

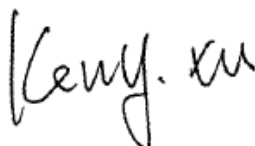
# TEST REPORT

**Application No.:** SZCR2104020445AT  
**Applicant:** Powervision Tech Inc.  
**Address of Applicant:** Area E, Ocean Venture Valley, 40 Yangguang Road, Weihai Nanhai New District, Shandong province, China  
**Manufacturer:** Powervision Tech Inc.  
**Address of Manufacturer:** Area E, Ocean Venture Valley, 40 Yangguang Road, Weihai Nanhai New District, Shandong province, China

**Equipment Under Test (EUT):**  
**EUT Name:** PowerVision S1  
**Model No.:** PVS10  
**Trade Mark:** PowerVision  
**FCC ID:** 2AKBMPVS10  
**Standard(s) :** 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2021-04-09  
**Date of Test:** 2021-04-14 to 2021-04-25  
**Date of Issue:** 2021-04-29

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

\* In the configuration tested, the EUT complied with the standards specified above.

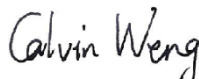
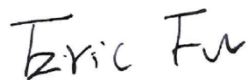


Keny Xu  
 EMC Laboratory Manager



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<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2021-04-29		Original

<b>Authorized for issue by:</b>			
		 <hr/> <b>Calvin Weng/Project Engineer</b>	
		 <hr/> <b>Eric Fu/Reviewer</b>	



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## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2013) Section 6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart C 15.215	Pass
Restricted Bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205	Pass



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC15.4V by li-ion battery(1030mAh) Recharged by DC5V/3A, 9V/2A, 12V/1.5A power adapter
Cable(s):	USB type C to type C cable: 32cm shielded cable without ferrite core
Operation frequency:	113.4kHz to 148.6kHz
WPC Output:	5W, 7.5W, 10W
Modulation type:	Load modulation
Antenna type:	Loop Antenna

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	HUAWEI	HW-200200EP0	C897Y8J9400553
XIAOMI MI 9	XIAOMI	M1902F1A	22006/K9SH01862
Load Resistor	SGS	N/A	REF. No.SEA0600
Mobile Phone	Apple Inc.	A2412	N/A

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
Radiated Emissions (30MHz-1GHz)	± 4.5dB
Radiated Emissions (9kHz-30MHz)	± 4.5dB
20dB Bandwidth	± 3%
Restricted Bands	± 3%



#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

#### 4.5 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



## 5 Equipment List

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22
LISN	ETS-LINDGREN	3816/2	SEM007-02	2021-03-24	2022-03-25

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

Radiated Emissions (9kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2020-11-02	2021-11-01
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2021-04-08	2022-04-07
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2020-07-10	2021-07-09



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<b>20dB Bandwidth</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

<b>Restricted Bands</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

<b>General used equipment</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

Standard 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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 6.1.2 Conclusion

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.

Refer to internal photos



## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207  
 Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

#### 7.1.1 E.U.T. Operation

Operating Environment:

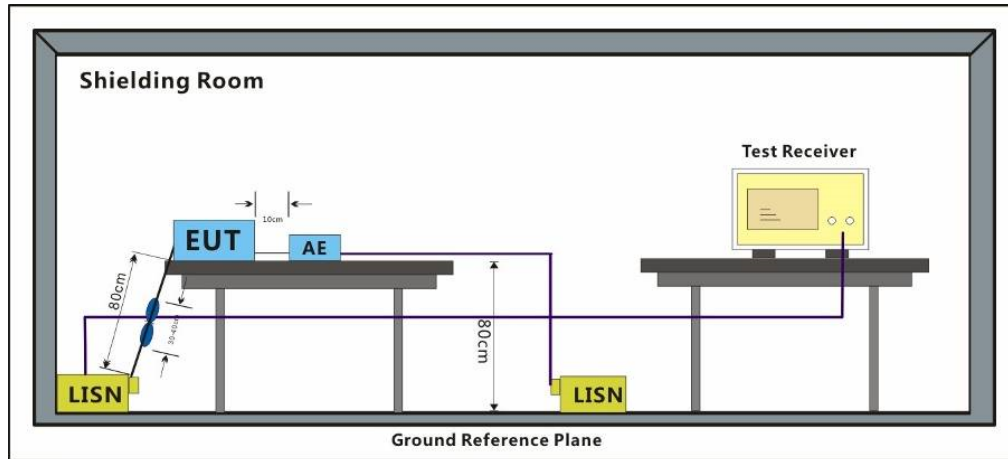
Temperature: 21.9 °C Humidity: 46.7 % RH Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	05	Charge + TX mode_Keep the EUT charged and wireless charging to other device(5W)
Pre-scan	06	Charge + TX mode_Keep the EUT charged and wireless charging to other device(7.5W)
Final test	07	Charge + TX mode_Keep the EUT charged and wireless charging to other device(10W)



