

FCC ID:XHT-100851610

TEST REPORT

TO:	GUANGDONG YINRUN INDUSTRY CO.,LTD.	Fax:	/	
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ADDRESS	Yinrun Garden, Laimei Ind. Zone, Chenghai Shantou City, Guangdong China			
TEST DATE	03 NOVEMBER 2016			

MANUFACTURER OR SUPPLIER NAME	GUANGDONG YINRUN INDUSTRY CO.,LTD.
MANUFACTURER OR SUPPLIER ADDRESS:	Yinrun Garden, Laimei Ind. Zone, Chenghai Shantou City, Guangdong China
SAMPLE DESCRIPTION:	RUNNER TUMBLING CAR
MODEL OR STYLE NUMBER:	10085/10086
RATED VOLTAGE:	Remote:9V d.c.("6F22" Size *1)
REMARKS:	



The submitted sample of the above equipment has been tested according to the requirements of follow standards

47 CFR PART 15 OCT, 2016 ANSI C63.10:2013

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Assistant Manager

Name: Nick Lung

Date:



FCC ID:XHT-100851610

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1.TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2016
- ANSI C63.10:2013

2.SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	29 October 2016		
Testing commenced on	29 October~03 October 2016		
-			
Testing concluded on	03 October 2016		

2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

■ - fulfilled.□ - not fulfilled.

The equipment under test

- - fulfils the FCC requirements cited on page 1.
- does not fulfil the FCC requirements cited on page 1.

3.EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage : ■ Battery 9V,

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1

Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

- ☐ TX- Y position
- ☐ TX- Z position
- TX- X position

Operation mode 1:TX-X Position Low (2402MHz) , TX-X Position Middle (2440MHz), TX-X Position High (2480MHz)

Note:Operation mode 1 TX -X position of EUT is the radiated test worst case; so only these test results be recorded in the test report.



3.4 EUT configuration

3.4.1. Description of configuration (EUT)

Description :		RUNNER TUMBLING CAR
Model Number :		10085/10086
Operation frequency	:	2402~ 2480 MHz ISM Band
Modulation Technology	:	GFSK Modulation
Antenna	:	External antenna, met requirement of FCC 15.203

3.4.2. Tested Supporting System Details

N/A



4.TEST ENVIRONMENT

4.1 Address of the test laboratory

Centre of Testing Service Co, Ltd .- a Bureau Veritas Company

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406

4.2 Test facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD, 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 our files. Registration No.791995, May 22,2015.

4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

4.4 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report.
- □ The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.



4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
	30MHz~300MHz	±3.14dB	(1)
Radiation emission (3m)	300MHz~1000MHz	±3.18dB	(1)
	1GHz~26.5GHz	±3.54dB	(1)

^{(1).} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5. Summary of standards and results

5.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION				
Description of Test Item	Results			
Conducted Emission Test	FCC Part 15 § 15.207 ANSI C63.10:2013	N/A		
Radiated Emission Test	FCC Part 15 C § 15.249 FCC Part 15 § 209 ANSI C63.10:2013	PASSED		
Band Edge Compliance Test	FCC Part 15 C § 15.249 ANSI C63.10:2013	PASSED		
20 dB Bandwidth	FCC Part 15 C: 15.215 ANSI C63.10:2013	PASSED		
N/A is an abbreviation for Not Applicable.				



6. Power Line Conducted Emission Test

6.1.Test Equipment

Conducted Disturbance							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.		
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2016/10		
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2016/10		
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/026	2016/10		
4	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2016/10		
5	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2016/10		

6.2. Block Diagram of Test Setup

EUT

(EUT: 10085/10086)

6.3. Power Line Conducted Emission Test Limits

Standard: FCC Part 15: 15.207, ANSI C63.10:2013

_					
Ī			Maximum RF Line Voltage		
	Frequency		Quasi-Peak Level	Average Level	
			dB(μV)	dB(μV)	
Ī	150kHz	~ 500kHz	66 ~ 56*	56 ~ 46*	
Ī	500kHz	~ 5MHz	56	46	
	5MHz	~ 30MHz	60	50	

Notes: 1. * Decreasing linearly with logarithm of frequency.

6.4.Test Procedure

The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#1). Power on the PC and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC Part 15C on Conducted Emission Test.

6.5. Power Line Conducted Emission Test Results

N/A (Note:The EUT Power supply by Battery, Not applicable)

^{2.} The lower limit shall apply at the transition frequencies.



