

TEST REPORT

To :	SILVERLIT TOYS MANUFACTORY L	۲D.	Fax :				
Attn :	Mr Edmond Chan Mr Horace Chau			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: Test date :		2023-02-22 2023-02-22 to 2023-03-06	

MANUFACTURER OR SUPPLIER NAME :		
MANUFACTURER OR SUPPLIER ADDRESS :		
PRODUCT :	SPEED CHASER	
MODEL REFERENCE :	20644	
ADDITIONAL MODEL & MODEL DIFFERENCE :	SK17060	
RATED VOLTAGE :	Remote: 3Vd.c. ("AA" size battery x 2) Car: 3.7Vd.c. ("Rechargeable battery x 1)	
REMARKS :		**************************************
SAMPLE NO. :	(5223)069-0329	
The submitted sample of t standards:	he above equipment has been tested according to	the requirements of the following
EN IEC 55014-1-2021		

EN IEC 55014-1:2021 EN IEC 55014-2:2021

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

Assistant Manager, EMC Department

Name: Kinko Wong Date: March 30, 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



TEST REPORT No.: (5223)069-0329(C) Table of Contents

RELEA	ASE CONTROL RECORD	. 3
1 1.1 1.2 1.3 1.4 2 2.1 2.1.1	GENERAL INFORMATION GENERAL DESCRIPTION OF EUT DESCRIPTION OF TEST MODES DESCRIPTION OF SUPPORT UNITS SUMMARY OF TEST RESULTS EMISSION TEST TERMINAL CONTINUOUS DISTURBANCE VOLTAGE EMISSION MEASUREMENT TEST INSTRUMENTS	4 5 6 7
2.1.2 2.2 2.2.1 2.2.2	TEST RESULTS RADIATED EMISSION MEASUREMENT TEST INSTRUMENTS TEST RESULTS	8 12 12 13
3 3.1 3.2 3.2.1 3.2.2 3.2.3 3.3 3.3.1 3.3.2 3.3.3 3.4 3.4.1 3.4.2 3.4.3 3.5	IMMUNITY TEST GENERAL PERFORMANCE CRITERIA DESCRIPTION ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD) TEST SPECIFICATION TEST INSTRUMENTS TEST RESULTS LECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST (EFT) TEST SPECIFICATION TEST INSTRUMENTS TEST RESULTS SURGE IMMUNITY TEST TEST SPECIFICATION TEST SPECIFICATION TEST SPECIFICATION TEST RESULTS SURGE IMMUNITY TEST TEST RESULTS TEST RESULTS TEST RESULTS INSTRUMENTS TEST RESULTS IMMUNITY TO CONDUCTED DISTURBANCES INDUCED BY RF FIELDS (CS)	15 16 16 17 19 19 20 21 21 21 22
	TEST SPECIFICATION TEST INSTRUMENTS TEST RESULTS	23
4	PHOTOGRAPHS OF THE TEST CONFIGURATION	25
5 CHAN	APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING GES TO THE EUT BY THE LAB	29



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
CE2302WDG0182	Original release	Mar. 07, 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



1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	SPEED CHASER
MODEL NO.	20644
ADDITIONAL MODEL	SK17060
	Car: DC 3.7 From Li-ion Battery
POWER SUPPLY	Remote Control: DC 3V(1.5V*2*AA) From Battery
	Charging: DC 5V From USB Host Unit
GROUP / CATEGORY	Category III
THE HIGHEST CLOCK	Below 15MHz
FREQUENCY	
CABLE SUPPLIED	USB Line: Detachable, Unshielded, 0.6m

Notes:

- 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.: 2302WDG0182) for detailed product photo.
- 4. Additional models SK17060 are identical with the test model 20644 except the shell of the appearance and model number for trading purpose.



1.2 DESCRIPTION OF TEST MODES

The EUT was tested under the **Charging** mode for all tests.

