

TTE Technology, Inc. TEST REPORT

SCOPE OF WORK

FCC TESTING–43S425, 43S421, 43S423, 43S427, 43S425-MX, 43S427-MX, 43S425-CA, 43S427-CA, 43S4followed by two character; may be followed by - MX or -CA.

REPORT NUMBER

190328019SZN-001

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05 May 2019 [-----]

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Test Report No.: 190328019SZN-001

TTE Technology, Inc.

Application
For
Certification
FCC ID: W8U43S421

LED TV

Model: 43S425 Additional Models: 43S421, 43S423, 43S427, 43S425-MX, 43S427-MX, 43S425-CA, 43S427-CA, 43S4followed by two character; may be followed by -MX or -CA.

Brand Name: TCL

Computer Peripheral

Report No.: 190328019SZN-001

Prepared and Checked by:	Approved by:				
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Engineer	Technical Supervisor				

Date: 05 May 2019

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MEASUREMENT / TECHNICAL REPORT

TTE Technology, Inc.

MODEL: 43S425

Additional Models: 43S421, 43S423, 43S427, 43S425-MX, 43S427-MX, 43S425-CA, 43S427-CA, 43S4followed by two character; may be followed by -MX or -CA.

FCC ID: W8U43S421

This report concerns (check one:)	Original Grant X	Class I Chang	e
Equipment Type: JBP-Class B Comput	ing Device Periphe	<u>eral</u>	
Deferred grant requested per 47 CFR 0	0.457(d)(1)(ii)?	Yes	No <u>X</u>
	If yes, de	fer until:	date
Company Name agrees to notify the Co	ommission by:		
of the intended date of announcement that date.	of the product so	date that the grant c	an be issued on
Transition Rules Request per 15.37?		Yes	No <u>X</u>
If no, assumed Part 15, Subpart B for Edition] provision.	unintentional radia	tor – the new 47	7 CFR [10-01-17
Report prepared by:			

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List of attached files

Exhibit Type	File Description	Filename
Test Report	Test Report	report.pdf
Test Setup Photo	Radiated photos	radiated photos.pdf
Test Setup Photo	Conducted photos	conducted photos.pdf
External Photo	External Photos	external photos.pdf
Internal Photo	Internal Photos	internal photos.pdf
Block Diagram	Block Diagram	block.pdf
ID Label / Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf
Cover Letter	Confidential Letter	request.pdf
Cover Letter	Letter of Agency	agency.pdf

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EXHIBIT 1 GENERAL DESCRIPTION

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1.1

1.0 **General Description**

Product Description

The Equipment Under Test (EUT) is a LED TV. The device can be used to connect PC by HDMI port. The EUT is powered by AC 120V, 60Hz.

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The EUT contains a module which can be operated in the frequency band of 2412MHz to 2462MHz in 802.11b, 802.11g and 802.11n-HT20 modes, 2422MHz to 2452MHz in 802.11n-HT40 mode, and 5180MHz to 5240MHz, 5745MHz to 5825MHz in 802.11a, 802.11n (20MHz, 40MHz) and 11ac (80MHz) modes.

The Model: 43S421, 43S423, 43S427, 43S425-MX, 43S427-MX, 43S425-CA, 43S427-CA, 43S4followed by two character; may be followed by -MX or -CA. are the same as the Model: 43S425 in hardware aspect. The models are difference in packaging and marketing purpose only.

1.2 Related Submittal(s) Grants

This is an application for certification of a computer peripheral. Other digital functions were reported in the verification report: 190328019SZN-002.

The host contains a WIFI module, which has been granted under the FCC ID: 2AC23-WC1KR2601.

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1.3 Test Methodology

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Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2014). 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.

1.4 Test Facility

The Semi-anechoic chamber and shielding 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, P.R. China. This test facility and site measurement data have been fully placed on file with the FCC (Registration Number: CN1188).

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EXHIBIT 2

SYSTEM TEST CONFIGURATION

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2.0 **System Test Configuration**

Justification

The system was configured for testing in a typical fashion (as a customer

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The device was powered by AC 120V/60Hz during the test. The host device contains a Wi-Fi module which was installed and operating during the test, and only the worst-case data was reported in this report.

would normally use it), and in the confines as outlined in ANSI C63.4 (2014).

For maximizing emissions, 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. The step by step procedure for maximizing emissions led to the data reported in Exhibit 3.0.

