



中国认可  
国际互认  
检测  
TESTING  
CNAS L4595

## RADIO TEST REPORT

For

myFirst Tech Asia Pte. Ltd.

myFirst Fone S4

Test Model: KW1601

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

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 : April 08, 2025  
Number of tested samples : 2  
Sample No. : A250401028-1, A250401028-2  
Serial number : Prototype  
Date of Test : April 08, 2025 ~ April 25, 2025  
Date of Report : April 27, 2025





<b>RADIO TEST REPORT</b>	
<b>ETSI EN 301 908-1 V15.2.1 (2023-01) &amp; ETSI EN 301 908-13 V13.3.1 (2024-10)</b>	
<b>Report Reference No.</b> .....	<b>LCSA12194118EG</b>
<b>Date of Issue</b> .....	<b>April 27, 2025</b>
<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, #01-22Woodlands Horizon Singapore 737855
<b>Test Specification</b>	
<b>Standard</b> .....	ETSI EN 301 908-1 V15.2.1 (2023-01) ETSI EN 301 908-13 V13.3.1 (2024-10)
<b>Test Report Form No.</b> .....	TRF-4-E-142 A/0
<b>TRF Originator</b> .....	Shenzhen LCS Compliance Testing Laboratory Ltd.
<b>Master TRF</b> .....	Dated 2017-06
<b>Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.</b> This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen LCS Compliance Testing Laboratory Ltd. is acknowledged as copyright owner and source of the material. Shenzhen LCS Compliance Testing Laboratory Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.	
<b>Test Item Description</b> .....	
<b>myFirst Fone S4</b>	
<b>Trade Mark</b> .....	myFirst
<b>Test Model</b> .....	KW1601
<b>Ratings</b> .....	Input:DC 5V, 1000mA DC 3.8V by Rechargeable Li-ion Battery, 605mAh
<b>Result</b> .....	<b>PASS</b>

**Compiled by:**

Jack Liu/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

Scan code to check authenticity



## RADIO -- TEST REPORT

Test Report No. : LCSA12194118EG	April 27, 2025 Date of issue
----------------------------------	---------------------------------

Test Model.....	: KW1601
EUT.....	: myFirst Fone S4
<b>Applicant.....</b>	<b>: myFirst Tech Asia Pte. Ltd.</b>
Address.....	: 31 Woodlands Close, #01-22Woodlands Horizon Singapore 737855
Telephone.....	: /
Fax.....	: /
<b>Manufacturer.....</b>	<b>: myFirst Tech Asia Pte. Ltd.</b>
Address.....	: 31 Woodlands Close, #01-22Woodlands Horizon Singapore 737855
Telephone.....	: /
Fax.....	: /
<b>Factory.....</b>	<b>: Umeox Innovations Co., Ltd</b>
Address.....	: Floor 19, Block A, Building 8, Shenzhen International Innovation Valley Phase III, Dashi 1st Road, Nanshan District, Shenzhen, China
Telephone.....	: /
Fax.....	: /

Test Result	PASS
-------------	------

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

Report Version	Issue Date	Revision Content	Revised By
000	April 27, 2025	Initial Issue	---





## TABLE OF CONTENTS

<b>1. GENERAL INFORMATION .....</b>	<b>6</b>
1.1. PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	6
1.2. SUPPORT EQUIPMENT LIST .....	8
1.3. EXTERNAL I/O .....	8
1.4. OBJECTIVE .....	8
1.5. TEST CONDITIONS .....	9
1.6. DESCRIPTION OF TEST MODE .....	9
1.7. MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, $k=2$ ).....	10
1.8. DESCRIPTION OF TEST FACILITY.....	10
<b>2. SYSTEM TEST CONFIGURATION.....</b>	<b>11</b>
2.1. JUSTIFICATION.....	11
2.2. EUT EXERCISE SOFTWARE.....	11
2.3. SPECIAL ACCESSORIES.....	11
2.4. BLOCK DIAGRAM/SCHEMATICS .....	11
2.5. EQUIPMENT MODIFICATIONS.....	11
2.6. TEST SETUP .....	11
<b>3. SUMMARY OF TEST RESULTS.....</b>	<b>12</b>
<b>4. LIST OF MEASURING EQUIPMENT .....</b>	<b>15</b>
<b>5. PHOTOGRAPHS OF TEST SETUP.....</b>	<b>16</b>
<b>6. PHOTOGRAPHS OF THE EUT.....</b>	<b>16</b>





