



## RADIO TEST REPORT

For

myFirst Tech Asia Pte. Ltd.

myFirst Fone R1s、 myFirst Fone R1c

Test Model: KW1305

Additional Model No.: myFirst Fone R

Prepared for	: myFirst Tech Asia Pte. Ltd.
Address	: 31 Woodlands Close,#01-22Woodlands Horizon Singapore
Prepared by	: Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel	: (+86)755-82591330
Fax	: (+86)755-82591332
Web	: www.LCS-cert.com
Mail	: webmaster@LCS-cert.com
Date of receipt of test sample	: November 25, 2023
Number of tested samples	: 2
Serial number	: Prototype
Date of Test	: November 25, 2023 ~ January 05, 2024
Date of Report	: January 06, 2024





<b>RADIO TEST REPORT</b> <b>ETSI EN 303 413 V1.2.1 (2021-04)</b> Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard for access to radio spectrum	
<b>Report Reference No.</b>	: <b>LCSA11253005EI</b>
<b>Date of Issue</b>	: January 06, 2024
<b>Testing Laboratory Name</b>	: <b>Shenzhen LCS Compliance Testing Laboratory Ltd.</b>
<b>Address</b>	: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
<b>Testing Location/ Procedure</b>	: Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
<b>Applicant's Name</b>	: <b>myFirst Tech Asia Pte. Ltd.</b>
<b>Address</b>	: 31 Woodlands Close, #01-22 Woodlands Horizon Singapore 737855
<b>Test Specification</b>	
<b>Standard</b>	: ETSI EN 303 413 V1.2.1 (2021-04)
<b>Test Report Form No.</b>	: LCSEMC-1.0
<b>TRF Originator</b>	: Shenzhen LCS Compliance Testing Laboratory Ltd.
<b>Master TRF</b>	: Dated 2017-06
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<b>Test Item Description</b>	: <b>myFirst Fone R1s、 myFirst Fone R1c</b>
<b>Trade Mark</b>	: myFirst
<b>Test Model</b>	: KW1305
<b>Ratings</b>	: Input: 5V=1A Battery: DC 3.8V, 605mAh
<b>Result</b>	: <b>Positive</b>

Compiled by:

Li Huan/ Administrator

Supervised by:

Cary Luo/ Technique principal

Approved by:

Gavin Liang/ Manager



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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## RADIO -- TEST REPORT

**Test Report No. : LCSA11253005EI****January 06, 2024**  
Date of issue

Test Model..... : KW1305

EUT..... : myFirst Fone R1s、myFirst Fone R1c

**Applicant..... : myFirst Tech Asia Pte. Ltd.**Address..... : 31 Woodlands Close,#01-22Woodlands Horizon  
Singapore 737855

Telephone..... : /

Fax..... : /

**Manufacturer..... : myFirst Tech Asia Pte. Ltd.**Address..... : 31 Woodlands Close,#01-22Woodlands Horizon  
Singapore 737855

Telephone..... : /

Fax..... : /

**Factory..... : UMEOX Innovations Co.,Ltd**Address..... : Room 08-09, Floor 12, KeYan Bldg, Tsinghua High Tech  
Park, XinDong Road 1, NanShan, 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.



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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	January 06, 2024	Initial Issue	---



