

## SHENZHEN DNS INDUSTRIES CO., LTD.

# **TEST REPORT**

#### **SCOPE OF WORK**

FCC TESTING-WD-268E, SKCHWC0110WCN

#### **REPORT NUMBER**

240226031SZN-001

**ISSUE DATE** 

[REVISED DATE]

08 April 2024

[-----]

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Intertek Report No.: 240226031SZN-001

#### SHENZHEN DNS INDUSTRIES CO., LTD.

Application For Certification

FCC ID: ZBC-WD268E

Wireless charger

Model: WD-268E

**Additional Model: SKCHWC0110WCN** 

**Transmitter** 

Report No.: 240226031SZN-001

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-22]

Prepared and Checked by:	Approved by:
Holland Yang	Ryan Chen
Engineer	Sr. Project Engineer
	Date: 08 April 2024

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#### Intertek Testing Services Shenzhen Ltd. Longhua Branch

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### **MEASUREMENT/TECHNICAL REPORT**

This report concerns (check one)	Original Grant	X	_ Class II	Change		
Equipment Type: <u>DCD - Part 15 Low Pc</u>	ower Transmitte	er Below 1	705 kHz			
Deferred grant requested per 47 CFR 0	.457(d)(1)(ii)?					
Company Name agrees to notify the Co	ommission by: _		defer un	itil :	date	
of the intended date of announcement that date.	it of the product	t so that t	he grant o	can be i	ssued on	
Transition Rules Request per 15.37?		Yes		No _	Х	
If no, assumed Part 15, Subpart C fo 22] Edition] provision.	r intentional ra	diator - t	he new 4	7 CFR	[10-01-	
Report prepared by:						
Holland Yang Intertek Testing Services Shenzhen Ltd. Longhua Branch 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, ShenZhen. Tel: (86 755) 8614 0743 Fax: (86 755) 8601 6751						

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#### 1.0 Summary of Test Results

Applicant: SHENZHEN DNS INDUSTRIES CO., LTD.

Applicant Address: 23/F Building A, Shenzhen International Innovation Center, No.1006

Shennan Road, Futian, Shenzhen, China

Manufacturer: HUIZHOU DNS TECHNOLOGY CO., LTD.

Manufacturer Address: 5 Dongshun South Road, Dongjiang Hi-tech Industrial Park, Zhongkai

Hi-tech Zone, Huizhou City, Guangdong, China

Model: WD-268E

FCC ID: ZBC-WD268E

TEST ITEM	REFERENCE	RESULTS	
Power Line Conducted Emissions	15.207	Pass	
Transmitter Radiated Emissions	15.209	Pass	
Antenna Requirement	15.203	Pass (See Notes)	

Notes: The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

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## 2.1 Product Description

**General Description** 

2.0

The Equipment Under Test (EUT) is a Wireless charger operating at 111-205 kHz. The EUT is powered by DC 5V 1.5A, 9V1.67A from Adapter, the output of the wireless charger is 5W, 7.5W, 10W. The EUT has only one coil antenna, and the EUT will discharge according to the placement of the charged product. For more detailed features description, please refer to the user's manual.

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Antenna Type: Integral Antenna (embedded coil antenna)

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

The Model: SKCHWC0110WCN is the same as the Model: WD-268E in hardware aspect. The difference in model number serves as marketing strategy.

#### 2.2 Related Submittal(s) Grants

This is an application for certification of the Wireless charger portion.

#### 2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in Semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst-case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Justification Section" of this Application. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

#### 2.4 Test Facility

The Semi-Anechoic chamber and shield room used to collect the radiated data and conducted data are Intertek **Testing Services Shenzhen Ltd. Longhua Branch** and located at 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, ShenZhen. This test facility and site measurement data have been fully placed on file with File Number: CN1188.

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#### 3.0 System Test Configuration

#### 3.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.10 (2013).

The EUT was powered by an adapter with 120V/60Hz input during the test. The test system was pre-scanning tested based on the consideration of following EUT operation mode. All designing schemes were tested, Only the worst-case data was shown in this report.

