

# Ottlite Technologies Inc.

# **TEST REPORT**

SCOPE OF WORK FCC TESTING–W13

REPORT NUMBER 210609020SZN-001

**ISSUE DATE** 02 August 2021 [REVISED DATE]

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#### **Ottlite Technologies Inc.**

Application For Certification

#### FCC ID: 2AI7B-W13

#### LED table lamp

#### Model: W13

Brand name: CttLite

#### Transmitter

#### Report No.: 210609020SZN-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 [10-1-19]

Prepared and Checked by:

Approved by:

Jeff Liang Engineer Peter Kang Senior Technical Supervisor Date: 02 August 2021

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#### 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) 8601 6288 Fax: (86 755) 8601 6751



#### **MEASUREMENT/TECHNICAL REPORT**

This report concerns (check one)       Original Grant Class II Change         Equipment Type: DCD - Part 15 Low Power Transmitter Below 1705 kHz         Deferred grant requested per 47 CFR 0.457(d)(1)(ii)?       Yes NoX         If yes, defer until:         date         Company Name agrees to notify the Commission by:         date         of the intended date of announcement of the product so that the grant can be issued on that date         Transition Rules Request per 15.37?       Yes No         If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-01-19] Edition.         provision.         Report prepared by:         Jeff Liang         Intertek Testing Services Shenzhen Ltd. Longhua Branch         101, 201, Building B, No. 308 Wuhe Avenue, Zhangkenging         Community, GuanHu Subdistrict, LongHua District, ShenZhen.         Tel: (86 755) 8614 0743	This report concerns (check one)	Original Grant	x	Class II Change		
Deferred grant requested per 47 CFR 0.457(d)(1)(ii)?       Yes NoX         If yes, defer until:         date         Company Name agrees to notify the Commission by:         date         of the intended date of announcement of the product so that the grant can be issued on that date         Transition Rules Request per 15.37?         Yes NoX         If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-01-19] Edition         provision.         Report prepared by:         Jeff Liang         Intertek Testing Services Shenzhen Ltd. Longhua Branch         101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing         Community, GuanHu Subdistrict, LongHua District, ShenZhen.		-		_		
If yes, defer until:						
date         Company Name agrees to notify the Commission by:	Deferred grant requested per 47	CFR 0.457(d)(1)(ii)?	Yes	No <u></u>		
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Jeff Liang Intertek Testing Services Shenzhen Ltd. Longhua Branch 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, ShenZhen.	If no, assumed Part 15, Subpart					
	Report prepared by:	Intertek Testing Serv 101, 201, Building B, Community, GuanHu	No. 308 Wu Subdistrict	ihe Avenue, Zhangk , LongHua District, S	engjing	

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#### **Table of Contents**

1.0	Summary of Test Results4	1
2.0	General Description	
2.1 2.2 2.3 2.4	Product Description	
3.0	System Test Configuration	
3.1 3.2 3.3 3.4 3.5 3.6	Justification       6         EUT Exercising Software       6         Special Accessories       6         Equipment Modification       6         Measurement Uncertainty       7         Support Equipment List and Description       7	
4.0	Measurement Results8	
4.1 4.2 4.3 4.4 4.5	Field Strength Calculation8Radiated Emission Configuration Photograph9Radiated Spurious Emission9Conducted Emission Configuration Photograph12Conducted Emission12Conducted Emission12	
5.0	Equipment Photographs15	,
6.0	Product Labelling	
7.0	Technical Specifications15	ļ
8.0	Instruction Manual15	ļ
9.0	Miscellaneous Information16	ļ
9.1 9.2	20dB Bandwidth	
10.0	Test Equipment List	,

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Test Report

#### 1.0 Summary of Test Results

Applicant: Ottlite Technologies Inc. Applicant Address: 1715 N Westshore Blvd STE 950 Tampa, FL 33607 United States Manufacturer: Ottlite Technologies Inc. Manufacturer Address: 1715 N Westshore Blvd STE 950 Tampa, FL 33607 United States

#### Model: W13

#### FCC ID: 2AI7B-W13

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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#### 2.0 General Description

#### 2.1 Product Description

The Equipment Under Test (EUT) is a LED table lamp with wireless charger function which operating in 111-205 kHz. The EUT is powered by a DC 12V/2.5A adapter, the output of the wireless charger is 5W, and the output of USB port is DC 5V/ 2.1A. For more detailed features description, please refer to the user's manual.

Antenna Type: Integral Antenna(embedded coil antenna)

The LED Table Lamp has two designing schemes. It would be placed on the market with two different adapters, Adapter Model: TY1200250A1mn or Adapter Model: BZ36-120250-AU. All tests are required to both designing schemes after evaluation, but only worst-case is reported in the report.