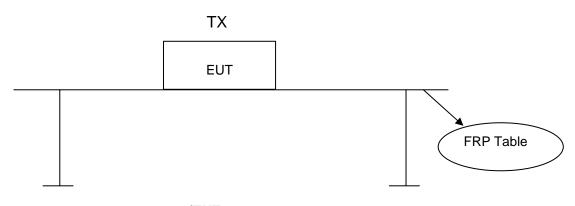
7. Radiated disturbance (electric field)

7.1.Test Equipment

Radia	Radiated disturbance (electric field)				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2016/10
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2016/03
3 Log per Antenna	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2016/03
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2016/03
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2016/03
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2016/10

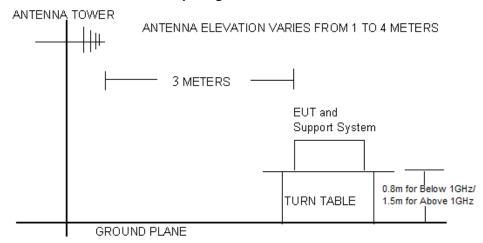
7.2.Block Diagram of Test Setup

7.2.1 Block Diagram of connection between EUT and simulators





7.2.2 Anechoic Chamber Setup Diagram



7.3. Radiated Emission Limit:

Standard: FCC 15.249, FCC 15.209

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (µV/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

FR	EQUEN	CY	DISTANCE	FIELD STREN	GTHS LIMIT
	MHz		Meters	μV/m	dB(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	40.0
88	~	216	3	150	43.5
216	~	960	3	200	46.0
960	~	1000	3	500	54.0
Above 1000		000	3	Other:74.0 dB(μV)/m (Peak)	
		000	3	54.0 dB(μV)/m (Average)	

Remark:

- (1) Emission level $dB\mu V = 20 log Emission level <math>\mu V/m$
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



7.4.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground (1.5m for above 1GHz). The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 2MHz RBW above 1GHz,

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with1MHz VBW above 1GHz, A average detector with 10Hz VBW above 1GHz

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

7.5. Radiated Emission Test Results

PASSED.

The frequency range from 9KHz~30MHz,30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.



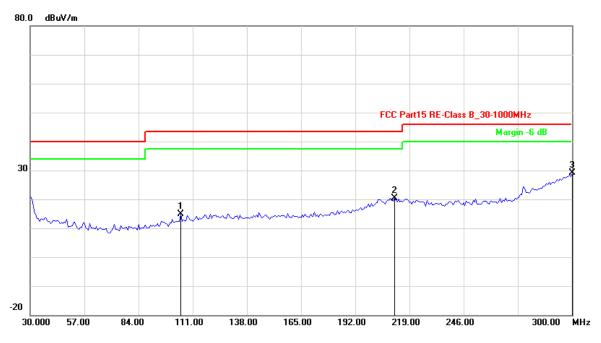
Test Mode:	TX –X Position Mode	Result:	■ - passed
Frequency range:	9KHz~30MHz		□ - not passed

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
Rem	Remark: The test result reading value is to low, margin all > 20dB of the limit.							



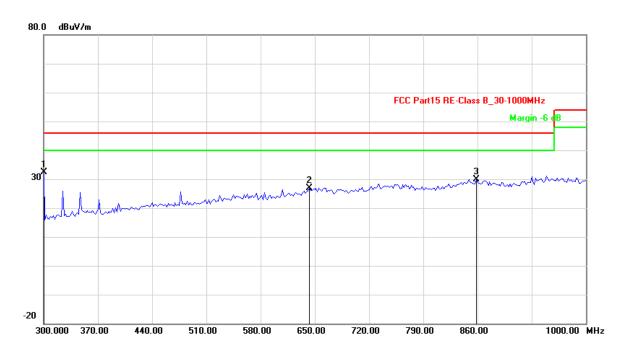
Channel:	TX –X Position	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	30MHz-1GHz		

EUT	RUNNER TUMBLING CAR
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	29 October~03 November 2016
Operator	Duke
MODEL NO	10085/10086



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	104.9250	-17.77	32.62	14.85	43.50	-28.65	QP		
2	211.5750	-10.30	30.72	20.42	43.50	-23.08	QP		
3	300.0000	-1.42	30.50	29.08	46.00	-16.92	QP		
Remark:	Remark: Other frequency mini margin all >20 dB of Limit								





No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	300.0000	-13.62	45.94	32.32	46.00	-13.68	QP
2	643.0000	-3.55	30.52	26.97	46.00	-19.03	QP
3	858.2500	-0.54	30.41	29.87	46.00	-16.13	QP
Remark: Other frequency mini margin all >20 dB of Limit							

