TESTING CENTRE TE		RT				
FCC ID	2A7KXPB005-CW					
Test Report No:	TCT240415E015					
Date of issue:	Jun. 05, 2024					
Testing laboratory:	SHENZHEN TONGCE TESTING LAB					
Testing location/ address:	2101 & 2201, Zhenchang Fact Fuhai Subdistrict, Bao'an Distr 518103, People's Republic of (	ict, Shenzhen, Guango				
Applicant's name: :	CODi Acquisitions, LLC.					
Address:	3070 McCann Farm Drive, Uni 19060 United States	t 104, Garnet Valley, F	Pennsylvania			
Manufacturer's name :	Guangdong Foxsky Technolog	gy Co., Ltd	)			
Address:	Rm101-105, Bldg 10&11, LIAN Sanhe Village, Tonghu Town, Guangdong, China	•				
Standard(s):	FCC CFR Title 47 Part 15 Sub	part C				
Product Name:	Magnetic Wireless Charging P	ower Bank				
Trade Mark:	N/A					
Model/Type reference:	PB005-CW					
Rating(s):	Rechargeable Li-ion Battery D	C 3.85V				
Date of receipt of test item	Apr. 15, 2024	S	S			
Date (s) of performance of test:	Apr. 15, 2024 ~ Jun. 05, 2024		)			
Tested by (+signature) :	Ronaldo LUO	R-mald States				
Check by (+signature) :	Beryl ZHAO	Bayl	STING			

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# 

#### Report No.: TCT240415E015

## **1. General Product Information**

#### 1.1. EUT description

Product Name:	: Magnetic Wireless Charging Power Bank					
Model/Type reference:	PB005-CW		S			
Sample Number:	TCT240415E015-0101					
Operation Frequency:	108.87KHz ~ 168.81KHz					
Output power:	15W					
Modulation Technology:	Load modulation					
Antenna Type:	Inductive loop coil Antenna					
Rating(s):	Rechargeable Li-ion Battery DC 3.85V					

## 1.2. Model(s) list

None.



## TCT通测检测 2. Test Result Summary

Report No.: TCT240415E015

Requi	rement		CFR 47 Se	Result			
Antenna r	equirement		§15.203			PASS	N.
	ne Conducted ssion		§15.20	)7		PASS	
Spurious	Emission		§15.209	(a)(f)		PASS	
	tem meets the requi m does not meet the						
	se does not apply to Ilt judgment is decio			rd			
4. The lest fest	in judgment is decid	led by the lim	l or lest starida				

## 3. General Information

#### 3.1. Test environment and mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	24.6 °C	22.9 °C
Humidity:	51 % RH	52 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
TestMark		

#### Test Mode:

AC mode	Charging+ Wireless Output(5W)	e e
	Wireless Output(15W)	
Internal Pattory Made	Wireless Output(10W)	$(\mathcal{S})$
Internal Battery Mode	Wireless Output(5W)	
	Type-C Output+ Wireless Output(5W)	

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.

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3.2. 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.

Equipment	Model No.	Serial No.	Trade Name
Adapter	EP-TA200	R37M4PR7QD4SE3	SAMSUNG
Mobile Phone	SM-G9350	R28HA2ER3GT	SAMSUNG

#### Note:

Test Instruments.

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

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## 

## 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. 10 Antenna III uu ÔL 30 50 07 09 09

## 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	<u>(</u> )					
Receiver setup:	RBW=9 kHz, VBW=30	RBW=9 kHz, VBW=30 kHz, Sweep time=auto					
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit ( Quasi-peak 66 to 56* 56 60	56* 56 to 46* 46				
	Reference	(C)	50				
Test Setup:	E.U.T AC powe	r 80cm LISN					
Test Setup:	Test table/Insulation plane Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization N Test table height=0.8m	EMI Receiver	r _ AC power				
Test Mode:	Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization N Test table height=0.8m AC Mode	EMI Receiver					
•	Remarkc E.U.T. Equipment Under Test LISN: Line Impedence Stabilization N Test table height=0.8m	EMI Receiver etwork etwork etwork etwork etwork etwork etwork etwork etwork etwork foull coupling im nt. ces are also conner SN that provides e with 50ohm term diagram of the line are checked nce. In order to fin e positions of equi must be changed	er through a line (L.I.S.N.). Thi pedance for the ected to the mai s a 50ohm/50ul nination. (Pleas test setup and test setup and ed for maximum ind the maximum				