Pertest mode	Description
Mode 1	Standby mode
Mode 2	Mobile phone is charging at 1% battery power
Mode 3	Mobile phone is charging at 50% battery power
Mode 4	Mobile phone is charging at 99% battery power

For maximizing emissions below 30 MHz, the EUT was rotated through 360°, the bottom of the loop antenna was placed 1 meter above the ground, and the antenna polarization was changed. For maximizing emission at and above 30 MHz, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data report in Section 4.0.

The rear of unit shall be flushed with the rear of the table.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was mounted to a plastic stand if necessary and placed on the styrene turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

#### 3.2 EUT Exercising Software

N/A

#### 3.3 Special Accessories

There is no special accessories necessary for compliance of this product.

#### 3.4 Equipment Modification

Any modifications installed previous to testing by SHENZHEN DNS INDUSTRIES CO., LTD. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Longhua Branch.

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#### 3.5 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Measurement Uncertainty	Uncertainty
Channel Bandwidth	±3.46%
Radiated emission (Up to 1GHz)	±4.8dB
AC Conducted emission	±3.2 dB
Temperature	±1°C
Humidity	±5%

#### 3.6 Support Equipment List and Description

This product was tested in the following configuration:

Description	Manufacturer	Detail
Wireless charging simulator	Apple (Provided by Intertek)	Model: iPhone (A2884)
Adapter	NIL (Provided by Intertek)	Model: AC-250K Input: 100-240Vac 50/60Hz 0.55A Output: 5Vdc 2A, 9Vdc 2A

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#### 4.0 Measurement Results

#### 4.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD + AV$$

where FS = Field Strength in  $dB\mu V/m$ 

RA = Receiver Amplitude (including preamplifier) in dBμV

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB/m AG = Amplifier Gain in dB

PD = Pulse Desensitization in dB

AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD + AV$$

#### **Example**

Assume a receiver reading of  $62.0dB\mu V$  is obtained. The antenna factor of 7.4dB and cable factor of 1.6dB is added. The amplifier gain of 29dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0dB, and the resultant average factor was -10dB. The net field strength for comparison to the appropriate emission limit is  $32dB\mu V/m$ . This value in  $dB\mu V/m$  was converted to its corresponding level in  $\mu V/m$ .

RA = 62.0dBμV AF = 7.4 dB/m CF = 1.6dB AG = 29.0dB PD = 0dB

AV = -10dB

FS =  $62 + 7.4 + 1.6 - 29 + 0 + (-10) = 32 dB\mu V/m$ 

Level in  $\mu V/m = Common Antilogarithm [(32dB<math>\mu V/m)/20] = 39.8 \mu V/m$ 

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#### 4.2 Radiated Emission Configuration Photograph

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

#### 4.3 Radiated Spurious Emission

Worst Case Radiated Spurious Emission at 30.485000MHz

Judgement: Passed by 10.9 dB margin

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

Sign on file

Holland Yang, Engineer
Typed/Printed Name

March 04, 2024

Date

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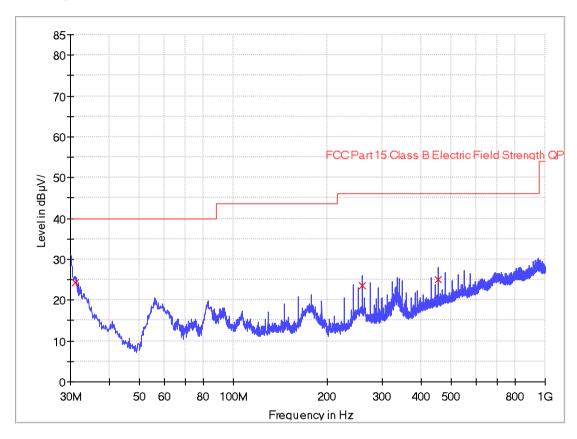
Applicant: SHENZHEN DNS INDUSTRIES CO., LTD.

