FCC Test Report

APPLICANT : Lenovo(Shanghai) Electronics

Technology Co., Ltd.

EQUIPMENT: Portable Tablet Computer

BRAND NAME : Lenovo

MODEL NAME : Lenovo TB-7305F

FCC ID : 057TB7305F

STANDARD : 47 CFR Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on Jun. 15, 2019 and testing was completed on Jul. 01, 2019. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Tason Jia

Reviewed by: Jason Jia / Supervisor

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

Sporton International (Kunshan) Inc.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC961501	Rev. 01	Initial issue of report	Aug. 01, 2019

Sporton International (Kunshan) Inc.

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	10.03 dB at
					0.481 MHz
					Under limit
3.2	15.109	15.109 Radiated Emission	< 15.109 limits	PASS	3.27 dB at
					480.080 MHz

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1. General Description

1.1. Applicant

Lenovo(Shanghai) Electronics Technology Co., Ltd.

Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

Report No.: FC961501

1.2. Manufacturer

Lenovo PC HK Limited

23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	Portable Tablet Computer
Brand Name	Lenovo
Model Name	Lenovo TB-7305F
FCC ID	O57TB7305F
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth BR / EDR / LE GNSS
HW Version	Lenovo Tablet TB-7305F
SW Version	TB-7305F_RF01_190604
EUT Stage	Identical Prototype

Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- There are five types of EUT, the difference could be referred to the product equality declaration which is exhibit separately. According to the difference, we choose the sample 1 to full test and the sample 2 is verified the difference.

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1.4. Product Specification of Equipment Under Test

Standards-related Product Specification						
Tx Frequency	802.11b/g/n: 2412 MHz ~ 2462 MHz					
	Bluetooth: 2402 MHz ~ 2480 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz					
Rx Frequency	Bluetooth: 2402 MHz ~ 2480 MHz					
, ,	GNSS: 1559 MHz ~ 1610 MHz					
	WLAN: PIFA Antenna					
Antenna Type	Bluetooth : PIFA Antenna					
	GNSS: PIFA Antenna					
	802.11b: DSSS (DBPSK / DQPSK / CCK)					
	802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)					
	Bluetooth LE : GFSK					
Type of Modulation	Bluetooth (1Mbps) : GFSK					
	Bluetooth (2Mbps) : π/4-DQPSK					
	Bluetooth (3Mbps) : 8-DPSK					
	GNSS: BPSK					

Note: GNSS= GPS

1.5. Modification of EUT

No modifications are made to the EUT during all test items.

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1.6. Test Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.						
	No. 1098, Pengxi North Road, Kunshan Economic Development Zone						
Test Site Location	Jiangsu Province 215300 People's Republic of China						
Test Site Location	TEL: +86-512-57900158						
	FAX: +86-512-57900958						
	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.				
Test Site No.	CO01-KS	CN1257	314309				
	03CH06-KS	CN1257	314309				

1.7. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart B
- ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
	Mode 1: Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Earphone + Battery 1 + USB Cable 1(Charging from Adapter 1) for Sample 1
	Mode 2: Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Earphone + Battery 1 + USB Cable 2(Charging from Adapter 2) for Sample 1
	Mode 3: Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Earphone + Battery 1 + USB Cable 2(Charging from Adapter 2) for Sample 1
AC Conducted	Mode 4: Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + Battery 1 + USB Cable 1(Data Link with Notebook) for Sample 1
Emission	Mode 5: Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + Battery 1 + USB Cable 2(Data Link with Notebook) for Sample 1
	Mode 6: Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Earphone + Battery 2 + USB Cable 2(Charging from Adapter 2) for Sample 2
	Mode 7: Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 2(Charging from Adapter 2) for Sample 2
	Mode 8: Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + Battery 2 + USB Cable 1(Data Link with Notebook) for Sample 2

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Mode 1: Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Earphone + Battery 1 USB Cable 1(Charging from Adapter 1) for Sample 1
Mode 2: Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Earphone + Battery 1 USB Cable 2(Charging from Adapter 2) for Sample 1
Mode 3: Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Earphone Battery 1 + USB Cable 2(Charging from Adapter 2) for Sample 1
Mode 4: Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + Battery 1 + USl Cable 1(Data Link with Notebook) for Sample 1
Mode 5: Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + Battery 1 + USl Cable 2(Data Link with Notebook) for Sample 1
Mode 6: Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Earphone + Battery 2 USB Cable 2(Charging from Adapter 2) for Sample 2
Mode 7: Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Earphone + Battery 2 USB Cable 2(Charging from Adapter 2) for Sample 2
Mode 8: Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + Battery 2 + USI Cable 1(Data Link with Notebook) for Sample 2

