

Test report no.: <i>Prüfbericht-Nr.:</i>	CN2413E3 001	Order No.: <i>Auftragsnr.:</i>	168487318	Page 1 of 17 <i>Seite 1 von 17</i>
Client reference no.: <i>Kunden-Referenz-Nr.:</i>	N/A	Order date: <i>Auftragsdatum:</i>	2024-07-04	
Client: <i>Auftraggeber:</i>	BCS Automotive Interface Solutions (Suzhou) Co., Ltd. No. 2052, Taidong Road, Caohu Street, Xiangcheng Economic Development District, Suzhou, Jiangsu, P.R. China			
Test item: <i>Prüfgegenstand:</i>	WPC			
Identification / Type no.: <i>Bezeichnung / Typ-Nr.:</i>	524B/525A WPC			
Order content: <i>Auftrags-Inhalt:</i>	Test Report			
Test specification <i>Prüfgrundlage:</i>	CFR47 FCC Part 15: Subpart C Section 15.225 RSS-210 Issue 10			
Date of sample receipt: <i>Wareneingangsdatum:</i>	2024-07-05	Please refer to Photo Document		
Test sample no: <i>Prüfmuster-Nr.:</i>	A003750411-001~005 A003752463-001~005			
Testing period: <i>Prüfzeitraum:</i>	2024-07-06 to 2024-08-09			
Place of testing: <i>Ort der Prüfung:</i>	Refer to section 2.1			
Testing laboratory: <i>Prüflaboratorium:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Test result*: <i>Prüfergebnis*:</i>	Pass			
tested by: <i>geprüft von:</i>			authorized by: <i>genehmigt von:</i>	
Date: 2024-10-09 <i>Datum:</i>	Signed by: Bell Hu		Issue date: 2024-10-09 <i>Ausstellungsdatum:</i>	Signed by: Jonathan Li
Position / Stellung:	Expert/Sachverständige(r)		Position / Stellung:	Expert/Sachverständige(r)
Other: <i>Sonstiges:</i>	FCC ID: 2AXPS524B525AWPC IC: 26574-524B525AWPC PMN: WPC HVIN: 524B/525A WPC This report is for NFC only.			
Condition of the test item at delivery: <i>Zustand des Prüfgegenstandes bei Anlieferung:</i>	Test item complete and undamaged Prüfmuster vollständig und unbeschädigt			
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark. <i>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</i>				

v05

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Remarks
Anmerkungen

- | | |
|----------|--|
| 1 | <p>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</p> <p><i>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</i></p> <p><i>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i></p> |
| 2 | <p>As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged.</p> <p><i>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</i></p> |
| 3 | <p>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</p> <p><i>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</i></p> |
| 4 | <p>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</p> <p><i>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</i></p> |

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 20dB AND 99% BANDWIDTH

RESULT: Pass

5.1.3 FREQUENCY STABILITY

RESULT: Pass

5.1.4 RADIATED SPURIOUS EMISSION (IN-BAND & OUT-BAND EMISSIONS)

RESULT: Pass

5.1.5 CONDUCTED EMISSION ON AC MAINS

RESULT: N/A

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of NFC.

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

Location: Shenzhen Microtest Co., Ltd.

Address: 101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
 CNAS Registration No.: CNAS L5868
 FCC Registration No.: 448573

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2024-03-20	2025-03-19
ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2024-03-21	2025-03-20
PXA Signal Analyzer	Agilent	N9030A	MY51350296	2024-03-21	2025-03-20
Synthesized Sweeper	Agilent	83752A	3610A01957	2024-03-21	2025-03-20
MXA Signal Analyzer	Agilent	N9020A	MY50143483	2024-03-21	2025-03-20
RF Control Unit	Tonscend	JS0806-1	19D8060152	2024-03-21	2025-03-20
Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2024-03-21	2025-03-20
ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2024-03-20	2025-03-19
DC Power Supply	Agilent	E3632A	MY40027695	2024-03-21	2025-03-20
EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03-20	2025-03-19
Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2025-03-22
Amplifier	Hewlett-Packard	8447F	3113A06184	2024-03-20	2025-03-19
EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03-20	2025-03-19
TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10
Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2025-03-22
Amplifier	Hewlett-Packard	8447F	3113A06184	2024-03-20	2025-03-19

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Measurement	Uncertainty
Occupied channel bandwidth	$\pm 3 \%$
Radiated spurious emissions (9kHz~30MHz)	$\pm 4.3\text{dB}$
Radiated spurious emissions (30MHz~1GHz)	$\pm 4.7\text{dB}$
Temperature	$\pm 1 \text{ }^{\circ}\text{C}$
Humidity	$\pm 5 \%$