Channel:	TX –X Position Low CH	Result:	■ - passed
Test point:	Horizontal		☐ - not passed
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2402.00	7.02	76.23	83.25	114.00	-30.75	Peak
2	2402.00	7.02	75.48	82.50	94.00	-11.5	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	1770.000	3.39	46.89	50.28	74.00	-23.72	peak	
2	1770.000	3.39	34.02	37.41	54.00	-16.59	AVG	
3	5977.500	8.81	42.30	51.11	74.00	-22.89	peak	
4	5977.500	8.81	29.55	38.36	54.00	-15.64	AVG	
Remark: Other frequency mini margin all >20 dB of Limit								



Channel:	TX –X Position Middle CH	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2440.00	7.24	76.80	84.04	114.00	-29.96	Peak
2	2440.00	7.24	76.38	83.62	94.00	-10.38	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	2017.500	4.82	48.24	53.06	74.00	-20.94	peak		
2	2017.500	4.82	35.43	40.25	54.00	-13.75	AVG		
3	6747.500	10.78	40.56	51.34	74.00	-22.66	peak		
4	6747.500	10.78	26.85	37.63	54.00	-16.37	AVG		
Remark:	Remark: Other frequency mini margin all >20 dB of Limit								

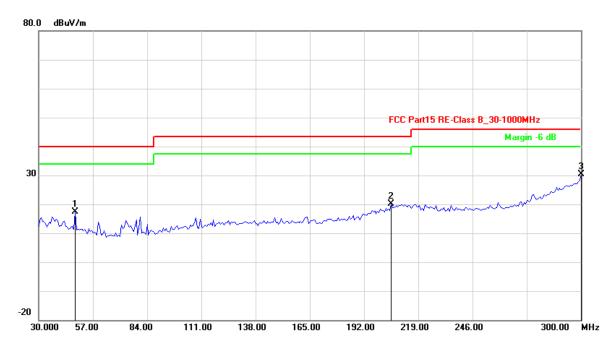
Channel:	TX –X Position High CH	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	1GHz-26.5GHz		,

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2480.00	7.47	76.47	83.94	114.00	-30.06	Peak
2	2480.00	7.47	75.52	82.99	94.00	-11.01	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	1770.000	3.39	48.20	51.59	74.00	-22.41	peak		
2	1770.000	3.39	35.03	38.42	54.00	-15.58	AVG		
3	5372.500	7.03	42.40	49.43	74.00	-24.57	peak		
4	5372.500	7.03	29.55	36.58	54.00	-17.42	AVG		
Remark	Remark: Other frequency mini margin all >20 dB of Limit								

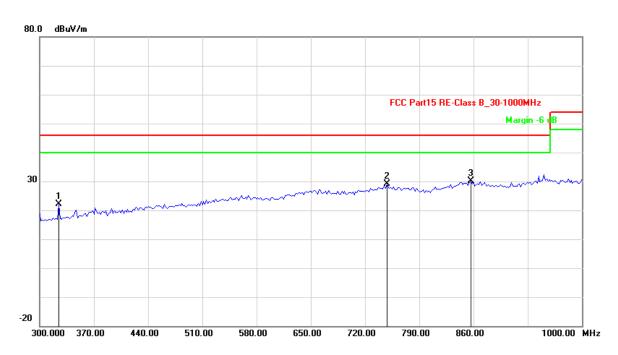


Channel:	TX –X Position	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	30MHz-1GHz		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	48.2250	-18.39	35.69	17.30	40.00	-22.70	QP		
2	205.5000	-11.13	31.20	20.07	43.50	-23.43	QP		
3	300.0000	-1.42	31.74	30.32	46.00	-15.68	QP		
Remark:	Remark: Other frequency mini margin all >20 dB of Limit								





No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	324.5000	-12.51	34.66	22.15	46.00	-23.85	QP		
2	748.0000	-1.68	30.80	29.12	46.00	-16.88	QP		
3	856.5000	-0.48	30.58	30.10	46.00	-15.90	QP		
Remark:	Remark: Other frequency mini margin all >20 dB of Limit								

Channel:	TX –X Position Low CH	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	1GHz-26.5GHz		

	No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
ſ	1	2402.00	7.02	79.03	86.05	114.00	-27.95	Peak
	2	2402.00	7.02	78.34	85.36	94.00	-8.64	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2017.500	4.82	50.61	55.43	74.00	-18.57	peak
2	2017.500	4.82	37.04	41.86	54.00	-12.14	AVG
3	6252.500	9.52	41.21	50.73	74.00	-23.27	peak
4	6252.500	9.52	27.53	37.05	54.00	-16.95	AVG
Remark	Other frequen	cv mini ma	rgin all >20 dB	of Limit			