## 1. GENERAL INFORMATION

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

EUT	: myFirst Fone S4
Test Model	: KW1601
Ratings	: Input:DC 5V, 1000mA DC 3.8V by Rechargeable Li-ion Battery, 605mAh
Hardware Version	: /
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, 8-DPSK for Bluetooth V4.2 (BDR/EDR) GFSK for Bluetooth V4.2 (BT LE)
Bluetooth Version	: V4.2
Antenna Description	: PIFA Antenna, 0.5dBi(Max.)
WIFI(2.4G Band)	:
Frequency Range	: 2412MHz~2472MHz
Channel Spacing	: 5MHz
Channel Number	: 13 Channel for 20MHz bandwidth(2412~2472MHz) 9 channels for 40MHz bandwidth(2422~2462MHz)
Modulation Type	: 802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: PIFA Antenna, 0.5dBi(Max.)
3G	:
Support Band	: <input checked="" type="checkbox"/> WCDMA Band I (EU-Band) <input checked="" type="checkbox"/> 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
Antenna Description	: PIFA Antenna -2.8dBi (max.) For WCDMA Band I -6.5dBi (max.) For WCDMA Band VIII
Power Class	: Level 3
LTE	:
Support Band	: <input checked="" type="checkbox"/> E-UTRA Band 1(EU-Band) <input checked="" type="checkbox"/> E-UTRA Band 3(EU-Band) <input checked="" type="checkbox"/> E-UTRA Band 7(EU-Band) <input checked="" type="checkbox"/> E-UTRA Band 8(EU-Band) <input checked="" type="checkbox"/> E-UTRA Band 20(EU-Band) <input checked="" type="checkbox"/> E-UTRA Band 28(EU-Band) <input checked="" type="checkbox"/> E-UTRA Band 41EU-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



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

Scan code to check authenticity





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  
E-UTRA Band 8: 925MHz~960MHz  
E-UTRA Band 20: 791MHz~821MHz  
E-UTRA Band 28: 758MHz~803MHz  
TDD Band : E-UTRA Band 41: 2496MHz~2690MHz  
Type Of Modulation : QPSK/16QAM  
Antenna Description : PIFA Antenna  
-1.8dBi (max.) For E-UTRA Band 1  
-5.7dBi (max.) For E-UTRA Band 3  
-5.4dBi (max.) For E-UTRA Band 7  
-5.7dBi (max.) For E-UTRA Band 8  
-4.4dBi (max.) For E-UTRA Band 20  
-13.4dBi (max.) For E-UTRA Band 28  
-5.4dBi (max.) For E-UTRA Band 41  
Power Class : Class 3  
GPS Receiver :  
Receive Frequency : 1575.42MHz  
Channel Number : 1  
Antenna Description : PIFA Antenna, 0dBi(Max.)  
GLONASS Receiver :  
Receive Frequency : 1602.5625MHz  
Channel Number : 1  
Antenna Description : PIFA Antenna, 0dBi(Max.)  
Galileo Receiver :  
Receive Frequency : 1589.74MHz  
Channel Number : 1  
Antenna Description : PIFA Antenna, 0dBi(Max.)  
BDS Receiver :  
Frequency Range : 1561.098MHz  
Channel Number : 1  
Antenna Description : PIFA Antenna, 0dBi(Max.)  
QZSS Receiver :  
Receive Frequency : 1575.42MHz  
Channel Number : 1  
Antenna Description : PIFA Antenna, 0dBi(Max.)  
SBAS Receiver :  
Receive Frequency : 1575.42MHz  
Channel Number : 1  
Antenna Description : PIFA Antenna, 0dBi(Max.)



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

Scan code to check authenticity



1.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN TIANYIN ELECTRONICS CO., LTD	Power Adapter	TPA-46050200UU	--	CE

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

1.3. External I/O

I/O Port Description	Quantity	Cable
Power Port	1	N/A

1.4. Objective

Standard Referenced	Standard Title	Standard Version
ETSI EN 301 908-1	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements; Release 15	V15.2.1 (2023-01)
ETSI EN 301 908-13	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	V13.3.1 (2024-10)
ETSI TS 136 521-1	LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing (3GPP TS 36.521-1 version 17.7.0 Release 17)	V17.7.0 (2023-07)

The objective is to determine compliance with ETSI EN 301 908-1 V15.2.1 (2023-01) & ETSI EN 301 908-13 V13.3.1 (2024-10).







## 1.5. Test Conditions

Conditions	Temperature	Voltage
Normal	21-25℃	DC 3.8V
Low extreme Temperature/Low extreme Voltage (TL/VL);	-20℃	DC 3.3V
Low extreme Temperature/High extreme Voltage (TL/VH);	-20℃	DC 4.35V
High extreme Temperature/Low extreme Voltage (TH/VL);	45℃	DC 3.3V
High extreme Temperature/High extreme Voltage (TH/VH).	45℃	DC 4.35V
Note1: For all conditions, the humidity range is: 40-75%, the pressure range is 86-106kPa. The High Voltage DC 4.35V and Low Voltage DC 3.3V was declared by manufacturer		

## 1.6. Description Of Test Mode

The following operating modes were applied for the related test items. For radiated measurement, the test was performed with EUT in X, Y, Z position and the worse case was found when EUT in Y position. All test modes were tested, only the result of the worst case was recorded in the report.

Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
	1.4	3	5	10	15	20	QPSK	16QAM	1	Part	Full	L	M	H
1	N/A	N/A	Y	/	/	Y	Y	Y	Y	Y	Y	Y	Y	Y
3	Y	/	Y	/	/	Y	Y	Y	Y	Y	Y	Y	Y	Y
7	N/A	N/A	Y	/	/	Y	Y	Y	Y	Y	Y	Y	Y	Y
8	Y	/	Y	Y	N/A	N/A	Y	Y	Y	Y	Y	Y	Y	Y
20	N/A	N/A	Y	/	/	Y	Y	Y	Y	Y	Y	Y	Y	Y
28	N/A	Y	Y	/	/	Y	Y	Y	Y	Y	Y	Y	Y	Y
41	N/A	N/A	Y	/	/	Y	Y	Y	Y	Y	Y	Y	Y	Y

Note:

- 1)The mark "Y" means that this configuration is chosen for testing.
- 2)The mark "/" means that this bandwidth is supported but is not chosen for testing.
- 3)The mark "N/A" means that this bandwidth is not supported.





### 1.7. Measurement Uncertainty (95% confidence levels, k=2)

Test Item		Uncertainty
Radio Frequency	:	$0.9 \times 10^{-4}$
Total RF Power, Conducted	:	1.0 dB
RF Power Density, Conducted	:	1.8 dB
Spurious Emissions, Conducted	:	1.8 dB
All Emissions, Radiated	:	3.1 dB
Temperature	:	0.5°C
Humidity	:	1 %
DC And Low Frequency Voltages	:	1 %

### 1.8. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.





## 2. SYSTEM TEST CONFIGURATION

### 2.1. Justification

N/A

### 2.2. EUT Exercise Software

N/A

### 2.3. Special Accessories

The special accessories were supplied by Shenzhen LCS Compliance Testing Laboratory Ltd.

### 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. Test Setup

Please refer to the test setup photo.





### 3. SUMMARY OF TEST RESULTS

Test Engineer	:	Jay Luo
Temperature/ Humidity:	:	24.7°C/ 53.2%

Reference Clause No. (ETSI EN 301 908-13)	Description of Test Items	Result					
		E-UTRA Band					
		Band 1	Band 3	Band 7	Band 8	Band 20	Band 28
4.2.2	Transmitter Maximum Output Power						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
	TL/VL	Pass	Pass	Pass	Pass	Pass	Pass
	TL/VH	Pass	Pass	Pass	Pass	Pass	Pass
	TH/VL	Pass	Pass	Pass	Pass	Pass	Pass
	TH/VH	Pass	Pass	Pass	Pass	Pass	Pass
4.2.5	Transmitter Minimum Output Power						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
	TL/VL	Pass	Pass	Pass	Pass	Pass	Pass
	TL/VH	Pass	Pass	Pass	Pass	Pass	Pass
	TH/VL	Pass	Pass	Pass	Pass	Pass	Pass
	TH/VH	Pass	Pass	Pass	Pass	Pass	Pass
4.2.3	Transmitter Spectrum Emission Mask						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
	TL/VL	Pass	Pass	Pass	Pass	Pass	Pass
	TL/VH	Pass	Pass	Pass	Pass	Pass	Pass
	TH/VL	Pass	Pass	Pass	Pass	Pass	Pass
	TH/VH	Pass	Pass	Pass	Pass	Pass	Pass
4.2.4	Transmitter Spurious Emissions						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
4.2.10	Receiver Spurious Emissions						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
4.2.6	Receiver Adjacent Channel Selectivity (ACS)						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
4.2.7	Receiver Blocking Characteristics						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
4.2.8	Receiver Spurious Response						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass



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

Scan code to check authenticity



4.2.9	Receiver Intermodulation Characteristics						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
4.2.12	Receiver Reference Sensitivity Level						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
	TL/VL	Pass	Pass	Pass	Pass	Pass	Pass
	TL/VH	Pass	Pass	Pass	Pass	Pass	Pass
	TH/VL	Pass	Pass	Pass	Pass	Pass	Pass
	TH/VH	Pass	Pass	Pass	Pass	Pass	Pass

Reference Clause No. (ETSI EN 301 908-1)	Description of Test Items	Result					
		E-UTRA Band					
		Band 1	Band 3	Band 7	Band 8	Band 20	Band 28
4.2.2	Radiated emissions (UE)						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass
4.2.4	Control and monitoring functions (UE)						
	Normal	Pass	Pass	Pass	Pass	Pass	Pass

Reference Clause No. (ETSI EN 301 908-13)	Description of Test Items	Result
		E-UTRA Band
		Band 41
4.2.2	Transmitter Maximum Output Power	
	Normal	Pass
	TL/VL	Pass
	TL/VH	Pass
	TH/VL	Pass
	TH/VH	Pass
4.2.5	Transmitter Minimum Output Power	
	Normal	Pass
	TL/VL	Pass
	TL/VH	Pass
	TH/VL	Pass
	TH/VH	Pass
4.2.3	Transmitter Spectrum Emission Mask	
	Normal	Pass
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	
	Normal	Pass
	TL/VL	Pass
	TL/VH	Pass
	TH/VL	Pass
	TH/VH	Pass
4.2.4	Transmitter Spurious Emissions	
	Normal	Pass
4.2.10	Receiver Spurious Emissions	