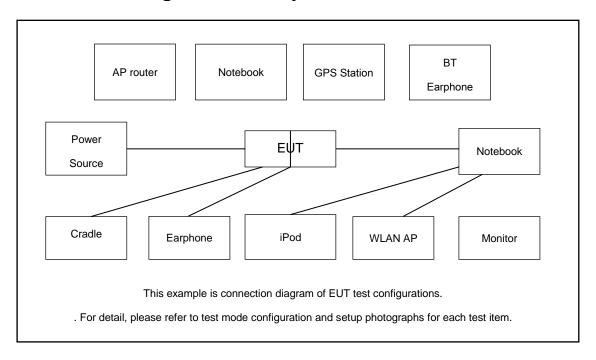
Remark:

- 1. The worst case of AC is mode 7; only the test data of this mode is reported.
- 2. The worst case of RE is mode 8; only the test data of this mode is reported.
- 3. Data Link with Notebook means data application transferred mode between EUT and Notebook.

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2.2. Connection Diagram of Test System



2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	lodel Name FCC ID D		Power Cord	
1.	Vector Signal Generator	R&S	SMBV100A	258305	N/A	Unshielded,1.8m	
2.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded,1.8m	
3.	WLAN AP	TP-LINK	TL-WDR5600	N/A	N/A	Unshielded,1.8m	
4.	WLAN AP	ASUS	AC66U	N/A	N/A	Unshielded,1.8m	
5.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A	
6.	Bluetooth Earphone	Xiaomi	LYEJ02LM	N/A	N/A	N/A	
7.	Earphone	Lenovo	P121	N/A	Unshielded,1.2m	N/A	
8.	Notebook	Lenovo	G480	N/A	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m	
9.	Notebook	Thimnkpad	PF034R7N	N/A	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m	
10.	SD Card	Kingston	8GB	N/A	N/A	N/A	
11.	SD Card	SanDisk	Uitra	N/A	N/A	N/A	
12.	iPod	Apple	A1199	Fcc DoC	Unshielded,1.0m	N/A	

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2.4. EUT Operation Test Setup

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Data application is transferred between notebook and EUT via USB cable.
- 2. Turn on camera to capture images.
- 3. Turn on MPEG4 function.
- 4. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.

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3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

<Class B Limit>

Frequency of emission	Conducted limit (dBuV)				
(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

^{*}Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

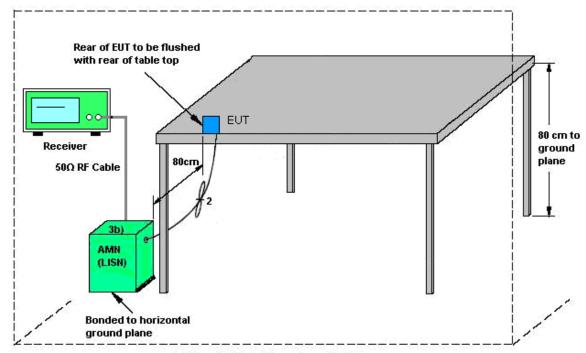
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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3.1.4 Test Setup



AMN = Artificial mains network (LISN)

