



TEST REPORT No.: (5223)129-0928(A)

TEST REPORT

To :	SILVERLIT TOYS MANUFACTORY LTD.	Fax :	--
Attn :	Mr Edmond Chan Mr Horace Chau	Email :	edmond@silverlit.com horace@silverlit.com wt.angelzhang@silverlit.com
Address :	RM 1102, EAST OCEAN CENTER, 98 GRANVILLE ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG		
Cc :	--	Fax/Email:	--
Attn :	--		
Folder No.:	--	Date of Receipt:	2023-03-02
		Test date :	2023-03-02 to 2023-05-19

MANUFACTURER OR SUPPLIER NAME :	--	
MANUFACTURER OR SUPPLIER ADDRESS :	--	
PRODUCT :	X-WILDFIRE (REDESIGN X-CLAW)	
MODEL REFERENCE :	20646	
ADDITIONAL MODEL & MODEL DIFFERENCE :	SK17064	
RATED VOLTAGE :	Remote: 3Vd.c. ("AA" size battery x 2) Car: 3.7Vd.c. ("Rechargeable battery" x 1)	
REMARKS :	--	
SAMPLE NO. :	(5223)129-0928	

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

ETSI EN 301 489-1 V2.2.3 (2019-11)
ETSI EN 301 489-3 V2.1.1 (2019-03)

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

Assistant Manager,
EMC Department

Name: Kinko Wong
Date: June 02, 2023

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RM2305WDG0074	Original Release	May 23, 2023

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Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

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1 SUMMARY OF TEST RESULTS

After estimating all the combination of every test mode, the result shown as below is the worst case.

The EUT has been tested according to the following specifications.

EMISSION			
Standard	Test Type	Result	Remarks
EN 55032:2015, Class B	Radiated test (30MHz~1GHz)	PASS	Meets limits minimum passing margin is -4.35 dB at 595.83MHz
	Radiated test (Above 1GHz)	PASS	Meets limits minimum passing margin is -8.10dB at 2771.00MHz

IMMUNITY			
Standard	Test Type	Result	Remarks
EN 61000-4-2:2009	Electrostatic discharge immunity test	PASS	Meets the requirements of Performance Criterion A
EN IEC 61000-4-3: 2020	Radiated, radio-frequency, electromagnetic field immunity test	PASS	Meets the requirements of Performance Criterion A



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1.1 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:

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

Measurement	Frequency	Uncertainty
Radiated emissions	30MHz~1GHz	+/- 4.34dB
	1GHz-6GHz	+/- 4.84dB



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2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	X-WILDFIRE (REDESIGN X-CLAW)
MODEL NO.	20646
ADDITIONAL MODELS	SK17064
POWER SUPPLY	Remote: DC 3V(1.5V*AA*2) from battery Car: DC 3.7V from Li-ion battery
RANGE OF FREQUENCY	2410MHz-2473MHz
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTES:

1. For a more detailed features description, please refer to the product specifications or the User's Manual.
2. For the test results, the EUT had been tested with all conditions, and only the worst case was shown in this test report.
3. Please refer to the EUT photo document (Reference No.: 2305WDG0074) for detailed product photo.
4. Additional model SK17064 is identical with the test model 20646 except the shell of the appearance and model number for trading purpose.



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2.2 DESCRIPTION OF TEST MODE

The EUT was tested under the following modes. And the final worst mode was marked in boldface and recorded in this report.

RADIATED EMISSION TEST: (Below 1GHz)

Description of Test Mode	Test Voltage
TX,RX LINK Normal Working	Car: DC 3.7V from Li-ion battery; Remote control: DC 3V from battery
Standby	
Transmit	
Receive	

RADIATED EMISSION TEST: (Above 1GHz)

Description of Test Mode	Test Voltage
TX,RX LINK Normal Working	Car: DC 3.7V from Li-ion battery; Remote control: DC 3V from battery
Standby	
Transmit	
Receive	

IMMUNITY TESTS:

Description of Test Mode	Test Voltage
TX,RX LINK Normal Working	Car: DC 3.7V from Li-ion battery; Remote control: DC 3V from battery
Standby	
Transmit	
Receive	



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2.3 GENERAL DESCRIPTION OF APPLIED STANDARD

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

EN 301 489-1 V2.2.3 (2019-11)

EN 301 489-3 V2.1.1 (2019-03)

EN 55032:2015, Class B

EN 61000-4-2:2009

EN IEC 61000-4-3:2020

Note: The above EN basic standards are applied with latest version if customer has no special requirement.

The EUT is without AC input function and therefore the test items, Harmonic, Flicker, EFT, SURGE, CS, and Dip were not tested.

2.4 DESCRIPTION OF SUPPORT UNIT

The EUT has been tested as an independent unit together without any other necessary accessories or support units.



