Report No.: NTC1804064FV00 FCC ID: 2APLB-RC212



FCC PART 15 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 : Shenzhen Taikeyi Technology Co., Ltd.

Address : Yuan Zheng science and Technology Park, No. 2 building, Longgang

District Bantian Street five and Avenue North Shenzhen City, China

Manufacturer & Factory : Shenyang Taikeyi Technology Co., Ltd

Address No.1-1, Caixia Street, Hunnan new District, Shenyang, China

E.U.T. : TE720 Pro REMOTE CONTROL

Model No. : RC212

Brand Name

FCC ID : 2APLB-RC212

Measurement Standard : FCC PART 15.231

Date of Receiver : April 10, 2018

Date of Test : April 10, 2018 to May 25, 2018

Date of Report : May 25, 2018

This Test Report is Issued Under the Authority of:

Prepared by

Approved & Authorized Signer

Rose Hu / Engineer

Iori Fan 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.: NTC1804064FV00 FCC ID: 2APLB-RC212



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Revision History of This Test Report

Report Number	Description	Issued Date
NTC1804064FV00	Initial Issue	2018-05-25

Report No.: NTC1804064FV00

FCC ID: 2APLB-RC212



1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test

E.U.T. : TE720 Pro REMOTE CONTROL

Main Model Name : RC212

Additional Model

name

: N/A

Rating : 2* DC 3.7V li-ion Battery, DC 5V come from USB port

Adapter : N/A

Test Voltage : 2* DC 3.7V li-ion Battery,

AC 120V 60Hz come from Adapter

(Only the worst case was recorded in the test report.)

Cable : USB Line: 1.53m shielded

I/O Port : Signal port, USB port

Hardware version : V1.0

Software version : V1.0

Description of model: N/A

difference

Note : N/A

Remark : N/A

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Technical parameters

Frequency: : 433.4MHz

Modulation : FSK

Antenna Type : Integral

Antenna Gain : 0dBi

Number of Channels : 1

Report No.: NTC1804064FV00

FCC ID: 2APLB-RC212



1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **2APLB-RC212** filing to comply with Section 15.231 of the FCC Part 15 (2016), Subpart C Rule.

1.3 Test Methodology

The radiated emission measurement was performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in semi-anechoic chamber. 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

Adapter : Model: ST220

Input: AC 110-240V 50/60Hz 0.5A

Output: DC 5.0V 1A

Report No.: NTC1804064FV00

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1.6 Test Facility and Location

Site Description

EMC Lab: 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 A2LA, November 01, 2017

The certificate is valid until December 31, 2019 The Laboratory has been assessed and proved to

be in compliance with ISO17025

The Certificate Registration Number is 4429.01

Listed by FCC, November 06, 2017 The Designation Number is CN1214 Test Firm Registration Number: 907417

Listed by Industry Canada, June 08, 2017

The Certificate Registration Number. Is 46405-9743

Name of Firm : Dongguan Nore Testing Center Co., Ltd.

(Dongguan NTC Co., Ltd.)

Site Location : Building D, Gaosheng Science & Technology Park,

Zhouxi Longxi Road, Nancheng District, Dongguan

City, Guangdong Province, China

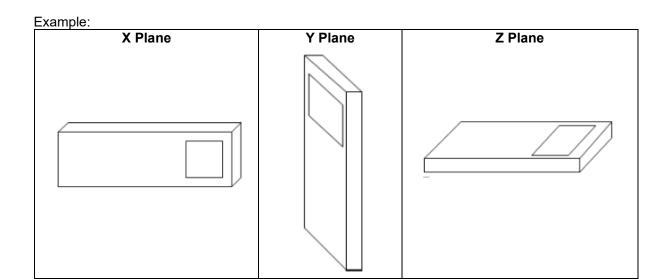


1.7 Summary of Test Results

FCC Rules	Description Of Test	Result		
§15.207	AC Power Conducted Emission	Compliant		
§15.231&15.209	Radiated Emission	Compliant		
§15.231(c)	Occupied bandwidth	Compliant		
§15.231(a)	Transmission time	Compliant		
§15.203	Antenna Requirement	Compliant		

Note: 1. The EUT has been tested as an independent unit. And Continual transmitting in maximum power (The new battery be used during test)

2. The EUT powered by battery and operating multiple positions, so the EUT shall be performed three orthogonal planes. The worst plane is X.