AE = Associated equipment

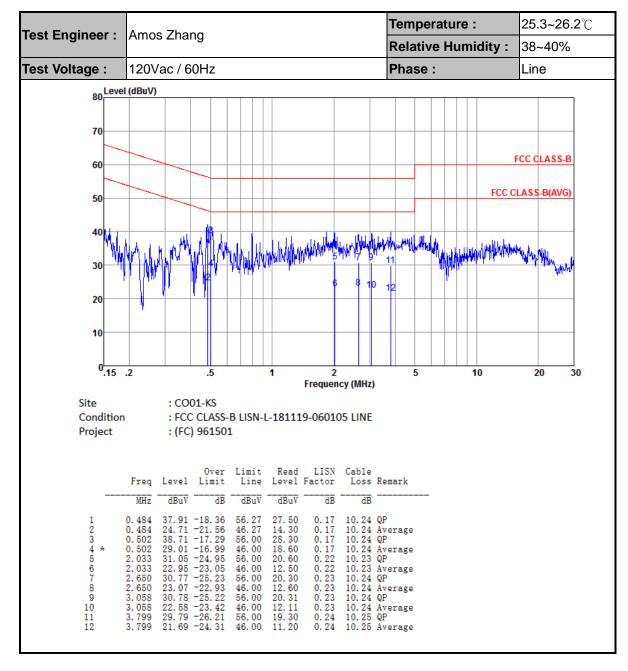
EUT = Equipment under test

ISN = Impedance stabilization network

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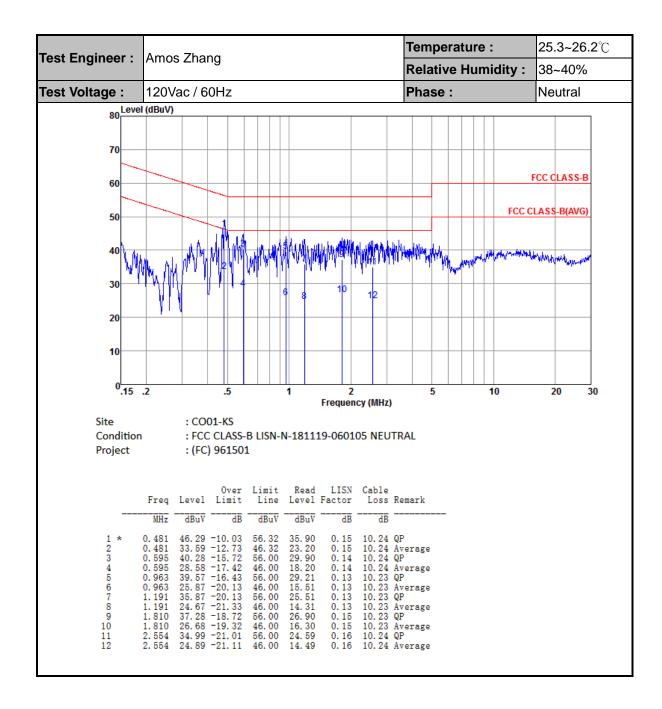
3.1.5 Test Result of AC Conducted Emission



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3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class B Limit>

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

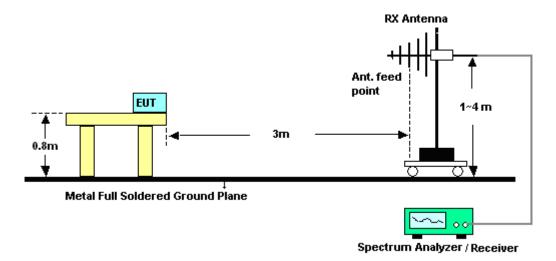
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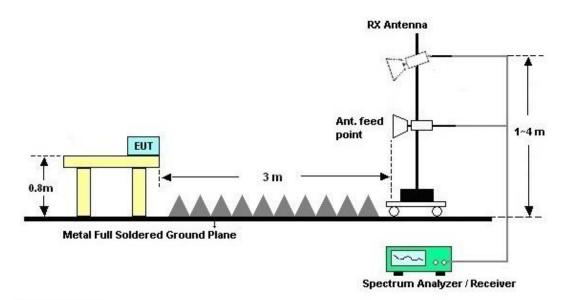
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

