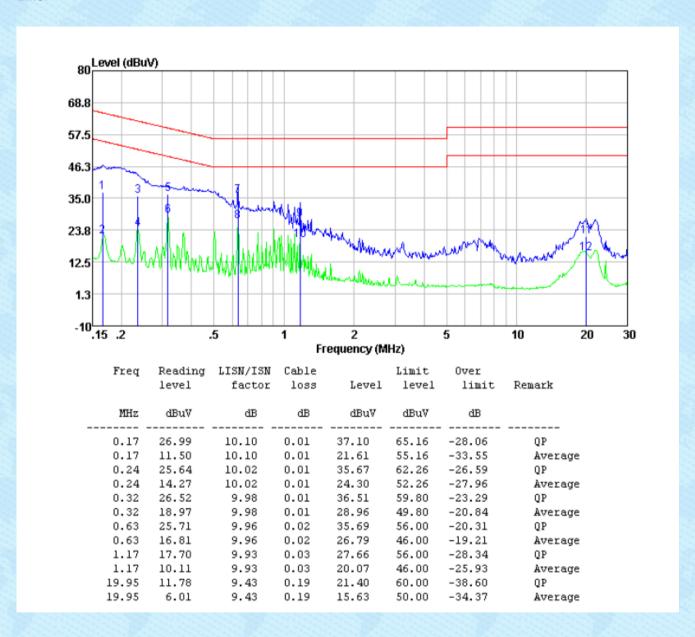
## 7.2 Conducted Emissions

7.2 Oondacted Emissions					
Test Requirement:	FCC Part15 C Section 15.20	FCC Part15 C Section 15.207			
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	150KHz to 30MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9KHz, VBW=30KHz, S	Sweep time=auto			
Limit:		Limit	(dBuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarith	m of the frequency.			
Test setup:	Reference Plan	e			
	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				
Test procedure:	<ol> <li>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.</li> <li>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).</li> <li>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 C63.10:2013 on conducted measurement.</li> </ol>				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for detail	ls			
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1012mbar				
Test results:	Pass				
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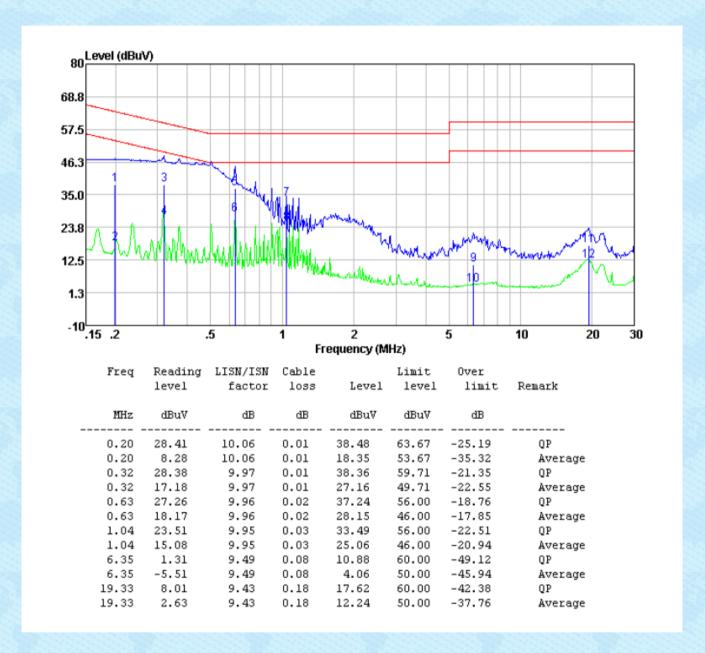
#### Measurement data

Line:





#### Neutral:

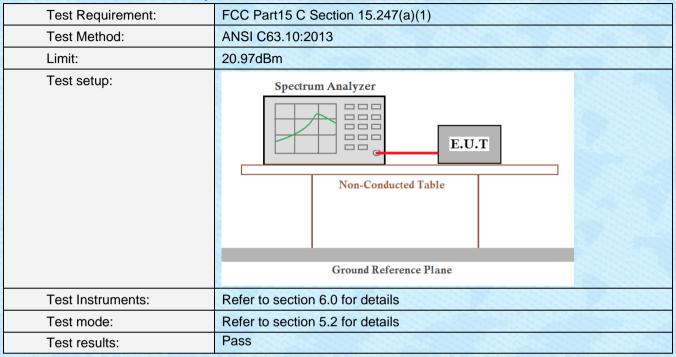


#### Notes:

- 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.



