FCC TEST REPORT

FOR

Qingdao Hisense Intelligent Commercial System Co., Ltd.

Tablet POS

Test Model: HM388

Prepared for	:	Qingdao Hisense Intelligent Commercial System Co., Ltd.
Address	:	Bldg 3, 151 Zhuzhou Lu, Laoshan, Qingdao, China

Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	:	1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China
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Date of receipt of test sample	:	Aug 01, 2016
Number of tested samples	:	1
Serial number	:	16072534
Date of Test	:	Aug 01, 2016~Aug 16, 2016
Date of Report	:	Aug 16, 2016

FCC TEST REPORT
FCC CFR 47 PART 15 C (15.225)-2015

Report Reference No.	**:**	**LCS1608010043E**
Date of Issue	:	Aug 16, 2016
Testing Laboratory Name.....	**:**	**Shenzhen LCS Compliance Testing Laboratory Ltd.**
Address	:	1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China
Testing Location/ Procedure.....	:	Full application of Harmonised standards ■ Partial application of Harmonised standards ☐ Other standard testing method ☐
**Applicant's Name ..... **	**:**	**Qingdao Hisense Intelligent Commercial System Co., Ltd.**
Address	:	Bldg 3, 151 Zhuzhou Lu, Laoshan, Qingdao, China
Test Specification		
Standard	:	FCC CFR 47 PART 15 C(15.225)-2015
**Test Report Form No..... **	**:**	LCSEMC-1.0
TRF Originator	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF	:	Dated 2011-03

**Test Item Description. ..... **	**:**	**Tablet POS**
Trade Mark	:	Hisense
Test Model	:	HM388
Ratings	:	DC 3.8V by Li-ion battery(4000mAh) Recharged input: 5V,3A by adapter
Result	**:**	**Positive**

Compiled by:	**Supervised by:**	**Approved by:**
Calvin Weng / Administrators	Glin Lu/ Technique principal	Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No. : LCS1608010043E	Aug 16, 2016 Date of issue

Test Model.....	: HM388
EUT.....	: Tablet POS
Applicant.....	**: Qingdao Hisense Intelligent Commercial System Co., Ltd.**
Address.....	: Bldg 3, 151 Zhuzhou Lu, Laoshan, Qingdao, China
Telephone.....	: /
Fax.....	: /
Manufacturer.....	**: Shenzhen Yifang Digital Technology Co Ltd**
Address.....	: Building #23, Zone 5,Baiwangxin industrial Park, Songbai Road, Nanshan district, Shenzhen, China
Telephone.....	: /
Fax.....	: /
Factory.....	: **Shenzhen Yifang Digital Technology Co Ltd**
Address.....	: Building #23, Zone 5,Baiwangxin industrial Park, Songbai Road, Nanshan district, Shenzhen, China
Telephone.....	: /
Fax.....	: /

Test Result	**Positive**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
00	2016-08-16	Initial Issue	Gavin Liang

TABLE OF CONTENTS

1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT	:	Tablet POS
Test Model	:	HM388
Hardware Version	:	PCB/CHT05/V1.3
Software Version	:	BIOS:M883CWP_20160519_020
Power Supply	:	DC 3.8V by Li-ion battery(4000mAh) Recharged input: 5V,3A by adapter
Bluetooth Technology	:	
Frequency Range	:	2402.00-2480.00MHz
Channel Spacing	:	1MHz for Bluetooth V3.0 (DSS) 2MHz for Bluetooth V4.0 (DTS)
Channel Number	:	79 channels for Bluetooth V3.0 (DSS) 40 channels for Bluetooth V4.0 (DTS)
Modulation Type	:	GFSK, π/4-DQPSK, 8-DPSK for Bluetooth V3.0 (DSS) GFSK for Bluetooth V4.0 (DTS)
Bluetooth Version	:	V4.0
Antenna Description	:	PIFA Antenna, 3dBi(Max.)
WIFI(2.4GHz Band)	:	
Operating Frequency	:	2412-2462MHz
Channel Spacing	:	5MHz
Channel Number	:	13 Channel for 20MHz bandwidth(2412~2462MHz)
Modulation Type	:	802.11b: DSSS; 802.11g/n: OFDM
Antenna Description	:	PIFA Antenna, 3 dBi(Max.)
RFID Technology	:	
Operating Frequency	:	13.56MHz
Channel Number	:	1
Modulation Type	:	ASK
Antenna Description	:	Loop Antenna, 3dBi(Max.)

1.2 Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN HONOR ELECTRONIC CO LTD	Adapter for EUT	ADS-25FSG-06 05015EPCU	/	FCC

1.3 External I/O

I/O Port Description	Quantity	Cable
USB Port	1	N/A
HDMI Port	1	N/A
Earphone	1	N/A
DC in port	1	1.5m, unshielded cable

1.4 Description of Test Facility

CNAS Registration Number. is L4595.

FCC Registration Number. is 899208.

Industry Canada Registration Number. is 9642A-1.

VCCI Registration Number. is C-4260 and R-3804.

ESMD Registration Number. is ARCB0108.

UL Registration Number. is 100571-492.

TUV SUD Registration Number. is SCN1081.

TUV RH Registration Number. is UA 50296516-001

1.5 Statement of The Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6 Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	3.10dB	(1)
		30MHz~200MHz	2.96dB	(1)
		200MHz~1000MHz	3.10dB	(1)
		1GHz~26.5GHz	3.80dB	(1)
		26.5GHz~40GHz	3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	1.63dB	(1)
Power disturbance	:	30MHz~300MHz	1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7 Description Of Test Modes

There are three test configurations for the pre-testing:

Configuration 1: Stand-alone(Power supplied by build-in battery DC 3.7V)

Configuration 2: Configured with SWITCHING ADAPTER (Used For Charging)

Configuration 3: Configured with Switching Power Adapter and Docking Station (Used For Charging)
For pre-testing, when performed with the Configuration 2 and Configuration 3, the input Voltage/Frequency AC 120V/60Hz and AC 240V/60Hz were used. We found that the Configuration 3(Input AC 120V/60Hz) was the worst case and used for the full test and recorded in this report.