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Report No.: TCT240415E015

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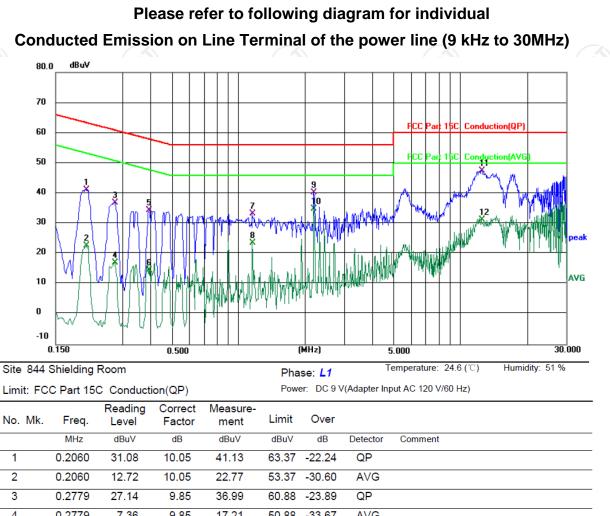
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#### 5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)											
Equipment	Manufacturer	Calibration Due									
EMI Test Receiver	R&S	ESCI3	100898	Jun. 29, 2024							
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Jan. 31, 2025							
Line-5	ТСТ	CE-05	/	Jul. 03, 2024							
EMI Test Software	Shurple Technology	EZ-EMC	1	1							

#### 5.2.3. Test data



3	0.2779	27.14	9.85	36.99	60.88 -23.89	QP
4	0.2779	7.36	9.85	17.21	50.88 -33.67	AVG
5	0.3940	25.05	9.44	34.49	57.98 -23.49	QP
6	0.3940	5.21	9.44	14.65	47.98 -33.33	AVG
7	1.1580	23.31	9.91	33.22	56.00 -22.78	QP
8	1.1580	13.83	9.91	23.74	46.00 -22.26	AVG
9	2.1860	30.15	10.05	40.20	56.00 -15.80	QP
10 *	2.1860	24.79	10.05	34.84	46.00 -11.16	AVG
11	12.5820	36.77	10.64	47.41	60.00 -12.59	QP
12	12.5820	20.65	10.64	31.29	50.00 -18.71	AVG
	4 5 6 7 8 9 10 * 11	4         0.2779           5         0.3940           6         0.3940           7         1.1580           8         1.1580           9         2.1860           10         *         2.1860           11         12.5820	4         0.2779         7.36           5         0.3940         25.05           6         0.3940         5.21           7         1.1580         23.31           8         1.1580         13.83           9         2.1860         30.15           10         *         2.1860         24.79           11         12.5820         36.77	4         0.2779         7.36         9.85           5         0.3940         25.05         9.44           6         0.3940         5.21         9.44           7         1.1580         23.31         9.91           8         1.1580         13.83         9.91           9         2.1860         30.15         10.05           10         *         2.1860         24.79         10.05           11         12.5820         36.77         10.64	4         0.2779         7.36         9.85         17.21           5         0.3940         25.05         9.44         34.49           6         0.3940         5.21         9.44         14.65           7         1.1580         23.31         9.91         33.22           8         1.1580         13.83         9.91         23.74           9         2.1860         30.15         10.05         40.20           10<*         2.1860         24.79         10.05         34.84           11         12.5820         36.77         10.64         47.41	4         0.2779         7.36         9.85         17.21         50.88         -33.67           5         0.3940         25.05         9.44         34.49         57.98         -23.49           6         0.3940         5.21         9.44         14.65         47.98         -33.33           7         1.1580         23.31         9.91         33.22         56.00         -22.78           8         1.1580         13.83         9.91         23.74         46.00         -22.26           9         2.1860         30.15         10.05         40.20         56.00         -15.80           10<*         2.1860         24.79         10.05         34.84         46.00         -11.16           11         12.5820         36.77         10.64         47.41         60.00         -12.59