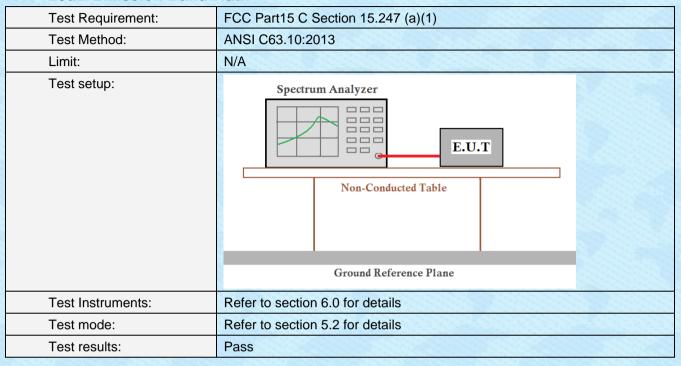
## 7.3 Conducted Peak Output Power



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



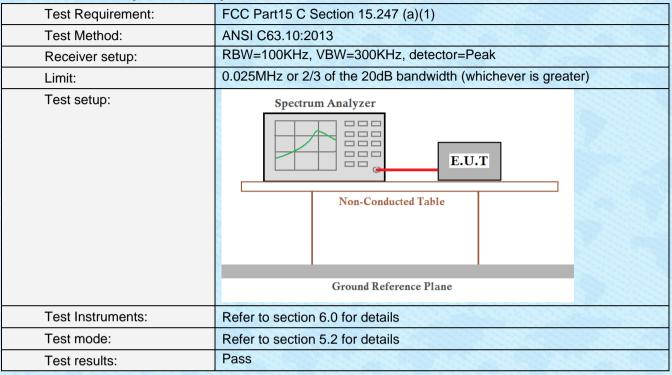
## 7.4 20dB Emission Bandwidth



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



## 7.5 Carrier Frequencies Separation



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

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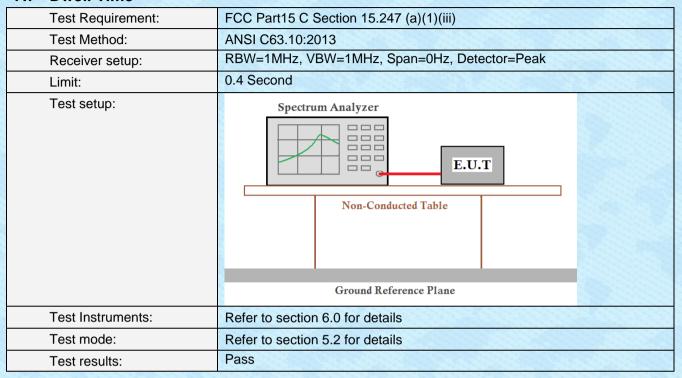
## 7.6 Hopping Channel Number

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)		
Test Method:	ANSI C63.10:2013  RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak		
Receiver setup:			
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)			
8	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			
3	Test results:	Pass			