**7.1.3 Test Setup Diagram**



**7.1.4 Measurement Procedure and Data**

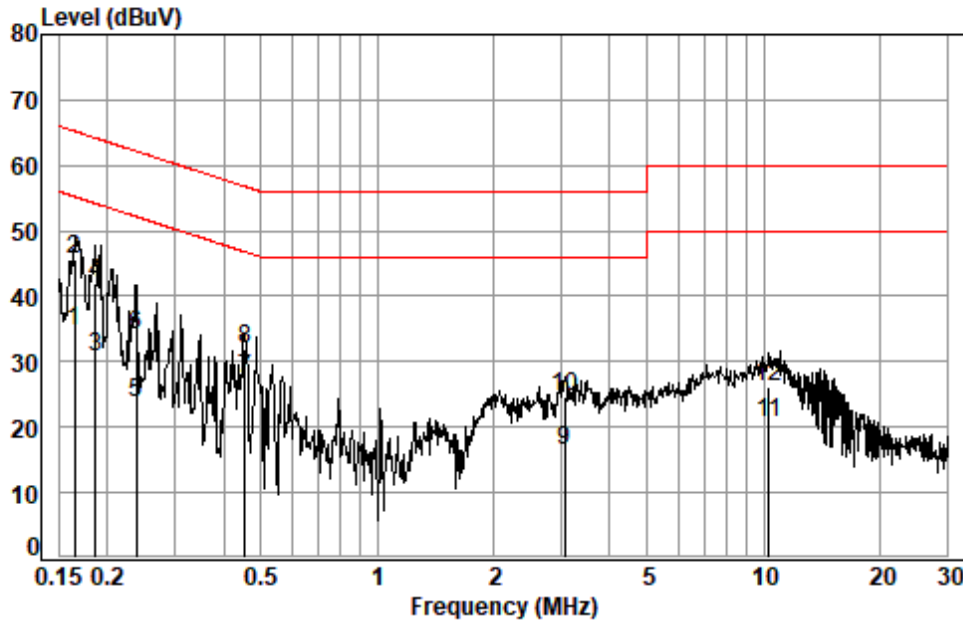
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor





Test Mode: 07; Line: Live line



Site : Shielding Room  
Condition: Line  
Job No. : 20445AT  
Test mode: 07

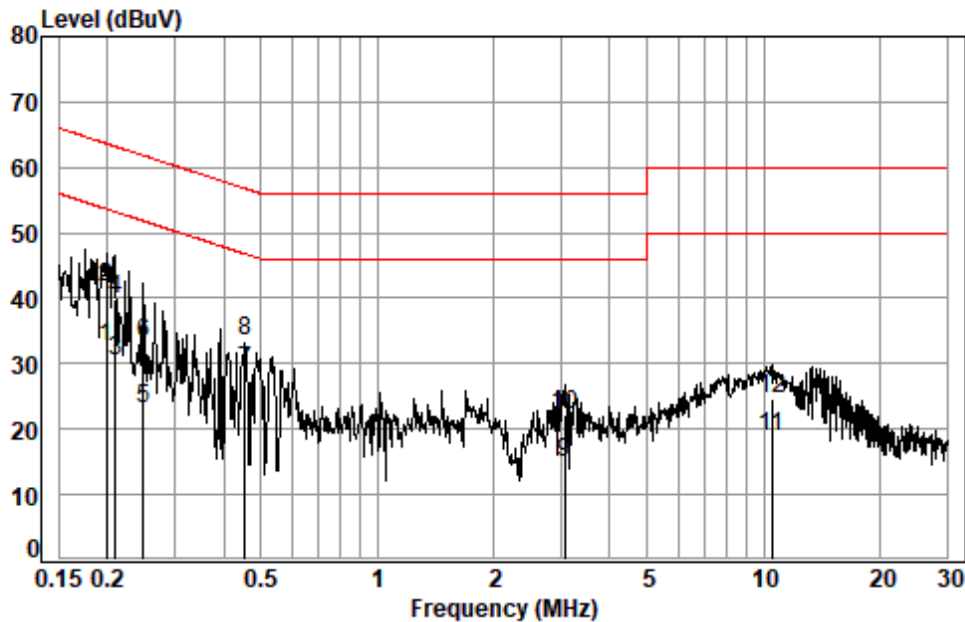
	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1650	0.03	9.71	24.88	34.62	55.21	-20.59	Average
2	0.1650	0.03	9.71	35.77	45.51	65.21	-19.70	QP
3	0.1864	0.03	9.72	20.99	30.74	54.20	-23.46	Average
4	0.1864	0.03	9.72	32.35	42.10	64.20	-22.10	QP
5	0.2378	0.04	9.74	13.99	23.77	52.17	-28.40	Average
6	0.2378	0.04	9.74	24.23	34.01	62.17	-28.16	QP
7	0.4539	0.07	9.77	17.59	27.43	46.80	-19.37	Average
8	0.4539	0.07	9.77	22.01	31.85	56.80	-24.95	QP
9	3.0576	0.14	9.84	6.59	16.57	46.00	-29.43	Average
10	3.0576	0.14	9.84	14.52	24.50	56.00	-31.50	QP
11	10.3422	0.16	10.22	10.32	20.70	50.00	-29.30	Average
12	10.3422	0.16	10.22	15.92	26.30	60.00	-33.70	QP



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Test Mode: 07; Line: Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 20445AT  
Test mode: 07

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1986	0.04	9.72	22.69	32.45	53.67	-21.22	Average
2	0.1986	0.04	9.72	31.77	41.53	63.67	-22.14	QP
3	0.2094	0.04	9.72	20.71	30.47	53.23	-22.76	Average
4	0.2094	0.04	9.72	29.98	39.74	63.23	-23.49	QP
5	0.2481	0.05	9.73	13.41	23.19	51.82	-28.63	Average
6	0.2481	0.05	9.73	23.46	33.24	61.82	-28.58	QP
7	0.4539	0.07	9.76	19.15	28.98	46.80	-17.82	Average
8	0.4539	0.07	9.76	23.62	33.45	56.80	-23.35	QP
9	3.0576	0.14	9.84	5.01	14.99	46.00	-31.01	Average
10	3.0576	0.14	9.84	12.13	22.11	56.00	-33.89	QP
11	10.5079	0.16	10.25	8.57	18.98	50.00	-31.02	Average
12	10.5079	0.16	10.25	14.24	24.65	60.00	-35.35	QP



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**7.2 Radiated Emissions (30MHz-1GHz)**

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209  
 Test Method: ANSI C63.10 (2013) Section 6.5  
 Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

**7.2.1 E.U.T. Operation**

Operating Environment:  
 Temperature: 24.2 °C Humidity: 53.1 % RH Atmospheric Pressure: 1010 mbar