The EUT was operated in the engineering mode. For the Configuration 1, all X, Y, Z axis had been tested and the worst case was record.

1.8 Summary Of Test Result

Test Items	FCC Rules	Result
Line Conducted Emissions	15.207	PASS
Field Strength of Fundamental Emissions	15.225(a)(b)(c)	PASS
Radiated Emissions	15.225(d) & 15.209	PASS
20dB Bandwidth	2.1049	PASS
Frequency Stability	15.225(e)	PASS
Antenna Requirement	15.203	PASS

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2013, FCC CFR PART 15C 15.225.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.225 under the FCC Rules Part 15 Subpart C.

2.3 General Test Procedures

2.3.1 Conducted Emissions

According to the requirements in Section 6.2 of ANSI C63.10: 2013, AC power-line conducted emissions shall be measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table and the turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10: 2013

3. SYSTEM TEST CONFIGURATION

3.1 Justification

N/A.

3.2 EUT Exercise Software

N/A.

3.3 Special Accessories

N/A.

3.4 Block Diagram/Schematics

Please refer to the report.

3.5 Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

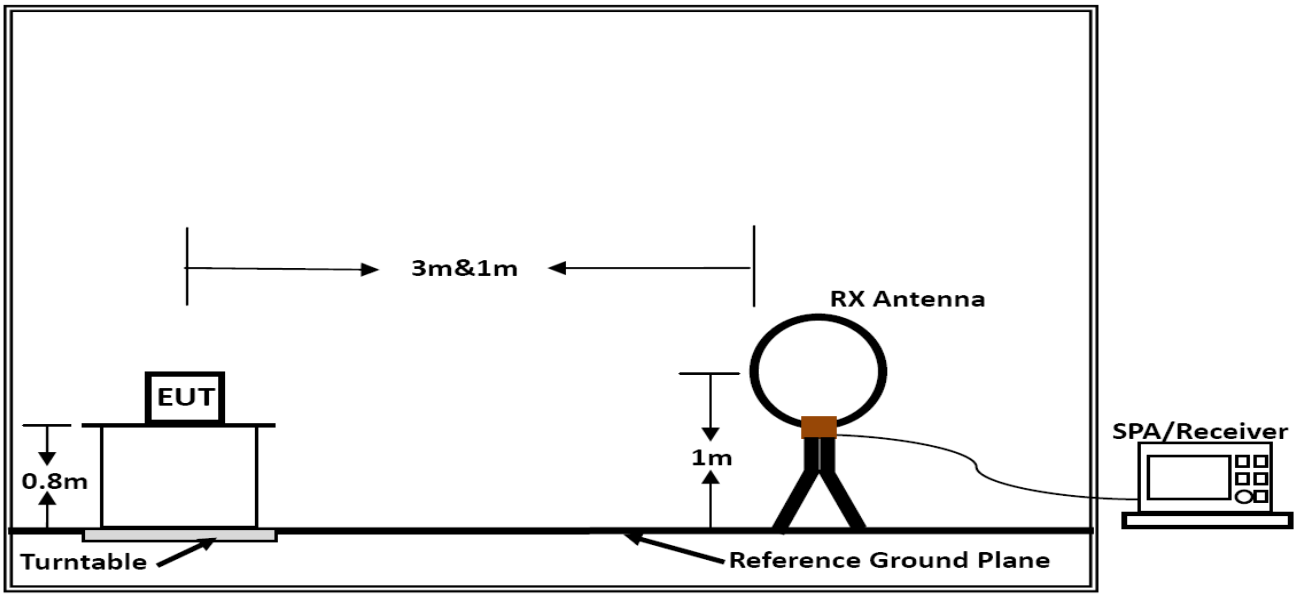
3.6 Test Setup

Please refer to the test setup photo.