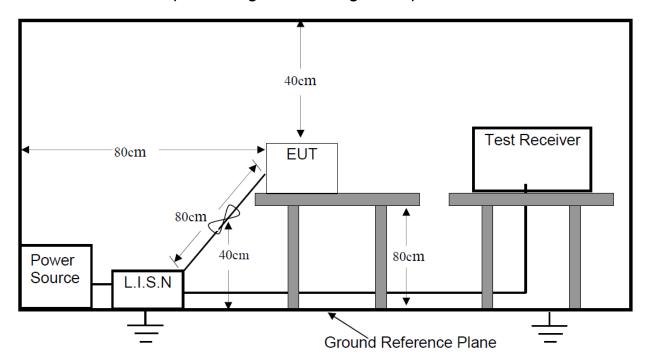


FCC ID: 2APLB-RC212



2. Conducted Emissions Test

2.1 Test SET-UP (Block Diagram of Configuration)



2.2 Test Condition

Test Requirement: FCC Part 15.207

Frequency Range: 150KHz ~ 30MHz

Detector: RBW 9KHz, VBW 30KHz

Operation Mode: TX

2.3 Measurement Results

Please refer to following plots.

Dongguan Nore Testing Center Co., Ltd. Report No.: NTC1804064FV00

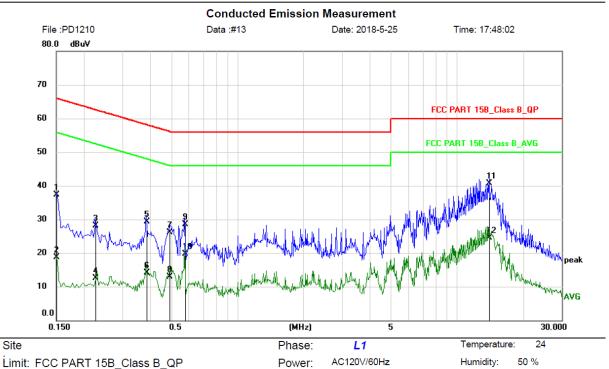
FCC ID: 2APLB-RC212





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

Web: Http://www.ntc-c.com



EUT: TE720 Pro REMOTE CONTROL

M/N: RC212 Mode: TX Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1	0.1500	26.50	10.80	37.30	66.00	-28.70	QP	
2	0.1500	7.90	10.80	18.70	56.00	-37.30	AVG	
3	0.2260	17.40	10.80	28.20	62.60	-34.40	QP	
4	0.2260	1.80	10.80	12.60	52.60	-40.00	AVG	
5	0.3860	18.60	10.80	29.40	58.15	-28.75	QP	
6	0.3860	3.40	10.80	14.20	48.15	-33.95	AVG	
7	0.4940	15.40	10.80	26.20	56.10	-29.90	QP	
8	0.4940	2.20	10.80	13.00	46.10	-33.10	AVG	
9	0.5780	17.70	10.80	28.50	56.00	-27.50	QP	
10	0.5780	8.90	10.80	19.70	46.00	-26.30	AVG	
11 *	14.0380	30.00	10.80	40.80	60.00	-19.20	QP	
12	14.0380	13.80	10.80	24.60	50.00	-25.40	AVG	

Dongguan Nore Testing Center Co., Ltd. Report No.: NTC1804064FV00

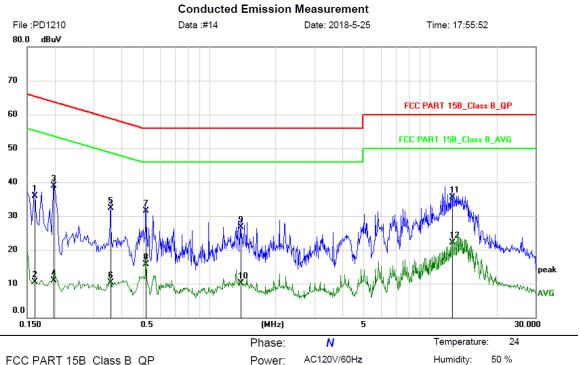
FCC ID: 2APLB-RC212





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Web: Http://www.ntc-c.com



Limit: FCC PART 15B_Class B_QP

EUT: TE720 Pro REMOTE CONTROL

M/N: RC212 Mode: TX Note:

Site

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∀	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1620	25.20	10.80	36.00	65.36	-29.36	QP	
2	0.1620	-0.30	10.80	10.50	55.36	-44.86	AVG	
3	0.1980	28.20	10.80	39.00	63.69	-24.69	QP	
4	0.1980	0.20	10.80	11.00	53.69	-42.69	AVG	
5	0.3580	21.60	10.80	32.40	58.77	-26.37	QP	
6	0.3580	-0.50	10.80	10.30	48.77	-38.47	AVG	
7 *	0.5180	20.70	10.80	31.50	56.00	-24.50	QP	
8	0.5180	4.90	10.80	15.70	46.00	-30.30	AVG	
9	1.3900	16.00	10.80	26.80	56.00	-29.20	QP	
10	1.3900	-0.60	10.80	10.20	46.00	-35.80	AVG	
11	12.5260	24.70	10.80	35.50	60.00	-24.50	QP	
12	12.5260	11.40	10.80	22.20	50.00	-27.80	AVG	

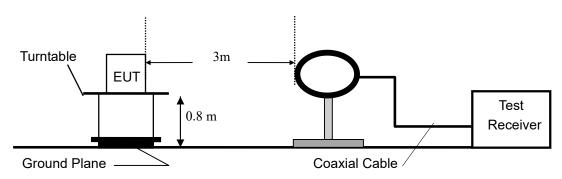
FCC ID: 2APLB-RC212

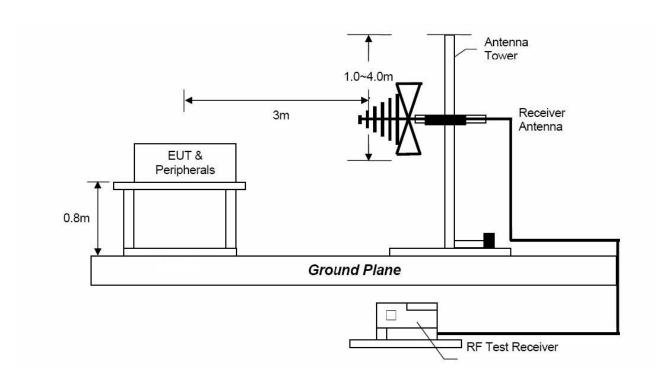


3. Radiated Emission Test

3.1 Test SET-UP (Block Diagram of Configuration)

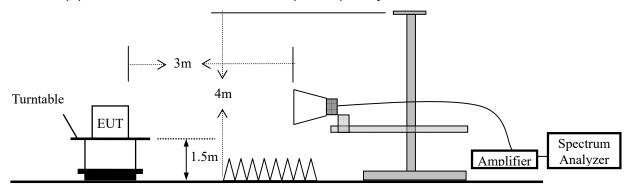
(1)Radiated Emission Test Set-Up, Frequency Below 30MHz







(2) Radiated Emission Test Set-Up, Frequency above 1GHz



3.2 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	Peak+ AV Fa	actor

3.3 Limit

Table A [0.009MHz~1GHz]

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	100
88 ~ 216	3	150
216 ~ 960	3	200
Above 960	3	500

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.

Report No.: NTC1804064FV00

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Table B

Fundamental Frequency	Field Str Funda	ength of mental		h of Spurious sions
(MHz)	μ V /m	dBμV/m	μ V/m	dBμV/m
40.66-40.70	2250	67.04	225	47.04
70-130	1250	61.94	125	41.94
130-174	1250-3370**	61.9-70.55	125-375**	41.94-51.48
174-260	3750	71.48	375	51.48
260-470	3750-12500**	71.48-81.94	375-1250**	51.48-61.94
Above 470	12500	81.94	1250	61.94

^{**)} Linear interpolations

3.4 Measurement Results

Note: (1) Emission Level= Reading Level+Probe Factor +Cable Loss

- (2) Factor= Antenna Gain + Cable Loss Amplifier Gain
- (3) Measurement uncertainty: ±3.7dB
- (4) Emission (the row indicated by bold) within the restricted band meets the requirement of FCC part 15 Section 15.205.
- (5) Horn antenna used for the emission over 1000MHz.