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

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

3 General Product Information

3.1 Product Function and Intended Use

The Product is wireless charger with NFC function, vehicle use.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Description
Kind of Equipment:	WPC
Type Designation:	524B/525A WPC
Operating Voltage:	9~16V DC
Testing Voltage:	DC 12V (Rated)
Temperature Range:	-40°C ~85°C
FCC ID:	2AXPS524B525AWPC
IC:	26574-524B525AWPC
HVIN:	524B/525A WPC
PMN:	WPC
Technical Specification of WPC	
Frequency Range:	111-148kHz
Operating frequency	127.77KHz
Type of Modulation:	FSK
Antenna Type	Induction coil
Wireless output	Wireless 5W/7.5W/10W/15W
Technical Specification of NFC	
Frequency Range:	13.553-13.567MHz
Operating frequency	13.56MHz
Type of Modulation:	ASK
Antenna Type	Induction coil

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, NFC transmitting mode
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|------------------------------|-------------------------|
| - Application Form | - Operation Description |
| - ID Label and Location Info | - Block Diagram |
| - Schematics | - PCB Layout |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model 524B/525A WPC in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Smart Phone	/	Huawei	/
DC power source	RNX-305D	SHENZHEN ZHAOXIN ELECTRONIC INSTRUMENT EQUIPMENT CO., LTD..	

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

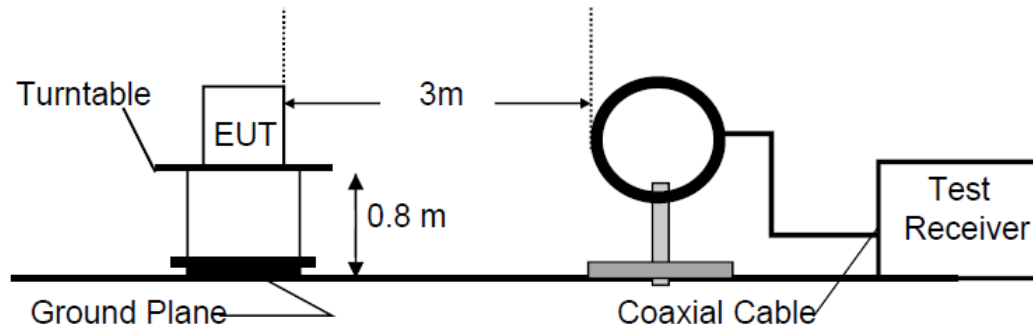
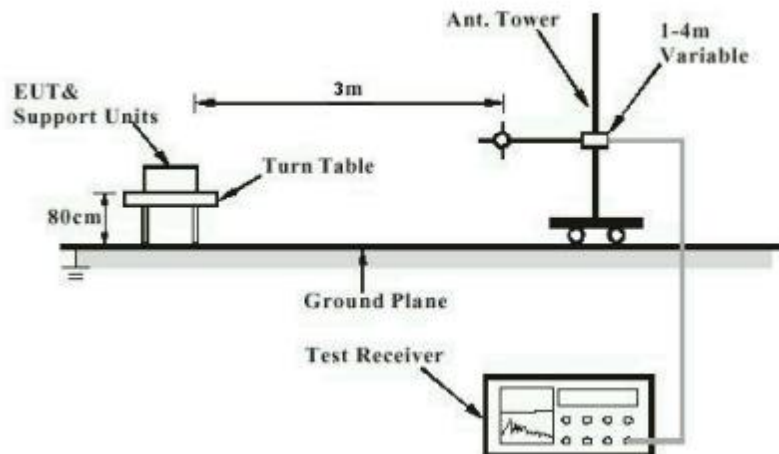


Diagram of Measurement Configuration for Radiation Test (30MHz to 1GHz)



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.203
RSS-Gen Clause 6.8

According to the manufacturer declared, the EUT has a Coil Antenna, the antenna connector is designed with permanent attachment and no consideration of replacement.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 20dB and 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.215 (c)
	: RSS-Gen Clause 6.7
Basic standard	: ANSI C63.10: 2013
Limits	: Within assigned band
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-07-17 to 2024-07-30
Input voltage	: DC 12V
Operation mode	: A
Ambient temperature	: 25.6 °C
Relative humidity	: 51.8 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.3 Frequency Stability