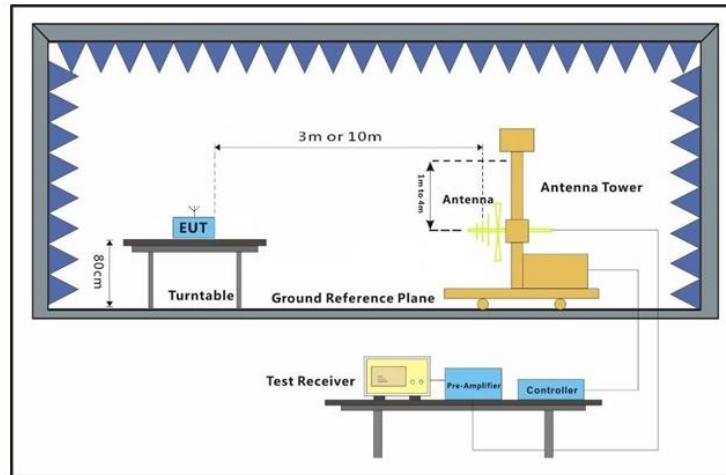
**7.2.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Pre-scan	02	Wireless Charge mode_Keep the EUT wireless charging to other device(5W)
Pre-scan	03	Wireless Charge mode_Keep the EUT wireless charging to other device(7.5W)
Pre-scan	04	Wireless Charge mode_Keep the EUT wireless charging to other device(10W)
Pre-scan	05	Charge + TX mode_Keep the EUT charged and wireless charging to other device(5W)
Pre-scan	06	Charge + TX mode_Keep the EUT charged and wireless charging to other device(7.5W)
Final test	07	Charge + TX mode_Keep the EUT charged and wireless charging to other device(10W)



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**7.2.3 Test Setup Diagram**



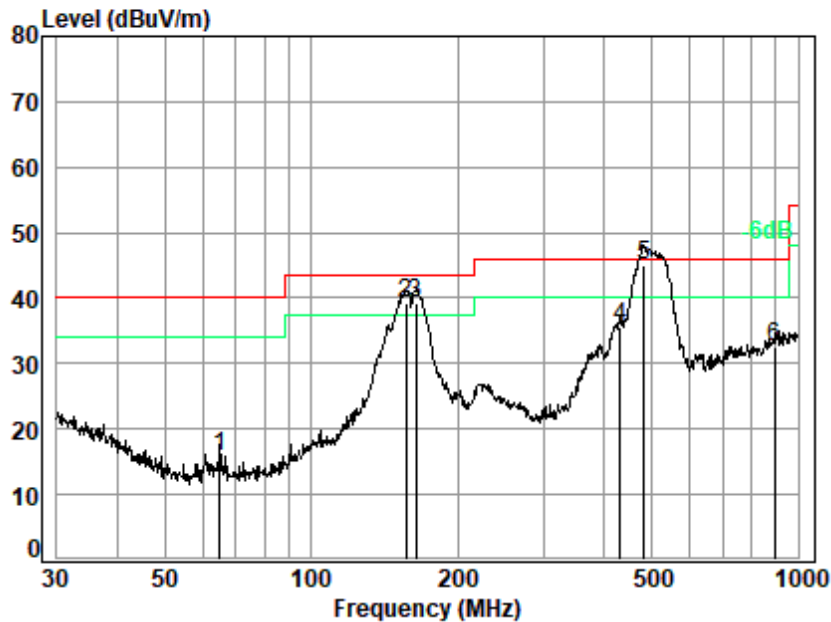
**7.2.4 Measurement Procedure and Data**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Test Mode: 07; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 20445AT  
Test Mode: 07

