

Page 1 of 19

FCC SDoC TEST REPORT

Shenzhen Dhongtai Electronic Technology Co., Ltd.

12 in 1 USB C docking station

Test Model: DHT-DK006

Additional Model No.: Please Refer to Page 7

Prepared for Address

Prepared by Address

Tel Fax Web Mail

Date of receipt of test sample Number of tested samples Sample No Date of Test Date of Report

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 - March 25, 2022
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- 220325012A
- March 25, 2022~ March 29, 2022
- : March 30, 2022







FCC SDoC TEST REPORT FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014

Report Reference No :	LCS220325012AE	
Date Of Issue :	March 30, 2022	
Testing Laboratory Name :	Shenzhen LCS Compliance Testin	ng Laboratory Ltd.
Address : Testing Location/ Procedure :	Room 101, 201, Building A and Room Industrial Park, Yabianxueziwei, Sha District, Shenzhen, Guangdong, Chin Full application of Harmonised stand Partial application of Harmonised stand Other standard testing method	m 301, Building C, Juji jing Street, Bao'an na dards ■ andards □
Applicant's Name :	Shenzhen Dhongtai Electronic Te	chnology Co., Ltd.
Address :	Hong Pengfei Industrial Park, Guan Town,Longhua District, Shenzhen, (gpin Road, Guanlan China
Test Specification		
Standard :	FCC 47 CFR Part 15 Subpart B C63.4 -2014	, Class B(SDoC), ANSI
Test Report Form No :	LCSEMC-1.0	
TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.		
Master TRF :	Dated 2011-03	
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Test Item Description :	12 in 1 USB C docking station	
Trade Mark : Test Model :	Bethlar DHT-DK006	
Ratings :	Please Refer to Page 7	
Result :	Positive	
Compiled by:	Supervised by:	Approved by:
Coco Song	Baron Wen	(Jains Piang
Coco Song/ File administrators	Baron Wen/Technique principal	Gavin Liang/ Manager





FCC -- TEST REPORT

Test Report No. : LCS220325012AE

March 30, 2022 Date of issue

Test Model	: DHT-DK006
EUT	: 12 in 1 USB C docking station
Applicant	: Shenzhen Dhongtai Electronic Technology Co., Ltd.
Address	: Hong Pengfei Industrial Park, Guangpin Road, Guanlan Town,Longhua District, Shenzhen, China
Telephone	:/
Fax	:/
Manufacturer	: Shenzhen Dhongtai Electronic Technology Co., Ltd.
Address	 Hong Pengfei Industrial Park, Guangpin Road, Guanlan Town,Longhua District, Shenzhen, China
Telephone	:/
Fax	に入動を加 Testing Lab
Factory Address	 Shenzhen Dhongtai Electronic Technology Co., Ltd. Hong Pengfei Industrial Park, Guangpin Road, Guanlan Town,Longhua District, Shenzhen, China
Telephone	:/
Fax	:/

Test Result according to the standards on page 6: **Positive**

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





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LCS Testing La

Revision History

Revision	Issue Date	Revisions Content	Revised By
000	March 30, 2022	Initial Issue	





E Internet

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1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

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

EMISSION				
Description of Test Item	Standard	Limits	Results	
Conducted disturbance at mains terminals	FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014	Class B	N/A	
Radiated disturbance	FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014	Class B	PASS	
TTHE Lab	Till maing Lab	Tille	ng Lab	

N/A is an abbreviation for Not Applicable.

Test mode:		
Mode 1	Working	Record







2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT	: 12 in 1 USB C docking station
Trade Mark	: Bethlar
Test Model	: DHT-DK006
Model Lists	DHT-DK003, DHT-K8IN1, DHT-K7IN1-3, DHT-K7IN1-10, DHT-K6IN1, DHT-S7, DHT-3IN1-S01, DHT-3IN1-S02, DHT-DK001, DHT-USB1in1-1, DHT-HUB2in1-1, DHT-HUB3in1-1, DHT-HUB3in1-2, DHT-HUB4in1-1, DHT-HUB4in1-2, DHT-HUB5in1-1, DHT-HUB5in1-2, DHT-HUB5in1-3, DHT-HUB6in1-1, DHT-HUB6in1-2, DHT-HUB6in1-3, DHT-HUB6in1-4, DHT-HUB7in1-1, DHT-HUB7in1-2, DHT-HUB7in1-3, DHT-HUB8in1-1, DHT-HUB8in1-2, DHT-HUB8in1-3, DHT-HUB8in1-5, DHT-HUB8in1-2, DHT-HUB11in1-1
Model Declaration	PCB board, structure and internal of these model(s) are
Power Supply	: DC 5V

2.2. Description of Support Device

Name	Manufacturers	M/N	S/N
PC	Lenovo	WB0202140H	WB05067151
立讯检测股份	Le II	和检测股份 contesting Lab	立动检测股份

2.3. Description of Test Facility

Site Description EMC Lab.

b. : NVLAP Accreditation Code is 600167-0. FCC Designation Number is CN5024. CAB identifier is CN0071. CNAS Registration Number is L4595.







