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CNAS L0310



# FCC&IC RF Test Report

**Product Name: Smart Phone**

**Model Number: EML-L09**

**Report No.: SYBH(Z-RF)20180131016001-2003**

**FCC ID: QISEML-L09  
IC: 6369A-EMLL09**

**Reliability Laboratory of Huawei Technologies Co., Ltd.**

**(Global Compliance and Testing Center of Huawei Technologies Co., Ltd)**

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## Notice

1. The laboratory has passed the accreditation by China National Accreditation Service for Conformity Assessment (CNAS). The accreditation number is L0310.
2. The laboratory has passed the accreditation by The American Association for Laboratory Accreditation (A2LA). The accreditation number is 2174.01.
3. The laboratory has been recognized by the US Federal Communications Commission (FCC) to perform compliance testing subject to the Commission's Certification rules. The Designation Number is CN1173, and the Test Firm Registration Number is 294140.
4. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 6369A-1.
5. The laboratory (Reliability Lab of Huawei Technologies Co., Ltd) is also named "Global Compliance and Testing Center of Huawei Technologies Co., Ltd", the both names have coexisted since 2009.
6. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
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8. The test report is only valid for the test samples.
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**Applicant:** Huawei Technologies Co., Ltd.  
**Address:** Administration Building, Headquarters of Huawei Technologies Co., Ltd.,  
Bantian, Longgang District, Shenzhen, 518129, P.R.C

**Date of Receipt Sample:** 2018-01-02  
**Start Date of Test:** 2018-01-02  
**End Date of Test:** 2018-02-05

**Test Result:** Pass

<b>Approved by Senior Engineer:</b>	2018-02-05	Roger zhang	<i>Roger Zhang</i>
	Date	Name	Signature

<b>Prepared by:</b>	2018-02-05	Pan Man	<i>Pan man</i>
	Date	Name	Signature



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## 1 General Information

### 1.1 Applied Standard

Applied Rules:	47 CFR FCC Part 2, Subpart J
	47 CFR FCC Part 15, Subpart C
	47 CFR FCC Part 15, Subpart E
	IC RSS-Gen (Issue 4, November 2014)
	IC RSS-247 (Issue2, February 2017)
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02
	FCC KDB 558074 D01 DTS Meas Guidance v04
	FCC KDB 662911 D01 Multiple Transmitter Output v02r01
	ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices

### 1.2 Test Location

Test Location :	Reliability Laboratory of Huawei Technologies Co., Ltd.
Address:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

### 1.3 Test Environment Condition

Temperature:	15 to 30 °C (Ambient)
Relative Humidity:	20 to 85 % (Ambient)
Atmospheric Pressure:	Not applicable

## 2 Test Summary

### 2.1 Measurement Technical Requirements

#### 2.1.1 U-NII (5150-5250, 5250-5350, 5470-5725 MHz, 5725-5850)

Test Item	Band	FCC Rule	IC Rule No.	Requirements	Test Result	Verdict
Emission Bandwidth	5150-5250	15.403(i) 15.407(a) (1)	RSS-gen, §6.6	No limit.	Appendix A	refer to No. SYBH(Z-RF)2 01801310180 01-2003
	5250-5350	15.403(i) 15.407(a) (2)	RSS-gen, §6.6			
	5470-5725	15.403(i) 15.407(a) (2)	RSS-gen, §6.6			
	5725-5850	15.403(i) 15.407(e)	RSS-gen, §6.6 RSS-247, §6.2.4. 1	≥ 500 kHz.		
Occupied Bandwidth	5150-5250	KDB 789033 D02 § D	RSS-gen, §6.6	No limit.	Appendix B	refer to No. SYBH(Z-RF)2 01801310180 01-2003
	5250-5350		RSS-gen, §6.6			
	5470-5725		RSS-gen, §6.6			
	5725-5850		RSS-gen, §6.6 15.407 (e)			
Duty Cycle	5150-5850	--	--	No limit.	Appendix C	refer to No. SYBH(Z-RF)2 01801310180 01-2003
Maximum Output Power	5150-5250	15.407(a) (1) 15.407(a) (4)	RSS-247, §6.2.1 RSS-gen, §6.12	FCC: conducted < 250mW (avg during transmission) IC e.i.r.p .<MIN{200mW, 10dBm +10*lg(OBW)} (avg during transmission)	Appendix D	refer to No. SYBH(Z-RF)2 01801310180 01-2003
	5250-5350	15.407(a)	RSS-247, §6.2.2	conducted		