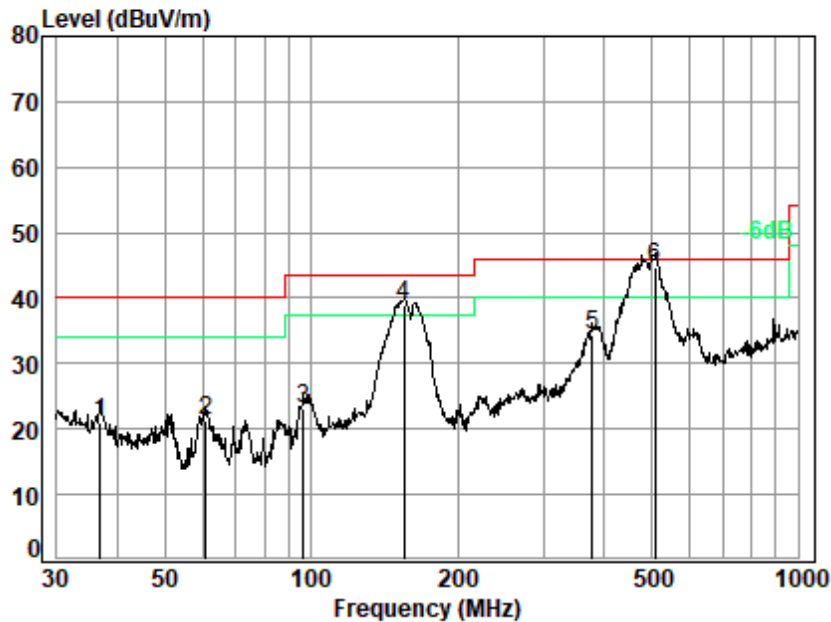
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	64.89	0.80	12.74	27.66	29.89	15.77	40.00	-24.23 QP
2	156.46	1.16	15.16	27.31	50.13	39.14	43.50	-4.36 QP
3	164.33	1.17	15.49	27.28	49.95	39.33	43.50	-4.17 QP
4	431.03	2.37	22.21	27.53	38.47	35.52	46.00	-10.48 QP
5	482.22	2.47	24.30	27.73	45.91	44.95	46.00	-1.05 QP
6	893.86	3.49	28.96	27.20	27.31	32.56	46.00	-13.44 QP



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Test Mode: 07; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 20445AT  
Test Mode: 07

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.77	0.67	19.51	27.71	28.53	21.00	40.00	-19.00 QP
2	60.70	0.80	12.87	27.66	35.35	21.36	40.00	-18.64 QP
3	96.44	1.17	13.80	27.61	35.85	23.21	43.50	-20.29 QP
4	155.36	1.16	15.08	27.31	50.10	39.03	43.50	-4.47 QP
5	377.26	2.24	22.20	27.29	37.18	34.33	46.00	-11.67 QP
6	508.26	2.52	24.27	27.83	45.75	44.71	46.00	-1.29 QP





**7.3 Radiated Emissions (9kHz-30MHz)**

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209  
 Test Method: ANSI C63.10 (2013) Section 6.4  
 Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than  $\lambda/2\pi$  and the limit distance is greater than  $\lambda/2\pi$ , the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the  $\lambda/2\pi$  distance, and at a 20 dB/decade of distance rate beyond  $\lambda/2\pi$ . This shall be accomplished using Equation (2):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(near\ field)}/d_{(10m)}\} + 20\log\{d_{(30/300m)}/d_{(near\ field)}\} \quad (2)$$

If the single point measured is at a distance greater than  $\lambda/2\pi$ , then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(10m)} = FS_{(30/300m)} + 20\log\{d_{(30/300m)}/d_{(10m)}\} \quad (3)$$

If both the single point and the limit distance are equal to or closer to the EUT than  $\lambda/2\pi$ , then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(30/300m)}/d_{(10m)}\} \quad (4)$$

Remark:

$$d_{near\ field} = 47.77 / f_{MHz}$$

where  $f_{MHz}$  is the frequency of the emission being measured in MHz.