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3 EMISSION TEST

3.1 RADIATED EMISSION MEASUREMENT

3.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: EN 55032

FOR FREQUENCY BELOW 1000 MHz

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	Quasi-Peak (dBuV/m)	Quasi-Peak (dBuV/m)
30 – 230	40	30
230 – 1000	47	37

FREQUENCY (MHz)	Class A (at 3m)	Class B (at 3m)
	Quasi-Peak (dBuV/m)	Quasi-Peak (dBuV/m)
30 – 230	50	40
230 – 1000	57	47

For FM receivers

Distance (m)	Source	Frequency Range (MHz)	Limits dB (uV/m)	
			Quasi-peak	
10	Local oscillator	≤1000	Fundamental	50
		30 to 300	Harmonics	42
	Other	300 to 1000	Harmonics	46
		30 to 230		30
3	Local oscillator	≤1000	Fundamental	60
		30 to 300	Harmonics	52
	Other	300 to 1000	Harmonics	56
		30 to 230		40
		230 to 1000		47

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 2 Kai Hing Road, Kowloon Bay,
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FREQUENCY RANGE OF RADIATED MEASUREMENT

(For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	Up to 5 times of the highest frequency or 6 GHz, whichever is less

FOR FREQUENCY ABOVE 1000 MHz

FREQUENCY (GHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
1 to 3	76	56	70	50
3 to 6	80	60	74	54

- NOTES:** (1) The lower limit shall apply at the transition frequencies.
 (2) Emission level (dBuV/m) = 20 log Emission level (uV/m).
 (3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.



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3.1.2 TEST INSTRUMENTS

FREQUENCY RANGE BELOW 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU8	100372	Apr. 06, 24
Bilog Antenna	Sunol Sciences	JB1	A112107	July. 05, 24
Pre-Amplifier	HP	8447E	2727A02430	Feb. 29, 24
3m Semi-anechoic Chamber	Burgeon	9m*6m*6m	D3040001DG-1	July 22, 24
Coaxial RF Cable	TIMES	SFT205-NMNM-9.00M	532735-0001	July 11, 23
Coaxial RF Cable	TIMES	SFT205-NMNM-2.50M	532735-0001	July 11, 23
Coaxial RF Cable	ZDECL	Z302S-NJ-NJ-1.2M	18095226	July 11, 23
Test software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A

FREQUENCY RANGE ABOVE 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Horn Antenna	COM-POWER	AH-118	071283	Apr. 08, 24
Horn Antenna	SCHWARZBECK	BBHA 9170	01023	Oct. 16, 23
Spectrum Analyzer	Agilent	E4407B	MY45108319	Jan. 15, 24
Broadband Preamplifier	EME	EM01G26G	60613	Feb. 29, 24
3m Semi-anechoic Chamber	Burgeon	9m*6m*6m	D3040001DG-1	July 22, 24
Coaxial RF Cable	TIMES	SFT205-NMNM-9.00M	532735-0001	July 11, 23
Coaxial RF Cable	TIMES	SFT205-NMNM-2.50M	532735-0001	July 11, 23
Coaxial RF Cable	ZDECL	Z302S-SMAJ-SMAJ-1.5M	18095240	July 11, 23
Coaxial RF Cable	TIMES	HF160-KMKM-2.00M	533245-0001	July 11, 23
Coaxial RF Cable	TIMES	HF160-KMKM-5.00M	533247-0001	July 11, 23
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A

- NOTES:**
1. The test was performed in 966 Chamber-1 (a 3m Semi-anechoic chamber).
 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.
 3. Test site: No. 122, Houjie Avenue West Houjie Town, Dongguan City Guangdong Province, 523960, People's Republic of China.



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3.1.3 TEST PROCEDURE

<Frequency Range below 1GHz>

- a. 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. 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 height of antenna is varied from 1 meter to 4 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 quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

NOTES:

1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain(dB) (if the raw value contains the amplifier).
5. Margin value = Emission level – Limit value.



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<Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. 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 height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. The bore sight should be used during the test above 1GHz. The bore sight should be used during the test above 1GHz.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test receiver/spectrum was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

NOTES:

1. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.
2. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
3. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
5. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain(dB) (if the raw value contains the amplifier).
6. Margin value = Emission level – Limit value.



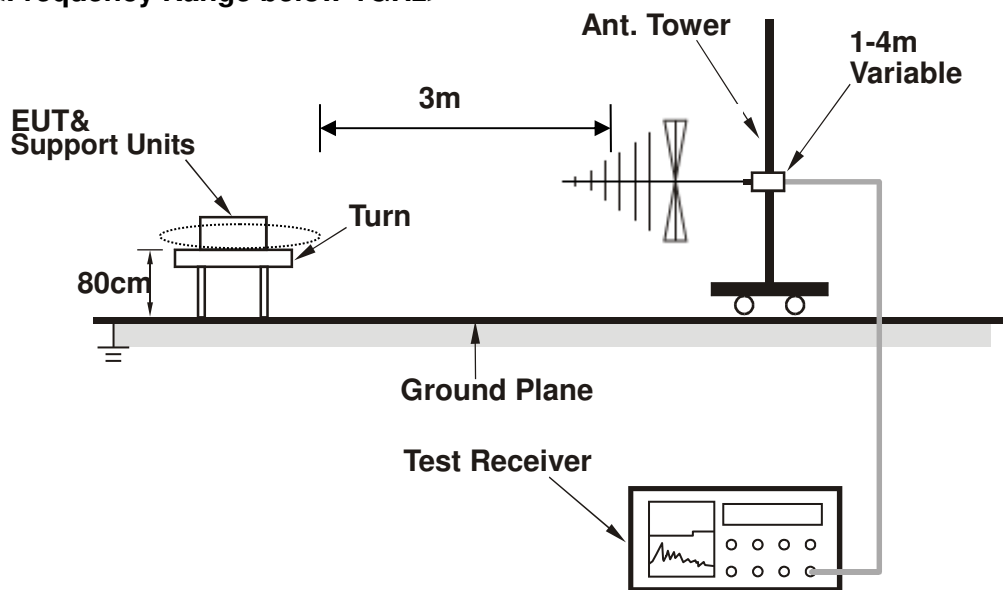
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3.1.4 DEVIATION FROM TEST STANDARD

