

### MerchSource, LLC.

# **TEST REPORT**

#### **SCOPE OF WORK**

FCC TESTING-1009476, 1012022

#### **REPORT NUMBER**

190730007SZN-003

#### **ISSUE DATE**

[REVISED DATE]

AUGUST 16, 2019

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Intertek Report No.: 190730007SZN-003

#### MerchSource, LLC.

Application For Certification

FCC ID: 2AEVM1009476

**Clock Radio with Wireless Charging** 

Model: 1009476, 1012022

**Transmitter** 

Report No.: 190730007SZN-003

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 [10-1-18]

Prepared and Checked by:	Approved by:
	Vida Von
Leo Li	Kidd Yang
Project Engineer	Technical Supervisor
-	Date: August 16, 2019

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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: DCD - Part 15 Low Power Transmitter Below 1705 kHz										
Deferred grant requested per 47 CF	FR 0.457(d)(1)(ii)? Yes NoX									
	If yes, defer until : date									
Company Name agrees to notify the	e Commission by: date									
of the intended date of announcer issued on that date.  Transition Rules Request per 15.37										
•	C for intentional radiator - the new 47 CFR									
Report prepared by:										
Leo Li 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: MerchSource, LLC.

Applicant Address: 7755 Irvine Center Drive, Suite 100, Irvine, California, United

States

Model: 1009476

FCC ID: 2AEVM1009476

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 Clock Radio with Wireless Charging with WPT function operating at 110-215 kHz and Bluetooth 5.0 (Dual Mode) function operating in 2402-2480MHz. The EUT is powered by DC 7.4V by rechargeable battery or DC 5V/2A through adapter. For more detailed features description, please refer to the user's manual.

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Antenna Type: Integral Antenna(embedded coil antenna)

The Model: 1009166 is the same as the Model: 1011030 in hardware and electrical aspect. The difference in model number serves as marketing strategy.

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 DCD- Part 15 Low Power Transmitter Below 1705 kHz.

For the BT 5.0 BLE mode was tested and demonstrated in report 190730007SZN-001.

For the BT 5.0 BR/EDR mode was tested and demonstrated in report 190730007SZN-002.

For other functions were reported in the SDOC report: 190730007SZN-005.

#### 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).

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The EUT was powered by DC 5V/2A through adapter which powered by AC 120V/60Hz during the test. The test system was pre-scanning tested based on the consideration of following EUT operation mode. Only the worst-case data is shown in the report.

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

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 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

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

USB cable (Shielded, with core)

#### 3.4 Equipment Modification

Any modifications installed previous to testing by MerchSource, LLC. 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.

#### 3.6 Support Equipment List and Description

This product was tested in the following configuration:

Description	Manufacturer	Detail		
Mobile phone (Provided by Intertek)	SAMSUNG	S7		
USB cable (Provided by Applicant)	Provided by Applicant	Shielded, with core, Length 1.2m		
Adapter (Provided by Applicant)	Provided by Applicant	Input: AC 100-240V, 50/60Hz Output: DC 5V/2A		
FM Antenna	Provided by Applicant	Unshielded, 1.0m		

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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  $dB\mu V$ 

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 = 7.4dBCF = 1.6dB

AG = 29.0dB

PD = 0dB

AV = -10dB

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

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.

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4.3 Radiated Spurious Emission

Worst Case Radiated Spurious Emission at 191.990MHz

Judgement: Passed by 8.3dB margin

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Simultaneous transmission was considered during the test.

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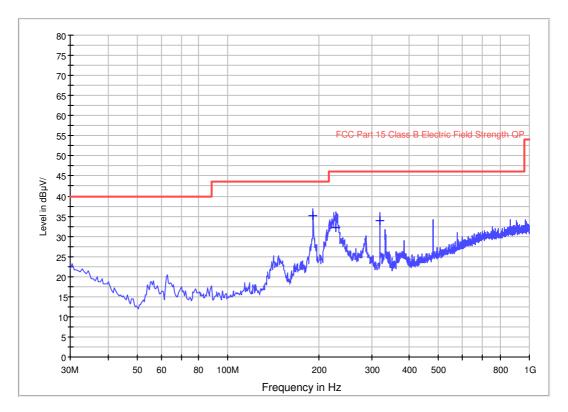
Model: 1009476