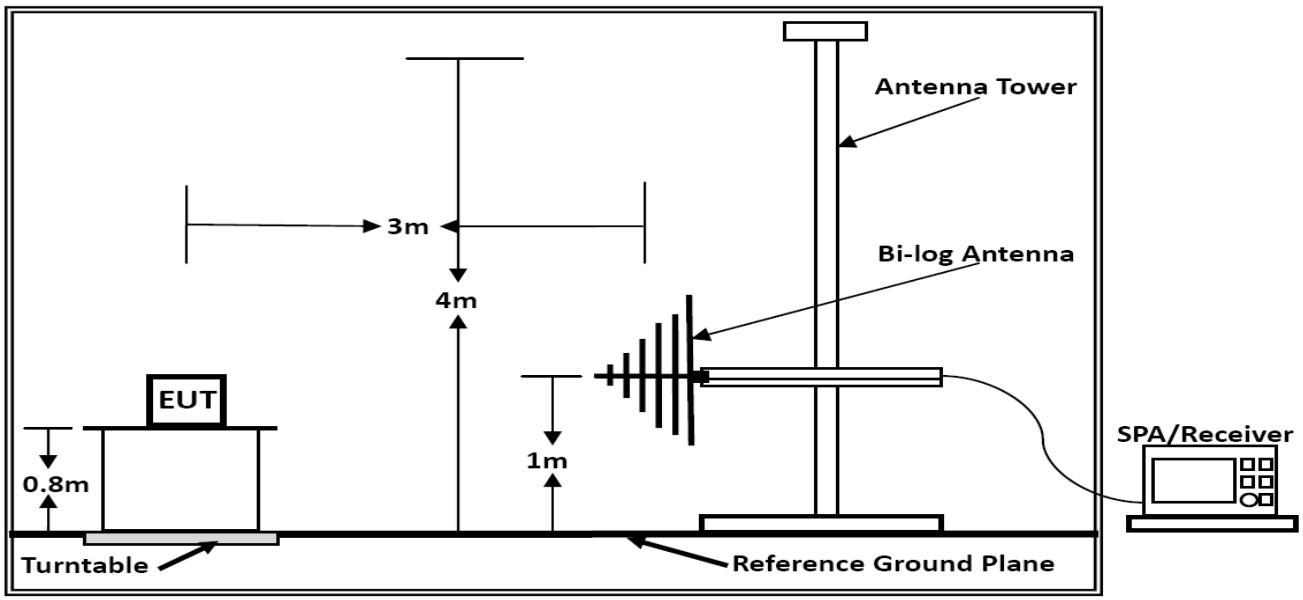
4. RADIATED MEASUREMENT

4.1 Radiated Emission

4.1.1 Block Diagram of Test Setup



Below 30MHz



Below 1GHz

4.1.2 Radiated Emission Limit

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293.	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(\2\)
13.36-13.41			

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

\2\ Above 38.6

Part 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector.

According to Part 15.225 (a), the field strength of any emissions which appear outside of 13.553 ~ 13.567MHz band shall not exceed the general radiated emissions limits.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100**	3
88–216	150**	3
216–960	200**	3
Above 960	500	3

Limit calculation and transfer to 3m distance as showed in the following table:

Frequency (MHz)	Limit (dBuV/m)	Distance (m)
0.009-0.490	20log(2400/F(KHz))+40log(300/3)	3
0.490-1.705	20log(24000/F(KHz))+40log(30/3)	3
1.705-30.0	69.5	3
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

4.1.3 Test Results

PASS.

The test data please refer to following page:

9KHz ~ 30MHz

Note: Only recorded the worst test result for the worst test configuration(Configuration 3(Input AC 120V/60Hz)).

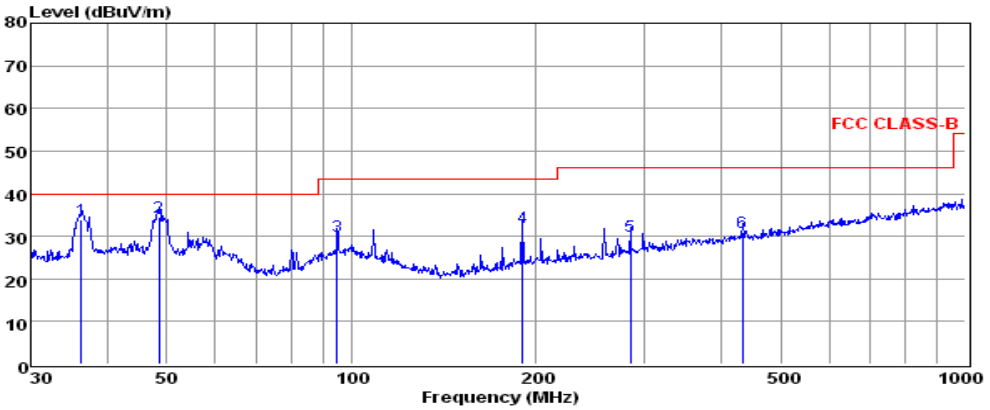
Freq. MHz	Antenna Pol.	Reading dBuV	Factor dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark
0.350	H	--	--	--	96.72	--	--
1.000	H	--	--	--	67.6	--	--
4.69	H	38.53	20.30	58.83	69.5	10.67	Peak
11.05	H	17.30	20.32	37.62	69.5	31.88	Peak
13.56	H	30.55	20.18	50.73	124	51.95	Peak
15.73	H	15.11	20.12	35.23	69.5	34.27	Peak
25.45	H	17.86	19.94	37.80	69.5	31.70	Peak
27.81	H	13.65	19.95	33.60	69.5	35.90	Peak
0.350	V	--	--	--	96.72	--	--
1.000	V	--	--	--	67.6	--	--
4.69	V	37.74	20.30	58.04	69.5	11.46	Peak
11.05	V	18.16	20.32	38.48	69.5	31.02	Peak
13.56	V	36.03	20.18	56.21	124	50.47	Peak
15.73	V	14.69	20.12	34.81	69.5	34.69	Peak
25.45	V	18.36	19.94	38.30	69.5	31.20	Peak
27.81	V	14.48	19.95	34.43	69.5	35.07	Peak

*Note: Factor= Antenna Gain + Cable Loss – Amplifier Gain;

"--" means noise floor.

30MHz ~ 1GHz

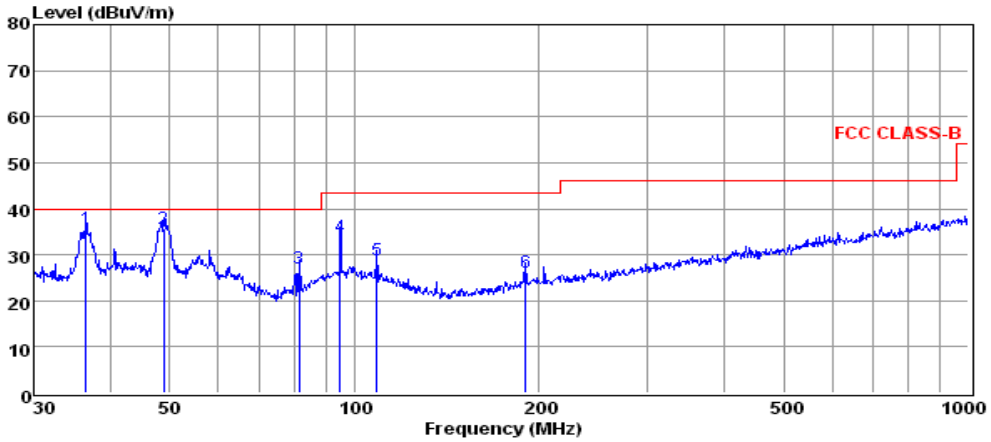
Horizontal:



	Freq MHz	Reading dBuV	CabLos dB	Antfac dB/m	Measured dBuV/m	Limit dBuV/m	Over dB	Remark
1	36.25	20.97	0.41	12.62	34.00	40.00	-6.00	QP
2	48.50	20.79	0.35	13.34	34.48	40.00	-5.52	QP
3	94.76	16.57	0.58	12.79	29.94	43.50	-13.56	QP
4	189.74	20.65	0.86	10.54	32.05	43.50	-11.45	QP
5	284.98	16.26	1.00	12.77	30.03	46.00	-15.97	QP
6	434.07	14.31	1.18	15.53	31.02	46.00	-14.98	QP

Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that ate 20db blow the offficial limit are not reported

Vertical:



	Freq MHz	Reading dBuV	CabLos dB	Antfac dB/m	Measured dBuV/m	Limit dBuV/m	Over dB	Remark
1	36.51	22.62	0.41	12.69	35.72	40.00	-4.28	QP
2	48.84	22.11	0.35	13.32	35.78	40.00	-4.22	QP
3	81.21	17.36	0.65	8.97	26.98	40.00	-13.02	QP
4	94.76	20.52	0.58	12.79	33.89	43.50	-9.61	QP
5	108.65	15.84	0.68	12.37	28.89	43.50	-14.61	QP
6	189.74	14.80	0.86	10.54	26.20	43.50	-17.30	QP

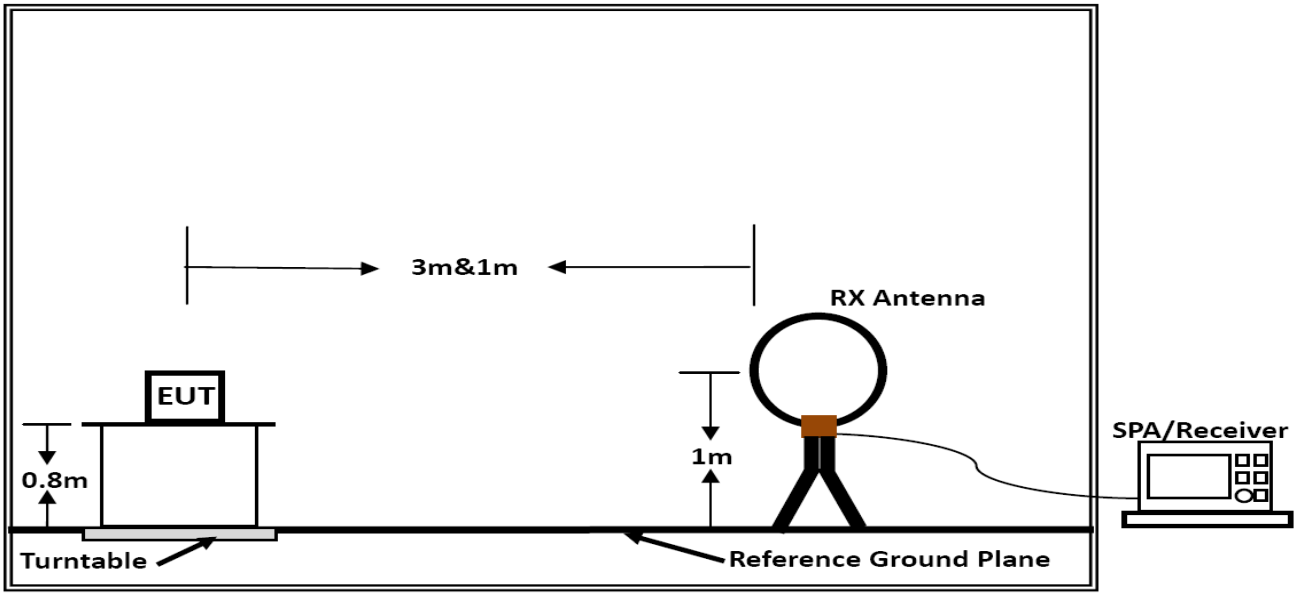
Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that ate 20db blow the offficial limit are not reported