	Normal	Pass
4.2.6	Receiver Adjacent Channel Selectivity (ACS)	
	Normal	Pass
4.2.7	Receiver Blocking Characteristics	
	Normal	Pass
4.2.8	Receiver Spurious Response	
	Normal	Pass
4.2.9	Receiver Intermodulation Characteristics	
	Normal	Pass
4.2.12	Receiver Reference Sensitivity Level	
	Normal	Pass
	TL/VL	Pass
	TL/VH	Pass
	TH/VL	Pass
	TH/VH	Pass
4.2.2	Radiated emissions (UE)	
	Normal	Pass
4.2.4	Control and monitoring functions (UE)	
	Normal	Pass

Reference Clause No. (ETSI EN 301 908-1)	Description of Test Items	Result
		E-UTRA Band
		Band 41
4.2.2	Radiated emissions (UE)	
	Normal	Pass
4.2.4	Control and monitoring functions (UE)	
	Normal	Pass

\*\*\*Note:

**Result:** Describes test result of Test Case.

**Pass:** Test Case passed on specified conformance test platform.

**Normal(TN/VN):** Normal temperature – 25°C; Normal voltage. – DC 3.8V

**TH:** High extreme Temperature – +45°C

**VH:** High extreme Voltage – DC 4.35V

**TL:** Low extreme Temperature – -20°C

**VL:** Low extreme Voltage – DC 3.3V

**N/A:** Not applicable.

—: Not test.



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

Scan code to check authenticity





#### 4. LIST OF MEASURING EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	LTE Test Software	Tonscend	JS1120-1	N/A	N/A	N/A
2	RF Control Unit	Tonscend	JS0806-1	158060009	2024-11-08	2025-11-07
3	MXA Signal Analyzer	Agilent	N9020A	MY51250905	2024-10-08	2025-10-07
4	DC Power Supply	Agilent	E3642A	N/A	2024-10-08	2025-10-07
5	MXG Vector Signal Generator	Agilent	N5182A	MY47071151	2024-06-06	2025-06-05
6	PSG Analog Signal Generator	Agilent	E8257D	MY4520521	2024-06-06	2025-06-05
7	Temperature & Humidity Chamber	Baro	/	/	2024-06-12	2025-06-11
8	EMI Test Software	Farad	EZ	/	N/A	N/A
9	3m Full Anechoic Chamber	MRDIANZI	FAC-3M	MR009	2022-08-17	2025-08-16
10	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
11	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2024-07-13	2027-07-12
12	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2024-08-03	2027-08-02
13	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2024-07-13	2027-07-12
14	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2024-07-13	2027-07-12
15	Broadband Preamplifier	SCHWARZBECK	BBV9719	9719-025	2024-07-30	2025-07-29
16	EMI Test Receiver	R&S	ESR 7	101181	2024-06-06	2025-06-05
17	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2024-06-06	2025-06-05
18	Low-frequency amplifier	SchwarzZBECK	BBV9745	00253	2024-10-08	2025-10-07
19	High-frequency amplifier	JS Denki Pte	PA0118-43	JSPA21009	2024-10-08	2025-10-07
20	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	103818	2024-06-06	2025-06-05
21	RF Filter	Micro-Tronics	BRC50718	017	2024-10-08	2025-10-07
22	RF Filter	Micro-Tronics	BRC50719	011	2024-10-08	2025-10-07
23	RF Filter	Micro-Tronics	BRC50720	011	2024-10-08	2025-10-07
24	RF Filter	Micro-Tronics	BRC50721	013	2024-10-08	2025-10-07
25	RF Filter	Micro-Tronics	BRM50702	195	2024-06-06	2025-06-05
26	6dB Attenuator	/	100W/6dB	1172040	2024-06-06	2025-06-05
27	3dB Attenuator	/	2N-3dB	/	2024-10-08	2025-10-07





## 5. PHOTOGRAPHS OF TEST SETUP

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

## 6. PHOTOGRAPHS OF THE EUT

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





## Annex A

### Transmitter maximum output power

The Conducted Power Measurement Result for LTE Band					
Test Result for LTE Band 1					
Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Limit (dBm)
		RB Size	RB Offset		
5MHz	Low Range	1	1RB#0	22.35	20.3~25.7
			8RB#0	22.33	20.3~25.7
	Mid Range	1	1RB#0	22.46	20.3~25.7
			8RB#0	22.48	20.3~25.7
	High Range	1	1RB#24	22.49	20.3~25.7
			8RB#17	22.49	20.3~25.7
20MHz	Low Range	1	1RB#0	22.07	20.3~25.7
			18RB#0	22.03	20.3~25.7
	Mid Range	1	1RB#0	22.02	20.3~25.7
			18RB#0	22.24	20.3~25.7
	High Range	1	1RB#99	22.22	20.3~25.7
			18RB#82	22.29	20.3~25.7

