Report No.: NTC1612213F FCC ID: 2AGLG-TM181G



RADIO TEST REPORT

The device described below is tested by Dongguan Nore Testing Center Co., Ltd. to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and E.U.T.'s performance criterion. The test results, data evaluation, test procedures, and equipment of configurations shown in this report were made in accordance with the procedures in ANSI C63.10(2013).

Applicant/Manufacturer : DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.

Address : 262 Shidan Rd., 3rd Industrial Area, Juzhou, Shijie Town, Dongguan City,

China

Factory : DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.

Address : 262 Shidan Rd., 3rd Industrial Area, Juzhou, Shijie Town, Dongguan City,

China

E.U.T. : Wireless Mouse

Brand Name : N/A

Model No. : TM181G

FCC ID : 2AGLG-TM181G

Measurement Standard : FCC PART 15.249: 2016

Date of Receiver : December 27, 2016

Date of Test : December 27, 2016 to January 12, 2017

Date of Report : January 12, 2017

This Test Report is Issued Under the Authority of :

Prepared by

Rose Hu / Engineer

B TATA

ed Signer

Iori Fap/ Authorized Signatory

This test report is for the customer shown above and their specific product only. This report applies to above tested sample only and shall not be reproduced in part without written approval of Dongguan Nore Testing Center Co., Ltd.

Dongguan Nore Testing Center Co., Ltd. Report No.: NTC1612213F FCC ID: 2AGLG-TM181G



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Revision History of This Test Report

Report Number	Description	Issued Date
NTC1612213F	Initial Issue	2017-01-12

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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test

This device is a wireless mouse, it's powered by 2* DC 1.5V AAA battery. For more details features, please refer to User's Manual.

Product Name : Wireless Mouse

Model Name : TM181G

Model Difference

Description

: None

Power Supply : 2* DC 1.5V AAA Battery

Test Voltage : 2* DC 1.5V AAA Battery

Technical Specification:

2.4G Function:

Frequency Range : 2408~2474MHz

Modulation Type : GFSK

Number of Channel : 34

Channel Space : 2MHz

Antenna Type : PCB

Antenna Gain : -5.35 dBi (Declaration by manufacturer)

Hardware version : A0

Software version : A0

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Channel List:

Channel	Frequency MHz	Channel	Frequency MHz	Channel	Frequency MHz
1	2408	13	2432	25	2456
2	2410	14	2434	26	2458
3	2412	15	2436	27	2460
4	2414	16	2438	28	2462
5	2416	17	2440	29	2464
6	2418	18	2442	30	2466
7	2420	19	2444	31	2468
8	2422	20	2446	32	2470
9	2424	21	2448	33	2472
10	2426	22	2450	34	2474
11	2428	23	2452		
12	2430	24	2454		

Note: The Lowest, middle, and the Highest frequency of channel were selected to perform the test. The frequency selected see below:

The Lowest frequency: 2408MHz The middle frequency: 2440MHz The Highest frequency: 2474MHz

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2AGLG-TM181G filing to comply with Section 15.249 of the FCC Part 15 (2016), Subpart C Rule.

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters.

1.4 Equipment Modifications

Not available for this EUT intended for grant.

1.5 Support Device

None

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1.6 Test Facility and Location

Listed by CNAS, August 14, 2015
The certificate is valid until August 13, 2018
The Laboratory has been assessed and proved to be in compliance with CNAS/CL01
The Certificate Registration Number is L5795.

Listed by FCC, July 03, 2014
The Certificate Registration Number is 665078.
Listed by Industry Canada, June 18, 2014
The Certificate Registration Number is 46405-9743.

Dongguan NTC Co., Ltd. (Full Name: Dongguan Nore Testing Center Co., Ltd.)

Building D, Gaosheng Science and Technology Park, Hongtu Road, Nancheng District, Dongguan City, Guangdong, China (Full Name: Building D, Gaosheng Science & Technology Park, Zhouxi Longxi Road, Nancheng District, Dongguan, Guangdong, China.