1.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as a dependent 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.	PROVIDED BY
1	Adapter	N/A	5V 1A	N/A	Lab



1.4 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

EMISSION									
Standard	Test Type	Result	Remark						
	Terminal continuous		Meets limits minimum						
	disturbance voltage	PASS	passing margin is						
	emission test (AC Mains)		-11.99dB at 0.54790MHz						
EN IEC 55014-1:	Terminal continuous		Meets requirement limit						
2021	disturbance voltage	PASS	Minimum passing margin is						
2021	emission test (DC Port)		-6.15 dB at 10.26600 MHz						
	Radiated Test		Meets Limits Minimum						
	(30MHz~1GHz)	PASS	passing margin is						
			-9.68dB at 159.99MHz						

IMMUNITY EN IEC 55014-2								
Standard	Test Type	Result	Remark					
IEC 61000-4-2:2008 ED. 2.0	Electrostatic discharge immunity test	PASS	Meets the requirements of Performance Criterion A					
IEC 61000-4-4:2012 ED. 3.0	Electrical fast transient / burst immunity test.	PASS	Meets the requirements of Performance Criterion A					
IEC 61000-4-5:2017 ED. 3.1	Surge immunity test	PASS	Meets the requirements of Performance Criterion A					
IEC 61000-4-6:2013 ED. 4.0	Immunity to conducted disturbances, induced by radio-frequency fields	PASS	Meets the requirements of Performance Criterion A					



2 EMISSION TEST

2.1 TERMINAL CONTINUOUS DISTURBANCE VOLTAGE EMISSION MEASUREMENT

2.1.1 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Jan. 10,24
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Jan. 11,24
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Jan. 10,24
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Jul. 27, 23
Coaxial RF Cable	/	CE CABLE	C2310066DG	Jul. 24, 23
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A

NOTES: 1. The test was performed in shielded room 553.

- 2. Peak and average detector quick scan are showed on the graph and final quasi-peak and average detector data are measured, the worst-case is recorded in the following graph and table.
- 3. Frequency range scanned: 150kHz to 30MHz.
- 4. Only emissions significantly above equipment noise floor are reported.
- 5. Uncertainty: ±2.68dB at a level of confidence of 95%.
- 6. The calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

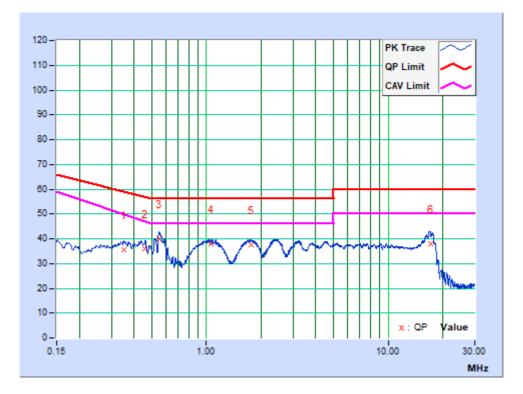


2.1.2 TEST RESULTS

AC Mains:

TEST MODE	Charging	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 5V From USB Host Unit	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 58% RH	TESTED BY	Summer

	Freq.	Corr.	Readin	g Value		sion vel	Li	mit	Mai	rgin
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.35025	10.19	25.54	16.50	35.73	26.69	58.96	49.84	-23.23	-23.15
2	0.45906	10.20	25.81	19.52	36.01	29.72	56.71	46.92	-20.70	-17.20
3	0.54790	10.22	29.68	23.79	39.90	34.01	56.00	46.00	-16.10	-11.99
4	1.05736	10.24	27.60	21.75	37.84	31.99	56.00	46.00	-18.16	-14.01
5	1.75875	10.26	27.33	21.46	37.59	31.72	56.00	46.00	-18.41	-14.28
6	17.05650	10.86	26.98	16.45	37.84	27.31	60.00	50.00	-22.16	-22.69

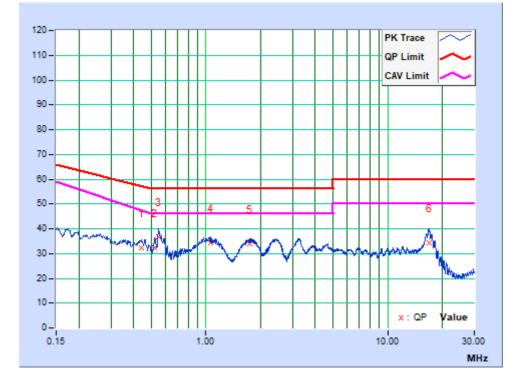


BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889 www.cps.bureauveritas.com



TEST MODE	Charging	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 5V From USB Host Unit	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 58% RH	TESTED BY	Summer