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## 1. GENERAL INFORMATION

### 1.1. Product Description for Equipment Under Test (EUT)

EUT	: myFirst Fone R1s、myFirst Fone R1c
Test Model	: KW1305
Additional Model No.	: myFirst Fone R
Model Declaration	: PCB board, structure and internal of these model(s) are the same, : So no additional models were tested
Power Supply	: Input: 5V=1A Battery: DC 3.8V, 605mAh
Hardware Version	: S11N-MB-V2.0
Software Version	: /
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 79 channels for Bluetooth V4.2 (BDR/EDR) 40 channels for Bluetooth V4.2 (BT LE)
Channel Spacing	: 1MHz for Bluetooth V4.2 (BDR/EDR) 2MHz for Bluetooth V4.2 (BT LE)
Modulation Type	: GFSK, $\pi/4$ -DQPSK for Bluetooth V4.2 (BDR/EDR) GFSK for Bluetooth V4.2 (BT LE)
Bluetooth Version	: V4.2
Antenna Description	: LDS Antenna, -0.2dBi(Max.)
WIFI(2.4G Band)	:
Frequency Range	: 2412MHz~2472MHz
Channel Spacing	: 5MHz
Channel Number	: 13 Channel for 20MHz bandwidth(2412~2472MHz)
Modulation Type	: 802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: LDS Antenna, -0.2dBi(Max.)
2G	:
Support Band	: <input checked="" type="checkbox"/> GSM 900 (EU-Band) <input checked="" type="checkbox"/> DCS 1800 (EU-Band) <input type="checkbox"/> GSM 850 (U.S.-Band) <input type="checkbox"/> PCS 1900 (U.S.-Band)
Release Version	: R99
GPRS Class	: Class 12
EGPRS Class	: Class 12
Uplink	: GSM 900: 880MHz~915MHz DCS 1800: 1710MHz~1785MHz



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Downlink : GSM 900: 925MHz~960MHz  
DCS 1800: 1805MHz~1880MHz  
Type Of Modulation : GMSK for GSM/GPRS; GMSK/8PSK for EGPRS  
Antenna Description : LDS Antenna  
-3.2dBi (max.) For GSM 900  
-0.7dBi (max.) For DCS 1800  
Power Class : GSM 900: Level 5, DCS 1800: Level 0  
EGPRS 900: Level 8, EGPRS 1800: Level 2

**3G :**

Support Band : ☐ WCDMA Band II (U.S.-Band)  
☐ WCDMA Band V (U.S.-Band)  
☐ WCDMA Band IV (U.S.-Band)  
☒ WCDMA Band I (EU-Band)  
☒ WCDMA Band VIII (EU-Band)  
Release Version : R9  
Uplink : WCDMA Band I: 1920MHz~1980MHz  
WCDMA Band VIII: 880MHz~915MHz  
Downlink : WCDMA Band I: 2110MHz~2170MHz  
WCDMA Band VIII: 925MHz~960MHz  
Type Of Modulation : QPSK/16QAM  
Antenna Description : LDS Antenna  
-0.6dBi (max.) For WCDMA Band I  
-3.2dBi (max.) For WCDMA Band VIII  
Power Class : Level 3

**LTE :**

Support Band : ☒ E-UTRA Band 1(EU-Band)  
☒ E-UTRA Band 3(EU-Band)  
☒ E-UTRA Band 7(EU-Band)  
☒ E-UTRA Band 8(EU-Band)  
☒ E-UTRA Band 20(EU-Band)  
☒ E-UTRA Band 28(EU-Band)  
☒ E-UTRA Band 38(EU-Band)  
LTE Release Version : R12  
FDD Band : Uplink: E-UTRA Band 1: 1920MHz~1980MHz  
E-UTRA Band 3: 1710MHz~1785MHz  
E-UTRA Band 7: 2500MHz~2570MHz  
E-UTRA Band 8: 880MHz~915MHz  
E-UTRA Band 20: 832MHz~862MHz  
E-UTRA Band 28: 703MHz~748MHz  
Downlink: E-UTRA Band 1: 2110MHz~2170MHz  
E-UTRA Band 3: 1805MHz~1880MHz  
E-UTRA Band 7: 2620MHz~2690MHz



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E-UTRA Band 8: 925MHz~960MHz  
E-UTRA Band 20: 791MHz~821MHz  
E-UTRA Band 28: 758MHz~803MHz  
TDD Band : E-UTRA Band 38: 2570MHz ~ 2620MHz  
Type Of Modulation : QPSK/16QAM  
Antenna Description : LDS Antenna  
-0.5dBi (max.) For E-UTRA Band 1  
-0.7dBi (max.) For E-UTRA Band 3  
-0.2dBi (max.) For E-UTRA Band 7  
-3.2dBi (max.) For E-UTRA Band 8  
-2.5dBi (max.) For E-UTRA Band 20  
-3.5dBi (max.) For E-UTRA Band 28  
-0.2dBi (max.) For E-UTRA Band 38  
Power Class : Class 3  
GPS Receiver :  
Receive Frequency : 1575.42MHz  
Channel Number : 1  
Antenna Description : LDS Antenna, -0.9dBi(Max.)  
GLONASS Receiver :  
Receive Frequency : 1602.5625MHz  
Channel Number : 1  
Antenna Description : LDS Antenna, -0.9dBi(Max.)