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



## 7.8.2 Radiated Emission Method

FCC Part15 C Section 15.209 and 15.205				
ANSI C63.10:2013				
9kHz to 25GHz				
Measurement Distar	nce: 3m			
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	z Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KH	z Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KH	Iz Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	z Peak
Above Toriz	Peak	1MHz	10Hz	Average
Frequency	Limit (u'	V/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	z 30		QP	30m
30MHz-88MHz	100		QP	
88MHz-216MHz	150		QP	
216MHz-960MH	z 200		QP	3m
960MHz-1GHz				
Above 1GHz				
	5000	)	Peak	
Below 30MHz  Test Antenna  Tum Table    Receiver   Receiver      Receiver   Receiver   Receiver				
	ANSI C63.10:2013 9kHz to 25GHz Measurement Distant Frequency 9KHz-150KHz 150KHz-30MHz 30MHz-1GHz Above 1GHz Frequency 0.009MHz-0.490M 0.490MHz-1.705MHz 30MHz-30MH 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz Below 30MHz	ANSI C63.10:2013  9kHz to 25GHz  Measurement Distance: 3m  Frequency Detector  9KHz-150KHz Quasi-peak  150KHz-30MHz Quasi-peak  30MHz-1GHz Quasi-peak  Above 1GHz Peak  Frequency Limit (u)  0.009MHz-0.490MHz 2400/F(1)  0.490MHz-1.705MHz 24000/F(1)  1.705MHz-30MHz 30  30MHz-88MHz 100  88MHz-216MHz 150  216MHz-960MHz 200  960MHz-1GHz 500  Above 1GHz 5000  Below 30MHz	FCC Part15 C Section 15.209 and 15.205  ANSI C63.10:2013  9kHz to 25GHz  Measurement Distance: 3m  Frequency Detector RBW  9KHz-150KHz Quasi-peak 200Hz  150KHz-30MHz Quasi-peak 9KHz  30MHz-1GHz Quasi-peak 120KHz  Above 1GHz Peak 1MHz  Frequency Limit (uV/m)  0.009MHz-0.490MHz 2400/F(KHz)  0.490MHz-1.705MHz 24000/F(KHz)  1.705MHz-30MHz 30  30MHz-88MHz 100  88MHz-216MHz 150  216MHz-960MHz 200  960MHz-1GHz 500  Above 1GHz 500  Below 30MHz  Tum Table EUT-  Tum Table 500  Below 30MHz	ANSI C63.10:2013  9kHz to 25GHz  Measurement Distance: 3m  Frequency Detector RBW VBW  9KHz-150KHz Quasi-peak 200Hz 600Hz  150KHz-30MHz Quasi-peak 9KHz 30KHz  30MHz-1GHz Quasi-peak 120KHz 300KHz  Above 1GHz Peak 1MHz 3MHz  Peak 1MHz 10Hz  Frequency Limit (uV/m) Value  0.009MHz-0.490MHz 2400/F(KHz) QP  0.490MHz-1.705MHz 24000/F(KHz) QP  1.705MHz-30MHz 30 QP  30MHz-88MHz 100 QP  88MHz-216MHz 150 QP  216MHz-960MHz 200 QP  960MHz-1GHz 500 QP  Above 1GHz 500 Average  5000 Peak  Below 30MHz



Report No.: GTS2023040438F01 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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9		Report No.: GTS2023040438F01
	Test results:	Pass

#### Remark:

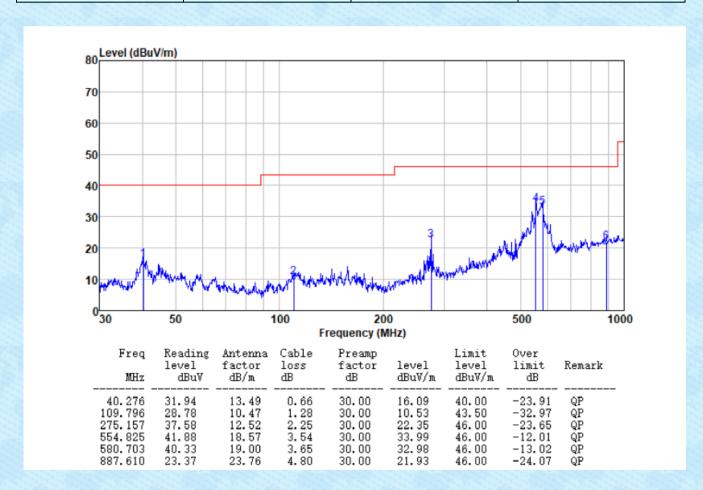
1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