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Web: Http://www.ntc-c.com

Radiated Emission Measurement File:RC212 Data:#13 Date: 2018-5-16 Time: 9:32:29 100.0 dBuV/m 90 FCC_part 15C_433M_3M 80 70 FCC_part 15C_433M_AVG_3M 60 50 40 30 20 10 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz

Site Limit: FCC_part 15C_433M_3M

EUT: TE720 Pro REMOTE CONTROL

Reading

Level

dBuV

25.86

27.33

44.21

33.49

28.73

28.09

103.45

86.85

54.32

41.32

Correct

Factor

dB

-12.26

-13.83

-12.91

-10.79

-9.13

-9.19

-8.35

-8.35

-1.12

-1.12

Measure-

ment

dBuV/m

13.60

13.50

31.30

22.70

19.60

18.90

95.10

78.50

53.20

40.20

100.80

80.80

80.80

60.80

-5.70

-2.30

-27.60

-20.60

peak

AVG

peak AVG

M/N: RC212

Freq.

MHz

110.5100

185.2000

221.0900

288.0200

359.8000

383.0799

433.4000

433.4000

866.8000

866.8000

Mode: TX Note:

No. Mk.

1

2

3

4 5

6

7

8

9

10

Polarization: Horizontal DC7.4V Power:

Distance: 3m

26 Temperature: Humidity: 47 %

Limit	Over		Antenna Height	Table Degree	
dBuV/m	dB	Detector	cm	degree	Comment
80.80	-67.20	QP			
80.80	-67.30	QP			
80.80	-49.50	QP			
80.80	-58.10	QP			
80.80	-61.20	QP			
80.80	-61.90	QP			

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit. Other emissions are lower than 20dB below the allowable limit. And according to FCC rule, they had not recorded in the report.

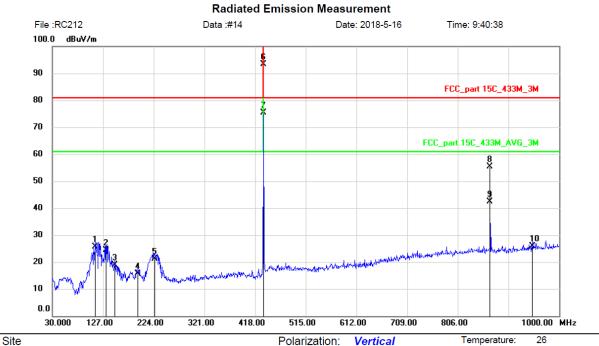
Report No.: NTC1804064FV00 FCC ID: 2APLB-RC212





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Web: Http://www.ntc-c.com



Limit: FCC_part 15C_433M_3M

EUT: TE720 Pro REMOTE CONTROL

M/N: RC212 Mode: TX Note:

Polarizati	on:	Vertical	l'emperature:	26
Power:	DC7.4	! V	Humidity:	47 %

Distance: 3m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		112.4500	41.78	-16.08	25.70	80.80	-55.10	QP			
2		132.8200	42.58	-18.28	24.30	80.80	-56.50	QP			
3		149.3100	37.32	-18.52	18.80	80.80	-62.00	QP			
4		193.9299	32.05	-16.45	15.60	80.80	-65.20	QP			
5		225.9400	36.77	-15.67	21.10	80.80	-59.70	QP			
6		433.4000	104.65	-11.35	93.30	100.80	-7.50	peak			
7	*	433.4000	86.65	-11.35	75.30	80.80	-5.50	AVG			
8		866.8000	56.52	-1.12	55.40	80.80	-25.40	peak			
9		866.8000	43.52	-1.12	42.40	60.80	-18.40	AVG			
10		948.5900	26.02	-0.22	25.80	80.80	-55.00	QP			

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit. Other emissions are lower than 20dB below the allowable limit. And according to FCC rule, they had not recorded in the report.