The Conducted Power Measurement Result for LTE Band					
Test Result for LTE Band 3					
Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Limit (dBm)
		RB Size	RB Offset		
1.4MHz	Low Range	1	1RB#0	22.58	20.3~25.7
	Mid Range	1	1RB#0	22.46	20.3~25.7
	High Range	1	1RB#0	22.31	20.3~25.7
			5RB#0	22.37	20.3~25.7
	Low Range	1	1RB#0	22.53	20.3~25.7
5MHz	Low Range	1	1RB#24	22.45	20.3~25.7
			1RB#0	22.40	20.3~25.7
	Mid Range	1	1RB#24	22.40	20.3~25.7
			1RB#0	22.36	20.3~25.7
	High Range	1	1RB#24	22.27	20.3~25.7
			8RB#0	22.35	20.3~25.7
20MHz	Low Range	1	1RB#0	22.26	20.3~25.7
			1RB#99	22.12	20.3~25.7
	Mid Range	1	1RB#0	22.01	20.3~25.7
			1RB#99	22.29	20.3~25.7
	High Range	1	1RB#0	22.30	20.3~25.7
			1RB#99	21.94	20.3~25.7
			18RB#0	22.33	20.3~25.7



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

Scan code to check authenticity



## The Conducted Power Measurement Result for LTE Band

### Test Result for LTE Band 7

Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Limit (dBm)
		RB Size	RB Offset		
5MHz	Low Range	1	1RB#0	22.22	20.3~25.7
			1RB#24	22.18	20.3~25.7
	Mid Range	1	1RB#0	23.41	20.3~25.7
			1RB#24	23.37	20.3~25.7
	High Range	1	1RB#0	22.20	20.3~25.7
			1RB#24	22.12	20.3~25.7
20MHz	Low Range	1	1RB#0	22.07	20.3~25.7
			1RB#99	22.14	20.3~25.7
	Mid Range	1	1RB#0	22.60	20.3~25.7
			1RB#99	23.20	20.3~25.7
	High Range	1	1RB#0	22.05	20.3~25.7
			1RB#99	22.07	20.3~25.7
			18RB#0	22.18	20.3~25.7

## The Conducted Power Measurement Result for LTE Band

### Test Result for LTE Band 8

Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Limit (dBm)
		RB Size	RB Offset		
1.4MHz	Low Range	1	1RB#0	24.20	20.3~25.7
	Mid Range	1	1RB#0	24.23	20.3~25.7
	High Range	1	1RB#0	24.39	20.3~25.7
			5RB#0	24.41	20.3~25.7
5MHz	Low Range	1	1RB#0	24.23	20.3~25.7
			1RB#24	24.29	20.3~25.7
	Mid Range	1	1RB#0	24.14	20.3~25.7
			1RB#24	24.15	20.3~25.7
	High Range	1	1RB#0	24.39	20.3~25.7
			1RB#24	24.29	20.3~25.7
10MHz	Low Range	1	1RB#0	24.28	20.3~25.7
			1RB#49	24.35	20.3~25.7
	Mid Range	1	1RB#0	24.35	20.3~25.7
			1RB#49	24.20	20.3~25.7
	High Range	1	1RB#0	24.42	20.3~25.7
			1RB#49	24.30	20.3~25.7
			12RB#0	24.41	20.3~25.7



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

Scan code to check authenticity



## The Conducted Power Measurement Result for LTE Band

### Test Result for LTE Band 20

Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Limit (dBm)
		RB Size	RB Offset		
5MHz	Low Range	1	1RB#0	24.92	20.3~25.0
			1RB#24	24.97	20.3~25.0
	Mid Range	1	1RB#0	24.80	20.3~25.0
			1RB#24	24.60	20.3~25.0
	High Range	1	1RB#0	24.92	20.3~25.0
			1RB#24	24.88	20.3~25.0
20MHz	Low Range	1	1RB#0	24.66	20.3~25.0
			1RB#99	24.74	20.3~25.0
	Mid Range	1	1RB#0	24.68	20.3~25.0
			1RB#99	24.44	20.3~25.0
	High Range	1	1RB#0	24.58	20.3~25.0
			1RB#99	24.55	20.3~25.0
			18RB#0	24.73	20.3~25.0

## The Conducted Power Measurement Result for LTE Band

### Test Result for LTE Band 28

Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Limit (dBm)
		RB Size	RB Offset		
3MHz	Low Range	1	1RB#0	24.84	19.8~25.0
			4RB#0	24.90	19.8~25.0
	Mid Range	1	1RB#0	24.74	19.8~25.0
			4RB#0	24.62	19.8~25.0
	High Range	1	1RB#14	24.77	19.8~25.0
			4RB#11	24.77	19.8~25.0
5MHz	Low Range	1	1RB#0	24.78	19.8~25.0
			8RB#0	24.71	19.8~25.0
	Mid Range	1	1RB#0	24.60	19.8~25.0
			8RB#0	24.61	19.8~25.0
	High Range	1	1RB#24	24.72	19.8~25.0
			8RB#17	24.76	19.8~25.0
20MHz	Low Range	1	1RB#0	24.50	19.8~25.0
			18RB#0	24.35	19.8~25.0
	Mid Range	1	1RB#0	24.37	19.8~25.0
			18RB#0	24.36	19.8~25.0
	High Range	1	1RB#99	24.49	19.8~25.0
			18RB#82	24.57	19.8~25.0