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2.4. 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 LCS 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.

Test	Parameters	Expanded Uncertainty (U _{lab})	Expanded Uncertainty (U _{cispr})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	± 5.2 dB

2.5. Measurement Uncertainty

- (1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.
- (2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.





3. TEST RESULTS

3.1.Radiated Emission Measurement

3.1.1. Test Equipment

The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	E3	E3-EMC	/	N/A	N/A
2	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
3	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
4	EMI Test Receiver	R&S	ESR3	102311	2021-08-19	2022-08-18
5	Broadband Preamplifier	1	BP-01M18G	P190501	2021-06-21	2022-06-20

3.1.2. Block Diagram of Test Setup







Limits for Radiated Disturbance Below 1GHz				
FREQUENCY DISTANCE FIELD STRENGTHS LI				
MHz	Meters	μV/m	dB(µV)/m	
30 ~ 88	3	100	40	
88 ~ 216	3	150	43.5	
216 ~ 960	3	200	46	
960 ~ 1000	3	500	54	
Remark: (1) Emission I	evel (dB) μ V = 20 le	og Emission level	μV/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.				
Limits for Radiated Emission Above 1GHz				
Frequency Distance Peak Limit Average Limit				
(MHz)	(MHz) (Meters)		(dBµV/m)	
Above 1000 3		74	54	
***Note: The lower limit applies at the transition frequency.				

3.1.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.1.5. Operating Condition of EUT

3.5.1.Setup the EUT as shown in Section 3.2.3.5.2.Let the EUT work in test Mode 1 and measure it.

3.1.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission measurement.







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3.1.7. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
PR / \/R (Emission in restricted hand)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for
KB / VB (Emission in restricted band)	Average
RB / VB (Emission in non-restricted	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for
band)	Average

The frequency range from 30MHz to 1000MHz and above 1000MHz is checked.

3.1.8. Radiated Emission Noise Measurement Result

PASS.

The scanning waveforms please refer to the next page.





vironn nditior	nentai ns:		22.2℃, 5 3	3.1% RH				
st Volta	ade:		DC					
st Mod	del:		DHT-DK0	06				
st Mod	de:		Mode 1					
st Eng	lineer:		LiBruce					
<u>, Eng</u>	,		Vertical					
ı. tailad	roculte a	ura shawn h						
80	evel (dBuV/	m)						
60.0								
60.0							FCC F	ART 15B
40.0		2			5		FCCF	PART 15B
40.0 -	Julia	2	3	mÅ		NI	FCC F	ART 15B
40.0 - 20.0	o	50	100 ³	mil	200	Where where	FCC F	PART 15B
40.0 20.0	0 0	50	100	Frequency	2000 (MHz)	Murihad		PART 15B
40.0	0 Freq	50 Reading	3 100 CabLos	Frequency Antfac	200 (MHz) Measured	Limit	FCCF 500 Over	ART 15B
40.0 20.0	0 Freq MHz	2 2 50 Reading dBuV	100 CabLos dB	Frequency Antfac dB/m	200 (MHz) Measured dBuV/m	Limit dBuV/m	GOO Over dB	ART 15B
40.0 - 20.0 0 30	0 Freq MHz 37.15	2 2 50 Reading dBuV 18.83	100 CabLos dB 0.48	Frequency Antfac dB/m 11.17	200 (MHz) Measured dBuV/m 30.48	Limit dBuV/m 40.00	GOO Over dB -9.52	ART 15B
40.0 20.0 030	0 Freq MHz 37.15 61.56	2 2 50 Reading dBuV 18.83 22.81	3 100 CabLos dB 0.48 0.66	Frequency Antfac dB/m 11.17 12.12	200 (MHz) Measured dBuV/m 30.48 35.59	Limit 40.00 40.00	FCCF 0ver dB -9.52 -4.41	ART 15B
40.0 20.0 030	0 Freq MHz 37.15 61.56 109.03	2 2 50 Reading dBuV 18.83 22.81 13.82	3 100 CabLos dB 0.48 0.66 0.85	Frequency Antfac dB/m 11.17 12.12 11.33	200 (MHz) Measured dBuV/m 30.48 35.59 26.00	Limit 40.00 43.50	FCCF 000 0ver dB -9.52 -4.41 -17.50	ART 15B
40.0 20.0 0 30	0 Freq MHz 37.15 61.56 109.03 171.99	2 2 50 Reading dBuV 18.83 22.81 13.82 25.23	3 100 CabLos dB 0.48 0.66 0.85 1.11	Frequency Antfac dB/m 11.17 12.12 11.33 9.72	200 (MHz) Measured dBuV/m 30.48 35.59 26.00 36.06	Limit dBuV/m 40.00 43.50 43.50	FCCF 600 Over dB -9.52 -4.41 -17.50 -7.44	ART 15B 6 1000 Remark QP QP QP QP
40.0 20.0 030	0 Freq MHz 37.15 61.56 109.03 171.99 244.23	2 2 50 Reading dBuV 18.83 22.81 13.82 25.23 24.35	100 CabLos dB 0.48 0.66 0.85 1.11 1.26	Frequency Antfac dB/m 11.17 12.12 11.33 9.72 12.29	200 (MHz) Measured dBuV/m 30.48 35.59 26.00 36.06 37.90	Limit dBuV/m 40.00 43.50 43.50	FCCF FCCF FCCF 600 Over dB -9.52 -4.41 -17.50 -7.44 -8.10	ART 15B