#### Note:

Freq. = Emission frequency in MHz Reading level ( $dB\mu V$ ) = Receiver reading Corr. Factor (dB) = LISN factor + Cable loss

Measurement  $(dB\mu V) = Reading \ level \ (dB\mu V) + Corr. \ Factor \ (dB)$ 

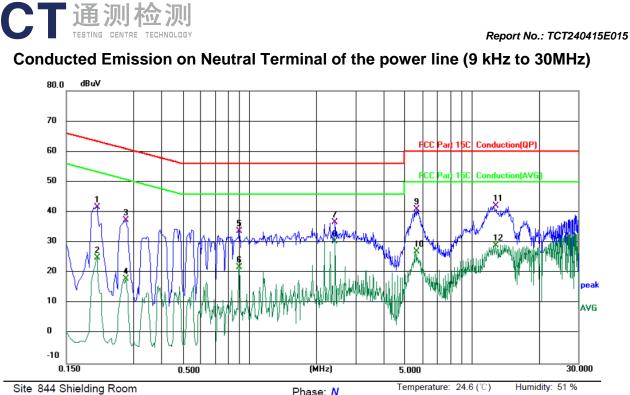
Limit  $(dB\mu V) = Limit$  stated in standard

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



one of		Room		Pha	ase: N				
Limit: F	CC Part 15	C Conduct	ion(QP)		Pow	er: DC 9	V(Adapter In	put AC 120 V/60 Hz)	
No. Mł	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	0.2059	31.67	10.03	41.70	63.37	-21.67	QP		
2	0.2059	15.03	10.03	25.06	53.37	-28.31	AVG		
3	0.2779	27.45	9.83	37.28	60.88	-23.60	QP		
4	0.2779	8.29	9.83	18.12	50.88	-32.76	AVG		
5	0.9020	24.91	8.95	33.86	56.00	-22.14	QP		
6	0.9020	12.90	8.95	21.85	46.00	-24.15	AVG		
7	2.4300	26.75	10.04	36.79	56.00	-19.21	QP		
8 *	2.4300	20.28	10.04	30.32	46.00	-15.68	AVG		
9	5.6420	30.70	10.37	41.07	60.00	-18.93	QP		
10	5.6420	16.63	10.37	27.00	50.00	-23.00	AVG		
11	12.7379	31.38	10.63	42.01	60.00	-17.99	QP		
12	12.7379	18.32	10.63	28.95	50.00	-21.05	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.