Date of Test: March 04, 2024 Model: WD-268E

Worst Case Operating Mode: Mode 2

#### Radiated Emissions (30MHz - 1000MHz)

**ANT Polarity: Horizontal** 



Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarizati on	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
31.212500	24.3	1000.0	120.000	Н	16.9	15.7	40.0
258.677500	23.5	1000.0	120.000	Н	14.3	22.5	46.0
454.860000	25.1	1000.0	120.000	Н	19.5	20.9	46.0

#### Remark:

- 1. Corr. (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. QuasiPeak (dB $\mu$ V/m)= Corr. (dB/m)+ Read Level (dB $\mu$ V)
- 3. Margin (dB) = Limit Line(dB $\mu$ V/m) Level (dB $\mu$ V/m)

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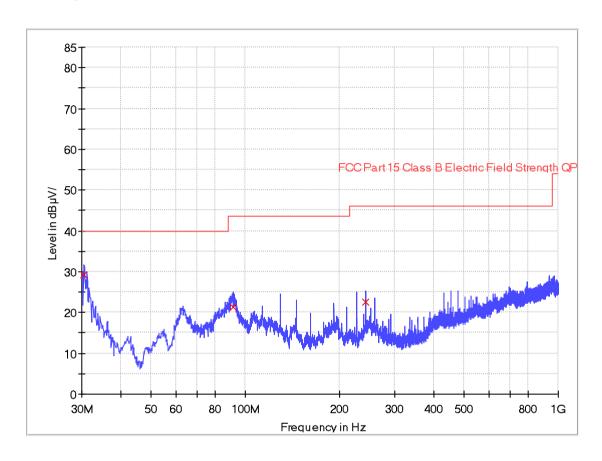


Applicant: SHENZHEN DNS INDUSTRIES CO., LTD.

Date of Test: March 04, 2024 Model: WD-268E

Worst Case Operating Mode: Mode 2

**ANT Polarity: Vertical** 



Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
30.485000	29.1	1000.0	120.000	V	17.3	10.9	40.0
91.473750	21.4	1000.0	120.000	V	9.4	22.1	43.5
242.793750	22.6	1000.0	120.000	V	13.7	23.4	46.0

#### Remark:

- 1. Corr. (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. QuasiPeak (dB $\mu$ V/m)= Corr. (dB/m)+ Read Level (dB $\mu$ V)
- 3. Margin (dB) = Limit Line(dB $\mu$ V/m) Level (dB $\mu$ V/m)

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Applicant: SHENZHEN DNS INDUSTRIES CO., LTD.

Date of Test: March 04, 2024 Model: WD-268E

Worst Case Operating Mode: Mode 2

#### **Fundamental & Spurious Emission Below 30MHz**

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Distance Factor (-dB)	Calulated at 300m (dBµV/m)	Limit at 300m (dBµV/m)	Margin (dB)
Horizontal	0.1199	57.1	0.0	17.1	74.2	80	-5.8	26.0	-31.8
Horizontal	0.2396	42.9	0.0	17.0	59.9	80	-20.1	20.0	-40.1

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Distance Factor (-dB)	Calulated at 30m (dBµV/m)	Limit at 30m (dBµV/m)	Margin (dB)
Horizontal	0.5997	31.5	0.0	16.8	48.3	40	8.3	32.0	-23.7
Horizontal	1.1995	25.2	0.0	15.9	41.1	40	1.1	26.0	-24.9

Notes:

- 1. The specified limits of frequency band 9~90 KHz, 110~490 KHz are in average and measurements are made with peak detectors. Quasi-Peak detector is used for other frequency band.
- 2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4.Loop antenna is used for the emission under 30MHz.
- 5. Horizontal and Vertical polarization were tested and Only the worst Case data is shown.

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4.4 Conducted Emission Configuration Photograph

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: conducted photos.pdf.