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 placed on turn table, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

The frequency ranges from 30MHz to 29.25GHz was searched for spurious emissions from the device. Only those emissions reported were detected. All other emissions were at least 20 dB below the applicable limits.

2.2 EUT Exercising Software

N/A

2.3 Special Accessories

N/A

2.4 Equipment Modification

Any modifications installed previous to testing by TTE Technology, 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.

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2.5 Measurement Uncertainty

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

2.6 Support Equipment List and Description

This product was tested in the following configuration:

Refer List:

Description	Manufacturer	Model No.
Laptop	DELL	ProBook 430 G1
Laptop	HP	Compaq2510p
Hard Disk	Smart.drive	HD-003
USB Cable	Smart.drive	Unshielded, Length 155cm
USB Memory	SanDisk	SDCZ36-002G-P36
Dummy Load	N/A	N/A
HDMI Cable*3	N/A	UnShielded, Length 180cm
AV Cable	N/A	Unshielded, Length 120cm
AV Cable Adapter	N/A	Unshielded, Length 12cm
Tuner Resister	N/A	75ohm
Remote Controller	TCL	N/A
Headphone	Sony	Unshielded, Length 110cm
Coaxial Cable	N/A	Shielded, Length 500cm
RJ45 Cable	N/A	Shielded, Length 450cm
Optical Cable	N/A	Unshielded, Length 130cm

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EXHIBIT 3

EMISSION RESULTS

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3.0 **Emission Results**

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Data is included worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

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3.1 Field Strength Calculation

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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.

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

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/m

AG = Amplifier Gain 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:

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

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3.2 Field Strength Calculation (cont'd)

Example

Assume a receiver reading of 62.0dBµV is obtained. The antenna factor of 7.4dB/m and cable factor of 1.6dB is added. The amplifier gain of 29dB is subtracted. The net field strength for comparison to the appropriate emission limit is 42dBμV/m. This value in dBμV/m was converted to its corresponding level in µV/m.

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 $RA = 62.0 dB\mu V$ AF = 7.4dB/mCF = 1.6dBAG = 29.0dB

 $FS \ = \ 62 + 7.4 + 1.6 - 29 = 42 dB \mu V/m$

Level in $\mu V/m = Common Antilogarithm [(42dB<math>\mu V/m)/20] = 125.9 \mu V/m$

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3.3 Radiated Emission Configuration Photograph

Worst Case Radiated Emission At 140.1MHz (HDMI In(4K) Mode)

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

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3.4 Radiated Emission Data

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The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgement: Passed by 3.0dB margin (HDMI In(4K) Mode)

TEST PERSONNEL:

Sign on file

Ryan Chen, Engineer
Typed/Printed Name

11 April 2019 Date

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Applicant: TTE Technology, Inc. Date of Test: <u>11 April 2019</u> Worst Case Operating Mode:

Model: 43S425 HDMI In(4K)

Table 1

Radiated Emissions

Below 1GHz

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	78.0	36.8	20.0	12.8	29.6	40.0	-10.4
Horizontal	140.1	46.6	20.0	13.9	40.5	43.5	-3.0
Horizontal	891.4	36.2	20.0	23.9	40.1	46.0	-5.9
Vertical	35.8	41.8	20.0	14.8	36.6	40.0	-3.4
Vertical	49.4	42.9	20.0	13.9	36.8	40.0	-3.2
Vertical	891.4	40.2	20.0	21.0	41.2	46.0	-4.8

Above 1GHz

Polarization	Frequency	Reading	Pre-	Antenna	Net	Limit	Marain	Detector
	(MHz)	(dBµV)	Amp Gain (dB)	Factor (dB)	at 3m (dBµV/ m)	at 3m (dBµV/m)	Margin (dB)	
Horizontal	1563.5	74.7	36.6	24.7	62.8	74.0	11.2	PK
Horizontal	1816.5	69.2	36.3	27.8	60.7	74.0	13.3	PK
Horizontal	3130.4	72.8	36.4	28.9	65.3	74.0	8.7	PK
Horizontal	1563.5	54.7	36.6	24.7	42.8	54.0	11.2	AV
Horizontal	1816.5	50.1	36.3	27.8	41.6	54.0	12.4	AV
Horizontal	3130.4	50.8	36.4	28.9	43.3	54.0	10.7	AV
Vertical	1833.8	66.7	36.3	27.7	58.1	74.0	15.9	PK
Vertical	2078.1	68.2	36.5	28.3	60.0	74.0	14.0	PK
Vertical	3121.8	73.1	36.4	28.5	65.2	74.0	8.8	PK
Vertical	1833.8	49.7	36.3	27.7	41.1	54.0	12.9	AV
Vertical	2078.1	50.7	36.5	28.3	42.5	54.0	11.5	AV
Vertical	3121.8	54.1	36.4	28.5	46.2	54.0	7.8	AV