Report No.: NTC1804064FV00 FCC ID: 2APLB-RC212



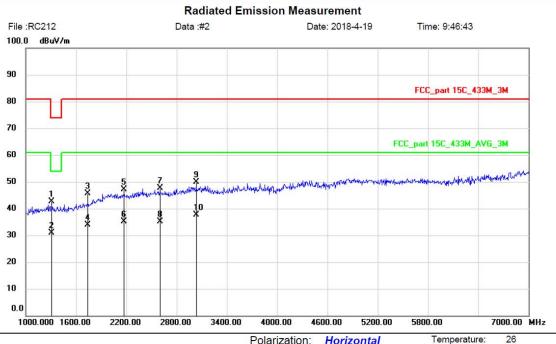
47 %



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Web: Http://www.ntc-c.com



Site

Limit: FCC_part 15C_433M_3M

EUT: TE720 Pro REMOTE CONTROL

M/N: RC212 Mode: TX Note: Polarization: *Horizontal* Temperature: Power: DC7.4V Humidity:

Distance: 3m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1300.200	49.70	-7.09	42.61	74.00	-31.39	peak			
2		1300.200	37.89	-7.09	30.80	54.00	-23.20	AVG			
3		1733.600	49.89	-4.35	45.54	80.80	-35.26	peak			
4		1733.600	38.25	-4.35	33.90	60.80	-26.90	AVG			
5		2167.000	47.52	-0.48	47.04	80.80	-33.76	peak			
6		2167.000	35.58	-0.48	35.10	60.80	-25.70	AVG			
7		2600.400	46.95	0.74	47.69	80.80	-33.11	peak			
8		2600.400	34.36	0.74	35.10	60.80	-25.70	AVG			
9		3033.800	48.07	1.84	49.91	80.80	-30.89	peak			
10	*	3033.800	35.76	1.84	37.60	60.80	-23.20	AVG			

Other emissions are lower than 20dB below the allowable limit. And according to FCC rule, they had not recorded in the report.

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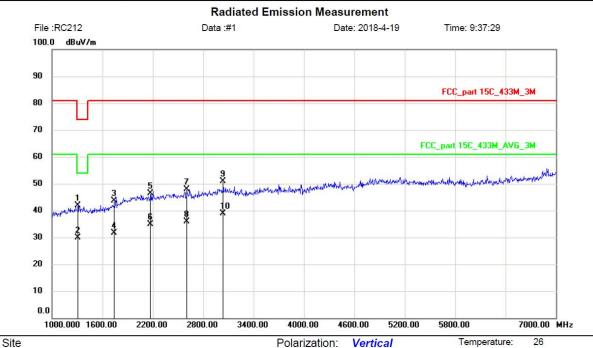




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Web: Http://www.ntc-c.com



Limit: FCC_part 15C_433M_3M

EUT: TE720 Pro REMOTE CONTROL

M/N: RC212 Mode: TX Note: Polarization: Vertical Temperature: 26
Power: DC7.4V Humidity: 47 %

Distance: 3m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1300.200	48.93	-7.09	41.84	74.00	-32.16	peak			
2		1300.200	36.89	-7.09	29.80	54.00	-24.20	AVG			
3		1733.600	47.92	-4.35	43.57	80.80	-37.23	peak			
4		1733.600	36.04	-4.35	31.69	60.80	-29.11	AVG			
5		2167.000	46.81	-0.48	46.33	80.80	-34.47	peak			
6		2167.000	35.38	-0.48	34.90	60.80	-25.90	AVG			
7		2600.400	47.08	0.74	47.82	80.80	-32.98	peak			
8		2600.400	35.06	0.74	35.80	60.80	-25.00	AVG			
9		3033.800	49.00	1.84	50.84	80.80	-29.96	peak			
10	*	3033.800	36.96	1.84	38.80	60.80	-22.00	AVG			

Other emissions are lower than 20dB below the allowable limit. And according to FCC rule, they had not recorded in the report.

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4. Occupied Bandwidth

4.1 Measurement Procedure

Same as section 2.2.

4.2 Test SET-UP (Block Diagram of Configuration)

Same as section 2.1.

4.3 Limit

Please refer section 15.231

According to 15.231(C), the bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz.

Limit = 433.92*0.25% = 1.08 MHz

4.4 Measurement Results

20dB Bandwidth	Limit		
73.7KHz	1.08MHz		

Please refer to the following plot.