Report No.: NTC1612213F FCC ID: 2AGLG-TM181G

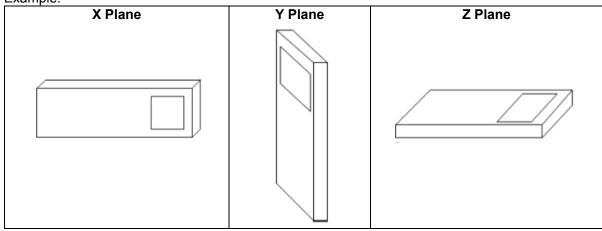


1.7 Summary of Test Results

FCC Rules	Description Of Test	Uncertainty	Result
§15.207(a)	AC Power Conducted Emission	±1.06dB	N/A Note
§15.249(a)/ 15.209	Radiated Emissions	±3.70dB	Compliant
§15.249(d)/ 15.205	Band Edge	±1.70dB	Compliant
§15.215(c)	20dB Bandwidth	±1.42 x10 ⁻⁴ %	Compliant
§15.203	Antenna Requirement		Compliant

- Note: 1. The EUT powered by battery and operating multiple positions, so the EUT shall be performed three orthogonal planes. The worst plane is Z.
 - 2. Due to this EUT is powered by battery only, (the new battery is used during the measurement) the AC Power Conducted Emission is not applicable.

Example:



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2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 Special Accessories

Not available for this EUT intended for grant.

2.3 Description of test modes

The EUT has been tested under operating condition. The Lowest, middle and highest frequencies were chosen for testing.

2.4 EUT Exercise

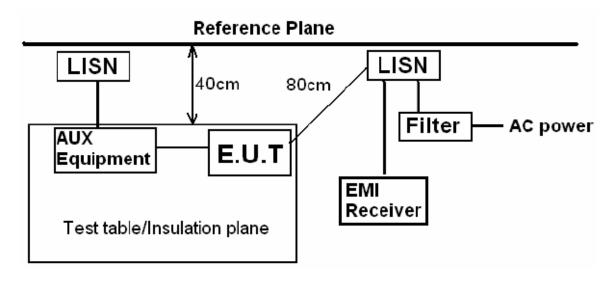
The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

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3. Conducted Emissions Test

3.1 Test SET-UP (Block Diagram of Configuration)



3.2 Test Condition

Test Requirement: FCC Part 15.207

Frequency Range: 150KHz ~ 30MHz

Detector: RBW 9KHz, VBW 30KHz

Operation Mode: TX

3.3 Measurement Results

No Applicable.