Adapter	Model	Electrical parameters
Adapter 1	TY1200250A1mn	Input: 100-240V~ 50/60Hz 1.2A
	TTIZOUZSUAIIIII	Output: 12.0V-2.5A
Adapter 2	D726 120250 AU	Input: 100-240V~ 50/60Hz 1.0A
	BZ36-120250-AU	Output: 12.0V-2.5A

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

#### 2.2 Related Submittal(s) Grants

This is an application for certification of the LED table lamp with wireless charging function 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.



#### 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 AC 120V/60Hz during the test. The test system was pre-scanning tested based on the consideration of following EUT operation mode. Both designing schemes were tested, Only the worst-case data is 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 centre 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 EUT and transmitting antenna was centered on the turntable.

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

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst-case configuration is used in all specified testing.

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 Ottlite Technologies Inc. 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.



#### 3.5 Measurement Uncertainty

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

#### 3.6 Support Equipment List and Description

This product was tested in the following configuration:

Description	Manufacturer	Detail	
Mobile Phone	Samsung	S7	
USB cable	NIL (Provided by Intertek)	Unshielded, Length 80cm	
Cement resistor	NIL (Provided by Intertek)	2.4Ω	
Adapter	DongGuan Toye Electronics Technology Co., Ltd	Model No: TY1200250A1mn Input: 100-240V~ 50/60Hz 1.2A Output: 12.0V=2.5A	
Adapter	Analog Power Electronic Co., Ltd.	Model No: BZ36-120250-AU Input: 100-240V~ 50/60Hz 1.0A Output: 12.0V=2.5A	



Test Report

#### 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  $dB\mu V$
  - CF = Cable Attenuation Factor in dB
  - AF = Antenna Factor in dB
  - 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.

 $RA = 62.0dB\mu V$  AF = 7.4dB 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 $\mu$ V/m)/20] = 39.8 $\mu$ V/m



#### 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 62.301000MHz

#### Judgement: Passed by 5.2dB margin

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



Applicant: Ottlite Technologies Inc. Date of Test: July 22, 2021 Model: W13 Adapter Model: BZ36-120250-AU Worst Case Operating Mode: Mode 2

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

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	63.691333	40.3	20.0	7.1	27.4	40.0	-12.6
Horizontal	150.150667	40.2	20.0	8.7	28.9	43.5	-14.6
Horizontal	177.860333	34.6	20.0	14.7	29.3	43.5	-14.2
Vertical	54.767333	37.0	20.0	17.0	34.0	40.0	-6.0
Vertical	62.301000	47.7	20.0	7.1	34.8	40.0	-5.2
Vertical	140.935667	47.5	20.0	7.8	35.3	43.5	-8.2

Notes:

- 1. Quasi-Peak detector is used for frequency below 1GHz.
- 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances 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. All emissions are below the QP limit.



Applicant: Ottlite Technologies Inc. Date of Test: July 22, 2021 Model: W13 Adapter Model: BZ36-120250-AU 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	0.176	47.3	0.0	16.9	64.2	80	-15.8	22.7	-38.5
Horizontal	0.536	21.3	0.0	16.8	38.1	40	-1.9	33.0	-34.9
Horizontal	0.880	19.3	0.0	16.3	35.6	40	-4.4	28.7	-33.1

#### 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 meters. 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.



#### 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

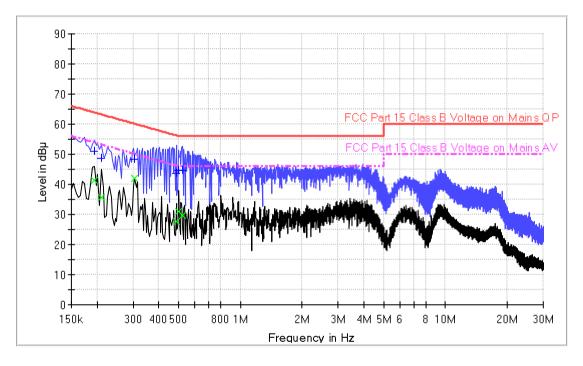
Worst Case Conducted Configuration at 0.306000MHz

Judgement: Passed by 8.0dB margin



Applicant: Ottlite Technologies Inc. Date of Test: July 29, 2021 Model: W13 Adapter Model: BZ36-120250-AU Worst Case Operating Mode: Mode 2 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)
0.194000	51.0	9.000	L1	9.5	12.9	63.9
0.210000	48.7	9.000	L1	9.5	14.5	63.2
0.306000	48.3	9.000	L1	9.5	11.8	60.1
0.486000	43.7	9.000	L1	9.5	12.5	56.2
0.502000	44.8	9.000	L1	9.5	11.2	56.0
0.522000	44.5	9.000	L1	9.5	11.5	56.0