## 1.2. Objective

This Type approval report is prepared on behalf of **myFirst Tech Asia Pte. Ltd.** in accordance with ETSI EN 303 413 V1.2.1 (2021-04), Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard for access to radio spectrum.

The objective is to determine compliance with ETSI EN 303 413 V1.2.1 (2021-04).

## 1.3. Related Submittal(s)/Grant(s)

No Related Submittals.

## 1.4. Test Methodology

All measurements contained in this report were conducted with ETSI EN 303 413 V1.2.1 (2021-04).

## 1.5. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

## 1.6. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
ShenZhen BaiJunda Electronic Co., Ltd.	Power Adapter	UT-580S-5100UY	---	CE

Note: The adapter is supplied by lab and only use tested.

## 1.7. External I/O

I/O Port Description	Quantity	Cable
Power Port	1	USB Cable: 1.0m, unshielded





## 1.8. Measurement Uncertainty

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.42dB	
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.54dB	Polarize: V
	4.1dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	2.08dB	Polarize: H
	2.56dB	Polarize: V
Uncertainty for radio frequency	0.01ppm	
Uncertainty for conducted RF Power	0.65dB	
Uncertainty for temperature	0.2℃	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

## 9. Description Of Test Modes

The EUT has been tested under operating condition.

Mode 1: GPS Receiving;

Mode 2: GLONASS Receiver;

This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in Y position.





## 2. SYSTEM TEST CONFIGURATION

### 2.1. Justification

The system was configured for testing in engineering mode.

### 2.2. EUT Exercise Software

N/A.

### 2.3. Special Accessories

N/A.

### 2.4. Block Diagram/Schematics

Please refer to the related document.

### 2.5. Equipment Modifications

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

### 2.6. Configuration of Test Setup

Please refer to the test setup photo.





3. SUMMARY OF TEST RESULTS

RULES ETSI EN 303 413 V1.2.1 (2021-04)	DESCRIPTION OF TEST	RESULT
§ 4.2.1	Receiver blocking	Compliant
§ 4.2.2	Receiver spurious emissions	Compliant

Note: “N/A” means this test item is not applicable.





## 4. TEST RESULTS

### 4.1. Receiver blocking

#### 4.1.1 Definition and Limit

Receiver blocking is a measure of the capability of the GUE to receive a wanted signal without exceeding a given degradation due to the presence of an unwanted input signal operating in accordance with the allocation table of the ITU Radio Regulations [i.13] in frequency bands adjacent or near-adjacent to the relevant RNSS band.

The  $C/N_0$  metric reported by the GUE for all GNSS constellations and GNSS signals given in table 4-1 and supported by the GUE shall not degrade by more than the value given in equation (4-1) when a blocking signal is applied. The blocking signal is defined in table 4-4, with the frequencies and power levels defined in table 4-2 and/or in table 4-3 depending on the RNSS bands supported by the GUE

Equation 4-1: Maximum degradation in  $C/N_0$

$$\Delta C/N_0 \leq 1 \text{ dB} \quad (4-1)$$

**Table 4-2: Frequency bands, blocking signal test point centre frequencies and power levels for the 1 559 MHz to 1 610 MHz RNSS band**

Frequency band (MHz)	Test point centre frequency (MHz)	Blocking signal power level (dBm)	Comments
1518 to 1525	1524	-65	MSS (space-to-Earth) band
1525 to 1549	1548	-95	MSS (space-to-Earth) band
1549 to 1559	1554	-105	MSS (space-to-Earth) band
1559 to 1610	GUE RNSS band under test		
1610 to 1626	1615	-105	MSS (space-to-Earth) band
1626 to 1640	1627	-85	MSS (space-to-Earth) band