	Freq.	Corr.	Readin	g Value	Emis Le	sion vel	Lir	nit	Mar	gin
No		Factor	[dB ((uV)]	[dB ((uV)]	[dB	(uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.43891	10.16	22.02	16.15	32.18	26.31	57.08	47.41	-24.90	-21.10
2	0.52109	10.17	22.04	16.21	32.21	26.38	56.00	46.00	-23.79	-19.62
3	0.54825	10.18	26.47	21.28	36.65	31.46	56.00	46.00	-19.35	-14.54
4	1.05736	10.20	24.25	18.48	34.45	28.68	56.00	46.00	-21.55	-17.32
5	1.73625	10.23	23.74	18.02	33.97	28.25	56.00	46.00	-22.03	-17.75
6	16.83825	11.15	23.21	10.39	34.36	21.54	60.00	50.00	-25.64	-28.46



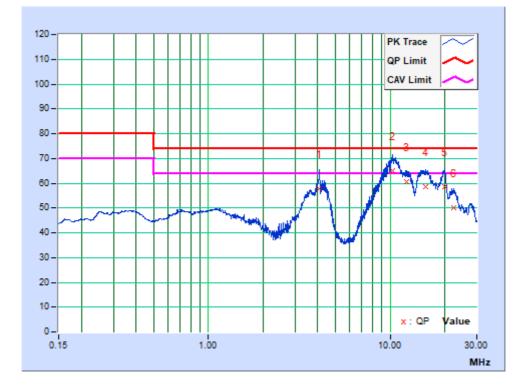
BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889 www.cps.bureauveritas.com



DC Port:

TEST MODE	Charging	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 5V From USB Host Unit	PHASE	Positive (+)
ENVIRONMENTAL CONDITIONS	25deg. C, 58% RH	TESTED BY	Summer

	Freq.	Corr.	Readin	Reading Value		Emission Level		Limit		gin
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	4.08975	29.84	27.98	12.11	57.82	41.95	74.00	64.00	-16.18	-22.05
2	10.26600	29.94	35.25	27.91	65.19	57.85	74.00	64.00	-8.81	-6.15
3	12.36300	29.98	30.58	24.42	60.56	54.40	74.00	64.00	-13.44	-9.60
4	15.75150	30.06	28.66	23.00	58.72	53.06	74.00	64.00	-15.28	-10.94
5	20.01975	30.15	28.27	21.51	58.42	51.66	74.00	64.00	-15.58	-12.34
6	22.37550	30.16	19.80	12.57	49.96	42.73	74.00	64.00	-24.04	-21.27

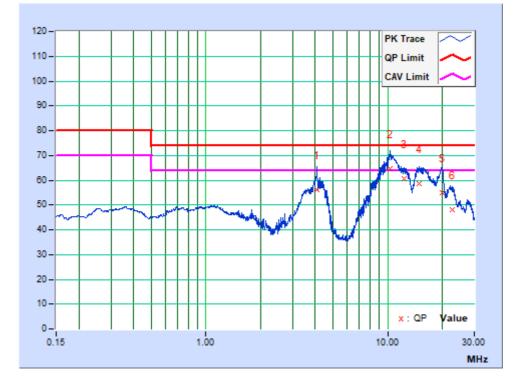


BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889 www.cps.bureauveritas.com



TEST MODE	Charging	\6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 5V From USB Host Unit	PHASE	Negative (-)
ENVIRONMENTAL CONDITIONS	25deg. C, 58% RH	TESTED BY	Summer

	Freq.	Corr.	Readin	g Value	Emis Le	sion vel	Lir	nit	Mar	gin
No		Factor	[dB ((uV)]	[dB ((uV)]	[dB ((uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	4.08623	29.84	26.45	11.93	56.29	41.77	74.00	64.00	-17.71	-22.23
2	10.37850	29.94	34.53	27.85	64.47	57.79	74.00	64.00	-9.53	-6.21
3	12.25050	29.98	30.79	24.64	60.77	54.62	74.00	64.00	-13.23	-9.38
4	14.98200	30.04	28.35	20.13	58.39	50.17	74.00	64.00	-15.61	-13.83
5	19.85550	30.15	24.95	18.06	55.10	48.21	74.00	64.00	-18.90	-15.79
6	22.82775	30.16	17.83	11.31	47.99	41.47	74.00	64.00	-26.01	-22.53



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



2.2 RADIATED EMISSION MEASUREMENT

2.2.1 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU26	100005	Apr. 19, 23
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Jan. 10, 24
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-555	Jan. 08, 24
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Jan. 08, 24
Preamplifier	EMCI	EMC1135	980378	Mar. 09, 23
Preamplifier	EMCI	EMC1135	980423	Mar. 09, 23
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8.8m	NSEMC006	Oct. 15, 23
Coaxial RF Cable	/	10m Below 1GHz	C2310084DG	Jul. 26, 23
Coaxial RF Cable	/	10m Below 1GHz	C2310085DG	Jul. 26, 23
Test Software	ADT	ADT_Radiated_V8.7.07	N/A	N/A

NOTES: 1. The test was performed in 10m Chamber.

