	TEST REPOR	Т			
FCC ID :	2A4DZ-TSB9265				
Test Report No:	TCT221011E020				
Date of issue:	Oct. 20, 2022				
Testing laboratory::	SHENZHEN TONGCE TESTING	S LAB			
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China				
Applicant's name::	MITA EXPEDITIONS LLC				
Address:	3821 Bedford Avenue, Brooklyn,	New York 11229, Un	ited States		
Manufacturer's name :	MITA EXPEDITIONS LLC				
Address:	3821 Bedford Avenue Brooklyn NY 11229 United States Of America				
Standard(s):	FCC CFR Title 47 Part 15 Subpa	art C			
Product Name::	power bank		No.		
Trade Mark:	N/A				
Model/Type reference :	TSB9265, TSB9266, TSB9267	$\left(\mathcal{O}^{\prime}\right)$			
Rating(s):	Rechargeable Li-ion Battery DC	3.7V			
Date of receipt of test item	Oct. 11, 2022				
Date (s) of performance of test:	Oct. 11, 2022 ~ Oct. 20, 2022				
Tested by (+signature) :	Rleo LIU	Pres lu oncess			
Check by (+signature) :	Beryl ZHAO	Bay	TIN		
Approved by (+signature):	Tomsin	Tomshire			
General disclaimer:					

This report shall not be reproduced except in full, without the written approval of SHENZHEN TONGCE TESTING LAB. This document may be altered or revised by SHENZHEN TONGCE TESTING LAB personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

Table of Contents

1.	General Product Information	3
	1.1. EUT description	3
	1.2. Model(s) list	3
2.	Test Result Summary	4
3.	General Information	5
	3.1. Test environment and mode	5
	3.2. Description of Support Units	5
4.	Facilities and Accreditations	7
	4.1. Facilities	
	4.2. Location	7
	4.3. Measurement Uncertainty	7
5.	Test Results and Measurement Data	8
	5.1. Antenna requirement	8
	5.2. Conducted Emission	9
	5.3. Radiated Spurious Emission Measurement	13
Α	ppendix A: Photographs of Test Setup	

Appendix B: Photographs of EUT

TCT通测检测 TESTING CENTRE TECHNOLOGY

1. General Product Information

1.1. EUT description

Product Name:	power bank			
Model/Type reference:	TSB92658			
Sample Number	TCT221011E020-0101			
Operation Frequency:	114.12KHz ~ 187.26KHz			
Center frequency	148.17KHz			
Modulation Technology:	Load modulation	(\mathbf{c}^{*})		(\mathbf{c})
Output power:	15W			
Antenna Type:	Inductive loop coil Antenna			
Rating(s):	Rechargeable Li-ion Battery DC 3	3.7V	S.	

Report No.: TCT221011E020

1.2. Model(s) list

Tested with Image: Constraint of the models are identical in circuit and PCE 39265 can represent the remaining mode
he models are identical in circuit and PCE

TCT通测检测 TESTING CENTRE TECHNOLOGY 2. Test Result Summary

Report No.: TCT221011E020

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Spurious Emission	§15.209(a)(f)	PASS

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

Page 4 of 37	7
--------------	---

3. General Information

3.1. Test environment and mode

Operating Environment:			
Condition	Conducted Emission	Radiated Emission	
Temperature:	25.0 °C	25.0 °C	
Voltage:	DC 20V	DC 5V	
Humidity:	55 % RH	55 % RH	
Atmospheric Pressure:	1010 mbar	1010 mbar	
Test Mode:	·	· · · · · · · · · · · · · · · · · · ·	
	Mode1		
AC mode	Keep the EUT in max. wirele load(10W)	ess output power(5W)+full	
	Mode2	Mode3	
Internal Battery Mode	Keep the EUT in max. wireless output	Keep the EUT in max. wireless output power(5W)	

power(15W)+full load(10W)RemarkAll modes have been tested. The worst mode (Mode 2)
reported for Conducted emission test and Radiated
emission test

The sample was placed 0.8m for the measurement below 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case(Z axis) are shown in Test Results of the following pages.

Page 5 of 37

3.2. Description of Support Units

TCT 通测检测 TESTING CENTRE TECHNOLOGY

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.

