



# **TEST REPORT**

Applicant	International Toy INC
Address	17682 COWAN IRVINE, CA 92614

Manufacturer or Supplier	International Toy INC
Address	17682 COWAN IRVINE, CA 92614
Product:	AVTR WRST BNSH S21
Brand Name:	N/A
Model:	N/A
Additional Model & Model Difference	N/A
Date of tests:	Feb. 18, 2021 ~ Feb. 25, 2021

the tests have been carried out according to the requirements of the following standard:

#### FCC Part 15, Subpart C, Section 15.249

#### CONCLUSION: The submitted sample was found to <u>COMPLY</u> with the test requirement

Tested by Evans He Project Engineer / EMC Department Approved by David Huang Supervisor / EMC Department

mars. He

David Huang

#### Date: Feb. 26, 2021

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Bureau Veritas (Shenzhen) Consumer Products Services Co., Ltd.



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# **RELEASE CONTROL RECORD**

ISSUE NO.	DATE ISSUED	
RF2102WSZ0044	Original release	Feb. 26, 2021



# **1 SUMMARY OF TEST RESULTS**

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.249)						
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK			
§15.203	Antenna Requirement	PASS	No antenna connector is used			
§15.207 (a)	\$15.207 (a) Conducted Emission		Powered from battery			
§15.205	Restricted Band of Operation	PASS	Compliant			
§15.209 §15.249(a)	Radiated Emission	PASS	Compliant			
§15.215(c)	20dB Bandwidth Test	PASS	Compliant			

# 2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
	9kHz~30MHz	2.16dB
Radiated emissions	30MHz ~ 1GMHz	3.74dB
Radiated emissions	1GHz ~ 18GHz	4.66dB
	18GHz ~ 40GHz	4.67dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.



## **3 GENERAL INFORMATION**

## 3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	AVTR WRST BNSH S21
MODEL NO.	N/A
ADDITIONAL MODELS	N/A
FCC ID	2ACU8INT107
NOMINAL VOLTAGE	DC 6V(1.5V*LR44*4) from Battery
MODULATION TECHNOLOGY	FSK
OPERATING FREQUENCY	2421.5MHz
ANTENNA TYPE	Wire Antenna,0dBi Gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

#### NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- 3. Please refer to the EUT photo document (Reference No.: 2102WSZ0044) for detailed product photo.



## 3.2 DESCRIPTION OF TEST MODES

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and packet type. The worst case was found when the EUT was positioned on Y axis for radiated emission. The EUT was tested under the following mode.

EUT CONFIGURE MODE		APPLICABLE TO				
		RE<1G	RE≥1G	PLC	BW	DESCRIPTION
А		$\checkmark$	$\checkmark$	-	$\checkmark$	DC 6V from Full Battery
Where <b>RE&lt;1G:</b> Radiated Emission below 1GHz <b>PLC:</b> Power Line Conducted Emission					1GHz sion	<b>RE≥1G:</b> Radiated Emission above 1GHz <b>BW:</b> 20db bandwidth

PLC: Power Line Conducted Emission BW: 20db

**NOTE:** No need to concern of Conducted Emission due to the EUT is powered by battery.

Following channel(s) was (were) selected for the test as listed below.

TESTED CHANNEL	TESTED FREQUENCY
2421.5MHz	2421.5MHz



**Channel List** 

CHANNEL	FREQUENCY	
CHANNEL	(MHZ)	
1	2421.5MHz	

Note: The more detailed channel, please refer to the product specifications

## TEST CONDITION:

APPLICABLE TO ENVIRONMENTAL CONDITIONS		INPUT POWER	TESTED BY
RE	26deg. C, 56%RH	DC 6V from Full Battery	Aaron Liang
BW	26deg. C, 56%RH	DC 6V from Full Battery	Aaron Liang
PLC	-	-	-

#### 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

#### FCC Part 15, Subpart C, Section 15.249

#### ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

#### 3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	-	-	-	-	-

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	-



# 4. TEST TYPES AND RESULTS

## 4.1 RADIATED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 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.



#### 4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESL6	1300.5001K06-10 0262-eQ	Mar. 24, 21
Bilog Antenna	Sunol Sciences	JB6	A110712	Jul. 21, 21
Active Antenna	CMO-POWER	AL-130	121031	Jun. 30, 21
Signal Amplifier	HP	8447E	443008	Mar. 24, 21
Signal and Spectrum Analyzer	R&S	FSV40	101094	Mar. 19, 21
MXA signal analyzer	Agilent	N9020A	MY49100060	Mar. 24, 21
Horn Antenna	COM-POWER	AH-118	71259	Apr. 17, 21
Horn Antenna	COM-POWER	AH-118	71283	Jul. 21, 21
SHF-EHF Horn	Schwarzbeck	BBHA9170	BBHA9170147	May 10, 21
SHF-EHF Horn	Schwarzbeck	BBHA9170	BBHA9170242	May 10, 21
AMPLIFIER	EM Electornic Corporation	EM01G26G	60613	Mar. 24, 21
Pre-amplifier	Rohde&Schwarz	SCU40	100437	Oct. 16, 21
3m Semi-anechoic Chamber	SAEMC	9m*6m*6m	N/A	Oct. 17, 21
Test Software	EZ-EMC	ICP-03A1	N/A	N/A

#### NOTE:

1. The test was performed in 966 Chamber (a 3m Semi-anechoic chamber).

- 2. The calibration interval of the above test instruments is 12 months (Except 3m Semi-anechoic Chamber). And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 3. The horn antenna is used only for the measurement of emission frequency above1GHz if tested 4. The FCC Site Registration No. is 535293.