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.225 (e)
	: RSS-210 Issue 10, B(6)(b)
Basic standard	: ANSI C63.10: 2013
Limits	: $\pm 0.01\%$ of Operating Frequency (1.356 kHz)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-07-17 to 2024-07-30
Input voltage	: DC 12V
Operation mode	: A
Ambient temperature	: 26 °C
Relative humidity	: 56 %
Atmospheric pressure	: 960 hPa

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: **CN2413E3 001**
Test Report No.:Seite 15 von 17
Page 15 of 17**5.1.4 Radiated Spurious Emission (In-Band & Out-Band Emissions)****RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.225 (a)(b)(c)(d)
FCC Part 15.209 & 15.205
RSS-210 Issue 10, B(6)(a)

Basic standard : ANSI C63.10: 2013

Limits : Refer to FCC Part 15.209(a)
RSS-Gen Section 8.9 & 8.10

Kind of test site : 3m Semi-anechoic Chamber

Test Setup

Date of testing : 2024-07-17 to 2024-07-30

Input voltage : DC 12V

Operation mode : A

Ambient temperature : Refer to test result

Relative humidity : Refer to test result

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

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5.1.5 Conducted Emission on AC Mains

RESULT:

N/A

Test Specification

Test standard	: FCC Part 15.207(a)
Basic standard	: ANSI C63.10: 2013
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a)
Kind of test site	: Shielded Room

DC powered only, test is not required.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

7 List of Tables

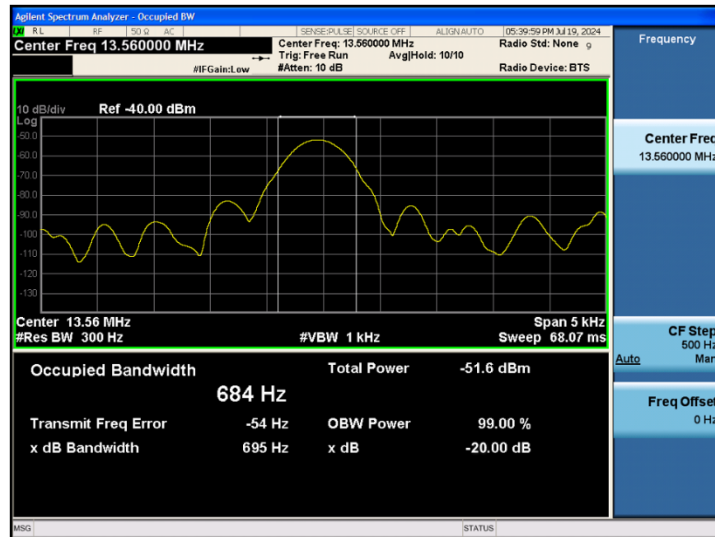
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Appendix A: Test Results of NFC

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Fundamental	4
9KHz – 30MHz	5
30MHz - 1GHz	7

Appendix A.1: Test Results of 20dB Bandwidth&99% Bandwidth

Test Frequency (MHz)	20dB Bandwidth (KHz)	99% Bandwidth (KHz)	Limit (MHz)	Result
13.56	0.695	0.684	13.553-13.567	Pass



Appendix A.2: Test Results of Frequency Tolerance

Test Frequency (MHz)	Test Conditions		Test Results (KHz)	Deviation (KHz)	Limit (KHz)	Result
	Temp(°C)	Volt(V DC)				
13.56	-20	12	13560.162	0.162	±0.01% (1.356 KHz)	Pass
	-10	12	13559.861	0.139		Pass
	0	12	13559.879	0.121		Pass
	10	12	13559.819	0.181		Pass
	20	12	13560.224	0.224		Pass
	30	12	13559.757	0.243		Pass
	40	12	13559.824	0.176		Pass
	50	12	13559.842	0.158		Pass
	20	13.8	13560.155	0.155		Pass
		10.2	13560.169	0.169		Pass

Note: Deviation (kHz) = (Test Result-13.56MHz)*1000

Appendix A.3: Test Results of Radiated Spurious Emission (In-Band & Out-Band Emissions)