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NOTES:

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- 1. Quasi-Peak detector is used for frequency up to 1GHz, Peak detector and Average detector are used for frequency from 1GHz to 29.25GHz.
- 2. All measurements were made at 3 meters.
- 3. Negative value in the margin column shows emission below limit.
- 4. All other emissions were at least 20 dB below the applicable limits.

Test Engineer: Ryan Chen

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- 3.5 Conducted Emission at Mains Terminal
- 3.5.1 Conducted Emission Configuration Photograph

Worst Case Conducted Configuration at 0.546 MHz (HDMI In Mode)

For electronic filing, the worst case conducted emission configuration photograph is saved with filename: conducted photos.pdf.

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3.6 Conducted Emission Data

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Judgement: Passed by 17.8 dB margin(HDMI In Mode)

TEST PERSONNEL:

Sign on file

Ryan Chen, Engineer
Typed/Printed Name

11 April 2019 Date

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Test Report

Company: TTE Technology, Inc.

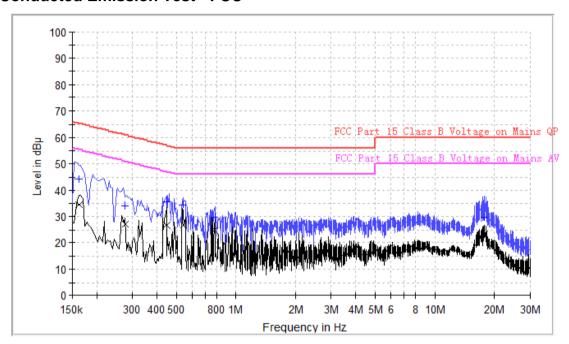
Date of Test: 11 April 2019

Model: 43S425

Operating Mode: HDMI IN

Phase: Live

Conducted Emission Test - FCC



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Result Table QP

Frequency	QuasiPeak	Line	Corr.	Margin	Limit
(MHz)	(dB µ V)		(dB)	(dB)	(dB µ V)
0.162000	44.1	L	9.6	21.3	65.4
0.278000	34.2	L	9.6	26.7	60.9
0.446000	35.4	L	9.6	21.5	56.9
0.542000	34.5	L	9.6	21.5	56.0
0.782000	29.6	L	9.7	26.4	56.0
17.678000	29.6	L	10.2	30.4	60.0

Result Table AV

Frequency	Average	Line	Corr.	Margin	Limit
(MHz)	(dB µ V)		(dB)	(dB)	(dB μ V)
0.162000	34.6	L	9.6	20.8	55.4
0.278000	27.1	L	9.6	23.8	50.9
0.446000	26.6	L	9.6	20.3	46.9
0.542000	26.8	L	9.6	19.2	46.0
0.782000	24.7	L	9.7	21.3	46.0
17.678000	23.5	L	10.2	26.5	50.0

Test Engineer: Ryan Chen

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Test Report

Company: TTE Technology, Inc.

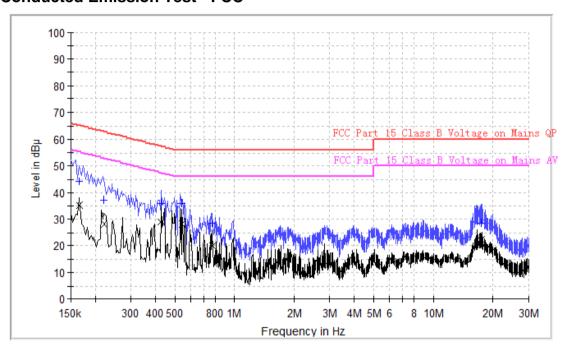
Date of Test: 11 April 2019

Model: 43S425

Operating Mode: HDMI In

Phase: Neutral

Conducted Emission Test - FCC



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Result Table QP

Frequency (MHz)	QuasiPeak (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.166000	44.2	N	9.6	21.0	65.2
0.222000	36.9	N	9.6	25.8	62.7
0.430000	36.1	N	9.6	21.2	57.3
0.546000	35.8	N	9.7	20.2	56.0
0.770000	28.4	N	9.7	27.6	56.0
17.270000	28.6	N	10.1	31.4	60.0