Test Item	Band	FCC Rule	IC Rule No.	Requirements	Test Result	Verdict
		(2) 15.407(a) (4)	RSS-gen, §6.12	<MIN{250mW,11dBm +10*Ig(EBW)} (avg during transmission)		
	5470-5725	15.407(a) (2) 15.407(a) (4)	RSS-247, §6.2.3 RSS-gen, §6.12	FCC: conducted <MIN{250mW,11dBm +10*Ig(EBW)} (avg during transmission) IC: conducted <MIN{250mW,11dBm +10*Ig(OBW)} (avg during transmission) e.i.r.p <MIN{1W,17dBm+10*I g(OBW)} (avg during transmission)		
	5725-5850	15.407(a) (3)	RSS-247, §6.2.4 RSS-gen, §6.12	conducted < 1W (avg during transmission)		
maximum Power Spectral Density	5150-5250	15.407(a) (1) 15.407(a) (4)	RSS-247, §6.2.1	FCC conducted <11dBm/MHz (avg during transmission) IC: e.i.r.p <10dBm/MHz (avg during transmission)	Appendix E	refer to No. SYBH(Z-RF)2 01801310180 01-2003
	5250-5350	15.407(a) (2) 15.407(a) (4)	RSS-247, §6.2.2	conducted <11dBm/MHz (avg during transmission)		
	5470-5725	15.407(a) (2) 15.407(a) (4)	RSS-247, §6.2.3	conducted <11dBm/MHz (avg during transmission)		
	5725-5850	15.407(a) (3) 15.407(a) (4)	RSS-247, §6.2.4	conducted <30dBm/500KHz (avg during transmission)		



Test Item	Band	FCC Rule	IC Rule No.	Requirements	Test Result	Verdict
Frequency Stability	5150-5250 5250-5350 5470-5725 5725-5850	15.407(g)	RSS-Gen, 6.11	FCC Part 15.407(g) IC RSS-Gen, 6.11	Appendix F	refer to No. SYBH(Z-RF)2 01801310180 01-2003



### 3 Description of the Equipment under Test (EUT)

#### 3.1 General Description

EML-L09 is subscriber equipment in the LTE/ WCDMA/GSM system. The LTE frequency band is Band 1,Band 2,Band 3,Band 4,Band 5, Band 6, Band 7,Band 8, Band 9,Band 12,Band17, Band 18 ,Band 19, Band 20, Band 26, Band 28, Band 32,Band 34,Band 38,Band39, Band 40 and Band 41.The HSUPA/HSDPA/UMTS frequency band is Band I, Band II, Band IV, Band V, Band VI, Band VIII and Band XIX.The GSM/GPRS/EDGE frequency band includes GSM850 and GSM900 and DCS1800 and PCS1900. The Mobile Phone implements such functions as RF signal receiving/transmitting, LTE/ WCDMA /GSM protocol processing, voice, video, MMS service, GPS, NFC and WIFI etc. Externally it provides earphone port (to provide voice service) and dual USIM card interfaces. It also provides Bluetooth module to synchronize data between a PC and the phone, or to use the built-in modem of the phone to access the Internet with a PC, or to exchange data with other Bluetooth devices.

The mobile phone EML-L29 and EML-L09 are LTE/UMTS/GSM mobile phone with Bluetooth. The differences between EML-L29 and EML-L09 are showed in the following table. EML-L09 delete one SIM by software. Other parts of the mobile phone are the same, including the appearance, the antenna, Chipset, Bluetooth mode, Wifi mode, Adapter, Battery, and so on.

	EML-L29	EML-L09
GSM four bands	B2/B3/B5/B8	B2/B3/B5/B8
WCDMA bands	B1/2/4/5/6/8/19	B1/2/4/5/6/8/19
LTE bands	FDD LTE: B1/2/3/4/5/6/7/8/9/12/17/18/19/20/ B26/28/32 TDD LTE: B34/B38/39/40/41(110M,2545-2655)	FDD LTE: B1/2/3/4/5/6/7/8/9/12/17/18/19/20/ B26/28/32 TDD LTE: B34/B38/39/40/41(110M,2545-2655)
FCC bands	GSM850/1900 WB2/B4/B5 LTE B2/4/5/B7/B12/B17/B26/38/B41	GSM850/1900 WB2/B4/B5 LTE B2/4/5/B7/B12/B17/B26/38/B41
SIM card	Two	One