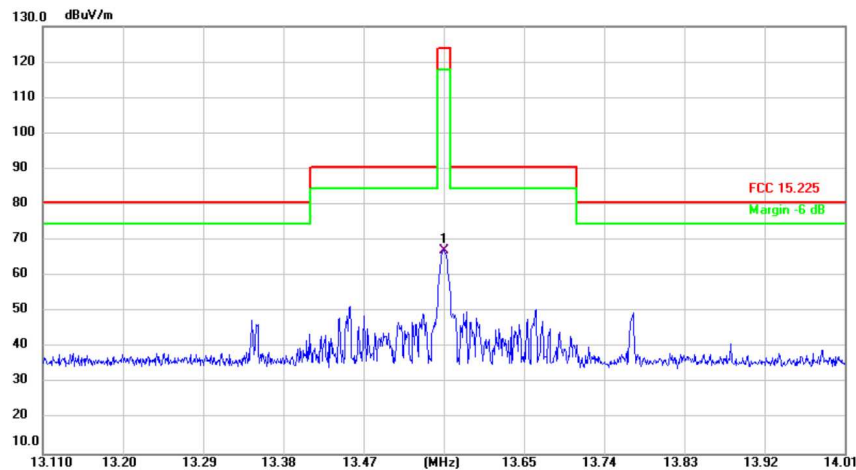
Fundamental



Shenzhen Microtest Co., Ltd.
Building A7, Zone 2, Xinhe Xinxing Industrial Park, Fuzhou
, Bao'an District, Shen TEL: 0755-88850135 FAX: 0755-88850136

Radiated Emission Measurement

Project No.: 环形	Data :#3	2024/7/12	10:03:30
Site : RE Chamber 1	Polarization: Horizontal	Temperature: 23.8 (C)	
Limit: FCC 15.225	Power: DC12V	Humidity: 59 %RH	
EUT: WPC			
M/N: 524B			
Mode: NFC			
Note: 直流源			



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	13.5600	45.83	21.38	67.21	123.99	-56.78	QP	

*:Maximum data x:Over limit !:over margin (Reference Only)
Receiver: ESCI_1 Spectrum Analyzer: ESCI
Antenna: FMZB 1519B电场-20220612 Engineer Signature: Happy
Amplifier:
File: 环形Data :#3 Page: 1

Note: all polarizations for X., Y, Z tested, only the worst-case reported.



Shenzhen Microtest Co., Ltd.
Building A7, Zone 2, Xinhe Xinxing Industrial Park, Fuzhou
, Bao'an District, Shenz TEL: 0755-88850135 FAX: 0755-88850136

Radiated Emission Measurement

Project No.: 环形

Data :#11

2024/7/12

15:09:23

Site : RE Chamber 1

Polarization: **Horizontal**

Temperature: 23.8 (C)

Limit: FCC 15C Radiation Below 1GHz_Peak

Power: DC12V

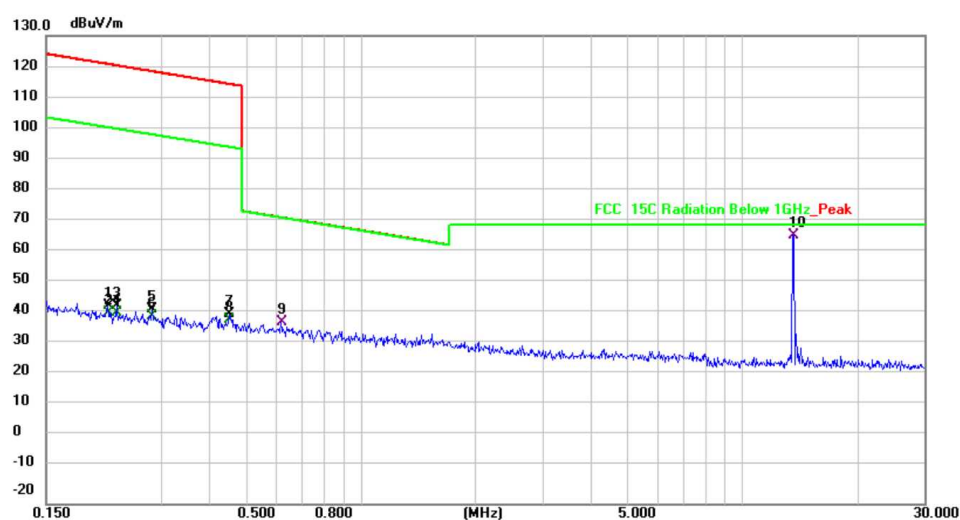
Humidity: 59 %RH

EUT: WPC

M/N: 524B

Mode: NFC

Note: 直流源



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.2174	22.56	21.06	43.62	120.87	-77.25	peak	
2		0.2174	20.29	21.06	41.35	100.87	-59.52	AVG	
3		0.2292	22.33	21.06	43.39	120.41	-77.02	peak	
4		0.2292	20.08	21.06	41.14	100.41	-59.27	AVG	
5		0.2833	21.43	21.08	42.51	118.57	-76.06	peak	
6		0.2833	19.15	21.08	40.23	98.57	-58.34	AVG	
7		0.4515	19.90	21.13	41.03	114.51	-73.48	peak	
8		0.4515	18.11	21.13	39.24	94.51	-55.27	AVG	
9		0.6173	17.19	21.19	38.38	71.80	-33.42	QP	
10	*	13.6228	44.86	21.38	66.24	69.50	-3.26	QP	

*:Maximum data x:Over limit !:over margin

(Reference Only)

Receiver: ESCI_1

Spectrum Analyzer: ESCI

Antenna: FMZB 1519B电场-20220612

Engineer Signature: Happy

Amplifier:

File: 环形Data :#11

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The highest emissions above are the 13.56MHz fundamental signal.