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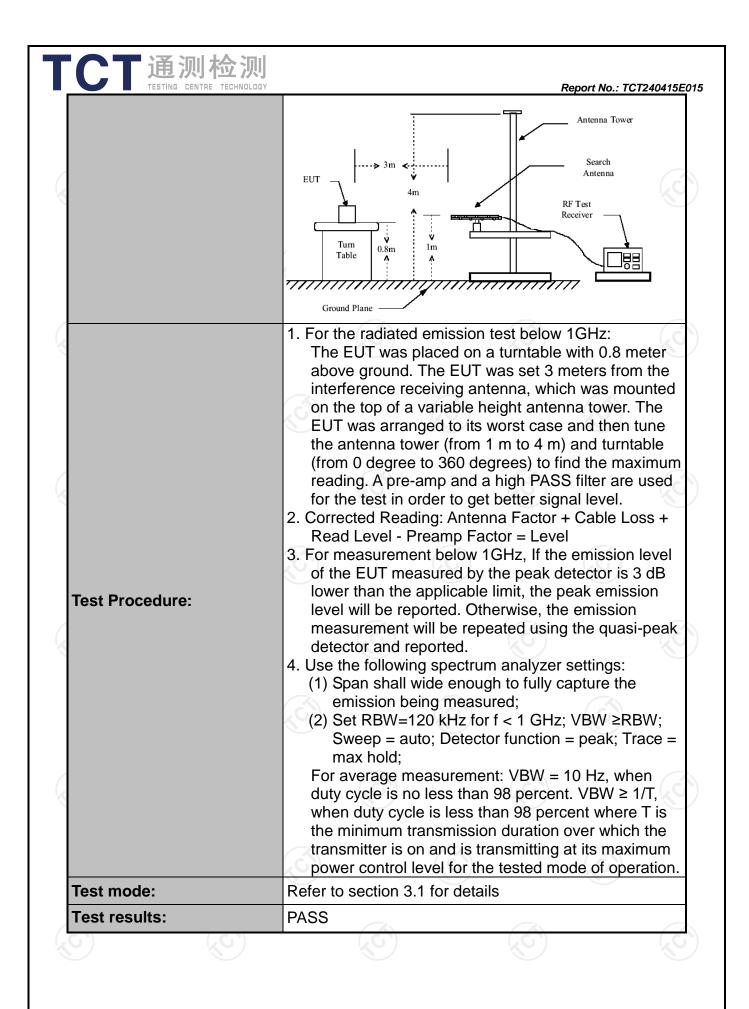


## 5.3. Radiated Spurious Emission Measurement

#### 5.3.1. Test Specification

TCT通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15	C Section	15.209			<u> </u>
Test Method:	ANSI C63.10	): 2013				
Frequency Range:	9 kHz to 25 (	GHz				
Measurement Distance:	3 m	N.	)		S S	
Antenna Polarization:	Horizontal &	Vertical				
Operation mode:	Refer to item	n 3.1	(			
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz	Detector Quasi-peak Quasi-peak	RBW 200Hz 9kHz	VBW 1kHz 30kHz	Remarl Quasi-peak Quasi-peak	Value Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak	Value
	Frequen		Field Str (microvolts 2400/F(	/meter)	Measurem Distance (me	
	0.009-0.2		2400/F( 24000/F(		300 30	0
Limit:	1.705-3		30		30	
	30-88		100		3	
	88-216		150		3	
	216-96 Above 9		200 500		3	
	( c	emissions stance = 3m	below 30	)MHz	Computer	
Test setup:	( c	stance = 3m		Pre -/	Computer Amplifier Receiver	
Test setup:	Di EUT 0.3m	stance = 3m		Pre -/	Amplifier	
Test setup:	Di EUT 0.3m	stance = 3m		Pre -/	Amplifier	
Test setup:	Di EUT 0.3m	stance = 3m		Pre -/	Amplifier	
Test setup:	Di EUT 0.3m	stance = 3m		Pre -/	Amplifier	3 of -



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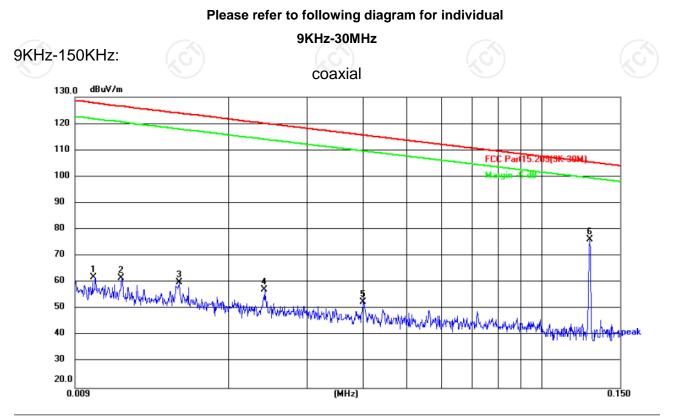
#### 5.3.2. Test Instruments