#### Measurement data:

#### ■ Below 30MHz

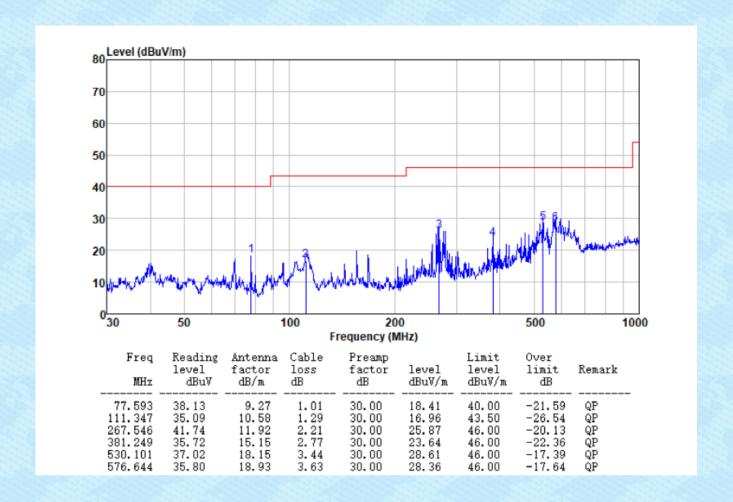
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

30MHz ~ 1GHz





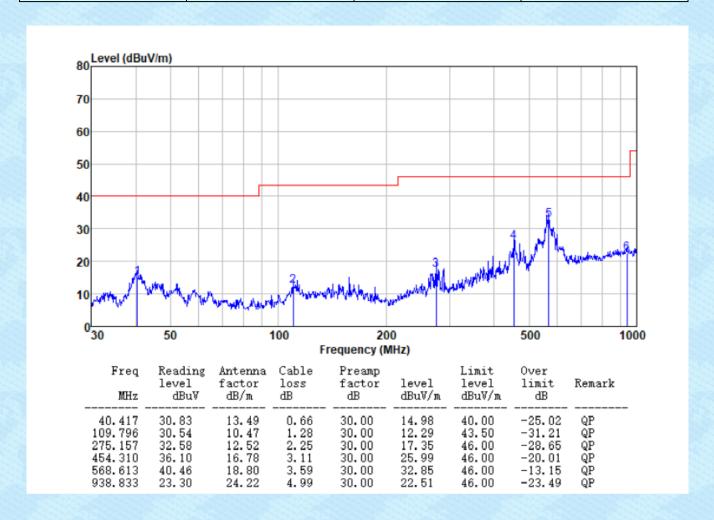
Test channel:	Lowest	Polarization:	Vertical
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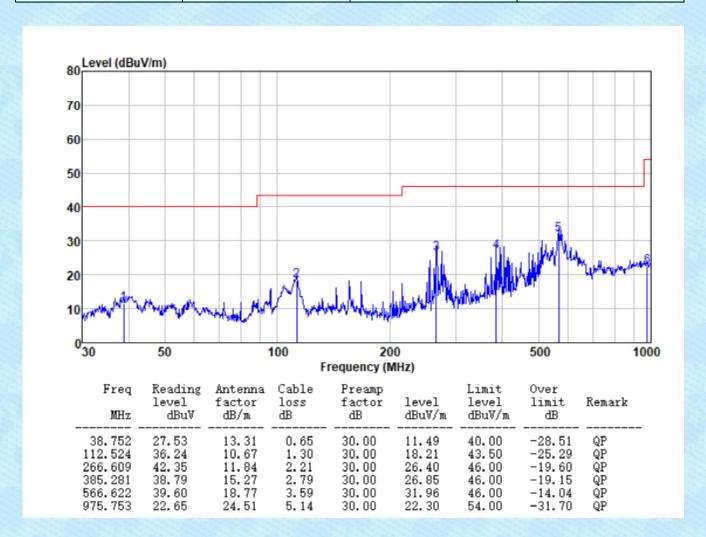