**7.3.1 E.U.T. Operation**

Operating Environment:

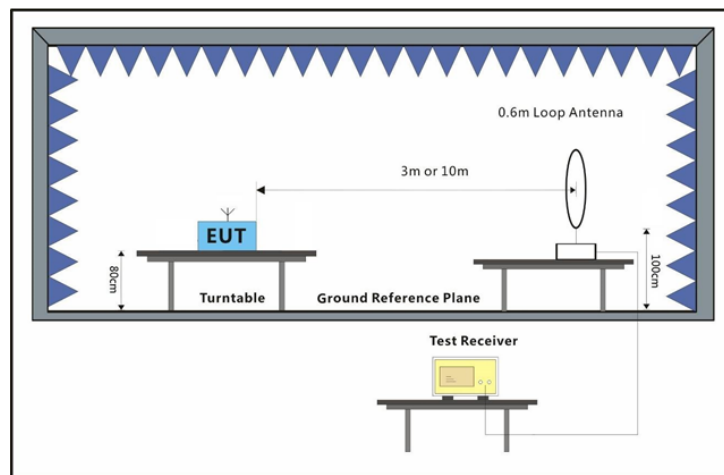
Temperature: 23.2 °C      Humidity: 49 % RH      Atmospheric Pressure: 1010 mbar



**7.3.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Pre-scan	02	Wireless Charge mode_Keep the EUT wireless charging to other device(5W)
Pre-scan	03	Wireless Charge mode_Keep the EUT wireless charging to other device(7.5W)
Pre-scan	04	Wireless Charge mode_Keep the EUT wireless charging to other device(10W)
Pre-scan	05	Charge + TX mode_Keep the EUT charged and wireless charging to other device(5W)
Pre-scan	06	Charge + TX mode_Keep the EUT charged and wireless charging to other device(7.5W)
Final test	07	Charge + TX mode_Keep the EUT charged and wireless charging to other device(10W)

**7.3.3 Test Setup Diagram**



**7.3.4 Measurement Procedure and Data**

- a. All radiated emission measurements in terms of magnetic field strength shall be performed with a shielded loop antenna.
- b. For all radiated emission measurements in terms of magnetic field strength, the loop antenna were placed such that:
  - i. its centre shall be at 1.3 m height above the ground plane;
  - ii. the projection of its centre onto the ground plane shall be at the specified measurement distance from the projection on the ground plane of the closest point on the boundary of the equipment under test (EUT); and
  - iii. measurements shall be performed with the loop antenna placed vertically, in turn, in two polarizations (the measurement axis specified below is the line segment connecting the projections on the ground plane of the centre of the loop antenna and the centre of the EUT arrangement):
    - coaxial (loop plane perpendicular to the ground plane and to the measurement axis); and
    - coplanar (loop plane perpendicular to the ground plane and coplanar with the measurement axis).



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9KHz-150KHz

Freq (MHz)	Read_Level (dBuV)	Antenna_Factor (dB/m)	Cable_Loss (dB)	Preamp_Gain (dB)	Level (dBuV/m)	Limit_Line (dBuV/m)	Over_Limit (dB)	Remark
0.01502	71.7	15.98	0.01	31.73	55.96	124.07	-68.11	AV
0.0282	70.78	12.88	0.01	32.13	51.54	118.6	-67.06	AV
0.13709	98.71	11.01	0.02	32.5	77.24	104.86	-27.62	AV

150KHz-30MHz

Freq (MHz)	Antenna_Factor (dB/m)	Preamp_Gain (dB)	Read_Level (dBuV)	Cable_Loss (dB)	Level (dBuV/m)	Limit_Line (dBuV/m)	Over_Limit (dB)	Remark
0.15000	10.99	32.2	75.73	0.02	54.54	104.08	-49.54	AV
0.34463	10.88	32.23	75.52	0.3	54.47	96.86	-42.39	AV
13.5510	8.88	32.35	73.7	0.61	50.84	69.54	-18.7	QP

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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**7.4 20dB Bandwidth**

Test Requirement 47 CFR Part 15, Subpart C 15.215  
 Test Method: ANSI C63.10 (2013) Section 6.9.2