Result Table AV

Frequency (MHz)	Average (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.166000	35.3	N	9.6	19.9	55.2
0.222000	28.3	N	9.6	24.4	52.7
0.430000	29.0	N	9.6	18.3	47.3
0.546000	28.2	N	9.7	17.8	46.0
0.770000	20.1	N	9.7	25.9	46.0
17.270000	22.4	N	10.1	27.6	50.0

Test Engineer: Ryan Chen

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EXHIBIT 4

EQUIPMENT PHOTOGRAPHS

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4.0 **Equipment Photographs**

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For electronic filing, photographs of the tested EUT are saved with filename: external photos.pdf and internal photos.pdf.

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EXHIBIT 5

PRODUCT LABELLING

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5.0 **Product Labelling**

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

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EXHIBIT 6

TECHNICAL SPECIFICATIONS

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6.0 <u>Technical Specifications</u>

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For electronic filing, the block diagram of the tested EUT is saved with filename: block.pdf.

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EXHIBIT 7 INSTRUCTION MANUAL

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7.0 <u>Instruction Manual</u>

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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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EXHIBIT 8

MISCELLANEOUS INFORMATION

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8.0 <u>Miscellaneous Information</u>

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This miscellaneous information includes emission measuring procedure.

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8.1 Emissions Test Procedures

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

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.4 – 2014.

The computer peripheral 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 antenna height and polarization are varied during the testing to search for maximum signal levels. The height of the antenna is varied from one to four meters.

Detector function for radiated emissions are in QP mode from the frequency band 30MHz to 1GHz with RBW setting 120kHz and in PK & AV mode from frequency band 1GHz to 29.25GHz with RBW setting 1MHz. Detector function for conducted emissions are in QP & AV mode and IFBW setting is 9kHz from the frequency band 150kHz to 30MHz.

For radiated emission, the frequency range scanned is 30MHz to 29.25GHz. For line-conducted emissions, the range scanned is 150kHz to 30MHz with RBW setting 9KHz.

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8.2 Emissions Test Procedures (cont'd)

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

Conducted measurements are made as described in ANSI C63.4 – 2014.

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EXHIBIT 9

TEST EQUIPMENT LIST

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9.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-12	Biconilog Antenna	ETS	3142E	001661 58	14-Sep-2018	14-Sep-2019
SZ061-08	Double-Ridged Waveguide Horn Antenna	ETS	3115	000923 46	14-Sep-2018	14-Sep-2019
SZ061-15	Double-Ridged Waveguide Horn Antenna	ETS	3116C- PA	002247 18	25-Oct-2018	25-Oct-2019
SZ056-03	Spectrum Analyzer	R&S	FSP30	101148	05-Jun-2018	05-Jun-2019
SZ185-01	EMI Receiver	R&S	ESCI	100547	04-Jan-2019	04-Jan-2020
SZ181-04	Preamplifier	Agilent	8449B	3008A0 2474	15-Jan-2019	15-Jan-2020
SZ188-01	Anechoic Chamber	ETS	RFD- F/A-100	4102	15-Dec-2018	15-Dec-2020
SZ062-02	RF Cable	RADIALL	RG 213U		25-Dec-2018	25-Jun-2019
SZ062-05	RF Cable	RADIALL	0.04- 26.5GH z		25-Dec-2018	25-Jun-2019
SZ062-12	RF Cable	RADIALL	0.04- 26.5GH z		25-Dec-2018	25-Jun-2019
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	26-Oct-2018	26-Oct-2019
SZ187-01	Two-Line V- Network	R&S	ENV21 6	100072	26-Oct-2018	26-Oct-2019
SZ187-02	Two-Line V- Network	R&S	ENV21 6	100073	04-Jul-2018	04-Jul-2019
SZ188-03	Shielding Room	ETS	RFD- 100	4100	16-Jan-2017	16-Jan-2020
SZ062-16	RF Cable	HUBER+SUHNE R	CBL2- BN-1m		10-Apr-2019	10-Oct-2019

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