Radiated Emission Test Site (966)										
Name of Equipment	Manufacturer	Serial Number	Calibration Due							
EMI Test Receiver	R&S	ESIB7	100197	Jun. 29, 2024						
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 29, 2024						
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Jan. 31, 2025						
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Jan. 31, 2025						
Pre-amplifier	HP	8447D	2727A05017	Jun. 27, 2024						
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jul. 02, 2024						
Broadband Antenna	Schwarzbeck	VULB9163	340	Jul. 01, 2024						
Antenna Mast	Keleto	RE-AM		1 6						
Coaxial cable	SKET	RC-18G-N-M		Jan. 31, 2025						
Coaxial cable	SKET	RC_40G-K-M	/	Jan. 31, 2025						
EMI Test Software	Shurple Technology	EZ-EMC		S)						

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#### 5.3.3. Test Data

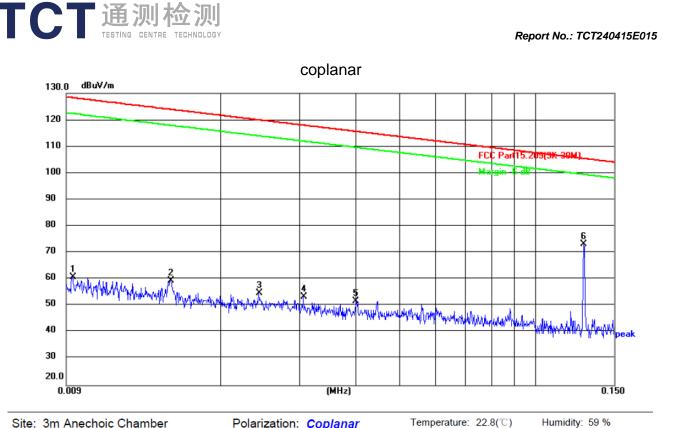


Report No.: TCT240415E015

Site: 3m Anechoic Chamber Polarization: Coaxial Temperature: 22.8(°C) Humidity: 59 %

Limit:	FCC Part15.2	209(9K-30N	(N		Power:Supply power by internal battery					
No.	Frequency (MHz)	Reading (dBu∀)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark	
1	0.0100	41.50	20.33	61.83	127.60	-65.77	peak	Р		
2	0.0114	41.27	20.32	61.59	126.47	-64.88	peak	Ρ		
3	0.0154	39.63	20.32	59.95	123.85	-63.90	peak	Ρ		
4	0.0239	37.01	20.28	57.29	120.04	-62.75	peak	Ρ		
5	0.0400	32.42	20.29	52.71	115.56	-62.85	peak	Ρ		
6 *	0.1287	55.87	20.40	76.27	105.41	-29.14	peak	Ρ		

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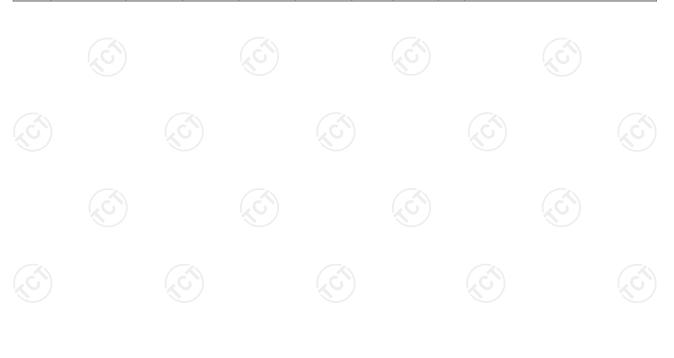


Site: 3m Anechoic Chamber Limit: FCC Part15.209(9K-30M)