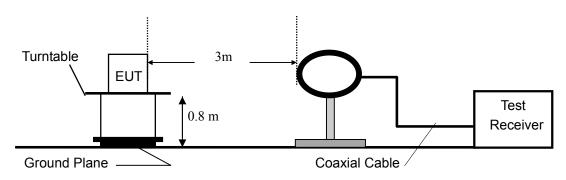
FCC ID: 2AGLG-TM181G

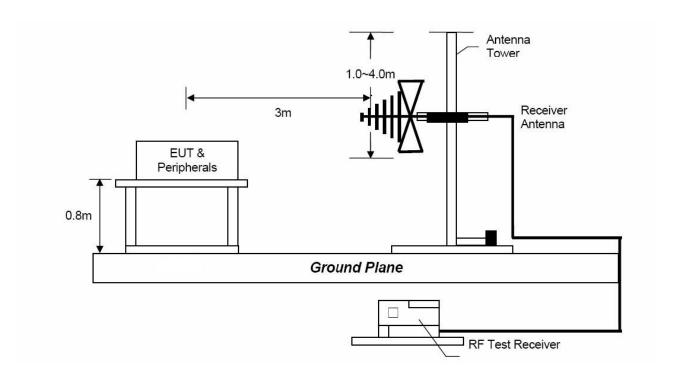


4. Radiated Emission Test

4.1 Test SET-UP (Block Diagram of Configuration)

4.1.1 Radiated Emission Test Set-Up, Frequency Below 30MHz

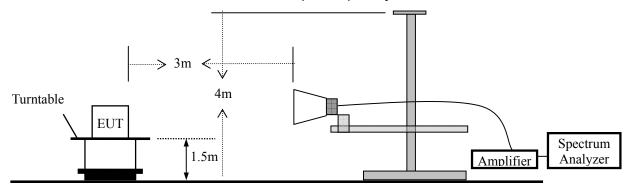




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4.1.2 Radiated Emission Test Set-Up, Frequency above 1GHz



4.2 Measurement Procedure

- a. Blow 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- b. For the radiated emission test above 1GHz:
 - The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The height of antenna 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.
- e. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

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During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Level	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
Above 1000	Average	1 MHz	10 Hz

4.3 Limit

Frequency range	Distance Meters	Field Strengths Limit (15.209)		
MHz		μV/m		
0.009 ~ 0.490	300	2400/F	(kHz)	
0.490 ~ 1.705	30	24000/	F(kHz)	
1.705 ~ 30	30	30)	
30 ~ 88	3	10	0	
88 ~ 216	3	15	0	
216 ~ 960	3	200		
Above 960	3	50	0	
Frequency range	Distance Meters	Field Strengths	Limit (15.249)	
MHz		mV/m	μV/m	
		(Field strength of	(Field strength of	
		fundamental)	Harmonics)	
902 ~ 928	3	50	500	
2400 ~ 2483.5	3	50	500	
5725 ~ 5875	3	50	500	
24000 ~ 2425000	3	250	2500	

Remark : (1) Emission level (dB) μ V = 20 log Emission level μ V/m

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
- (4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

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4.4 Measurement Results

Please refer to following the test plots of the worst case: High channel.

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Site: Conduction



Dongguan NTC Co., Ltd.
Tel: +86-769-22022444 Fax: +86-769-22022799

Note Testing Center Web: Http://www.ntc-c.com

Test Time: 2017-1-4 11:11:22 80.0 dBuV/m FCC Part 15B_Class B_3M Margin -6 dB 40 & Mary makey the house

					3 MANUTAN MAN	apalasterista	the sunflipsed	- proposition of the	,AAA-1904-440-430-440	(Allen al. a. a.	
	North Mary Control of the Nation	adadining managini	TYPE TO THE CALLED THE	hot and world the forest							
	0.0				515.00	612.0			06.00		1000.00 MHz
Report			321.00	410.00	313.00	012.0	100	.00 0	00.00		1000.00 MH2
		C Part 15B_C	lass B_3M				Test D	istance:	3m		
est ite	m: Radiatior	n Emission					Ant. P	olarizatior	n: Ho	rizont	al
Applica	nt: Togran						Temp.	()/Hum.	(%):	22(C)	/ 54 %
roduc	t: Wireless Mo	ouse					Power	Rating:	DC 3V		
/lodel N	No.: TM181G						Test E	ngineer:	Chile	am	
Test M	ode: TX										
Remar	k:										
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F	Remark
1	105.6598	-11.97	28.77	16.80	43.50	-26.70	QP			Р	
2	261 9200	11 20	27.50	16.20	46.00	20.00	OB			В	

No.	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	Detector	Height (cm)	Azimuth ()	P/F	Remark
1	105.6598	-11.97	28.77	16.80	43.50	-26.70	QP			П	
2	261.8299	-11.38	27.58	16.20	46.00	-29.80	QP			J	
3	452.9200	-7.88	27.48	19.60	46.00	-26.40	QP			П	
4	580.9600	-5.55	27.05	21.50	46.00	-24.50	QP			J	
5	605.2100	-5.01	27.71	22.70	46.00	-23.30	QP			Р	
6	750.7100	-2.58	26.98	24.40	46.00	-21.60	QP			Р	