No deviation.

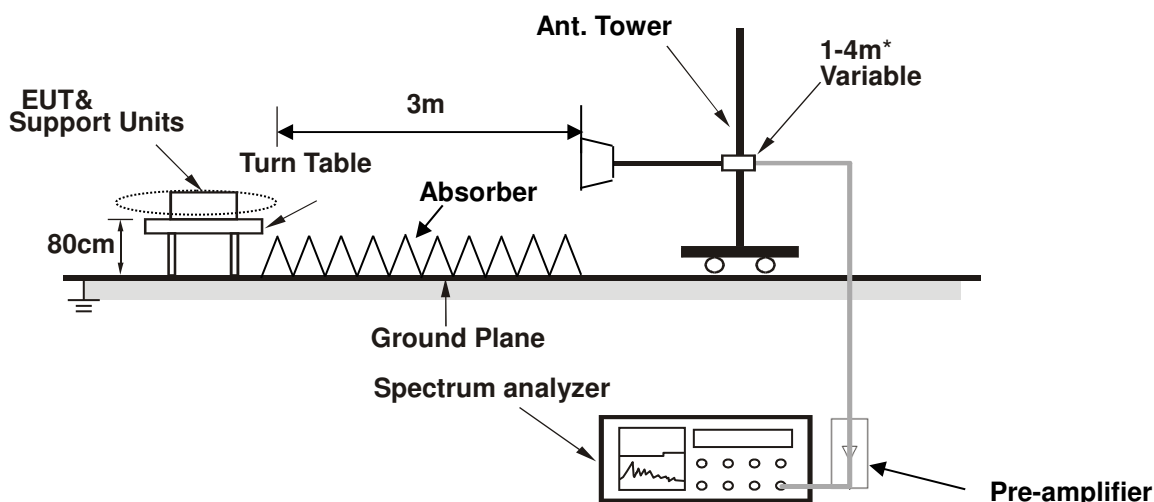
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3.1.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



*: depends on the EUT height and the antenna 3dB beam width both, refer to section 7.3 of CISPR 16-2-3



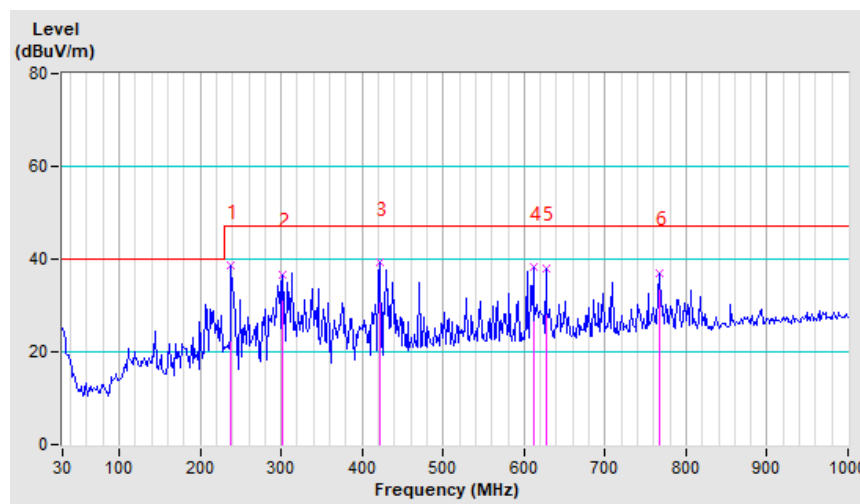
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3.1.6 TEST RESULTS (BELOW 1GHz)

TEST MODE	See section 2.2	FREQUENCY RANGE	30-1000 MHz
TEST VOLTAGE	See section 2.2	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	23deg. C, 61% RH	TESTED BY: Jay	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	238.30	-8.27	46.78	38.51	47.00	-8.49	100	0
2	302.04	-6.66	43.38	36.72	47.00	-10.28	100	0
3	421.73	-3.67	42.85	39.18	47.00	-7.82	100	0
4	611.38	-0.36	38.53	38.17	47.00	-8.83	100	0
5	626.92	0.04	38.08	38.12	47.00	-8.88	100	0
6	766.83	2.25	34.68	36.93	47.00	-10.07	100	0

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 30MHz to 1000MHz.
 4. Only emissions significantly above equipment noise floor are reported.



BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
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 Fax: +852 2331 0889
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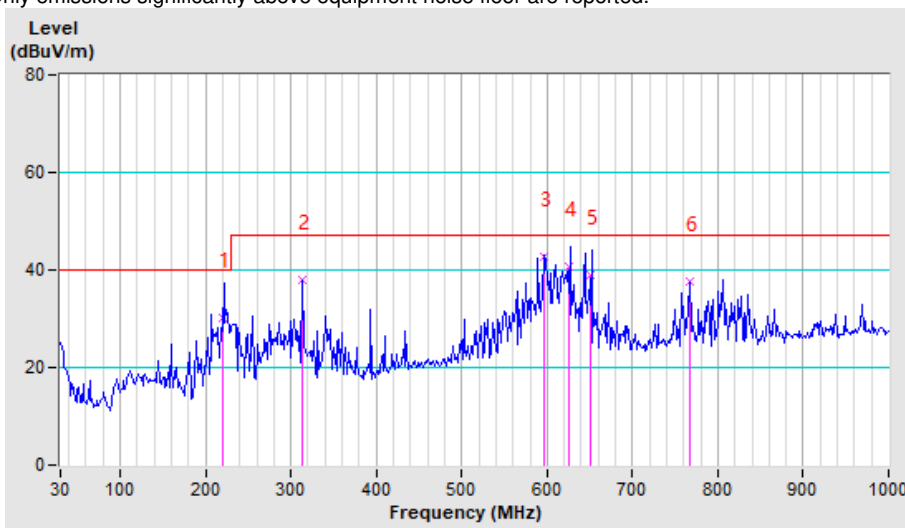


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TEST MODE	See section 2.2	FREQUENCY RANGE	30-1000 MHz
TEST VOLTAGE	See section 2.2	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	23deg. C, 61% RH	TESTED BY: Jay	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	221.00	-7.85	37.95	30.10	40.00	-9.90	100	0
2	312.92	-6.45	44.35	37.90	47.00	-9.10	100	0
3	595.83	-0.67	43.32	42.65	47.00	-4.35	100	0
4	626.00	0.02	40.78	40.80	47.00	-6.20	100	0
5	651.00	0.64	38.46	39.10	47.00	-7.90	100	0
6	766.83	2.25	35.44	37.69	47.00	-9.31	100	0

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 30MHz to 1000MHz.
 4. Only emissions significantly above equipment noise floor are reported.



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3.1.7 TEST RESULTS (ABOVE 1GHz)

TEST MODE	See section 2.2		
TEST VOLTAGE	See section 2.2	See section 2.2	See section 2.2
ENVIRONMENTAL CONDITIONS	23deg. C, 61% RH	23deg. C, 61% RH	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	1357.00PK	-17.14	69.94	52.80	70.00	-17.20	100	114
2	1357.00AV	-17.14	53.24	36.10	50.00	-13.90	100	114
3	3117.00PK	-11.35	69.25	57.90	74.00	-16.10	100	46
4	3117.00AV	-11.35	49.75	38.40	54.00	-15.60	100	46
5	4513.00PK	-8.10	68.3	60.20	74.00	-13.80	100	62
6	4513.00AV	-8.10	47.6	39.50	54.00	-14.50	100	62

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	1677.00PK	-15.46	70.06	54.60	70.00	-15.40	100	138
2	1677.00AV	-15.46	51.26	35.80	50.00	-14.20	100	138
3	2771.00PK	-11.92	72.02	60.10	70.00	-9.90	100	205
4	2771.00AV	-11.92	53.82	41.90	50.00	-8.10	100	205
5	4415.00PK	-8.51	67.41	58.90	74.00	-15.10	100	78
6	4415.00AV	-8.51	48.61	40.10	54.00	-13.90	100	78

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 1GHz to 6GHz.
 4. Only emissions significantly above equipment noise floor are reported.



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4 IMMUNITY TEST

4.1 GENERAL DESCRIPTION

Product Standard	EN 301 489-1 V2.2.3 (2019-11) EN 301 489-3 V2.1.1 (2019-03)	
Basic Standard, Specification, and Performance Criterion required	EN 61000-4-2	Electrostatic Discharge – ESD: 8 kV air discharge, 4 kV Contact discharge, Performance Criterion B
	EN IEC 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test – RS: 80~6000 MHz, 3 V/m, 80% AM (1 kHz), Performance Criterion A

For EN 301 489-3

The phenomena allowed during and after test in each criterion are clearly stated in the following table.

Performance criteria		
Criteria	During test	After test
A	Operate as intended No loss of function No unintentional responses	Operate as intended No loss of function No degradation of performance No loss of stored data or user programmable functions
B	May show loss of function No unintentional responses	Operate as intended Loss of function(s) shall be self-recoverable No degradation of performance No loss of stored data or user programmable functions



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4.2 ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)

4.2.1 TEST SPECIFICATION

Basic Standard:	EN 61000-4-2
Discharge Impedance:	330 ohm / 150 pF
Discharge Voltage:	Air Discharge: 8 kV (Direct) Contact Discharge: 4 kV (Direct and Indirect)
Polarity:	Positive & Negative
Number of Discharge:	20 times on each test points
Discharge Mode:	Single Discharge
Discharge Period:	1 second

4.2.2 TEST INSTRUMENT

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
ESD Generator	TESEQ	NSG 437	279	Feb. 20, 24
Test Software	TESEQ	V03.03	N/A	N/A

- NOTES:** 1. The test was performed in ESD 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.