****Note:*

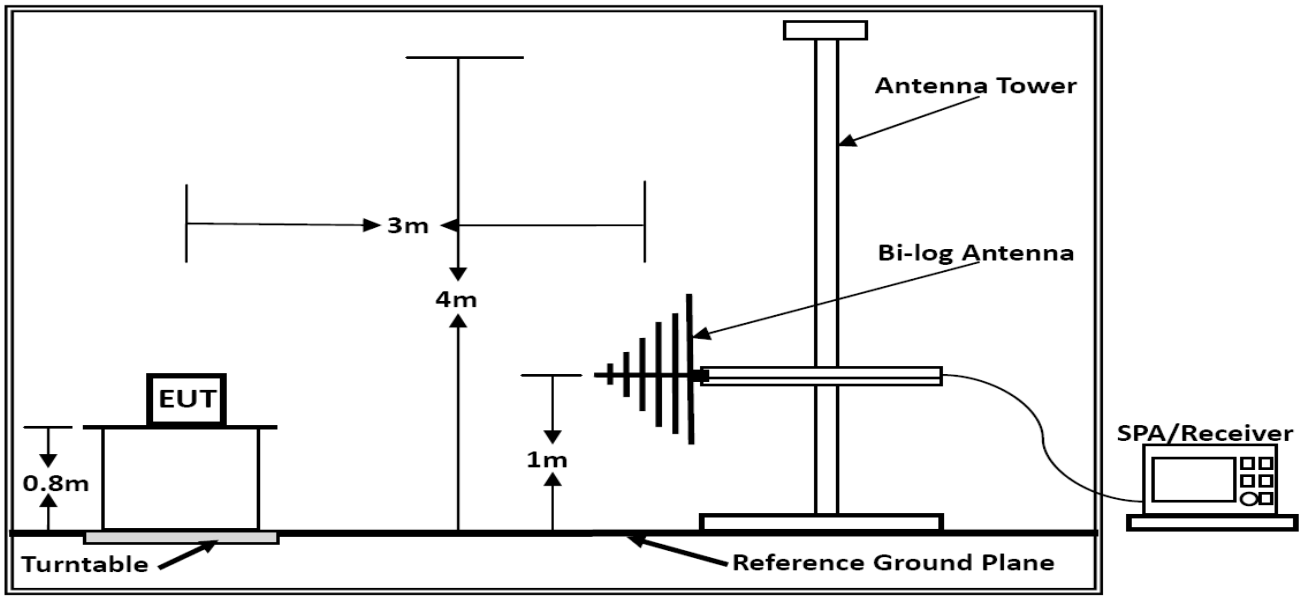
Pre-scan all mode and recorded the worst case results(test with adapter ADS-25FSG-06 05015EPCU) in this report (TX-NFC)

4.2 Field Strength of Fundamental Emissions and Mask Measurement

4.2.1 Block Diagram of Test Setup



Below 30MHz



Below 1GHz

4.2.2 Field strength of fundamental emissions limit and Mask limit

The field strength of fundamental emissions shall not exceed 15848 microvolts/meter at 30 meters. The emissions limit in this paragraph is based on measurement instrumentation employing a QP detector.

Frequencies (MHz)	Field Strength (microvolts/meter)	Field Strength (dBμV/m) at 10m	Field Strength (dBμV/m) at 3m
13.553 ~ 13.567MHz	15848 at 30m	103.08 (QP)	124 (QP)

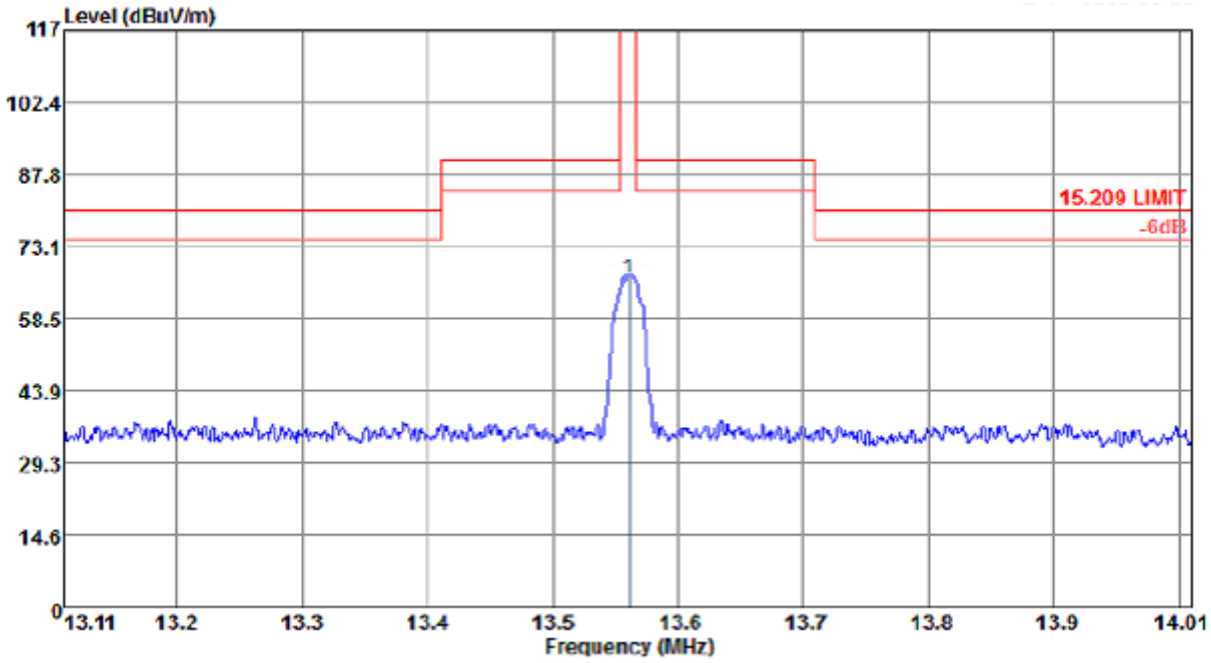
Mask Limit:

Frequency (MHz)	**Limit (dBuV/m)**	**Distance (m)**
1.705-13.110	69.5	3
13.110-13.410	80.5	3
13.410-13.553	90.5	3
13.553-13.567	124.0	3
13.567-13.710	90.5	3
13.710-14.010	80.5	3
14.010-30.000	69.5	3