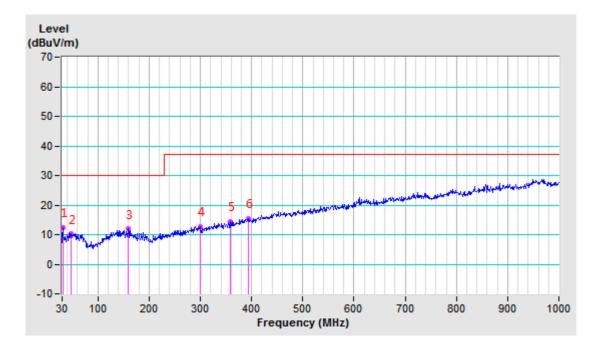
- 2. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
- 3. Negative sign (-) in the margin column signify levels below the limit.
- 4. Frequency range scanned: 30MHz to 1000MHz.
- 5. Only emissions significantly above equipment noise floor are reported.
- 6. Uncertainty: ±4.62 dB at a level of confidence of 95%.
- 7. The calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



2.2.2 TEST RESULTS

TEST MODE	Charging	FREQUENCY RANGE	30-1000 MHz
TEST VOLTAGE	DC 5V From USB Host Unit	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	26deg. C, 55% RH	TESTED BY: Jay	,

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M							
	Freq.	Correction	Raw	Emission	Limit	Margin	Antenna	Table
No.	(MHz)	Factor	Value	Level	(dBuV/m)	(dB)	Height	Angle
	(11112)	(dB/m)	(dBuV)	(dBuV/m)	(ubu v/m)	(UD)	(cm)	(Degree)
1	31.21	-22.07	34.47	12.40	30.00	-17.60	200	26
2	48.55	-20.99	31.21	10.22	30.00	-19.78	200	150
3	159.25	-19.48	31.39	11.91	30.00	-18.09	400	99
4	299.42	-18.33	31.16	12.83	37.00	-24.17	400	286
5	359.19	-16.83	31.28	14.45	37.00	-22.55	200	110
6	394.24	-15.74	31.15	15.41	37.00	-21.59	200	26

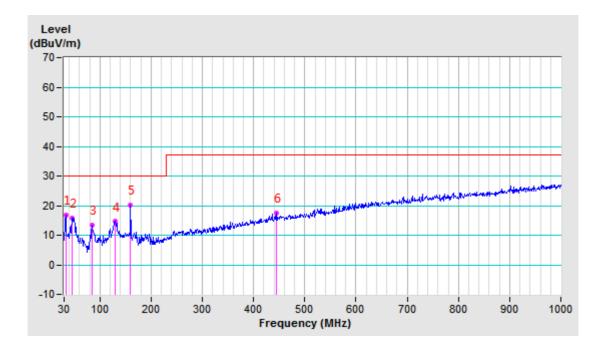


BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889 www.cps.bureauveritas.com



TEST MODE	Charging	FREQUENCY RANGE	30-1000 MHz
TEST VOLTAGE	DC 5V From USB Host Unit	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	26deg. C, 55% RH	TESTED BY: Jay	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 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	33.59	-21.68	38.39	16.71	30.00	-13.29	100	221
2	45.52	-20.62	36.42	15.80	30.00	-14.20	100	249
3	84.08	-24.96	38.44	13.48	30.00	-16.52	300	220
4	128.99	-20.89	35.54	14.65	30.00	-15.35	100	84
5	159.99	-19.47	39.79	20.32	30.00	-9.68	100	17
6	445.47	-13.89	31.32	17.43	37.00	-19.57	300	203



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



3 IMMUNITY TEST

3.1 GENERAL PERFORMANCE CRITERIA DESCRIPTION

CRITERION A	The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.
CRITERION B	The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however, No change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.
CRITERION C	Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.