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4.2.3 TEST PROCEDURE

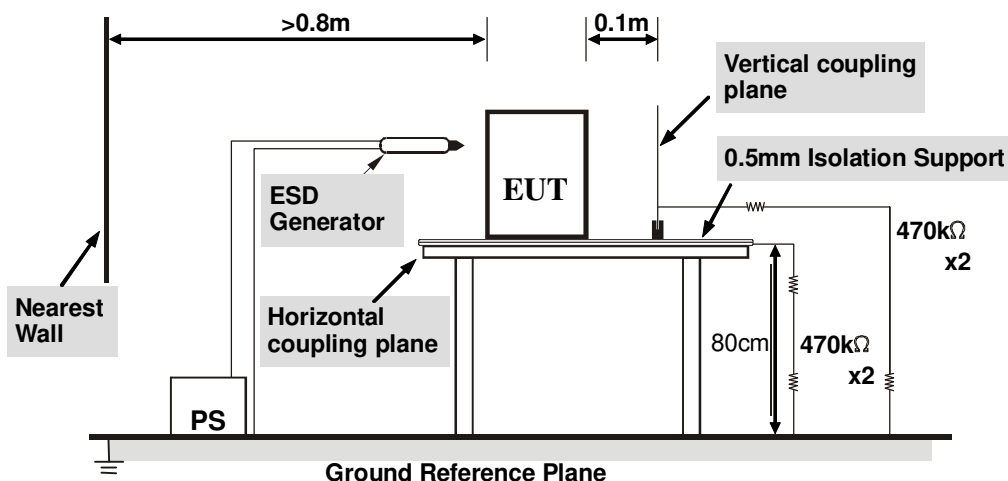
- a. Electrostatic discharges were applied only to those points and surfaces of the EUT that are accessible to users during normal operation.
- b. The test was performed with at least ten single discharges on the pre-selected points in the most sensitive polarity.
- c. The time interval between two successive single discharges was at least 1 second.
- d. The discharge return cable of the generator shall be kept at a distance of at least 0.2 m from the EUT whilst the discharge is being applied and should not be held by the operator.
- e. Contact discharges were applied to the non-insulating coating, with the pointed tip of the generator penetrating the coating and contacting the conducting substrate.
- f. Air discharges were applied with the round discharge tip of the discharge electrode approaching the EUT as fast as possible (without causing mechanical damage) to touch the EUT. After each discharge, the ESD generator was removed from the EUT and re-triggered for a new single discharge. The test was repeated until all discharges were complete.
- g. At least ten single discharges (in the most sensitive polarity) were applied to the **Horizontal Coupling Plane** at points on each side of the EUT. The ESD generator was positioned horizontally at a distance of 0.1 meters from the EUT with the discharge electrode touching the **HCP**.
- h. At least ten single discharges (in the most sensitive polarity) were applied to the center of one vertical edge of the **Vertical Coupling Plane** in sufficiently different positions that the four faces of the EUT were completely illuminated. The **VCP** (dimensions 0.5m x 0.5m) was placed vertically to and 0.1 meters from the EUT.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

TEST REPORT No.: (5223)129-0928(A)

4.2.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

NOTE:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table 0.8 meters high standing on the **Ground Reference Plane**. The **GRP** consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A **Horizontal Coupling Plane** (1.6m x 0.8m) was placed on the table and attached to the **GRP** by means of a cable with 940kΩ total impedance. The equipment under test, was installed in a representative system as described in section 7 of EN 61000-4-2 and its cables were placed on the **HCP** and isolated by an insulating support of 0.5mm thickness. A distance of 0.8 minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.



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4.2.6 TEST RESULTS

TEST VOLTAGE	Car: DC 3.7V from Li-ion battery; Remote control: DC 3V from battery	ENVIRONMENTAL CONDITIONS	23.4deg. C, 49.8% RH, 100.2kPa
TESTED BY	Zhuolin Peng		

Direct Discharge Application				
Test Level (kV)	Polarity	Test Point	Test Result of Contact Discharge	Test Result of Air Discharge
4	+ / -	All metal parts	A	N/A
8	+ / -	All non-metal parts	N/A	A