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

Scan code to check authenticity



The Conducted Power Measurement Result for LTE Band					
Test Result for LTE Band 41					
Channel Bandwidth	Channel	RB Allocation		Average Power (dBm, QPSK)	Limit (dBm)
		RB Size	RB Offset		
5MHz	Low Range	1	1RB#0	22.70	20.3~25.7
			1RB#24	22.71	20.3~25.7
	Mid Range	1	1RB#0	22.09	20.3~25.7
			1RB#24	22.07	20.3~25.7
	High Range	1	1RB#0	23.04	20.3~25.7
			1RB#24	23.08	20.3~25.7
			8RB#0	22.90	20.3~25.7
			1RB#0	22.52	20.3~25.7
20MHz	Low Range	1	1RB#99	22.46	20.3~25.7
			1RB#0	21.99	20.3~25.7
	Mid Range	1	1RB#99	21.95	20.3~25.7
			1RB#0	22.80	20.3~25.7
	High Range	1	1RB#99	22.95	20.3~25.7
			18RB#0	22.82	20.3~25.7







## Annex of Radiated spurious emission

### Radiated spurious emissions - MS allocated a channel(Worst Case)

LTE Band 1(5MHz, RB allocation=25): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.33	Horizontal	-75.63	-36.00	Pass
994.13	H	-76.88	-36.00	
3902.50	H	-64.41	-30.00	
5851.14	H	-57.01	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.33	Vertical	-79.43	-36.00	Pass
843.20	V	-75.10	-36.00	
3904.02	V	-70.35	-30.00	
5855.33	V	-59.98	-30.00	

LTE Band 1(5MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.18	Horizontal	-75.09	-36.00	Pass
975.48	H	-80.61	-36.00	
3902.35	H	-64.80	-30.00	
5853.01	H	-56.48	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.90	Vertical	-76.58	-36.00	Pass
833.31	V	-72.01	-36.00	
3902.31	V	-61.84	-30.00	
5854.18	V	-50.48	-30.00	





LTE Band 1(20MHz, RB allocation=100): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.84	Horizontal	-72.83	-36.00	Pass
988.20	H	-78.79	-36.00	
3902.45	H	-67.94	-30.00	
5851.84	H	-60.44	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.07	Vertical	-71.03	-36.00	Pass
772.08	V	-76.86	-36.00	
3905.55	V	-68.24	-30.00	
5852.45	V	-55.80	-30.00	

LTE Band 1(20MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.30	Horizontal	-71.97	-36.00	Pass
910.93	H	-70.23	-36.00	
3905.62	H	-60.80	-30.00	
5853.40	H	-52.13	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.75	Vertical	-75.30	-36.00	Pass
917.42	V	-74.38	-36.00	
3903.63	V	-63.83	-30.00	
5855.90	V	-60.35	-30.00	





LTE Band 3(1.4MHz, RB allocation=6): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.03	Horizontal	-78.68	-36.00	Pass
963.51	H	-71.86	-36.00	
3505.81	H	-65.03	-30.00	
5252.16	H	-52.35	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.67	Vertical	-71.00	-36.00	Pass
837.18	V	-80.59	-36.00	
3500.22	V	-65.82	-30.00	
5252.20	V	-60.56	-30.00	

LTE Band 3(1.4MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.76	Horizontal	-78.18	-36.00	Pass
795.10	H	-75.37	-36.00	
3501.69	H	-68.39	-30.00	
5250.23	H	-57.30	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.49	Vertical	-71.69	-36.00	Pass
816.50	V	-76.33	-36.00	
3503.43	V	-67.27	-30.00	
5252.23	V	-60.32	-30.00	





LTE Band 3(5MHz, RB allocation=25): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.67	Horizontal	-78.40	-36.00	Pass
796.11	H	-71.87	-36.00	
3502.30	H	-60.35	-30.00	
5250.59	H	-53.24	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.73	Vertical	-71.01	-36.00	Pass
755.28	V	-72.30	-36.00	
3502.92	V	-60.19	-30.00	
5250.96	V	-53.29	-30.00	

LTE Band 3(5MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.96	Horizontal	-79.29	-36.00	Pass
967.88	H	-75.09	-36.00	
3505.93	H	-60.67	-30.00	
5250.35	H	-55.41	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.63	Vertical	-70.88	-36.00	Pass
722.91	V	-77.63	-36.00	
3502.24	V	-61.71	-30.00	
5251.12	V	-52.96	-30.00	





LTE Band 3(20MHz, RB allocation=100): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.19	Horizontal	-75.07	-36.00	Pass
792.25	H	-76.80	-36.00	
3501.78	H	-67.86	-30.00	
5251.86	H	-57.38	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.13	Vertical	-70.70	-36.00	Pass
863.44	V	-73.67	-36.00	
3502.15	V	-65.88	-30.00	
5250.00	V	-59.97	-30.00	

LTE Band 3(20MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
52.21	Horizontal	-72.63	-36.00	Pass
765.98	H	-76.55	-36.00	
3505.56	H	-66.16	-30.00	
5255.78	H	-56.87	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.65	Vertical	-70.69	-36.00	Pass
889.00	V	-79.60	-36.00	
3501.95	V	-65.42	-30.00	
5254.98	V	-50.03	-30.00	





LTE Band 7(5MHz, RB allocation=25): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.69	Horizontal	-76.59	-36.00	Pass
947.63	H	-73.48	-36.00	
5070.15	H	-68.85	-30.00	
7686.72	H	-58.04	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.89	Vertical	-70.74	-36.00	Pass
829.89	V	-73.59	-36.00	
5071.77	V	-60.69	-30.00	
7689.01	V	-52.22	-30.00	