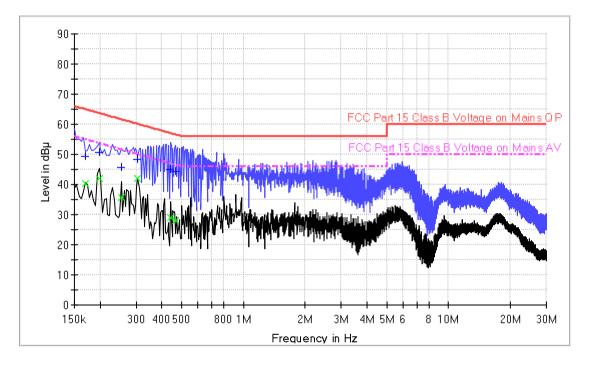
#### Limit and Margin AV

	•					
Frequency (MHz)	Average (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.194000	41.5	9.000	L1	9.5	12.4	53.9
0.210000	35.7	9.000	L1	9.5	17.5	53.2
0.306000	42.1	9.000	L1	9.5	8.0	50.1
0.486000	27.6	9.000	L1	9.5	18.6	46.2
0.502000	31.1	9.000	L1	9.5	14.9	46.0
0.522000	29.6	9.000	L1	9.5	16.4	46.0



Applicant: Ottlite Technologies Inc. Date of Test: July 29, 2021 Model: W13 Adapter Model: BZ36-120250-AU Worst Case Operating Mode: Mode 2 Phase: Neutral

#### 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)
0.170000	49.4	9.000	N	9.5	15.6	65.0
0.198000	50.6	9.000	Ν	9.5	13.1	63.7
0.254000	45.5	9.000	Ν	9.5	16.1	61.6
0.306000	48.4	9.000	Ν	9.5	11.7	60.1
0.442000	44.9	9.000	Ν	9.5	12.1	57.0
0.466000	44.3	9.000	Ν	9.5	12.3	56.6

#### Limit and Margin AV

Frequency (MHz)	Average (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.170000	40.2	9.000	Ν	9.5	14.8	55.0
0.198000	41.9	9.000	Ν	9.5	11.8	53.7
0.254000	35.6	9.000	Ν	9.5	16.0	51.6
0.306000	42.1	9.000	Ν	9.5	8.0	50.1
0.442000	29.0	9.000	Ν	9.5	18.0	47.0
0.466000	28.0	9.000	Ν	9.5	18.6	46.6



#### 5.0 Equipment Photographs

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

#### 6.0 <u>Product Labeling</u>

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

#### 7.0 <u>Technical Specifications</u>

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.



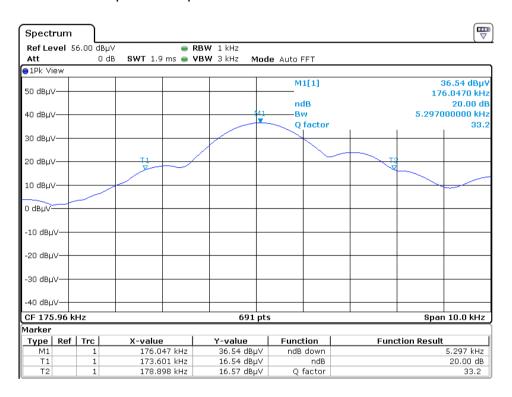
Test Report

#### 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.





#### 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.

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 10kHz for emission below 30MHz and 120kHz for emission from 30MHz to 1000MHz. 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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#### Intertek Report No.: 210609020SZN-001

#### 10.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-13	BiConiLog Antenna	ETS	3142E	00217919	2019-06-10	2022-06-10
SZ185-01	EMI Receiver	R&S	ESCI	100547	2020-12-22	2021-12-22
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	2021-05-18	2023-05-18
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	2021-05-10	2022-05-10
SZ056-06	Signal Analyzer	R&S	FSV 40	101101	2020-12-22	2021-12-22
SZ188-01	Anechoic Chamber	ETS	RFD-F/A- 100	4102	2018-12-15	2021-12-15
SZ062-02	RF Cable	RADIALL	RG 213U		2021-06-01	2021-12-01
SZ062-05	RF Cable	RADIALL	0.04- 26.5GHz		2021-06-01	2021-12-01
SZ062-12	RF Cable	RADIALL	0.04- 26.5GHz		2021-06-01	2021-12-01
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	2020-10-27	2021-10-27
SZ187-02	Two-Line V-Network	R&S	ENV216	100073	2021-05-12	2022-05-12
SZ188-03	Shielding Room	ETS	RFD-100	4100	2020-01-07	2022-01-07
SZ062-16	RF Cable	HUBER+SUHNER	CBL2-BN-1m	110127- 2231000	2020-11-13	2021-11-13