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

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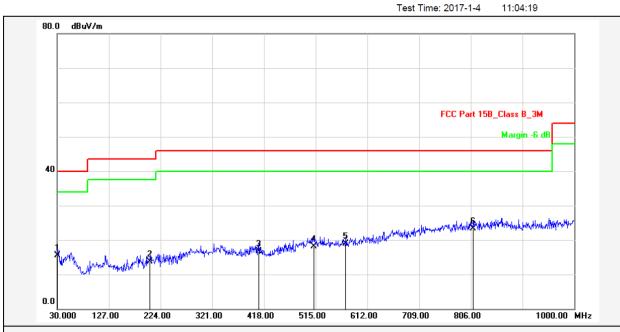




Dongguan NTC Co., Ltd. Tel: +86-769-22022444 Fax: +86-769-22022799

Note Testing Center Web: Http://www.ntc-c.com

Site: Conduction



Report No.: TM181G

Test Standard: FCC Part 15B_Class B_3M

Test item: **Radiation Emission** Ant. Polarization: Vertical

Applicant: Togran Temp.()/Hum.(%): 22(C) / 54 %

Product: Wireless Mouse Power Rating: DC 3V Model No.: TM181G Test Engineer: Chilam

Test Mode: ΤX

Remark:

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F	Remark
1	30.0000	-15.90	31.40	15.50	40.00	-24.50	QP			Р	
2	204.5997	-16.34	30.04	13.70	43.50	-29.80	QP			Р	
3	408.3000	-11.33	28.13	16.80	46.00	-29.20	QP			Р	
4	511.1200	-8.74	26.94	18.20	46.00	-27.80	QP			Р	
5	571.2599	-7.85	26.75	18.90	46.00	-27.10	QP		·	Р	
6	810.8500	-1.75	25.15	23.40	46.00	-22.60	QP			Р	

Test Distance:

3m

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

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Frequency Range: 1-25GHz Test Date: January 04, 2017

Test Result: PASS Temperature : 21 $^{\circ}$ C Measured Distance: 3m Humidity : 55 $^{\circ}$

Test By: Sance

Freq.	Ant.Pol.	Rea Level(•	Factor	Emissio (dBı		Limit (dBu\		Ma (d	rgin B)
(MHz) (H	(H/V)	PK	AV	(dB/m)	PK	AV	PK	AV	PK	AV
	<u>I</u>		Ope	ration M	ode: TX N	/lode (Lo	ow)		<u> </u>	
2408	V	85.41	74.52	0.15	85.56	74.67	114.00	94.00	-28.44	-19.33
4816	V	47.88	35.92	6.36	54.24	42.28	74.00	54.00	-19.76	-11.72
7224	V	46.48	33.66	10.46	56.94	44.12	74.00	54.00	-17.06	-9.88
2408	Н	84.44	71.94	0.15	84.59	72.09	114.00	94.00	-29.41	-21.91
4816	Н	47.71	37.17	6.36	54.07	43.53	74.00	54.00	-19.93	-10.47
7224	Н	49.50	37.57	10.46	59.96	48.03	74.00	54.00	-14.04	-5.97
			Ope	ration M	ode: TX I	Mode (M	id)			
2440	V	84.5	72.42	0.23	84.73	72.65	114.00	94.00	-29.27	-21.35
4880	V	47.82	37.77	6.60	54.42	44.37	74.00	54.00	-19.58	-9.63
7320	V	50.05	37.58	10.55	60.60	48.13	74.00	54.00	-13.40	-5.87
2440	Н	85.09	73.05	0.23	85.32	73.28	114.00	94.00	-28.68	-20.72
4880	Н	47.63	35.55	6.60	54.23	42.15	74.00	54.00	-19.77	-11.85
7320	Н	45.90	36.19	10.55	56.45	46.74	74.00	54.00	-17.55	-7.26
	1				ode: TX N				1	
2474	V	89.38	76.82	0.33	89.71	77.15	114.00	94.00	-24.29	-16.85
4948	V	53.46	41.80	6.85	60.31	48.65	74.00	54.00	-13.69	-5.35
7422	V	47.80	35.59	10.59	58.39	46.18	74.00	54.00	-15.61	-7.82
2474	Н	89.14	77.01	0.33	89.47	77.34	114.00	94.00	-24.53	-16.66
4948	Н	52.76	41.85	6.85	59.61	48.70	74.00	54.00	-14.39	-5.30
7422	Н	46.04	33.83	10.59	56.63	44.42	74.00	54.00	-17.37	-9.58