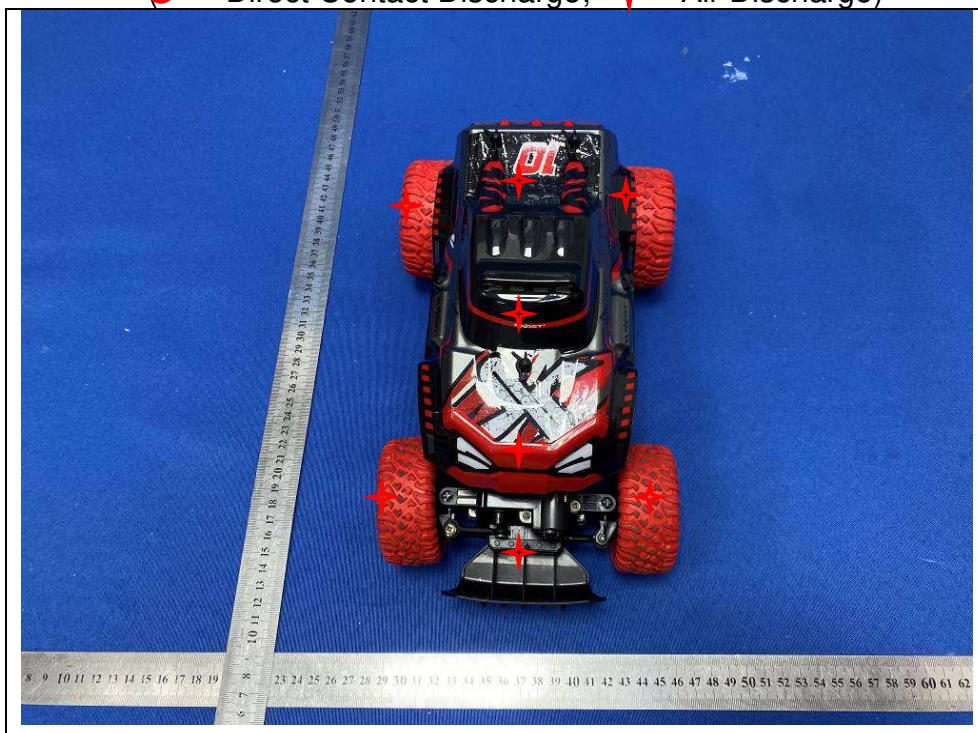
Indirect Discharge Application				
Discharge Level (kV)	Polarity	Test Point	Test Result of HCP	Test Result of VCP
4	+ / -	All Sides	A	N/A
4	+ / -	All Sides	N/A	A

NOTE: A: There was no change compared with initial operation during the test.

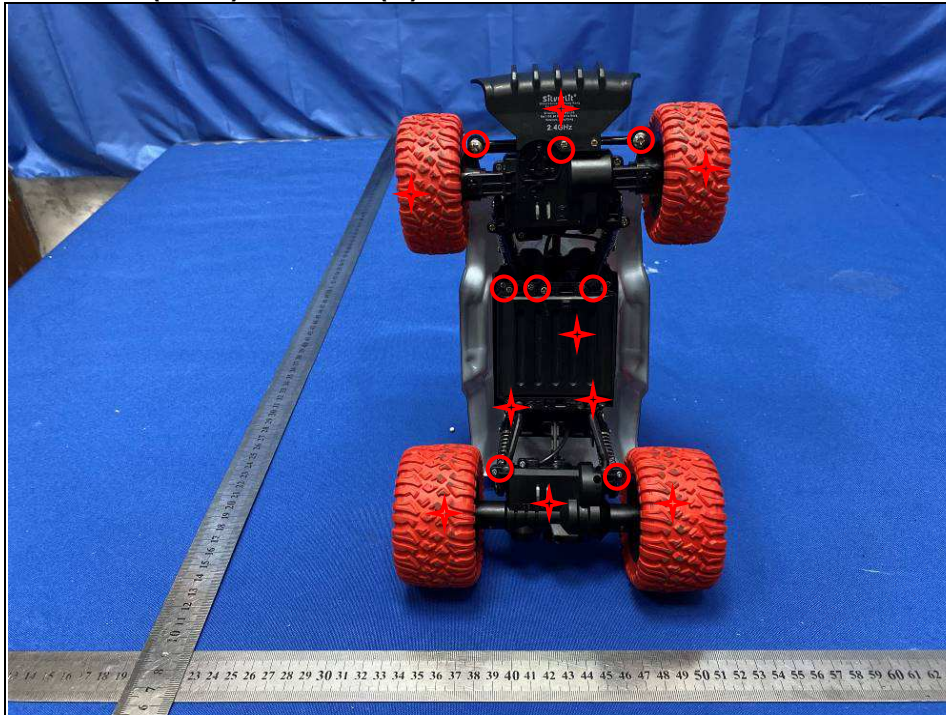
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ESD TEST POINT

○ - Direct Contact Discharge; ✦ - Air Discharge



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TEST REPORT No.: (5223)129-0928(A)



BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

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4.3 RADIATED, RADIO-FREQUENCY, ELECTROMAGNETIC FIELD IMMUNITY TEST (RS)

4.3.1 TEST SPECIFICATION

Basic Standard:	EN IEC 61000-4-3
Frequency Range:	80 MHz ~ 6000 MHz
Field Strength:	3 V/m
Modulation:	1 kHz Sine Wave, 80%, AM Modulation
Frequency Step:	10% of preceding frequency value
Polarity of Antenna:	Horizontal and Vertical
Antenna Height:	1.5 m
Dwell Time:	3 seconds