NFC	the same	the same
External camera	the same	the same
internal camera	the same	the same
FLASH	the same	the same
Mainboard	the same	the same
PCB layout	the same	the same
Appearance	the same	the same
Bluetooth mode	the same	the same
WLAN mode	the same	the same
BT/ WLAN antenna	the same	the same
GSM/ WCDMA /LTE antenna	the same	The same
Adapter	the same	the same
Battery	the same	the same
Chipset	the same	the same
Memory	the same	the same
RF Parameter	The same RF Parameter in the same band	The same RF Parameter in the same band
Dimension	the same	the same
Main Frequency NV	The same NV in the same band	The same NV in the same band

Note1: Only 5G WIFI test data included in this report.

Note2: We do not test 5G WIFI data of EML-L09, the test data refer to No. SYBH(Z-RF)20180131018001-2003 of EML-L29(FCC ID: QISEML-L29 & IC: 6369A-EMLL29)















## 3.2 EUT Identity

NOTE: Unless otherwise noted in the report, the functional boards installed in the units shall be selected from the below list, but not means all the functional boards listed below shall be installed in one unit.

### 3.2.1 Board

Board		
Description	Hardware Version	Software Version
Main Board	HL1EMILYM	EML-L09 8.1.0.71(SP9C900)

### 3.2.2 Sub-Assembly

Sub-Assembly			
Sub-Assembly Name	Model	Manufacturer	Description
Adapter	HW-050450B00	Huawei Technologies Co.,Ltd.	Input Voltage: 100V-240V~50/60Hz, 0.75A Output Voltage: 5V  2A OR 4.5V  5A OR 5V  4.5A Rated Power: 10W/22.5W
Adapter	HW-050450E00	Huawei Technologies Co.,Ltd.	Input Voltage: 100V-240V~50/60Hz, 0.75A Output Voltage: 5V  2A OR 4.5V  5A OR 5V  4.5A Rated Power: 10W/22.5W
Adapter	HW-050450U00	Huawei Technologies Co.,Ltd.	Input Voltage: 100V-240V~50/60Hz, 0.75A Output Voltage: 5V  2A OR 4.5V  5A OR 5V  4.5A Rated Power: 10W/22.5W
Adapter	HW-050450A00	Huawei Technologies Co.,Ltd.	Input Voltage: ~100-240V 50/60Hz 0.75A Output Voltage: 5V  2A OR 4.5V  5A OR 5V  4.5A Rated Power: 10W/22.5W
Rechargeable Li-ion	HB396285ECW	Huawei Technologies Co.,Ltd.	Rated capacity: 3320mAh Nominal Voltage:  +3.82V Charging Voltage:  +4.4V