Equipment	Model No.	Serial No.	Trade Name
5W/7.5W/10W/ 15W Load	C	r S	
Adapter	JD-050200	2012010907576735	JD

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious

Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

Page 6 of 37



4. Facilities and Accreditations

4.1. Facilities

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

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339

4.3. Measurement Uncertainty

The reported uncertainty of measurement y \pm U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB



5. Test Results and Measurement Data

5.1. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. E.U.T Antenna: The antenna is inductive loop coil antenna which permanently attached. Antenna 2 2 2 1 01 02 06 04 03 09 07 08 06 001 01 02 06 04 05 09 07 08 06 00201 02 06

5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207			
Test Method:	ANSI C63.10:2013			
Frequency Range:	150 kHz to 30 MHz			
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto			
	Frequency range	Limit (dBuV)	
	(MHz)	Quasi-peak	Áverage	
Limits:	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	Refere	nce Plane	1201	
Test Setup:	E.U.T Adap	EMI Receiver		
	E.U.T: Equipment Under Test LISN: Line Impedence Stabilization	n Network		
Test Mode:	AC Mode			
Test Mode: Test Procedure:	AC Mode 1. The E.U.T is conner impedance stabilization provides a 500hm/8 measuring equipme 2. The peripheral device power through a Lil coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interferen- emission, the relative the interface cables	cted to an adapte ation network 50uH coupling im nt. ces are also conne ISN that provides with 50ohm tern diagram of the line are checkence. In order to fir e positions of equ must be changed	(L.I.S.N.). This pedance for the ected to the main a 500hm/50ul hination. (Please test setup and ed for maximum nd the maximum ipment and all c	
	AC Mode 1. The E.U.T is conner impedance stabilization provides a 50ohm/8 measuring equipme 2. The peripheral device power through a Li coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interferen- emission, the relative	cted to an adapte ation network 50uH coupling im nt. ces are also conne ISN that provides with 50ohm tern diagram of the line are checkence. In order to fir e positions of equ must be changed	(L.I.S.N.). Thi pedance for the ected to the mail a 500hm/50ul hination. (Please test setup and ed for maximur nd the maximur ipment and all c	

Page 9 of 37



Page 10 of 37

http://www.tct-lab.com

5.2.2. Test Instruments

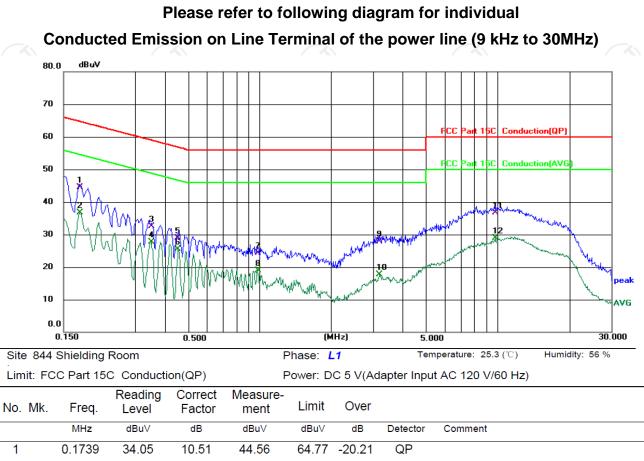
Conducted Emission Shielding Room Test Site (843)							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
EMI Test Receiver	R&S	ESCI3	100898	Jul. 03, 2023			
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Feb. 24, 2023			
Line-5	ТСТ	CE-05	/	Jul. 03, 2024			
EMI Test Software	Shurple Technology	EZ-EMC		1			