3.2 ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)

3.2.1 TEST SPECIFICATION

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

3.2.2 TEST INSTRUMENTS

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.



3.2.3 TEST RESULTS

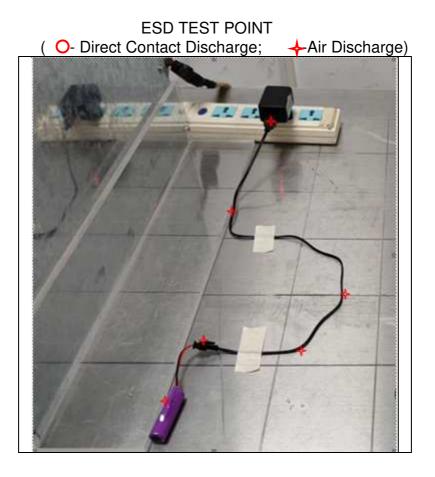
TEST MODE	Battery charging	TEST VOLTAGE	DC 5V From USB Host Unit
ENVIRONMENTAL CONDITIONS	21.2deg. C, 50.1% RH, 100.2kPa	TESTED BY: Zhuolin Peng	

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

Indirect Discharge Application							
Discharge Level (kV)							
4	+/-	HCP	А	N/A			
4	+/-	VCP	N/A	А			

NOTES: A: There was no change compared with initial operation during the 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



3.3 LECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST (EFT)

3.3.1 TEST SPECIFICATION

Basic Standard:	IEC 61000-4-4
Test Voltage:	Power Line : 1 kV
Polarity:	Positive & Negative
Impulse Frequency:	5 kHz
Impulse Waveshape :	5/50 ns
Burst Duration:	15 ms
Burst Period:	300 ms
Test Duration:	2 minutes

3.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EFT Module	TESEQ	NSG 3060 Mainframe	1404	Jan. 11, 24
Automated 3- Phase Coupling/ Decoupling Network	TESEQ	CDN 3063	2131	Jan. 11, 24
EFT Coupling Clamp	HAEFELY	IP4A	150407	Jan. 10, 24
Test Software	TESEQ	CDM 3061_0002.30	1361	N/A
Test Software	TESEQ	HVM 3060_0002.30	293	N/A

NOTES: 1. The test was performed in EMS Test Room 1.

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)069-0329(C) 3.3.3 TEST RESULTS

TEST MODE	Battery charging	TEST VOLTAGE	DC 5V From USB Host Unit
ENVIRONMENTAL CONDITIONS	21.0deg. C, 51.0% RH	TESTED BY: Cher	ng Zhong

Pulse Voltage	1.0	kV	0.5	kV		kV		kV
Pulse Polarity	+	—	+	—	+	—	+	_
L	А	Α	A	Α	/	/	/	/
N	А	Α	A	Α	/	/	/	/
L+ N	Α	Α	A	Α	/	/	/	/

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



3.4 SURGE IMMUNITY TEST

3.4.1 TEST SPECIFICATION

Basic Standard:	IEC 61000-4-5
Wave-Shape:	Combination Wave
	1.2/50 us Open Circuit Voltage
	8 /20 us Short Circuit Current
Test Voltage:	Power Line : 1kV
Surge Input/Output:	L-N
Generator Source	2 ohm between networks
Impedance:	
Polarity:	Positive/Negative
Phase Angle:	90°/270°
Pulse Repetition Rate:	1 time / 60 Sec.
Number of Tests:	5 positive and 5 negative at selected points

3.4.2 TEST INSTRUMENTS

Equipment	Manufacturer	lanufacturer Model No.		Next Cal.
Telecom Surge Module	TESEQ	NSG 3060 Mainframe	1404	Jan. 11, 24
Automated 3- Phase Coupling/ Decoupling Network	TESEQ	CDN 3063	2131	Jan. 11, 24
CDN	TESEQ	CDN HSS-2	34275	Jan. 11, 24
CDN	TESEQ	CDN 118	30741	Jan. 10, 24
Test Software	TESEQ	CDM 3061_0002.30	1361	N/A
Test Software	TESEQ	HVM 3060_0002.30	293	N/A

NOTES: 1. The test was performed in EMS 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



3.4.3 TEST RESULTS

TEST MODE	Battery charging	TEST VOLTAGE DC 5V From USB Host U		
ENVIRONMENTAL CONDITIONS	21.0deg. C, 51.0% RH	TESTED BY: Chen	g Zhong	