### 3.3 Technical Description

Characteristics	Description	
IEEE 802.11 WLAN Mode Supported	<input checked="" type="checkbox"/> 802.11a (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11n (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11n (40 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11ac (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11ac (40 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11ac (80 MHz channel bandwidth),	
TX/RX Operating Range	All	$f_c = 5000 \text{ MHz} + N * 5 \text{ MHz}$ , where: - $f_c$ = "Operating Frequency" in MHz, - $N$ = "Channel Number".
	5150-5250 MHz (U-NII)	$N = 36$ to $48$ with step of $4$ for the $20 \text{ MHz}$ channel bandwidth. $N = 38$ to $46$ with step of $8$ for the $40 \text{ MHz}$ channel bandwidth. $N = 42$ for the $80 \text{ MHz}$ channel bandwidth.
	5250-5350 MHz (U-NII)	$N = 52$ to $64$ with step of $4$ for the $20 \text{ MHz}$ channel bandwidth. $N = 54$ to $62$ with step of $8$ for the $40 \text{ MHz}$ channel bandwidth. $N = 58$ for the $80 \text{ MHz}$ channel bandwidth.
	5470-5600 MHz (U-NII)(for IC)	$N = 100$ to $116$ with step of $4$ for the $20 \text{ MHz}$ channel bandwidth. $N = 102$ to $110$ with step of $8$ for the $40 \text{ MHz}$ channel bandwidth. $N = 106$ for the $80 \text{ MHz}$ channel bandwidth.
	5470-5650 MHz (U-NII) (for FCC)	$N = 100$ to $128$ with step of $4$ for the $20 \text{ MHz}$ channel bandwidth. $N = 102$ to $126$ with step of $8$ for the $40 \text{ MHz}$ channel bandwidth. $N = 106$ to $122$ with step of $16$ for the $80 \text{ MHz}$ channel bandwidth.
	5650-5725 MHz (U-NII)	$N = 132$ to $144$ with step of $4$ for the $20 \text{ MHz}$ channel bandwidth. $N = 134$ to $142$ with step of $8$ for the $40 \text{ MHz}$ channel bandwidth. $N = 138$ for the $80 \text{ MHz}$ channel bandwidth.
	5725-5850MHz( U-NII)	$N = 149$ to $165$ with step of $4$ for the $20 \text{ MHz}$ channel bandwidth. $N = 151$ to $159$ with step of $8$ for the $40 \text{ MHz}$ channel bandwidth. $N = 155$ for the $80 \text{ MHz}$ channel bandwidth.
Modulation Type	BPSK/QPSK/16QAM/64QAM (OFDM).	
Emission Designator	U-NII(5150-5250, 5250-5350, 5470-5725, 5725-5850)	17M7G7D (for 802.11a mod), 18M6G7D (for 802.11n 20 MHz mode), 36M7G7D (for 802.11n 40 MHz mode), 18M5G7D (for 802.11ac 20 MHz mode) 36M7G7D (for 802.11ac 40 MHz mode) 76M2G7D (for 802.11ac 80 MHz mode)
TPC	<input type="checkbox"/> Supported, <input checked="" type="checkbox"/> Not Supported	
Antenna	Type	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
	Ports	<input checked="" type="checkbox"/> Ant 1, <input checked="" type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3, <input type="checkbox"/> Ant 4
	Smart System	<input checked="" type="checkbox"/> SISO (for 802.11a/n/ac), <input checked="" type="checkbox"/> CDD (for 802.11a), <input checked="" type="checkbox"/> MIMO (for 802.11n/ac), <input type="checkbox"/> Diversity (for 802.11a) : Tx & Rx
	Gain	Ant1:-1.45dBi (per antenna port, max.)



Characteristics	Description			
		Ant2:1.41dBi (per antenna port, max.)		
	Remark	When the EUT is put into service, the practical maximum antenna gain should NOT exceed the value as described above.		
Power Supply	Type	<input checked="" type="checkbox"/> AC/DC Adapter	<input type="checkbox"/> PoE:	<input type="checkbox"/> Other:

## 4 General Test Conditions / Configurations

### 4.1 Test Modes

NOTE: Worst cases for each IEEE 802.11 mode are selected to perform tests.

Test Mode	Test Modes Description
11A	IEEE 802.11a with data rate of 6 Mbps using SISO mode.
11A-CDD	IEEE 802.11a with data rate of 6 Mbps using CDD mode.
11N20	IEEE 802.11n with data rate of MCS0 and bandwidth of 20 MHz using SISO mode.
11N20m	IEEE 802.11n with data rate of MCS8 and bandwidth of 20 MHz using MIMO mode.
11N40	IEEE 802.11n with data rate of MCS0 and bandwidth of 40 MHz using SISO mode.
11N40m	IEEE 802.11n with data rate of MCS8 and bandwidth of 40 MHz using MIMO mode.
11AC20	IEEE 802.11ac with data rate of MCS0 and bandwidth of 20 MHz using SISO mode.
11AC20m	IEEE 802.11ac with data rate of MCS8 and bandwidth of 20 MHz using MIMO mode.
11AC40	IEEE 802.11ac with data rate of MCS0 and bandwidth of 40 MHz using SISO mode.
11AC40m	IEEE 802.11ac with data rate of MCS8 and bandwidth of 40 MHz using MIMO mode.
11AC80	IEEE 802.11ac with data rate of MCS0 and bandwidth of 80 MHz using SISO mode.
11AC80m	IEEE 802.11ac with data rate of MCS8 and bandwidth of 80 MHz using MIMO mode.

### 4.2 EUT Configurations

#### 4.2.1 General Configurations

Configuration	Description
Test Antenna Ports	Until otherwise specified, <ul style="list-style-type: none"><li>• All TX tests are performed at all TX antenna ports of the EUT, and</li><li>• All RX tests are performed at all RX antenna ports of the EUT.</li></ul>
Multiple RF Sources	Other than the tested RF source of the EUT, other RF source(s) are disabled or shutdown during measurements.