Limit:  
 N/A, For report reference only

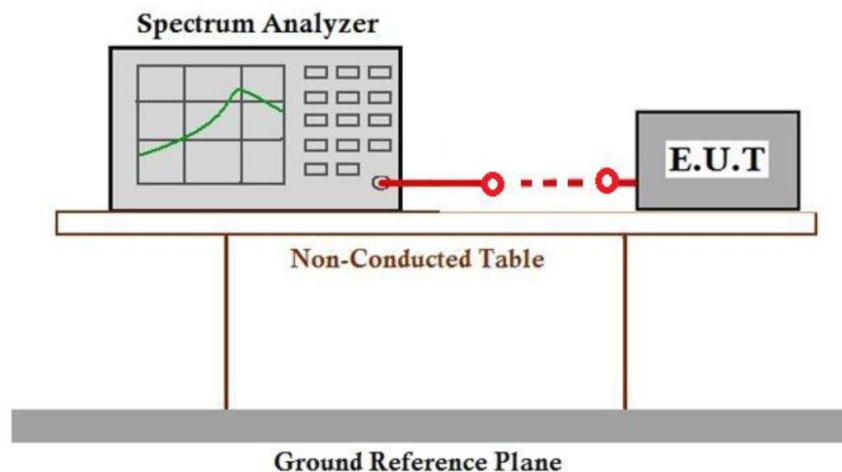
**7.4.1 E.U.T. Operation**

Operating Environment:  
 Temperature: 21.9 °C Humidity: 40.9 % RH Atmospheric Pressure: 1010 mbar

**7.4.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Pre-scan	02	Wireless Charge mode_Keep the EUT wireless charging to other device(5W)
Pre-scan	03	Wireless Charge mode_Keep the EUT wireless charging to other device(7.5W)
Final test	04	Wireless Charge mode_Keep the EUT wireless charging to other device(10W)

**7.4.3 Test Setup Diagram**

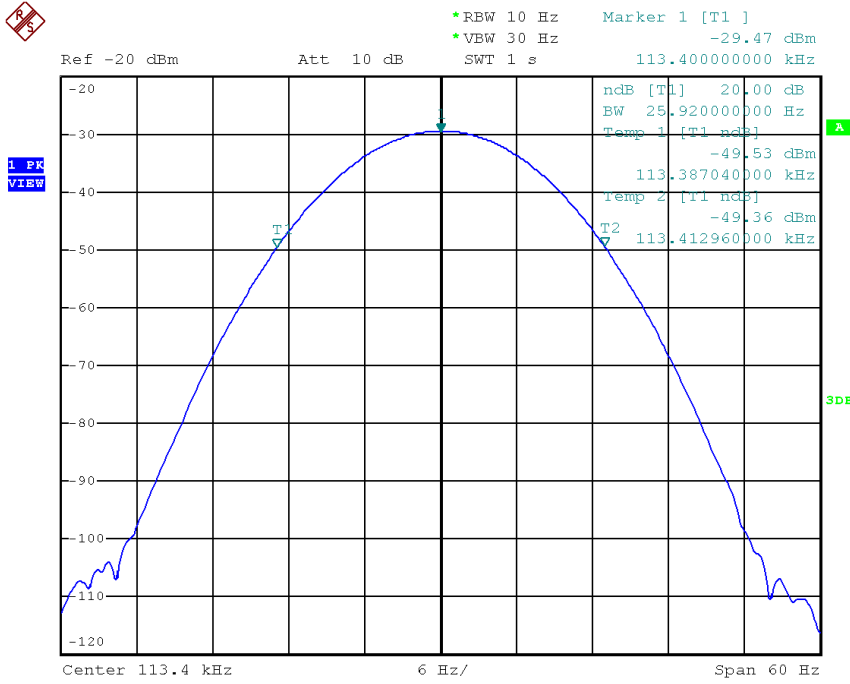


**7.4.4 Measurement Procedure and Data**



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### 7.5 Restricted Bands

Test Requirement 47 CFR Part 15, Subpart C 15.205  
 Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