4.5 Conducted Emission

Worst Case Conducted Configuration at 29.930000MHz

Judgement: Passed by 5.5dB margin

Sign on file

Holland Yang, Engineer
Typed/Printed Name

March 04, 2024 Date

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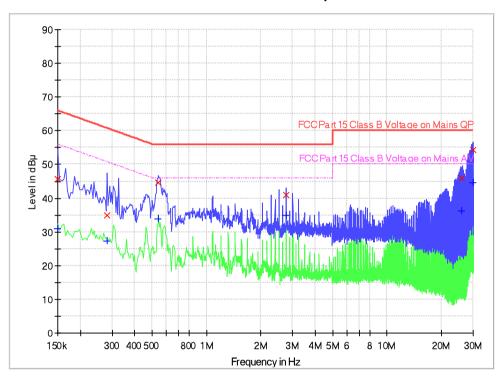
Applicant: SHENZHEN DNS INDUSTRIES CO., LTD.

Date of Test: March 04, 2024 Model: WD-268E

Worst Case Operating Mode Mode 3
Test Voltage: 120V/60Hz Phase: Live

### **Graphic / Data Table**

## Conducted Emissions Pursuant to FCC 15.207: Emissions Requirement



### **Limit and Margin QP**

	,					
Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	45.8	9.000	L1	9.6	20.2	66.0
0.282000	35.0	9.000	L1	9.7	25.8	60.8
0.542000	44.5	9.000	L1	9.7	11.5	56.0
2.766000	40.9	9.000	L1	9.7	15.1	56.0
25.838000	45.9	9.000	L1	10.9	14.1	60.0
29.930000	54.4	9.000	L1	11.1	5.6	60.0

#### **Limit and Margin AV**

Frequency (MHz)	Average (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	31.0	9.000	L1	9.6	25.0	56.0
0.282000	27.4	9.000	L1	9.7	23.4	50.8
0.542000	34.0	9.000	L1	9.7	12.0	46.0
2.766000	35.0	9.000	L1	9.7	11.0	46.0
25.838000	36.2	9.000	L1	10.9	13.8	50.0
29.930000	44.5	9.000	L1	11.1	5.5	50.0

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Applicant: SHENZHEN DNS INDUSTRIES CO., LTD.

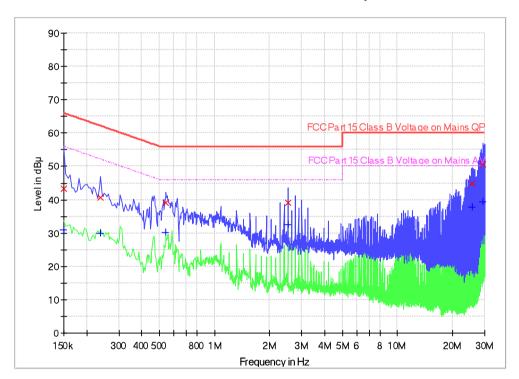
Date of Test: March 04, 2024 Model: WD-268E

Worst Case Operating Mode Mode 3

Test Voltage: 120V/60Hz Phase: Neutral

#### **Graphic / Data Table**

## Conducted Emissions Pursuant to FCC 15.207: Emissions Requirement



#### **Limit and Margin QP**

Frequency	QuasiPeak	Bandwidth	Line	Corr.	Margin	Limit
(MHz)	(dBuV)	(kHz)		(dB)	(dB)	(dBuV)
0.150000	43.2	9.000	N	9.6	22.8	66.0
0.238000	40.8	9.000	N	9.6	21.4	62.2
0.542000	39.0	9.000	N	9.6	17.0	56.0
2.522000	39.0	9.000	N	9.7	17.0	56.0
25.574000	44.8	9.000	N	10.9	15.2	60.0
29.426000	50.7	9.000	N	11.1	9.3	60.0

#### **Limit and Margin AV**

Ī	Frequency	Average	Bandwidth	Line	Corr.	Margin	Limit
	(MHz)	(dBuV)	(kHz)		(dB)	(dB)	(dBuV)
	0.150000	31.0	9.000	N	9.6	25.0	56.0
	0.238000	29.9	9.000	N	9.6	22.3	52.2
	0.542000	30.2	9.000	N	9.6	15.8	46.0
	2.522000	32.5	9.000	N	9.7	13.5	46.0
	25.574000	37.8	9.000	N	10.9	12.2	50.0
	29.426000	39.4	9.000	N	11.1	10.6	50.0

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#### 5.0 **Equipment Photographs**

For electronic filing, the photographs are saved with filename: external photos.pdf & internal photos.pdf.