Tel: 86-755-27673339

Hotline: 400-6611-140

Fax: 86-755-27673332

5.2.3. Test data

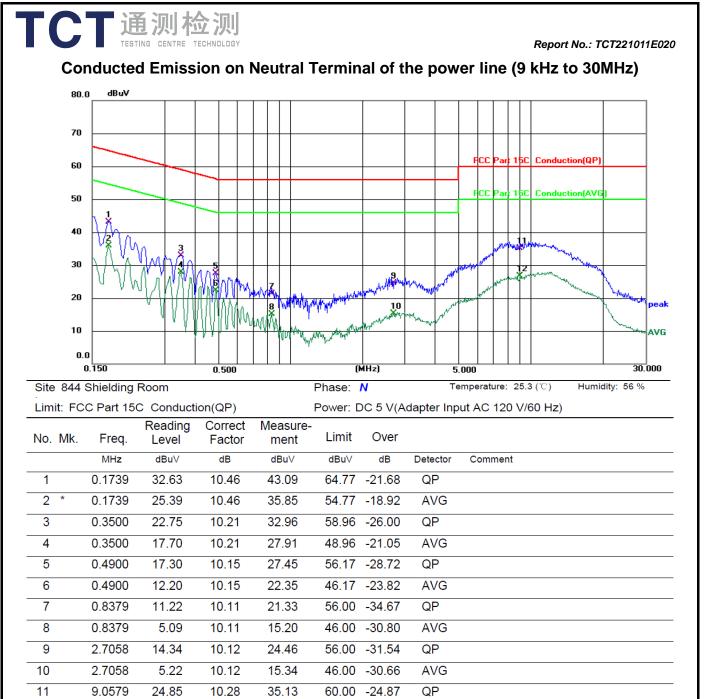


1	0.1739	34.05	10.51	44.56	64.77 -20.21	QP
2 *	0.1739	26.13	10.51	36.64	54.77 -18.13	AVG
3	0.3500	22.38	10.21	32.59	58.96 -26.37	QP
4	0.3500	17.42	10.21	27.63	48.96 -21.33	AVG
5	0.4540	18.69	10.17	28.86	56.80 -27.94	QP
6	0.4540	15.25	10.17	25.42	46.80 -21.38	AVG
7	0.9819	14.20	10.11	24.31	56.00 -31.69	QP
8	0.9819	8.88	10.11	18.99	46.00 -27.01	AVG
9	3.1939	17.95	10.03	27.98	56.00 -28.02	QP
10	3.1939	7.72	10.03	17.75	46.00 -28.25	AVG
11	9.7980	26.60	10.20	36.80	60.00 -23.20	QP
12	9.7980	18.79	10.20	28.99	50.00 -21.01	AVG

Note:

Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = LISN factor + Cable loss Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ – Limits $(dB\mu V)$ Q.P. =Quasi-Peak AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz



Note:

12

9.0579

16.40

Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = LISN factor + Cable loss Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB) Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ – Limits $(dB\mu V)$ Q.P. =Quasi-Peak AVG =average