LTE Band 7(5MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.14	Horizontal	-78.07	-36.00	Pass
843.92	H	-79.26	-36.00	
5073.15	H	-69.82	-30.00	
7689.41	H	-59.16	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.64	Vertical	-75.14	-36.00	Pass
856.29	V	-71.92	-36.00	
5070.23	V	-63.25	-30.00	
7690.97	V	-57.05	-30.00	







LTE Band 7(20MHz, RB allocation=100): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.28	Horizontal	-79.89	-36.00	Pass
936.77	H	-76.15	-36.00	
5070.45	H	-63.99	-30.00	
7689.55	H	-56.81	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.13	Vertical	-75.87	-36.00	Pass
742.94	V	-77.93	-36.00	
5073.05	V	-65.02	-30.00	
7685.64	V	-58.30	-30.00	

LTE Band 7(20MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.74	Horizontal	-74.40	-36.00	Pass
723.72	H	-76.50	-36.00	
5072.89	H	-63.22	-30.00	
7690.50	H	-59.34	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.03	Vertical	-70.94	-36.00	Pass
834.60	V	-70.49	-36.00	
5071.64	V	-64.83	-30.00	
7690.53	V	-52.66	-30.00	





LTE Band 8(1.4MHz, RB allocation=6): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.81	Horizontal	-75.92	-36.00	Pass
857.53	H	-78.09	-36.00	
1790.52	H	-62.72	-30.00	
2694.54	H	-50.37	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.33	Vertical	-78.46	-36.00	Pass
892.32	V	-72.98	-36.00	
1790.59	V	-61.85	-30.00	
2690.15	V	-57.02	-30.00	

LTE Band 8(1.4MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.81	Horizontal	-72.50	-36.00	Pass
901.05	H	-79.96	-36.00	
1791.70	H	-70.49	-30.00	
2691.43	H	-51.64	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.26	Vertical	-72.57	-36.00	Pass
985.40	V	-75.83	-36.00	
1797.86	V	-70.75	-30.00	
2692.19	V	-59.15	-30.00	





LTE Band 8(5MHz, RB allocation=25): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.12	Horizontal	-70.87	-36.00	Pass
983.46	H	-74.87	-36.00	
1797.41	H	-65.88	-30.00	
2692.80	H	-54.91	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.24	Vertical	-75.44	-36.00	Pass
749.98	V	-70.43	-36.00	
1797.52	V	-70.74	-30.00	
2693.66	V	-58.94	-30.00	

LTE Band 8(5MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.43	Horizontal	-72.11	-36.00	Pass
962.17	H	-78.50	-36.00	
1790.05	H	-62.01	-30.00	
2695.65	H	-51.40	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
55.38	Vertical	-78.55	-36.00	Pass
800.58	V	-76.66	-36.00	
1794.96	V	-69.61	-30.00	
2694.67	V	-56.46	-30.00	





LTE Band 8(10MHz, RB allocation=50): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.83	Horizontal	-78.83	-36.00	Pass
882.94	H	-72.86	-36.00	
1795.89	H	-60.26	-30.00	
2695.96	H	-60.37	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.16	Vertical	-76.82	-36.00	Pass
1000.33	V	-77.75	-36.00	
1796.05	V	-62.08	-30.00	
2691.14	V	-53.70	-30.00	

LTE Band 8(10MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.10	Horizontal	-74.71	-36.00	Pass
917.35	H	-77.98	-36.00	
1797.96	H	-67.71	-30.00	
2691.68	H	-55.67	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.30	Vertical	-77.71	-36.00	Pass
776.76	V	-70.85	-36.00	
1792.38	V	-67.35	-30.00	
2691.71	V	-58.41	-30.00	





LTE Band 20(5MHz, RB allocation=25): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.09	Horizontal	-80.01	-36.00	Pass
878.11	H	-73.09	-36.00	
1695.55	H	-64.38	-30.00	
2542.28	H	-59.18	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
52.96	Vertical	-75.96	-36.00	Pass
788.56	V	-73.03	-36.00	
1694.14	V	-69.29	-30.00	
2541.87	V	-54.74	-30.00	

LTE Band 20(5MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
52.86	Horizontal	-79.78	-36.00	Pass
739.47	H	-70.56	-36.00	
1692.31	H	-61.47	-30.00	
2543.24	H	-50.29	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.89	Vertical	-74.26	-36.00	Pass
740.55	V	-77.95	-36.00	
1690.07	V	-69.44	-30.00	
2540.39	V	-56.73	-30.00	





LTE Band 20(20MHz, RB allocation=100): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.95	Horizontal	-74.51	-36.00	Pass
768.86	H	-75.38	-36.00	
1690.54	H	-62.13	-30.00	
2543.03	H	-58.37	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.36	Vertical	-70.42	-36.00	Pass
947.97	V	-79.65	-36.00	
1695.25	V	-66.56	-30.00	
2540.61	V	-60.17	-30.00	