## 4.2.2 Customized Configurations

### 4.2.2.1 U-NII

Test Mode	Test Channel	Antenna Port	Power Conf., per Port	Duty cycle [%]
11A	36/64/100/140/144	Ant 1	12.5	93
	165		14.5	
	others		15	
	36	Ant 2	7.5	
	others		8	
11A CDD	36/64/100/140/144	Ant 1	12.5	93
	165		14.5	
	others		15	
	36	Ant 2	7.5	
	others		8	
11N20	36/64//100140/144	Ant 1	12.5	93
	165		14	
	others		15	
	All	Ant 2	8	
11N20M	36/64/100/140/144	Ant 1	12.5	87
	165		14	
	others		15	
	All	Ant 2	8	
11N40	38/102/142	Ant 1	10	92
	62		9.5	
	159		12	
	others		13	
	All	Ant 2	6	91
11N40M	38/102/142	Ant 1	10	87
	62		9.5	
	159		12	
	others		13	
	All	Ant 2	6	87
11AC20	36/100/140/144	Ant 1	12.5	93
	165		14	
	others		15	
	All	Ant 2	8	93
11AC20M	36/100/140/144	Ant 1	12.5	88

	165	Ant 2	14	87
	others		15	
	All		8	
11AC40	38/62/102/142	Ant 1	10	91
	159		12	
	others		13	
	38	Ant 2	5.5	92
	others		6	
11AC40M	38/62/102/142	Ant 1	10	88
	159		12	
	others		13	
	38	Ant 2	5.5	87
	others		6	
11AC80	42/58/106/138	Ant 1	9.5	91
	others		11.5	
	42/58/138	Ant 2	7.5	92
	106		7	
	others		4.5	
11AC80M	42/58/106/138	Ant 1	9.5	86
	others		11.5	
	42/58/138	Ant 2	7.5	
	106		7	
	others		4.5	



### 4.3 Test Environments

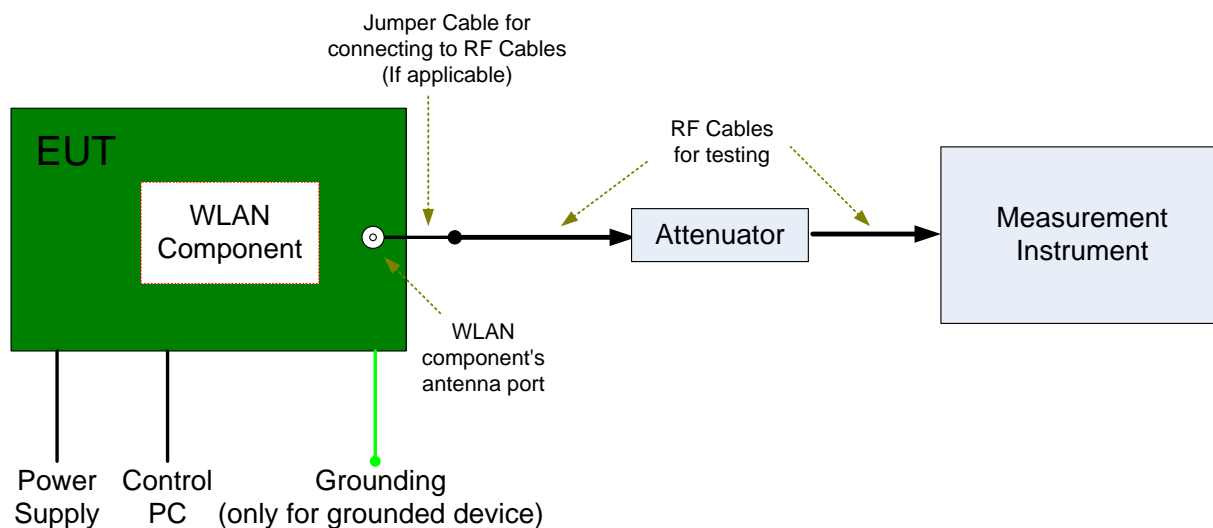
Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Temperature	TN	Ambient
Voltage	VL	3.6V
	VN	3.82V
	VH	4.35V

NOTE: VL= lower extreme test voltage  
VN= nominal voltage  
VH= upper extreme test voltage  
TN= normal temperature