Channel:	TX –X Position Middle CH	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2440.00	7.24	77.02	84.26	114.00	-29.74	Peak
2	2440.00	7.24	76.24	83.48	94.00	-10.52	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	1742.500	3.23	47.81	51.04	74.00	-22.96	peak	
2	1742.500	3.23	34.82	38.05	54.00	-15.95	AVG	
3	6582.500	10.36	41.28	51.64	74.00	-22.36	peak	
4	6582.500	10.36	28.06	38.42	54.00	-15.58	AVG	
Remark:	Remark: Other frequency mini margin all >20 dB of Limit							

Channel:	TX –X Position High CH	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	1GHz-26.5GHz		

	No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
Ī	1	2480.00	7.47	78.55	86.02	114.00	-27.98	Peak
Ī	2	2480.00	7.47	77.62	85.09	94.00	-8.91	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	2017.500	4.82	42.48	47.30	74.00	-26.70	peak	
2	2017.500	4.82	29.80	34.62	54.00	-19.38	AVG	
3	5840.000	8.41	43.18	51.59	74.00	-22.41	peak	
4	5840.000	8.41	30.11	38.52	54.00	-15.48	AVG	
Remark	Remark: Other frequency mini margin all >20 dB of Limit							



8. Band Edge Compliance test

8.1. Test Equipment

Band Edge Compliance test							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.		
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2016/10		
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2016/03		
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2016/03		

8.2. Test Information

EUT	RUNNER TUMBLING CAR		
Test Condition	Ambient Temperature: 25°C Humidity: 56%		
Test distance	3 Meter		
Test Date:	29 October~03 November 2016		
Operator	Duke		
MODEL NO	10085/10086		

8.3. Test procedure

- 1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setp 1,and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz; VBW=1KHz(On time/1)/ Sweep=AUTO

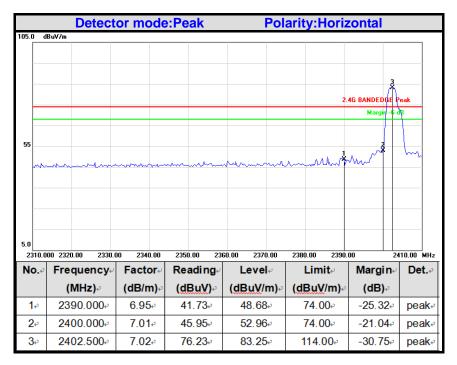
8.4. Test Results

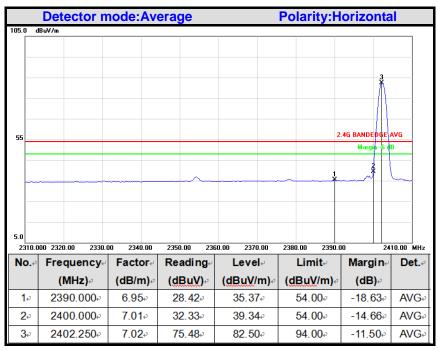
PASSED.

The EUT operates at hopping-off test mode. The lowest and highest channels are tested to verify the band edge emissions.

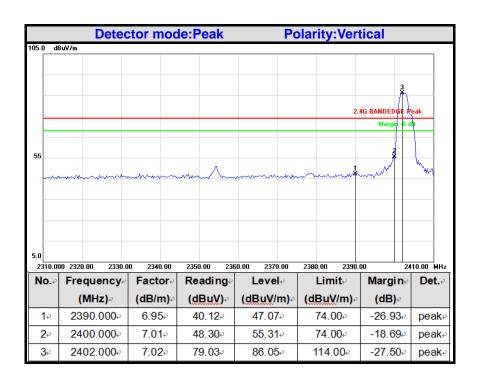


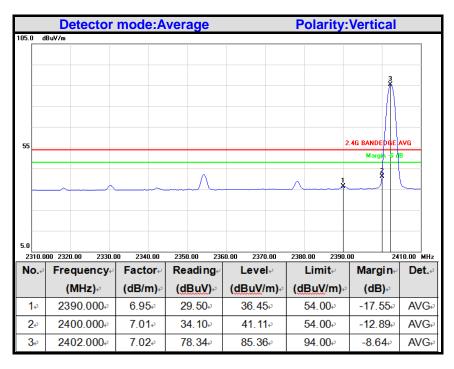
Band Edges (Low)