Test channel:	Middle	Polarization:	Horizontal
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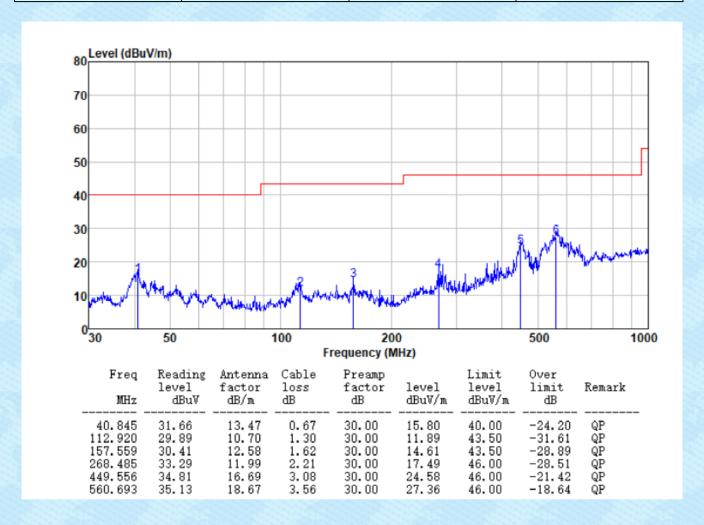


Test channel:	Middle	Polarization:	Vertical
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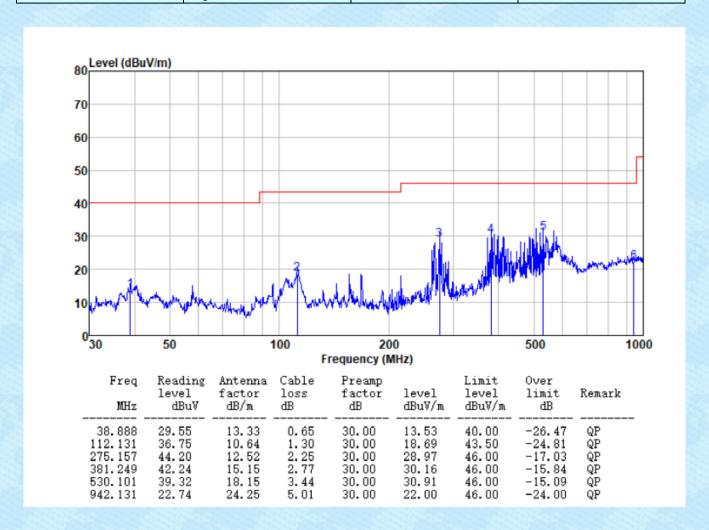


Test channel:	Highest	Polarization:	Horizontal
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Test channel:	Highest	Polarization:	Vertical
---------------	---------	---------------	----------



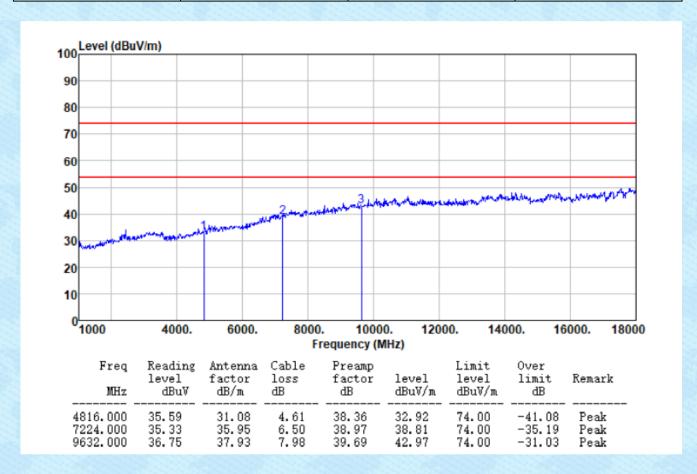
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#### ■ Unwanted Emissions in Restricted Frequency Bands