## 4.4 Test Setups

### 4.4.1 Test Setup 1

The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



## 4.5 Test Conditions

### 4.5.1 U-NII

Test Case	Test Conditions	
	Configuration	Description
Emission Bandwidth (EBW)	Meas. Method	FCC KDB 789033 §C).
	Test Env.	NTNV
	Test Setup	Test Setup 1
	EUT Conf.	All EUT conf. with Tx modes.
Occupied Bandwidth (OBW)	Meas. Method	FCC KDB 789033 §D).
	Test Env.	NTNV
	Test Setup	Test Setup 1
	EUT Conf.	All EUT conf. with Tx modes.
Maximum Conducted Output Power	Meas. Method	FCC KDB 789033 §E)2)b) Method SA-1 and d) Method SA-2.
	Test Env.	NTNV
	Test Setup	Test Setup 1
	EUT Conf.	All EUT conf. with Tx modes.
Maximum Power Spectral Density	Meas. Method	FCC KDB 789033 §F).
	Test Env.	NTNV
	Test Setup	Test Setup 1
	EUT Conf.	All EUT conf. with Tx modes.
Frequency Stability	Meas. Method	15.407(g) Frequency Stability
	Test Env.	(1)VL, VN and VH of Rated Voltage at Ambient Climate. (2) -5 °C,5°C,15°C,25°C,35°C,45°C,50°C
	Test Setup	Test Setup 1
	EUT Conf.	Ch.36,Ch.165

## 5 Main Test Instruments

NOTE: Unless otherwise specified, the calibration intervals for test instruments were Annual (per year). The other intervals, if applicable, are marked with (##y), which denotes ## years calibration interval.

Main Test Equipments					
Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal- Due
Power supply	KEITHLEY	2303	000500E	2017/5/31	2018/5/30
Wireless Communication Test set	Agilent	N4010A	MY49081592	2017/7/31	2018/7/30
Universal Radio Communication Tester	R&S	CMU200	110932	2017/5/2	2018/5/1
Spectrum Analyzer	Agilent	N9020A	MY52090652	2017/7/10	2018/7/9
Universal Radio Communication Tester	R & S	CMW500	126854	2017/10/19	2018/10/18
Signal Analyzer	R&S	FSQ31	200021	2017/7/31	2018/7/30
Spectrum Analyzer	Agilent	N9030A	MY49431698	2017/7/31	2018/7/30
Temperature Chamber	WEISS	WKL64	56246002940010	2017/12/13	2018/12/12
Signal generator	Agilent	E8257D	MY49281095	2017/7/31	2018/7/30
Vector Signal Generator	R&S	SMU200A	104162	2017/7/31	2018/7/30
Test receiver	R&S	ESU26	100387	2017/2/21	2018/2/20
Test receiver	R&S	ESCI	101163	2017/2/21	2018/2/20
Spectrum analyzer	R&S	FSU3	200474	2017/2/21	2018/2/20
Spectrum analyzer	R&S	FSU43	100144	2017/2/21	2018/2/20
LOOP Antennas(9kHz-30MHz)	R&S	HFH2-Z2	100262	2017/4/25	2019/4/25
LOOP Antennas(9kHz-30MHz)	R&S	HFH2-Z2	100263	2017/4/25	2019/4/25
Trilog Broadband Antenna (30M~3GHz)	SCHWARZBECK	VULB 9163	9163-490	2017/3/29	2019/3/29
Trilog Broadband Antenna (30M~3GHz)	SCHWARZBECK	VULB 9163	9163-521	2017/4/9	2019/4/9
Double-Ridged Waveguide Horn Antenna (1G~18GHz)	R&S	HF907	100304	2017/5/27	2019/5/27



Pyramidal Horn Antenna(18GHz-26.5GHz)	ETS-Lindgren	3160-09	206665	2017/3/24	2018/3/23
Artificial Main Network	R&S	ENV4200	100134	2017/5/15	2018/5/14
Line Impedance Stabilization Network	R&S	ENV216	100382	2017/5/15	2018/5/14
Power Detecting & Sampling Unit	R&S	OSP-B157	100914	2017/7/31	2018/7/30
<b>Software Information</b>					
Test Item	Software Name		Manufacturer		Version
RE	EMC32		R&S		V9.25.0
CE	EMC32		R&S		V9.25.0

END