Dongguan Nore Testing Center Co., Ltd. Report No.: NTC1804064FV00

FCC ID: 2APLB-RC212



20dB Bandwidth



Date: 14.MAY.2018 18:33:40

Report No.: NTC1804064FV00

FCC ID: 2APLB-RC212



5. Transmission Time

5.1 Measurement Procedure

Same as section 2.2.

5.2 Test SET-UP (Block Diagram of Configuration)

Same as section 2.1.

5.3 Limit

According to 15.231(a)(2), A transmitter activated automatically shall cease transmission within 5 seconds after activation.

5.4 Measurement Results

Transmission Time	Limit		
0.032s	5s		

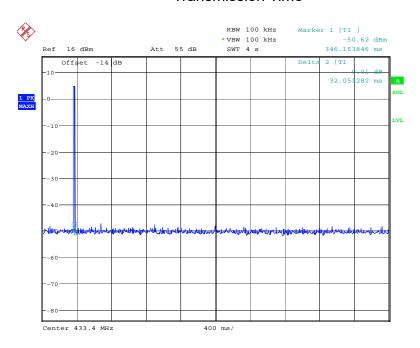
Please refer to the following plot.

Dongguan Nore Testing Center Co., Ltd. Report No.: NTC1804064FV00

FCC ID: 2APLB-RC212



Transmission Time



Date: 14.MAY.2018 18:42:31

Report No.: NTC1804064FV00

FCC ID: 2APLB-RC212



6. Antenna Application

6.1 Antenna requirement

According to of FCC part 15C section 15.203 and 15.240:

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.

6.2 Measurement Results

The antenna is integrated on the main Integral and no consideration of replacement, and the best case gain of the antenna is 0dBi. So, the antenna is consider meet the requirement.





7. Test Equipment List

Description	Manufacturer	Model Number	Serial Number	Characteristics	Calibration Date	Calibration Due Date
Test Receiver	Rohde & Schwarz	ESCI7	100837	9KHz~7GHz	Mar. 13, 2018	Mar. 12, 2019
Antenna	Schwarzbeck	VULB9162	9162-010	30MHz~7GHz	Mar. 14, 2018	Mar. 13, 2019
Cable	Huber+Suhner	CBL2-NN-1M	22390001	9KHz~7GHz	Mar. 13, 2018	Mar. 12, 2019
Cable	Huber+Suhner	CIL02	N/A	9KHz~7GHz	Mar. 13, 2018	Mar. 12, 2019
RF Cable	Huber+Suhner	SF-104	MY16559/4	9KHz~25GHz	Apr. 25, 2018	Apr. 25, 2019
Power Amplifier	HP	HP 8447D	1145A00203	100KHz~1.3GHz	Mar. 13, 2018	Mar. 12, 2019
Horn Antenna	Schwarzbeck	BBHA9170	9170-242	15GHz~40GHz Mar. 13, 2		Mar. 12, 2019
Horn Antenna	Com-Power	AH-118	071078	1GHz~18GHz	Mar. 14, 2018	Mar. 13, 2019
RF Cable	Huber+Suhner	SF-104	N/A	9KHz~40GHz	Apr. 25, 2018	Apr. 25, 2019
Loop antenna	Daze	ZA30900A	0708	9KHz~30MHz	Apr. 25, 2018	Apr. 25, 2019
Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	20Hz~26.5GHz	Apr. 25, 2018	Apr. 25, 2019
Spectrum Analyzer	Rohde & Schwarz	FSV40	101003	10Hz~40GHz	Apr. 06, 2018	Apr. 05, 2019
Pre-Amplifier	EMCI	EMC 184045	980102	18GHz~40GHz	Nov. 03, 2017	Nov. 02, 2018
Pre-Amplifier	Agilent	8449B	3008A02964	1GHz~26.5GHz	Apr. 25, 2018	Apr. 25, 2019
L.I.S.N.	Rohde & Schwarz	ENV 216	101317	9KHz~30MHz	Mar. 13, 2018	Mar. 12, 2019
Temporary antenna connector	TESCOM SS402		N/A 9KHz-25GHz		N/A	N/A
Power Meter	Anritsu	ML2495A	1139001	100k-65GHz	Nov. 03, 2017	Nov. 02, 2018
Power Sensor	Anritsu	MA2411B	100345	300M-40GHz	Nov. 03, 2017	Nov. 02, 2018

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.