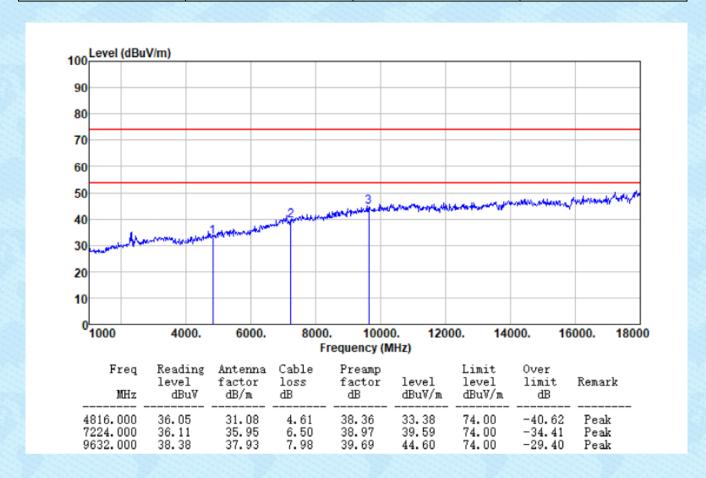
■ Above 1GHz

Test channel:	Lowest	Polarization:	Horizontal
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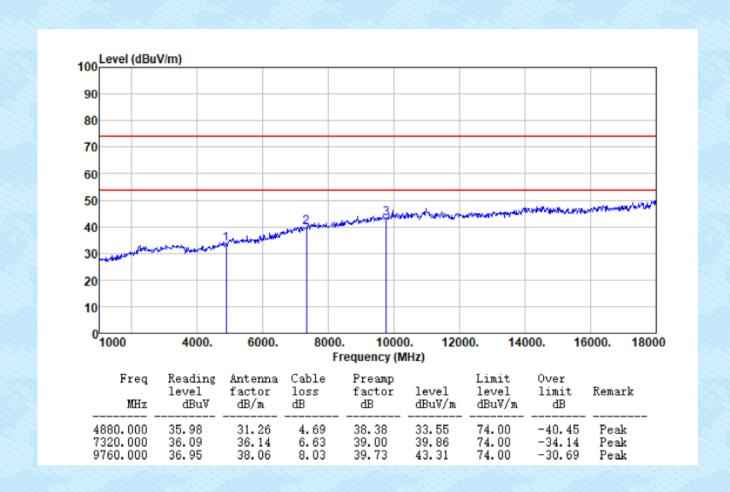


Test channel:	Lowest	Polarization:	Vertical
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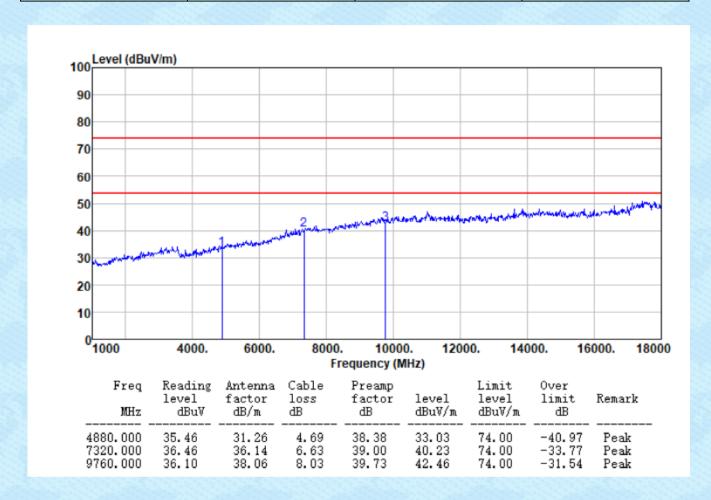
	Test channel:	Middle	Polarization:	Horizontal	
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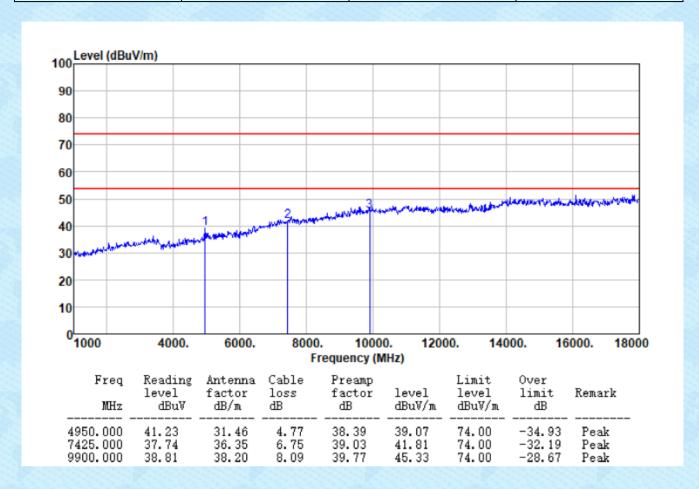