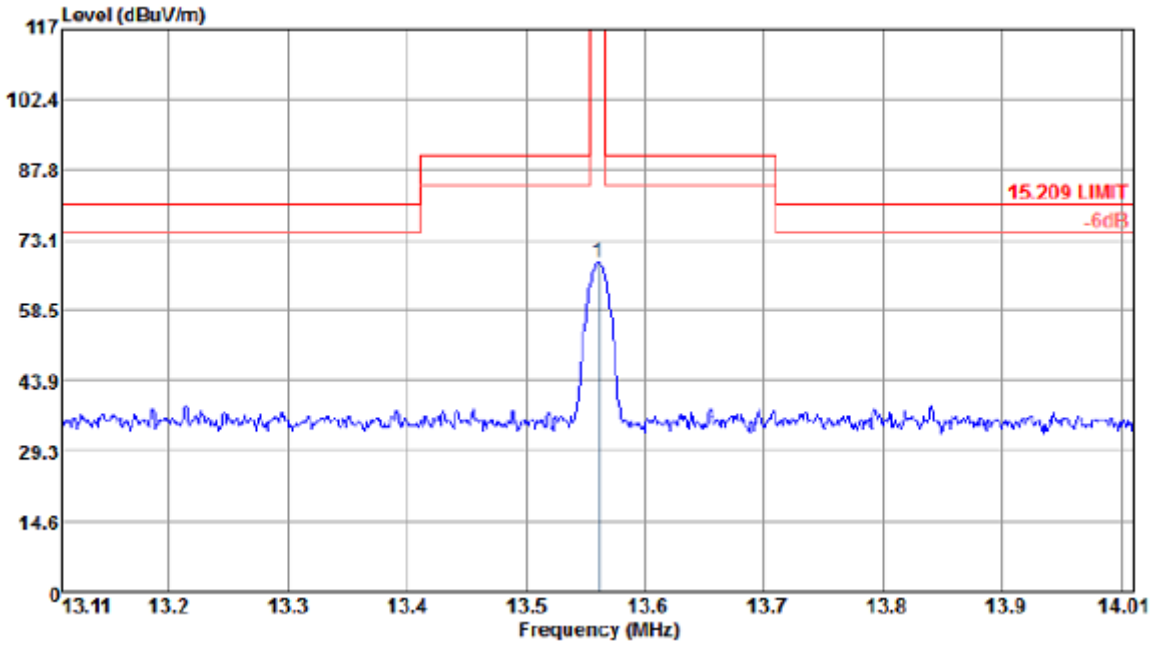
4.2.3 Test Results

PASS.

The test data please refer to following page:



	Freq.(MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Pol.	Remark
1	13.56	55.70	10.86	66.56	124	H	QP



	Freq.(MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Pol.	Remark
1	13.56	56.44	10.86	67.30	124	V	QP

*Note: Factor= Antenna Gain + Cable Loss – Amplifier Gain

Emission level (dBμV/m) = 20 log Emission level (μV/m).

Measured distance is 3m.

All emissions emit form non-NFC function of digital unintentional emissions. All NFC's spurious emissions are below 20dB of limits.

5. BANDWIDTH OF THE OPERATING FREQUENCY

5.1 Standard Applicable

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band (13.553 ~ 13.567MHz).

5.2 Test Result

EUT	Tablet POS
RBW	100Hz
VBW	100Hz
SPAN	500Hz
Carrier Freq. (MHz)	20dBBandwidth (KHz)
13.56	0.242

Please refer to the test plot:

6. FREQUENCY STABILITY MEASUREMENT

6.1 Standard Applicable

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

6.2 Test Result

Voltage vs. Frequency Stability

Voltage(V)	Measurement Frequency (MHz)
DC 3.3V	13.56028
DC 3.7V	13.56021
DC 4.2V	13.56025
Max. Deviation (MHz)	0.00028
Max. Deviation (ppm)	20.6490

Temperature vs. Frequency Stability

Temperature (℃)	Measurement Frequency (MHz)
-20	13.56033
-10	13.56031
0	13.56029
10	13.56023
20	13.56021
30	13.56025
40	13.56027
50	13.56021
Max. Deviation (MHz)	0.00033
Max. Deviation (ppm)	24.3363

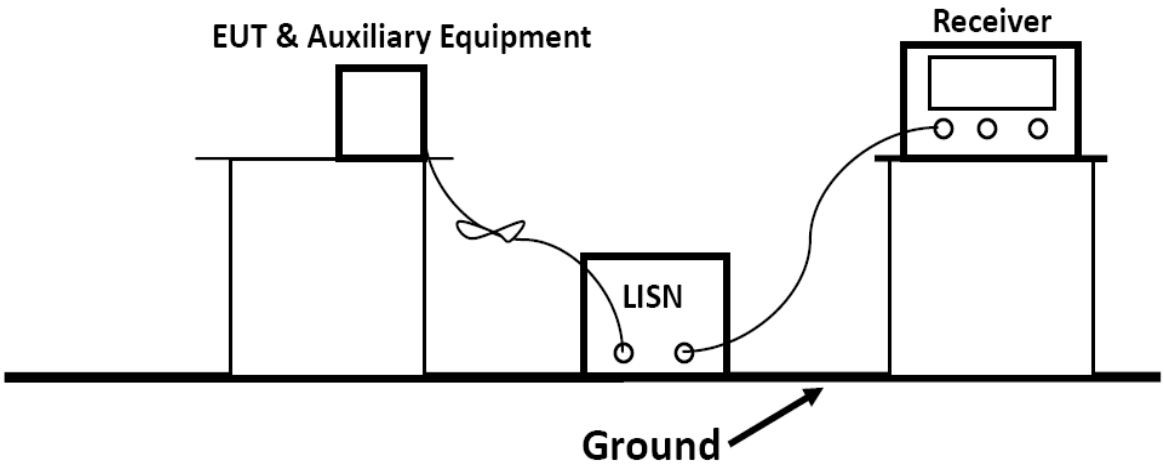
7. LINE CONDUCTED EMISSIONS

7.1 Standard Applicable

According to §15.207 (a) or RSS-GEN: For an intentional radiator which 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 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range(MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