Note: (1

- (1) All Readings are Peak Value and AV.
- (2) Emission Level= Reading Level + Factor
- (3) Factor= Antenna Gain + Cable Loss Amplifier Gain
- (4) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 10dB below the permissible limits.
 - (5) Measurement uncertainty: ±3.7dB.
 - (6) Horn antenna used for the emission over 1000MHz.

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5. 20dB Bandwidth

5.1 Measurement Procedure

The 20dB bandwidth of the emission was contained within the frequency band designated which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered, FCC Rule 15.215(c):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was chosen so that the display was a result of the hopping channel modulation. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. Use the spectrum 20dB down delta function to measure the bandwidth.

5.2 Test SET-UP (Block Diagram of Configuration)

FUT	Spectrum Analyzer
	opectium Analyzer

5.3 Measurement Results

Refer to attached data chart.

RBW: 100KHz VBW: 300KHz Spectrum Detector: PK Temperature : 22 $^{\circ}$ C Test By: Sance Humidity : 54 $^{\circ}$

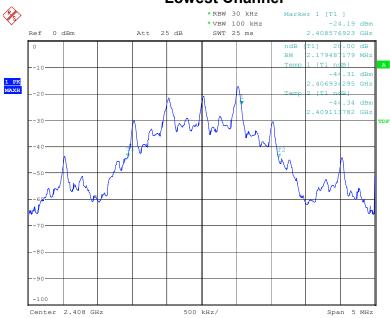
Test Result: PASS Test Date: January 04, 2017

Channel frequency (MHz)	20dB Down BW(kHz)
2408	2179
2440	2204
2474	2179

Report No.: NTC1612213F FCC ID: 2AGLG-TM181G

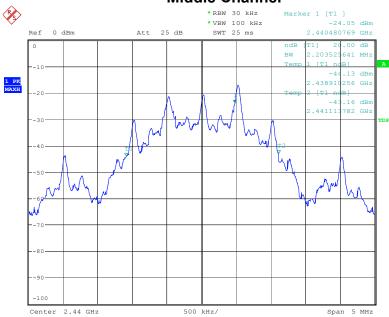


Lowest Channel



Date: 4.JAN.2017 11:21:58

Middle Channel



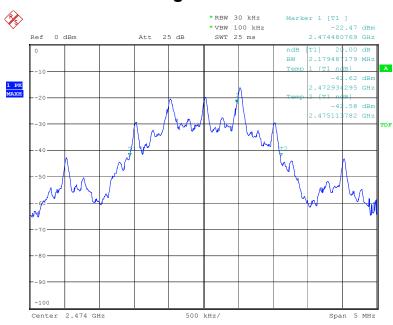
Date: 4.JAN.2017 11:23:37

Dongguan Nore Testing Center Co., Ltd. Report No.: NTC1612213F

Report No.: NTC1612213I FCC ID: 2AGLG-TM181G



Highest Channel



Date: 4.JAN.2017 11:24:51

Report No.: NTC1612213F FCC ID: 2AGLG-TM181G



6. Band Edge

6.1 Measurement Procedure

Same as Radiated Emission Test.