Applicant: MerchSource, LLC. Date of Test: 14 August 2019

Worst Case Operating Mode: Mode 4

ANT Polarity: Horizontal

FCC Part 15



Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
191.990000	35.2	1000.0	120.000	0.0	Н	12.3	8.3	43.5
228.850000	32.2	1000.0	120.000	0.0	Н	13.3	13.8	46.0
319.060000	33.8	1000.0	120.000	0.0	Н	16.6	12.2	46.0

#### Remark:

- 1. Corr. = 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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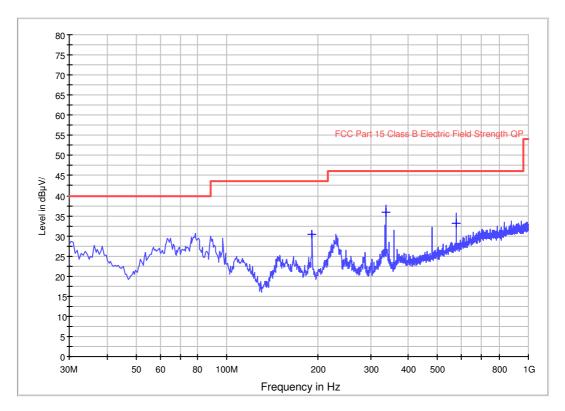
Model: 1009476

Applicant: MerchSource, LLC. Date of Test: 14 August 2019

Worst Case Operating Mode: Mode 4

**ANT Polarity: Vertical** 

FCC Part 15



Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
191.990000	30.5	1000.0	120.000	0.0	V	12.3	13.0	43.5
337.490000	35.9	1000.0	120.000	0.0	V	17.1	10.1	46.0
576.110000	33.1	1000.0	120.000	0.0	V	22.7	12.9	46.0

#### Remark:

- 1. Corr. = 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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Model: 1009476

Applicant: MerchSource, LLC. Date of Test: 5 August 2019

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	0.136	78.3	0.0	7.4	85.7	80	5.7	24.9	-19.2

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	0.607	56.1	0.0	6.5	62.6	40	22.6	31.9	-9.3
Horizontal	0.683	52.6	0.0	6.3	58.9	40	18.9	30.9	-12.0

#### 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.

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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 1.766MHz

Judgement: Passed by 8.9dB margin

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Model: 1009476

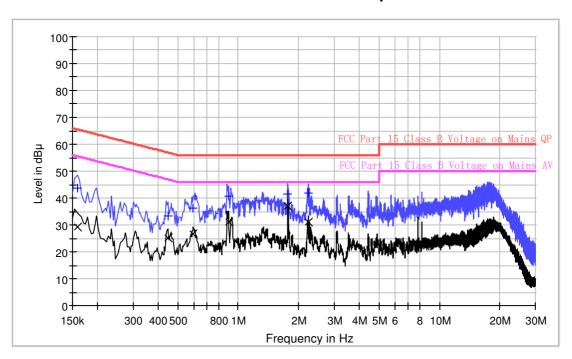
Applicant: MerchSource, LLC. Date of Test: August 1, 2019

Worst Case Operating Mode: Mode 4

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)
0.158000	43.8	9.000	L1	9.7	21.8	65.6
0.446000	33.3	9.000	L1	9.8	23.6	56.9
0.598000	36.1	9.000	L1	9.8	19.9	56.0
0.894000	40.8	9.000	L1	9.8	15.2	56.0
1.766000	41.4	9.000	L1	9.8	14.6	56.0
2.226000	42.0	9.000	L1	9.8	14.0	56.0

**Limit and Margin AV** 

	-					
Frequency (MHz)	Average (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.158000	29.4	9.000	L1	9.7	26.2	55.6
0.446000	25.4	9.000	L1	9.8	21.5	46.9
0.598000	26.7	9.000	L1	9.8	19.3	46.0
0.894000	31.0	9.000	L1	9.8	15.0	46.0
1.766000	37.1	9.000	L1	9.8	8.9	46.0
2.226000	31.2	9.000	L1	9.8	14.8	46.0