7.2 Block Diagram of Test Setup

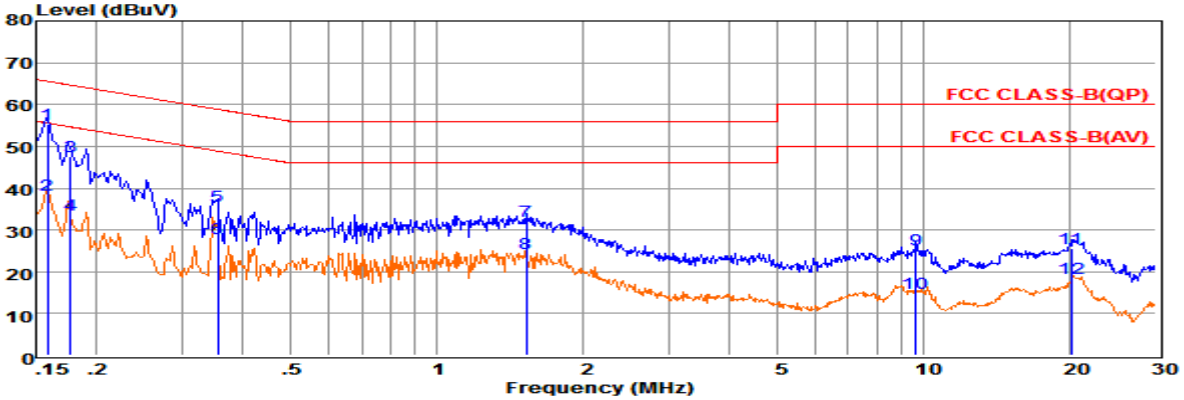


7.3 Test Results

PASS.

The test data please refer to following page.

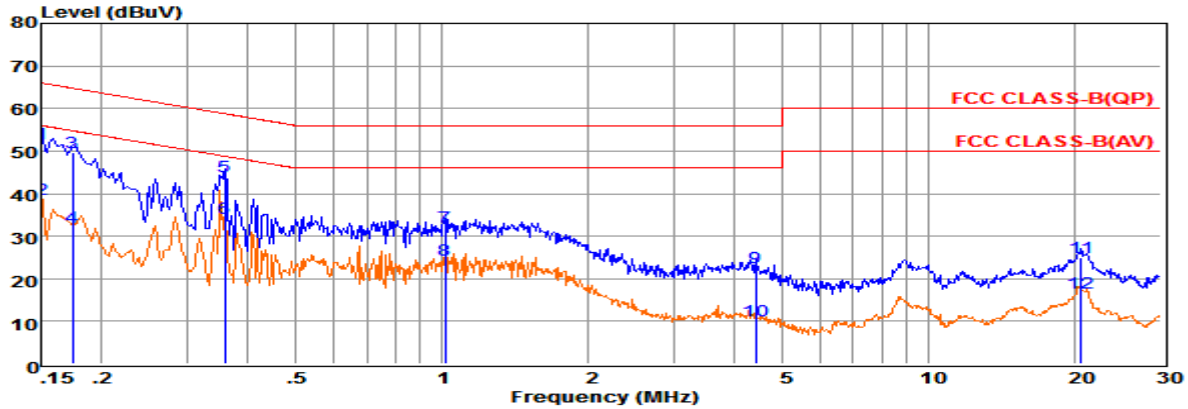
Line:



	Freq MHz	Reading dBuV	LisnFac dB	CabLos dB	Atten_Fac dB	Measured dBuV	Limit dBuV	Over dB	Remark
1	0.15816	35.71	9.58	0.02	10.00	55.31	65.56	-10.25	QP
2	0.15826	18.80	9.58	0.02	10.00	38.40	55.55	-17.15	Average
3	0.17678	27.88	9.60	0.02	10.00	47.50	64.64	-17.14	QP
4	0.17688	14.11	9.60	0.02	10.00	33.73	54.63	-20.90	Average
5	0.35388	15.90	9.62	0.03	10.00	35.55	58.87	-23.32	QP
6	0.35398	8.37	9.62	0.03	10.00	28.02	48.87	-20.85	Average
7	1.52736	12.35	9.64	0.05	10.00	32.04	56.00	-23.96	QP
8	1.52836	4.57	9.64	0.05	10.00	24.26	46.00	-21.74	Average
9	9.65386	5.44	9.69	0.08	10.00	25.21	60.00	-34.79	QP
10	9.65486	-4.83	9.69	0.08	10.00	14.94	50.00	-35.06	Average
11	20.05594	5.81	9.76	0.12	10.00	25.69	60.00	-34.31	QP
12	20.05694	-1.54	9.76	0.12	10.00	18.34	50.00	-31.66	Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac.
2. The emission levels that are 20dB below the official limit are not reported.

Neutral:



	Freq MHz	Reading dBuV	LisnFac dB	CabLos dB	Atten_Fac dB	Measured dBuV	Limit dBuV	Over dB	Remark
1	0.15000	31.96	9.70	0.02	10.00	51.68	66.00	-14.32	QP
2	0.15010	18.93	9.70	0.02	10.00	38.65	55.99	-17.34	Average
3	0.17399	29.90	9.64	0.02	10.00	49.56	64.77	-15.21	QP
4	0.17409	12.56	9.64	0.02	10.00	32.22	54.76	-22.54	Average
5	0.35765	24.28	9.61	0.03	10.00	43.92	58.78	-14.86	QP
6	0.35775	14.64	9.61	0.03	10.00	34.28	48.78	-14.50	Average
7	1.01569	12.39	9.63	0.05	10.00	32.07	56.00	-23.93	QP
8	1.01669	4.81	9.63	0.05	10.00	24.49	46.00	-21.51	Average
9	4.40705	3.03	9.66	0.06	10.00	22.75	56.00	-33.25	QP
10	4.40805	-9.56	9.66	0.06	10.00	10.16	46.00	-35.84	Average
11	20.59435	4.98	9.87	0.12	10.00	24.97	60.00	-35.03	QP
12	20.59535	-3.46	9.87	0.12	10.00	16.53	50.00	-33.47	Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac.
2. The emission levels that are 20dB below the official limit are not reported.