LTE Band 20(20MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.15	Horizontal	-75.49	-36.00	Pass
841.14	H	-76.46	-36.00	
1692.78	H	-67.00	-30.00	
2540.40	H	-54.15	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
52.92	Vertical	-74.21	-36.00	Pass
795.55	V	-72.23	-36.00	
1690.20	V	-60.41	-30.00	
2540.22	V	-55.43	-30.00	







LTE Band 28(3MHz, RB allocation=15): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.81	Horizontal	-79.00	-36.00	Pass
973.22	H	-75.15	-36.00	
1447.18	H	-61.10	-30.00	
2179.76	H	-56.61	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.00	Vertical	-77.82	-36.00	Pass
778.38	V	-77.97	-36.00	
1453.14	V	-64.29	-30.00	
2170.61	V	-58.95	-30.00	

LTE Band 28(3MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.18	Horizontal	-72.28	-36.00	Pass
957.21	H	-72.25	-36.00	
1446.71	H	-69.99	-30.00	
2173.20	H	-55.28	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
57.64	Vertical	-77.51	-36.00	Pass
990.10	V	-77.02	-36.00	
1453.13	V	-69.17	-30.00	
2173.87	V	-52.36	-30.00	





LTE Band 28(5MHz, RB allocation=25): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.45	Horizontal	-71.40	-36.00	Pass
994.51	H	-71.33	-36.00	
1447.52	H	-68.33	-30.00	
2179.90	H	-51.09	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.78	Vertical	-79.50	-36.00	Pass
997.70	V	-78.52	-36.00	
1447.82	V	-68.26	-30.00	
2175.62	V	-53.07	-30.00	

LTE Band 28(5MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
59.12	Horizontal	-80.51	-36.00	Pass
967.43	H	-73.34	-36.00	
1446.94	H	-61.41	-30.00	
2171.61	H	-50.25	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.45	Vertical	-75.25	-36.00	Pass
707.20	V	-76.07	-36.00	
1450.59	V	-70.95	-30.00	
2177.27	V	-55.29	-30.00	





LTE Band 28(20MHz, RB allocation=100): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.28	Horizontal	-71.26	-36.00	Pass
955.24	H	-73.59	-36.00	
1446.01	H	-67.05	-30.00	
2171.06	H	-52.92	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.44	Vertical	-79.59	-36.00	Pass
791.65	V	-76.12	-36.00	
1448.97	V	-65.24	-30.00	
2175.56	V	-56.04	-30.00	

LTE Band 28(20MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.49	Horizontal	-74.19	-36.00	Pass
722.38	H	-72.91	-36.00	
1447.13	H	-61.39	-30.00	
2173.21	H	-56.05	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
50.97	Vertical	-72.14	-36.00	Pass
736.24	V	-72.92	-36.00	
1453.17	V	-60.70	-30.00	
2175.87	V	-55.91	-30.00	





LTE Band 41(5MHz, RB allocation=25): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
52.93	Horizontal	-75.01	-36.00	Pass
760.87	H	-70.80	-36.00	
4806.23	H	-70.30	-30.00	
7255.00	H	-55.72	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.89	Vertical	-79.01	-36.00	Pass
982.56	V	-75.98	-36.00	
4804.81	V	-69.66	-30.00	
7258.68	V	-60.68	-30.00	

LTE Band 41(5MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
58.25	Horizontal	-74.62	-36.00	Pass
823.67	H	-77.59	-36.00	
4808.92	H	-67.30	-30.00	
7257.90	H	-54.34	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.18	Vertical	-75.09	-36.00	Pass
997.82	V	-80.77	-36.00	
4804.32	V	-67.35	-30.00	
7257.56	V	-51.06	-30.00	





LTE Band 41(20MHz, RB allocation=100): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
60.92	Horizontal	-79.81	-36.00	Pass
871.89	H	-70.58	-36.00	
4806.15	H	-62.43	-30.00	
7258.59	H	-59.46	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
51.80	Vertical	-74.41	-36.00	Pass
763.77	V	-77.48	-36.00	
4805.02	V	-62.88	-30.00	
7255.91	V	-50.45	-30.00	

LTE Band 41(20MHz, RB allocation=1): Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
53.83	Horizontal	-80.81	-36.00	Pass
996.25	H	-80.52	-36.00	
4804.45	H	-66.39	-30.00	
7258.93	H	-58.76	-30.00	
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
56.58	Vertical	-70.80	-36.00	Pass
901.23	V	-72.94	-36.00	
4805.25	V	-61.10	-30.00	
7254.67	V	-54.86	-30.00	





## Radiated spurious emissions-MS in idle mode (Worst Case)

LTE Band 1: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
52.87	Horizontal	-78.22	-57.00	Pass
944.08	H	-76.20	-57.00	
1791.26	H	-66.89	-47.00	
2709.08	H	-53.27	-47.00	
3612.22	H	-56.38	-47.00	
LTE Band 1: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
54.65	Vertical	-76.70	-57.00	Pass
863.30	V	-78.73	-57.00	
1790.72	V	-68.79	-47.00	
2704.80	V	-59.74	-47.00	
3618.26	V	-56.75	-47.00	

Note: The report only recorded the worst result.

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