4.3.2 TEST INSTRUMENT

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Signal Generator	Agilent	N5181A	MY50142530	Jul. 27, 23
Antenna Log-Periodic	AR	ATR80M6G	0337307	N/A
Antenna Log-Periodic	AR	ATS700M11G	0336821	N/A
Switch Controller	AR	SC1000	0337343	N/A
RF Power Meter	Boonton	4242	13984	Jul. 20, 23
Power Sensor	Keysight	U2021XA	MY55060016	Jan. 11, 24
Power Sensor	Boonton	51011EMC	25715	Jul. 20, 23
E-Field probe	Narda	NBM-520	2403/01B	Apr. 05, 24
E-Field probe	Narda	EP601	8112X01099	Apr. 05, 24
Power Amplifier	TESEQ	CBA 1G-150	T44029	N/A
Power Amplifier	TESEQ	CBA 3G-100	T44030	N/A
Power Amplifier	TESEQ	CBA 6G-050	1041204	N/A
Dual Directional Coupler	TESEQ	C5982	95208	Jul. 20, 23
Dual Directional Coupler	TESEQ	C6187	95175	Jul. 20, 23
Dual Directional Coupler	TESEQ	CPH-274F	M251304-01	Jul. 20, 23
Audio analyzer	Rohde&Schwarz	UPV	101397	Jul. 27, 23
Conditioning Amplifier	B&K	2690-W-013	3241205	Feb. 19, 24
Ear Simulator	B&K	4192	2794113	Apr. 26, 24
Test Software	Tonscend	TS+	3.0.0.1	N/A
Test Software	ADT	BVADT_RS_V7.6.4-DG	N/A	N/A

NOTES: 1. The test was performed in RS chamber-2.

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.



TEST REPORT No.: (5223)129-0928(A)

4.3.3 TEST PROCEDURE

The test procedure was in accordance with EN IEC 61000-4-3.

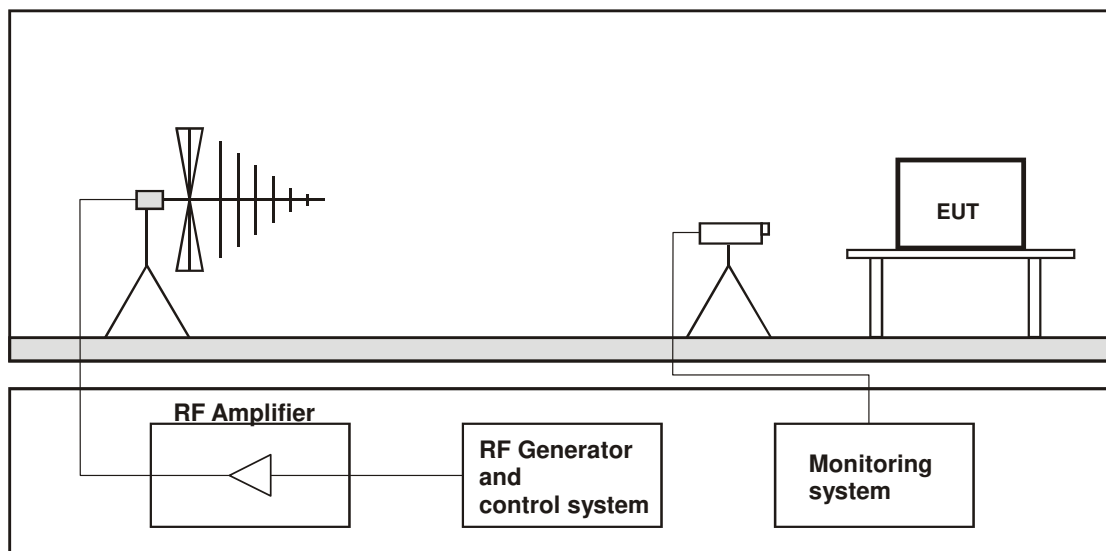
- a. The testing was performed in a fully-anechoic chamber.
- b. The frequency range is swept from 80 MHz to 6000 MHz with the signal 80% amplitude modulated with a 1 kHz sine wave.
- c. The dwell time at each frequency shall not be less than the time necessary for the EUT to be exercised and to respond, but shall in no case be less than 0.5s.
- d. The field strength level was 3 V/m.
- e. The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

TEST REPORT No.: (5223)129-0928(A)

4.3.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

NOTE:

TABLETOP EQUIPMENT

The EUT installed in a representative system as described in section 7 of EN IEC 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.



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4.3.6 TEST RESULTS

TEST VOLTAGE	Car: DC 3.7V from Li-ion battery; Remote control: DC 3V from battery	ENVIRONMENTAL CONDITIONS	24.7deg. C, 59.2% RH
TESTED BY	Albert		

Field Strength (V/m)	Test Frequency Note ^{#1} (MHz)	Polarization of antenna (Horizontal / Vertical)	Test Distance (m)	Test Result	Remark
3	80-6000	H / V	3	A	N/A