#### 6.0 **Product Labeling**

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf.

#### 7.0 Technical Specifications

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

#### 8.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

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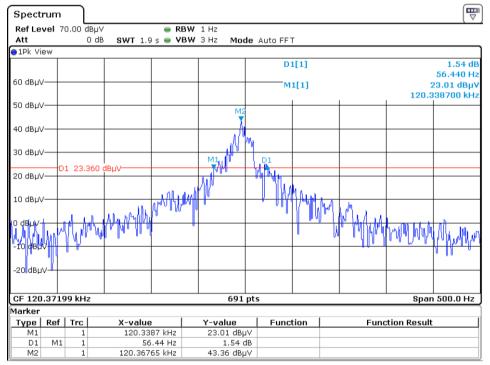


#### 9.0 Miscellaneous Information

This miscellaneous information includes 20dB bandwidth and emission measuring procedure.

#### 9.1 20dB bandwidth

Pursuant to FCC part 15 Section 15.215(c), the 20dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered. The test plots are reported as below.



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#### 9.2 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services in the measurements of transmitters operating under Part 15, Subpart C rules.

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.10 - 2013.

The transmitting equipment under test (EUT) is placed on a styrene turntable which is four feet in diameter and approximately 0.8 meter in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axes to obtain maximum emission levels. The antenna height and polarization are varied during the testing to search for maximum signal levels.

Average detector is used for 9–90 KHz, 110–490 KHz and Quasi-Peak detector is used for other frequency band. The IF bandwidth used for measurement of radiated signal strength was 10 KHz for emission below 30 MHz and 120 KHz for emission from 30 MHz to 1000 MHz.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz up to the 1GHz. For line-conducted emissions, the range scanned is 150kHz to 30MHz.

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#### 9.2 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements are made as described in ANSI C63.10 - 2013.

The IF bandwidth used for measurement of radiated signal strength was 10 kHz for emission below 30 MHz and 120 kHz for emission from 30 MHz to 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitivity is applicable to this unit is included in this report.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the restricted bands, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, but those measurements taken at a closer distance are so marked.

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#### 10.0 <u>Test Equipment List</u>

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-12	BiConiLog Antenna	ETS	3142E	00166158	2021-08-04	2024-08-04
SZ185-04	EMI Receiver	R&S	ESCI	100547	2023-11-10	2024-11-10
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	2021-05-18	2024-05-18
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	2023-04-27	2024-04-27
SZ056-06	Signal Analyzer	R&S	FSV 40	101101	2022-12-19	2023-12-19
32030-00					2023-12-13	2024-12-13
\$7188-01	Anechoic Chamber	ETS	RFD-F/A- 100	4102	2021-12-12	2024-12-12
SZ062-02	RF Cable	RADIALL	RG 213U	-	2023-11-15	2024-05-15
SZ062-05 RF Cable	RADIALL	0.04- 26.5GHz		2023-11-15	2024-05-15	
SZ062-12	RF Cable	RADIALL	0.04- 26.5GHz	1	2023-11-15	2024-05-15
SZ185-02 SZ187-02 SZ188-03	EMI Test Receiver	R&S	ESCI	100692	2023-07-11	2024-07-11
	Two-Line V- Network	R&S	ENV216	100073	2023-04-27	2024-04-27
	Shielding Room	ETS	RFD-100	4100	2022-12-20	2025-12-20
SZ062-16	RF Cable	HUBER+SUHNE R	CBL2-BN- 1m	110127- 2231000	2023-07-11	2024-07-11

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