#### 4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- g. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

#### NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.
- 5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

## 4.1.4 DEVIATION FROM TEST STANDARD

No deviation.



## 4.1.5 TEST SETUP

#### **Below 30MHz test setup**



#### **Below 1GHz test setup**





#### Above 1GHz test setup



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

## 4.1.6 EUT OPERATING CONDITIONS

- a) Turned on the power of all equipment.
- b) EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



## 4.1.7 TEST RESULTS

#### **BELOW 1GHz WORST-CASE DATA**

CHANNEL	2421.5MHz	DETECTOR	Outrail Deals (OD)
FREQUENCY RANGE	9KHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & test distance: HORIZONTAL at 3 m							
No.	Frequency	Reading	Corrected	Result	Limit	Margin	Height	Degree
	(MHz)	(dBuV/m)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	31.7313	28.23	19.99	21.63	0.44	27.03	40.00	-12.97
2	77.0505	27.89	7.58	21.62	0.83	14.68	40.00	-25.32
3	130.8369	26.89	13.29	21.67	1.15	19.66	43.50	-23.84
4	316.5890	27.79	13.87	21.99	1.86	21.53	46.00	-24.47
5	550.9480	28.26	18.12	22.03	2.39	26.74	46.00	-19.26
6	790.6188	29.59	21.27	21.72	2.94	32.08	46.00	-13.92

#### **REMARKS:**

1. Result (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Gain (dB).

3. The emission levels of other frequencies were less than 20dB margin against the limit.

4. 9KHz~30MHz have been test and test data more than 20dB margin.

5. Margin value = Result level – Limit value

80.0 dBuV/m



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CHANNEL	2421.5MHz	DETECTOR	Oursei Desk (OD)
FREQUENCY RANGE	9KHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & test distance: Vertical at 3 m							
No.	Frequency	Reading	Corrected	Result	Limit	Margin	Height	Degree
	(MHz)	(dBuV/m)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	31.1798	28.24	20.37	21.63	0.43	27.41	40.00	-12.59
2	77.8654	28.06	7.53	21.61	0.84	14.82	40.00	-25.18
3	132.2206	26.81	13.24	21.67	1.16	19.54	43.50	-23.96
4	296.1836	28.06	13.55	21.98	1.80	21.43	46.00	-24.57
5	510.0436	27.38	17.78	22.03	2.30	25.43	46.00	-20.57
6	790.6188	30.77	21.27	21.72	2.94	33.26	46.00	-12.74

#### **REMARKS**:

1. Result (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Gain (dB).

3. The emission levels of other frequencies were less than 20dB margin against the limit.

4. 9KHz~30MHz have been test and test data more than 20dB margin.

5. Margin value = Result level - Limit value

80.0 dBuV/m



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## ABOVE 1GHz WORST-CASE DATA:

CHANNEL	2421.5MHz	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
No.	FREQ.	Emission Level	Limit	Margin	Height	Degree	Raw Value	Correction Factor
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)	(dBuV)	(dB/m)
1	2365.08	43.94 PK	74	-30.06	132	147	55.32	-11.38
2	2365.08	27.86 AV	54	-26.14	132	147	39.24	-11.38
3	*2421.5	83.95 PK	114	-30.05	139	99	95.33	-11.38
4	*2421.5	67.87 AV	94	-26.13	139	99	79.25	-11.38
5	2514.12	44.81 PK	74	-29.19	145	44	56.19	-11.38
6	2514.12	28.73 AV	54	-25.27	145	44	40.11	-11.38
7	4843	47.98 PK	74	-26.02	158	326	54.05	-6.07
8	4843	31.9 AV	54	-22.1	158	326	37.97	-6.07
		ANTENNA P	OLARITY & T	TEST DIST	ANCE: V	ERTICAL	AT 3 M	
			Emission Limit Margin Height Degree Raw Corr					
No.	FREQ.	Emission Level	Limit	Margin	Height	Degree	Raw Value	Correction Factor
No.	FREQ. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Raw Value (dBuV)	Correction Factor (dB/m)
<b>No.</b>	FREQ. (MHz) 2367.38	Emission Level (dBuV/m) 43.68 PK	Limit (dBuV/m) 74	Margin (dB) -30.32	Height (cm) 141	<b>Degree</b> (°) 210	Raw Value (dBuV) 55.06	Correction Factor (dB/m) -11.38
<b>No.</b> 1 2	FREQ. (MHz) 2367.38 2367.38	Emission Level (dBuV/m) 43.68 PK 27.6 AV	Limit (dBuV/m) 74 54	Margin (dB) -30.32 -26.4	Height (cm) 141 141	<b>Degree</b> (°) 210 210	Raw           Value           (dBuV)           55.06           38.98	Correction Factor (dB/m) -11.38 -11.38
No.	FREQ. (MHz) 2367.38 2367.38 *2421.5	Emission Level (dBuV/m) 43.68 PK 27.6 AV 82.81 PK	Limit (dBuV/m) 74 54 114	Margin (dB) -30.32 -26.4 -31.19	Height (cm) 141 141 149	<b>Degree</b> (°) 210 210 145	Raw           Value           (dBuV)           55.06           38.98           94.19	Correction Factor (dB/m) -11.38 -11.38 -11.38
No. 1 2 3 4	FREQ. (MHz) 2367.38 2367.38 *2421.5 *2421.5	Emission Level (dBuV/m) 43.68 PK 27.6 AV 82.81 PK 66.73 AV	Limit (dBuV/m) 74 54 114 94	Margin (dB) -30.32 -26.4 -31.19 -27.27	Height           (cm)           141           141           144           149           149	Degree           (°)           210           210           145           145	Raw           Value           (dBuV)           55.06           38.98           94.19           78.11	Correction Factor (dB/m) -11.38 -11.38 -11.38 -11.38
No. 1 2 3 4 5	FREQ. (MHz) 2367.38 2367.38 *2421.5 *2421.5 2533.9	Emission Level (dBuV/m) 43.68 PK 27.6 AV 82.81 PK 66.73 AV 44.93 PK	Limit (dBuV/m) 74 54 114 94 74	Margin (dB) -30.32 -26.4 -31.19 -27.27 -29.07	Height (cm) 141 141 149 149 167	Degree (°) 210 210 145 145 286	Raw           Value           (dBuV)           55.06           38.98           94.19           78.11           56.31	Correction Factor (dB/m) -11.38 -11.38 -11.38 -11.38 -11.38
No. 1 1 2 3 4 5 6	FREQ. (MHz) 2367.38 2367.38 *2421.5 *2421.5 2533.9 2533.9	Emission Level (dBuV/m) 43.68 PK 27.6 AV 82.81 PK 66.73 AV 44.93 PK 28.85 AV	Limit (dBuV/m) 74 54 114 94 74 54	Margin (dB) -30.32 -26.4 -31.19 -27.27 -29.07 -25.15	Height (cm) 141 141 149 149 167 167	Degree (°) 210 210 145 145 286 286	Raw           Value           (dBuV)           55.06           38.98           94.19           78.11           56.31           40.23	Correction Factor (dB/m) -11.38 -11.38 -11.38 -11.38 -11.38 -11.38
No. 1 1 2 3 4 5 6 7	FREQ. (MHz) 2367.38 2367.38 *2421.5 *2421.5 2533.9 2533.9 4843	Emission Level (dBuV/m) 43.68 PK 27.6 AV 82.81 PK 66.73 AV 44.93 PK 28.85 AV 47.92 PK	Limit (dBuV/m) 74 54 114 94 74 54 54	Margin (dB) -30.32 -26.4 -31.19 -27.27 -29.07 -29.07 -25.15 -26.08	Height (cm) 141 141 149 149 167 167 137	Degree (°) 210 210 145 145 286 286 175	Raw           Value           (dBuV)           55.06           38.98           94.19           78.11           56.31           40.23           53.99	Correction Factor (dB/m) -11.38 -11.38 -11.38 -11.38 -11.38 -11.38 -11.38

#### **REMARKS**:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Gain (dB).

3. The emission levels of other frequencies were less than 20dB margin against the limit.

4. Margin value = Emission level – Limit value.

5. " \* ": Fundamental frequency.



#### Band edge Plot





## 4.2 20dB BANDWIDTH MEASUREMENT

#### 4.2.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT

According to FCC 15.215(c), must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Wireless Connectivity Tester	R&S	CMW270	1201.0002K75	Dec. 26, 21
MXA VEXTOR SIGNAL	Agilent	n5182a	MY50140530	Mar. 24, 21
MXA signal analyzer	Agilent	n9020a	MY49100060	Mar. 24, 21
RF Control Unit	Tonscend	JS0806-2	188060112	Mar. 24, 21
Signal Generation	Agilent	E4421B	US40051152	Dec. 17, 21
DC Power Supply	Agilent	E3640A	MY40004013	Mar. 30, 21
Programmable Temperature & Humidity Chamber	Hongjin	HYC-TH-225 DH	DG-180746	Mar. 24, 21
Test System	Tonscend	JS 1120-3	N/A	N/A
Power Splitter	Weinschel	1580-1	TL177	Mar. 27, 21

#### **4.2.2 TEST INSTRUMENTS**

NOTE:

1. The test was performed in RF Oven room.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



#### 4.2.3 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

## 4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.2.5 TEST SETUP



## 4.2.6 EUT OPERATING CONDITIONS

- a) Turned on the power of all equipment.
- b) EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



## 4.2.7 TEST RESULTS

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
2421.5MHz	2421.5	0.2755

#### **Test Data: channel**





## 5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



## 6. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END----