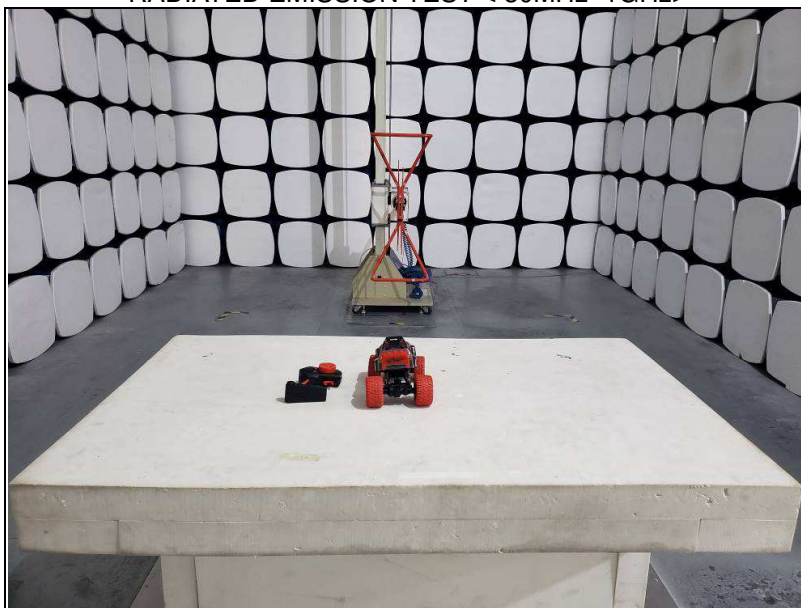
Note^{#1}: Tested Israel SII Frequencies 89,100,107,144,163,196,244,315,434,460,600,825,845,880 MHz

NOTE: A: There was no change compared with initial operation during the test.

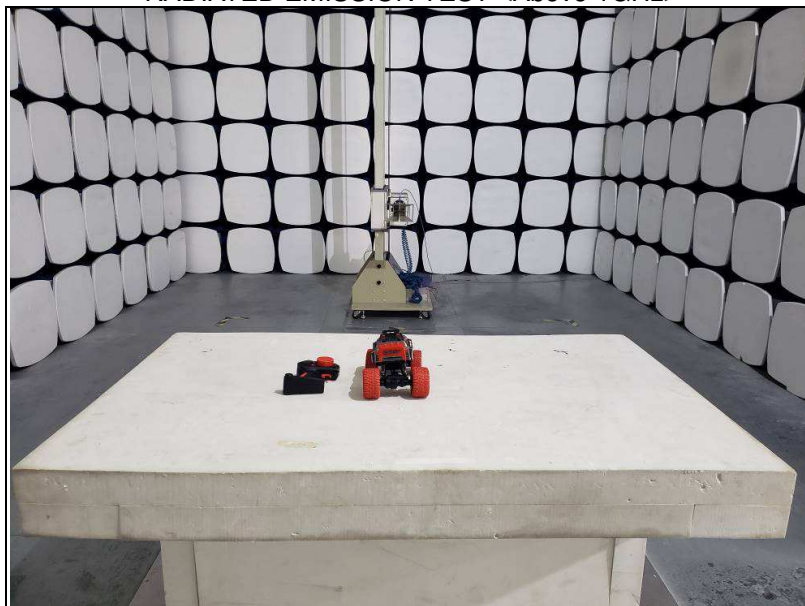
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5 PHOTOGRAPHS OF THE TEST CONFIGURATION

RADIATED EMISSION TEST < 30MHz~1GHz>



RADIATED EMISSION TEST <Above 1GHz>





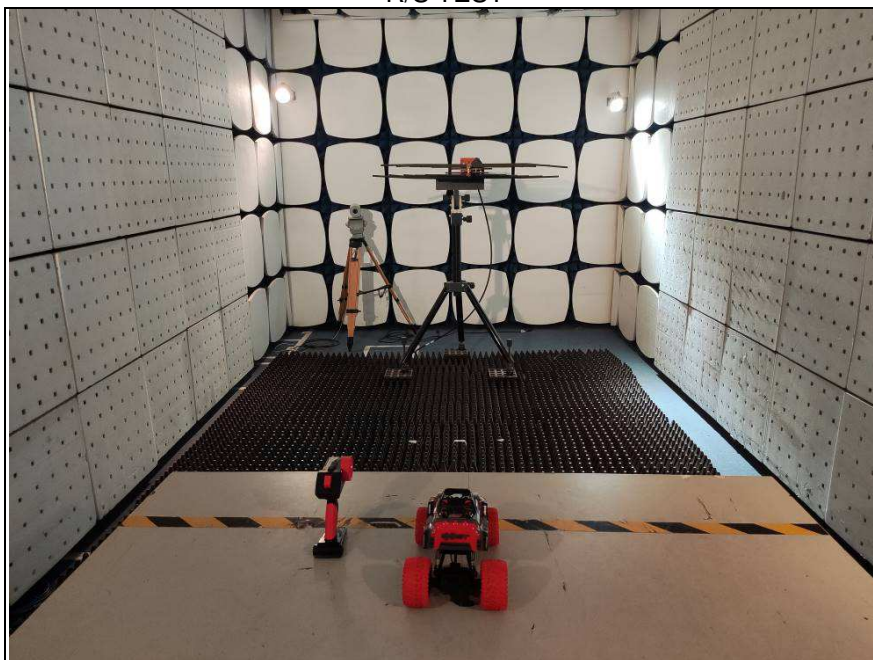
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ESD TEST



R/S TEST



BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

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6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

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

---END---