6.2 Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

6.3 Measurement Results

Operation Mode: TX Mode Test Date: January 04, 2017

Temperature : 21 $^{\circ}$ Humidity : 55 $^{\circ}$ Test Result: PASS Test By: Sance

Measured Distance: 3m

Freq. (MHz)	Ant.Pol. (H/V)	Reading Level(dBuV)		Factor	Emission Level (dBuV)		Limit 3m (dBuV/m)		Margin (dB)	
		PK	AV	(dB/m)	PK	AV	PK	AV	PK	AV
2390.000	Н	47.39	36.72	0.09	47.48	36.81	74.00	54.00	-26.52	-17.19
2390.000	V	45.83	36.03	0.09	45.92	36.12	74.00	54.00	-28.08	-17.88
2400.000	Н	47.67	35.27	0.11	47.78	35.38	74.00	54.00	-26.22	-18.62
2400.000	V	46.82	36.25	0.11	46.93	36.36	74.00	54.00	-27.07	-17.64
2483.500	Н	50.96	39.19	0.34	51.30	39.53	74.00	54.00	-22.70	-14.47
2483.500	V	50.79	39.18	0.34	51.13	39.52	74.00	54.00	-22.87	-14.48

Note: (1) Emission Level= Reading Level + Factor

(2) Factor= Antenna Gain + Cable Loss – Amplifier Gain

(3) Horn antenna used for the emission over 1000MHz.

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7. Antenna requirement

7.1 Measurement Procedure

According to of FCC part 15C section 15.203:

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.

7.2 Measurement Results

The antenna is PCB antenna and no consideration of replacement, and the best case gain of the antenna is -5.35dBi. So, the antenna is consider meet the requirement.

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8. Test Equipment List

Description	Manufacturer	Model Number	Serial Number	Characteristics	Calibration Date	Calibration Due Date
Test Receiver	Rohde & Schwarz	ESCI7	100837	9KHz~7GHz	Nov. 23, 2016	Nov. 22, 2017
Antenna	Schwarzbeck	VULB9162	9162-010	30MHz~7GHz	Nov. 26, 2016	Nov. 25, 2017
Positioning Controller	UC	UC 3000	N/A	0~360°, 1-4m	N/A	N/A
Color Monitor	SUNSPO	SP-140A	N/A	N/A	N/A	N/A
Single Phase Power Line Filter	SAEMC	PF201A-32	110210	32A	N/A	N/A
3 Phase Power Line Filter	SAEMC	PF401A-200	110318	200A	N/A	N/A
DC Power Filter	SAEMC	PF301A-200	110245	200A	N/A	N/A
Cable	Huber+Suhner	CBL2-NN-1M	22390001	9KHz~7GHz	Nov. 06, 2016	Nov. 05, 2017
Cable	Huber+Suhner	CIL02	N/A	9KHz~7GHz	Nov. 06, 2016	Nov. 05, 2017
RF Cable	Huber+Suhner	SF-104	MY16559/4	9KHz~25GHz	Mar. 06, 2016	Mar. 05, 2017
Power Amplifier	HP	HP 8447D	1145A00203	100KHz~1.3GHz	Nov. 06, 2016	Nov. 05, 2017
Horn Antenna	Schwarzbeck	BBHA9170	9170-372	15GHz~26.5GHz	Oct.22, 2016	Oct.21, 2017
Horn Antenna	Com-Power	AH-118	071078	1GHz~18GHz	Nov. 04, 2016	Nov. 03, 2017
Loop antenna	Daze	ZA30900A	0708	9KHz~30MHz	Oct.09, 2016	Oct.08, 2017
Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	20Hz~26.5GHz	Aug. 31, 2016	Aug. 30, 2017
Pre-Amplifier	Agilent	8449B	3008A02964	1GHz~26.5GHz	Nov. 02, 2016	Nov. 01, 2017
L.I.S.N.	Rohde & Schwarz	ENV 216	101317	9KHz~30MHz	Nov. 06, 2016	Nov. 07, 2017
Temporary antenna connector	TESCOM	SS402	N/A	9KHz-25GHz	N/A	N/A

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.