Temperature: 22.8(°C) Polarization: Coplanar

Power: Supply power by internal battery

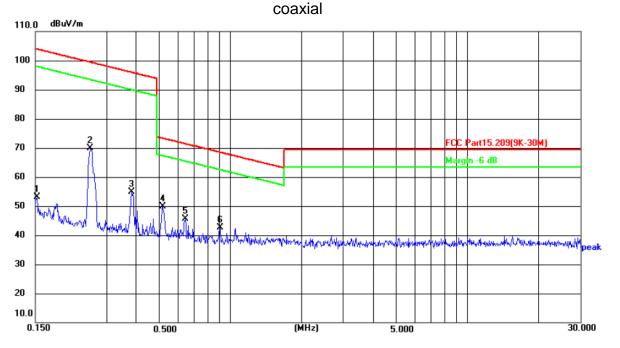
		·	1						-
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.0092	40.79	20.18	60.97	128.33	-67.36	peak	Р	
2	0.0153	39.14	20.32	59.46	123.91	-64.45	peak	Р	
3	0.0241	34.48	20.28	54.76	119.96	-65.20	peak	P	
4	0.0304	33.10	20.27	53.37	117.95	-64.58	peak	Р	
5	0.0400	31.39	20.29	51.68	115.56	-63.88	peak	Ρ	
6 *	0.1284	52.77	20.40	73.17	105.43	-32.26	peak	Р	



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#### 150KHz-30MHz:



Site: 3m Anechoic Chamber

Limit: FCC Part15.209(9K-30M)

Power:Supply power by internal battery

Temperature: 22.8(°C)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.1527	32.90	20.12	53.02	103.93	-50.91	peak	Ρ	
2	0.2564	49.52	20.30	69.82	99.43	-29.61	peak	Ρ	
3	0.3837	34.29	20.50	54.79	95.92	-41.13	peak	Ρ	
4 *	0.5180	29.07	20.76	49.83	73.32	-23.49	peak	Ρ	
5	0.6453	24.57	20.99	45.56	71.42	-25.86	peak	Ρ	
6	0.9049	21.15	21.44	42.59	68.49	-25.90	peak	Ρ	

Polarization: Coaxial



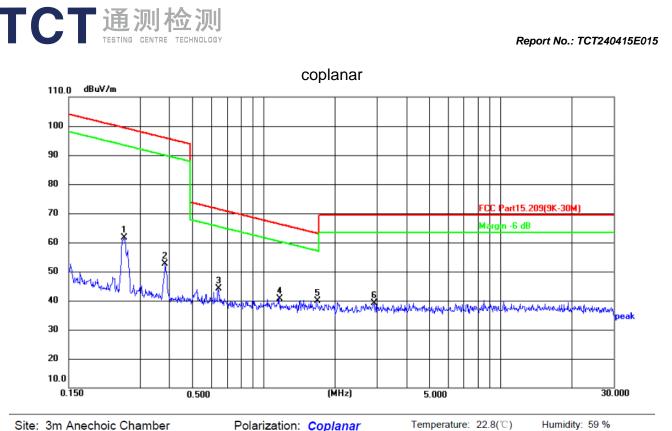




Report No.: TCT240415E015

Humidity: 59 %





Site: 3m Anechoic Chamber

Limit: FCC Part15.209(9K-30M)

Polarization: Coplanar Temperature: 22.8(°C)

Power: Supply power by internal battery

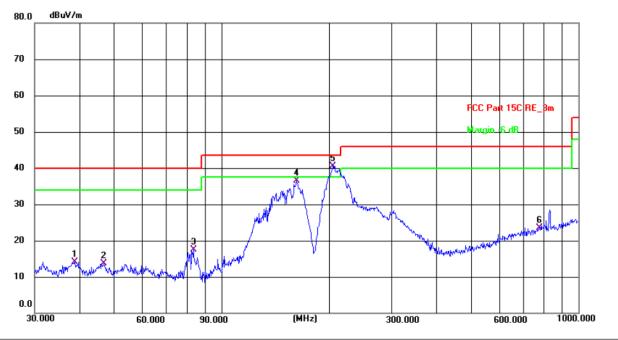
		<b>`</b>	/		·····,				
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.2580	41.35	20.30	61.65	99.37	-37.72	peak	Ρ	
2	0.3840	32.07	20.50	52.57	95.92	-43.35	peak	Р	
3	0.6422	23.08	20.97	44.05	71.46	-27.41	peak	Р	
4	1.1601	18.78	21.94	40.72	66.34	-25.62	peak	Р	
5 *	1.6775	16.79	22.98	39.77	63.14	-23.37	peak	Ρ	
6	2.9151	13.71	25.47	39.18	69.50	-30.32	peak	Ρ	