**Table 4-3: Frequency bands, blocking signal test point centre frequencies and power levels for the 1 164 MHz to 1 300 MHz RNSS band**

Frequency band (MHz)	Test point centre frequency (MHz)	Blocking signal power level (dBm)	Comments
960 to 1164	1154	-75	AM(R)S, ARNS band
1164 to 1215	GUE RNSS band under test		
1215 to 1260	GUE RNSS band under test		
1260 to 1300	GUE RNSS band under test		
1300 to 1350	1310	-85	Radiolocation, ARNS, RNSS (Earth-to-space) band

**Table 4-4: Blocking signal**

Parameter	Value	Comments
Frequency	See table 4-2 and table 4-3	
Power level	See table 4-2 and table 4-3	
Bandwidth	1 MHz	See clause B.1 for details
Format	AWGN	





#### 4.1.2 Test Procedure

- 1) Configure the GNSS signal generator to simulate the GNSS constellations and GNSS signals from table 4-1 declared as supported by the GUE, with power levels and other details as specified in clause B.2.
- 2) With the blocking signal switched off, the EUT shall be given sufficient time to acquire all simulated satellites from the declared GNSS constellations.
- 3) Record the  $C/N_0$  value(s) reported by the EUT under the condition in step 2). Sufficient filtering shall be used to obtain stable value(s).  $C/N_0$  may be averaged over time and across all the simulated satellites for a particular GNSS constellation and GNSS signal. However,  $C/N_0$  shall not be averaged across different satellite signals in the same GNSS constellation or across different GNSS constellations. For a multi-GNSS constellation and/or multi-GNSS signal EUT, there shall be a separate  $C/N_0$  value recorded for each GNSS constellation and each GNSS signal supported.
- 4) The blocking signal generator shall be configured to generate the signal defined in table 4-4, at the first test point centre frequency and signal power level as specified in table 4-2.
- 5) The blocking signal shall be switched on, and the EUT's  $C/N_0$  value(s) recorded as in step 3). The difference(s) between this value(s) and the value(s) recorded in step 3) is the  $C/N_0$  degradation caused by the blocking signal for this test point.
- 6) Test point Pass/Fail Criteria: If the  $C/N_0$  degradation from step 5) does not exceed the value in equation (4-1), then this test point is set to "pass". If the  $C/N_0$  degradation exceeds the value in equation (4-1), then this test point is set to "fail". For a multi-GNSS constellation and/or multi-GNSS signal EUT, there shall be a separate pass/fail determination for each GNSS constellation and for each GNSS signal supported. If the  $C/N_0$  degradation exceeds the value in equation (4-1) for any supported GNSS constellation or supported GNSS signal, then this test point is set to "fail".
- 7) Step 1) through step 6) shall be repeated for all test point centre frequencies (and associated signal power level) specified in table 4-2.

#### 4.1.3 Test Result

##### Environmental Conditions

Temperature/ Humidity:	22.7°C/ 51.3%	ATM Pressure:	100.9 kPa
Operator:	Taylor Hu	Conclusion:	Pass

##### GPS Receiver:

Frequency Band(MHz)	Test Point Center Frequency(MHz)	Blocking signal power level (dBm)	Test Result(dB)	Limit(dB) ( $\Delta C/N_0$ )
1518 to 1525	1524	-65	0.28	$\leq 1$
1525 to 1549	1548	-95	0.36	$\leq 1$
1 549 to 1 559	1554	-105	0.34	$\leq 1$
1 610 to 1 626	1615	-105	0.49	$\leq 1$
1 626 to 1 640	1627	-85	0.29	$\leq 1$



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## GLONASS Receiver

Frequency Band(MHz)	Test Point Center Frequency(MHz)	Blocking signal power level (dBm)	Test Result(dB)	Limit(dB) ( $\Delta C/N_0$ )
1518 to 1525	1524	-65	0.30	$\leq 1$
1525 to 1549	1548	-95	0.16	$\leq 1$
1 549 to 1 559	1554	-105	0.31	$\leq 1$
1 610 to 1 626	1615	-105	0.35	$\leq 1$
1 626 to 1 640	1627	-85	0.24	$\leq 1$





## 4.2. Receiver Spurious Emissions

### 4.2.1 Definition and Limit

Receiver spurious emissions are emissions at any frequency when the GUE is active.