10.28

26.68

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

50.00 -23.32

AVG

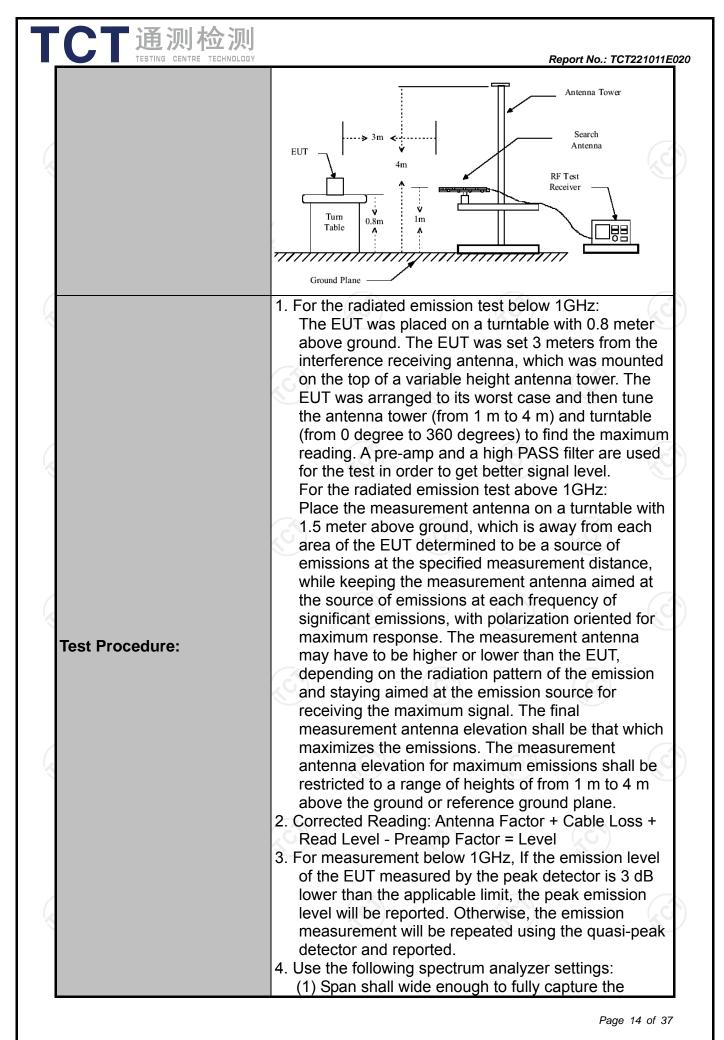


5.3. Radiated Spurious Emission Measurement

5.3.1. Test Specification

TCT通测检测 TESTING CENTRE TECHNOLOGY

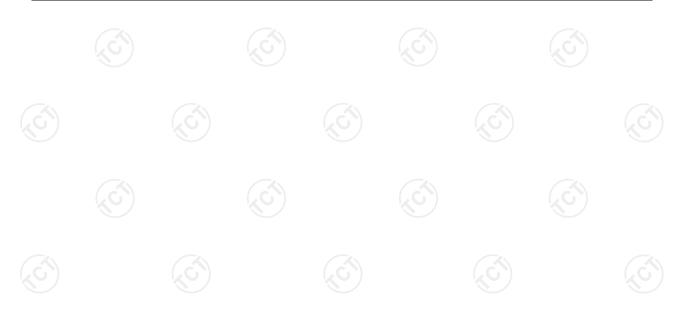
Test Requirement:	FCC Part15	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10	ANSI C63.10: 2013								
Frequency Range:	9 kHz to 25	9 kHz to 25 GHz								
Measurement Distance:	3 m	3 m								
Antenna Polarization:	Horizontal &	Vertical								
Operation mode:	Refer to item	n 3.1	(\mathbf{C}						
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz	Detector Quasi-peak Quasi-peak	RBW 200Hz 9kHz	VBW 1kHz 30kHz	Remark Quasi-peak Value Quasi-peak Value					
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value					
	Frequer		Field Str (microvolts	/meter)	Measurement Distance (meters)					
	0.009-0.4		2400/F(24000/F		300 30					
Limit:	1.705-3		30	<u>,</u> −/	30					
	30-88		100		3					
	88-210		150		3					
	216-96 Above 9		200 500		3					
Test setup:	0.Sm	Turn table Ground P			Amplifier					



	测检测		Repor	<u>t No.: TCT221011E0</u> 20
		(2) Set RBW=12 Sweep = auto max hold; For average mea duty cycle is no when duty cycle the minimum tra transmitter is on	ng measured; 0 kHz for f < 1 GHz; VB o; Detector function = pe asurement: VBW = 10 H less than 98 percent. VE is less than 98 percent nsmission duration over and is transmitting at its vel for the tested mode	eak; Trace = Iz, when $BW \ge 1/T$, where T is which the s maximum
Test mode:		Refer to section 3.1		
Test results:		PASS		
	NO NO	KO)	S	KO)