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Model: 1009476

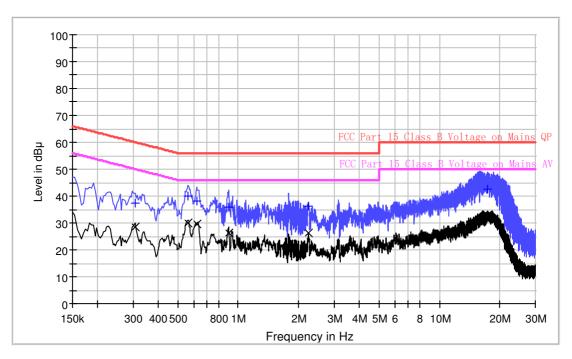
Applicant: MerchSource, LLC. Date of Test: August 1, 2019

Worst Case Operating Mode: Mode 4

Phase: Neutral

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

### Conducted Emissions Pursuant to FCC 15.207: Emissions Requirement



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

a							
Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	
0.306000	37.3	9.000	N	9.8	22.8	60.1	
0.562000	40.1	9.000	N	9.8	15.9	56.0	
0.626000	38.1	9.000	N	9.8	17.9	56.0	
0.894000	36.0	9.000	N	9.8	20.0	56.0	
2.226000	36.1	9.000	N	9.8	19.9	56.0	
17.318000	42.5	9.000	N	10.4	17.5	60.0	

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

Frequency	Average	Bandwidth	Line	Corr.	Margin	Limit
(MHz)	(dBuV)	(kHz)		(dB)	(dB)	(dBuV)
0.306000	28.5	9.000	N	9.8	21.6	50.1
0.562000	29.9	9.000	N	9.8	16.1	46.0
0.626000	29.5	9.000	N	9.8	16.5	46.0
0.894000	26.4	9.000	N	9.8	19.6	46.0
2.226000	26.4	9.000	N	9.8	19.6	46.0
17.318000	32.8	9.000	N	10.4	17.2	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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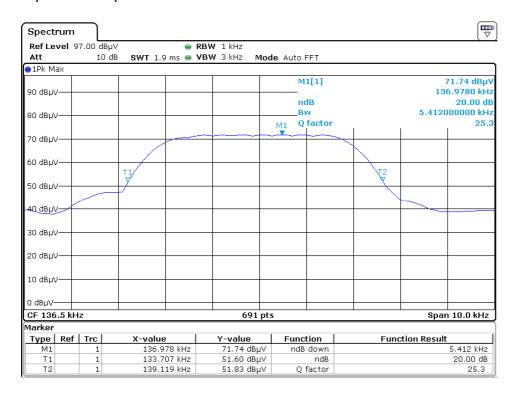


#### 9.0 Miscellaneous Information

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 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-12	BiConiLog Antenna	ETS	3142E	00166158	14-Sep-2018	14-Sep-2019
SZ185-01	EMI Receiver	R&S	ESCI	100547	4-Jan-2019	4-Jan-2020
SZ061-06	Active Loop Antenna	Electro- Metrics	EM-6876	217	24-May-2019	24-May-2020
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	28-May-2019	28-May-2020
SZ056-06	Signal Analyzer	R&S	FSV 40	101101	28-May-2019	28-May-2020
SZ188-01	Anechoic Chamber	ETS	RFD-F/A- 100	4102	15-Dec-2018	15-Dec-2020
SZ062-02	RF Cable	RADIALL	RG 213U		19-Jun-2019	19-Dec-2019
SZ062-05	RF Cable	RADIALL	0.04- 26.5GHz		23-Feb-2019	23-Aug-2019
SZ062-12	RF Cable	RADIALL	0.04- 26.5GHz		23-Feb-2019	23-Aug-2019
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	26-Oct-2018	26-Oct-2019
SZ187-02	Two-Line V- Network	R&S	ENV216	100073	28-May-2019	28-May-2020
SZ188-03	Shielding Room	ETS	RFD-100	4100	16-Jan-2018	16-Jan-2020
SZ062-16	RF Cable	HUBER+SUH NER	CBL2-BN- 1m	110127- 2231000	29-Oct-2018	29-Oct-2019

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