30MHz - 1GHz



Shenzhen Microtest Co., Ltd.
101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China.

Radiated Emission Measurement

Project No.: FCC	Data :#4	2024/7/31	15:42:47
Site : RE Chamber 2	Polarization: Vertical	Temperature: 22.5 (C)	
Limit: FCC ClassB 3M Radiated QP	Power: DC12V	Humidity: 43 %RH	
EUT: WPC			
M/N: 524B			
Mode: NFC			
Note: 实验室蓄电池+主测电脑+OPPO手机			



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit		Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		31.6202	34.82	-9.61	25.21	40.00	-14.79	QP	
2		59.8588	32.13	-7.67	24.46	40.00	-15.54	QP	
3	*	143.8295	44.59	-8.99	35.60	43.50	-7.90	QP	
4		233.3487	40.66	-6.14	34.52	46.00	-11.48	QP	
5		300.3672	34.72	-3.83	30.89	46.00	-15.11	QP	
6		420.5803	39.77	-2.49	37.28	46.00	-8.72	QP	

*:Maximum data x:Over limit !:over margin (Reference Only)

Receiver: Spectrum Analyzer: ESCI

Antenna: 30MHz-1GHz 天线 Engineer Signature: Ives

Amplifier: 30MHz-1GHz 预放-通道1

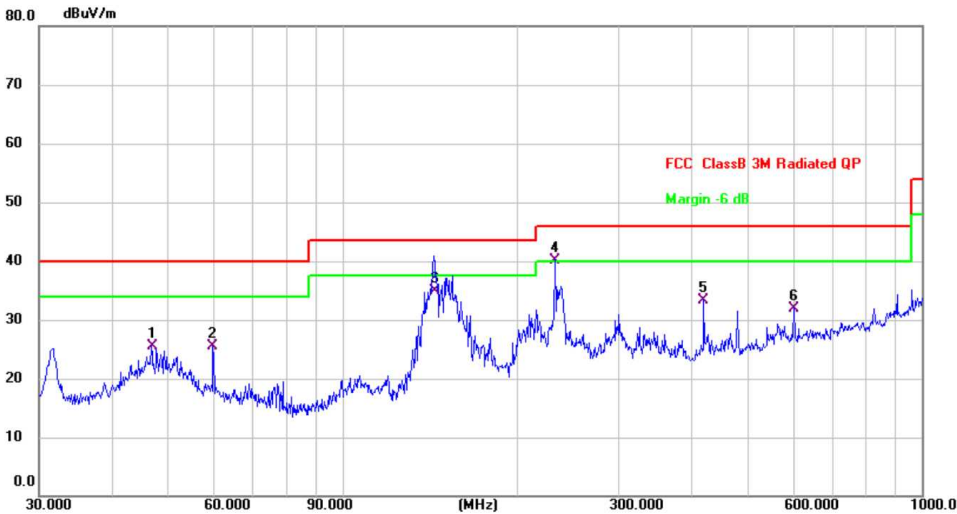
File: FCC\Data :#4 Page: 1



Shenzhen Microtest Co., Ltd.
101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China.

Radiated Emission Measurement

Project No.: FCC	Data :#3	2024/7/31	15:39:48
Site : RE Chamber 2	Polarization: Horizontal	Temperature: 22.5 (C)	
Limit: FCC ClassB 3M Radiated QP	Power: DC12V	Humidity: 43 %RH	
EUT: WPC			
M/N: 524B			
Mode: NFC			
Note: 实验室蓄电池+主测电脑+OPPO手机			



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		46.8302	31.88	-6.37	25.51	40.00	-14.49	QP	
2		59.8588	33.26	-7.67	25.59	40.00	-14.41	QP	
3		143.8295	43.99	-8.99	35.00	43.50	-8.50	QP	
4	*	233.3486	46.34	-6.14	40.20	46.00	-5.80	QP	
5		420.5803	35.72	-2.49	33.23	46.00	-12.77	QP	
6		601.4265	30.56	1.29	31.85	46.00	-14.15	QP	