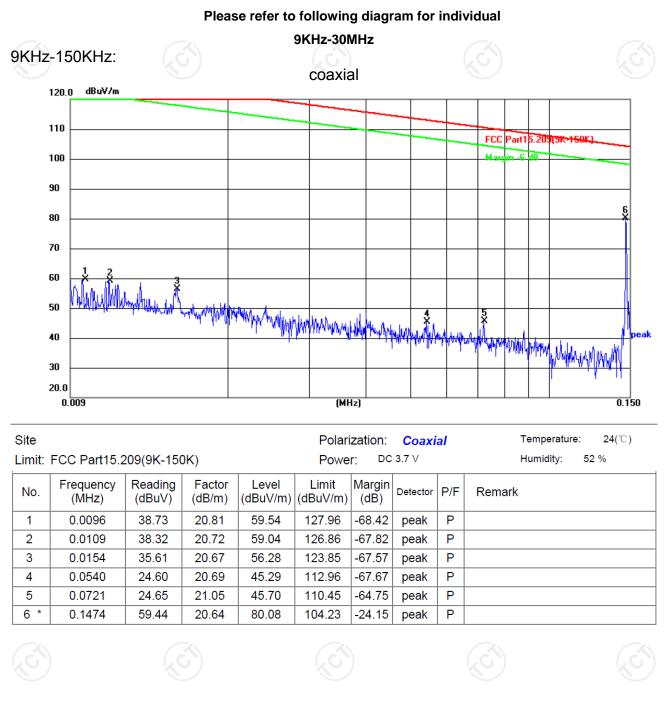
5.3.2. Test Instruments

Radiated Emission Test Site (966)											
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due							
EMI Test Receiver	R&S	ESIB7	100197	Jul. 03, 2023							
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 03, 2023							
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Feb. 24, 2023							
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Feb. 24, 2023							
Pre-amplifier	HP	8447D	2727A05017	Jul. 03, 2023							
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 11, 2024							
Broadband Antenna	Schwarzbeck	VULB9163	340	Jul. 05, 2024							
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jul. 05, 2024							
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023							
Antenna Mast	Keleto	RE-AM	1	1							
Coaxial cable	SKET	RC-18G-N-M		Feb. 24, 2024							
Coaxial cable	SKET	RC_40G-K-M	1	Feb. 24, 2024							
EMI Test Software	Shurple Technology	EZ-EMC		1							



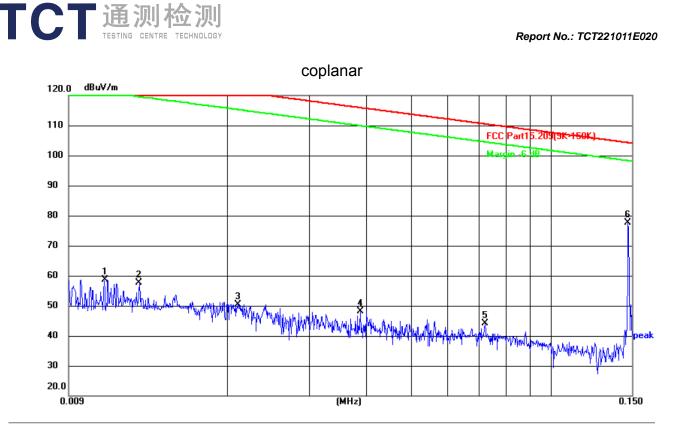
Page 16 of 37

5.3.3. Test Data





Report No.: TCT221011E020

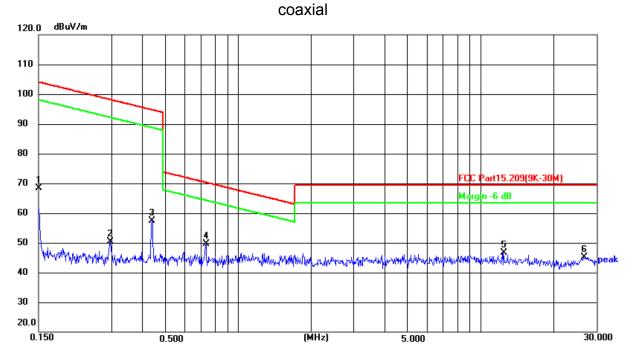


Site					Polar	ization:	Copla	nar		Temperature	e: 24(°C)
Limit:	FCC Part15.2	209(9K-150	DK)		Powe	er: DO	3.7 V			Humidity:	52 %
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark		
1	0.0108	37.82	20.72	58.54	126.94	-68.40	peak	Ρ			
2	0.0128	36.94	20.69	57.63	125.46	-67.83	peak	Ρ			
3	0.0210	29.90	20.58	50.48	121.16	-70.68	peak	Ρ			
4	0.0386	27.53	20.53	48.06	115.87	-67.81	peak	Ρ			
5	0.0719	23.15	21.05	44.20	110.47	-66.27	peak	Ρ			
6 *	0.1474	<u>56.94</u>	20.64	77.58	104.23	-26.65	peak	Ρ			



Page 18 of 37

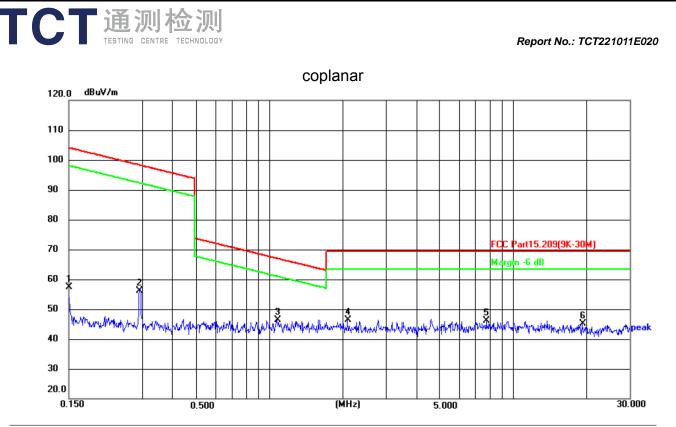
150KHz-30MHz:



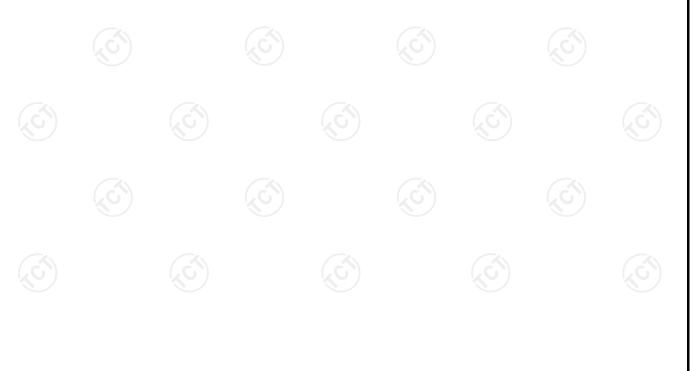
Site					Polari	zation:	Coaxia	al	Temperature: 24(°C)
Limit:	nit: FCC Part15.209(9K-30M)				Power	r: DC	3.7 ∨		Humidity: 52 %
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.1500	47.61	20.72	68.33	104.08	-35.75	peak	Ρ	
2	0.2955	29.39	21.07	50.46	98.19	-47.73	peak	Ρ	
3	0.4409	35.97	21.40	57.37	94.72	-37.35	peak	Ρ	
4 *	0.7352	27.57	22.08	49.65	70.29	-20.64	peak	Ρ	
5	12.4165	26.91	19.83	46.74	69.50	-22.76	peak	Ρ	
6	26.6286	25.44	19.78	45.22	69.50	-24.28	peak	Ρ	

Page 19 of 37

Report No.: TCT221011E020



Site					Polari	zation:	Copla	nar	Temperature: 24(℃)
Limit:	FCC Part15.2	09(9K-30N	(N		Powe	r: DC	3.7 ∨		Humidity: 52 %
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.1500	36.62	20.72	57.34	104.08	-46.74	peak	Ρ	
2	0.2932	35.00	21.05	56.05	98.26	-42.21	peak	Р	
3 *	1.0710	23.65	22.80	46.45	67.03	-20.58	peak	Р	
4	2.0879	21.36	24.91	46.27	69.50	-23.23	peak	Р	
5	7.7483	10.17	36.00	46.17	69.50	-23.33	peak	Р	
6	19.1220	25.61	19.55	45.16	69.50	-24.34	peak	Р	



Page 20 of 37

30MHz-1GHz dBu¥/m 80.0 70 60 FCC Part 15C RE_ 50 dB

3

Temperature: 24.6(C) Humidity: 55 % Site #2 3m Anechoic Chamber Polarization: Horizontal Limit: FCC Part 15C RE_3m Power: DC 5 V(Adapter Input AC 120 V/60 Hz) i-____

(MHz)

4

300.000

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	44.2752	7.20	13.92	21.12	40.00	-18.88	QP	Ρ	
2	122.4040	18.65	12.13	30.78	43.50	-12.72	QP	Ρ	
3	140.3421	18.70	13.25	31.95	43.50	-11.55	QP	Ρ	
4 *	206.3976	25.92	10.62	36.54	43.50	-6.96	QP	Ρ	
5	241.6763	14.91	12.72	27.63	46.00	-18.37	QP	Ρ	
6	374.6225	10.40	16.34	26.74	46.00	-19.26	QP	Ρ	

Horizontal:

40

30

20

10

0.0

30.000

Lowlandshillyou

an with a the way

60.000

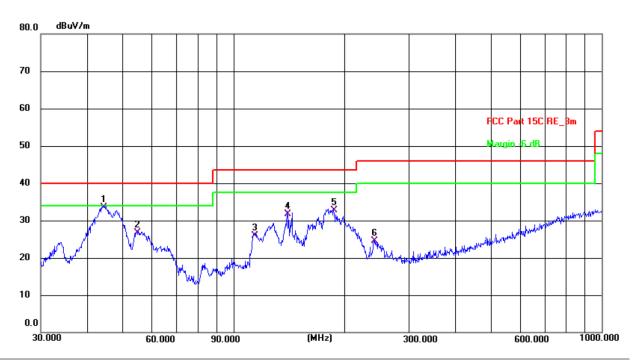
90.000

Report No.: TCT221011E020

600.000

1000.000

Vertical:



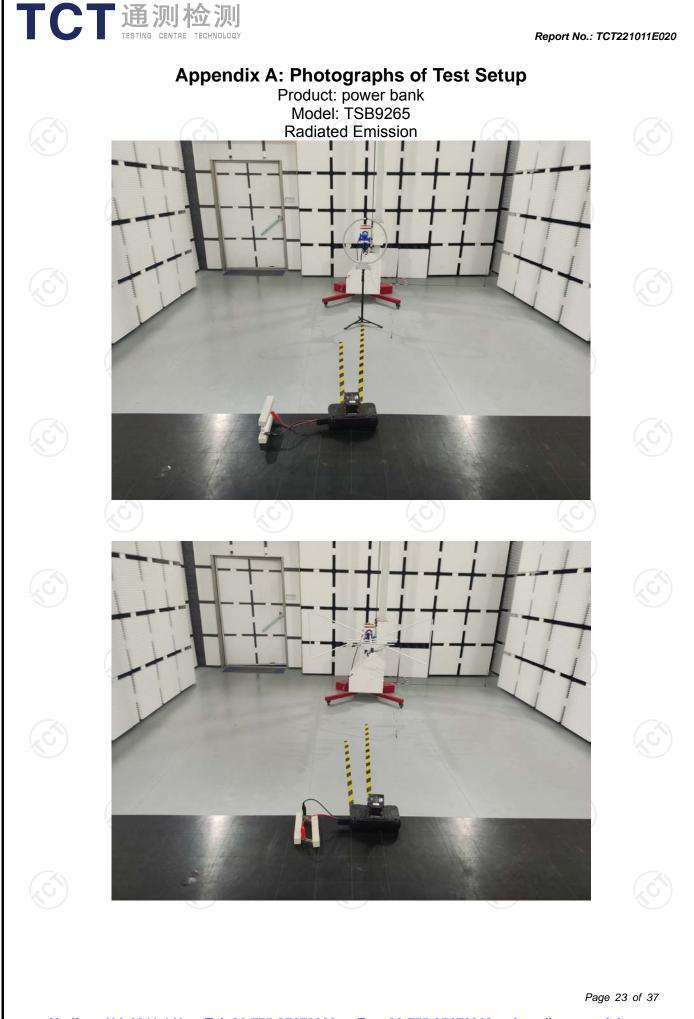
Temperature: 24.6(C) Site #2 3m Anechoic Chamber Humidity: 55 % Polarization: Vertical Limit: FCC Part 15C RE_3m Power: DC 5 V(Adapter Input AC 120 V/60 Hz) Frequency Reading Factor Level Limit Margin Detector P/F No. Remark (MHz) (dBuV) (dB/m)(dBuV/m) (dBuV/m) (dB) * 44,4308 19.59 13.92 33.51 40.00 -6.49 QP Ρ 1 2 54.6429 13.31 13.47 26.78 40.00 -13.22 QP Ρ 114.5146 11.55 25.96 -17.54 Ρ 14.41 43.50 QP 3 139.8508 Ρ 4 18.51 13.24 31.75 43.50 -11.75 QP 5 187.0958 21.74 10.92 32.66 43.50 -10.84 QP Ρ 6 240.8304 11.79 12.74 24.53 46.00 -21.47 QP Ρ