Frequency range	Maximum power	Bandwidth
30 MHz to 1 GHz	-57 dBm	100 kHz
1 GHz to 8,3 GHz	-47 dBm	1 MHz

### 4.2.2 Test Procedure

Please refer to ETSI EN 303 413 V1.2.1 (2021-04) clause 5.5.3 for measurement method.

### 4.2.3 Test Result

#### Environmental Conditions

Temperature/ Humidity:	22.7°C / 51.3%	ATM Pressure:	100.9 kPa
Test Mode:	Mode 1-1575.42MHz	Operator:	Taylor Hu

#### Test Result For Receiving Mode(Detecting Frequency Range: 30MHz~1GHz)

Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
67.49	-68.35	-57.00	-11.35	V
910.81	-69.32	-57.00	-12.32	V
165.00	-74.03	-57.00	-17.03	H
927.90	-73.25	-57.00	-16.25	H

#### Test Result For Receiving Mode(Detecting Frequency Range: Above 1GHz)

Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
1713.61	-71.39	-47.00	-24.39	V
3563.62	-55.10	-47.00	-8.10	H
2018.65	-71.70	-47.00	-24.70	H
3568.39	-61.75	-47.00	-14.75	V



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**Environmental Conditions**

Temperature/ Humidity:	22.7°C / 51.3%	ATM Pressure:	100.9 kPa
Test Mode:	Mode2-1602.5625MHz	Operator:	Taylor Hu

**Test Result For Receiving Mode(Detecting Frequency Range: 30MHz~1GHz)**

Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
66.88	-68.84	-57.00	-11.84	V
911.97	-67.58	-57.00	-10.58	V
165.59	-74.86	-57.00	-17.86	H
924.93	-72.51	-57.00	-15.51	H

**Test Result For Receiving Mode(Detecting Frequency Range: Above 1GHz)**

Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
1713.34	-68.18	-47.00	-21.18	V
3563.59	-56.98	-47.00	-9.98	H
2018.11	-71.33	-47.00	-24.33	H
3567.53	-58.58	-47.00	-11.58	V

**Notes:**

1. Measuring frequencies from 25MHz~10th harmonic or 26.5GHz (which is less)
2. The emissions that at least 20dB below the official limit are not reported.





## 5. LIST OF MEASURING EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	MXA Signal Analyzer	Agilent	N9020A	MY51250905	2023-10-18	2024-10-17
2	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	103818	2023-06-09	2024-06-08
3	MXG Vector Signal Generator	Agilent	N5182A	MY47071151	2023-06-09	2024-06-08
4	Combiner	N/A	N/A	SHWLCB2-52500 S	2023-10-18	2024-10-17
5	EMI Test Software	Farad	EZ	/	N/A	N/A
6	3m Full Anechoic Chamber	MRDIANZI	FAC-3M	MR009	2022-08-17	2025-08-16
7	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
9	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
10	EMI Test Receiver	R&S	ESR 7	101181	2023-08-15	2024-08-14
11	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2023-07-17	2024-07-16
12	Low-frequency amplifier	SchwarzZBECK	BBV9745	00253	2023-10-18	2024-10-17
13	High-frequency amplifier	JS Denki Pte	PA0118-43	JSPA21009	2023-10-18	2024-10-17





## 6. PHOTOGRAPHS OF TEST SETUP

Please refer to separated files Appendix D for Photographs of Test Setup\_RF.

## 7. PHOTOGRAPHS OF THE EUT

Please refer to separated files Appendix C for Photographs of The EUT.

-----THE END OF REPORT-----