viron	mental	:	22.2℃, 5 3	3.1% RH					
est Vo	ltage:		DC						
est Mo	del:		DHT-DK0	06					
est Mo	de:		Mode 1						
est En	aineer:		Li Bruce						
ol:	3		Horizonta						
etaileo	d results a	re shown b							
		A.			.an lA			. an IA	
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60.0 40.0 20.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 mm/	3 MM 100	Frequency	200 (MHz)	Andhu	FCC P	ART 15B	
60.0 40.0 20.0	1 .)	50 Reading	100 CabLos	Frequency	200 (MHz) Measured	Undhu Limit	FCC P 6 6 6 6 6 6 6 6 6 6 6 7 6 7 6 7 6 7	ART 15B	
60.0 40.0 20.0	30 Freq MHz	2 50 Reading dBuV	3 100 CabLos dB	Frequency Antfac dB/m	200 (MHz) Measured dBuV/m	Limit dBuV/m	FCC P 600 Over dB	ART 15B	
60.0 40.0 20.0 0	1 30 Freq MHz 37.15	2 50 Reading dBuV 14.20	100 CabLos dB 0.48	Frequency Antfac dB/m 11.17	200 (MHz) Measured dBuV/m 25.85	Limit dBuV/m	FCC P 6 6 6 6 6 6 6 7 6 7 7 7 7 7 7 7 7 7 7	ART 15B	
60.0 40.0 20.0 0	1 30 Freq MHz 37.15 61.56	2 50 Reading dBuV 14.20 19.40	3 100 CabLos dB 0.48 0.66	Frequency Antfac dB/m 11.17 12.12	200 (MHz) Measured dBuV/m 25.85 32.18	Limit 40.00 40.00	FCC P 6 6 6 6 6 6 6 7 6 7 8 7 7.82	ART 15B Manual M	
60.0 40.0 20.0 0	1 30 Freq MHz 37.15 61.56 103.81	2 50 Reading dBuV 14.20 19.40 13.41	3 100 CabLos dB 0.48 0.66 0.82	Frequency Antfac dB/m 11.17 12.12 10.97	200 (MHz) Measured dBuV/m 25.85 32.18 25.20	Limit dBuV/m 40.00 43.50	FCC P 6 6 6 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	ART 15B 1000 Remark	
60.0 40.0 20.0 0 1 2 3 4	1 30 Freq MHz 37.15 61.56 103.81 171.39 245 95	2 50 Reading dBuV 14.20 19.40 13.41 21.02 22.40	3 100 CabLos dB 0.48 0.66 0.82 1.11	Frequency Antfac dB/m 11.17 12.12 10.97 9.71 12.22	200 (MHz) Measured dBuV/m 25.85 32.18 25.20 31.84 26.20	Limit dBuV/m 40.00 43.50 43.50	FCC P 600 0ver dB -14.15 -7.82 -18.30 -11.66 -8.00	ART 15B Marthur 1000 Remark QP QP QP QP QP	
60.0 40.0 20.0 0 1 2 3 4 5 5	1 30 Freq MHz 37.15 61.56 103.81 171.39 245.95 216.69	2 50 Reading dBuV 14.20 19.40 13.41 21.02 23.40 14.22	100 CabLos dB 0.48 0.66 0.82 1.11 1.26 1.94	Frequency Antfac dB/m 11.17 12.12 10.97 9.71 12.32 19.04	200 (MHz) Measured dBuV/m 25.85 32.18 25.20 31.84 36.98 25.15	Limit dBuV/m 40.00 40.00 43.50 43.50 46.00	FCC P 600 Over dB -14.15 -7.82 -18.30 -11.66 -9.02	ART 15B Manual 1000 Remark QP QP QP QP QP QP QP	





4. PHOTOGRAPHS OF TEST SETUP



Photo of Radiated Measurement(30-1000MHz)





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5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT





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Fig. 3



Fig. 4





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Fig. 5



Fig. 6









Fig. 7



Fig. 8







Fig. 9



-THE END OF TEST REPORT-



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