The fundamental wave could not fall in the restricted band 90KHz-110KHz

#### 7.5.1 E.U.T. Operation

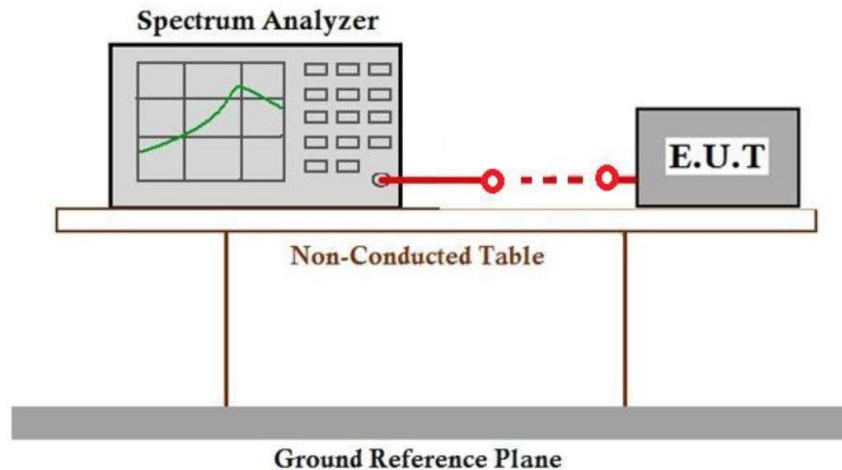
Operating Environment:

Temperature: 21.9 °C Humidity: 40.9 % RH Atmospheric Pressure: 1010 mbar

#### 7.5.2 Test Mode Description

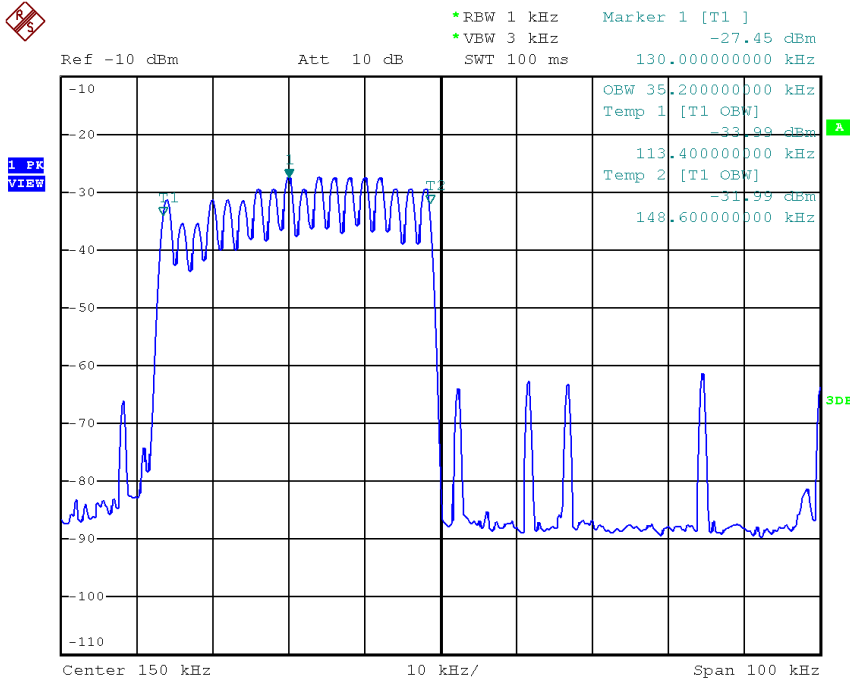
Pre-scan / Final test	Mode Code	Description
Pre-scan	02	Wireless Charge mode_Keep the EUT wireless charging to other device(5W)
Pre-scan	03	Wireless Charge mode_Keep the EUT wireless charging to other device(7.5W)
Final test	04	Wireless Charge mode_Keep the EUT wireless charging to other device(10W)

#### 7.5.3 Test Setup Diagram



#### 7.5.4 Measurement Procedure and Data





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## 8 Test Setup Photo

Refer to setup photos for SZCR2104020445AT

## 9 EUT Constructional Details (EUT Photos)

Refer to external and internal photos for SZCR2104020445AT

- End of the Report -