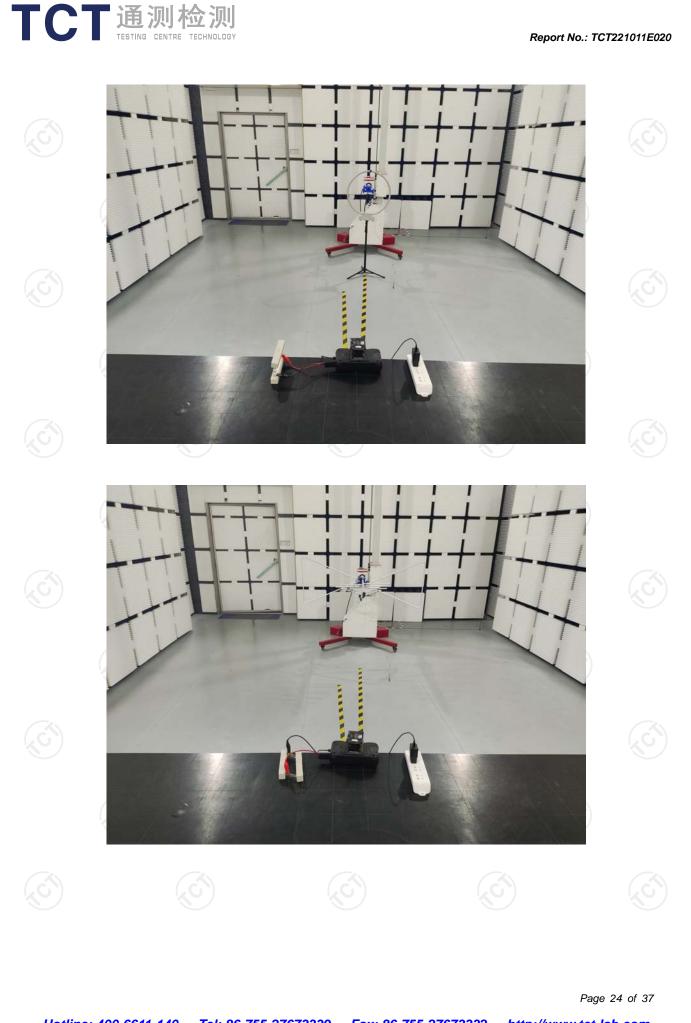
Note:

Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

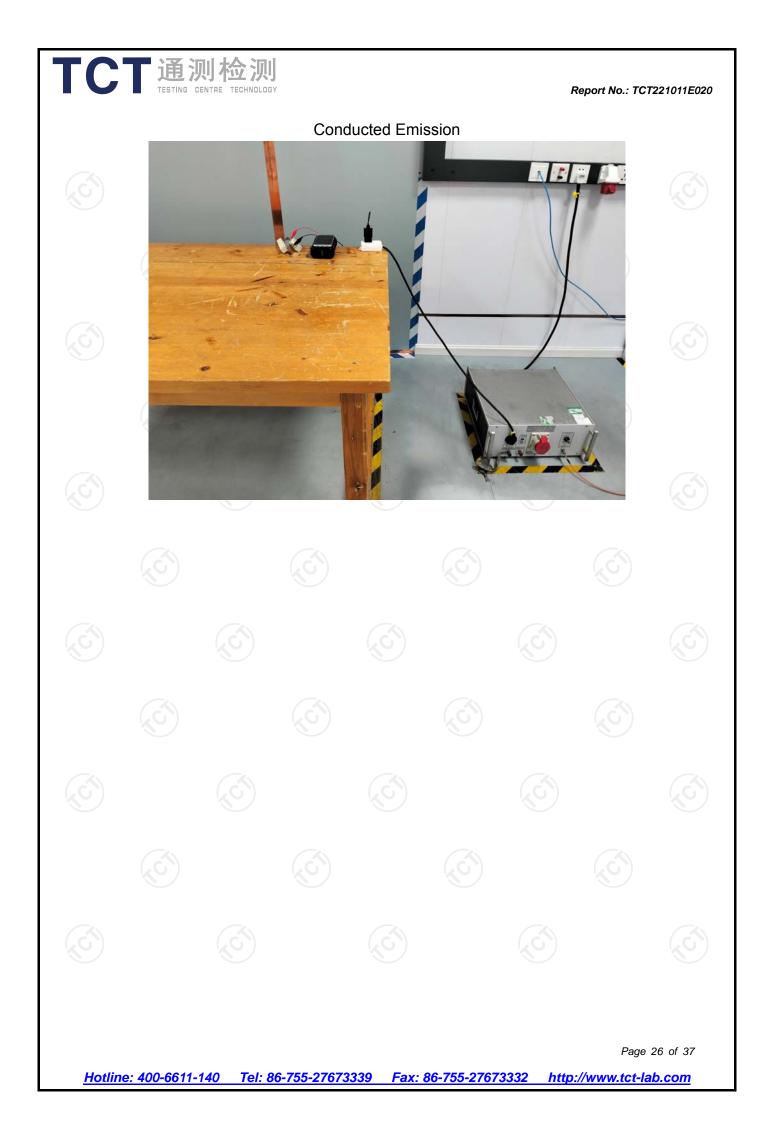


Report No.: TCT221011E020













Fax: 86-755-27673332

http://www.tct-lab.com

Hotline: 400-6611-140 Tel: 86-755-27673339