Test channel:	Middle	Polarization:	Vertical
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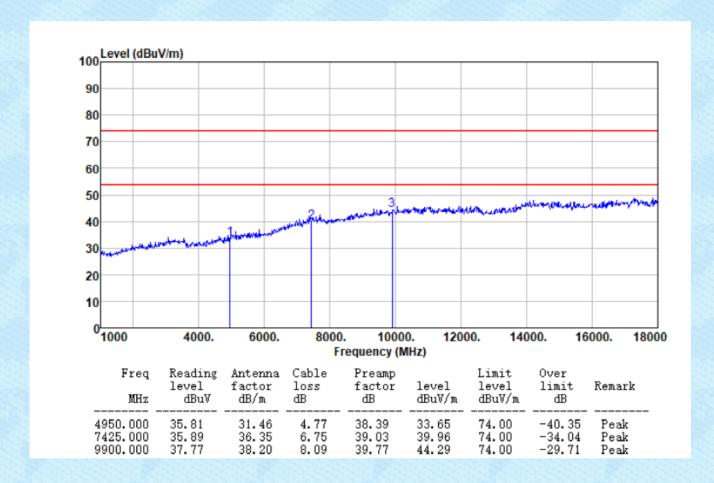


Test channel:	Highest	Polarization:	Horizontal
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Test channel:	Highest	Polarization:	Vertical
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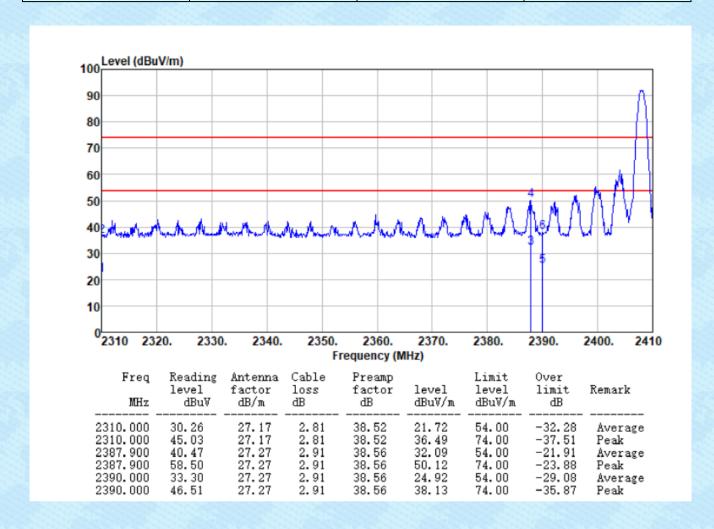
#### Remark:

- 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 18GHz, no emission found.