****Note:*

Pre-scan all mode and recorded the worst case results in this report (TX-NFC)

8. ANTENNA REQUIREMENT

8.1 Standard Applicable

According to §15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

8.2 Antenna Connected Construction

The antenna used for transmitting is permanently attached and no consideration of replacement. Please see EUT photo for details.

10. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacture	Model No.	Serial No.	Characteristics	Cal Date	Due Date
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Jun 18, 2016	Jun 17, 2017
Signal analyzer	Agilent	E4448A(External mixers to 40GHz)	US44300469	9kHz~40GHz	Jul 16, 2016	Jul 15, 2017
LISN	MESS Tec	NNB-2/16Z	99079	9KHz-30MHz	Jun 18, 2016	Jun 17, 2017
LISN	EMCO	3819/2NM	9703-1839	9KHz-30MHz	Jun 18, 2016	Jun 17, 2017
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9KHz-30MHz	Jun 18, 2016	Jun 17, 2017
ISN	SCHAFFNE	ISN ST08	21653	9KHz-30MHz	Jun 18, 2016	Jun 17, 2017
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30M-18GHz	Jun 18, 2016	Jun 17, 2017
Amplifier	SCHAFFNE	COA9231A	18667	9kHz-2GHzz	Apr 18, 2016	Apr 17, 2017
Amplifier	Agilent	8449B	3008A021	1GHz-26.5GHz	Apr 18, 2016	Apr 17, 2017
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5GHz-40GHz	Apr 18, 2016	Apr 17, 2017
Loop Antenna	R&S	HFH2-Z2	860004/00	9k-30MHz	Apr 18, 2016	Apr 17, 2017
By-log Antenna	SCHWARZB	VULB9163	9163-470	30MHz-1GHz	Apr 18, 2016	Apr 17, 2017
Horn Antenna	EMCO	3115	6741	1GHz-18GHz	Apr 18, 2016	Apr 17, 2017
Horn Antenna	SCHWARZB	BBHA9170	BBHA9170	15GHz-40GHz	Apr 18, 2016	Apr 17, 2017
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz-1GHz	Jun 18, 2016	Jun 17, 2017
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-H	1GHz-40GHz	Jun 18, 2016	Jun 17, 2017
Power Meter	R&S	NRVS	100444	DC-40GHz	Jun 18, 2016	Jun 17, 2017
Power Sensor	R&S	NRV-Z51	100458	DC-30GHz	Jun 18, 2016	Jun 17, 2017
Power Sensor	R&S	NRV-Z32	10057	30MHz-6GHz	Jun 18, 2016	Jun 17, 2017
AC Power Source	HPC	HPA-500E	HPA-9100	AC 0~300V	Jun 18, 2016	Jun 17, 2017
DC power Soure	GW	GPC-6030D	C671845	DC 1V-60V	Jun 18, 2016	Jun 17, 2017
Temp. and Humidigy Chamber	Giant Force	GTH-225-20-S	MAB0103-00	N/A	Jun 18, 2016	Jun 17, 2017
RF CABLE-1m	JYE Bao	RG142	CB034-1m	20MHz-7GHz	Jun 18, 2016	Jun 17, 2017
RF CABLE-2m	JYE Bao	RG142	CB035-2m	20MHz-1GHz	Jun 18, 2016	Jun 17, 2017
Signal Generator	R&S	SMR40	10016	10MHz~40GHz	Jul 16, 2016	Jul 15, 2017
Universal Radio Communication Tester	R&S	CMU200	112012	N/A	Oct 27, 2015	Oct 26, 2016
Wideband Radia Communication Tester	R&S	CMW500	1201.0002K50	N/A	Nov 19, 2016	Nov 18, 2016
MXG Vector Signal Generator	Agilent	N5182A	MY47071151	250KHz~6GHz	Oct 27, 2015	Oct 26, 2016
MXG Vector Signal Generator	Agilent	E4438C	MY42081396	250KHz~6GHz	Oct 27, 2015	Oct 26, 2016
PSG Analog Signal Generator	Agilent	N8257D	MY46520521	250KHz~20GHz	Nov 19, 2016	Nov 18, 2016
MXA Signal Analyzer	Agilent	N9020A	MY50510140	10Hz~26.5GHz	Oct 27, 2015	Oct 26, 2016
DC Power Supply	Agilent	E3642A	/	0-8V,5A/0-20V,2	May 20,	May 19, 2017
RF Control Unit	Tonscend	JS0806-1	/	/	Nov 19, 2016	Nov 18, 2016
LTE Test Software	Tonscend	JS1120-1	/	Version: 2.5.7.0	N/A	N/A

X-series USB Peak and Average Power Sensor Agilent	Agilent	U2021XA	MY54080022	/	Oct 27, 2015	Oct 26, 2016
4 Ch.Simultaneous Sampling 14 Bits 2 MS/s	Agilent	U2531A	MY54080016	/	Oct 27, 2015	Oct 26, 2016
Test Software	Ascentest	AT890-SW	20141230	Version:	N/A	N/A
Splitter/Combiner(Qty: 2)	Mini-Circuits	ZAPD-50W 4.2-6.0 GHz	NN256400424	/	Oct 27, 2015	Oct 26, 2016
Splitter/Combine(Qty: 2)	MCLI	PS3-7	4463/4464	/	Oct 27, 2015	Oct 26, 2016
ATT (Qty: 1)	Mini-Circuits	VAT-30+	30912	/	Oct 27, 2015	Oct 26, 2016

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