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30MHz-1GHz

Horizontal:



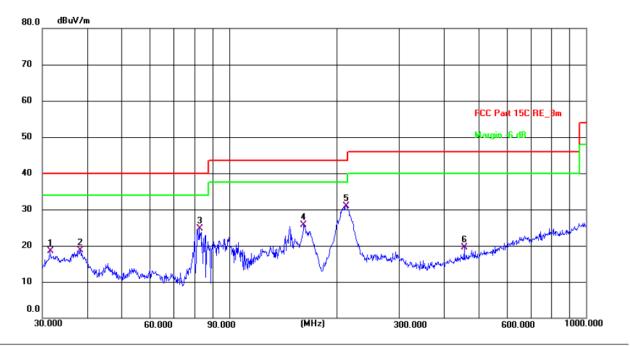
#### Site 3m Anechoic Chamber Polarization: Horizontal Temperature: 22.9(C) Humidity: 52 %

Limit: I	FCC Part 15C F	RE_3m		Power: Supply power by internal battery					
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	38.8877	32.49	-18.33	14.16	40.00	-25.84	QP	Р	
2	46.8301	32.09	-18.36	13.73	40.00	-26.27	QP	Ρ	
3	83.5220	39.91	-22.35	17.56	40.00	-22.44	QP	Р	
4	162.6105	53.38	-16.93	36.45	43.50	-7.05	QP	Р	
5 *	205.6750	61.11	-20.61	40.50	43.50	-3.00	QP	Ρ	
6	776.8777	29.99	-6.45	23.54	46.00	-22.46	QP	Ρ	



#### Vertical:

TC



Site 3m Anechoic Chamber Polarization: Vertical Temperature: 22.9(C) Humidity: 52 %

Limit: F	FCC Part 15C R	E_3m		Power: Supply power by internal battery					
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	31.5093	37.91	-19.40	18.51	40.00	-21.49	QP	Р	
2	38.3462	37.18	-18.46	18.72	40.00	-21.28	QP	Р	
3	82.6481	47.05	-22.31	24.74	40.00	-15.26	QP	Р	
4	162.0413	42.59	-16.94	25.65	43.50	-17.85	QP	Р	
5 *	212.2694	51.32	-20.33	30.99	43.50	-12.51	QP	Р	
6	455.9057	32.59	-13.18	19.41	46.00	-26.59	QP	Р	

#### Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier 2. Both AC mode and Internal Battery Mode have been tested, only the worse mode (Type-C Output+ Wireless Output(5W)) reported.



Report No.: TCT240415E015



## 5.4. 20dB Occupy Bandwidth

#### 5.4.1. Test Specification

Test Requirement:	FCC Part15 C Se	ection 15.247 (a)(1						
Test Method:	KDB 558074 D01	v05r02						
Limit:	N/A							
Test Setup:	Spectrum Analyzer		UT					
Test Mode:	Transmitting mode with modulation							
Test Procedure:	analyzer by R was compens- measurement 2. Set to the maxi EUT transmit 3. Use the followi Bandwidth me Span = approx bandwidth, ce 1%≤RBW≤5% Sweep = auto hold.	F cable and attent ated to the results imum power settin continuously. ng spectrum analy easurement. ximately 2 to 5 tim ntered on a hoppin of the 20 dB band	g and enable the vzer settings for 20dB es the 20 dB ng channel; dwidth; VBW≥3RBW; = peak; Trace = max					
Test Result:	PASS							

#### 5.4.2. Test Instruments

	Name	Manufacturer	Model No.	Serial Number	<b>Calibration Due</b>
(	Spectrum Analyzer	R&S	FSU	200054	Jun. 27, 2024