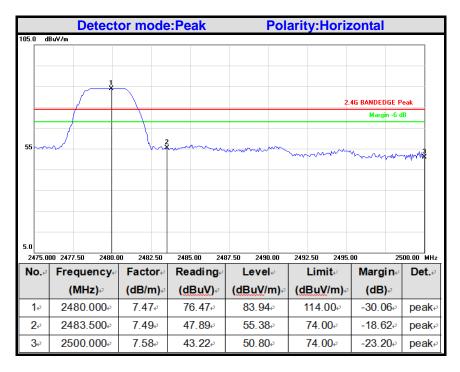


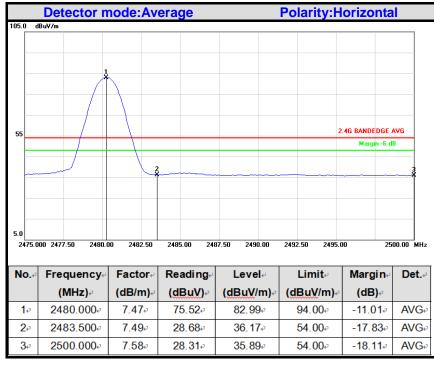




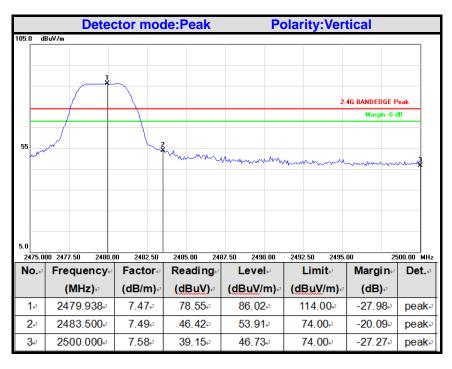
FCC ID:XHT-100851610

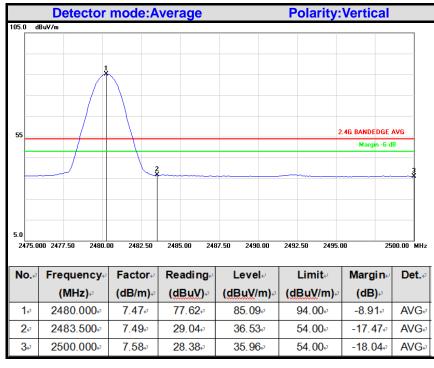
Band Edges (High)













9 20 dB Bandwidth test

9.1. Test Equipment

20 dB Bandwidth test							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.		
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2016/10		
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2016/03		
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2016/03		

9.2. Test Information

EUT	RUNNER TUMBLING CAR
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	01 November 2016
Operator	Duke
MODEL NO	10085/10086

8.3. Test Results

PASSED.

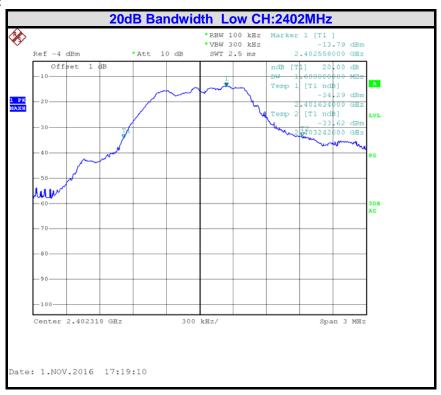
The testing data was attached in the next pages.

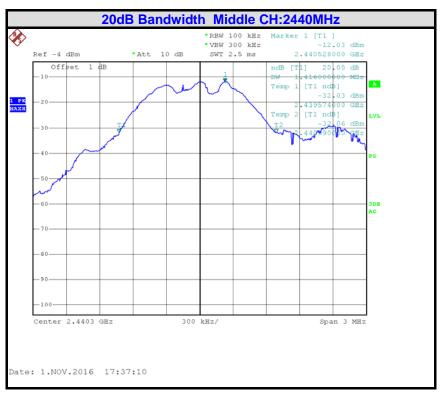
Channel (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Test Result
2402	1.600		PASSED
2440	1.146		PASSED
2480	2.274		PASSED



FCC ID:XHT-100851610

Test Plot:











10.0 Antenna Requirements

10.1 Antenna Construction and Directional Gain

Antenna type: External antenna

Antenna Gain: 3.0dBi

11. Deviation to test specifications

The following identical model(s):

N/A

Belong to the tested device:

Product description: **RUNNER TUMBLING CAR**Model name: **10085/10086**