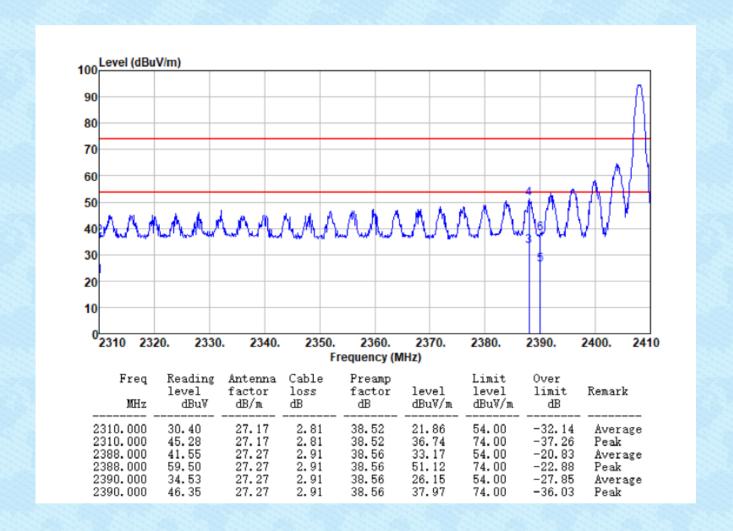
#### **Unwanted Emissions in Non-restricted Frequency Bands**

Test channel:	Lowest	Polarization:	Horizontal
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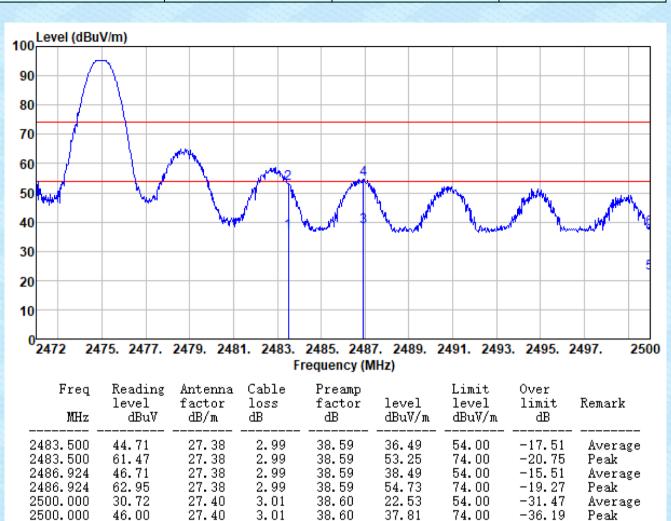


Test channel:	Lowest	Polarization:	Vertical	
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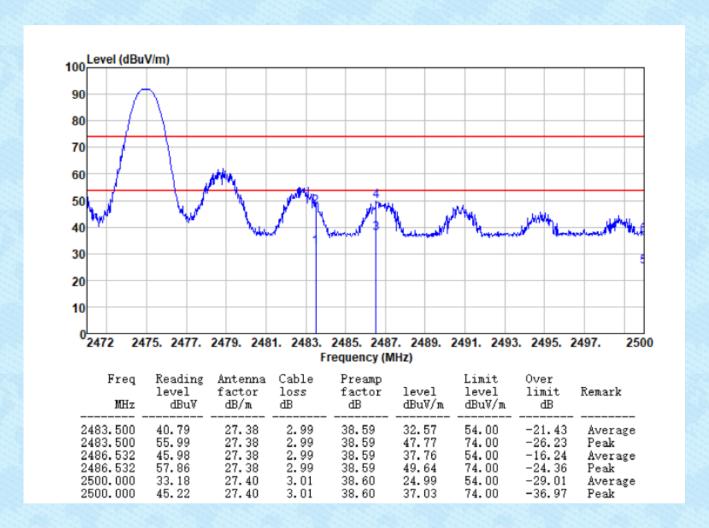


Test channel: Highest Polarization: Horizontal





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.



## 8 Test Setup Photo

Reference to the appendix I for details.

## 9 EUT Constructional Details

Reference to the appendix II for details.

---End---