\Phase angle \ Test result \Voltage (kV) \ Test point\ Polarity		0°	90°	180°	270°		DC Power Port
1.0 L-N	+	/	Α	/	/	/	/
	_	/	/	/	А	/	/

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



3.5 IMMUNITY TO CONDUCTED DISTURBANCES INDUCED BY RF FIELDS (CS)

3.5.1 TEST SPECIFICATION

Basic Standard:	IEC 61000-4-6		
Frequency Range:	0.15 MHz - 80 MHz		
Field Strength:	3 V _{r.m.s.}		
Modulation:	1kHz Sine Wave, 80%, AM Modulation		
Frequency Step:	1 % of fundamental		
Coupled Cable:	Power Mains		
Coupling Device:	CDN-M2		

3.5.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Signal Generator	Rohde&Schwarz	SMB 100A	102382	Jan. 11, 24
CDN	Luthi	L-801M2/M3	2015	Jul. 27, 23
CDN	TESEQ	T200A	26944	Jan. 11, 24
CDN	TESEQ	T800	28623	Aug. 18, 23
CDN	FCC	FCC-801-T8-SRJ45	160168	Aug. 10, 23
CDN	TESEQ	CDN M532	37300	Jun. 01, 23
6dB 150Watt Attenuator	Bird	150-A-FFN-06	1507	Jul. 27, 23
Bulk Current Injection Probe	FCC	F-120-9A	160053	Jul. 27, 23
Power Amplifier	PRANA	DR 220	1512-1788	NA
Electromagnetic Injection	Luthi	EM101	35640	Aug. 12, 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	2764719	Apr. 15, 23
Test Software	Tonscend	TS+	3.0.0.1	N/A
Test Software	ADT	BVADT_CS_V7.6.2	N/A	N/A

NOTES: 1. The test was performed in CS test 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.



3.5.3 TEST RESULTS

TEST MODE	Battery charging	TEST VOLTAGE	DC 5V From USB Host Unit
ENVIRONMENTAL CONDITIONS	21.0deg. C, 51.0% RH	TESTED BY: Zhuolin	

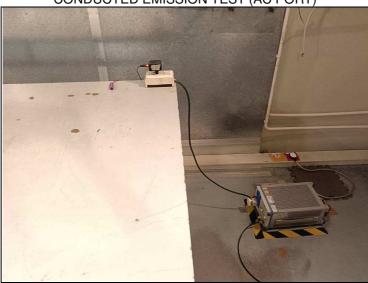
Voltage (V)	Test Frequency Note ^{#1} (MHz)	Tested Line	Injection Method.	Test Result	Remark
3	0.15 -80 MHz	AC Line	CDN-M2	А	Pass

Note#1: Tested Israel SII Frequencies 0.2,0.53,1,1.5,7.1,13.56,21,27.12,40.68,65,68 MHz

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



4 PHOTOGRAPHS OF THE TEST CONFIGURATION

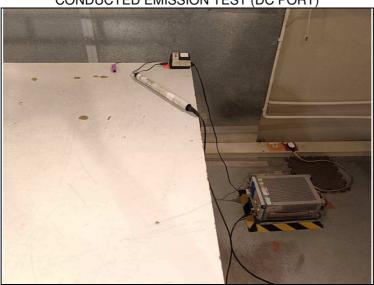


CONDUCTED EMISSION TEST (AC PORT)



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





CONDUCTED EMISSION TEST (DC PORT)

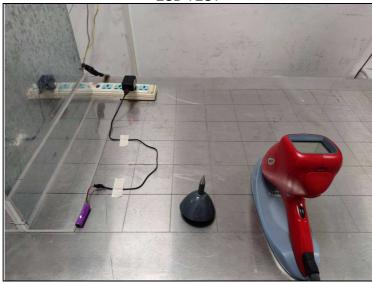


BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889 www.cps.bureauveritas.com







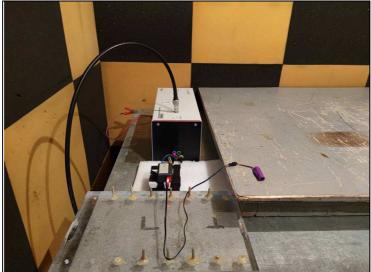


BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889 www.cps.bureauveritas.com









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



TEST REPORT No.: (5223)069-0329(C) 5 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----

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