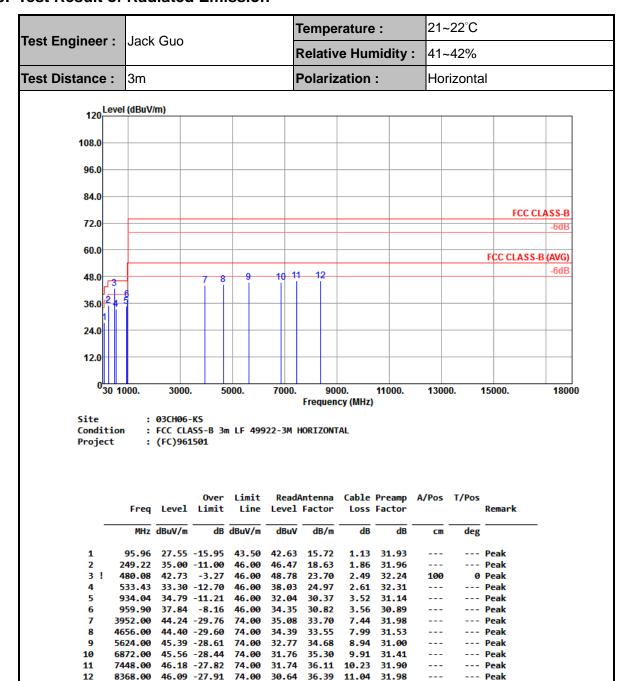


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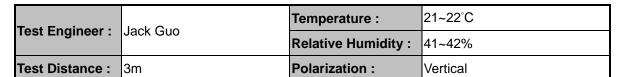
3.2.5. Test Result of Radiated Emission

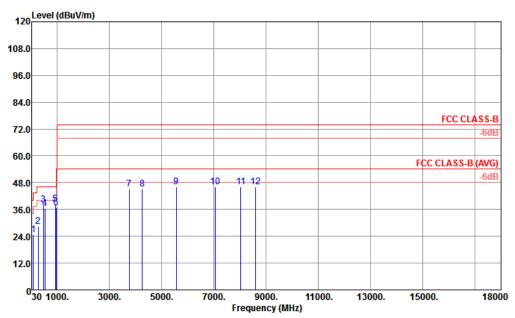


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: 03CH06-KS

Site Condition : FCC CLASS-B 3m LF 49922-3M VERTICAL : (FC)961501

Project

	Frea	Level		Limit Line		Antenna Factor				T/Pos	Remark
		dBuV/m		dBuV/m	dBuV		dB	dB			
	MHZ	abuv/m	ав	abuv/m	abuv	ab/m	ав	ав	cm	deg	
1	95.96	24.72	-18.78	43.50	39.80	15.72	1.13	31.93			Peak
2	276.38	28.49	-17.51	46.00	39.57	19.02	1.92	32.02			Peak
3	480.08	38.20	-7.80	46.00	44.25	23.70	2.49	32.24			Peak
4	531.49	36.33	-9.67	46.00	41.12	24.92	2.60	32.31			Peak
5	934.04	38.49	-7.51	46.00	35.74	30.37	3.52	31.14	100	0	Peak
6	959.90	36.81	-9.19	46.00	33.32	30.82	3.56	30.89			Peak
7	3760.00	45.06	-28.94	74.00	36.30	33.60	7.18	32.02			Peak
8	4272.00	45.00	-29.00	74.00	35.46	33.69	7.71	31.86			Peak
9	5568.00	46.00	-28.00	74.00	33.51	34.61	8.90	31.02			Peak
10	7072.00	46.11	-27.89	74.00	32.01	35.42	10.01	31.33			Peak
11	8032.00	46.12	-27.88	74.00	31.03	36.13	11.00	32.04			Peak
12	8608.00	46.25	-27.75	74.00	30.21	36.43	11.44	31.83			Peak

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 16, 2019	Jun. 29, 2019	Apr. 15, 2020	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 12, 2018	Jun. 29, 2019	Oct. 11, 2019	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Nov. 19, 2018	Jun. 29, 2019	Nov. 18, 2019	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2018	Jun. 29, 2019	Oct. 11, 2019	Conduction (CO01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz;M ax 30dBm	Oct. 12, 2018	Jul. 01, 2019	Oct. 11, 2019	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44GHz	Oct. 09, 2018	Jul. 01, 2019	Oct. 08, 2019	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 28, 2018	Jul. 01, 2019	Dec. 27, 2019	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 20, 2018	Jul. 01, 2019	Oct. 19, 2019	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2019	Jul. 01, 2019	Jan. 04, 2020	Radiation (03CH06-KS)
Amplifier	MITEQ	TTA1840-35-H G	2014749	18~40GHz	Jan. 14, 2019	Jul. 01, 2019	Jan. 13, 2020	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2018	Jul. 01, 2019	Aug. 05, 2019	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5G Hz	Apr. 15, 2019	Jul. 01, 2019	Apr. 14, 2020	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jul. 01, 2019	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 01, 2019	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 01, 2019	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required

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5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	2.9 dB	
of 95% (U = 2Uc(y))	2.9 UD	

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	5.0 dB
of 95% (U = 2Uc(y))	5.0 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence	5.0 dB
of 95% (U = 2Uc(y))	5.0 dB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

5.0 dB

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